

LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 6

2024

Bate Stamp Numbers

01222509 – 01224454

Prepared for

**Department of the Army
Longhorn Army Ammunition Plant**

1976–2024

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

VOLUME 6

2024

A. Title: Report (Cont'd) – Draft Final Ninth Annual Remedial Action Operation Report (September 2022–August 2023), LHAAP-35A (58) Shops Area, Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas, February 2024

 Author(s): Department of the Army

 Recipient: Environmental Protection Agency and Texas Commission on Environmental Quality

 Date: February 6, 2024

 Bate Stamp: 01222509–01224454

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.245	8.245	(1.075)	37189	5.00000	4.83
64 Styrene	104	8.267	8.267	(1.078)	62411	5.00000	4.84
66 Bromoform	173	8.414	8.414	(1.097)	16801	5.00000	4.63
67 Isopropylbenzene	105	8.563	8.563	(1.117)	85440	5.00000	4.86
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	29807	5.00000	5.24
\$ 69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	32501	5.00000	5.43
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356340	50.0000	
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	20685	5.00000	5.21(M)
73 n-Propylbenzene	91	8.916	8.916	(0.923)	97603	5.00000	4.94
74 Bromobenzene	156	8.811	8.811	(0.912)	28887	5.00000	4.94
75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	72501	5.00000	4.97
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	65973	5.00000	5.09
77 4-Chlorotoluene	91	9.077	9.077	(0.939)	75073	5.00000	5.08
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	59375	5.00000	4.97
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	75723	5.00000	4.93
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	77577	5.00000	4.88
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	69666	5.00000	4.89
83 1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	49954	5.00000	5.14
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	52655	5.00000	4.97
86 Benzyl Chloride	91	9.816	9.816	(1.280)	35254	5.00000	5.95
87 n-Butylbenzene	91	9.999	9.999	(1.035)	54831	5.00000	5.63
88 1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	50895	5.00000	5.09
89 1,2-Dibromo-3-Chloropropane	155	10.670	10.670	(1.104)	4911	5.00000	5.49
90 1,2,4-Trichlorobenzene	180	11.345	11.345	(1.174)	31873	5.00000	5.05
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	13454	5.00000	4.81
92 Naphthalene	128	11.551	11.551	(1.196)	72748	5.00000	5.06
93 1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	30274	5.00000	5.01
M 94 1,2-Dichloroethylene (total)	96				41740	10.0000	
M 95 Xylenes (total)	106				110472	15.0000	
141 Cyclohexane	56	4.118	4.118	(0.986)	19859	5.00000	5.52(H)
138 Freon TF	101	1.913	1.913	(0.458)	14845	5.00000	4.48
147 Methylcyclohexane	55	5.388	5.388	(1.085)	38650	5.00000	4.60(M)
146 Methyl Acetate	43	2.236	2.236	(0.535)	8968	5.00000	4.42
148 Tert-Butyl alcohol	59	2.431	2.431	(0.582)	30525	100.000	97.81
149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	16518	100.000	101.35(T)

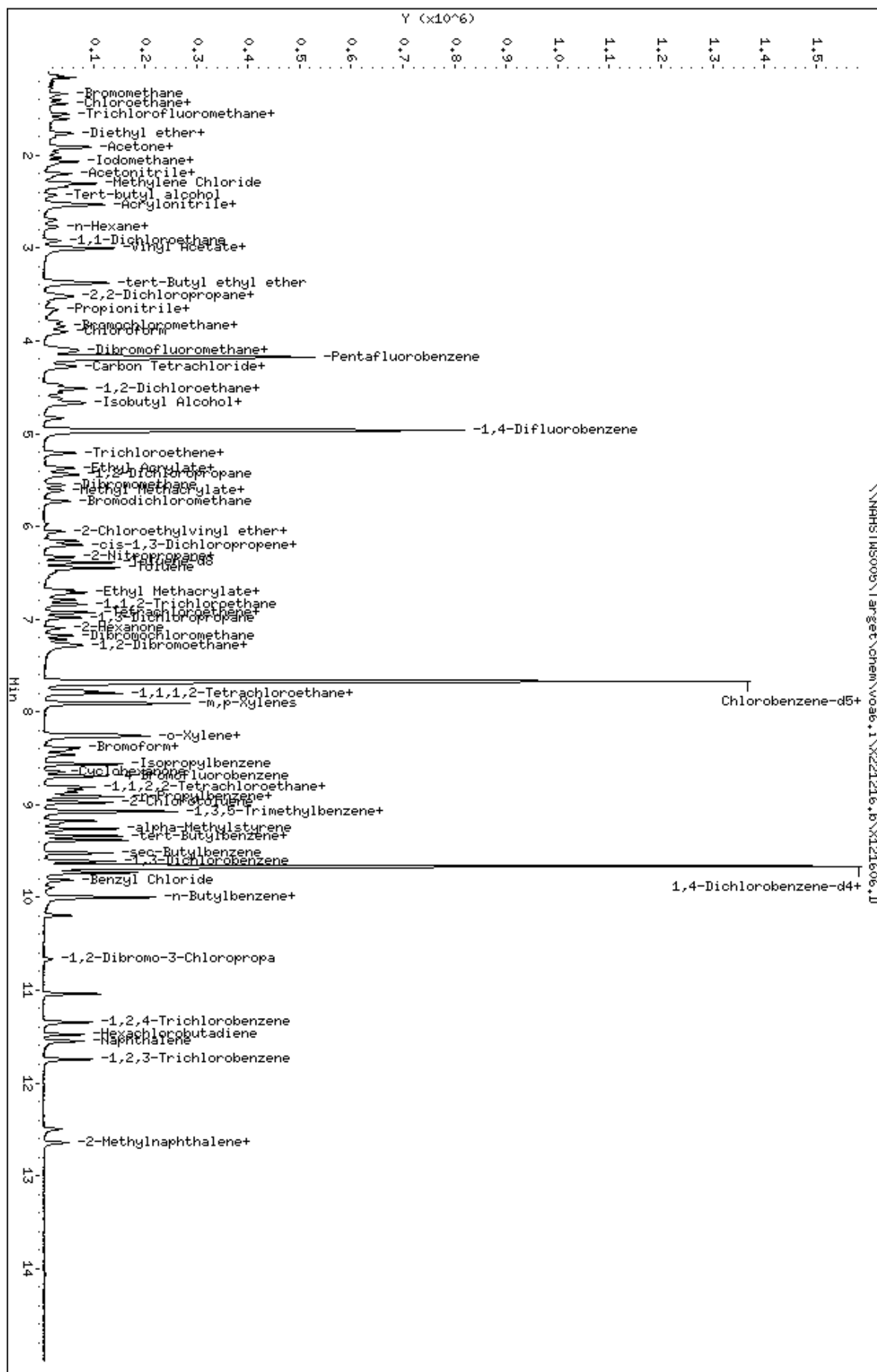
QC Flag Legend

T - Target compound detected outside RT window.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.



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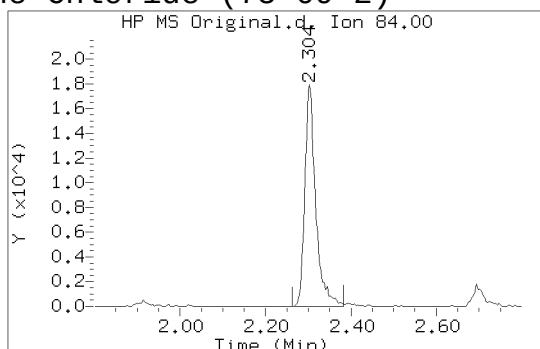


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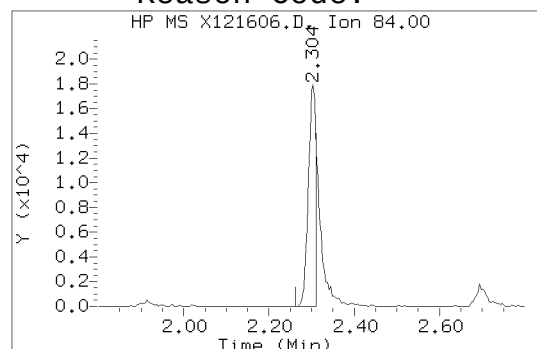
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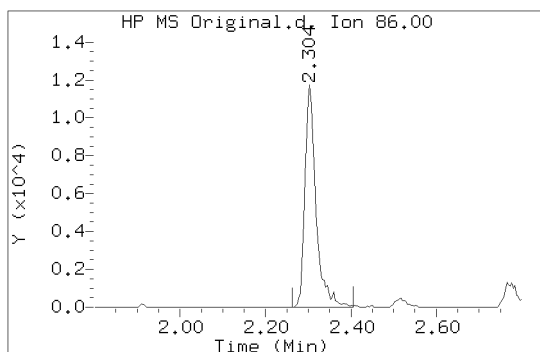
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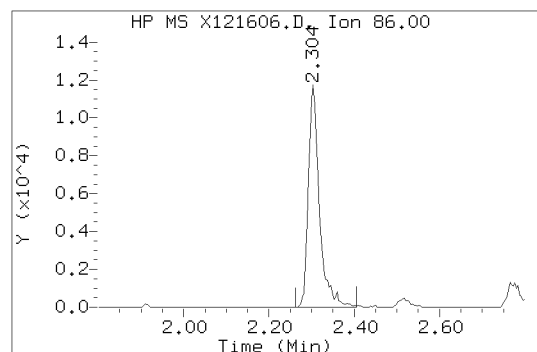
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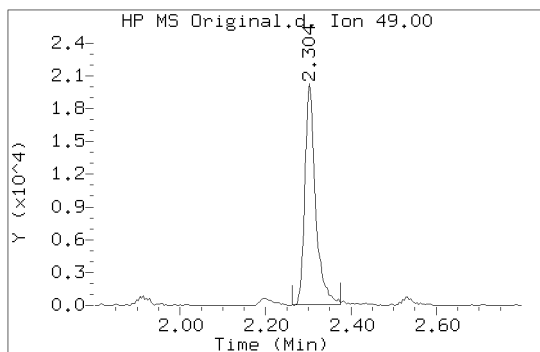
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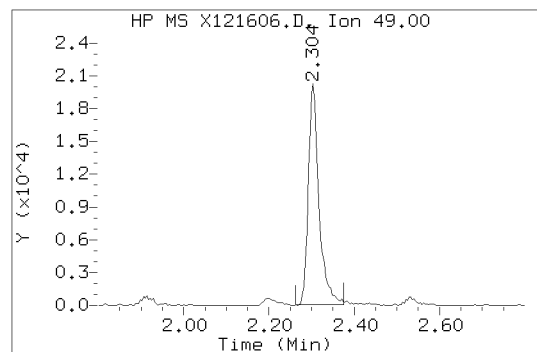
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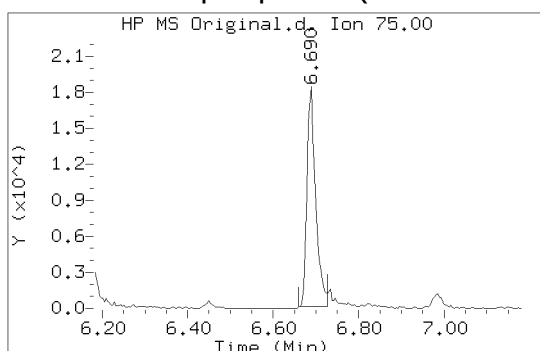
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trans-1,3-Dichloropropene (10061-02-6)

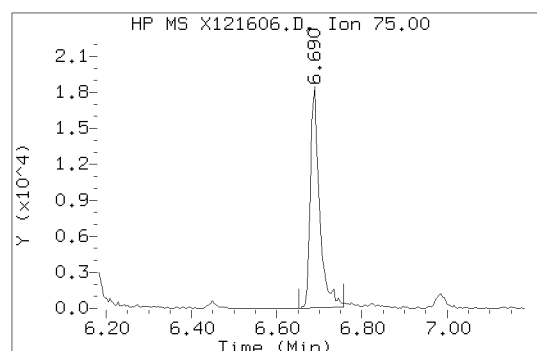
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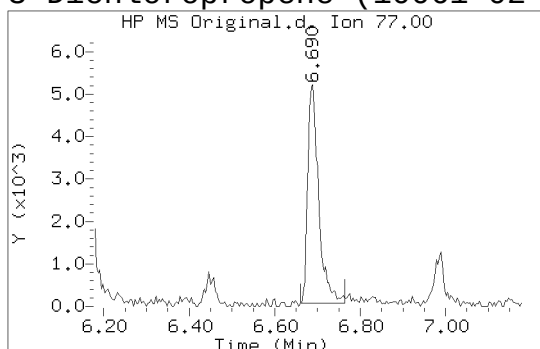


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trans-1,3-Dichloropropene (10061-02-6)

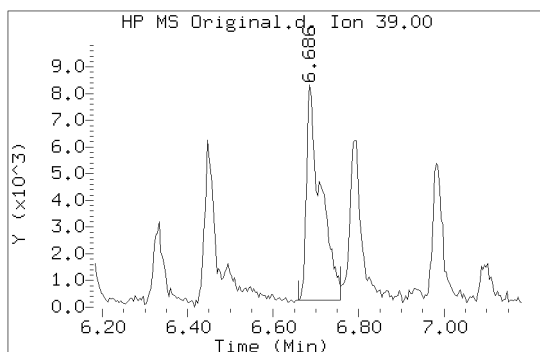
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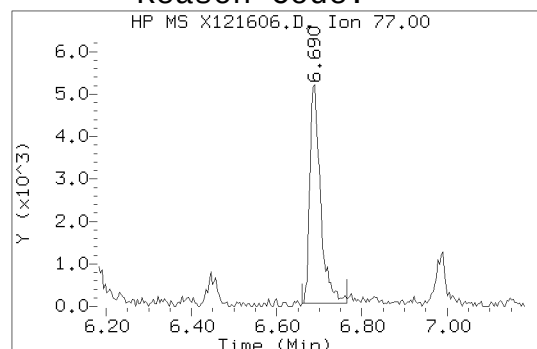
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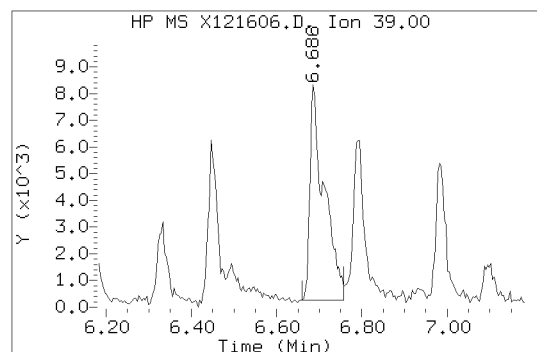
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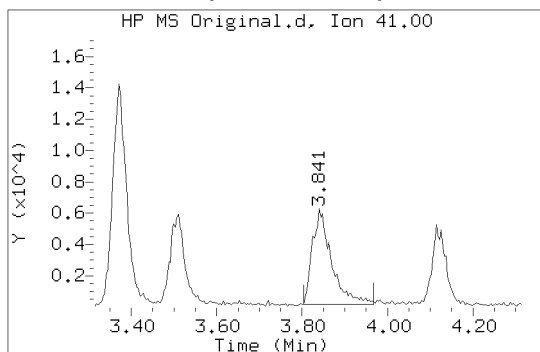
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Methacrylonitrile (126-98-7)

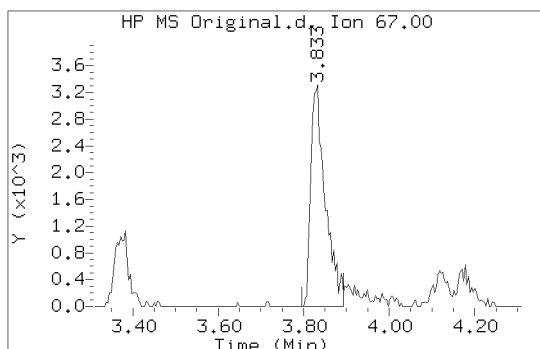
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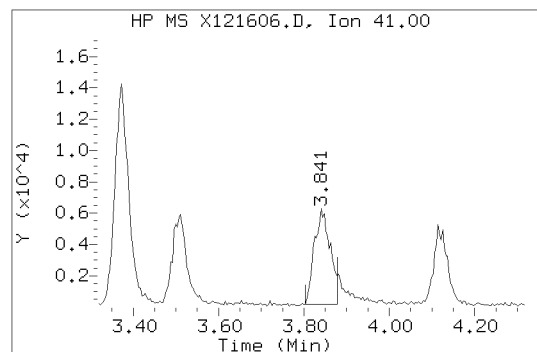
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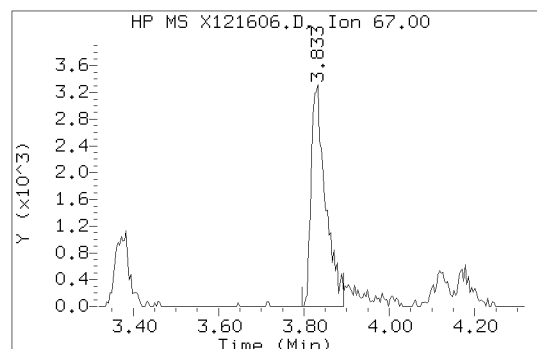
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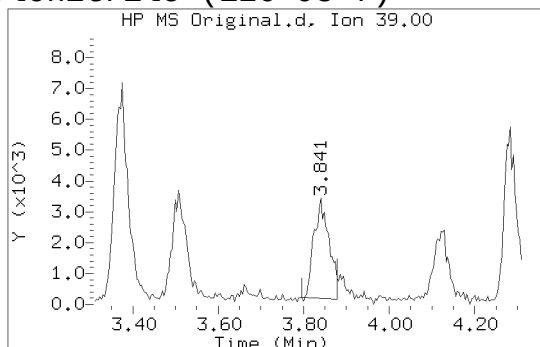


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Methacrylonitrile (126-98-7)

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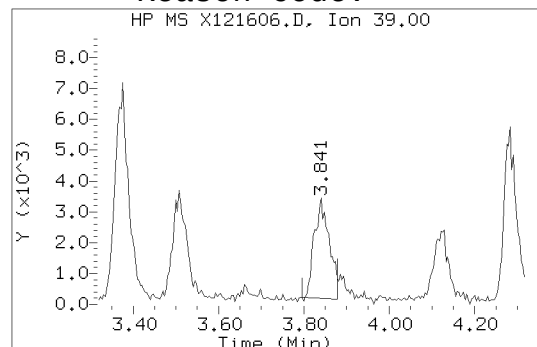
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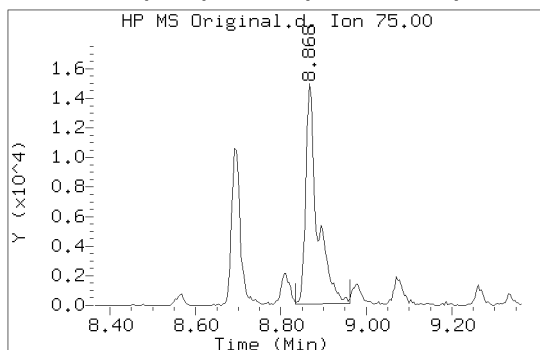
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1,2,3-Trichloropropane (96-18-4)

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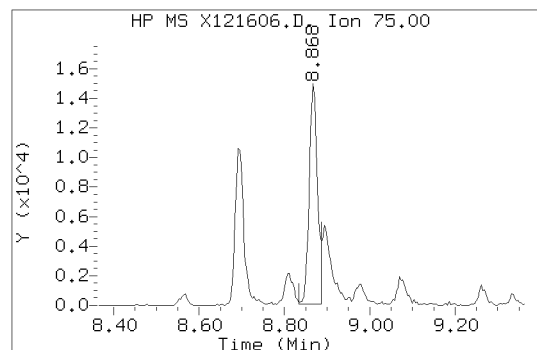
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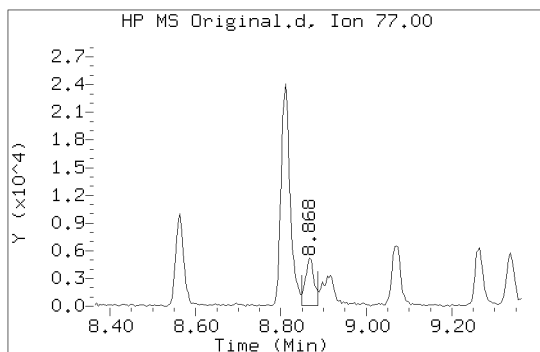
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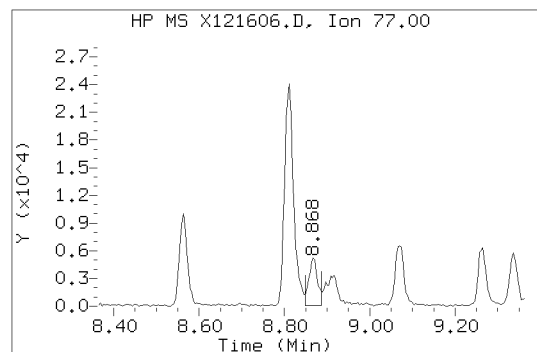
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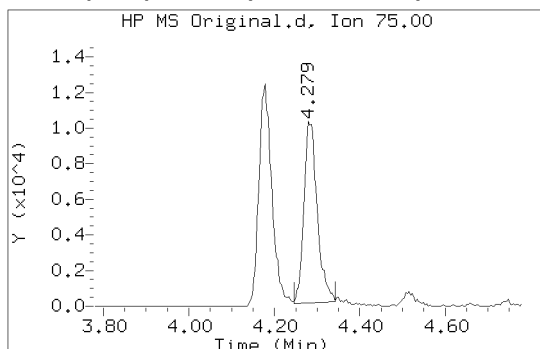
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1,1-Dichloropropene (563-58-6)

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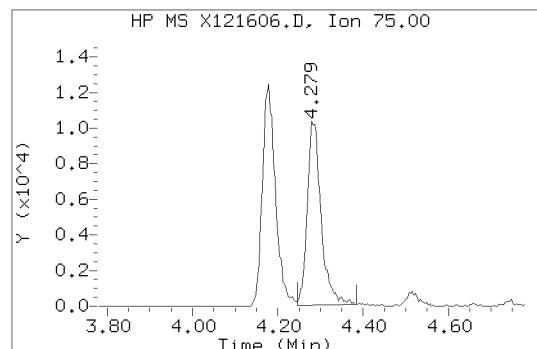
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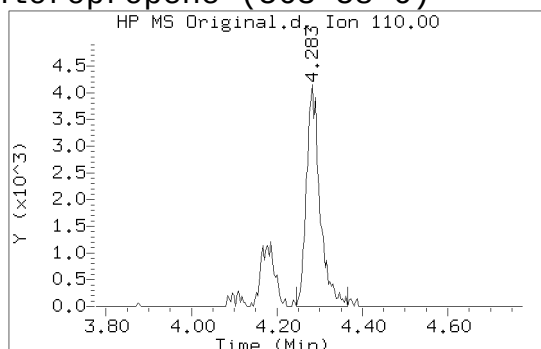


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1,1-Dichloropropene (563-58-6)

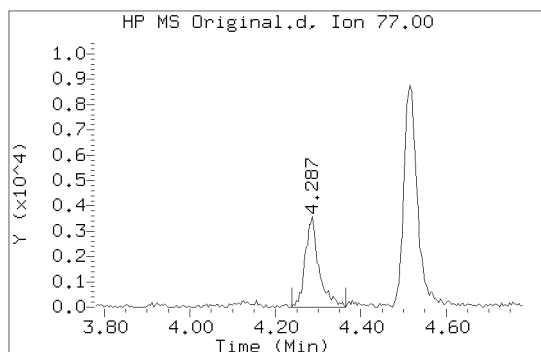
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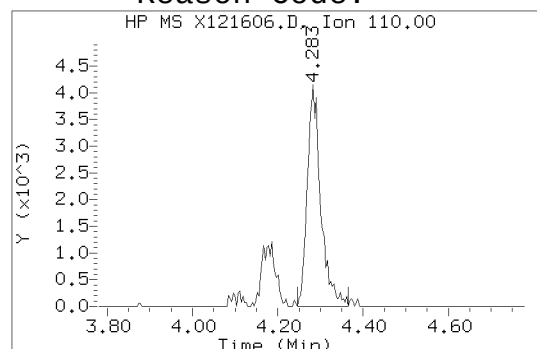
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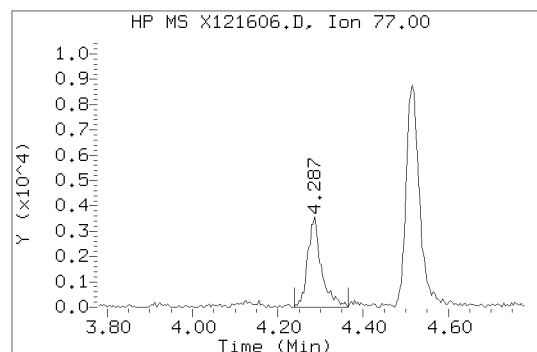
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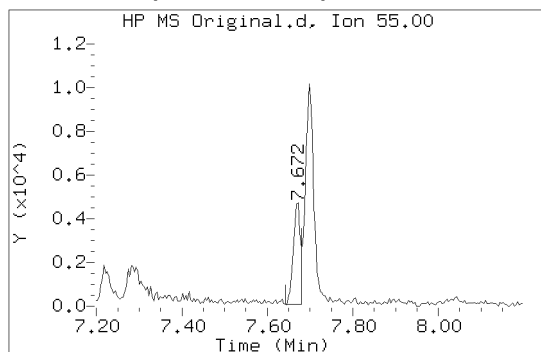


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1-Chlorohexane (544-10-5)

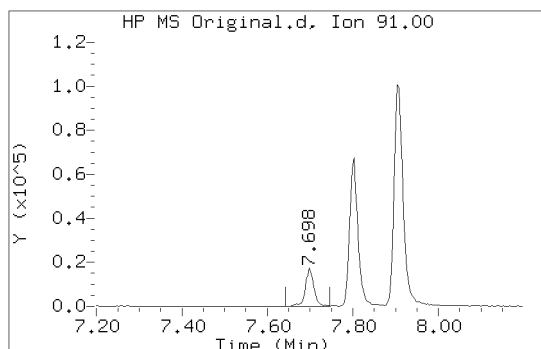
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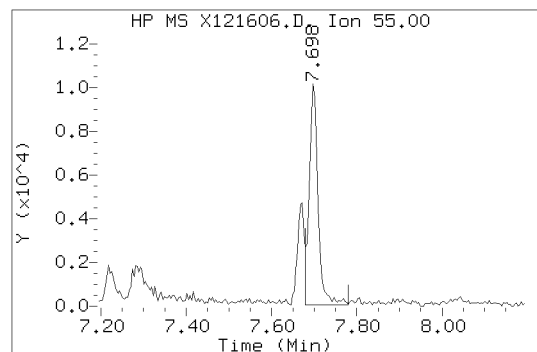
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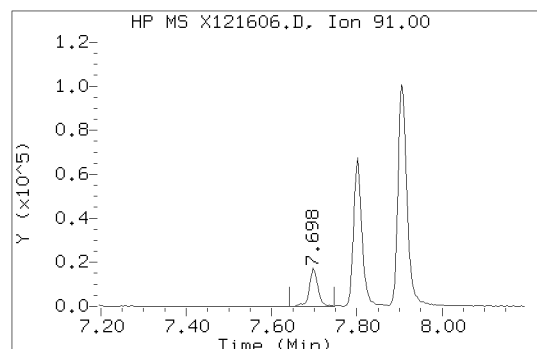
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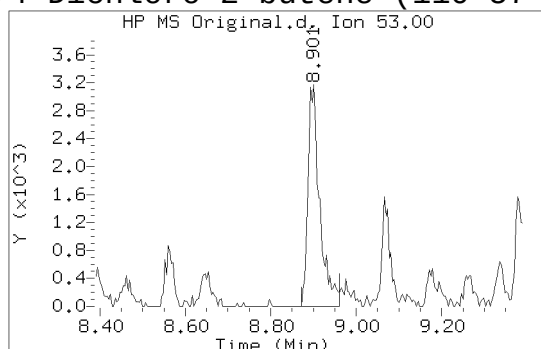
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trans-1,4-Dichloro-2-butene (110-57-6)

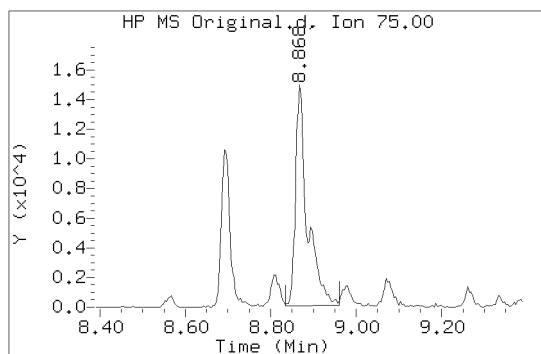
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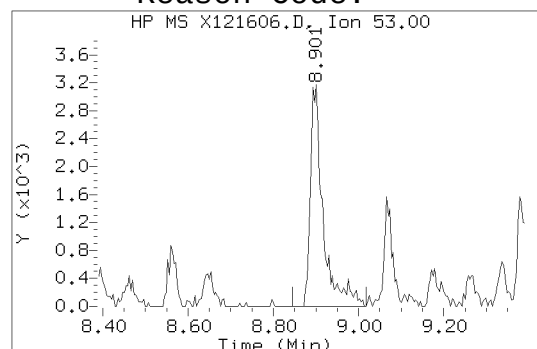
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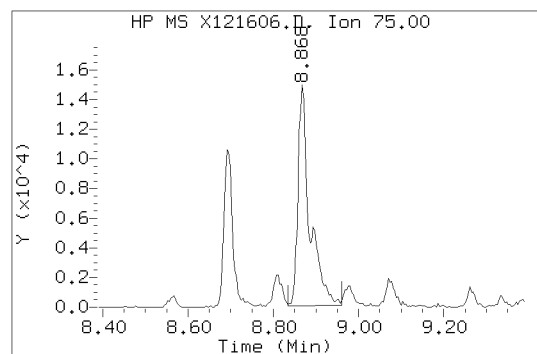
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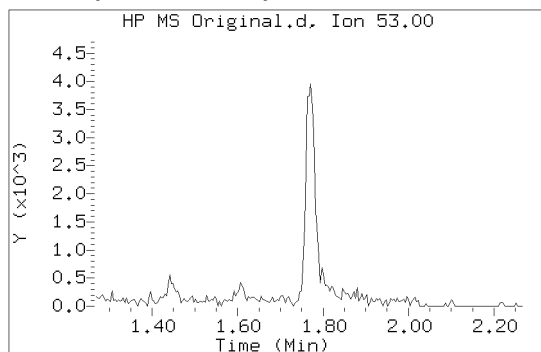
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Chloroprene (126-99-8)

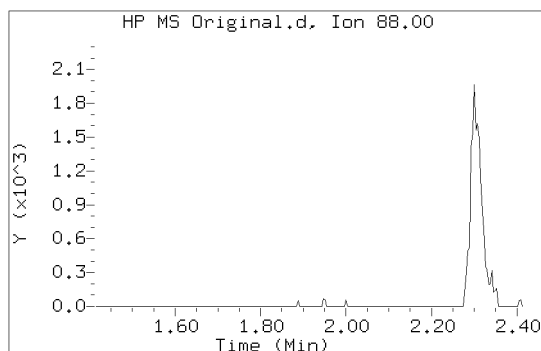
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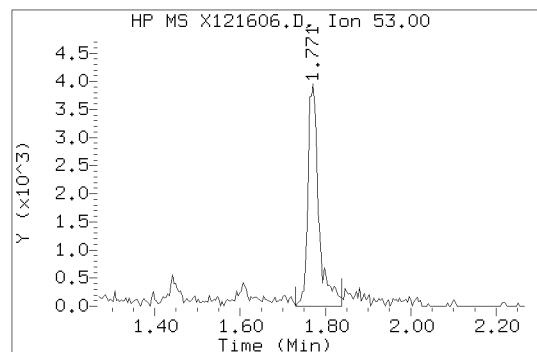
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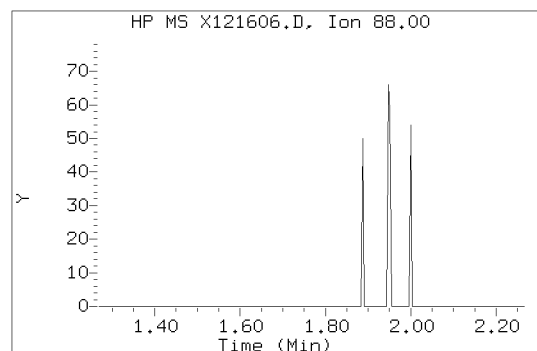
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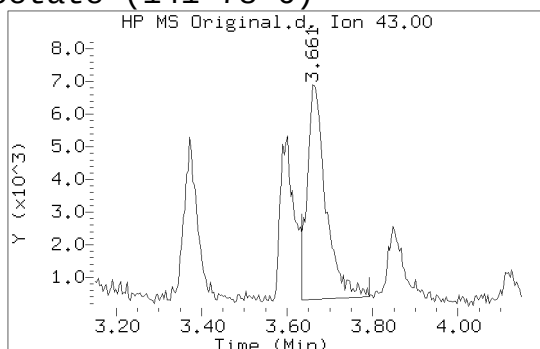


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Ethyl Acetate (141-78-6)

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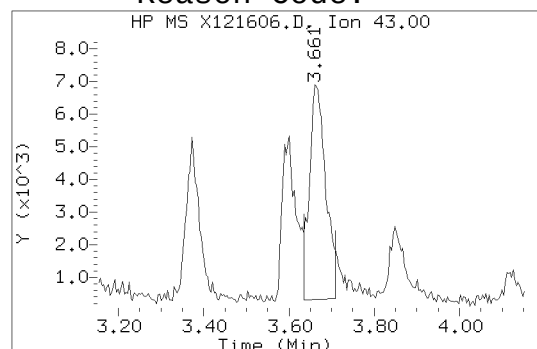
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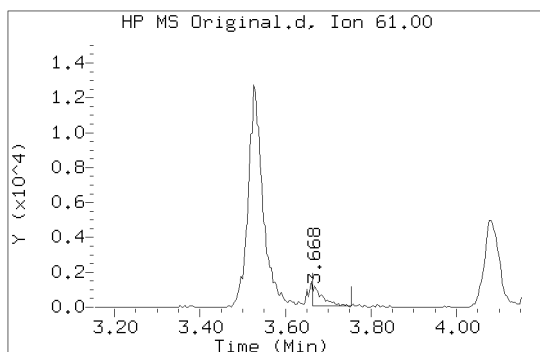
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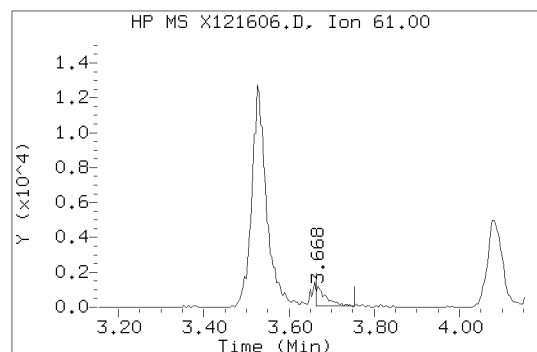
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1766
HEIGHT
1155
27-Dec-2022
16:03
linh
pham



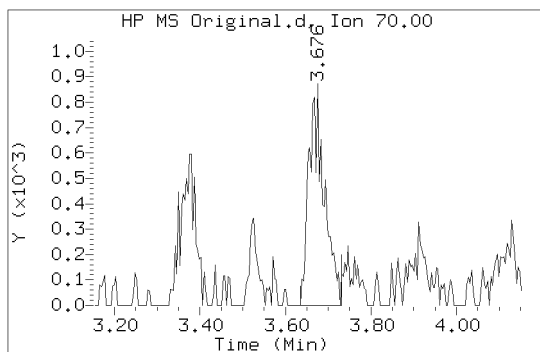
AFTER

MASS
61
AREA
1766
HEIGHT
1155
27-Dec-2022
16:07
linh
pham



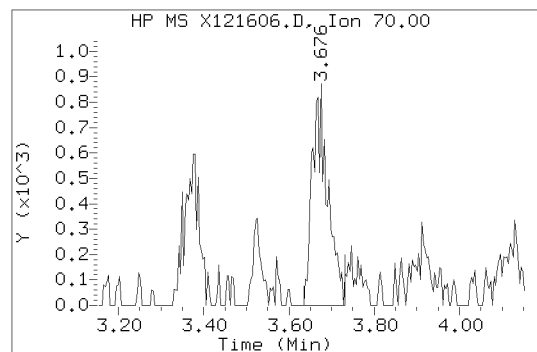
BEFORE

MASS
70
AREA
2205
HEIGHT
873
27-Dec-2022
16:03
linh
pham



AFTER

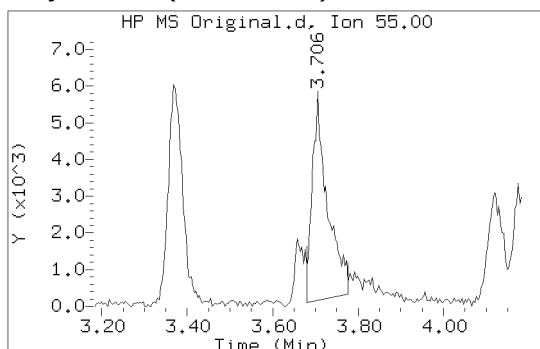
MASS
70
AREA
2205
HEIGHT
873
27-Dec-2022
16:07
linh
pham



Methyl Acrylate (96-33-3)

BEFORE

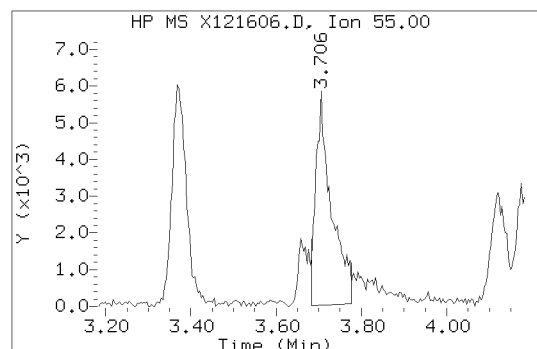
MASS
55
AREA
14157
HEIGHT
5696
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
14950
HEIGHT
5831
27-Dec-2022
16:07
linh
pham

Reason Code:

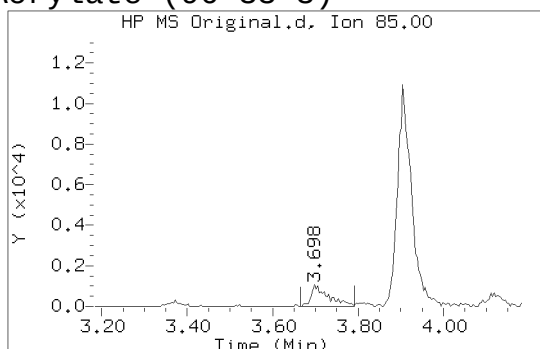


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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

BEFORE

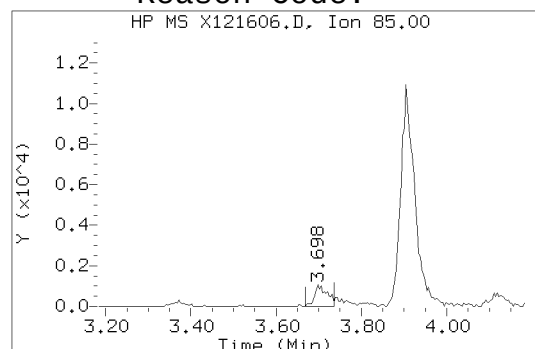
MASS
85
AREA
2934
HEIGHT
1073
27-Dec-2022
16:03
linh
pham



AFTER

MASS
85
AREA
2159
HEIGHT
1073
27-Dec-2022
16:07
linh
pham

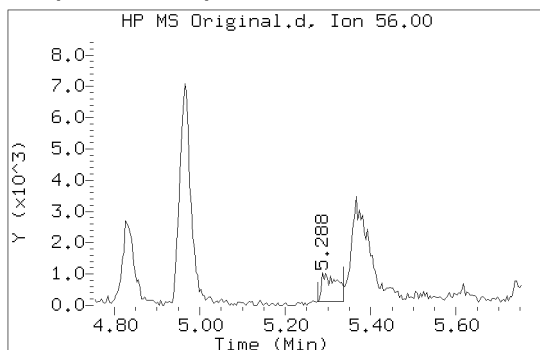
Reason Code:



n-Butanol (71-36-3)

BEFORE

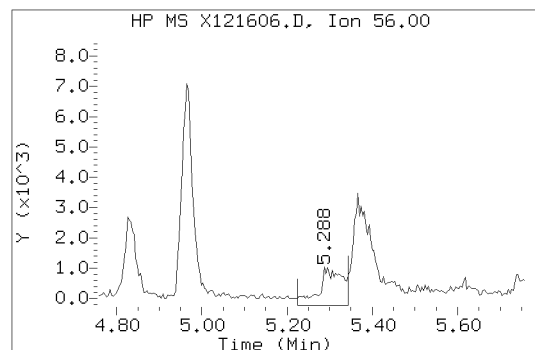
MASS
56
AREA
2243
HEIGHT
922
27-Dec-2022
16:03
linh
pham



AFTER

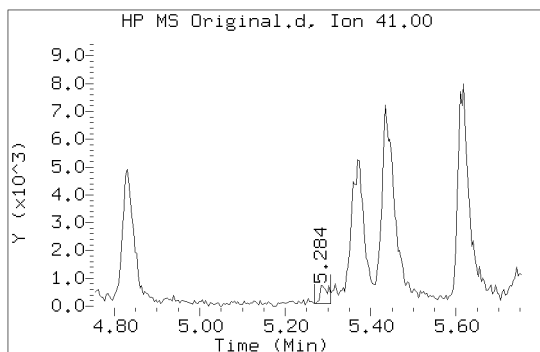
MASS
56
AREA
4891
HEIGHT
1266
27-Dec-2022
16:07
linh
pham

Reason Code:



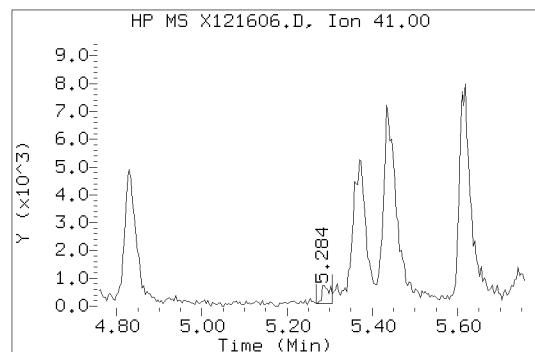
BEFORE

MASS
41
AREA
876
HEIGHT
641
27-Dec-2022
16:03
linh
pham



AFTER

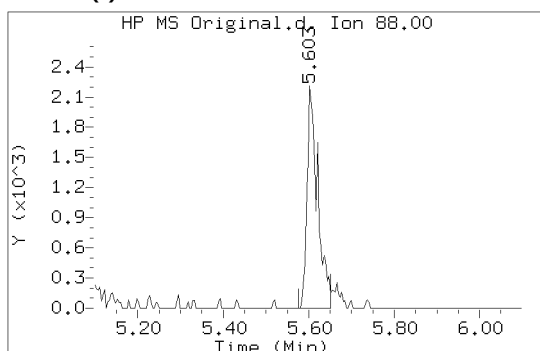
MASS
41
AREA
876
HEIGHT
641
27-Dec-2022
16:07
linh
pham



1,4-Dioxane ()

BEFORE

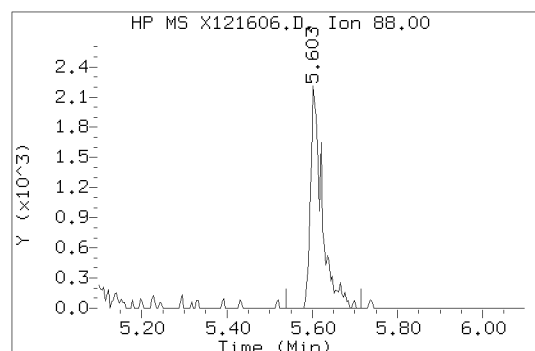
MASS
88
AREA
3873
HEIGHT
2211
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
4197
HEIGHT
2211
27-Dec-2022
16:07
linh
pham

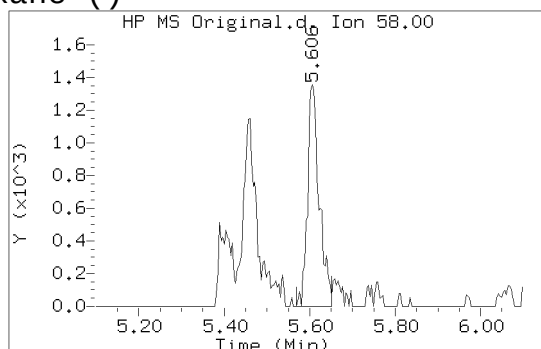
Reason Code:



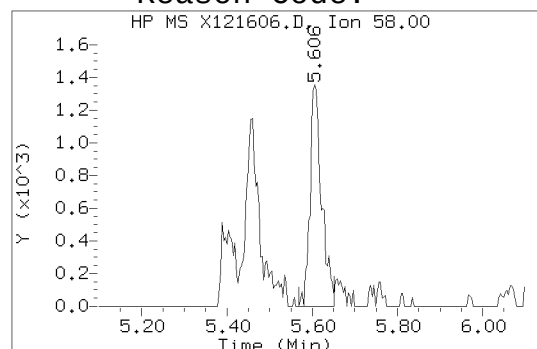
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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,4-Dioxane ()**BEFORE**

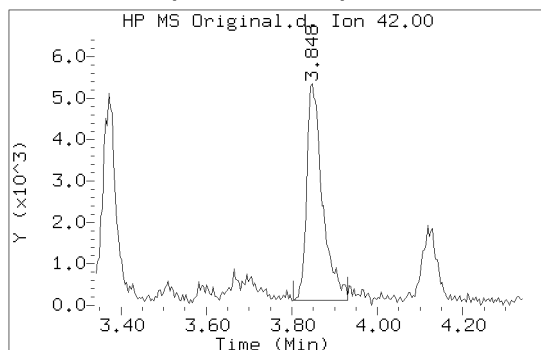
MASS
58
AREA
2625
HEIGHT
1356
27-Dec-2022
16:03
linh
pham

**AFTER**

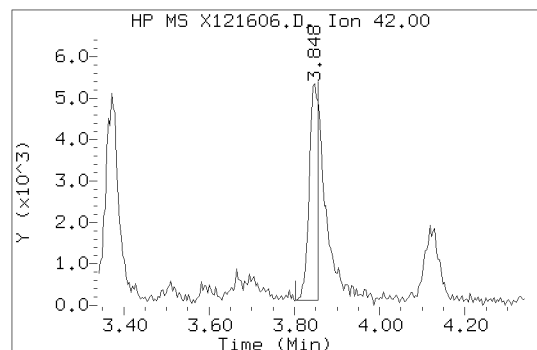
MASS
58
AREA
2625
HEIGHT
1356
27-Dec-2022
16:07
linh
pham

Reason Code:**Tetrahydrofuran (109-99-9)****BEFORE**

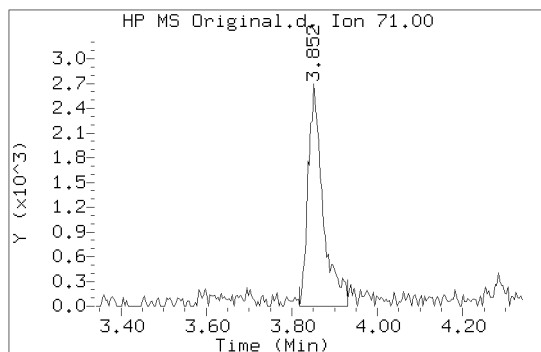
MASS
42
AREA
13557
HEIGHT
5225
27-Dec-2022
16:03
linh
pham

**AFTER**

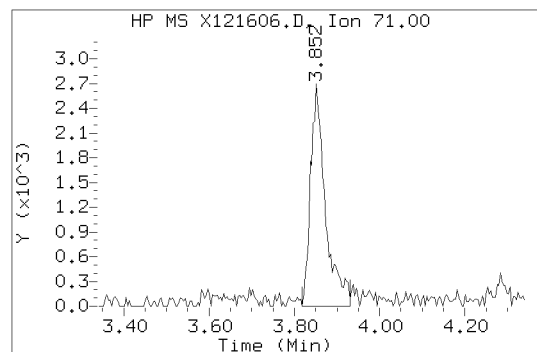
MASS
42
AREA
7598
HEIGHT
5225
27-Dec-2022
16:07
linh
pham

Reason Code:**BEFORE**

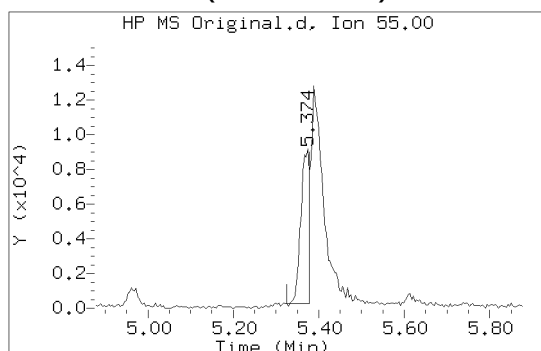
MASS
71
AREA
6572
HEIGHT
2695
27-Dec-2022
16:03
linh
pham

**AFTER**

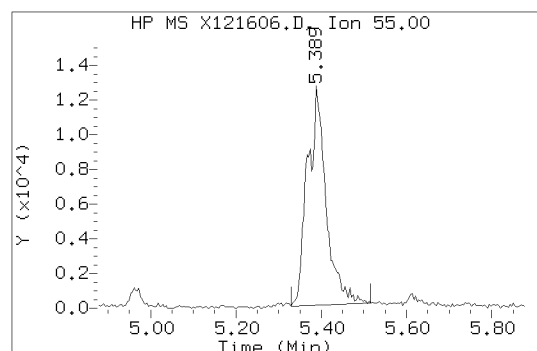
MASS
71
AREA
6572
HEIGHT
2695
27-Dec-2022
16:07
linh
pham

**Methylcyclohexane (108-87-2)****BEFORE**

MASS
55
AREA
12381
HEIGHT
8941
27-Dec-2022
16:03
linh
pham

**AFTER**

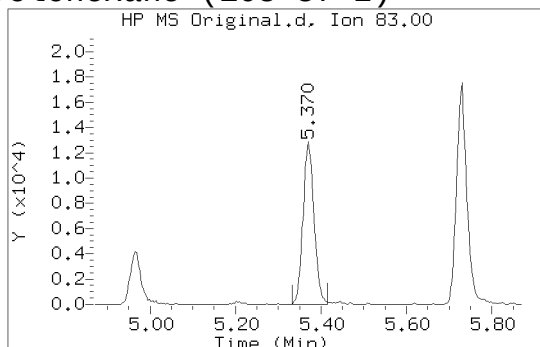
MASS
55
AREA
38650
HEIGHT
12647
27-Dec-2022
16:07
linh
pham

Reason Code:

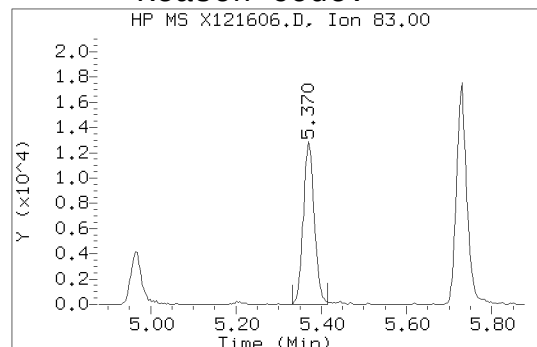
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methylcyclohexane (108-87-2)**BEFORE**

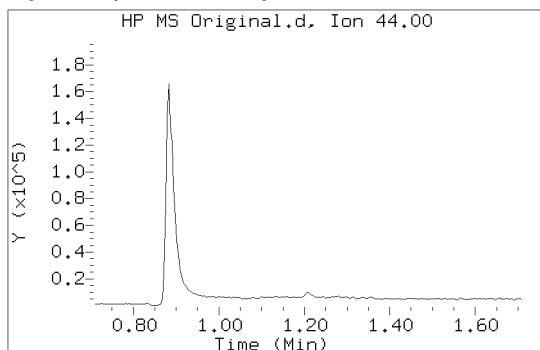
MASS
83
AREA
23564
HEIGHT
12870
27-Dec-2022
16:03
linh
pham

**AFTER**

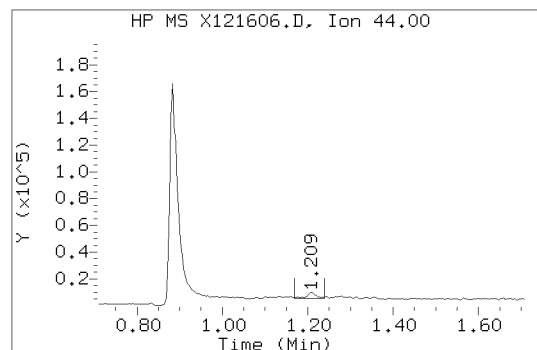
MASS
83
AREA
23564
HEIGHT
12870
27-Dec-2022
16:07
linh
pham

**Acetaldehyde (75-07-0)****BEFORE**

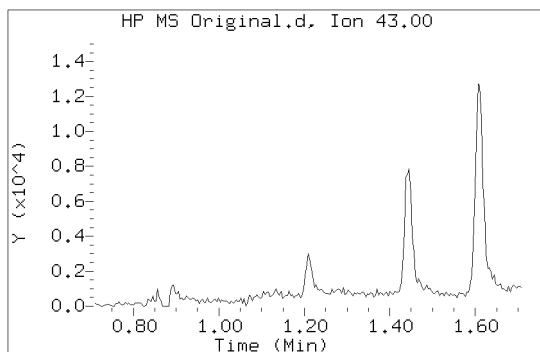
MASS
44
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

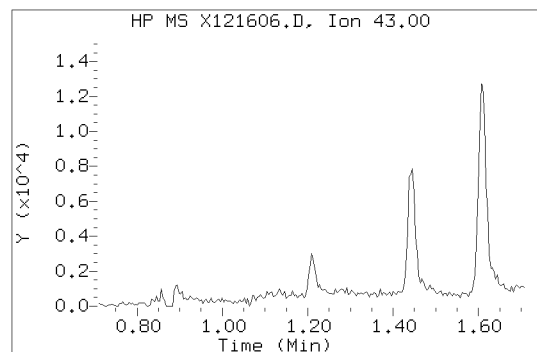
MASS
44
AREA
6161
HEIGHT
4314
27-Dec-2022
16:07
linh
pham

**BEFORE**

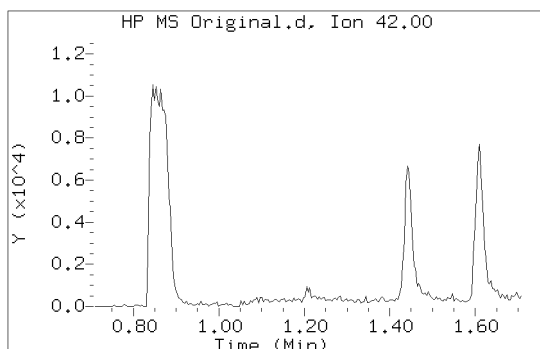
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

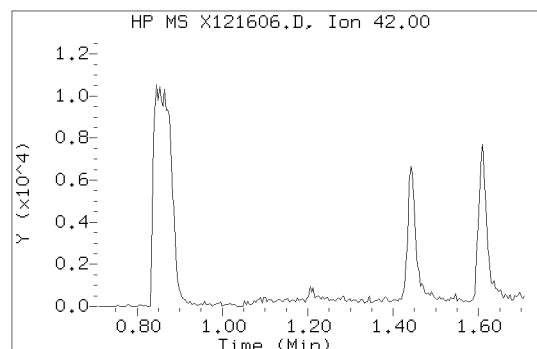
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

**BEFORE**

MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

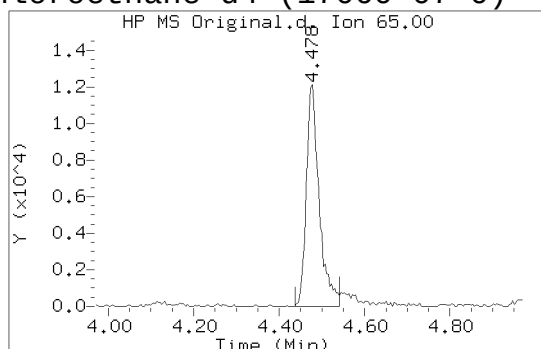


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,2-Dichloroethane-d4 (17060-07-0)

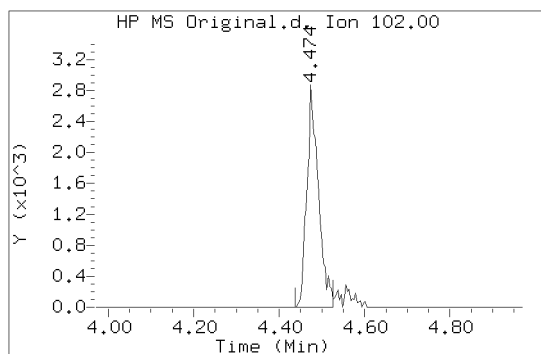
BEFORE

MASS
65
AREA
25815
HEIGHT
12121
27-Dec-2022
16:03
linh
pham



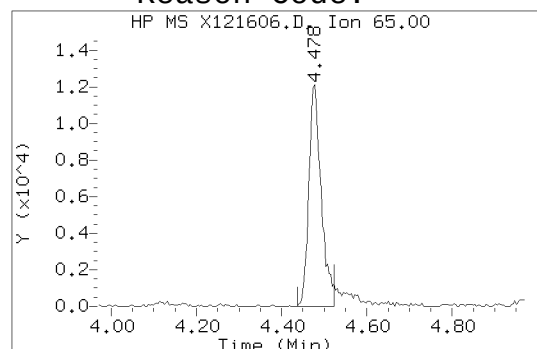
BEFORE

MASS
102
AREA
5492
HEIGHT
2873
27-Dec-2022
16:03
linh
pham



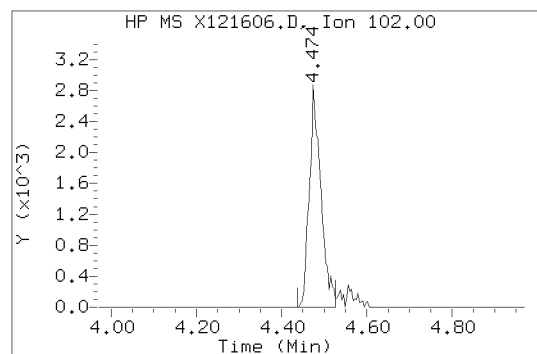
AFTER

MASS
65
AREA
24938
HEIGHT
12121
27-Dec-2022
16:07
linh
pham



AFTER

MASS
102
AREA
5492
HEIGHT
2873
27-Dec-2022
16:07
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D
 Lab Smp Id: VSTD020 Client Smp ID: VSTD020
 Inj Date : 16-DEC-2022 13:43
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD020;VSTD020;1;6;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 13:23 Cal File: X121606.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		459407	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		16105	400.000	383.50(M)
140 1,3-Butadiene	54		1.164	1.164	(0.279)		58280	20.0000	18.48
25 Methacrylonitrile	41		3.821	3.821	(0.915)		62911	20.0000	19.33
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		201008	400.000	388.99
13 Acetonitrile	39		2.195	2.195	(0.525)		81163	200.000	194.11
14 Allyl Chloride	41		2.195	2.195	(0.525)		150748	20.0000	18.93
4 Propionitrile	54		3.653	3.653	(0.874)		85562	200.000	182.52
136 n-Hexane	57		2.768	2.768	(0.663)		65476	20.0000	19.79
72 trans-1,4-Dichloro-2-butene	53		8.893	8.893	(1.160)		26140	20.0000	18.70
194 Acetaldehyde	44		1.209	1.209	(0.289)		32393	80.0000	100.98(M)
23 Chloroprene	53		1.767	1.767	(0.423)		27967	20.0000	17.90(M)
145 alpha-Methylstyrene	118		9.261	9.261	(0.958)		155968	20.0000	19.76
200 Dimethyl Disulfide	94		6.198	6.198	(0.808)		171978	20.0000	19.62
139 Diethyl ether	59		1.756	1.756	(0.420)		55275	20.0000	18.00
130 Ethyl Acetate	43		3.660	3.660	(0.876)		75163	20.0000	20.96
40 Methyl Methacrylate	41		5.606	5.606	(1.342)		56242	20.0000	17.95
49 Ethyl Methacrylate	69		6.712	6.712	(1.352)		58073	20.0000	18.07
132 n-Butanol	56		5.268	5.268	(1.261)		15012	400.000	294.62
142 Tetrahydrofuran	42		3.848	3.848	(0.921)		28221	40.0000	47.81



150 Allyl alcohol	57	2.768	2.768 (0.663)	65476	400.000	366.93
166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	331546	20.0000	19.32

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.690	3.690	(0.883)	57874	20.0000	18.55(M)
162 Butyl acrylate	55	8.252	8.252	(1.076)	156518	20.0000	18.50
2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	63382	20.0000	19.96
3 Chloromethane	50	1.077	1.077	(0.258)	72324	20.0000	18.84
5 Vinyl Chloride	62	1.141	1.141	(0.273)	74461	20.0000	18.55
6 Bromomethane	94	1.340	1.340	(0.321)	52034	20.0000	18.30
7 Chloroethane	64	1.400	1.400	(0.335)	52021	20.0000	18.62
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	106188	20.0000	18.90
9 Acrolein	56	1.441	1.441	(0.345)	12279	40.0000	40.80
10 Acetone	43	1.973	1.973	(0.472)	50987	40.0000	39.53
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	65650	20.0000	18.82
15 Iodomethane	142	2.026	2.026	(0.485)	143457	40.0000	34.36
16 Acrylonitrile	53	2.532	2.532	(0.606)	46552	40.0000	39.36
17 Methylene Chloride	84	2.303	2.303	(0.551)	94402	20.0000	19.73
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	214504	20.0000	18.79
19 Carbon Disulfide	76	2.067	2.067	(0.495)	337289	40.0000	36.97
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	74471	20.0000	19.08
21 Vinyl Acetate	43	2.997	2.997	(0.717)	387538	40.0000	38.68
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	129644	20.0000	18.93
24 2-Butanone	43	3.578	3.578	(0.856)	47830	40.0000	36.94(H)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	108952	20.0000	18.73
27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	88894	20.0000	18.71
28 Chloroform	83	3.904	3.904	(0.935)	145610	20.0000	18.96
29 Bromochloromethane	128	3.795	3.795	(0.908)	47919	20.0000	18.42
\$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	90108	20.0000	20.32
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	116049	20.0000	19.05
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	93914	20.0000	19.38
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	108750	20.0000	19.45
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	93815	20.0000	18.13
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	92990	20.0000	20.13
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	682389	50.0000	
37 Benzene	78	4.511	4.511	(0.909)	313141	20.0000	19.21
38 Trichloroethene	130	5.205	5.205	(1.048)	90292	20.0000	19.53
39 Bromodichloromethane	83	5.726	5.726	(1.153)	116178	20.0000	18.99
41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	71559	40.0000	41.12
42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	82954	20.0000	19.13
44 Dibromomethane	93	5.553	5.553	(1.119)	57196	20.0000	19.41
45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	138209	40.0000	39.93
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	142141	20.0000	19.79
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	647445	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	315179	20.0000	19.70
50 Toluene	91	6.445	6.445	(0.841)	339968	20.0000	18.99
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	116330	20.0000	19.51
52 2-Hexanone	43	7.086	7.086	(0.924)	93119	40.0000	39.54
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	69855	20.0000	19.45
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	137967	20.0000	19.52
55 Dibromochloromethane	129	7.176	7.176	(0.936)	100749	20.0000	19.44
56 Tetrachloroethene	164	6.925	6.925	(0.903)	74611	20.0000	20.15
57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	88886	20.0000	19.80
58 1-Chlorohexane	55	7.694	7.694	(1.550)	66757	20.0000	20.24
59 Chlorobenzene	112	7.694	7.694	(1.003)	240885	20.0000	18.97
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	90283	20.0000	19.11



61 Ethylbenzene	106	7.799	7.799 (1.017)	117560	20.0000	19.66
62 m,p-Xylenes	106	7.904	7.904 (1.031)	299082	40.0000	38.80



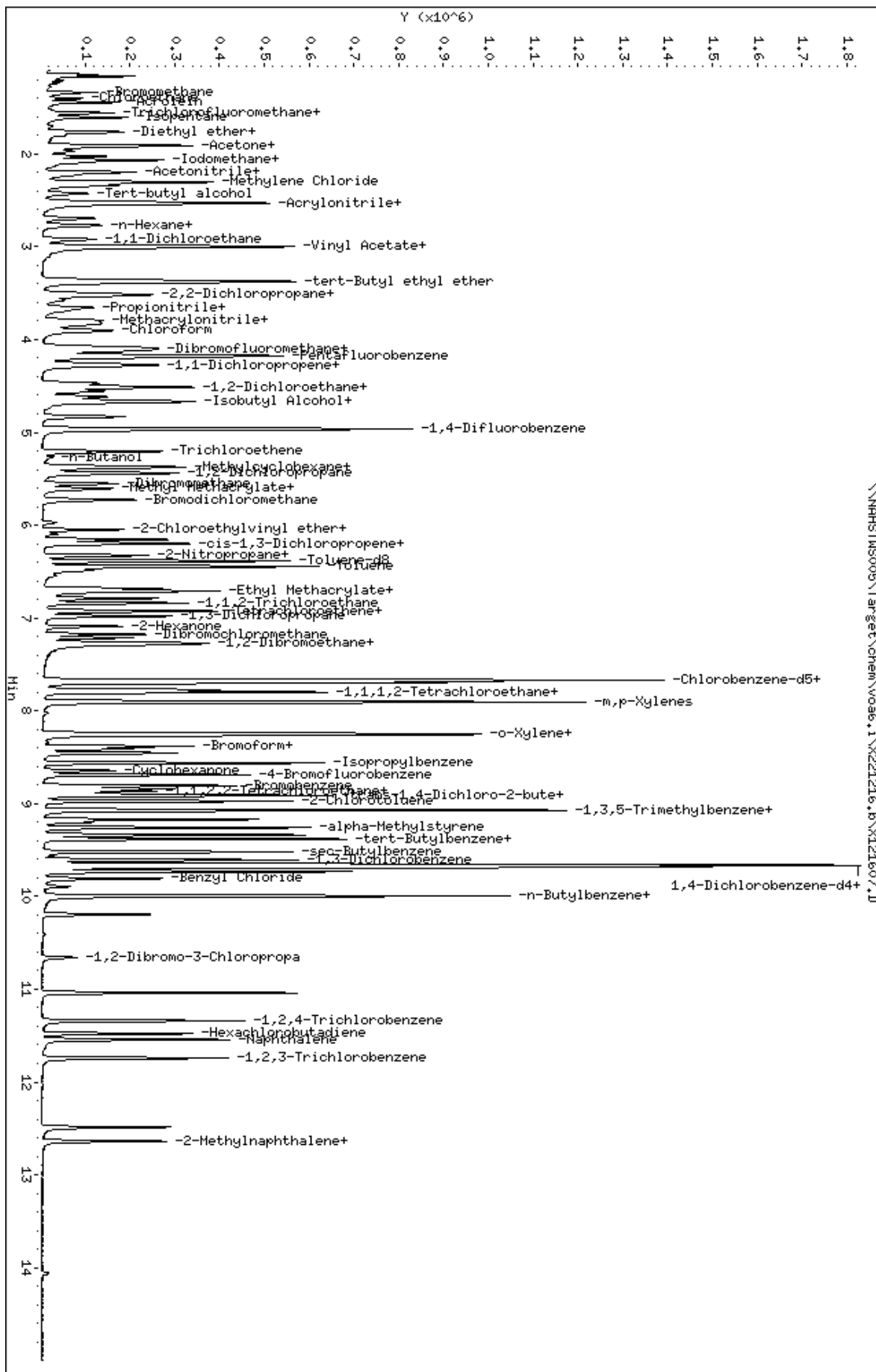
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.075)	147602	20.0000	19.40
64 Styrene	104	8.260	8.260	(1.077)	253280	20.0000	19.86
66 Bromoform	173	8.410	8.410	(1.097)	69137	20.0000	19.25
67 Isopropylbenzene	105	8.560	8.560	(1.116)	344283	20.0000	19.80
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	112594	20.0000	19.83
\$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	116878	20.0000	19.58
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356229	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	76967	20.0000	19.41
73 n-Propylbenzene	91	8.912	8.912	(0.922)	404399	20.0000	20.49
74 Bromobenzene	156	8.803	8.803	(0.911)	117586	20.0000	20.11
75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	295026	20.0000	20.23
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	256591	20.0000	19.81
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	294244	20.0000	19.93
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	242174	20.0000	20.29
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	305461	20.0000	19.91
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	326826	20.0000	20.58
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	294187	20.0000	20.67
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	197278	20.0000	20.33
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	207572	20.0000	19.60
86 Benzyl Chloride	91	9.808	9.808	(1.279)	163895	20.0000	17.99
87 n-Butylbenzene	91	9.995	9.995	(1.035)	248190	20.0000	19.23
88 1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	201166	20.0000	20.13
89 1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	18635	20.0000	20.58
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	130463	20.0000	20.69
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	55912	20.0000	20.12
92 Naphthalene	128	11.544	11.544	(1.195)	300432	20.0000	20.94
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	124401	20.0000	20.60
M 94 1,2-Dichloroethylene (total)	96				163365	40.0000	
M 95 Xylenes (total)	106				446684	60.0000	
141 Cyclohexane	56	4.118	4.118	(0.986)	84355	20.0000	19.01(M)
138 Freon TF	101	1.910	1.910	(0.457)	64657	20.0000	19.17
147 Methylcyclohexane	55	5.381	5.381	(1.084)	172044	20.0000	20.59
146 Methyl Acetate	43	2.228	2.228	(0.533)	38475	20.0000	18.61
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	117583	400.000	369.63
149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	61646	400.000	371.06

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.





Data File: \\NAHSTMS005\Target\chem\voa6.i\X221216.b\X121607.D
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 Client ID: VSTD020
 Sample Info: VSTD020\VSTD020;116;
 Purge Volume: 5.0
 Column phase: DB624

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

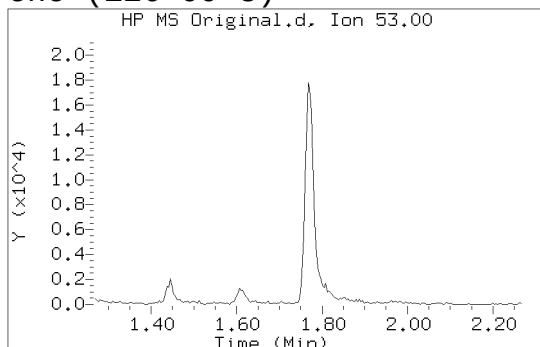


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Inj Date : 16-DEC-2022 13:43
InstruID : voa6.i
LabSampID : VSTD020

Chloroprene (126-99-8)

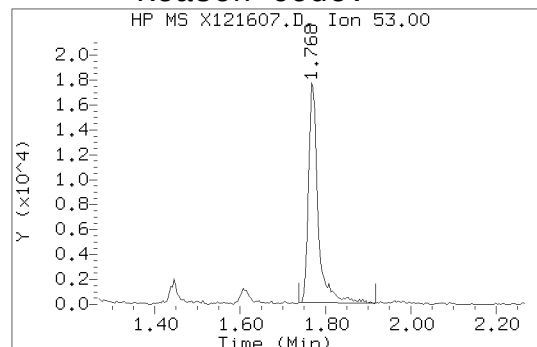
BEFORE

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27-Dec-2022
16:03
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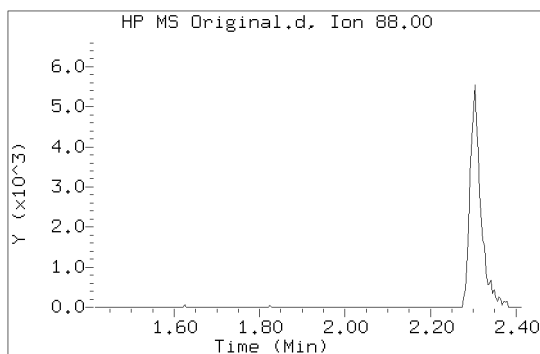
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16:06
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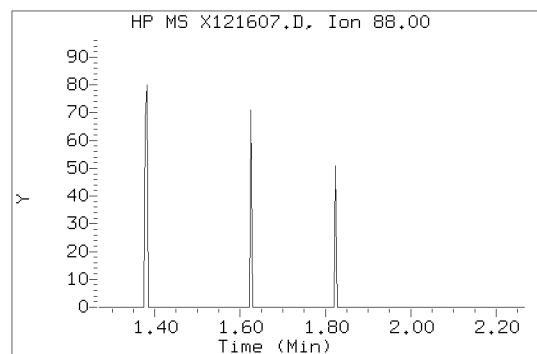
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27-Dec-2022
16:03
linh
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AFTER

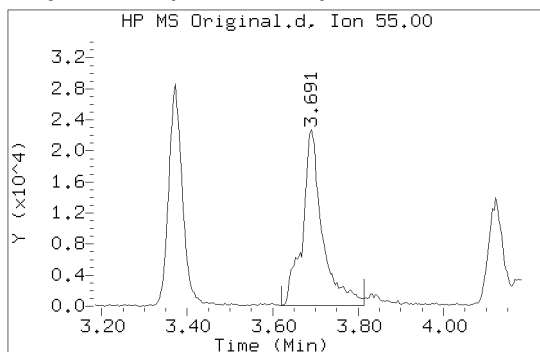
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HEIGHT
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27-Dec-2022
16:06
linh
pham



Methyl Acrylate (96-33-3)

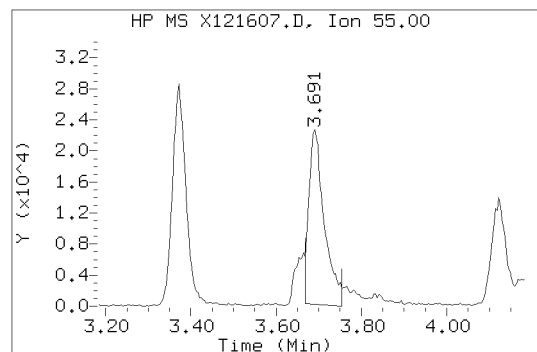
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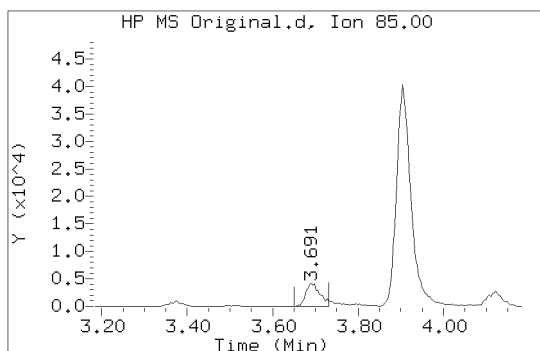
AFTER

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16:06
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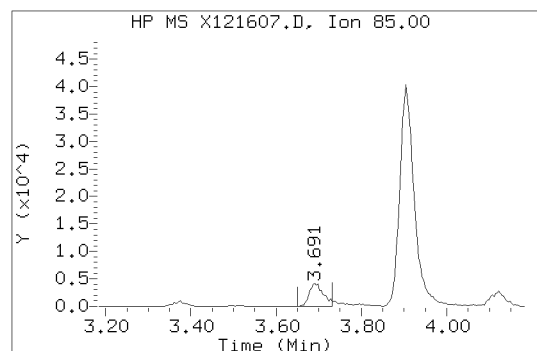
BEFORE

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HEIGHT
4239
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
9792
HEIGHT
4239
27-Dec-2022
16:06
linh
pham

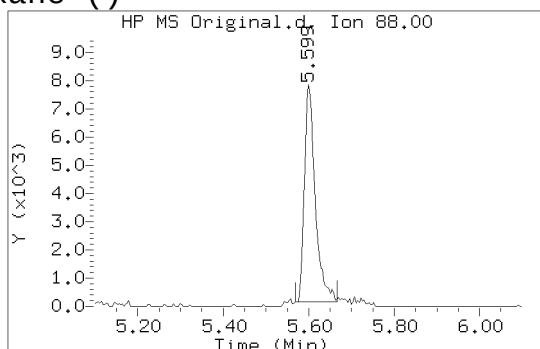


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Inj Date : 16-DEC-2022 13:43
InstruID : voa6.i
LabSampID : VSTD020

1,4-Dioxane ()

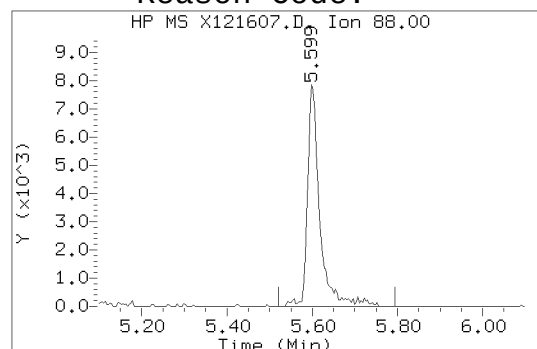
BEFORE

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HEIGHT
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16:03
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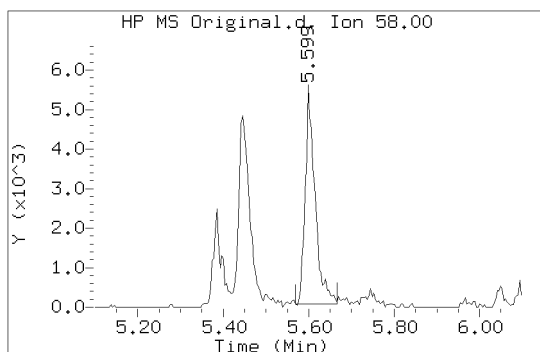
AFTER

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AREA
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16:06
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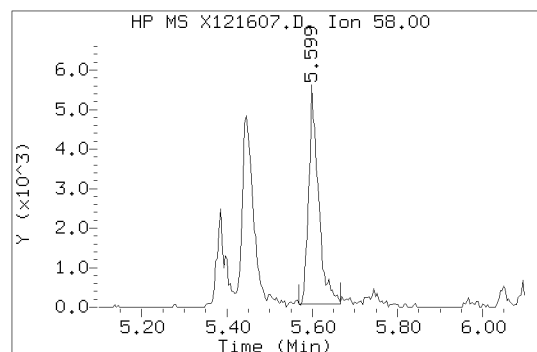
BEFORE

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16:03
linh
pham



AFTER

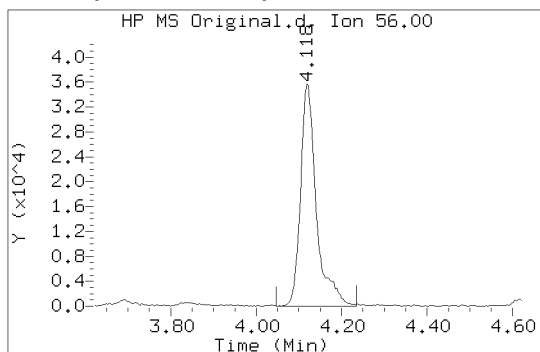
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HEIGHT
5535
27-Dec-2022
16:06
linh
pham



Cyclohexane (110-82-7)

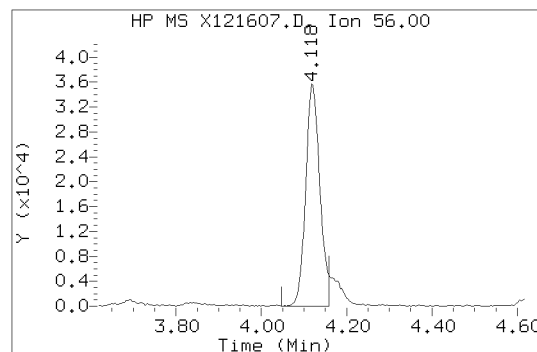
BEFORE

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16:03
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pham



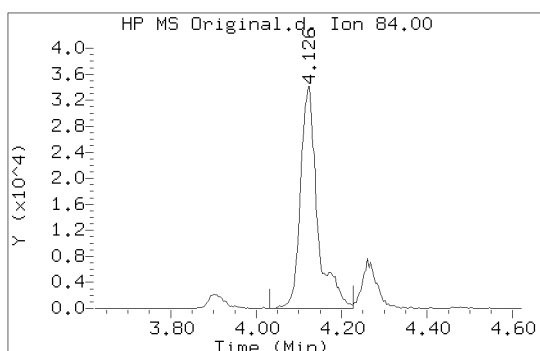
AFTER

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16:06
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pham



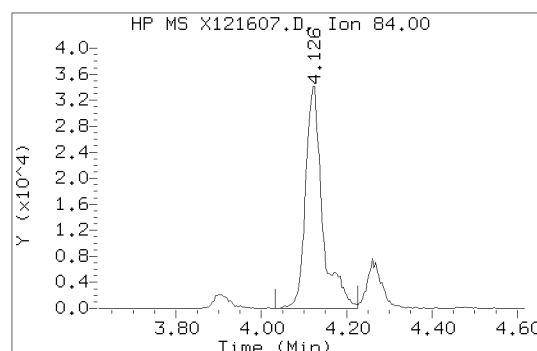
BEFORE

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AREA
95724
HEIGHT
34088
27-Dec-2022
16:03
linh
pham



AFTER

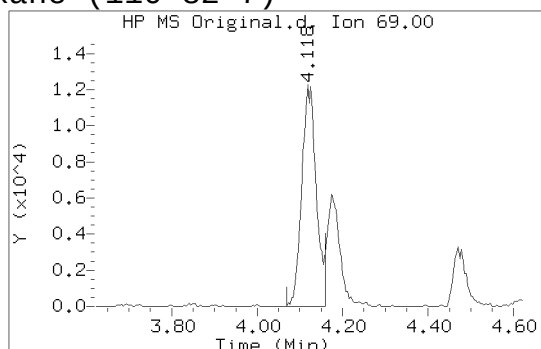
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27-Dec-2022
16:06
linh
pham



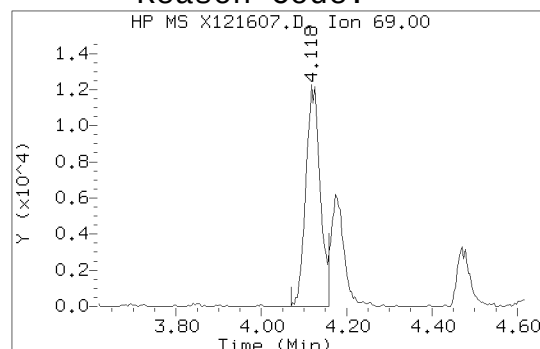
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InstruID : voa6.i
LabSampID : VSTD020

Cyclohexane (110-82-7)**BEFORE**

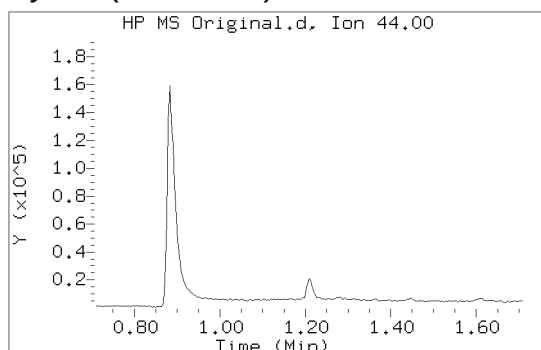
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16:03
linh
pham

**AFTER**

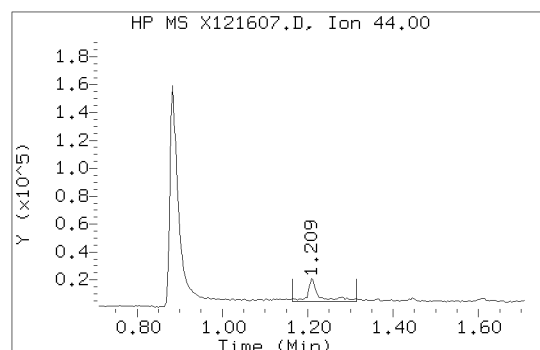
MASS
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AREA
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12273
27-Dec-2022
16:06
linh
pham

Reason Code:**Acetaldehyde (75-07-0)****BEFORE**

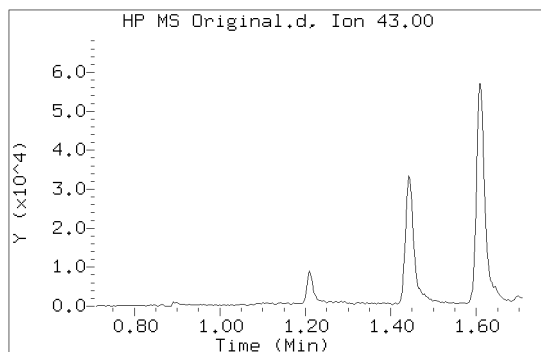
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AREA
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HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

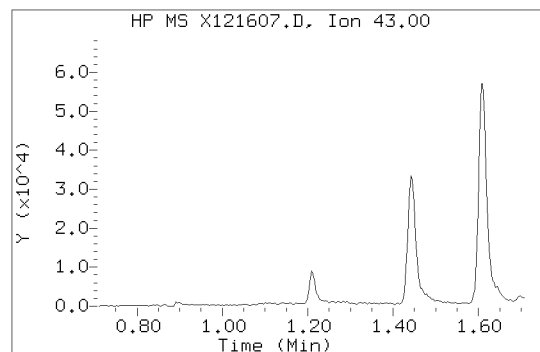
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27-Dec-2022
16:06
linh
pham

Reason Code:**BEFORE**

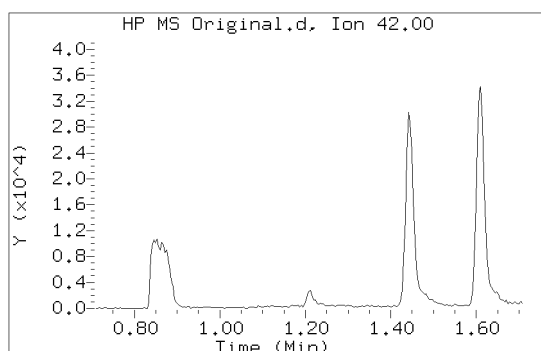
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27-Dec-2022
16:03
linh
pham

**AFTER**

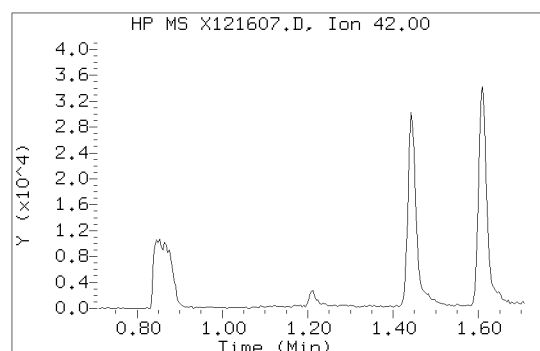
MASS
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AREA
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HEIGHT
0
27-Dec-2022
16:06
linh
pham

**BEFORE**

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AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D
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 Inj Date : 16-DEC-2022 14:04
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD050;VSTD050;1;7;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 13:43 Cal File: X121607.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)	457591	50.0000		
135 1,4-Dioxane	88		5.595	5.595	(1.339)	40509	1000.00	968.45	
140 1,3-Butadiene	54		1.160	1.160	(0.278)	152324	50.0000	48.50	
25 Methacrylonitrile	41		3.821	3.821	(0.915)	147931	50.0000	45.65	
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)	499872	1000.00	971.21	
13 Acetonitrile	39		2.195	2.195	(0.525)	202696	500.000	486.70	
14 Allyl Chloride	41		2.195	2.195	(0.525)	372130	50.0000	46.91	
4 Propionitrile	54		3.645	3.645	(0.873)	221995	500.000	475.45	
136 n-Hexane	57		2.768	2.768	(0.663)	182358	50.0000	55.34	
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)	70497	50.0000	50.03	
194 Acetaldehyde	44		1.209	1.209	(0.289)	67188	200.000	235.49(M)	
23 Chloroprene	53		1.767	1.767	(0.423)	73877	50.0000	47.48(M)	
145 alpha-Methylstyrene	118		9.257	9.257	(0.958)	423646	50.0000	51.17	
200 Dimethyl Disulfide	94		6.194	6.194	(0.808)	438695	50.0000	49.65	
139 Diethyl ether	59		1.756	1.756	(0.420)	141705	50.0000	46.34	
130 Ethyl Acetate	43		3.649	3.649	(0.873)	170590	50.0000	47.77	
40 Methyl Methacrylate	41		5.606	5.606	(1.342)	147516	50.0000	47.27	
49 Ethyl Methacrylate	69		6.712	6.712	(1.352)	144135	50.0000	44.17	
132 n-Butanol	56		5.253	5.253	(1.257)	54418	1000.00	935.85	
142 Tetrahydrofuran	42		3.844	3.844	(0.920)	58181	100.000	102.34	



150 Allyl alcohol	57	2.768	2.768 (0.663)	182358	1000.00	1026.00
166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	826758	50.0000	45.95

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.683	3.683	(0.882)	151068	50.0000	48.62(M)
162 Butyl acrylate	55	8.252	8.252	(1.076)	415774	50.0000	48.76
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	160392	50.0000	50.11
3 Chloromethane	50	1.077	1.077	(0.258)	192710	50.0000	46.69
5 Vinyl Chloride	62	1.141	1.141	(0.273)	201812	50.0000	50.48
6 Bromomethane	94	1.336	1.336	(0.320)	139689	50.0000	46.33
7 Chloroethane	64	1.400	1.400	(0.335)	134745	50.0000	48.43
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	278013	50.0000	49.70
9 Acrolein	56	1.441	1.441	(0.345)	27445	100.000	88.04
10 Acetone	43	1.970	1.970	(0.472)	124798	100.000	97.19
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	168905	50.0000	48.63
15 Iodomethane	142	2.022	2.022	(0.484)	455792	100.000	99.60
16 Acrylonitrile	53	2.528	2.528	(0.605)	118697	100.000	100.77
17 Methylene Chloride	84	2.300	2.300	(0.550)	225642	50.0000	47.36
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	534667	50.0000	47.03
19 Carbon Disulfide	76	2.067	2.067	(0.495)	892690	100.000	98.24
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	191505	50.0000	49.27
21 Vinyl Acetate	43	2.993	2.993	(0.716)	983875	100.000	98.59
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	330037	50.0000	48.38
24 2-Butanone	43	3.574	3.574	(0.856)	130179	100.000	95.71(H)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	283996	50.0000	49.03
27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	228729	50.0000	48.35
28 Chloroform	83	3.904	3.904	(0.935)	370755	50.0000	48.49
29 Bromochloromethane	128	3.788	3.788	(0.907)	120638	50.0000	46.58
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	211939	50.0000	48.23
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	300650	50.0000	49.56
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	256928	50.0000	52.23
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	276500	50.0000	48.70
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	251833	50.0000	47.94
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	222293	50.0000	47.94
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	692830	50.0000	
37 Benzene	78	4.507	4.507	(0.908)	812279	50.0000	49.09
38 Trichloroethene	130	5.205	5.205	(1.048)	233833	50.0000	49.83
39 Bromodichloromethane	83	5.722	5.722	(1.153)	297315	50.0000	47.88
41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	180920	100.000	102.42
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	215079	50.0000	48.87
44 Dibromomethane	93	5.553	5.553	(1.119)	143223	50.0000	47.87
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	336990	100.000	96.59
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	366231	50.0000	50.22
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	652727	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	772486	50.0000	47.89
50 Toluene	91	6.446	6.446	(0.841)	889029	50.0000	49.27
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	309568	50.0000	51.15
52 2-Hexanone	43	7.087	7.087	(0.924)	232879	100.000	98.10
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	172833	50.0000	47.75
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	345991	50.0000	48.56
55 Dibromochloromethane	129	7.176	7.176	(0.936)	260477	50.0000	49.86
56 Tetrachloroethene	164	6.925	6.925	(0.903)	194749	50.0000	52.17
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	229442	50.0000	50.70
58 1-Chlorohexane	55	7.694	7.694	(1.550)	170128	50.0000	50.81
59 Chlorobenzene	112	7.694	7.694	(1.003)	624151	50.0000	48.77
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	235373	50.0000	49.42



61 Ethylbenzene	106	7.799	7.799 (1.017)	311983	50.0000	51.75
62 m,p-Xylenes	106	7.904	7.904 (1.031)	785955	100.000	101.14



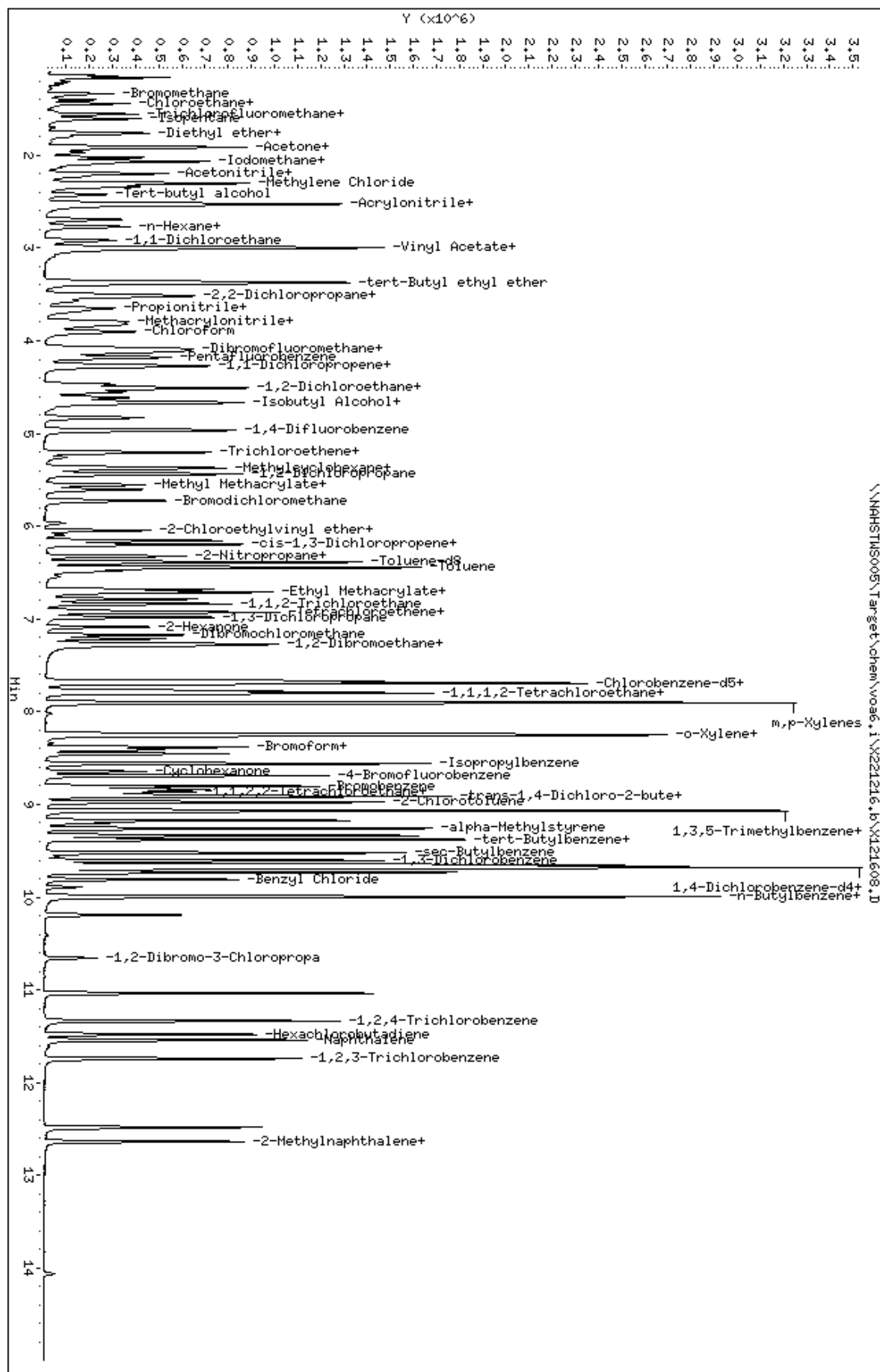
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.075)	385427	50.0000	50.25
64 Styrene	104	8.260	8.260	(1.077)	673066	50.0000	52.35
66 Bromoform	173	8.410	8.410	(1.097)	181492	50.0000	50.14
67 Isopropylbenzene	105	8.560	8.560	(1.116)	920845	50.0000	52.55
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	276483	50.0000	46.43
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	292753	50.0000	48.55
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	373588	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	199888	50.0000	48.08(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1085689	50.0000	52.46
74 Bromobenzene	156	8.803	8.803	(0.911)	299078	50.0000	48.79
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	793494	50.0000	51.90
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	670422	50.0000	49.37
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	782927	50.0000	50.57
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	652461	50.0000	52.14
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	815460	50.0000	50.69
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	889679	50.0000	53.43
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	810483	50.0000	54.32
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	520329	50.0000	51.14
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	544362	50.0000	49.03
86 Benzyl Chloride	91	9.808	9.808	(1.279)	472387	50.0000	46.44
87 n-Butylbenzene	91	9.995	9.995	(1.035)	696355	50.0000	48.48
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	519532	50.0000	49.58
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48660	50.0000	51.11
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	355455	50.0000	53.75
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	155390	50.0000	52.99
92 Naphthalene	128	11.540	11.540	(1.194)	799829	50.0000	53.16
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	320836	50.0000	50.66
M 94 1,2-Dichloroethylene (total)	96				420234	100.000	
M 95 Xylenes (total)	106				1171382	150.000	
141 Cyclohexane	56	4.121	4.121	(0.987)	237699	50.0000	51.49
138 Freon TF	101	1.913	1.913	(0.458)	172155	50.0000	51.25
147 Methylcyclohexane	55	5.377	5.377	(1.083)	420886	50.0000	49.62
146 Methyl Acetate	43	2.228	2.228	(0.533)	96420	50.0000	46.82
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	302677	1000.00	955.26
149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	157082	1000.00	949.28

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.





Data File: \\NAHSTMS005\Target\chem\voa6.i\X221216.b\X121608.D
 Date : 16-DEC-2022 14:04
 Client ID: VSTD050
 Sample Info: VSTD050;VSTD050;1;7;
 Purge Volume: 5.0
 Column phase: DB624

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

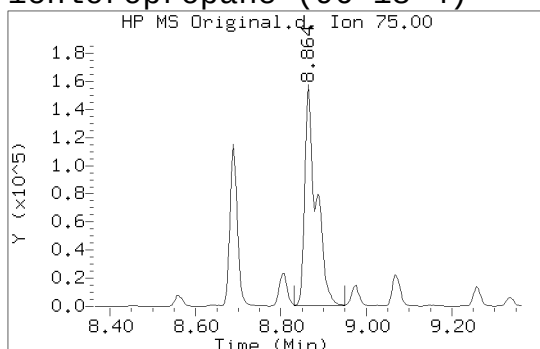


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Inj Date : 16-DEC-2022 14:04
InstruID : voa6.i
LabSampID : VSTD050

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

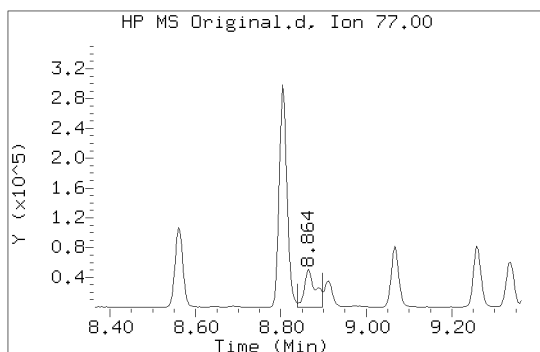
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16:03
linh



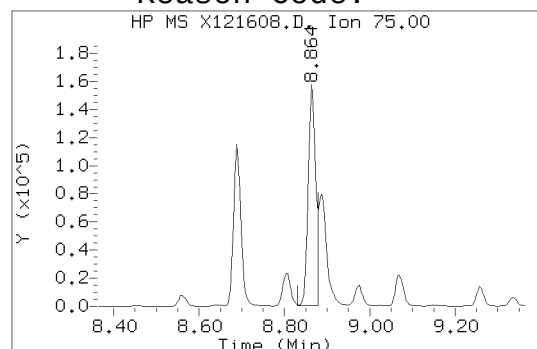
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pham



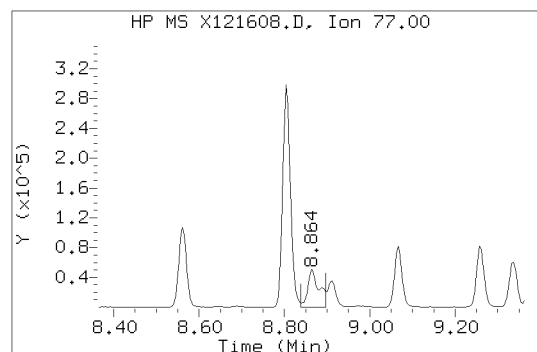
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AFTER

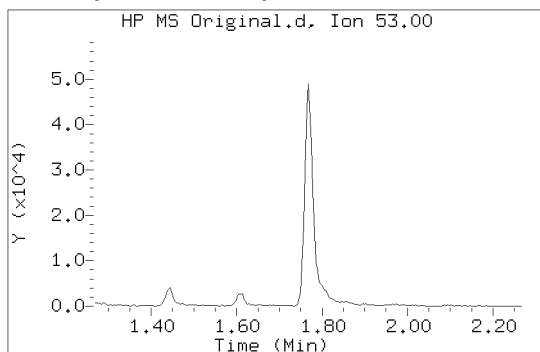
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pham



Chloroprene (126-99-8)

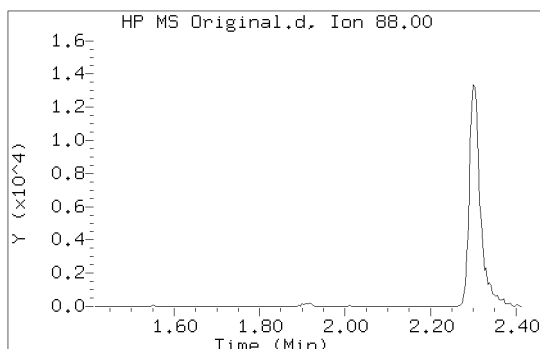
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pham



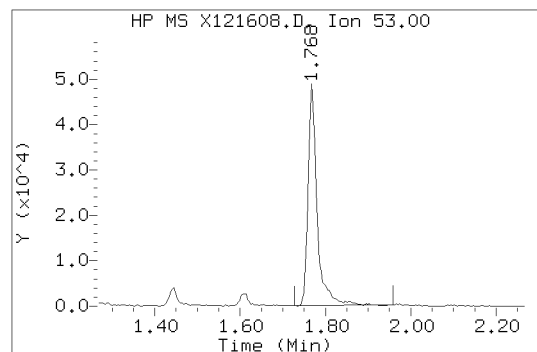
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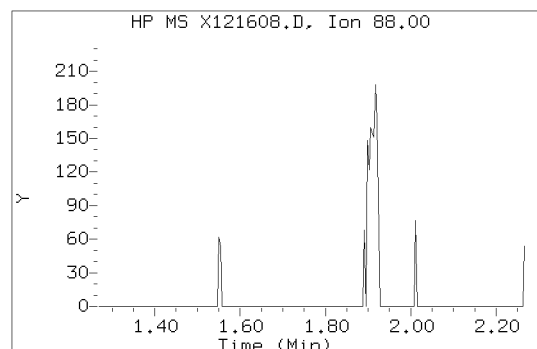
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pham



AFTER

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27-Dec-2022
16:06
linh
pham

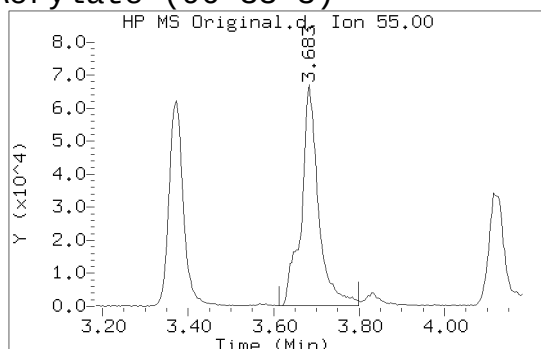


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Inj Date : 16-DEC-2022 14:04
InstruID : voa6.i
LabSampID : VSTD050

Methyl Acrylate (96-33-3)

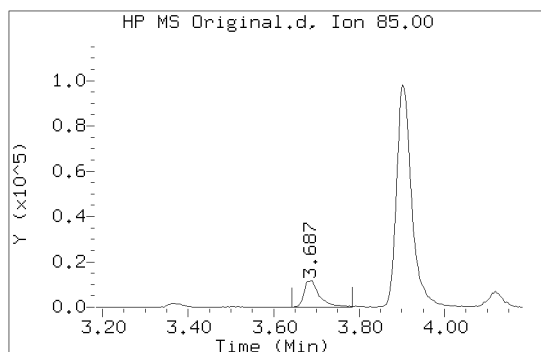
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HEIGHT
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27-Dec-2022
16:03
linh



BEFORE

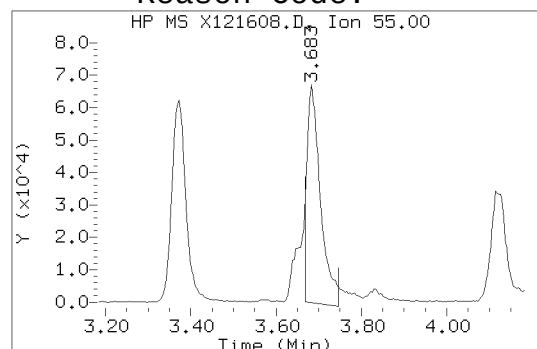
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HEIGHT
11707
27-Dec-2022
16:03
linh
pham



AFTER

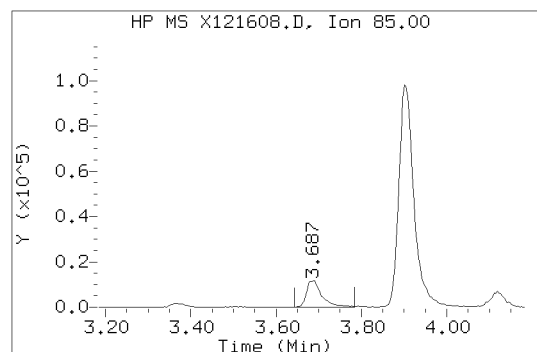
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16:06
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Reason Code:



AFTER

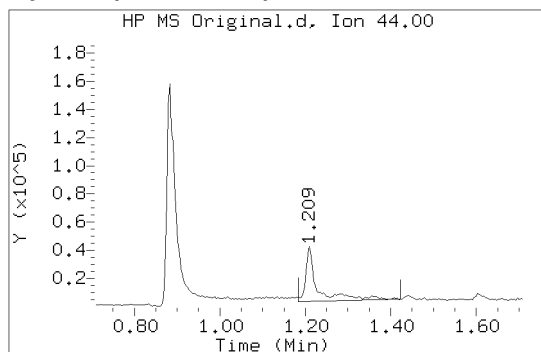
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HEIGHT
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16:06
linh
pham



Acetaldehyde (75-07-0)

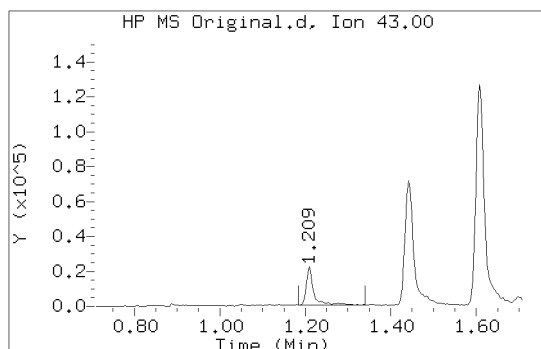
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16:03
linh
pham



BEFORE

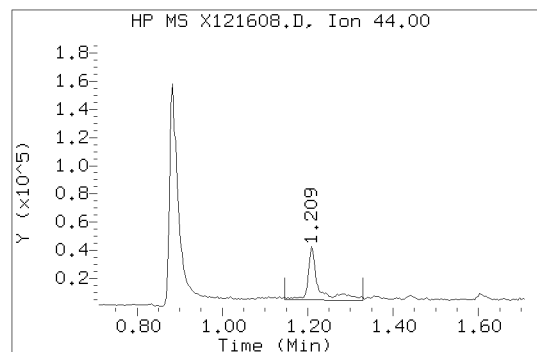
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HEIGHT
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27-Dec-2022
16:03
linh
pham



AFTER

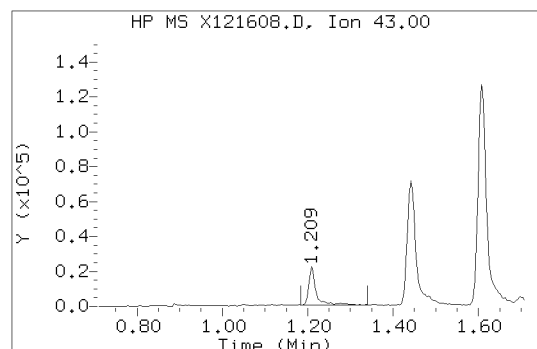
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AREA
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27-Dec-2022
16:06
linh
pham

Reason Code:



AFTER

MASS
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HEIGHT
22022
27-Dec-2022
16:06
linh
pham

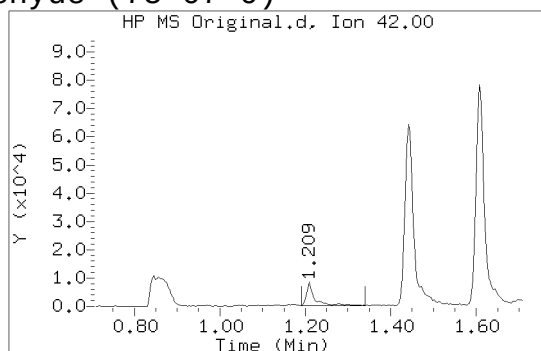


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InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

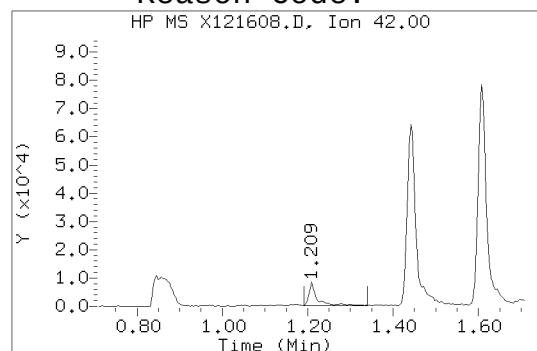
BEFORE

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AREA
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HEIGHT
8504
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
11352
HEIGHT
8504
27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D
 Lab Smp Id: VSTD100 Client Smp ID: VSTD100
 Inj Date : 16-DEC-2022 14:25
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD100;VSTD100;1;8;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 10 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		454640	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		80329	2000.00	1932.89
140 1,3-Butadiene	54		1.160	1.160	(0.278)		300004	100.000	96.14
25 Methacrylonitrile	41		3.822	3.822	(0.915)		296105	100.000	91.97
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		1010956	2000.00	1976.95
13 Acetonitrile	39		2.195	2.195	(0.525)		413876	1000.00	1000.23
14 Allyl Chloride	41		2.195	2.195	(0.525)		756242	100.000	95.96
4 Propionitrile	54		3.645	3.645	(0.873)		447087	1000.00	963.76
136 n-Hexane	57		2.768	2.768	(0.663)		330416	100.000	100.93
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)		144667	100.000	100.47
194 Acetaldehyde	44		1.209	1.209	(0.289)		107798	400.000	394.60(M)
23 Chloroprene	53		1.767	1.767	(0.423)		146540	100.000	94.79(M)
145 alpha-Methylstyrene	118		9.257	9.257	(0.958)		857105	100.000	100.18
200 Dimethyl Disulfide	94		6.194	6.194	(0.808)		912573	100.000	101.09
139 Diethyl ether	59		1.752	1.752	(0.420)		288002	100.000	94.80
130 Ethyl Acetate	43		3.649	3.649	(0.873)		318062	100.000	89.65
40 Methyl Methacrylate	41		5.606	5.606	(1.342)		295199	100.000	95.22
49 Ethyl Methacrylate	69		6.712	6.712	(1.352)		311883	100.000	96.06
132 n-Butanol	56		5.253	5.253	(1.258)		124057	2000.00	1971.40
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		109518	200.000	196.74



150 Allyl alcohol	57	2.768	2.768 (0.663)	330416	2000.00	1871.09
166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	1772216	100.000	95.31

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.683	3.683	(0.882)	308372	100.000	99.90(M)
162 Butyl acrylate	55	8.249	8.249	(1.076)	901265	100.000	103.44
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	309019	100.000	96.81
3 Chloromethane	50	1.078	1.078	(0.258)	388163	100.000	92.40
5 Vinyl Chloride	62	1.141	1.141	(0.273)	390567	100.000	98.34
6 Bromomethane	94	1.336	1.336	(0.320)	284165	100.000	93.02
7 Chloroethane	64	1.400	1.400	(0.335)	261091	100.000	94.45
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	543907	100.000	97.86
9 Acrolein	56	1.441	1.441	(0.345)	60756	200.000	192.70
10 Acetone	43	1.970	1.970	(0.472)	243517	200.000	190.92
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	329394	100.000	95.46
15 Iodomethane	142	2.026	2.026	(0.485)	958603	200.000	197.72
16 Acrylonitrile	53	2.528	2.528	(0.605)	235604	200.000	201.32
17 Methylene Chloride	84	2.300	2.300	(0.550)	423827	100.000	89.54
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1078258	100.000	95.46
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1765599	200.000	195.57
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	376933	100.000	97.60
21 Vinyl Acetate	43	2.993	2.993	(0.716)	1955305	200.000	197.21
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	641083	100.000	94.59
24 2-Butanone	43	3.570	3.570	(0.855)	264221	200.000	192.38(H)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	554902	100.000	96.43
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	443532	100.000	94.37
28 Chloroform	83	3.904	3.904	(0.935)	715830	100.000	94.23
29 Bromochloromethane	128	3.792	3.792	(0.908)	239022	100.000	92.88
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	438954	100.000	100.72
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	583361	100.000	96.79
32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	496096	100.000	101.35
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	553661	100.000	98.01
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	487488	100.000	93.26
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	455890	100.000	98.67
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	689427	50.0000	
37 Benzene	78	4.508	4.508	(0.908)	1590142	100.000	96.58
38 Trichloroethene	130	5.205	5.205	(1.048)	456948	100.000	97.85
39 Bromodichloromethane	83	5.722	5.722	(1.153)	587419	100.000	95.07
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	345852	200.000	196.75
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	420835	100.000	96.09
44 Dibromomethane	93	5.550	5.550	(1.118)	280146	100.000	94.11
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	671115	200.000	188.25
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	735867	100.000	101.41
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	666948	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1602890	100.000	97.25
50 Toluene	91	6.446	6.446	(0.841)	1761917	100.000	95.57
51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	618784	100.000	102.75
52 2-Hexanone	43	7.087	7.087	(0.924)	458639	200.000	189.09
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	342194	100.000	92.52
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	682500	100.000	93.75
55 Dibromochloromethane	129	7.173	7.173	(0.935)	521219	100.000	97.64
56 Tetrachloroethene	164	6.925	6.925	(0.903)	373651	100.000	97.96
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	453499	100.000	98.07
58 1-Chlorohexane	55	7.694	7.694	(1.550)	326538	100.000	98.00
59 Chlorobenzene	112	7.694	7.694	(1.003)	1229287	100.000	94.01
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	472962	100.000	97.19



61 Ethylbenzene	106	7.799	7.799 (1.017)	612289	100.000	99.40
62 m,p-Xylenes	106	7.904	7.904 (1.031)	1556563	200.000	196.03



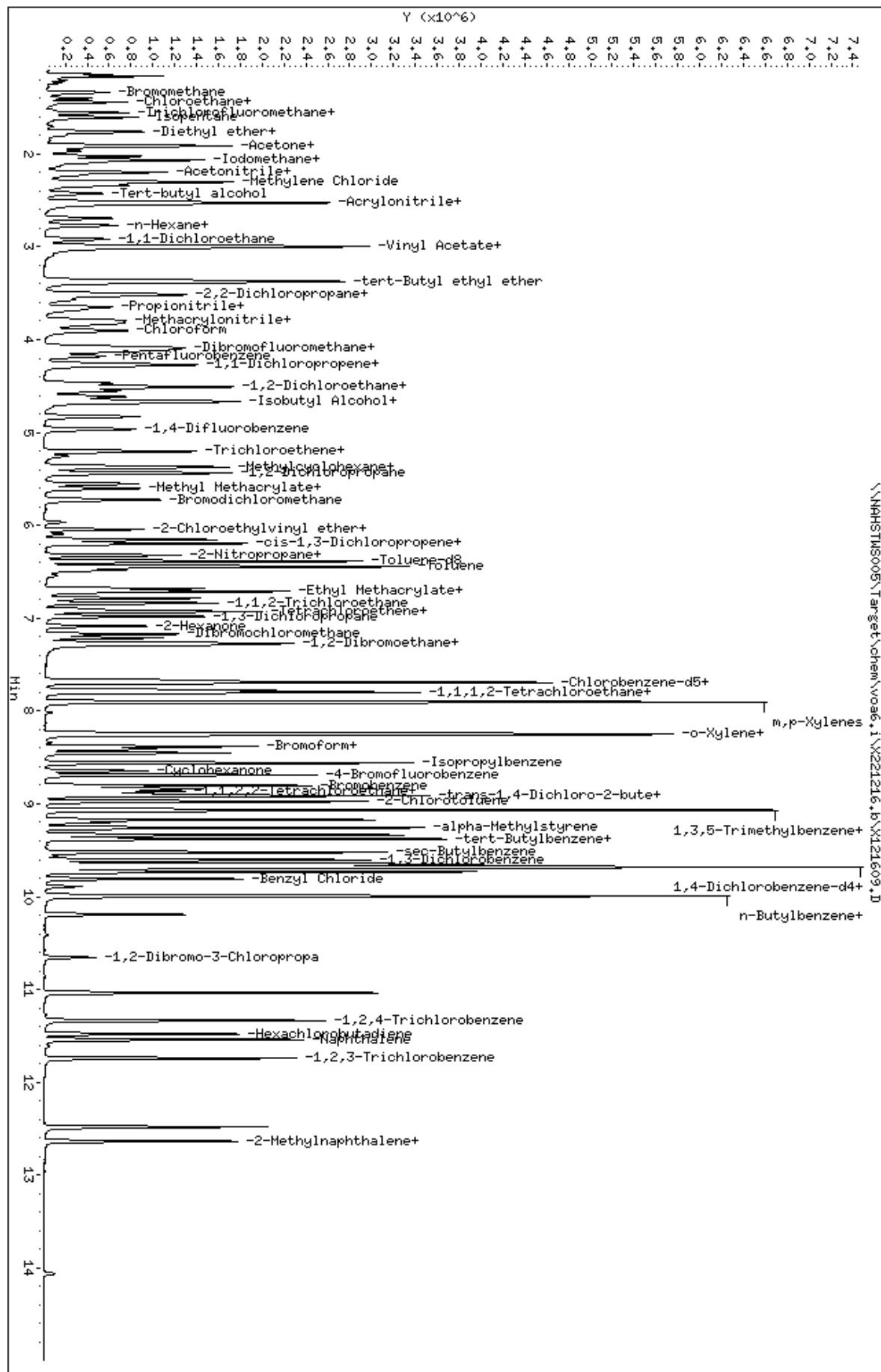
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.075)	767814	100.000	97.97
64 Styrene	104	8.260	8.260	(1.077)	1350780	100.000	102.83
66 Bromoform	173	8.410	8.410	(1.097)	367943	100.000	99.50
67 Isopropylbenzene	105	8.560	8.560	(1.116)	1818857	100.000	101.58
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	554091	100.000	90.03
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	615584	100.000	99.86
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386107	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	407425	100.000	94.83(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	2152414	100.000	100.64
74 Bromobenzene	156	8.803	8.803	(0.911)	602819	100.000	95.16
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1603520	100.000	101.49
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	1326500	100.000	94.51
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1587855	100.000	99.24
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	1287608	100.000	99.56
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1640529	100.000	98.68
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1778581	100.000	103.36
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	1606121	100.000	104.16
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	1039293	100.000	98.84
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1114780	100.000	97.16
86 Benzyl Chloride	91	9.808	9.808	(1.279)	1009234	100.000	94.18
87 n-Butylbenzene	91	9.992	9.992	(1.034)	1425779	100.000	94.31
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1054319	100.000	97.36
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	94321	100.000	95.78
90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	697257	100.000	102.03
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	299042	100.000	97.63
92 Naphthalene	128	11.540	11.540	(1.194)	1592534	100.000	102.42
93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	642199	100.000	98.12
M 94 1,2-Dichloroethylene (total)	96				820465	200.000	
M 95 Xylenes (total)	106				2324377	300.000	
141 Cyclohexane	56	4.118	4.118	(0.986)	432198	100.000	93.19
138 Freon TF	101	1.913	1.913	(0.458)	327614	100.000	98.16
147 Methylcyclohexane	55	5.377	5.377	(1.083)	862071	100.000	102.15(A)
146 Methyl Acetate	43	2.228	2.228	(0.533)	196542	100.000	96.07
148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	592215	2000.00	1881.19
149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	321288	2000.00	1954.21

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: \\NAHSTMS005\Target\chem\voa6.i\X221216.b\X121609.D
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 Client ID: WSTD100
 Sample Info: WSTD100;WSTD100;118;
 Purge Volume: 5.0
 Column phase: DB624

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

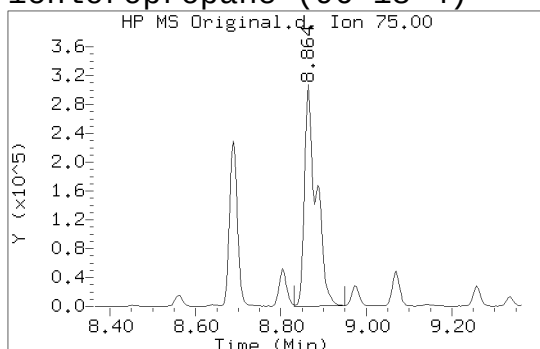


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Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

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

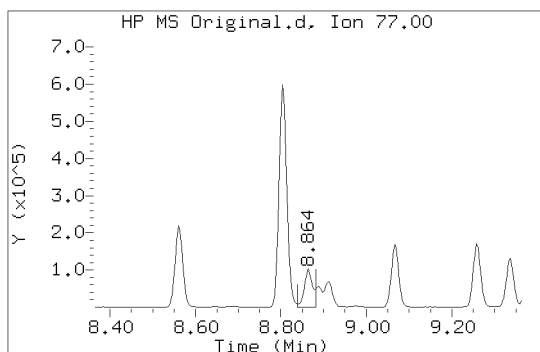
BEFORE

MASS
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AREA
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HEIGHT
307037
27-Dec-2022
16:03
linh



BEFORE

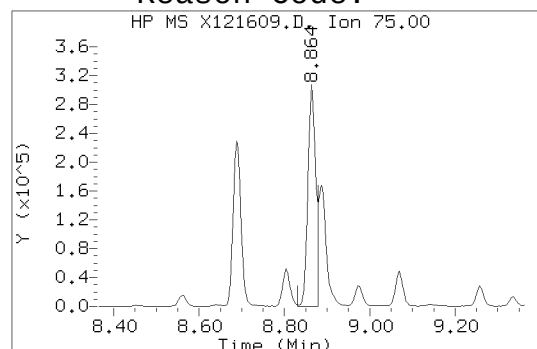
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linh
pham



AFTER

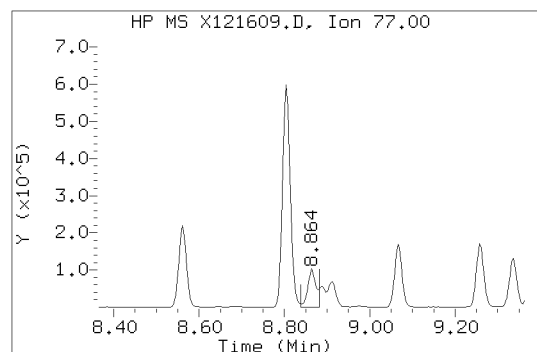
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Reason Code:



AFTER

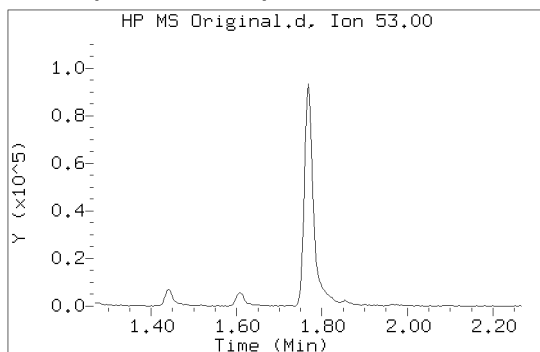
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AREA
149362
HEIGHT
103354
27-Dec-2022
16:06
linh
pham



Chloroprene (126-99-8)

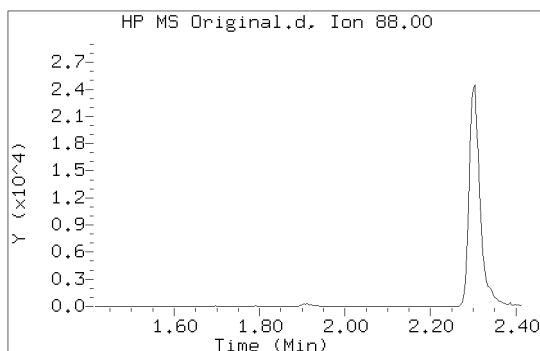
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AREA
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0
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16:03
linh
pham



BEFORE

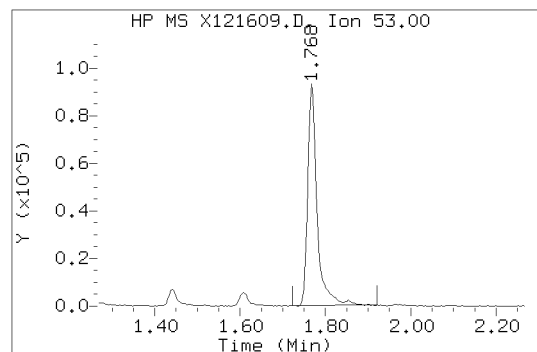
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AREA
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HEIGHT
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16:03
linh
pham



AFTER

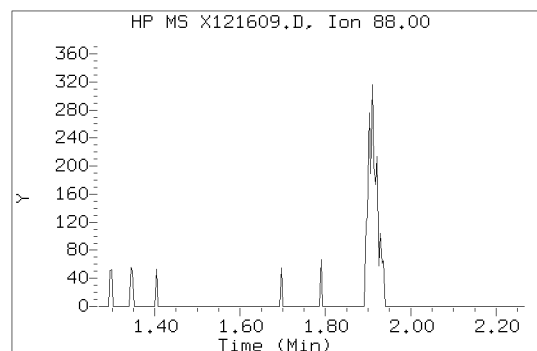
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linh
pham

Reason Code:



AFTER

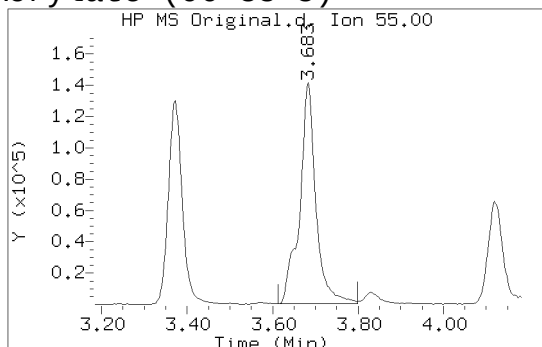
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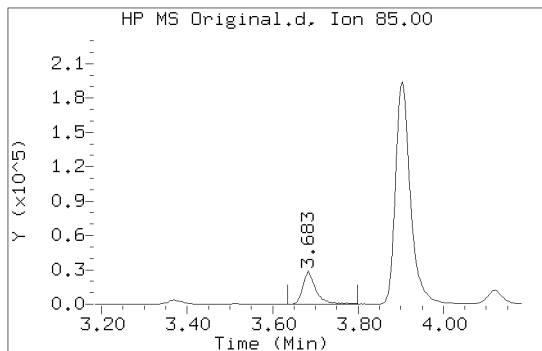
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Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

Methyl Acrylate (96-33-3)**BEFORE**

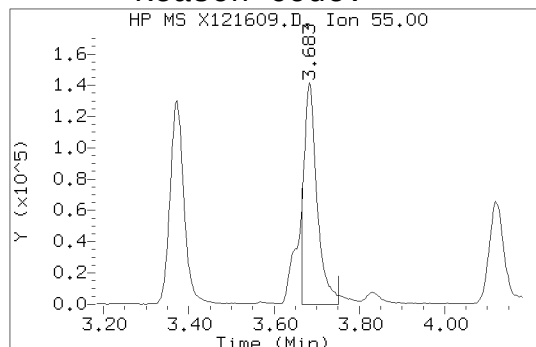
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AREA
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HEIGHT
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16:03
linh

**BEFORE**

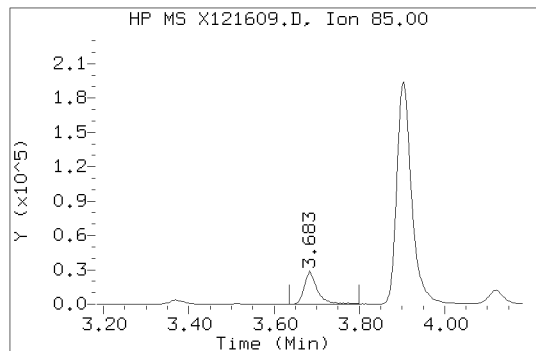
MASS
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AREA
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HEIGHT
29192
27-Dec-2022
16:03
linh
pham

**AFTER**

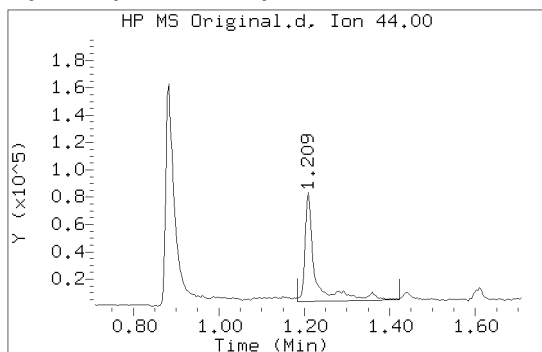
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AREA
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27-Dec-2022
16:06
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**AFTER**

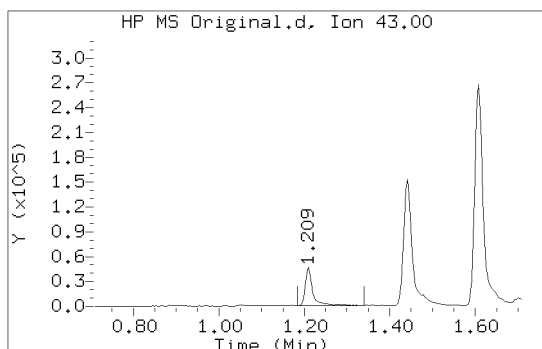
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AREA
62241
HEIGHT
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27-Dec-2022
16:06
linh
pham

**Acetaldehyde (75-07-0)****BEFORE**

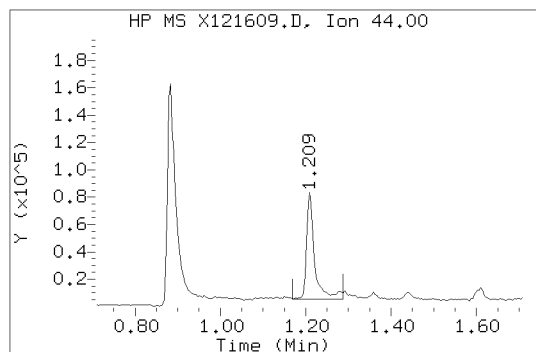
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AREA
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HEIGHT
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16:03
linh
pham

**BEFORE**

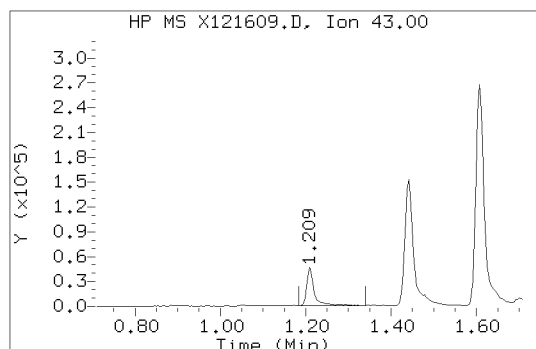
MASS
43
AREA
58307
HEIGHT
46134
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
44
AREA
107798
HEIGHT
78310
27-Dec-2022
16:06
linh
pham

**AFTER**

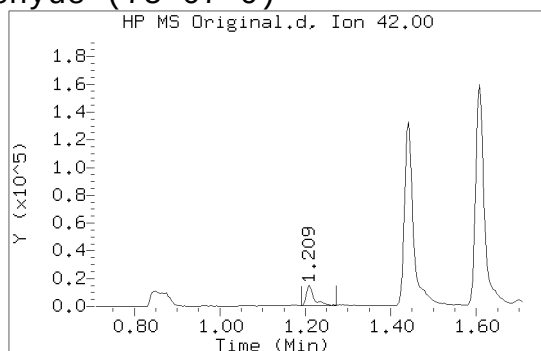
MASS
43
AREA
58307
HEIGHT
46134
27-Dec-2022
16:06
linh
pham



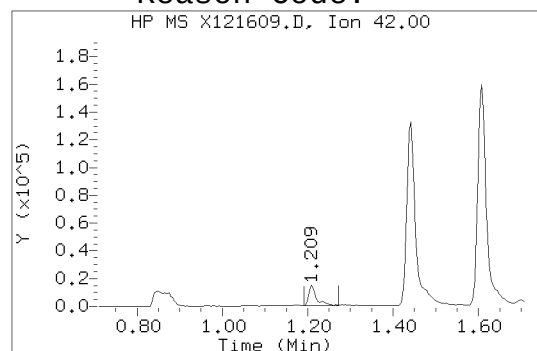
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Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)**BEFORE**

MASS
42
AREA
19613
HEIGHT
14674
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
42
AREA
19613
HEIGHT
14674
27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D
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 Inj Date : 16-DEC-2022 14:46
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD150;VSTD150;1;9;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:25 Cal File: X121609.D
 Als bottle: 11 Calibration Sample, Level: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		447266	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		128845	3000.00	3151.41
140 1,3-Butadiene	54		1.160	1.160	(0.278)		468966	150.000	152.77
25 Methacrylonitrile	41		3.818	3.818	(0.914)		457301	150.000	144.39
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		1595753	3000.00	3171.99
13 Acetonitrile	39		2.194	2.194	(0.525)		642798	1500.00	1579.09
14 Allyl Chloride	41		2.194	2.194	(0.525)		1164663	150.000	150.22
4 Propionitrile	54		3.649	3.649	(0.873)		694740	1500.00	1522.31
136 n-Hexane	57		2.768	2.768	(0.663)		533876	150.000	165.78
72 trans-1,4-Dichloro-2-butene	53		8.889	8.889	(1.159)		234252	150.000	161.53
194 Acetaldehyde	44		1.209	1.209	(0.289)		161053	600.000	611.34(M)
23 Chloroprene	53		1.767	1.767	(0.423)		225733	150.000	148.43
145 alpha-Methylstyrene	118		9.257	9.257	(0.958)		1351001	150.000	157.73
200 Dimethyl Disulfide	94		6.198	6.198	(0.808)		1420820	150.000	156.27
139 Diethyl ether	59		1.752	1.752	(0.419)		443624	150.000	148.44
130 Ethyl Acetate	43		3.649	3.649	(0.873)		516433	150.000	147.97
40 Methyl Methacrylate	41		5.602	5.602	(1.341)		465959	150.000	152.78
49 Ethyl Methacrylate	69		6.712	6.712	(1.352)		517063	150.000	157.90
132 n-Butanol	56		5.253	5.253	(1.258)		210842	3000.00	3100.52
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		162133	300.000	297.65



150 Allyl alcohol	57	2.768	2.768 (0.663)	533876	3000.00	3073.09
166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	2744011	150.000	147.41

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.683	3.683 (0.882)		479571	150.000	157.93(M)
162 Butyl acrylate	55	8.248	8.248 (1.076)		1470193	150.000	167.53
2 Dichlorodifluoromethane	85	0.969	0.969 (0.232)		476130	150.000	151.40
3 Chloromethane	50	1.077	1.077 (0.258)		621048	150.000	148.89
5 Vinyl Chloride	62	1.141	1.141 (0.273)		602774	150.000	154.27
6 Bromomethane	94	1.332	1.332 (0.319)		470318	150.000	155.29
7 Chloroethane	64	1.400	1.400 (0.335)		409168	150.000	150.45
8 Trichlorofluoromethane	101	1.557	1.557 (0.373)		866865	150.000	158.54
9 Acrolein	56	1.441	1.441 (0.345)		96139	300.000	308.25
10 Acetone	43	1.969	1.969 (0.472)		373504	300.000	297.68
11 1,1-Dichloroethene	96	1.910	1.910 (0.457)		516820	150.000	152.24
15 Iodomethane	142	2.022	2.022 (0.484)		1554547	300.000	304.69
16 Acrylonitrile	53	2.528	2.528 (0.605)		371872	300.000	323.00
17 Methylene Chloride	84	2.299	2.299 (0.550)		656037	150.000	140.89
18 Methyl tert-butyl ether	73	2.532	2.532 (0.606)		1661314	150.000	149.51
19 Carbon Disulfide	76	2.063	2.063 (0.494)		2747788	300.000	309.38
20 trans-1,2-Dichloroethene	96	2.524	2.524 (0.604)		579939	150.000	152.65
21 Vinyl Acetate	43	2.993	2.993 (0.716)		3127175	300.000	320.61
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)		993924	150.000	149.06
24 2-Butanone	43	3.570	3.570 (0.855)		407629	300.000	299.97(H)
26 2,2-Dichloropropane	77	3.506	3.506 (0.839)		858853	150.000	151.71
27 cis-1,2-Dichloroethene	96	3.521	3.521 (0.843)		693846	150.000	150.07
28 Chloroform	83	3.904	3.904 (0.935)		1135322	150.000	151.92
29 Bromochloromethane	128	3.791	3.791 (0.908)		379595	150.000	149.95
\$ 30 Dibromofluoromethane	113	4.095	4.095 (0.980)		652724	150.000	152.32
31 1,1,1-Trichloroethane	97	4.080	4.080 (0.977)		907111	150.000	152.99
32 1,1-Dichloropropene	75	4.279	4.279 (0.862)		766313	150.000	155.22
33 1,2-Dichloroethane	62	4.552	4.552 (0.917)		857022	150.000	150.42
34 Carbon Tetrachloride	117	4.264	4.264 (0.859)		758288	150.000	143.83
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470 (1.070)		686218	150.000	150.83
* 36 1,4-Difluorobenzene	114	4.965	4.965 (1.000)		695375	50.0000	
37 Benzene	78	4.511	4.511 (0.909)		2450385	150.000	147.56
38 Trichloroethene	130	5.205	5.205 (1.048)		707016	150.000	150.11
39 Bromodichloromethane	83	5.722	5.722 (1.153)		932632	150.000	149.65
41 2-Chloroethylvinyl ether	63	6.044	6.044 (1.217)		534005	300.000	301.19
42 1,2-Dichloropropane	63	5.433	5.433 (1.094)		658007	150.000	148.96
44 Dibromomethane	93	5.549	5.549 (1.118)		444851	150.000	148.16
45 4-Methyl-2-Pentanone	43	6.325	6.325 (0.825)		1052577	300.000	293.14
46 cis-1,3-Dichloropropene	75	6.153	6.153 (1.239)		1159982	150.000	158.49
* 47 Chlorobenzene-d5	117	7.667	7.667 (1.000)		671780	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385 (0.833)		2346444	150.000	141.35
50 Toluene	91	6.445	6.445 (0.841)		2724692	150.000	146.73
51 trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)		982044	150.000	161.68
52 2-Hexanone	43	7.086	7.086 (0.924)		738082	300.000	302.12
53 1,1,2-Trichloroethane	83	6.839	6.839 (0.892)		540625	150.000	145.13
54 1,3-Dichloropropane	76	6.981	6.981 (0.911)		1079961	150.000	147.29
55 Dibromochloromethane	129	7.176	7.176 (0.936)		822094	150.000	152.90
56 Tetrachloroethene	164	6.929	6.929 (0.904)		574499	150.000	149.53
57 1,2-Dibromoethane	107	7.259	7.259 (0.947)		715678	150.000	153.66
58 1-Chlorohexane	55	7.697	7.697 (1.550)		522502	150.000	155.48
59 Chlorobenzene	112	7.694	7.694 (1.003)		1944205	150.000	147.62
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772 (1.014)		744470	150.000	151.89



61 Ethylbenzene	106	7.799	7.799 (1.017)	946928	150.000	152.63
62 m,p-Xylenes	106	7.904	7.904 (1.031)	2421267	300.000	302.75



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.075)	1210374	150.000	153.33
64 Styrene	104	8.260	8.260	(1.077)	2169528	150.000	163.97
66 Bromoform	173	8.410	8.410	(1.097)	588916	150.000	158.11
67 Isopropylbenzene	105	8.560	8.560	(1.116)	2877359	150.000	159.55
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	873933	150.000	141.84
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	936681	150.000	150.82
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386546	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	702545	150.000	163.33
73 n-Propylbenzene	91	8.912	8.912	(0.922)	3370402	150.000	157.41
74 Bromobenzene	156	8.803	8.803	(0.911)	952608	150.000	150.20
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2529726	150.000	159.93
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	2083510	150.000	148.28
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	2540753	150.000	158.62
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	2055293	150.000	158.74
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2613455	150.000	157.03
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	2819238	150.000	163.65
82 p-Isopropyltoluene	119	9.650	9.650	(0.999)	2542764	150.000	164.71
83 1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	1650440	150.000	156.79
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	1766146	150.000	153.76
86 Benzyl Chloride	91	9.808	9.808	(1.279)	1650494	150.000	151.23
87 n-Butylbenzene	91	9.992	9.992	(1.034)	2293126	150.000	150.43
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1672283	150.000	154.25
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	149691	150.000	151.78
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1094701	150.000	160.01
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	466452	150.000	150.10
92 Naphthalene	128	11.540	11.540	(1.194)	2498440	150.000	160.50
93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	991236	150.000	151.28
M 94 1,2-Dichloroethylene (total)	96				1273785	300.000	
M 95 Xylenes (total)	106				3631641	450.000	
141 Cyclohexane	56	4.117	4.117	(0.986)	682728	150.000	148.87
138 Freon TF	101	1.910	1.910	(0.457)	517229	150.000	157.53
147 Methylcyclohexane	55	5.377	5.377	(1.083)	1358300	150.000	159.57(A)
146 Methyl Acetate	43	2.224	2.224	(0.533)	301298	150.000	149.70
148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	962267	3000.00	3107.07
149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	514966	3000.00	3183.89

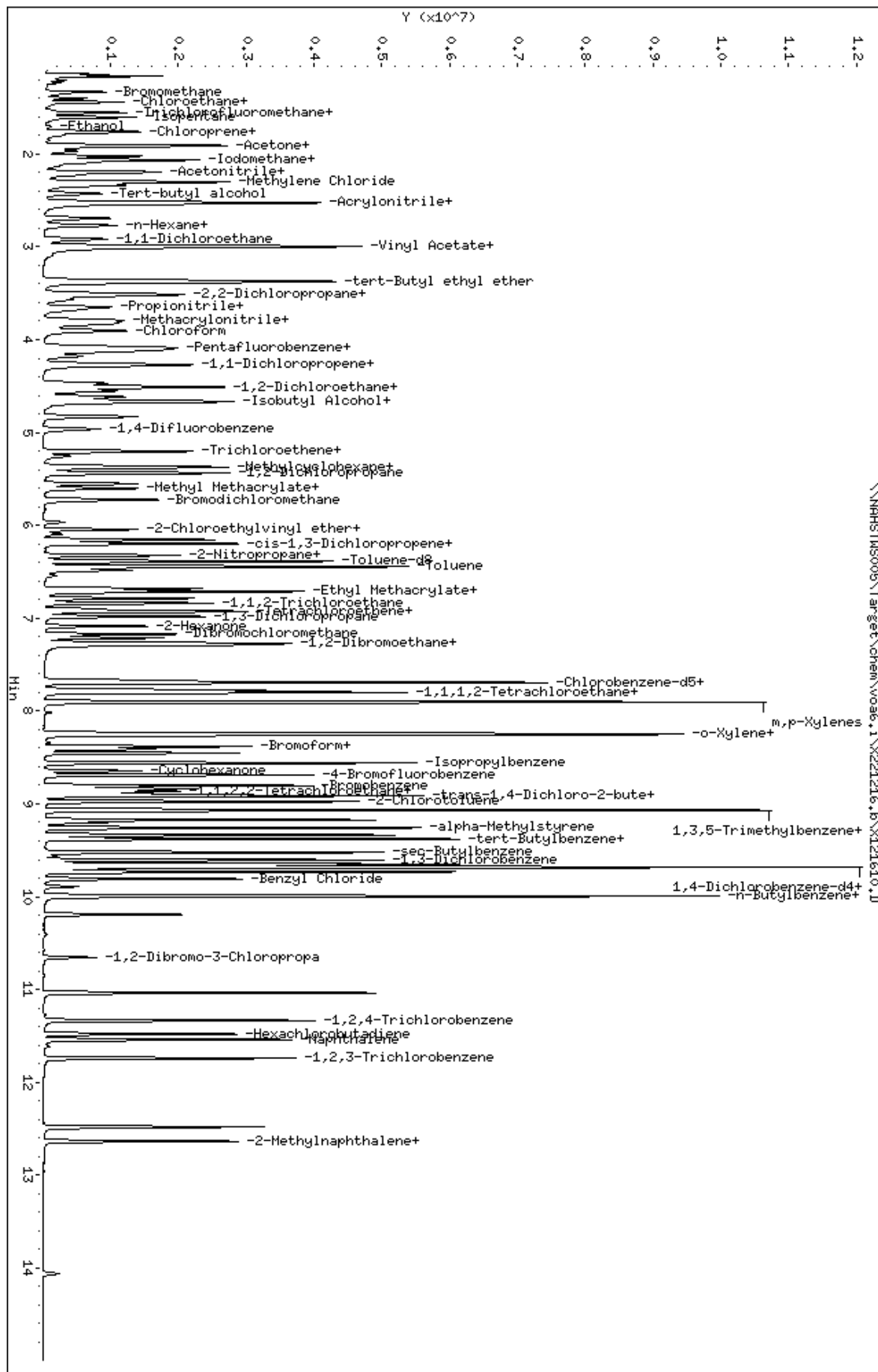
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.



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Client ID: WSTD150
Sample Info: WSTD150;WSTD150;1;9;
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Column phase: DB624

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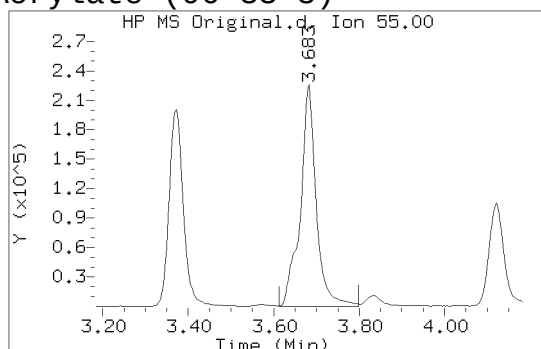


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LabSampID : VSTD150

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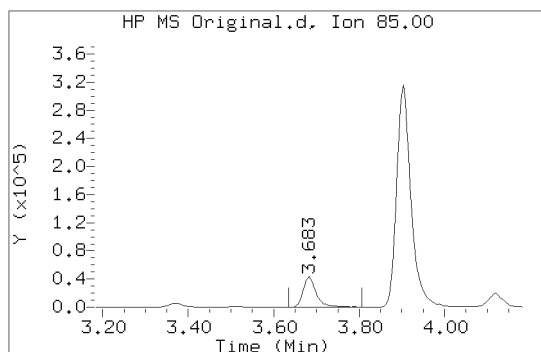
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16:04
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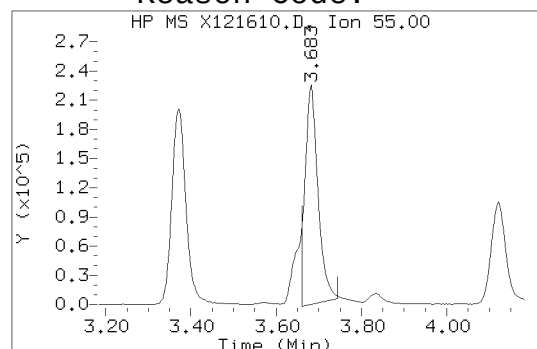
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pham



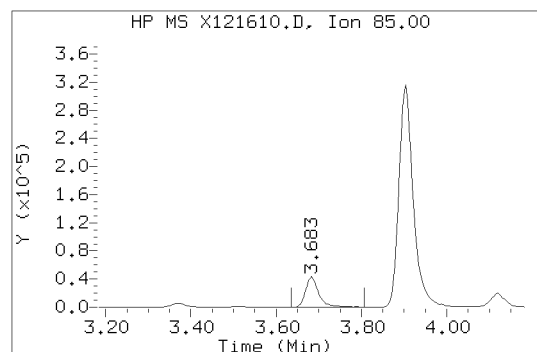
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AFTER

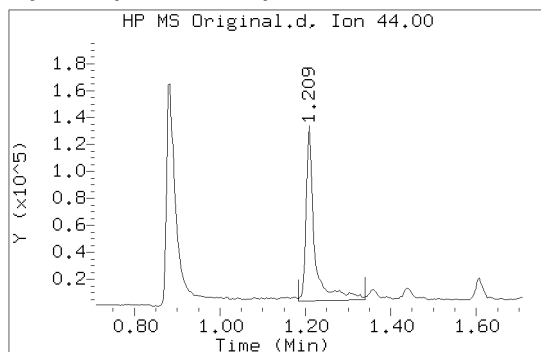
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Acetaldehyde (75-07-0)

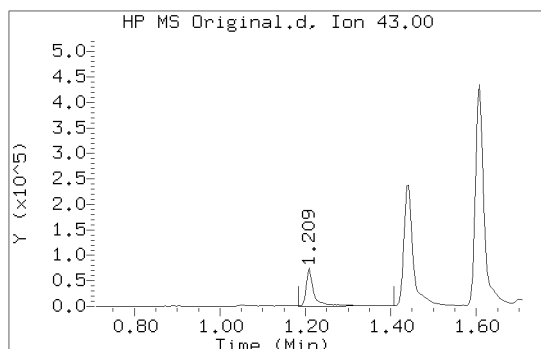
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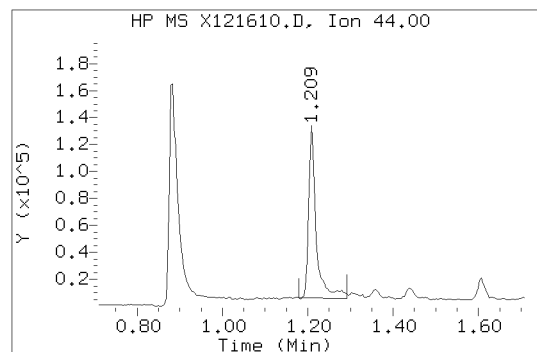
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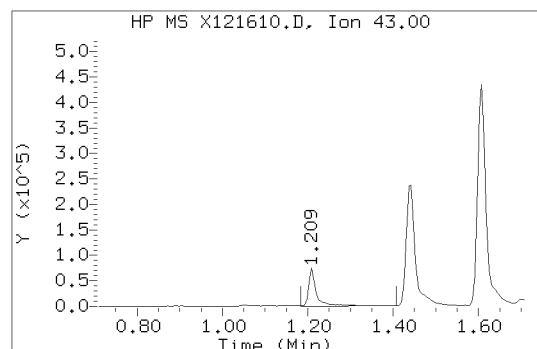
AFTER

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AFTER

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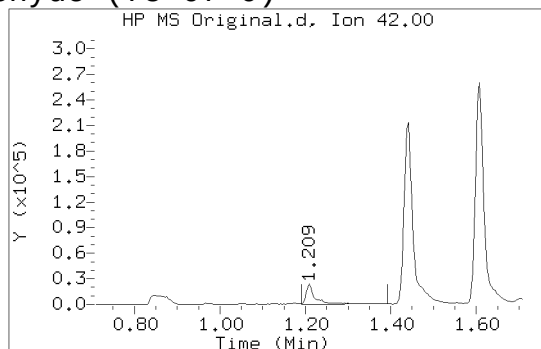


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InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

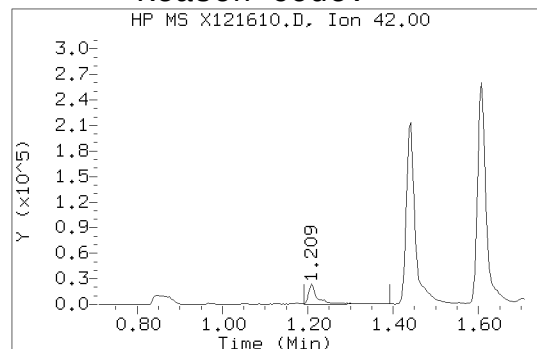
BEFORE

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27-Dec-2022
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AFTER

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HEIGHT
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D
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 Inj Date : 16-DEC-2022 15:07
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 Smp Info : VSTD200;VSTD200;1;10;
 Misc Info : V6;WATER;0;1;
 Comment :
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 Cal Date : 16-DEC-2022 14:46 Cal File: X121610.D
 Als bottle: 12 Calibration Sample, Level: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		450847	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		179280	4000.00	4350.17(A)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		646265	200.000	208.86(A)
25 Methacrylonitrile	41		3.814	3.814	(0.913)		619479	200.000	194.04
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		2146631	4000.00	4233.12(A)
13 Acetonitrile	39		2.195	2.195	(0.525)		854153	2000.00	2081.63(A)
14 Allyl Chloride	41		2.195	2.195	(0.525)		1558053	200.000	199.36
4 Propionitrile	54		3.649	3.649	(0.873)		933721	2000.00	2029.71(A)
136 n-Hexane	57		2.768	2.768	(0.663)		726173	200.000	223.70(A)
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)		324976	200.000	217.73(A)
194 Acetaldehyde	44		1.209	1.209	(0.289)		205547	800.000	780.23(M)
23 Chloroprene	53		1.767	1.767	(0.423)		315248	200.000	205.64(A)
145 alpha-Methylstyrene	118		9.261	9.261	(0.958)		1880547	200.000	211.54(A)
200 Dimethyl Disulfide	94		6.198	6.198	(0.808)		1929723	200.000	206.22(A)
139 Diethyl ether	59		1.752	1.752	(0.419)		595638	200.000	197.72
130 Ethyl Acetate	43		3.649	3.649	(0.873)		706790	200.000	200.90(A)
40 Methyl Methacrylate	41		5.602	5.602	(1.341)		643877	200.000	209.45(A)
49 Ethyl Methacrylate	69		6.715	6.715	(1.353)		735246	200.000	222.23(A)
132 n-Butanol	56		5.253	5.253	(1.258)		297334	4000.00	3955.86
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		219995	400.000	401.77(A)



150 Allyl alcohol	57	2.768	2.768 (0.663)	726173	4000.00	4146.79(A)
166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	3701988	200.000	191.61



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 2
Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.683	3.683	(0.882)	646827	200.000	211.32(AM)
162 Butyl acrylate	55	8.252	8.252	(1.076)	2063916	200.000	228.52(A)
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	635808	200.000	200.44(A)
3 Chloromethane	50	1.074	1.074	(0.257)	865151	200.000	204.92(A)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	827926	200.000	210.21(A)
6 Bromomethane	94	1.329	1.329	(0.318)	666705	200.000	217.67(A)
7 Chloroethane	64	1.396	1.396	(0.334)	548415	200.000	200.06(A)
8 Trichlorofluoromethane	101	1.553	1.553	(0.372)	1173529	200.000	212.92(A)
9 Acrolein	56	1.437	1.437	(0.344)	125874	400.000	399.54
10 Acetone	43	1.970	1.970	(0.472)	514105	400.000	406.50(A)
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	704695	200.000	205.94(A)
15 Iodomethane	142	2.022	2.022	(0.484)	2193685	400.000	398.07
16 Acrylonitrile	53	2.528	2.528	(0.605)	504850	400.000	435.02(A)
17 Methylene Chloride	84	2.299	2.299	(0.550)	863945	200.000	184.07
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	2237559	200.000	199.78
19 Carbon Disulfide	76	2.067	2.067	(0.495)	3829593	400.000	427.76(A)
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	785444	200.000	205.10(A)
21 Vinyl Acetate	43	2.993	2.993	(0.716)	4210603	400.000	428.26(A)
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	1342786	200.000	199.79
24 2-Butanone	43	3.570	3.570	(0.855)	555896	400.000	404.77(AH)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	1175128	200.000	205.93(A)
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	927934	200.000	199.10
28 Chloroform	83	3.904	3.904	(0.935)	1523082	200.000	202.19(A)
29 Bromochloromethane	128	3.791	3.791	(0.908)	510028	200.000	199.87
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	856027	200.000	198.23
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	1257327	200.000	210.37(A)
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1048877	200.000	210.29(A)
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	1153034	200.000	200.31(A)
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	1051824	200.000	197.48
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	919752	200.000	200.47(A)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	702551	50.0000	
37 Benzene	78	4.511	4.511	(0.909)	3321582	200.000	197.98
38 Trichloroethene	130	5.205	5.205	(1.048)	973709	200.000	204.62(A)
39 Bromodichloromethane	83	5.722	5.722	(1.153)	1264834	200.000	200.88(A)
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	729151	400.000	407.06(A)
42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	895211	200.000	200.59(A)
44 Dibromomethane	93	5.550	5.550	(1.118)	600170	200.000	197.85
45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1447268	400.000	391.63
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1583645	200.000	214.16(A)
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	691386	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.832)	3061758	200.000	179.21
50 Toluene	91	6.445	6.445	(0.840)	3757557	200.000	196.62
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	1365007	200.000	222.44(A)
52 2-Hexanone	43	7.086	7.086	(0.924)	1026898	400.000	408.42(A)
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	736981	200.000	192.23
54 1,3-Dichloropropane	76	6.982	6.982	(0.910)	1482067	200.000	196.39
55 Dibromochloromethane	129	7.176	7.176	(0.936)	1128140	200.000	203.88(A)
56 Tetrachloroethene	164	6.929	6.929	(0.903)	798932	200.000	202.05(A)
57 1,2-Dibromoethane	107	7.259	7.259	(0.946)	970608	200.000	202.48(A)
58 1-Chlorohexane	55	7.698	7.698	(1.550)	746326	200.000	219.81(A)
59 Chlorobenzene	112	7.694	7.694	(1.003)	2696715	200.000	198.95
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	1028448	200.000	203.88(A)



61 Ethylbenzene	106	7.799	7.799 (1.017)	1312165	200.000	205.50(A)
62 m,p-Xylenes	106	7.904	7.904 (1.030)	3401207	400.000	413.22(A)



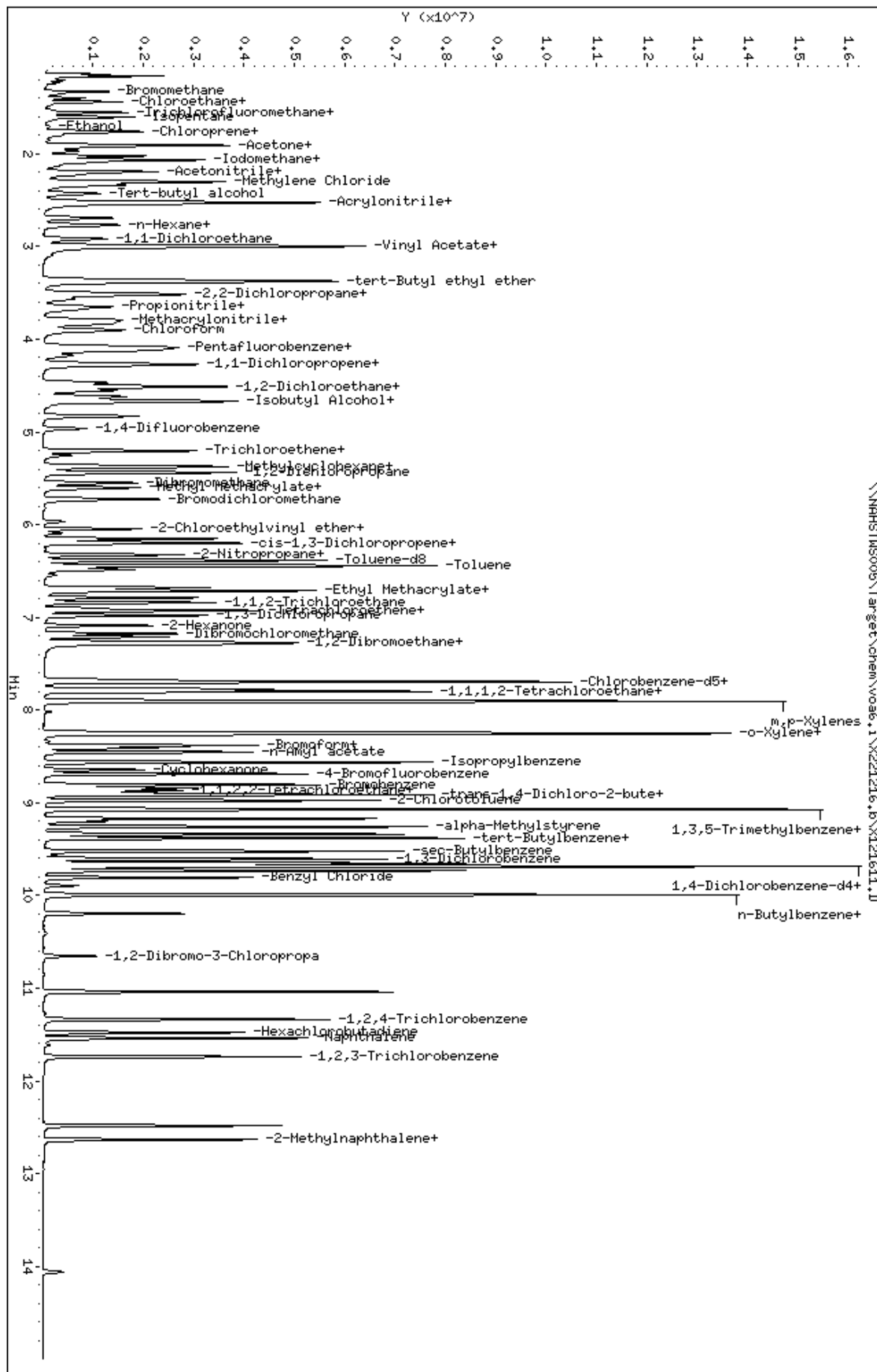
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 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.074)	1701245	200.000	209.41(A)
64 Styrene	104	8.260	8.260	(1.077)	3030858	200.000	222.58(A)
66 Bromoform	173	8.410	8.410	(1.096)	809693	200.000	211.22(A)
67 Isopropylbenzene	105	8.563	8.563	(1.116)	4031708	200.000	217.22(A)
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	1186926	200.000	185.61
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.132)	1277239	200.000	199.81
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	401196	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	864931	200.000	193.75(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	4694239	200.000	211.23(A)
74 Bromobenzene	156	8.807	8.807	(0.911)	1313631	200.000	199.57
75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	3532485	200.000	215.17(A)
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	2866849	200.000	196.59
77 4-Chlorotoluene	91	9.070	9.070	(0.938)	3546402	200.000	213.32(A)
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	2865820	200.000	213.26(A)
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	3599947	200.000	208.40(A)
81 sec-Butylbenzene	105	9.523	9.523	(0.985)	3952917	200.000	221.08(A)
82 p-Isopropyltoluene	119	9.651	9.651	(0.998)	3537904	200.000	220.81(A)
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	2282597	200.000	208.93(A)
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	2442324	200.000	204.86(A)
86 Benzyl Chloride	91	9.808	9.808	(1.279)	2286488	200.000	202.63(A)
87 n-Butylbenzene	91	9.995	9.995	(1.034)	3216534	200.000	202.68(A)
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	2296902	200.000	204.14(A)
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.102)	205063	200.000	200.30(A)
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1524896	200.000	214.75(A)
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	654615	200.000	200.27(A)
92 Naphthalene	128	11.540	11.540	(1.194)	3413593	200.000	211.29(A)
93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.214)	1363987	200.000	200.56(A)
M 94 1,2-Dichloroethylene (total)	96				1713378	400.000	
M 95 Xylenes (total)	106				5102452	600.000	
141 Cyclohexane	56	4.121	4.121	(0.987)	943314	200.000	203.60(A)
138 Freon TF	101	1.910	1.910	(0.457)	714577	200.000	215.91(A)
147 Methylcyclohexane	55	5.377	5.377	(1.083)	1829310	200.000	212.71(A)
146 Methyl Acetate	43	2.224	2.224	(0.533)	408781	200.000	201.49(A)
148 Tert-Butyl alcohol	59	2.431	2.431	(0.582)	1308623	4000.00	4191.87(A)
149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	697543	4000.00	4278.45(A)

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: \\NAHSTMS005\Target\chem\voa6.i\X221216.b\X121611.D
 Date : 16-DEC-2022 15:07
 Client ID: WSTD200
 Sample Info: WSTD200;WSTD200;1;10;
 Purge Volume: 5.0
 Column phase: DB624

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

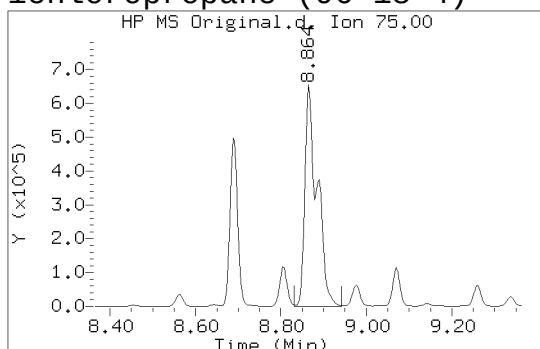


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121611.D
Inj Date : 16-DEC-2022 15:07
InstruID : voa6.i
LabSampID : VSTD200

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

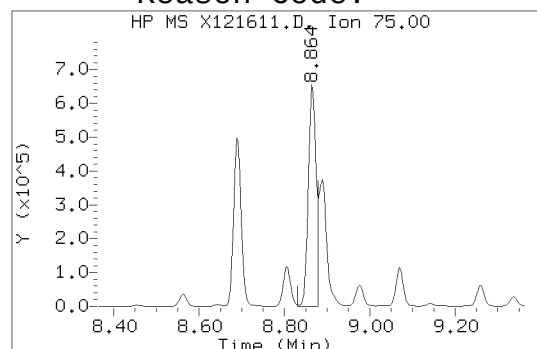
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HEIGHT
654512
27-Dec-2022
16:04
linh
pham



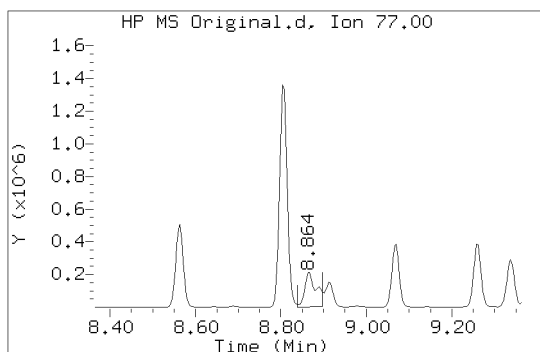
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HEIGHT
654512
27-Dec-2022
16:06
linh
pham



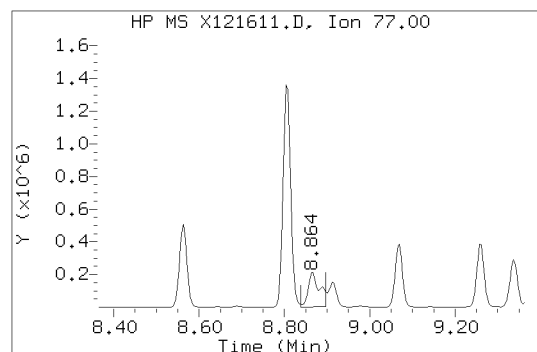
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AREA
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HEIGHT
211060
27-Dec-2022
16:04
linh
pham



AFTER

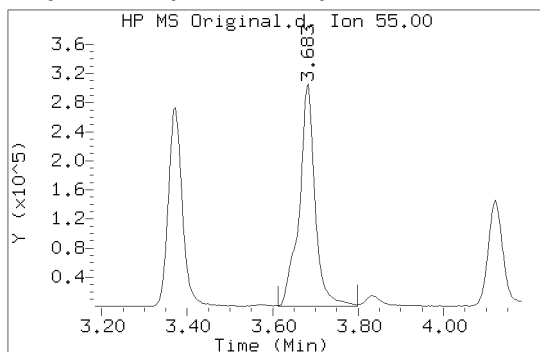
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412197
HEIGHT
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27-Dec-2022
16:06
linh
pham



Methyl Acrylate (96-33-3)

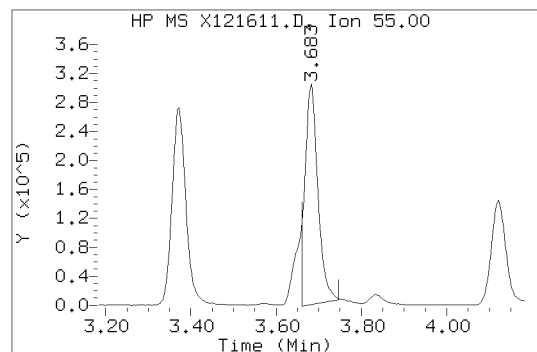
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AREA
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27-Dec-2022
16:04
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pham



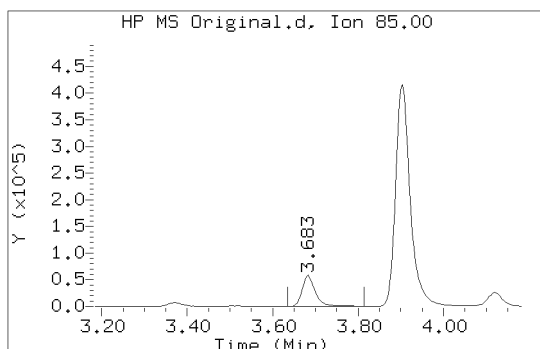
AFTER

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AREA
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HEIGHT
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27-Dec-2022
16:06
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pham



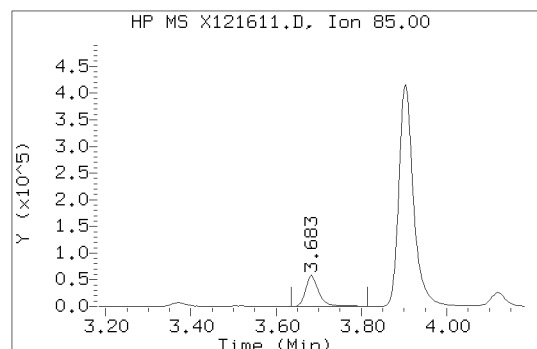
BEFORE

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HEIGHT
59160
27-Dec-2022
16:04
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AFTER

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HEIGHT
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27-Dec-2022
16:06
linh
pham

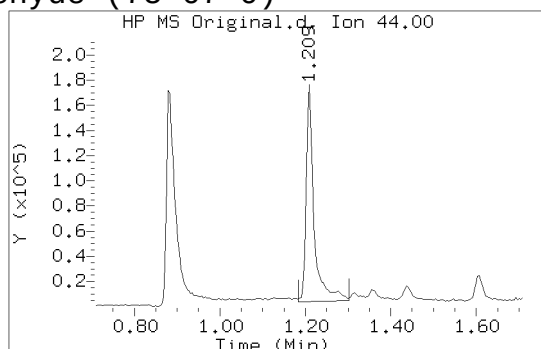


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Inj Date : 16-DEC-2022 15:07
InstruID : voa6.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

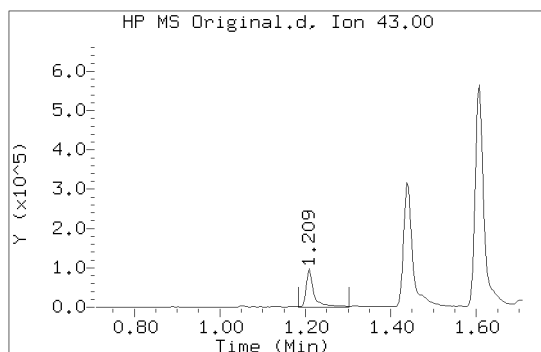
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27-Dec-2022
16:04
linh
pham



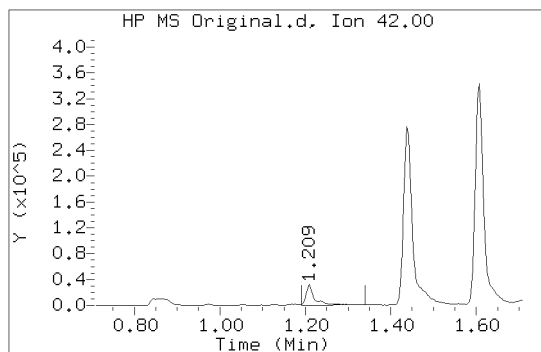
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pham



BEFORE

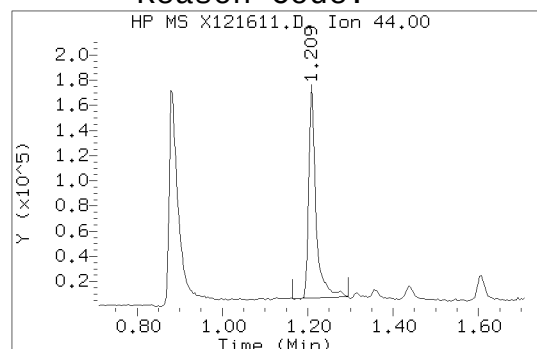
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HEIGHT
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27-Dec-2022
16:04
linh
pham



Reason Code:

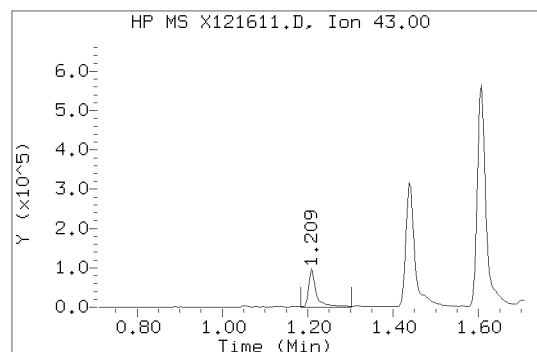
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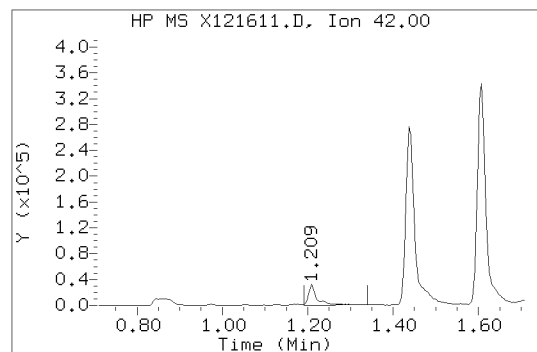
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pham



AFTER

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HEIGHT
31915
27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D
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 Inj Date : 16-DEC-2022 15:49
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV;CCV;2;;ICV
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 15:07 Cal File: X121611.D
 Als bottle: 14 QC Sample: METHSPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	457291	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	42711	1021.77	1021.76
140 1,3-Butadiene	54	1.164	1.160	(0.279)	155959	49.6927	49.69
25 Methacrylonitrile	41	3.818	3.814	(0.914)	151341	46.7389	46.73
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	505171	982.151	982.15
13 Acetonitrile	39	2.194	2.195	(0.525)	197937	475.590	475.59
14 Allyl Chloride	41	2.194	2.195	(0.525)	375064	47.3168	47.31
4 Propionitrile	54	3.649	3.649	(0.873)	227186	486.896	486.89
136 n-Hexane	57	2.768	2.768	(0.663)	183599	55.7620	55.76
72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	71513	49.7372	49.73
194 Acetaldehyde	44	1.209	1.209	(0.289)	52697	179.814	179.81(M)
23 Chloroprene	53	1.767	1.767	(0.423)	74243	47.7493	47.74(M)
145 alpha-Methylstyrene	118	9.257	9.261	(0.958)	428317	51.3094	51.30
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	437905	48.5791	48.57
139 Diethyl ether	59	1.752	1.752	(0.419)	142672	46.6930	46.69
130 Ethyl Acetate	43	3.653	3.649	(0.874)	171211	47.9808	47.98
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	148777	47.7146	47.71
49 Ethyl Methacrylate	69	6.712	6.715	(1.352)	142471	44.0730	44.07
132 n-Butanol	56	5.257	5.253	(1.258)	56842	974.397	974.39
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	61534	108.502	108.50



166 1,2,3-Trimethylbenzene	105	9.729	9.733 (1.007)	846843	46.6777	46.67
131 Methyl Acrylate	55	3.683	3.683 (0.882)	162555	52.3594	52.35



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
162 Butyl acrylate	55	8.249	8.252 (1.076)		417137	47.9449	47.94
2 Dichlorodifluoromethane	85	0.972	0.969 (0.233)		166984	52.1924	52.19
3 Chloromethane	50	1.077	1.074 (0.258)		207623	50.1741	50.17
5 Vinyl Chloride	62	1.141	1.141 (0.273)		202038	50.5766	50.57
6 Bromomethane	94	1.336	1.329 (0.320)		153541	50.7886	50.78
7 Chloroethane	64	1.400	1.396 (0.335)		134354	48.3213	48.32
8 Trichlorofluoromethane	101	1.557	1.553 (0.373)		285144	51.0083	51.00
9 Acrolein	56	1.441	1.437 (0.345)		29687	95.0682	95.06
10 Acetone	43	1.970	1.970 (0.472)		130747	101.899	101.89
11 1,1-Dichloroethene	96	1.913	1.910 (0.458)		171246	49.3414	49.34
15 Iodomethane	142	2.026	2.022 (0.485)		440111	96.4856	96.48
16 Acrylonitrile	53	2.532	2.528 (0.606)		119393	101.430	101.42
17 Methylene Chloride	84	2.299	2.299 (0.550)		226449	47.5675	47.56
18 Methyl tert-butyl ether	73	2.532	2.532 (0.606)		546711	48.1256	48.12
19 Carbon Disulfide	76	2.067	2.067 (0.495)		894433	98.5011	98.50
20 trans-1,2-Dichloroethene	96	2.528	2.524 (0.605)		194181	49.9917	49.99
21 Vinyl Acetate	43	2.997	2.993 (0.717)		1044658	104.756	104.75
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)		328530	48.1931	48.19
24 2-Butanone	43	3.574	3.570 (0.856)		132931	97.7407	97.74(H)
26 2,2-Dichloropropane	77	3.507	3.507 (0.839)		295126	50.9895	50.98
27 cis-1,2-Dichloroethene	96	3.525	3.522 (0.844)		228100	48.2538	48.25
28 Chloroform	83	3.904	3.904 (0.935)		370227	48.4556	48.45
29 Bromochloromethane	128	3.795	3.791 (0.908)		122310	47.2570	47.25
\$ 30 Dibromofluoromethane	113	4.095	4.095 (0.980)		223563	50.9182	50.91
31 1,1,1-Trichloroethane	97	4.080	4.080 (0.977)		304118	50.1673	50.16
32 1,1-Dichloropropene	75	4.279	4.279 (0.862)		254008	52.1195	52.11
33 1,2-Dichloroethane	62	4.552	4.552 (0.917)		278558	49.5262	49.52
34 Carbon Tetrachloride	117	4.264	4.260 (0.859)		255322	49.0600	49.06
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470 (1.070)		233432	50.3661	50.36
* 36 1,4-Difluorobenzene	114	4.965	4.965 (1.000)		686467	50.0000	
37 Benzene	78	4.511	4.511 (0.909)		824422	50.2921	50.29
38 Trichloroethene	130	5.205	5.205 (1.048)		238429	51.2807	51.28
39 Bromodichloromethane	83	5.726	5.722 (1.153)		302844	49.2265	49.22
41 2-Chloroethylvinyl ether	63	6.048	6.044 (1.218)		182363	104.194	104.19
42 1,2-Dichloropropane	63	5.433	5.437 (1.094)		216322	49.6089	49.60
44 Dibromomethane	93	5.550	5.550 (1.118)		145797	49.1915	49.19
45 4-Methyl-2-Pentanone	43	6.325	6.326 (0.825)		334751	94.0316	94.03
46 cis-1,3-Dichloropropene	75	6.153	6.153 (1.239)		376514	52.1120	52.11
* 47 Chlorobenzene-d5	117	7.667	7.671 (1.000)		666040	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385 (0.833)		814721	49.5021	49.50
50 Toluene	91	6.445	6.445 (0.841)		905906	49.2085	49.20
51 trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)		314805	52.5028	52.50
52 2-Hexanone	43	7.086	7.086 (0.924)		234303	96.7356	96.73
53 1,1,2-Trichloroethane	83	6.839	6.839 (0.892)		176962	47.9147	47.91
54 1,3-Dichloropropane	76	6.981	6.982 (0.911)		347689	47.8282	47.82
55 Dibromochloromethane	129	7.176	7.176 (0.936)		263907	49.5095	49.50
56 Tetrachloroethene	164	6.929	6.929 (0.904)		194246	50.9965	50.99
57 1,2-Dibromoethane	107	7.259	7.259 (0.947)		232024	50.2468	50.24
58 1-Chlorohexane	55	7.694	7.698 (1.550)		172462	51.9860	51.98
59 Chlorobenzene	112	7.694	7.694 (1.003)		631235	48.3416	48.34
60 1,1,1,2-Tetrachloroethane	131	7.772	7.776 (1.014)		236254	48.6176	48.61
61 Ethylbenzene	106	7.799	7.799 (1.017)		315635	51.3153	51.31



62 m,p-Xylenes	106	7.904	7.904 (1.031)	794307	100.175	100.17
63 o-Xylene	106	8.241	8.241 (1.075)	389371	49.7531	49.75



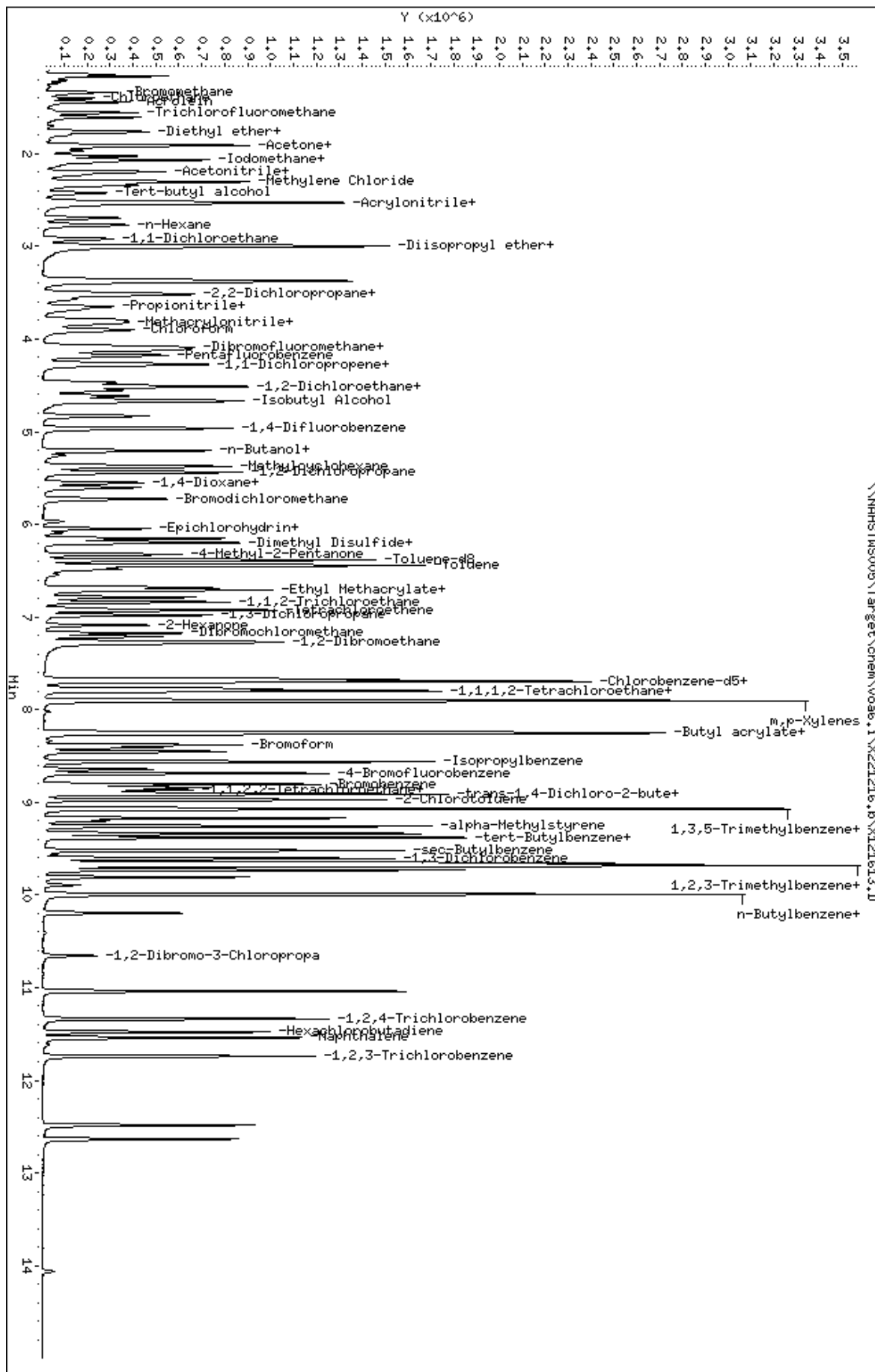
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
64 Styrene	104	8.260	8.260	(1.077)	683415	52.0997	52.09
66 Bromoform	173	8.410	8.410	(1.097)	182169	49.3304	49.33
67 Isopropylbenzene	105	8.560	8.563	(1.116)	931467	52.0964	52.09
68 1,1,2,2-Tetrachloroethane	83	8.837	8.841	(0.915)	280729	46.7506	46.75
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	307493	49.9836	49.98
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.666	(1.000)	376748	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	201551	48.0786	48.07(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1099273	52.6761	52.67
74 Bromobenzene	156	8.803	8.807	(0.911)	306751	49.6271	49.62
75 1,3,5-Trimethylbenzene	105	9.066	9.070	(0.938)	806374	52.3068	52.30
76 2-Chlorotoluene	91	8.972	8.976	(0.929)	683941	49.9441	49.94
77 4-Chlorotoluene	91	9.069	9.070	(0.939)	800114	51.2527	51.25
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	666730	52.8346	52.83
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	832541	51.3249	51.32
81 sec-Butylbenzene	105	9.519	9.523	(0.985)	909529	54.1700	54.16
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	823827	54.7550	54.75
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	525438	51.2160	51.21
84 1,4-Dichlorobenzene	146	9.681	9.684	(1.002)	556610	49.7188	49.71
87 n-Butylbenzene	91	9.995	9.995	(1.035)	735043	50.6672	50.66
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	523296	49.5268	49.52
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48516	50.5353	50.53
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	364475	54.6601	54.66
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	170927	57.7383	57.73
92 Naphthalene	128	11.544	11.540	(1.195)	799121	52.6729	52.67
93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	337140	52.7917	52.79
M 94 1,2-Dichloroethylene (total)	96				422281	98.2454	98.24
M 95 Xylenes (total)	106				1183678	149.928	149.92
141 Cyclohexane	56	4.121	4.121	(0.987)	238664	51.7326	51.73
138 Freon TF	101	1.913	1.910	(0.458)	177599	52.9072	52.90
147 Methylcyclohexane	55	5.377	5.377	(1.083)	427649	50.8929	50.89
146 Methyl Acetate	43	2.228	2.224	(0.533)	99131	48.1755	48.17
148 Tert-Butyl alcohol	59	2.423	2.431	(0.580)	311463	983.641	983.64
149 Isopropyl Alcohol	45	2.090	2.093	(0.500)	170003	1028.04	1028.03

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.





Data File: \\NAHSTMS005\Target\chem\voa6.i\X221216.b\X121613.D
 Date : 16-DEC-2022 15:49
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 Purge Volume: 5.0
 Column phase: DB624

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

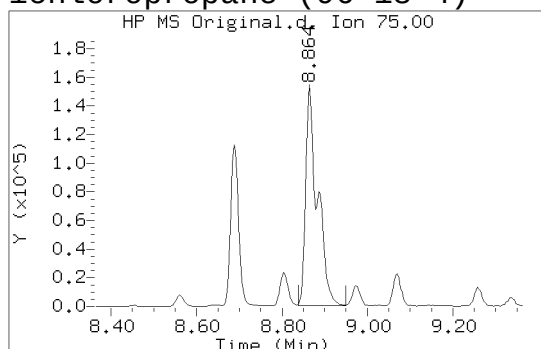


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 Inj Date : 16-DEC-2022 15:49
 InstruID : voa6.i
 LabSampID : ICV

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

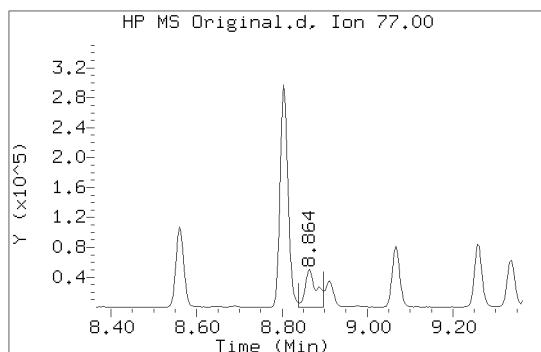
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154590
27-Dec-2022
16:04
linh



BEFORE

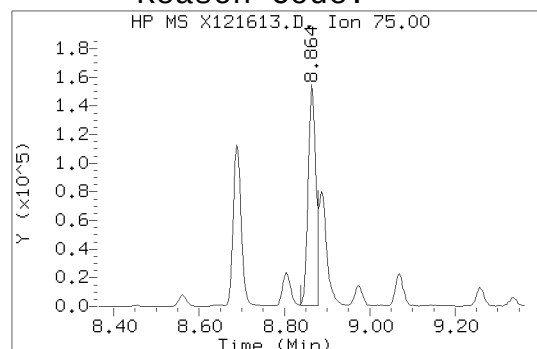
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AFTER

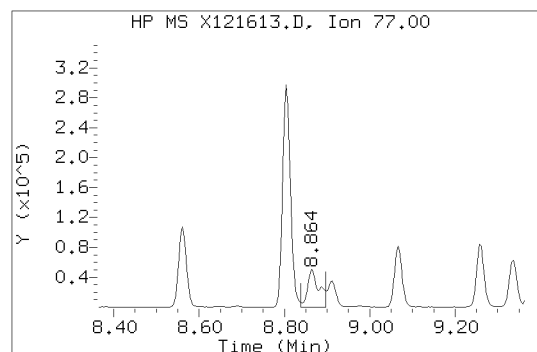
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Reason Code:



AFTER

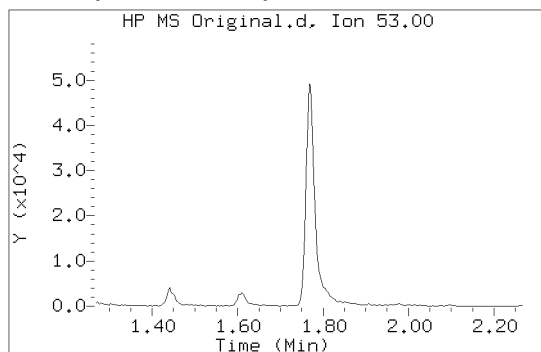
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27-Dec-2022
16:06
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pham



Chloroprene (126-99-8)

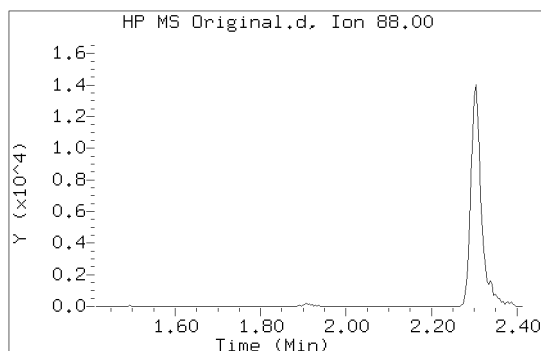
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27-Dec-2022
16:04
linh
pham



BEFORE

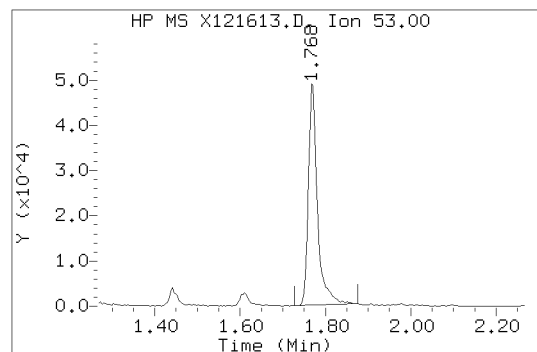
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HEIGHT
0
27-Dec-2022
16:04
linh
pham



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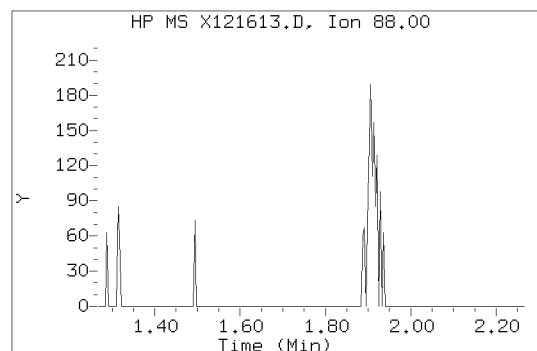
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27-Dec-2022
16:06
linh
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Reason Code:



AFTER

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27-Dec-2022
16:06
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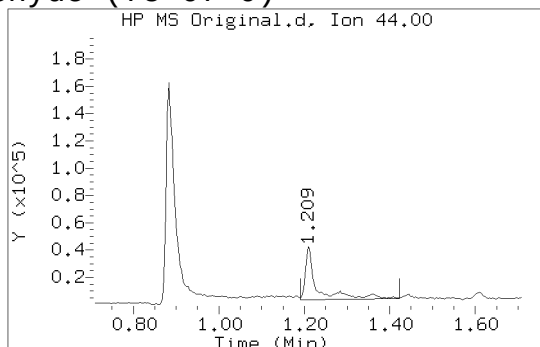


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Inj Date : 16-DEC-2022 15:49
InstruID : voa6.i
LabSampID : ICV

Acetaldehyde (75-07-0)

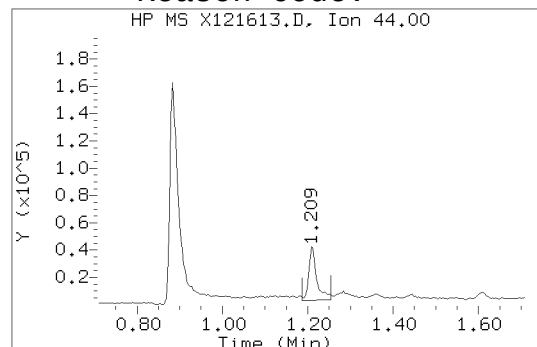
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MASS
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39303
27-Dec-2022
16:04
linh
pham



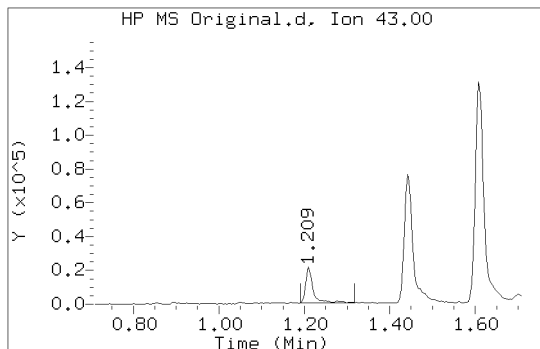
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16:06
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pham



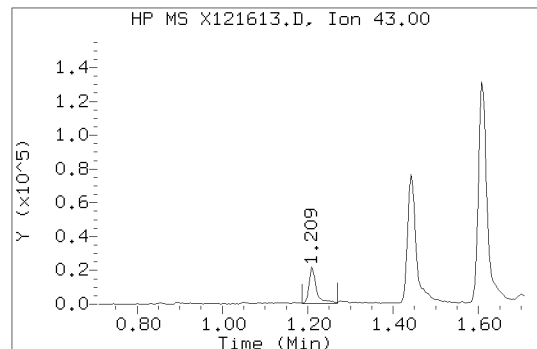
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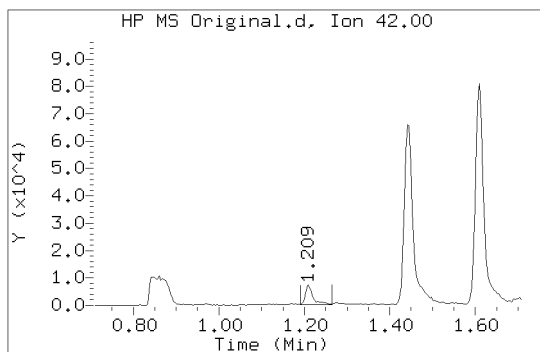
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MASS
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16:06
linh
pham



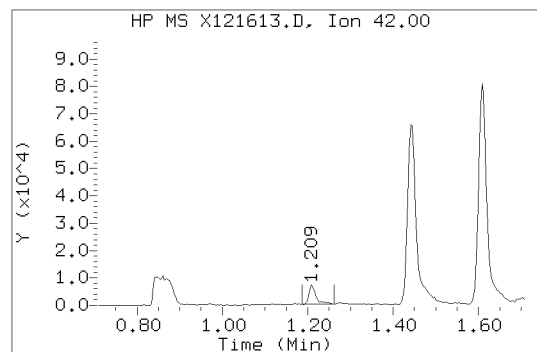
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27-Dec-2022
16:04
linh
pham



AFTER

MASS
42
AREA
8550
HEIGHT
7027
27-Dec-2022
16:06
linh
pham





Raw Data VOA6 425904

Volatiles by EPA 8260

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011601.D Page 1
 Report Date: 16-Jan-2023 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011601.D
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 16-JAN-2023 10:30
 Operator : PC Inst ID: voa6.i
 Smp Info : BFB;BFB;3;;BFB
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\bfb.m
 Meth Date : 01-Dec-2022 12:59 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	FINAL				
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
8.691	8.889	(0.000)	95	36000			0.00-	100.00	99.69
8.691	8.889	(0.000)	50	7262			15.00-	40.00	20.17
8.691	8.889	(0.000)	75	16856			30.00-	60.00	46.82
8.691	8.889	(0.000)	96	2373			5.00-	9.00	6.59
8.691	8.889	(0.000)	173	291			0.00-	2.00	0.81
8.691	8.889	(0.000)	174	36112			50.00-	0.00	100.31
8.691	8.889	(0.000)	175	2381			5.00-	9.00	6.59
8.691	8.889	(0.000)	176	36096			95.00-	101.00	99.96
8.691	8.889	(0.000)	177	2255			5.00-	9.00	6.25



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.17
75	30.00 - 60.00% of mass 95	46.82
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.81 (0.81)
174	Greater than 50.00% of mass 95	100.31
175	5.00 - 9.00% of mass 174	6.61 (6.59)
176	95.00 - 101.00% of mass 174	100.27 (99.96)
177	5.00 - 9.00% of mass 176	6.26 (6.25)

Data File: X011601.D
 Spectrum: Scan 2163 (8.70)
 Location of Maximum: 173.90
 Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	493	60.90	1749	85.90	140	126.80	55
37.00	1594	62.00	1730	86.90	1554	127.80	235
38.00	1771	63.00	1256	87.90	1838	128.90	55
39.00	1354	63.80	177	90.90	295	129.80	202
40.00	1291	65.00	97	91.90	1054	130.70	87
41.10	729	66.10	60	93.00	1580	134.80	127
42.00	1024	67.00	208	93.90	3986	136.80	61
43.00	1005	68.00	3773	95.00	36000	140.90	383
44.00	1023	69.00	4137	96.00	2373	141.90	90
44.90	616	70.20	559	97.20	85	142.80	443
46.10	50	71.00	295	98.00	697	154.90	163
46.90	321	71.80	138	102.80	54	156.90	162
47.90	195	72.10	165	103.80	246	157.60	65
49.00	1590	73.00	1484	104.80	81	168.20	114
50.00	7262	74.00	5844	105.90	174	169.10	98
51.00	2395	75.00	16856	106.70	155	171.70	58
51.80	144	76.00	1486	108.90	84	172.90	291
52.90	234	77.00	428	110.90	158	173.90	36112
54.00	78	78.00	198	112.90	72	174.90	2381
54.90	1513	78.90	1306	114.80	53	175.90	36096
56.00	1053	80.00	441	115.10	56	176.90	2255
57.00	1535	80.90	1447	115.80	174	185.90	217
58.10	269	81.90	244	116.90	230		
59.00	118	83.10	70	117.70	151		
60.10	358	84.90	380	119.00	161		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011601.D

Page 1

Date : 16-JAN-2023 10:30

Client ID: BFB

Instrument: voa6.i

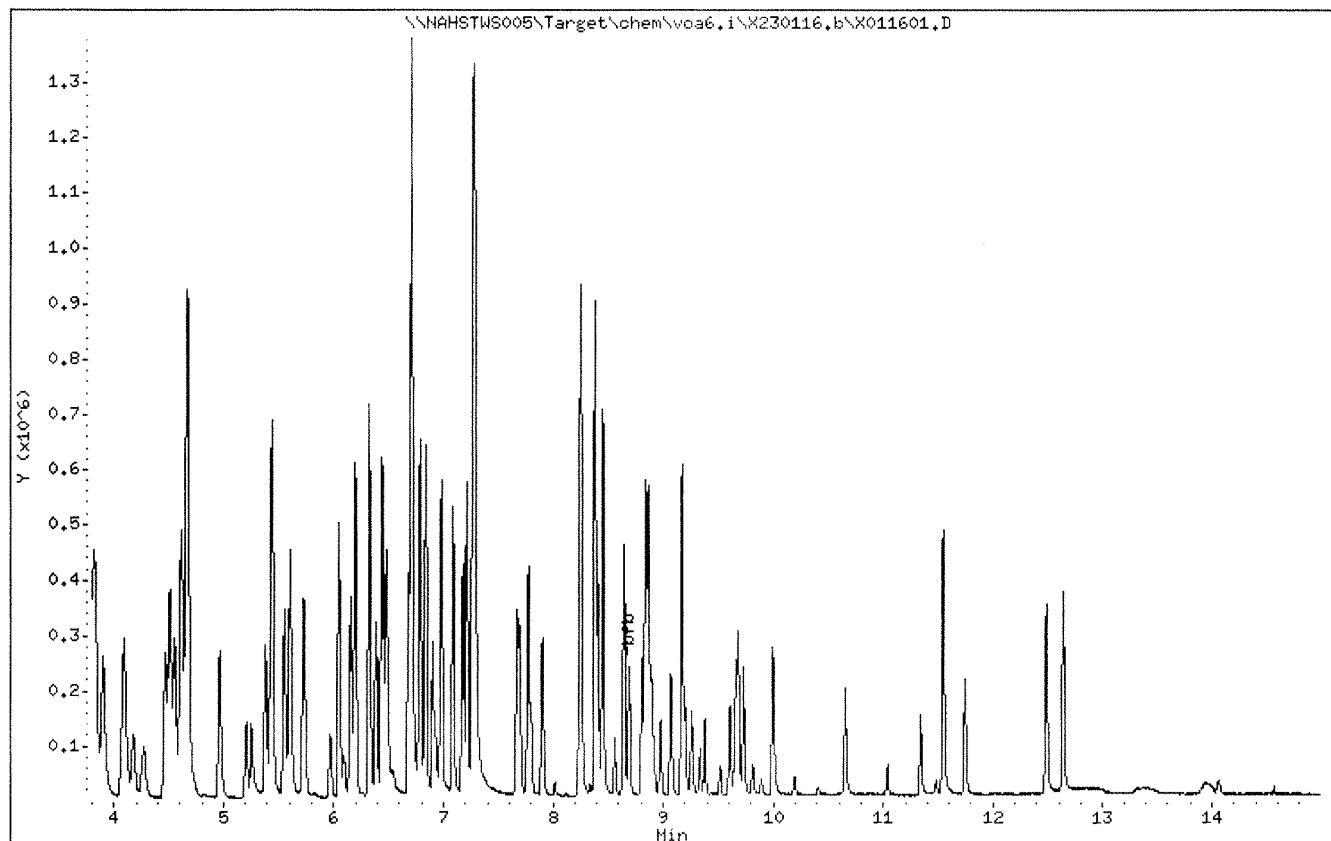
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011601.D

Page 2

Date : 16-JAN-2023 10:30

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;BFB

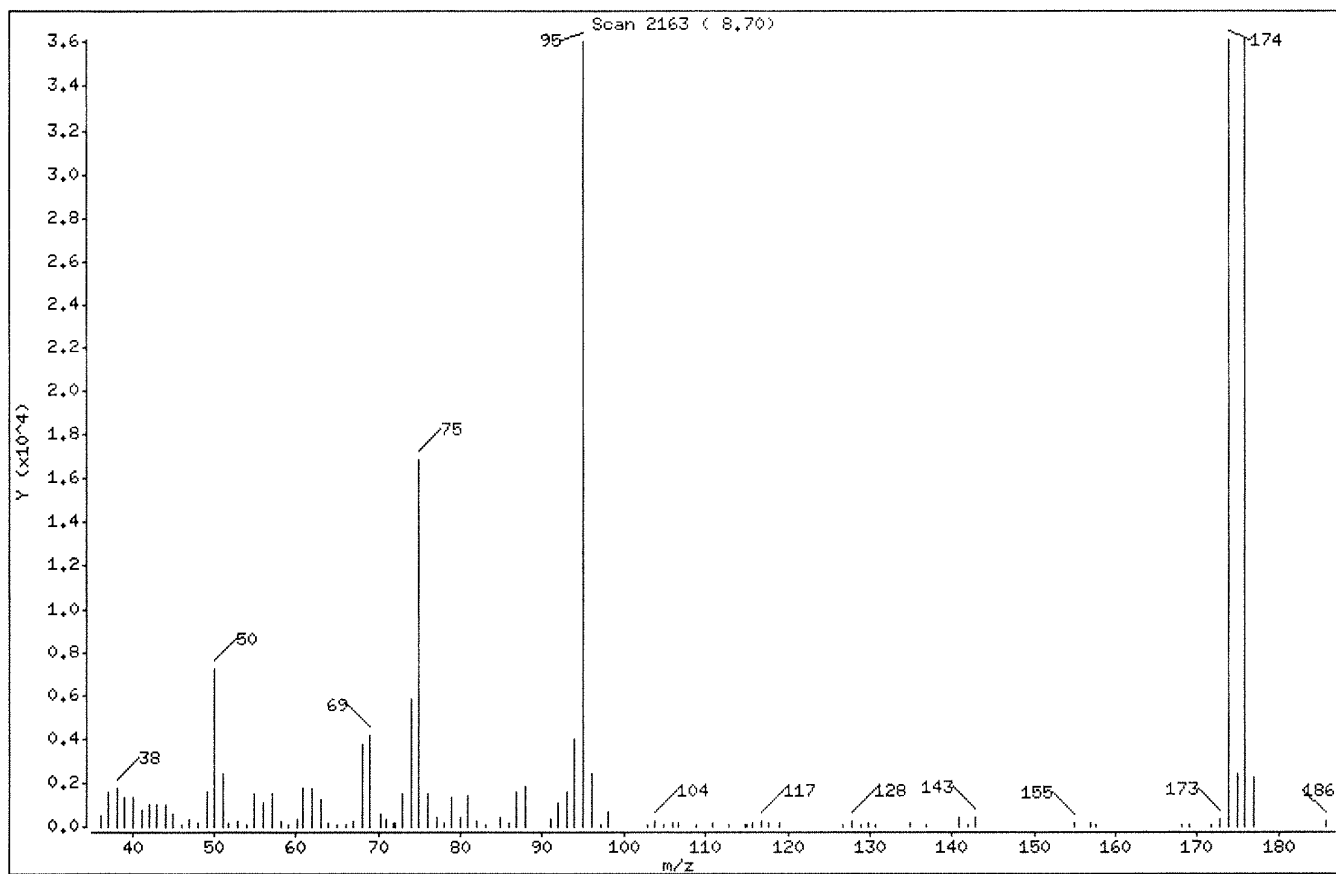
Volume Injected (uL): 2.0

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	20.17
75	30.00 - 60.00% of mass 95	46.82
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.81 (0.81)
174	Greater than 50.00% of mass 95	100.31
175	5.00 - 9.00% of mass 174	6.61 (6.59)
176	95.00 - 101.00% of mass 174	100.27 (99.96)
177	5.00 - 9.00% of mass 176	6.26 (6.25)



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011601.D

Page 3

Date : 16-JAN-2023 10:30

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: X011601.D

Spectrum: Scan 2163 (8.70)

Location of Maximum: 173.90

Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	493	60.90	1749	85.90	140	126.80	55
37.00	1594	62.00	1730	86.90	1554	127.80	235
38.00	1771	63.00	1256	87.90	1838	128.90	55
39.00	1354	63.80	177	90.90	295	129.80	202
40.00	1291	65.00	97	91.90	1054	130.70	87

41.10	729	66.10	60	93.00	1580	134.80	127
42.00	1024	67.00	208	93.90	3986	136.80	61
43.00	1005	68.00	3773	95.00	36000	140.90	383
44.00	1023	69.00	4137	96.00	2373	141.90	90
44.90	616	70.20	559	97.20	85	142.80	443

46.10	50	71.00	295	98.00	697	154.90	163
46.90	321	71.80	138	102.80	54	156.90	162
47.90	195	72.10	165	103.80	246	157.60	65
49.00	1590	73.00	1484	104.80	81	168.20	114
50.00	7262	74.00	5844	105.90	174	169.10	98

51.00	2395	75.00	16856	106.70	155	171.70	58
51.80	144	76.00	1486	108.90	84	172.90	291
52.90	234	77.00	428	110.90	158	173.90	36112
54.00	78	78.00	198	112.90	72	174.90	2381
54.90	1513	78.90	1306	114.80	53	175.90	36096

56.00	1053	80.00	441	115.10	56	176.90	2255
57.00	1535	80.90	1447	115.80	174	185.90	217
58.10	269	81.90	244	116.90	230		
59.00	118	83.10	70	117.70	151		
60.10	358	84.90	380	119.00	161		



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011601.D
Inj Date : 16-JAN-2023 10:30
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011602.D Page 1
 Report Date: 25-Jan-2023 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011602.D
 Lab Smp Id: CCV Client Smp ID: CCV
 Inj Date : 16-JAN-2023 10:50
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV;CCV;2;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.174	4.174	(1.000)		487390	50.0000	
135 1,4-Dioxane	88		5.595	5.595	(1.340)		47341	1000.00	1062.58
140 1,3-Butadiene	54		1.160	1.160	(0.278)		165315	50.0000	49.42
25 Methacrylonitrile	41		3.814	3.814	(0.914)		184958	50.0000	53.59
12 Isobutyl Alcohol	43		4.672	4.672	(1.119)		626732	1000.00	1143.24
13 Acetonitrile	39		2.195	2.195	(0.526)		239917	500.000	540.85
14 Allyl Chloride	41		2.195	2.195	(0.526)		440524	50.0000	52.14
4 Propionitrile	54		3.645	3.645	(0.873)		261362	500.000	525.54
72 trans-1,4-Dichloro-2-butene	53		8.886	8.886	(1.159)		86229	50.0000	57.31
194 Acetaldehyde	44		1.209	1.209	(0.290)		78726	200.000	261.39
23 Chloroprene	53		1.767	1.767	(0.423)		83357	50.0000	50.30(M)
130 Ethyl Acetate	43		3.649	3.649	(0.874)		220412	50.0000	57.95
40 Methyl Methacrylate	41		5.602	5.602	(1.342)		190319	50.0000	57.26
49 Ethyl Methacrylate	69		6.708	6.708	(1.351)		187637	50.0000	54.20
131 Methyl Acrylate	55		3.683	3.683	(0.882)		225286	50.0000	68.08
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		155278	50.0000	45.58
3 Chloromethane	50		1.074	1.074	(0.257)		214187	50.0000	48.63
5 Vinyl Chloride	62		1.141	1.141	(0.274)		218015	50.0000	51.20
6 Bromomethane	94		1.336	1.336	(0.320)		159861	50.0000	49.65
7 Chloroethane	64		1.400	1.400	(0.335)		141504	50.0000	47.74



8 Trichlorofluoromethane	101	1.554	1.554 (0.372)	314101	50.0000	52.71
9 Acrolein	56	1.441	1.441 (0.345)	33478	100.000	100.42

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011602.D Page 2
 Report Date: 25-Jan-2023 09:57

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
10 Acetone	43	1.966	1.966	(0.471)	160756	100.000	117.55
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	186729	50.0000	50.47
15 Iodomethane	142	2.022	2.022	(0.485)	487390	100.000	99.97
16 Acrylonitrile	53	2.524	2.524	(0.605)	139550	100.000	111.23
17 Methylene Chloride	84	2.300	2.300	(0.551)	229156	50.0000	45.16
18 Methyl tert-butyl ether	73	2.528	2.528	(0.606)	609570	50.0000	50.34
19 Carbon Disulfide	76	2.063	2.063	(0.494)	985305	100.000	101.80
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	204959	50.0000	49.50
21 Vinyl Acetate	43	2.993	2.993	(0.717)	1213700	100.000	114.19
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	360614	50.0000	49.63
24 2-Butanone	43	3.570	3.570	(0.855)	163316	100.000	112.20
26 2,2-Dichloropropane	77	3.507	3.507	(0.840)	332886	50.0000	53.96
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	237602	50.0000	47.15
28 Chloroform	83	3.900	3.900	(0.934)	397367	50.0000	48.79
29 Bromochloromethane	128	3.792	3.792	(0.908)	124901	50.0000	45.27
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.981)	225246	50.0000	48.12
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	335116	50.0000	51.86
32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	287646	50.0000	55.11
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	316342	50.0000	52.52
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	283053	50.0000	50.78
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	252210	50.0000	51.05
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	735132	50.0000	
37 Benzene	78	4.508	4.508	(0.908)	872883	50.0000	49.72
38 Trichloroethene	130	5.205	5.205	(1.048)	246174	50.0000	49.44
39 Bromodichloromethane	83	5.722	5.722	(1.153)	322696	50.0000	48.98
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	226069	100.000	120.61
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	230607	50.0000	49.38
44 Dibromomethane	93	5.550	5.550	(1.118)	151580	50.0000	47.75
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	420108	100.000	112.78
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	408475	50.0000	52.79
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	696911	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	850952	50.0000	49.41
50 Toluene	91	6.446	6.446	(0.841)	968220	50.0000	50.26
51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	352863	50.0000	54.95
52 2-Hexanone	43	7.083	7.083	(0.924)	299215	100.000	118.06
53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	185987	50.0000	48.12
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	382415	50.0000	50.27
55 Dibromochloromethane	129	7.177	7.177	(0.936)	276833	50.0000	49.63
56 Tetrachloroethene	164	6.925	6.925	(0.903)	206765	50.0000	51.87
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	245111	50.0000	50.72
58 1-Chlorohexane	55	7.694	7.694	(1.550)	203689	50.0000	57.33
59 Chlorobenzene	112	7.694	7.694	(1.003)	663757	50.0000	48.58
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	255137	50.0000	50.17
61 Ethylbenzene	106	7.799	7.799	(1.017)	336937	50.0000	52.35
62 m,p-Xylenes	106	7.904	7.904	(1.031)	860916	100.000	103.76
63 o-Xylene	106	8.241	8.241	(1.075)	415748	50.0000	50.77
64 Styrene	104	8.260	8.260	(1.077)	732645	50.0000	53.37
66 Bromoform	173	8.410	8.410	(1.097)	200474	50.0000	51.88
67 Isopropylbenzene	105	8.560	8.560	(1.116)	1039363	50.0000	55.55
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	314223	50.0000	48.98
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	329689	50.0000	51.21
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	402481	50.0000	



71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	237631	50.0000	53.06(M)
73 n-Propylbenzene	91	8.912	8.912 (0.922)	1251740	50.0000	56.14

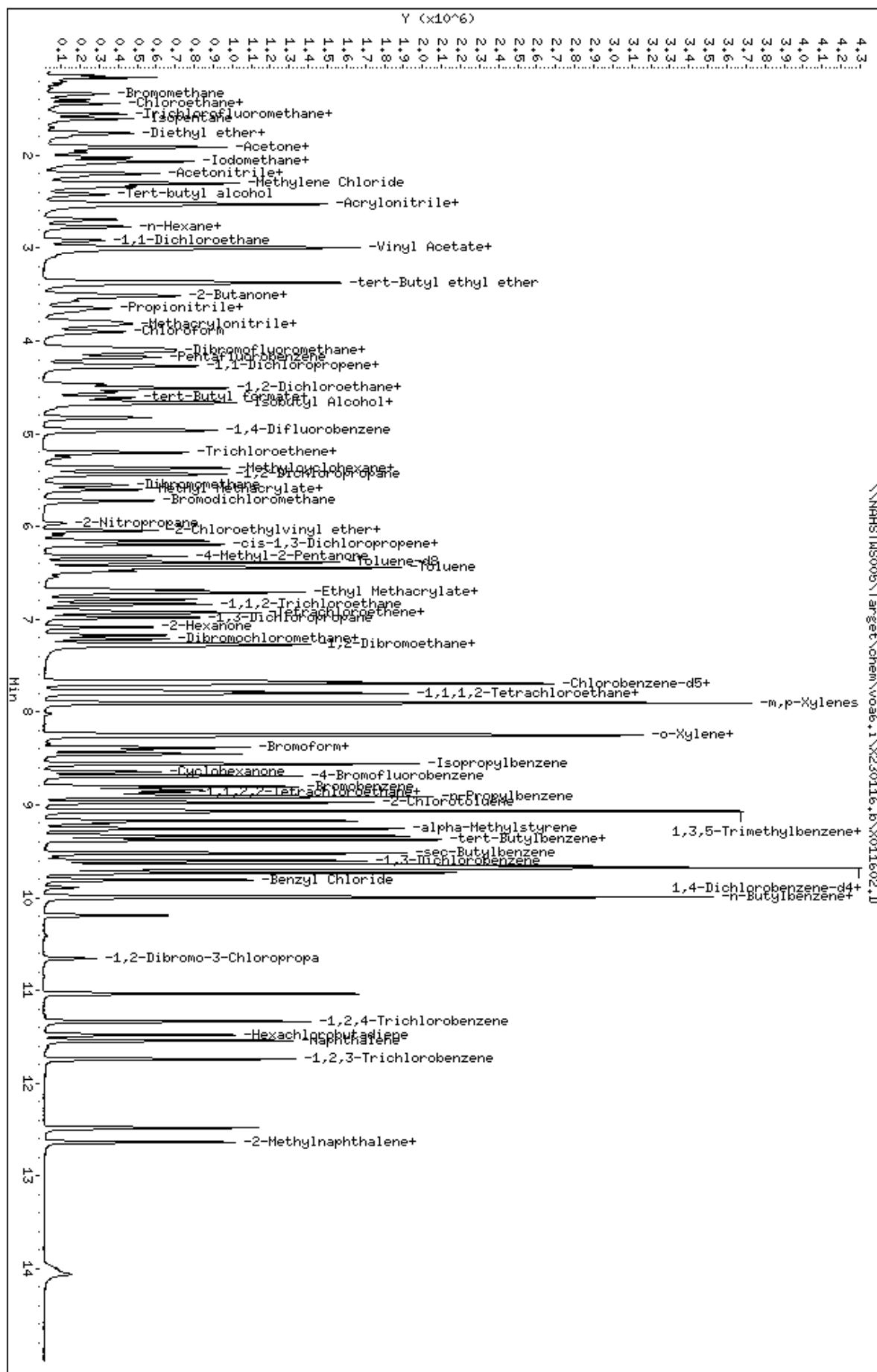
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011602.D Page 3
 Report Date: 25-Jan-2023 09:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
74 Bromobenzene	156	8.803	8.803	(0.911)	317871	50.0000	48.13
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	910334	50.0000	55.27
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	763497	50.0000	52.18
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	900962	50.0000	54.02
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	745665	50.0000	55.31
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	940366	50.0000	54.26
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1054510	50.0000	58.78
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	945803	50.0000	58.84
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	571374	50.0000	52.13
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	614872	50.0000	51.41
87 n-Butylbenzene	91	9.992	9.992	(1.034)	850430	50.0000	54.72
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	573321	50.0000	50.79
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	53073	50.0000	51.74
90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	385742	50.0000	54.15
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	166364	50.0000	52.66
92 Naphthalene	128	11.540	11.540	(1.194)	878212	50.0000	54.18
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	355090	50.0000	52.04
M 94 1,2-Dichloroethylene (total)	96				442561	100.000	(a)
141 Cyclohexane	56	4.121	4.121	(0.987)	281960	50.0000	57.20
138 Freon TF	101	1.913	1.913	(0.458)	194374	50.0000	54.32
147 Methylcyclohexane	55	5.377	5.377	(1.083)	519850	50.0000	57.76
146 Methyl Acetate	43	2.225	2.225	(0.533)	123374	50.0000	56.25
148 Tert-Butyl alcohol	59	2.420	2.420	(0.580)	390305	1000.00	1156.51
149 Isopropyl Alcohol	45	2.086	2.086	(0.500)	215790	1000.00	1224.33

QC Flag Legend

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





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 Column phase: DB624

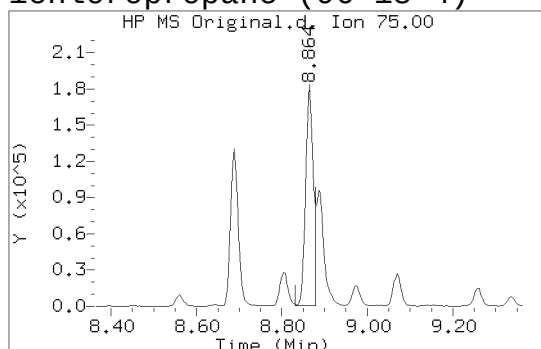
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 Operator: PC
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Inj Date : 16-JAN-2023 10:50
InstruID : voa6.i
LabSampID : CCV

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

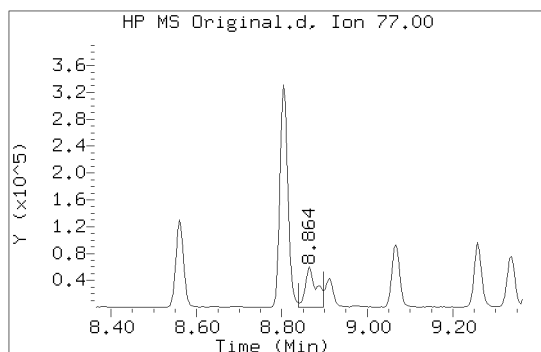
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HEIGHT
183168
25-Jan-2023
09:57
linh



BEFORE

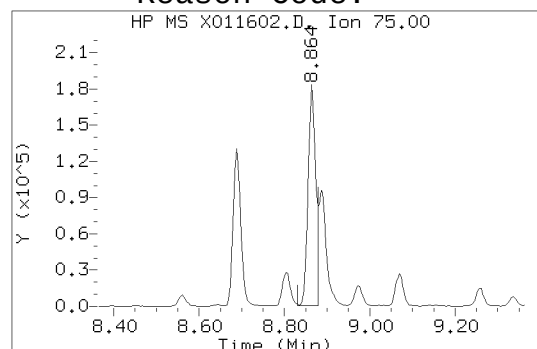
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AFTER

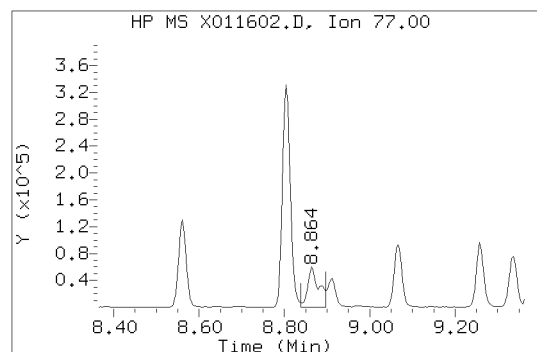
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Reason Code:



AFTER

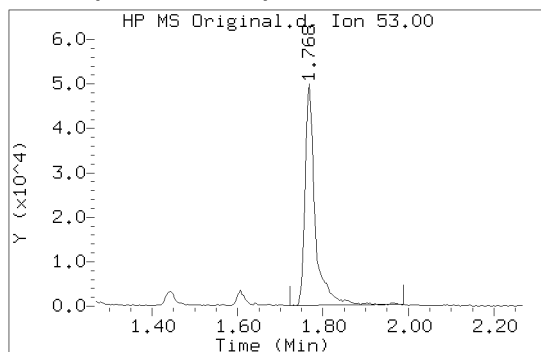
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25-Jan-2023
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pham



Chloroprene (126-99-8)

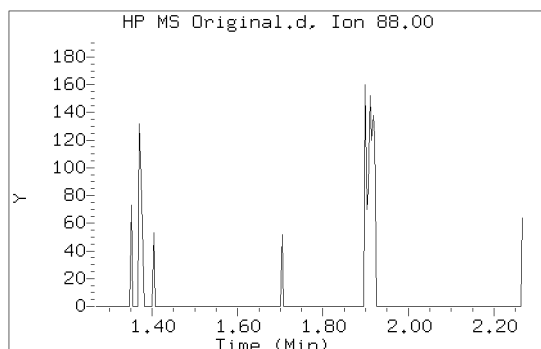
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25-Jan-2023
09:57
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BEFORE

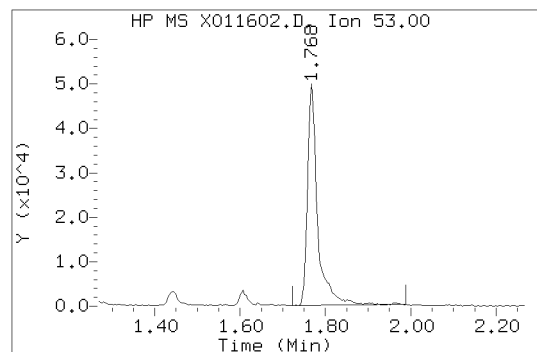
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25-Jan-2023
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AFTER

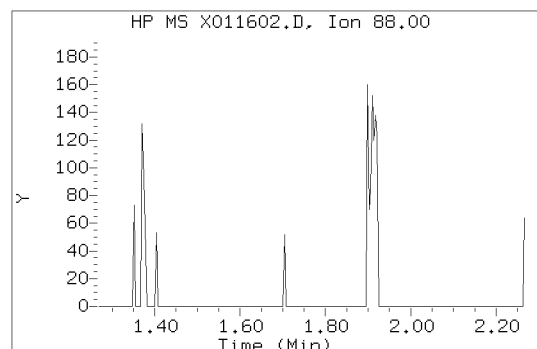
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25-Jan-2023
09:57
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Reason Code:



AFTER

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25-Jan-2023
09:57
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011604.D Page 1
 Report Date: 16-Jan-2023 21:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011604.D
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 Inj Date : 16-JAN-2023 11:33
 Operator : PC Inst ID: voa6.i
 Smp Info : CCB;CCB;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\nahstws005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 16-Jan-2023 21:17 pcabasca Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.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: $\text{Amt} * \text{DF} * (\text{Uf}/\text{Vo}) * 1 * \text{CpndVariable}$

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	4.178	4.174	(1.000)	567791	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	250448	45.9241	45.92
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	274729	47.7546	47.75
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	803617	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	722076	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	931885	52.2269	52.22
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	332948	49.9214	49.92
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	387650	50.0000	



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011605.D Page 1
 Report Date: 25-Jan-2023 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011605.D
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 Inj Date : 16-JAN-2023 11:53
 Operator : PC Inst ID: voa6.i
 Smp Info : VLCSW-230116;VLCSW-230116;3;;LCS
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.174	(1.000)		491041	50.0000	
135 1,4-Dioxane	88		5.598	5.595	(1.340)		17599	392.080	392.07(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		59850	17.7591	17.75
25 Methacrylonitrile	41		3.818	3.814	(0.914)		76719	22.0648	22.06
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		246298	445.939	445.93
13 Acetonitrile	39		2.195	2.195	(0.525)		95883	214.547	214.54
14 Allyl Chloride	41		2.195	2.195	(0.525)		177745	20.8825	20.88
4 Propionitrile	54		3.649	3.645	(0.873)		106363	212.285	212.28(a)
72 trans-1,4-Dichloro-2-butene	53		8.890	8.886	(1.159)		31390	21.3336	21.33
23 Chloroprene	53		1.771	1.767	(0.424)		28075	16.8154	16.81(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		84877	22.1514	22.15
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		70388	21.0227	21.02
49 Ethyl Methacrylate	69		6.708	6.708	(1.352)		78679	23.1608	23.16
131 Methyl Acrylate	55		3.690	3.683	(0.883)		78935	23.6777	23.67
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		53037	15.7144	15.71
3 Chloromethane	50		1.074	1.074	(0.257)		81431	19.7299	19.72
5 Vinyl Chloride	62		1.141	1.141	(0.273)		78538	18.3093	18.30
6 Bromomethane	94		1.336	1.336	(0.320)		61986	20.1956	20.19
7 Chloroethane	64		1.400	1.400	(0.335)		53968	18.0759	18.07
8 Trichlorofluoromethane	101		1.557	1.554	(0.373)		111728	18.6129	18.61



9 Acrolein	56	1.441	1.441 (0.345)	12995	40.4258	40.42
10 Acetone	43	1.970	1.966 (0.472)	65022	47.1739	47.17

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011605.D Page 2
 Report Date: 25-Jan-2023 09:57

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	67920	18.2248	18.22
15 Iodomethane	142	2.022	2.022	(0.484)	165738	36.8403	36.84
16 Acrylonitrile	53	2.532	2.524	(0.606)	57404	45.4154	45.41
17 Methylene Chloride	84	2.300	2.300	(0.550)	93134	18.2189	18.21
18 Methyl tert-butyl ether	73	2.532	2.528	(0.606)	244086	20.0095	20.00
19 Carbon Disulfide	76	2.067	2.063	(0.495)	361496	37.0742	37.07
20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	76517	18.3453	18.34
21 Vinyl Acetate	43	2.997	2.993	(0.717)	468828	43.7818	43.78
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	138303	18.8937	18.89
24 2-Butanone	43	3.574	3.570	(0.856)	58879	42.0940	42.09
26 2,2-Dichloropropane	77	3.503	3.507	(0.839)	119713	19.2615	19.26
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	90735	17.8754	17.87
28 Chloroform	83	3.904	3.900	(0.935)	152130	18.5424	18.54
29 Bromochloromethane	128	3.791	3.792	(0.908)	48855	17.5788	17.57
\$ 30 Dibromofluoromethane	113	4.091	4.095	(0.979)	225402	47.7984	47.79
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	121651	18.6883	18.68
32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	101026	19.7258	19.72
33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	121101	20.4888	20.48
34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	100239	18.3284	18.32
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	261330	52.4985	52.49
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	721391	50.0000	
37 Benzene	78	4.507	4.508	(0.909)	327702	19.0230	19.02
38 Trichloroethene	130	5.205	5.205	(1.049)	92389	18.9088	18.90
39 Bromodichloromethane	83	5.726	5.722	(1.154)	120316	18.6103	18.61
41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.219)	85296	46.3749	46.37
42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	88158	19.2384	19.23
44 Dibromomethane	93	5.550	5.550	(1.119)	59703	19.1684	19.16
45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	160071	43.9381	43.93
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	150395	19.8079	19.80
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	681591	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	831629	49.3765	49.37
50 Toluene	91	6.446	6.446	(0.841)	355055	18.8464	18.84
51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	128005	20.3150	20.31
52 2-Hexanone	43	7.087	7.083	(0.924)	113886	45.9468	45.94
53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	71789	18.9943	18.99
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	144556	19.4315	19.43
55 Dibromochloromethane	129	7.173	7.177	(0.935)	102160	18.7282	18.72
56 Tetrachloroethene	164	6.925	6.925	(0.903)	73438	18.8402	18.84
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	92737	19.6248	19.62
58 1-Chlorohexane	55	7.694	7.694	(1.551)	72790	20.8792	20.87
59 Chlorobenzene	112	7.694	7.694	(1.003)	247959	18.5561	18.55
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	94553	19.0137	19.01
61 Ethylbenzene	106	7.799	7.799	(1.017)	123753	19.6605	19.66
62 m,p-Xylenes	106	7.904	7.904	(1.031)	314208	38.7225	38.72
63 o-Xylene	106	8.241	8.241	(1.075)	152967	19.0999	19.09
64 Styrene	104	8.260	8.260	(1.077)	266228	19.8327	19.83
66 Bromoform	173	8.410	8.410	(1.097)	73157	19.3585	19.35
67 Isopropylbenzene	105	8.560	8.560	(1.116)	374236	20.4532	20.45
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	121193	20.0632	20.06
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	311126	49.4209	49.42
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	378990	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	87598	20.7723	20.77(M)



73 n-Propylbenzene	91	8.912	8.912 (0.922)	447665	21.3248	21.32
74 Bromobenzene	156	8.803	8.803 (0.911)	115583	18.5887	18.58

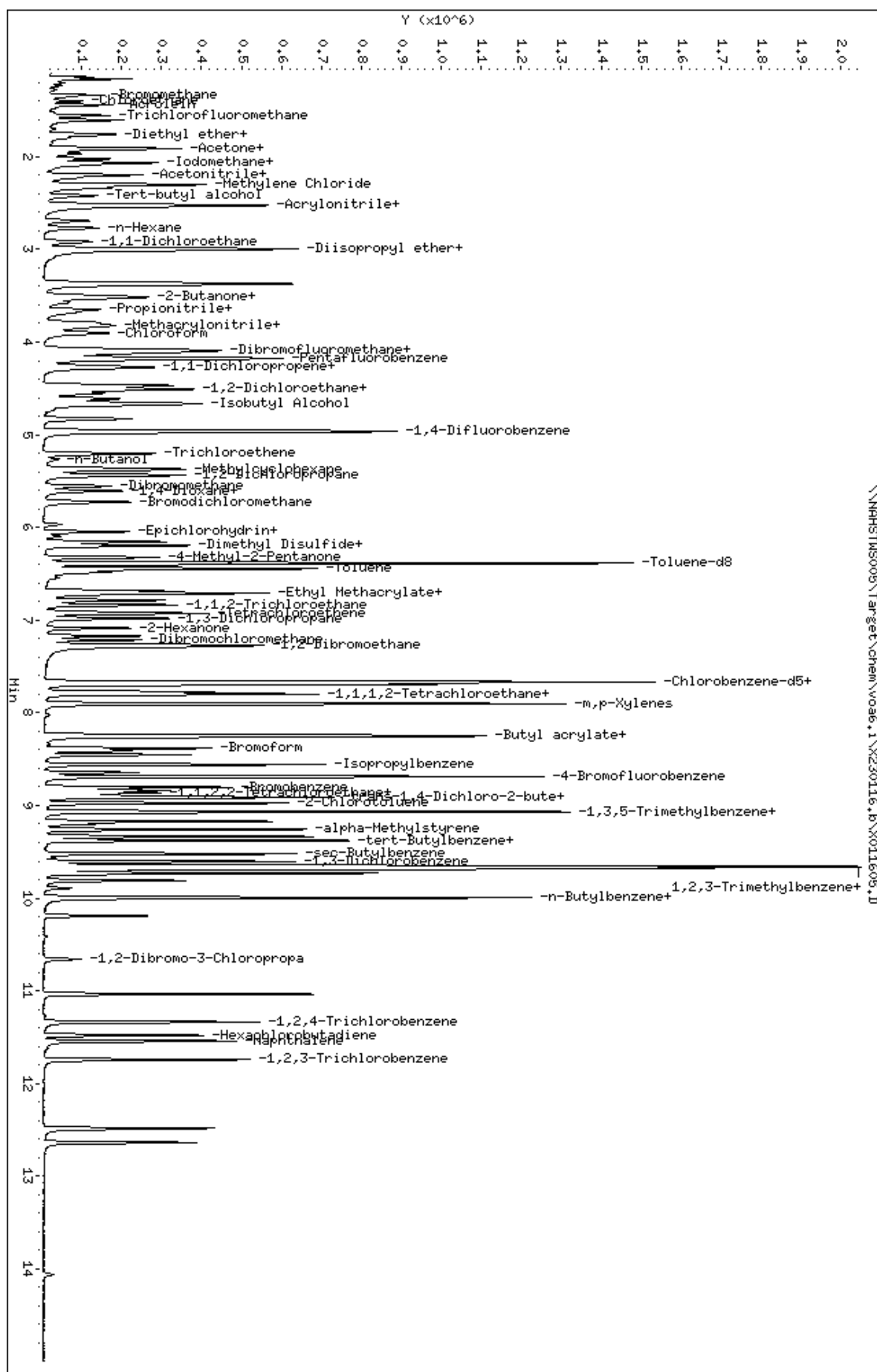
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 Report Date: 25-Jan-2023 09:57

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	328768	21.1999	21.19
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	280079	20.3315	20.33
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	328072	20.8909	20.89
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	263807	20.7816	20.78
79 1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	336096	20.5972	20.59
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	365212	21.6227	21.62
82 p-Isopropyltoluene	119	9.647	9.651	(0.998)	334745	22.1169	22.11
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	210557	20.4022	20.40
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	224478	19.9327	19.93
87 n-Butylbenzene	91	9.992	9.992	(1.034)	300702	21.6585	21.65
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	209777	19.7367	19.73
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	19881	20.6406	20.64
90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	157116	23.4232	23.42
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	65190	22.0468	22.04
92 Naphthalene	128	11.544	11.540	(1.195)	349681	22.9124	22.91
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	143977	22.4115	22.41
M 94 1,2-Dichloroethylene (total)	96				167252	36.2206	36.22
M 95 Xylenes (total)	106				467175	57.8224	57.82
141 Cyclohexane	56	4.121	4.121	(0.987)	94976	19.9656	19.96
138 Freon TF	101	1.910	1.913	(0.457)	62921	17.4560	17.45
147 Methylcyclohexane	55	5.381	5.377	(1.085)	207277	23.4731	23.47
146 Methyl Acetate	43	2.232	2.225	(0.534)	48771	22.0726	22.07
148 Tert-Butyl alcohol	59	2.423	2.420	(0.580)	158060	464.865	464.86
149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	82960	467.193	467.19

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa6.1\X230116.b\X011605.D
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 Column phase: DB624

Instrument: voa6.1
 Operator: PC
 Column diameter: 0.18

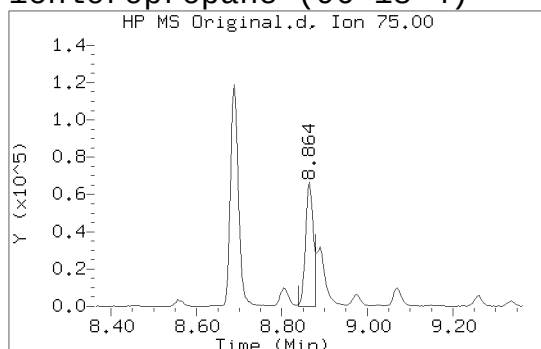


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Inj Date : 16-JAN-2023 11:53
InstruID : voa6.i
LabSampID : VLCSW-230116

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

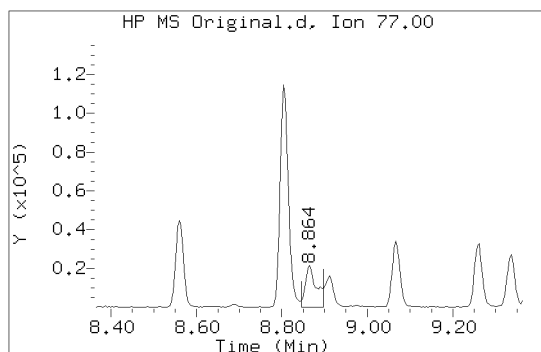
BEFORE

MASS
75
AREA
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25-Jan-2023
09:57
linh



BEFORE

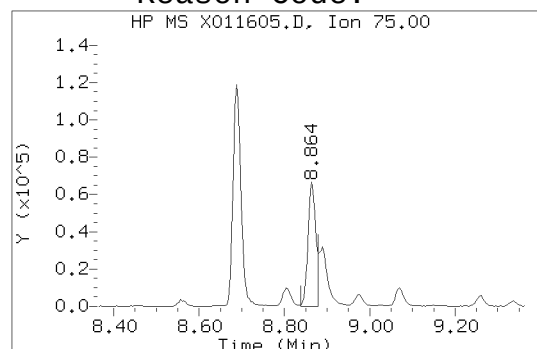
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25-Jan-2023
09:57
linh
pham



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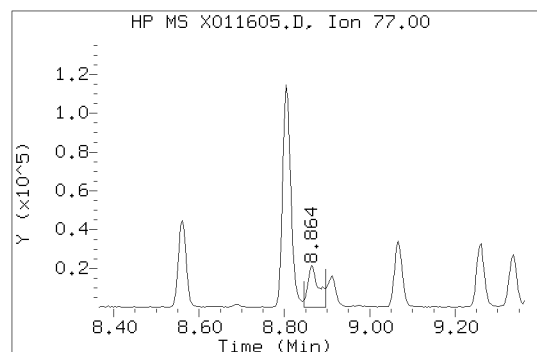
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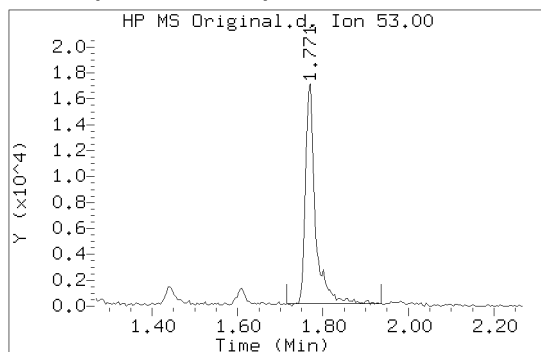
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Chloroprene (126-99-8)

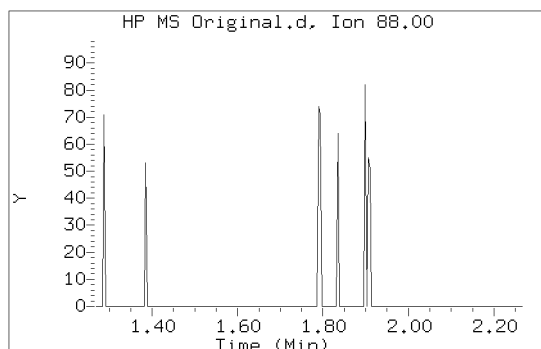
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BEFORE

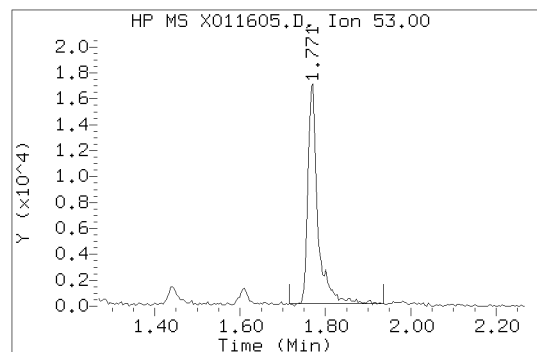
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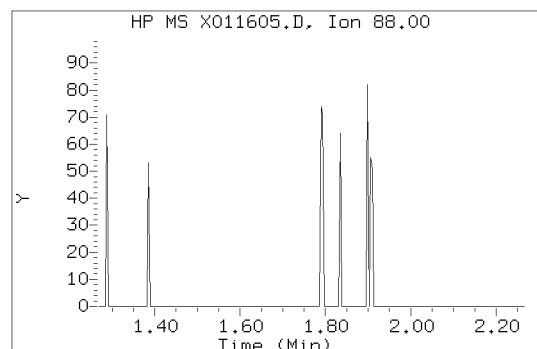
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25-Jan-2023
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Reason Code:



AFTER

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25-Jan-2023
09:57
linh
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011607.D Page 1
 Report Date: 25-Jan-2023 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011607.D
 Lab Smp Id: VBLKW-230116 Client Smp ID: VBLKW-230116
 Inj Date : 16-JAN-2023 12:36
 Operator : PC Inst ID: voa6.i
 Smp Info : VBLKW-230116;VBLKW-230116;3;;BLANK
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.174	(1.000)	549601	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	242880	46.0107	46.01
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	265749	47.7227	47.72
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	784303	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	701018	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	901197	52.0242	52.02
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	329377	50.8682	50.86
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	381411	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.1\X230116.b\X011607.D

Date : 16-JAN-2023 12:36

Client ID: VBLKM-230116

Sample Info: VBLKM-230116;VBLKM-230116;3;BLANK

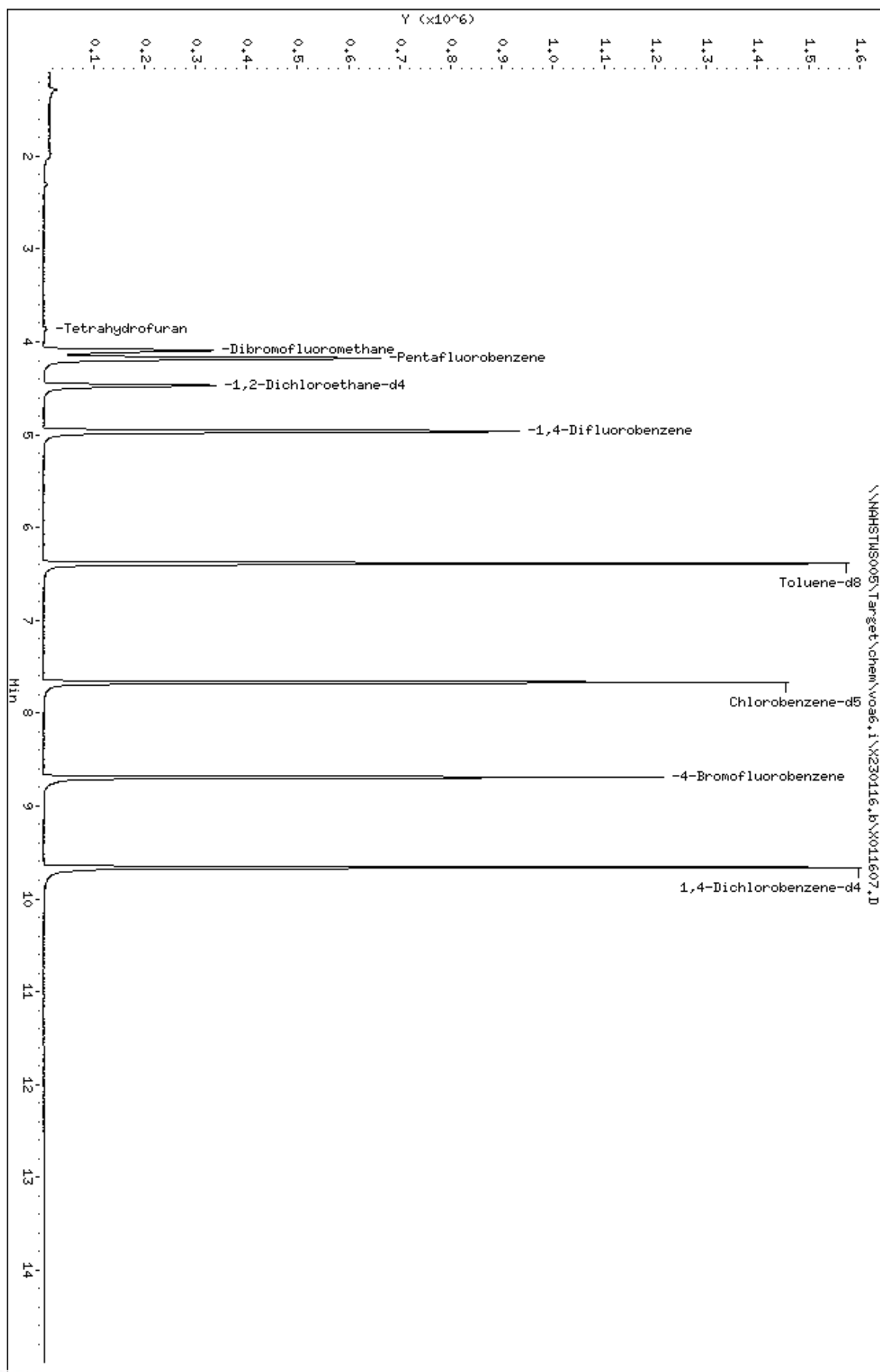
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.1

Operator: PC

Column diameter: 0.18



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Inj Date : 16-JAN-2023 12:36
InstruID : voa6.i
LabSampID : VBLKW-230116

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011616.D Page 1
Report Date: 25-Jan-2023 09:58

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011616.D
Lab Smp Id: HS23010472-04MS Client Smp ID: HS23010472-04MS
Inj Date : 16-JAN-2023 15:45
Operator : PC Inst ID: voa6.i
Smp Info : HS23010472-04MS;HS23010472-04MS;3;;MS
Misc Info : V6;WATER;0;1000;
Comment :
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Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 16 QC Sample: MS
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.174	(1.000)		539813	50.0000	
135 1,4-Dioxane	88		5.602	5.595	(1.341)		17252	349.623	349623.26(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		77212	20.8409	20840.87
25 Methacrylonitrile	41		3.825	3.814	(0.916)		70667	18.4879	18487.93
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		248118	408.646	408646.23
13 Acetonitrile	39		2.194	2.195	(0.525)		104474	212.649	212649.13
14 Allyl Chloride	41		2.194	2.195	(0.525)		183695	19.6316	19631.63
4 Propionitrile	54		3.645	3.645	(0.873)		102847	186.722	186721.86(a)
72 trans-1,4-Dichloro-2-butene	53		8.890	8.886	(1.159)		32560	21.9778	21977.78
194 Acetaldehyde	44		1.209	1.209	(0.289)		86037	257.618	257617.92
23 Chloroprene	53		1.767	1.767	(0.423)		39873	21.7240	21724.01(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		83406	19.8008	19800.78
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		70075	19.0383	19038.29
49 Ethyl Methacrylate	69		6.708	6.708	(1.352)		72268	20.1492	20149.19
131 Methyl Acrylate	55		3.683	3.683	(0.882)		76923	20.9894	20989.38
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		72738	19.5073	19507.25
3 Chloromethane	50		1.074	1.074	(0.257)		91362	20.0906	20090.55
5 Vinyl Chloride	62		1.141	1.141	(0.273)		99432	21.0859	21085.90
6 Bromomethane	94		1.336	1.336	(0.320)		72824	21.4618	21461.80
7 Chloroethane	64		1.400	1.400	(0.335)		61769	18.8195	18819.48



8 Trichlorofluoromethane	101	1.557	1.554 (0.373)	154531	23.4175	23417.54
9 Acrolein	56	1.441	1.441 (0.345)	14308	40.4845	40484.48

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011616.D Page 2
 Report Date: 25-Jan-2023 09:58

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
10 Acetone	43	1.970	1.966 (0.472)		47637	31.4270	31426.95	
11 1,1-Dichloroethene	96	1.910	1.910 (0.457)		86869	21.2034	21203.38	
15 Iodomethane	142	2.022	2.022 (0.484)		166348	33.9603	33960.34	
16 Acrylonitrile	53	2.532	2.524 (0.606)		57872	41.6489	41648.94	
17 Methylene Chloride	84	2.303	2.300 (0.551)		99933	17.7827	17782.72	
18 Methyl tert-butyl ether	73	2.532	2.528 (0.606)		251130	18.7269	18726.90	
19 Carbon Disulfide	76	2.067	2.063 (0.495)		445942	41.6026	41602.62	
20 trans-1,2-Dichloroethene	96	2.524	2.524 (0.604)		87836	19.1564	19156.35	
21 Vinyl Acetate	43	2.993	2.993 (0.716)		481450	40.8983	40898.31	
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)		153788	19.1109	19110.90	
24 2-Butanone	43	3.574	3.570 (0.856)		54135	35.7007	35700.72	
26 2,2-Dichloropropane	77	3.503	3.507 (0.838)		143306	20.9743	20974.26	
27 cis-1,2-Dichloroethene	96	3.521	3.522 (0.843)		101331	18.1592	18159.23	
28 Chloroform	83	3.904	3.900 (0.935)		167853	18.6103	18610.34	
29 Bromochloromethane	128	3.791	3.792 (0.908)		52105	17.0543	17054.25	
\$ 30 Dibromofluoromethane	113	4.091	4.095 (0.979)		233826	45.0954	45.09	
31 1,1,1-Trichloroethane	97	4.076	4.080 (0.976)		150532	21.0357	21035.67	
32 1,1-Dichloropropene	75	4.279	4.275 (0.862)		132390	24.4835	24483.53	
33 1,2-Dichloroethane	62	4.556	4.552 (0.918)		127817	20.4821	20482.07	
34 Carbon Tetrachloride	117	4.260	4.260 (0.859)		132550	22.9554	22955.41	
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466 (1.069)		260863	47.6949	47.69	
* 36 1,4-Difluorobenzene	114	4.961	4.965 (1.000)		761647	50.0000		
37 Benzene	78	4.511	4.508 (0.909)		375311	20.6351	20635.14	
38 Trichloroethene	130	5.205	5.205 (1.049)		211631	41.0242	41024.18	
39 Bromodichloromethane	83	5.726	5.722 (1.154)		129881	19.0279	19027.93	
41 2-Chloroethylvinyl ether	63	6.048	6.044 (1.219)		86506	44.5469	44546.88	
42 1,2-Dichloropropane	63	5.433	5.433 (1.095)		91690	18.9517	18951.65	
44 Dibromomethane	93	5.553	5.550 (1.119)		61688	18.7589	18758.93	
45 4-Methyl-2-Pentanone	43	6.322	6.322 (0.824)		158343	43.1672	43167.16	
46 cis-1,3-Dichloropropene	75	6.157	6.153 (1.241)		158069	19.7183	19718.30	
* 47 Chlorobenzene-d5	117	7.667	7.668 (1.000)		686274	50.0000		
\$ 48 Toluene-d8	98	6.385	6.386 (0.833)		891328	52.5599	52.55	
50 Toluene	91	6.445	6.446 (0.841)		414176	21.8346	21834.57	
51 trans-1,3-Dichloropropene	75	6.682	6.678 (1.347)		131978	19.8385	19838.47	
52 2-Hexanone	43	7.086	7.083 (0.924)		106409	42.6373	42637.29	
53 1,1,2-Trichloroethane	83	6.839	6.835 (0.892)		75607	19.8680	19867.96	
54 1,3-Dichloropropane	76	6.981	6.982 (0.911)		151395	20.2119	20211.89	
55 Dibromochloromethane	129	7.173	7.177 (0.935)		108724	19.7955	19795.46	
56 Tetrachloroethene	164	6.925	6.925 (0.903)		95606	24.3599	24359.94	
57 1,2-Dibromoethane	107	7.263	7.259 (0.947)		97730	20.5403	20540.28	
58 1-Chlorohexane	55	7.697	7.694 (1.552)		99134	26.9328	26932.78	
59 Chlorobenzene	112	7.694	7.694 (1.003)		275052	20.4431	20443.14	
60 1,1,1,2-Tetrachloroethane	131	7.772	7.773 (1.014)		100747	20.1210	20121.00	
61 Ethylbenzene	106	7.799	7.799 (1.017)		143695	22.6728	22672.83	
62 m,p-Xylenes	106	7.904	7.904 (1.031)		367702	45.0058	45005.78	
63 o-Xylene	106	8.241	8.241 (1.075)		172110	21.3435	21343.47	
64 Styrene	104	8.260	8.260 (1.077)		291933	21.5992	21599.15	
66 Bromoform	173	8.410	8.410 (1.097)		74500	19.5794	19579.40	
67 Isopropylbenzene	105	8.560	8.560 (1.116)		456453	24.7765	24776.45	
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)		121566	20.3152	20315.21	
\$ 69 4-Bromofluorobenzene	95	8.687	8.687 (1.133)		317638	50.1102	50.11	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)		375441	50.0000		



71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	94532	22.6285	22628.45(M)
73 n-Propylbenzene	91	8.912	8.912 (0.922)	537821	25.8616	25861.60

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011616.D Page 3
 Report Date: 25-Jan-2023 09:58

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
74 Bromobenzene	156	8.803	8.803	(0.911)	129467	21.0185	21018.48
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	383139	24.9395	24939.48
76 2-Chlorotoluene	91	8.976	8.972	(0.929)	315354	23.1086	23108.57
77 4-Chlorotoluene	91	9.069	9.070	(0.939)	363531	23.3677	23367.69
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	328601	26.1304	26130.44
79 1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	379647	23.4861	23486.13
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	466288	27.8680	27867.98
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	408641	27.2545	27254.53
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	230338	22.5299	22529.90
84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	243007	21.7820	21781.97
87 n-Butylbenzene	91	9.995	9.992	(1.035)	364735	26.1205	26120.45
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	225118	21.3802	21380.24
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	19845	20.7972	20797.24
90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	159268	23.9685	23968.49
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	77993	26.6081	26608.06
92 Naphthalene	128	11.544	11.540	(1.195)	341376	22.5796	22579.63
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	143022	22.4733	22473.31
M 94 1,2-Dichloroethylene (total)	96				189167	37.3156	37315.58
M 95 Xylenes (total)	106				539812	66.3493	66349.26
141 Cyclohexane	56	4.121	4.121	(0.987)	146408	27.4896	27489.57
138 Freon TF	101	1.910	1.913	(0.457)	96079	24.2467	24246.66
147 Methylcyclohexane	55	5.377	5.377	(1.084)	224735	24.1050	24104.95
146 Methyl Acetate	43	2.228	2.225	(0.533)	47185	19.4254	19425.40
148 Tert-Butyl alcohol	59	2.423	2.420	(0.580)	152457	407.875	407874.56
149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	80216	410.926	410925.65

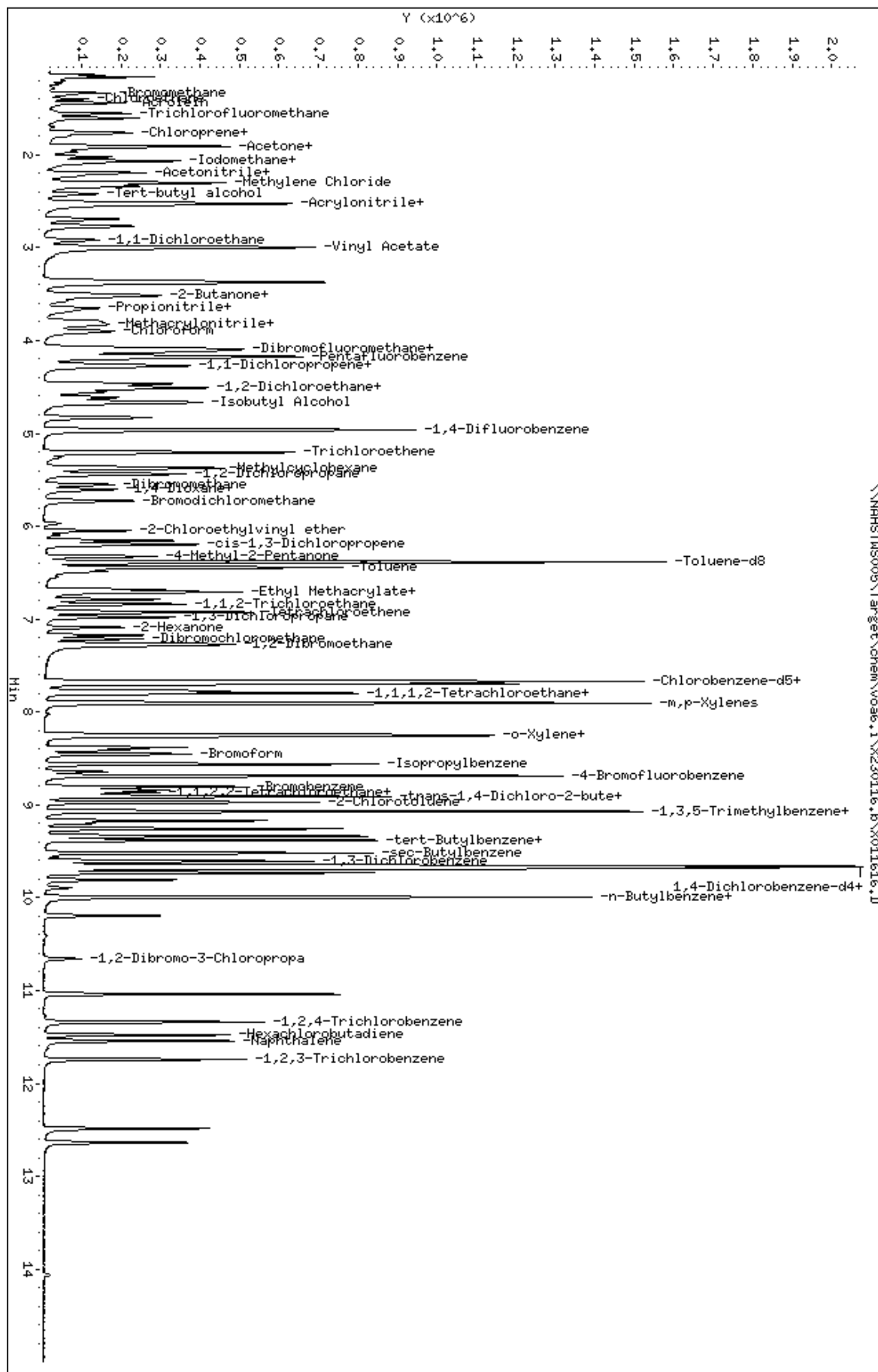
QC Flag Legend

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



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 Client ID: HS23010472-04MS
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 Purge Volume: 5.0
 Column phase: DB624

Instrument: voa6.1
 Operator: PC
 Column diameter: 0.18

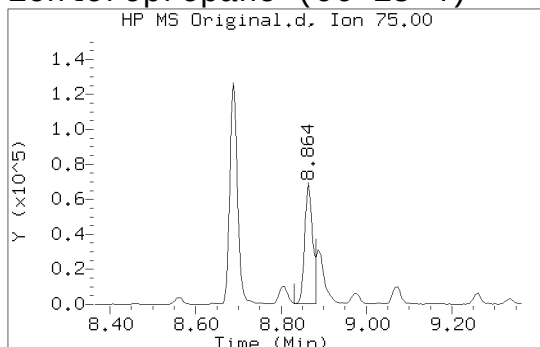


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Inj Date : 16-JAN-2023 15:45
InstruID : voa6.i
LabSampID : HS23010472-04MS

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

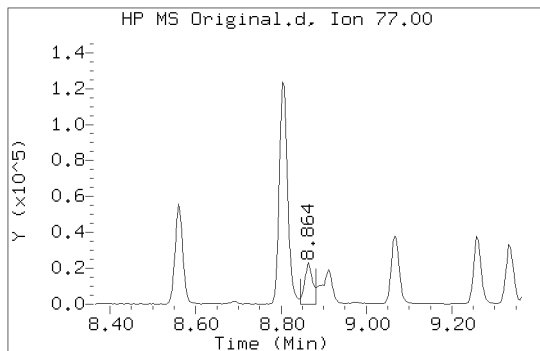
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09:57
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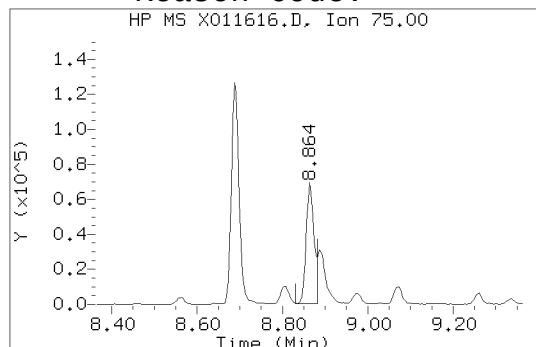
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09:57
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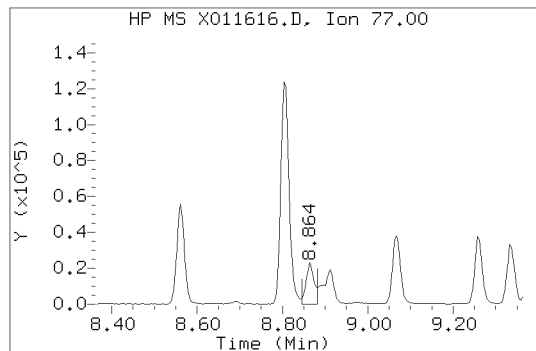
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25-Jan-2023
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AFTER

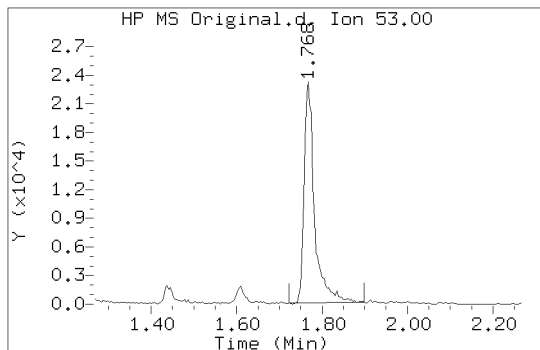
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Chloroprene (126-99-8)

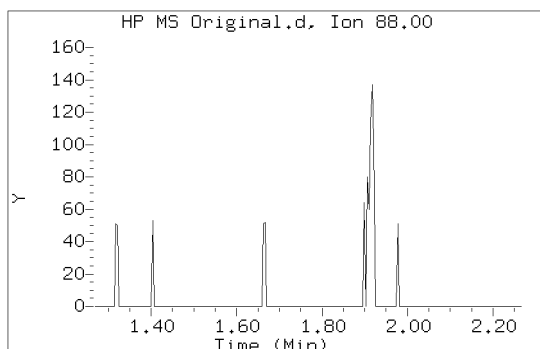
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25-Jan-2023
09:57
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pham



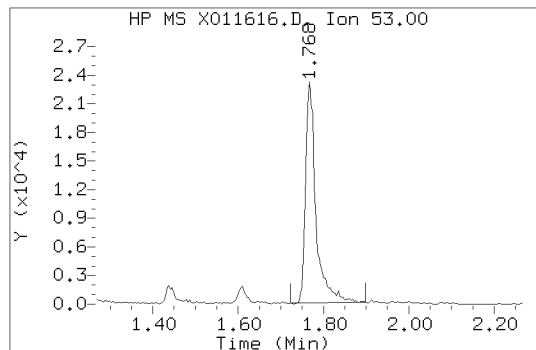
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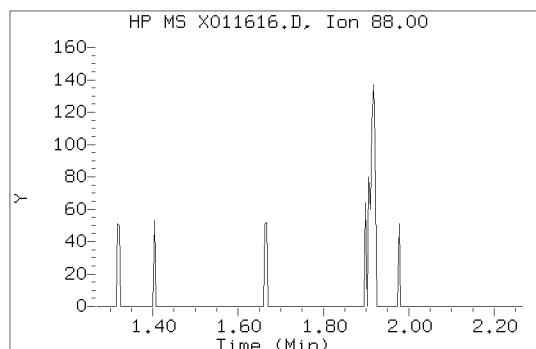
AFTER

MASS
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25-Jan-2023
09:57
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AFTER

MASS
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25-Jan-2023
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011617.D Page 1
 Report Date: 25-Jan-2023 09:58

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011617.D
 Lab Smp Id: HS23010472-04MSD Client Smp ID: HS23010472-04MSD
 Inj Date : 16-JAN-2023 16:06
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010472-04MSD;HS23010472-04MSD;3;;MSD
 Misc Info : V6;WATER;0;1000;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 16 QC Sample: MSD
 Dil Factor: 1000.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.174	(1.000)		538200	50.0000	
135 1,4-Dioxane	88		5.598	5.595	(1.340)		18089	367.684	367684.29(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		73815	19.9837	19983.67
25 Methacrylonitrile	41		3.825	3.814	(0.916)		71330	18.7173	18717.31
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		249653	412.407	412406.65
13 Acetonitrile	39		2.194	2.195	(0.525)		100781	205.747	205747.09
14 Allyl Chloride	41		2.194	2.195	(0.525)		179715	19.2638	19263.84
4 Propionitrile	54		3.649	3.645	(0.873)		103925	189.244	189244.48(a)
72 trans-1,4-Dichloro-2-butene	53		8.890	8.886	(1.159)		30611	20.5335	20533.53
194 Acetaldehyde	44		1.209	1.209	(0.289)		70391	207.224	207223.70
23 Chloroprene	53		1.767	1.767	(0.423)		41855	22.8722	22872.20(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		83546	19.8935	19893.46
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		69547	18.9515	18951.47
49 Ethyl Methacrylate	69		6.708	6.708	(1.352)		70234	19.5159	19515.85
131 Methyl Acrylate	55		3.686	3.683	(0.882)		75249	20.5941	20594.14
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		68443	18.4325	18432.49
3 Chloromethane	50		1.074	1.074	(0.257)		89613	19.8008	19800.84
5 Vinyl Chloride	62		1.141	1.141	(0.273)		95034	20.2136	20213.64
6 Bromomethane	94		1.336	1.336	(0.320)		69406	20.5936	20593.56
7 Chloroethane	64		1.400	1.400	(0.335)		60659	18.5367	18536.68



8 Trichlorofluoromethane	101	1.557	1.554 (0.373)	148933	22.6369	22636.86
9 Acrolein	56	1.437	1.441 (0.344)	15438	43.5808	43580.75

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011617.D Page 2
 Report Date: 25-Jan-2023 09:58

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
10 Acetone	43	1.970	1.966 (0.472)		46548	30.7999	30799.87
11 1,1-Dichloroethene	96	1.910	1.910 (0.457)		82910	20.2977	20297.70
15 Iodomethane	142	2.022	2.022 (0.484)		177207	36.0304	36030.41
16 Acrylonitrile	53	2.532	2.524 (0.606)		55997	40.4203	40420.33
17 Methylene Chloride	84	2.299	2.300 (0.550)		98220	17.5303	17530.28
18 Methyl tert-butyl ether	73	2.532	2.528 (0.606)		249498	18.6610	18660.96
19 Carbon Disulfide	76	2.067	2.063 (0.495)		422702	39.5527	39552.71
20 trans-1,2-Dichloroethene	96	2.524	2.524 (0.604)		86278	18.8730	18872.95
21 Vinyl Acetate	43	2.993	2.993 (0.716)		479289	40.8368	40836.76
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)		149967	18.6919	18691.93
24 2-Butanone	43	3.574	3.570 (0.856)		52865	35.0298	35029.78
26 2,2-Dichloropropane	77	3.506	3.507 (0.839)		138748	20.3680	20368.01
27 cis-1,2-Dichloroethene	96	3.521	3.522 (0.843)		99135	17.8189	17818.93
28 Chloroform	83	3.904	3.900 (0.934)		163472	18.1789	18178.93
29 Bromochloromethane	128	3.795	3.792 (0.908)		50585	16.6064	16606.37
\$ 30 Dibromofluoromethane	113	4.095	4.095 (0.980)		234601	45.3815	45.38
31 1,1,1-Trichloroethane	97	4.080	4.080 (0.977)		145728	20.4254	20425.38
32 1,1-Dichloropropene	75	4.279	4.275 (0.862)		124587	22.9626	22962.55
33 1,2-Dichloroethane	62	4.556	4.552 (0.918)		125287	20.0087	20008.74
34 Carbon Tetrachloride	117	4.260	4.260 (0.859)		128387	22.1592	22159.24
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466 (1.070)		260443	47.7604	47.76
* 36 1,4-Difluorobenzene	114	4.961	4.965 (1.000)		764232	50.0000	
37 Benzene	78	4.507	4.508 (0.909)		361558	19.8117	19811.74
38 Trichloroethene	130	5.205	5.205 (1.049)		198626	38.3730	38372.96
39 Bromodichloromethane	83	5.726	5.722 (1.154)		128879	18.8173	18817.27
41 2-Chloroethylvinyl ether	63	6.048	6.044 (1.219)		85773	44.0200	44020.02
42 1,2-Dichloropropane	63	5.433	5.433 (1.095)		92037	18.9590	18959.03
44 Dibromomethane	93	5.553	5.550 (1.119)		62193	18.8485	18848.53
45 4-Methyl-2-Pentanone	43	6.325	6.322 (0.825)		161723	43.8140	43814.02
46 cis-1,3-Dichloropropene	75	6.157	6.153 (1.241)		156455	19.4510	19450.95
* 47 Chlorobenzene-d5	117	7.667	7.668 (1.000)		690575	50.0000	
\$ 48 Toluene-d8	98	6.385	6.386 (0.833)		891024	52.2148	52.21
50 Toluene	91	6.445	6.446 (0.841)		400635	20.9892	20989.17
51 trans-1,3-Dichloropropene	75	6.682	6.678 (1.347)		130359	19.5288	19528.83
52 2-Hexanone	43	7.086	7.083 (0.924)		105343	41.9473	41947.26
53 1,1,2-Trichloroethane	83	6.839	6.835 (0.892)		74425	19.4356	19435.55
54 1,3-Dichloropropane	76	6.981	6.982 (0.911)		150670	19.9898	19989.82
55 Dibromochloromethane	129	7.173	7.177 (0.935)		105233	19.0405	19040.52
56 Tetrachloroethene	164	6.925	6.925 (0.903)		90481	22.9105	22910.53
57 1,2-Dibromoethane	107	7.259	7.259 (0.947)		97219	20.3056	20305.62
58 1-Chlorohexane	55	7.694	7.694 (1.551)		95508	25.8599	25859.89
59 Chlorobenzene	112	7.694	7.694 (1.003)		269848	19.9315	19931.45
60 1,1,1,2-Tetrachloroethane	131	7.772	7.773 (1.014)		98748	19.5989	19598.93
61 Ethylbenzene	106	7.799	7.799 (1.017)		139750	21.9130	21913.04
62 m,p-Xylenes	106	7.904	7.904 (1.031)		351382	42.7404	42740.39
63 o-Xylene	106	8.241	8.241 (1.075)		169956	20.9451	20945.09
64 Styrene	104	8.260	8.260 (1.077)		285818	21.0150	21015.02
66 Bromoform	173	8.410	8.410 (1.097)		72564	18.9518	18951.82
67 Isopropylbenzene	105	8.560	8.560 (1.116)		437811	23.6165	23616.54
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)		120727	19.6889	19688.91
\$ 69 4-Bromofluorobenzene	95	8.687	8.687 (1.133)		322920	50.6255	50.62
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)		384710	50.0000	



71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	87115	20.3506	20350.59(M)
73 n-Propylbenzene	91	8.912	8.912 (0.922)	521553	24.4751	24475.09

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011617.D Page 3
 Report Date: 25-Jan-2023 09:58

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
74 Bromobenzene	156	8.803	8.803	(0.911)	127383	20.1819	20181.89
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	366944	23.3098	23309.83
76 2-Chlorotoluene	91	8.976	8.972	(0.929)	298228	21.3271	21327.08
77 4-Chlorotoluene	91	9.069	9.070	(0.939)	350259	21.9721	21972.12
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	317104	24.6087	24608.65
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	369246	22.2923	22292.33
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	443350	25.8587	25858.67
82 p-Isopropyltoluene	119	9.647	9.651	(0.998)	389850	25.3748	25374.80
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	223600	21.3439	21343.89
84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	234066	20.4751	20475.05
87 n-Butylbenzene	91	9.995	9.992	(1.035)	348918	24.5036	24503.60
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	219424	20.3374	20337.36
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	19014	19.4523	19452.25
90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	152769	22.4365	22436.52
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	73330	24.4228	24422.84
92 Naphthalene	128	11.544	11.540	(1.195)	343307	22.1603	22160.25
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	139832	21.4427	21442.68
M 94 1,2-Dichloroethylene (total)	96				185413	36.6919	36691.89
M 95 Xylenes (total)	106				521338	63.6855	63685.48
141 Cyclohexane	56	4.118	4.121	(0.986)	139696	26.3621	26362.14
138 Freon TF	101	1.910	1.913	(0.457)	92048	23.2990	23299.01
147 Methylcyclohexane	55	5.377	5.377	(1.084)	217235	23.2217	23221.69
146 Methyl Acetate	43	2.228	2.225	(0.533)	47470	19.6013	19601.30
148 Tert-Butyl alcohol	59	2.423	2.420	(0.580)	149591	401.406	401406.47
149 Isopropyl Alcohol	45	2.089	2.086	(0.500)	82793	425.398	425398.07

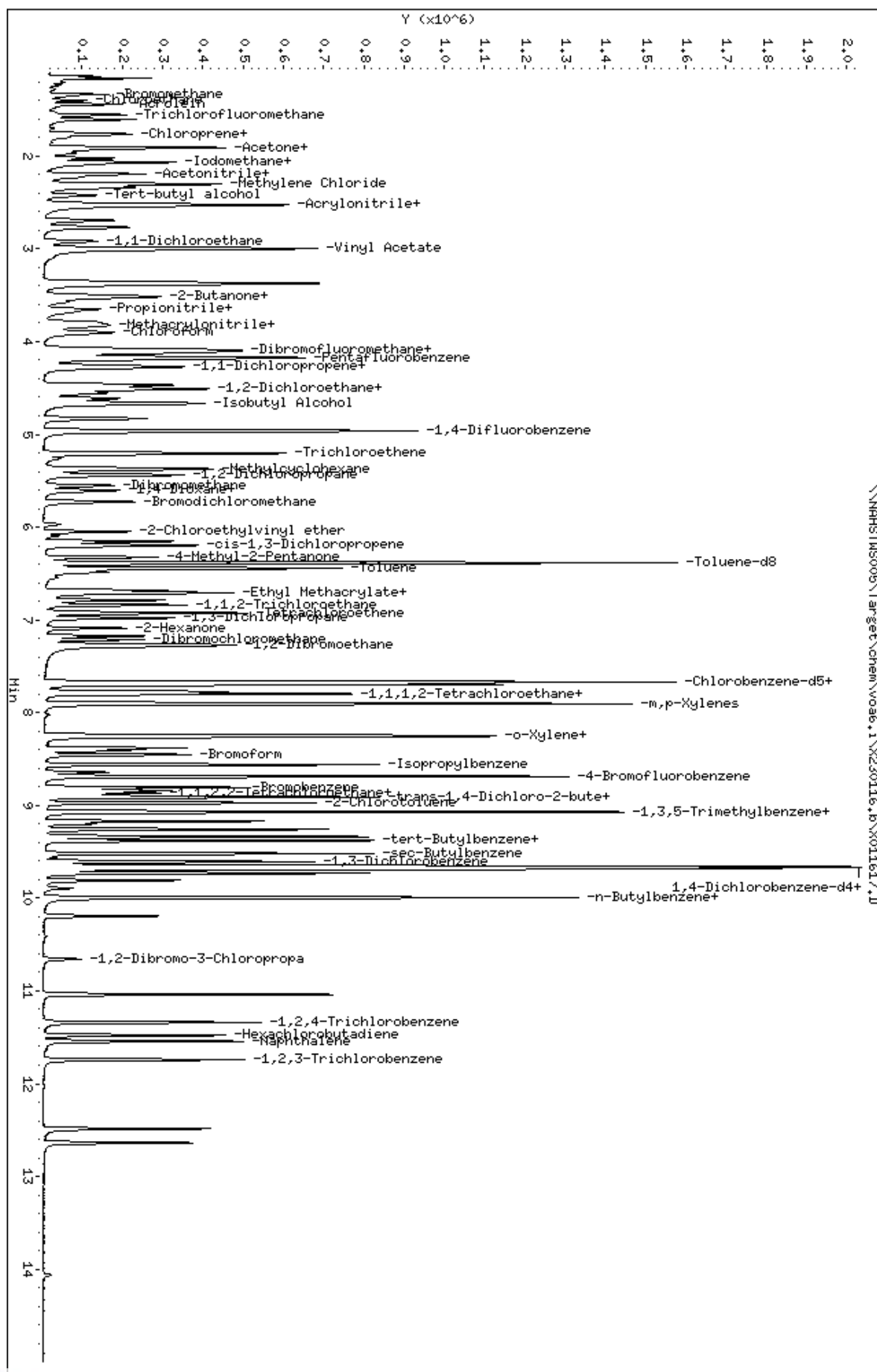
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230116.b\X011617.D
 Date : 16-JAN-2023 16:06
 Client ID: HS23010472-04HSD
 Sample Info: HS23010472-04HSD;HS23010472-04HSD;3;HSD
 Purge Volume: 5.0
 Column phase: DB624

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

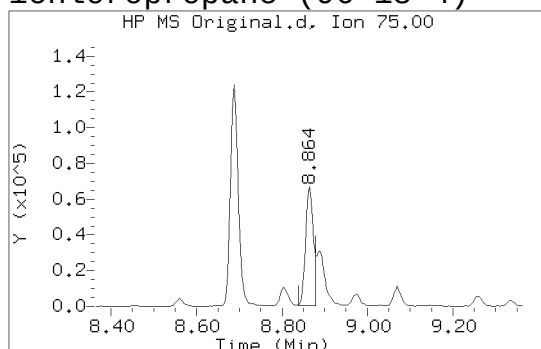


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Inj Date : 16-JAN-2023 16:06
InstruID : voa6.i
LabSampID : HS23010472-04MSD

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

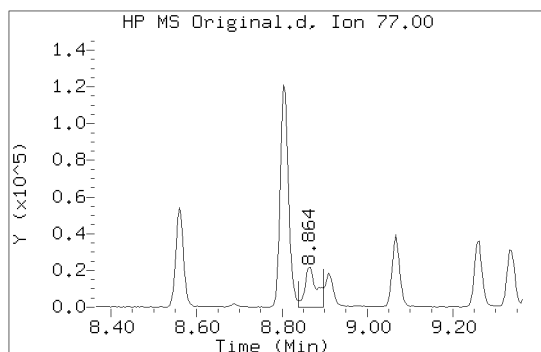
BEFORE

MASS
75
AREA
87115
HEIGHT
66885
25-Jan-2023
09:57
linh



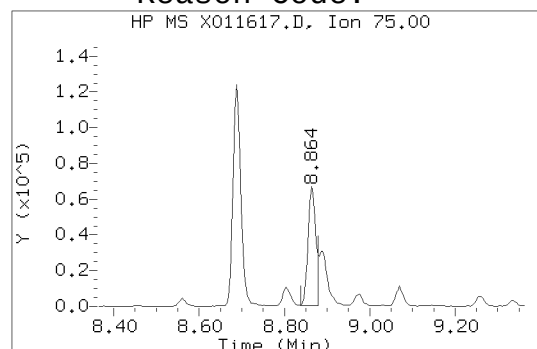
BEFORE

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AREA
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HEIGHT
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25-Jan-2023
09:57
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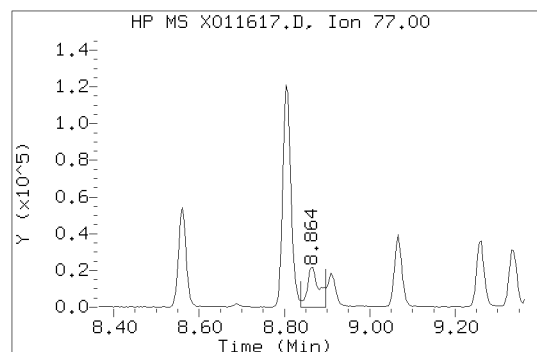
AFTER

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AREA
87115
HEIGHT
66885
25-Jan-2023
09:57
linh



AFTER

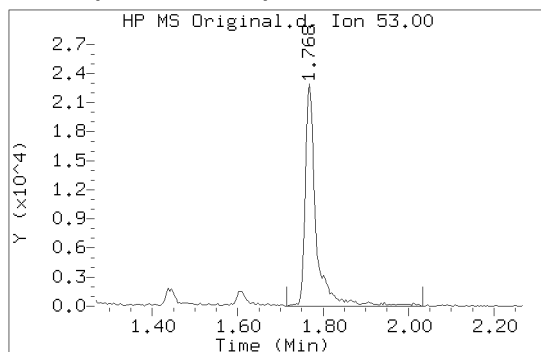
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HEIGHT
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25-Jan-2023
09:57
linh
pham



Chloroprene (126-99-8)

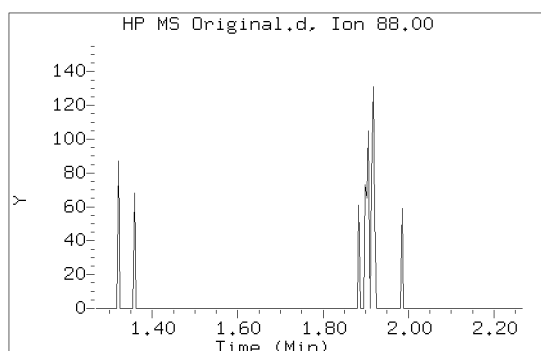
BEFORE

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HEIGHT
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25-Jan-2023
09:57
linh
pham



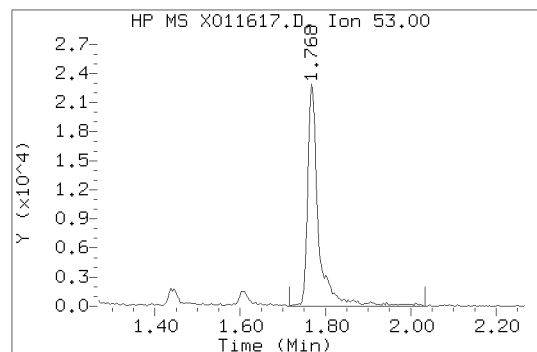
BEFORE

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25-Jan-2023
09:57
linh
pham



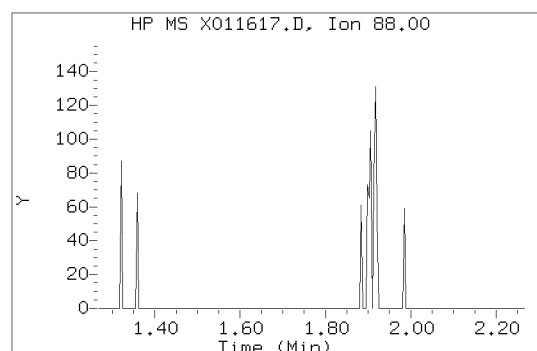
AFTER

MASS
53
AREA
41855
HEIGHT
22928
25-Jan-2023
09:57
linh
pham



AFTER

MASS
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AREA
0
HEIGHT
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25-Jan-2023
09:57
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011620.D Page 1
 Report Date: 25-Jan-2023 09:58

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011620.D
 Lab Smp Id: HS23010587-01 Client Smp ID: HS23010587-01
 Inj Date : 16-JAN-2023 17:09
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010587-01;HS23010587-01;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168		4.178	4.174	(1.000)	527869	50.0000	
11 1,1-Dichloroethene	96		1.913	1.910	(0.458)	9843	2.45689	2.45(a)
\$ 30 Dibromofluoromethane	113		4.095	4.095	(0.980)	235563	46.4634	46.46
\$ 35 1,2-Dichloroethane-d4	65		4.466	4.466	(1.069)	260332	48.6692	48.66
* 36 1,4-Difluorobenzene	114		4.965	4.965	(1.000)	750823	50.0000	
* 47 Chlorobenzene-d5	117		7.668	7.668	(1.000)	661126	50.0000	
\$ 48 Toluene-d8	98		6.386	6.386	(0.833)	876678	53.6625	53.66
\$ 69 4-Bromofluorobenzene	95		8.687	8.687	(1.133)	299864	49.1069	49.10
* 70 1,4-Dichlorobenzene-d4	152		9.662	9.662	(1.000)	344700	50.0000	

QC Flag Legend

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



Data File: \\NAHSTUS005\Target\chem\voa6.i\X230116.b\X011620.D

Date: 16-JAN-2023 17:09

Client ID: HS23010587-01

Sample Info: HS23010587-01;HS23010587-01;;

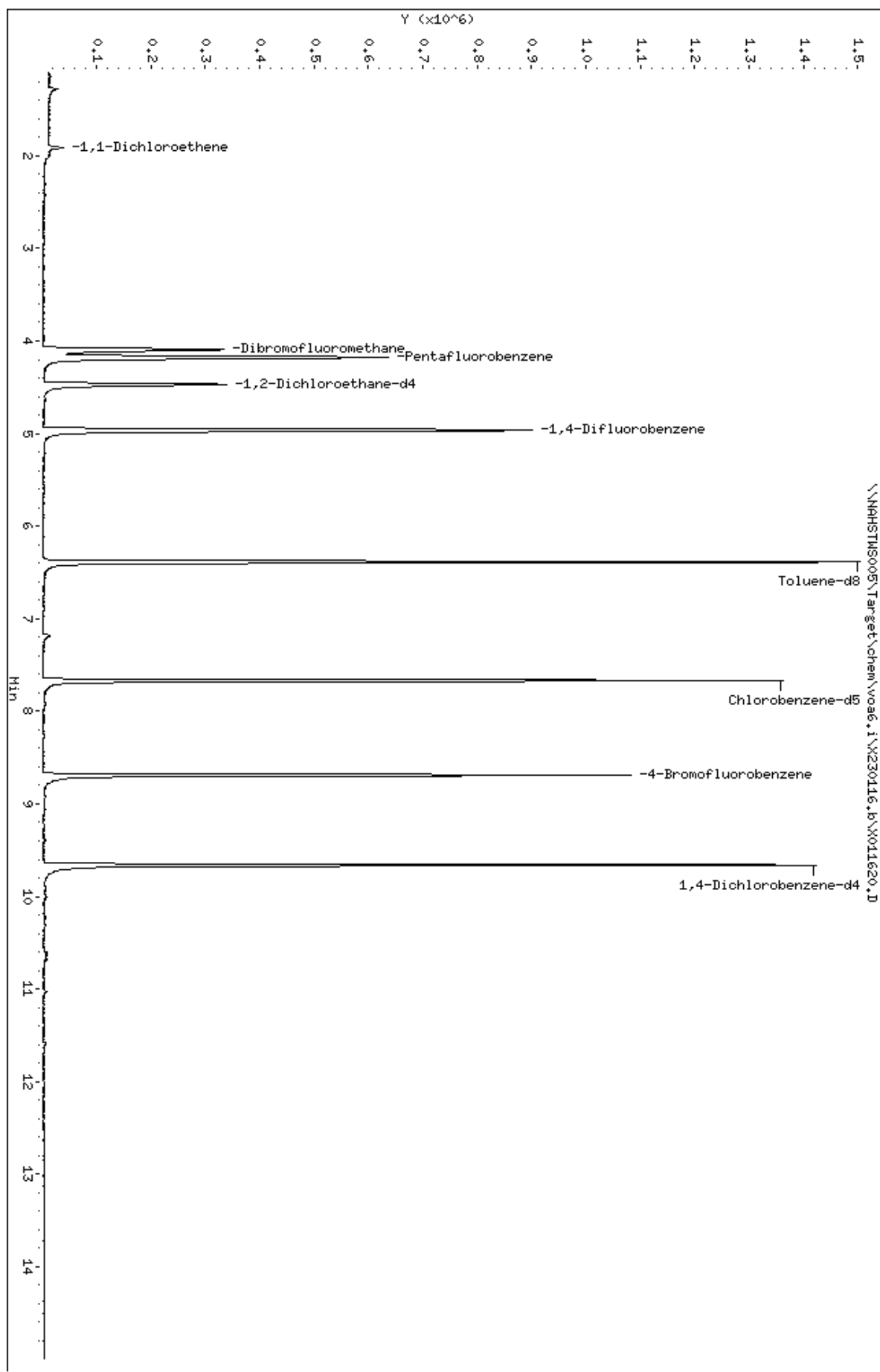
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011620.D

Page 2

Date : 16-JAN-2023 17:09

Client ID: HS23010587-01

Instrument: voa6.i

Sample Info: HS23010587-01;HS23010587-01;;;

Purge Volume: 5.0

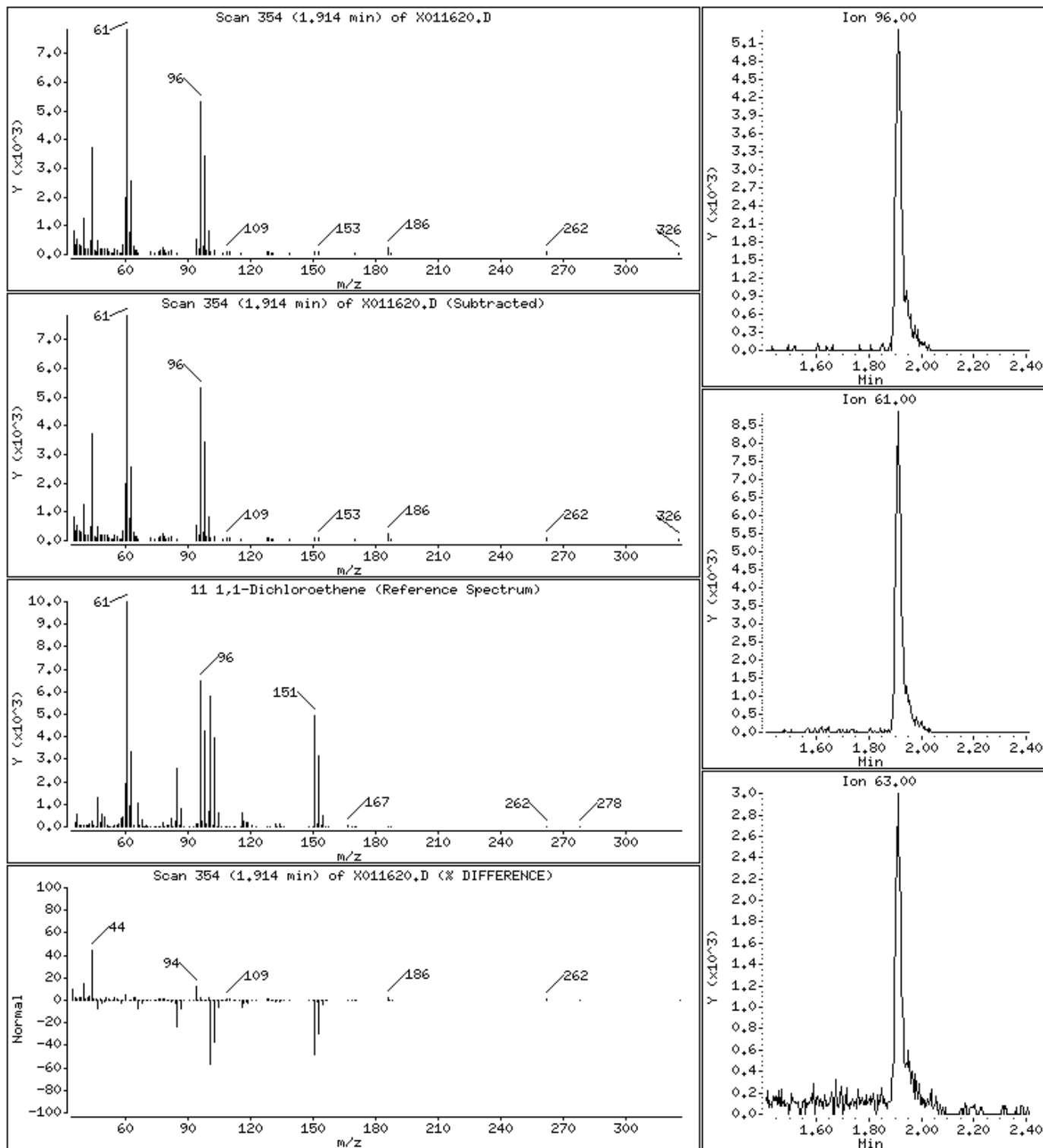
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 2.45 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011620.D
Inj Date : 16-JAN-2023 17:09
InstruID : voa6.i
LabSampID : HS23010587-01

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011621.D Page 1
 Report Date: 25-Jan-2023 09:58

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011621.D
 Lab Smp Id: HS23010587-03 Client Smp ID: HS23010587-03
 Inj Date : 16-JAN-2023 17:30
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010587-03;HS23010587-03;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.174	4.174	(1.000)		541883	50.0000	
5 Vinyl Chloride	62		1.141	1.141	(0.273)		267386	56.4862	56.48
11 1,1-Dichloroethene	96		1.913	1.910	(0.458)		70001	17.0209	17.02
22 1,1-Dichloroethane	63		2.918	2.918	(0.699)		127469	15.7798	15.77
27 cis-1,2-Dichloroethene	96		3.537	3.522	(0.847)		5363	0.95742	0.95(a)
\$ 30 Dibromofluoromethane	113		4.095	4.095	(0.981)		233852	44.9275	44.92
\$ 35 1,2-Dichloroethane-d4	65		4.466	4.466	(1.070)		257691	46.9393	46.93
* 36 1,4-Difluorobenzene	114		4.965	4.965	(1.000)		762070	50.0000	
38 Trichloroethene	130		5.208	5.205	(1.049)		10167	1.96976	1.96(a)
* 47 Chlorobenzene-d5	117		7.668	7.668	(1.000)		669118	50.0000	
\$ 48 Toluene-d8	98		6.386	6.386	(0.833)		886716	53.6286	53.62
\$ 69 4-Bromofluorobenzene	95		8.687	8.687	(1.133)		301226	48.7412	48.74
* 70 1,4-Dichlorobenzene-d4	152		9.662	9.662	(1.000)		348714	50.0000	
M 94 1,2-Dichloroethylene (total)	96						5363	0.95742	0.95(a)

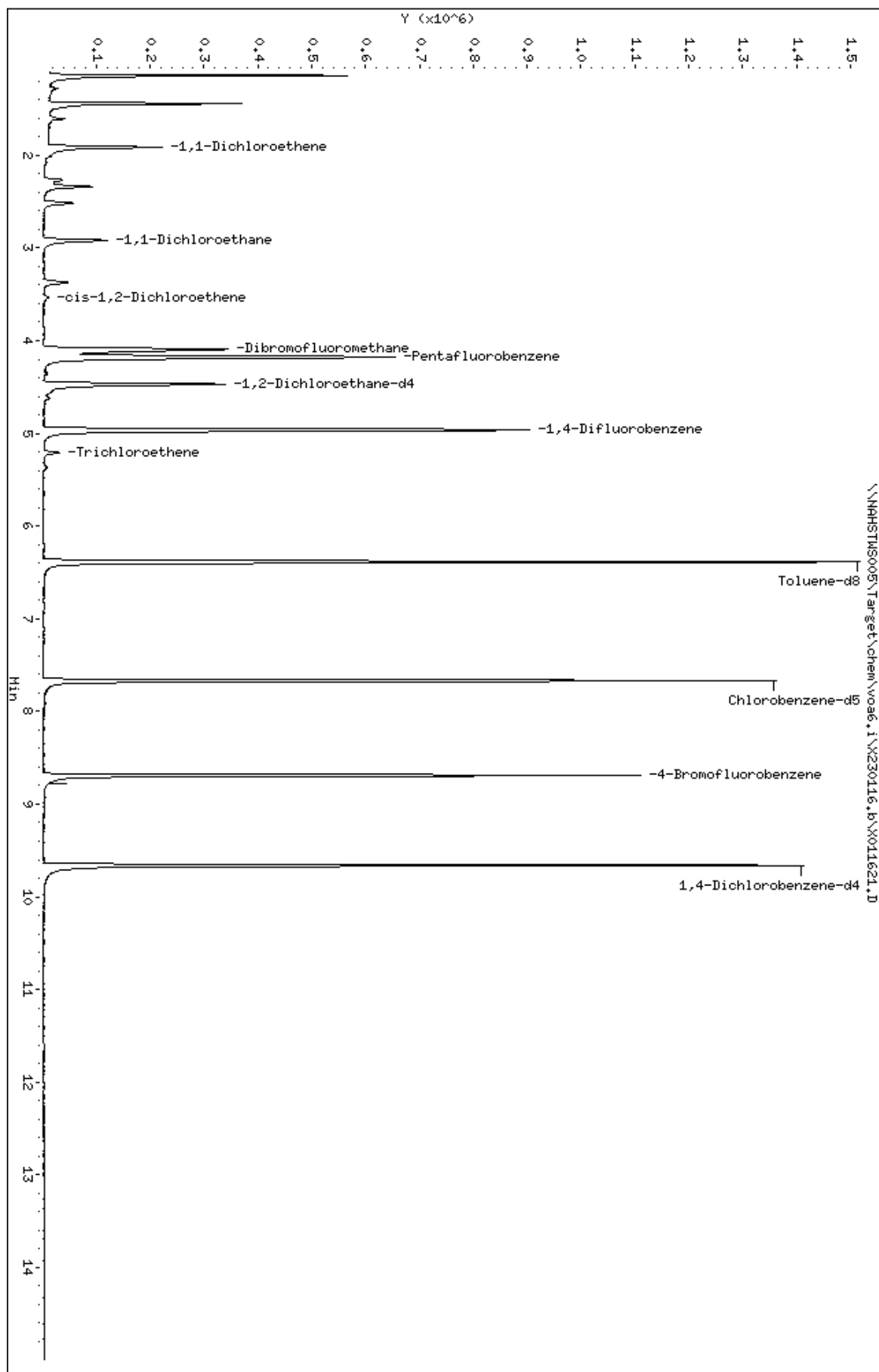
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230116.b\X011621.D
Date : 16-JAN-2023 17:30
Client ID: HS23010587-03
Sample Info: HS23010587-03\HS23010587-03;;;
Purge Volume: 5.0
Column phase: DB624

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230116.b\X011621.D

Page 2

Date : 16-JAN-2023 17:30

Client ID: HS23010587-03

Instrument: voa6.i

Sample Info: HS23010587-03;HS23010587-03;;

Purge Volume: 5.0

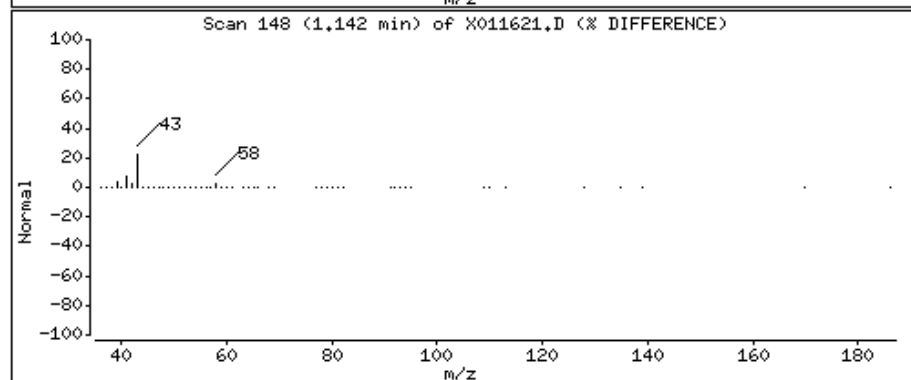
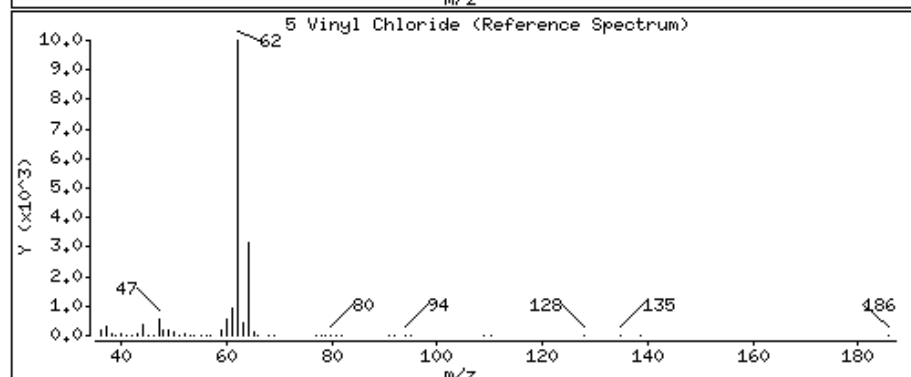
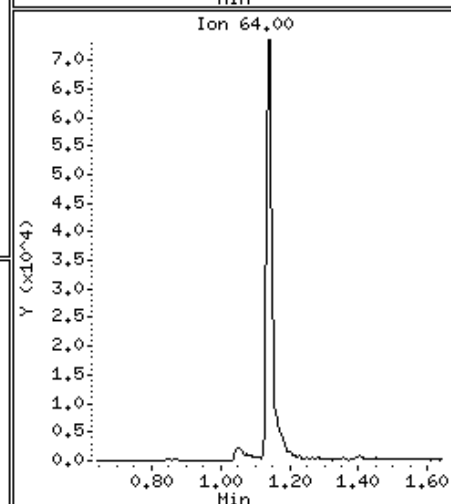
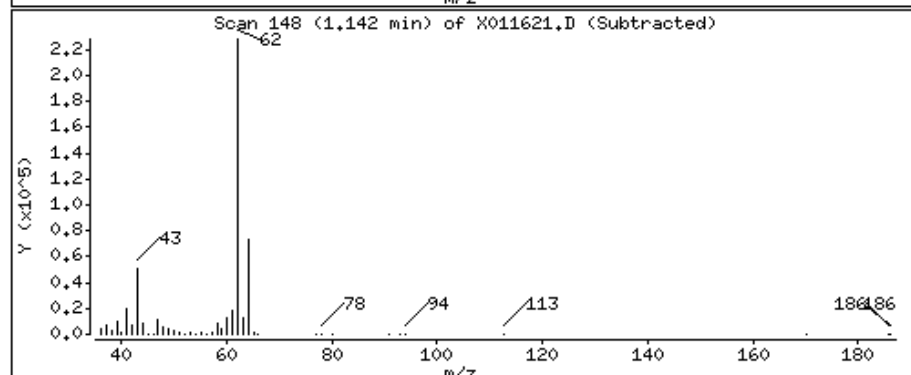
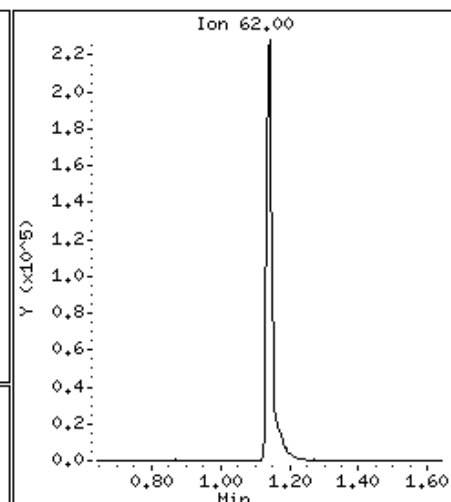
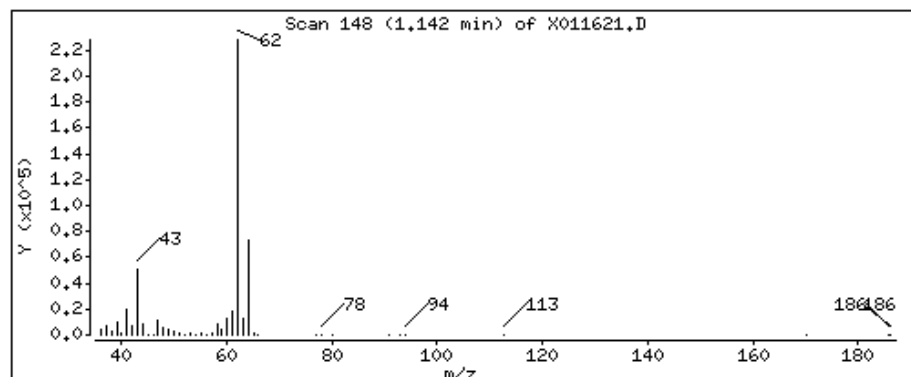
Operator: PC

Column phase: DB624

Column diameter: 0,18

5 Vinyl Chloride

Concentration: 56,48 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011621.D

Page 3

Date : 16-JAN-2023 17:30

Client ID: HS23010587-03

Instrument: voa6.i

Sample Info: HS23010587-03;HS23010587-03;;

Purge Volume: 5.0

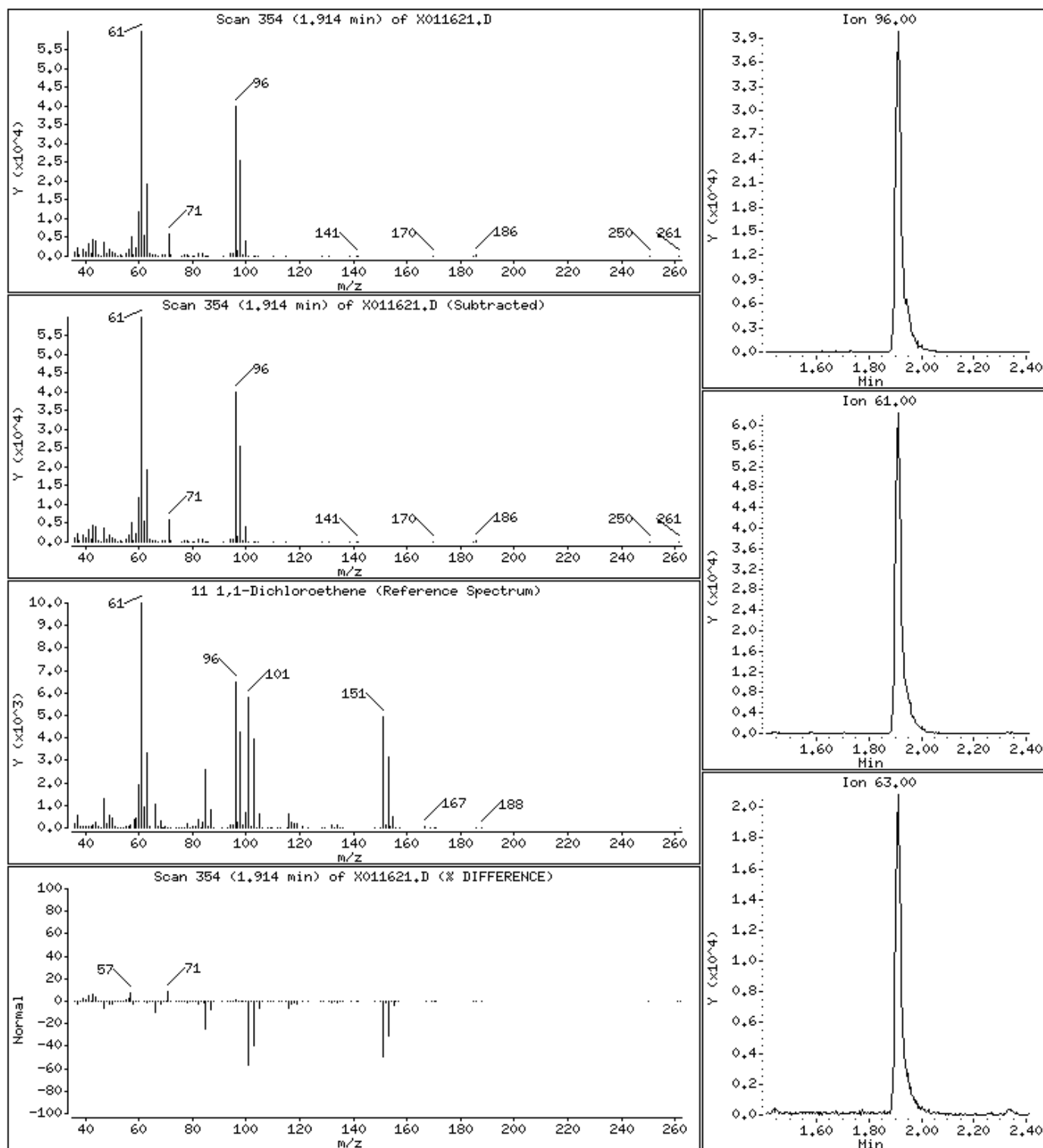
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 17.02 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011621.D

Page 4

Date : 16-JAN-2023 17:30

Client ID: HS23010587-03

Instrument: voa6.i

Sample Info: HS23010587-03;HS23010587-03;;

Purge Volume: 5.0

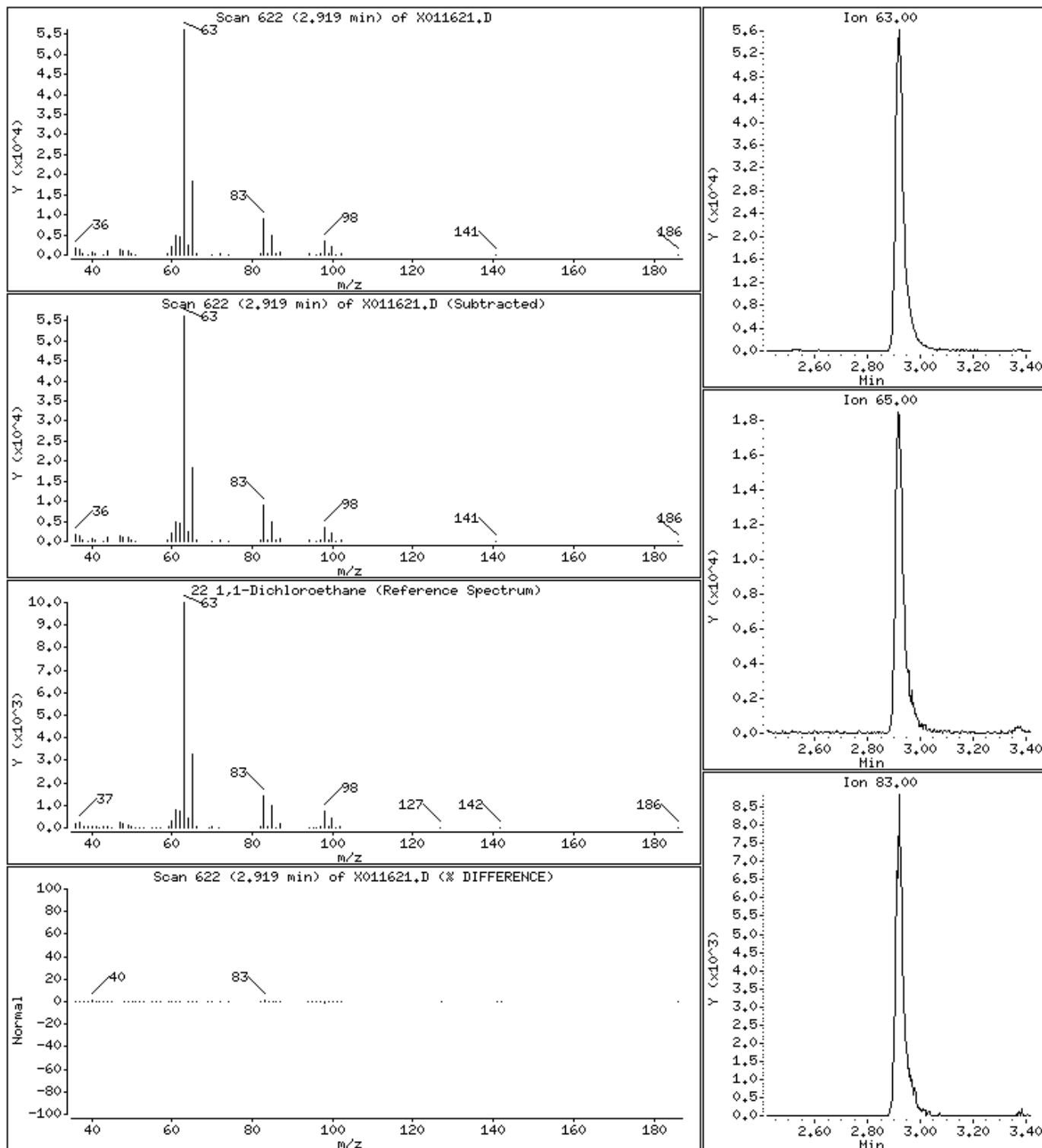
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 15.77 ug/l



Data File: \\NAHSTMS005\Target\chem\voa6.i\X011621.D

Page 5

Date : 16-JAN-2023 17:30

Client ID: HS23010587-03

Instrument: voa6.i

Sample Info: HS23010587-03;HS23010587-03;;

Purge Volume: 5.0

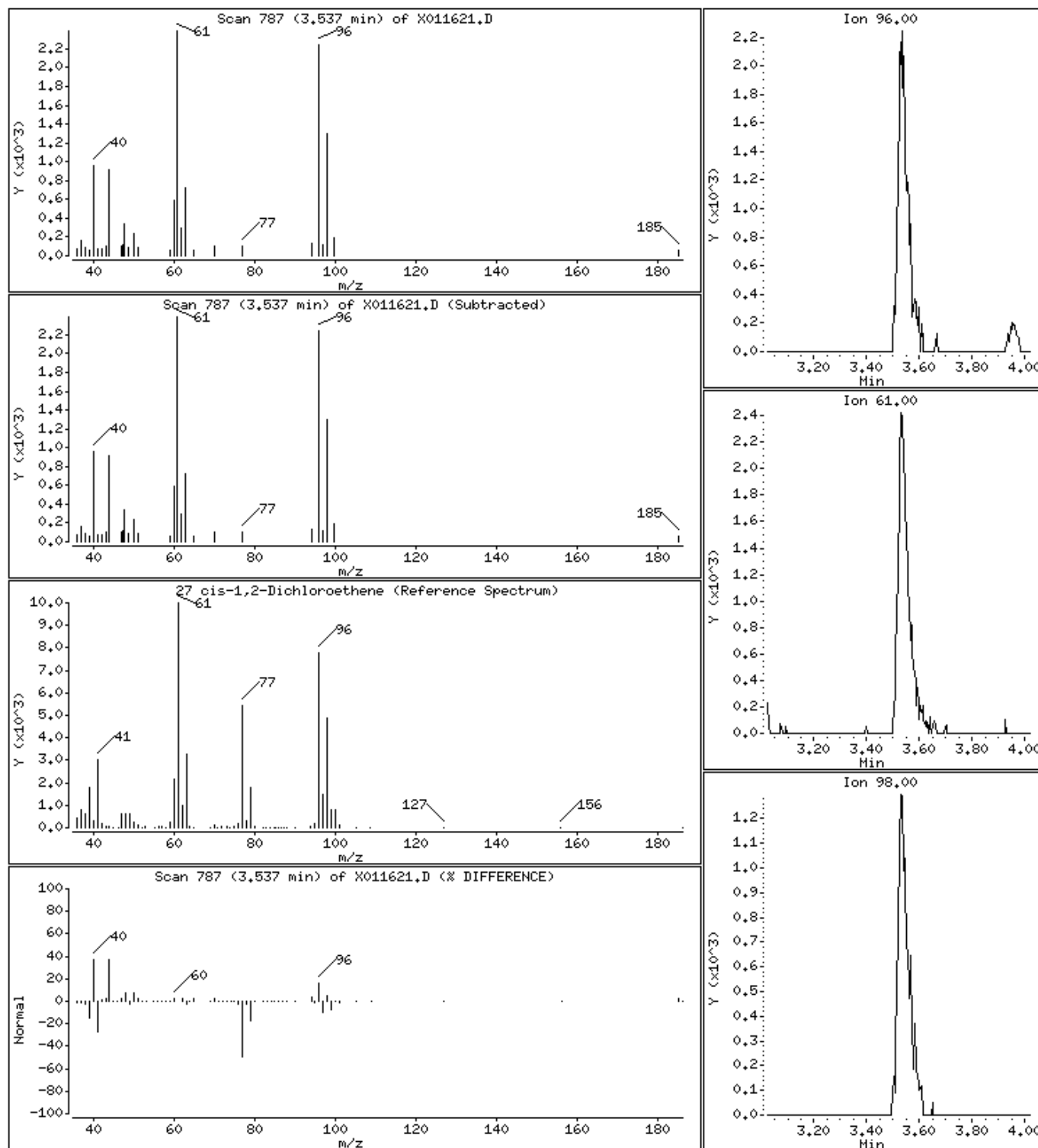
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 0.95 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011621.D

Page 6

Date : 16-JAN-2023 17:30

Client ID: HS23010587-03

Instrument: voa6.i

Sample Info: HS23010587-03;HS23010587-03;;

Purge Volume: 5.0

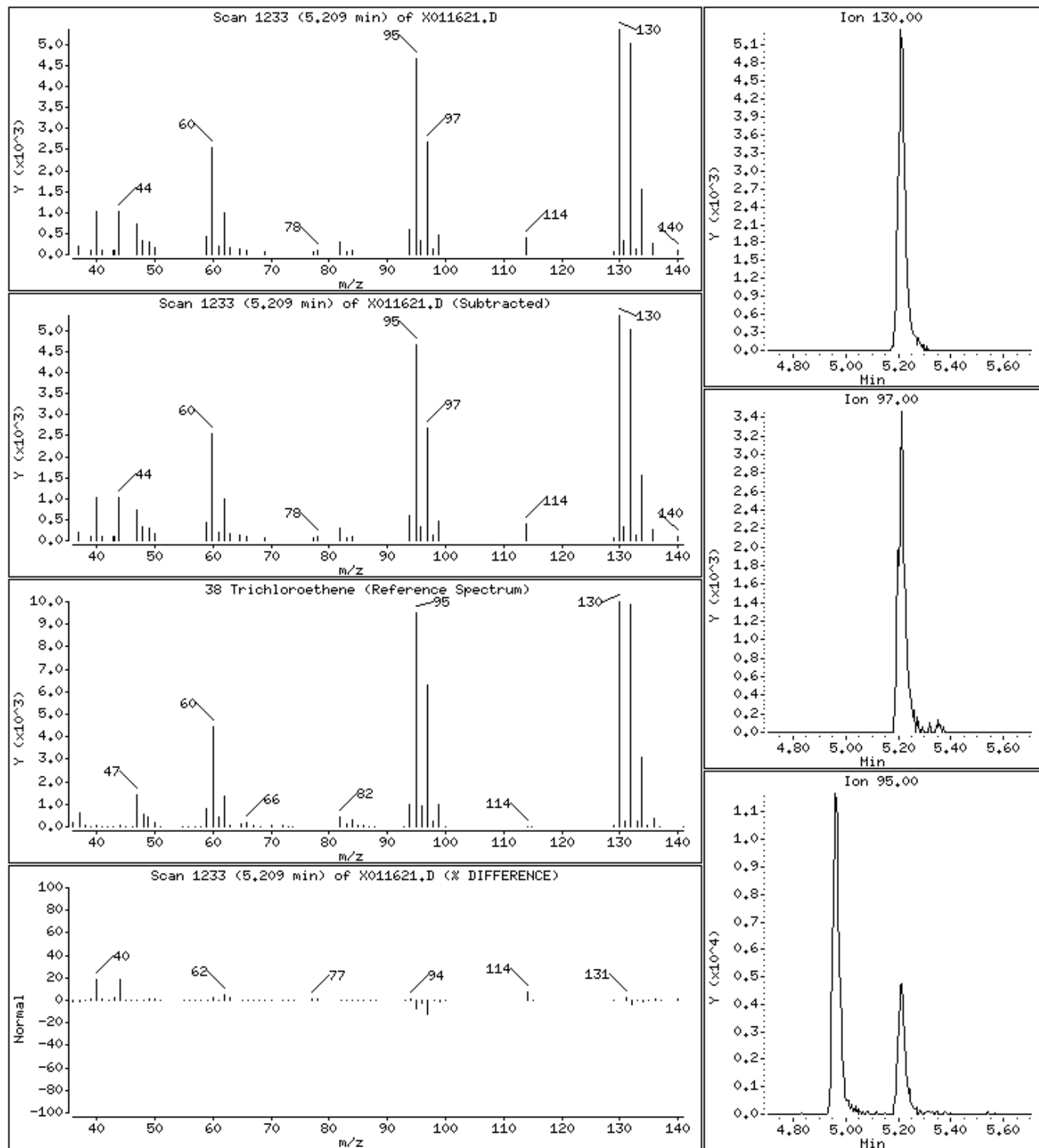
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 1.96 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011621.D
Inj Date : 16-JAN-2023 17:30
InstruID : voa6.i
LabSampID : HS23010587-03

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011622.D Page 1
 Report Date: 25-Jan-2023 09:58

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011622.D
 Lab Smp Id: HS23010587-04 Client Smp ID: HS23010587-04
 Inj Date : 16-JAN-2023 17:51
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010587-04;HS23010587-04;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168		4.177	4.174	(1.000)	522542	50.0000	
11 1,1-Dichloroethene	96		1.910	1.910	(0.457)	4058	1.02323	1.02(a)
\$ 30 Dibromofluoromethane	113		4.095	4.095	(0.980)	233463	46.5188	46.51
\$ 35 1,2-Dichloroethane-d4	65		4.466	4.466	(1.069)	255831	48.3173	48.31
* 36 1,4-Difluorobenzene	114		4.961	4.965	(1.000)	748281	50.0000	
* 47 Chlorobenzene-d5	117		7.667	7.668	(1.000)	656085	50.0000	
\$ 48 Toluene-d8	98		6.385	6.386	(0.833)	870403	53.6877	53.68
\$ 69 4-Bromofluorobenzene	95		8.687	8.687	(1.133)	299927	49.4941	49.49
* 70 1,4-Dichlorobenzene-d4	152		9.662	9.662	(1.000)	343676	50.0000	

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230116.b\X011622.D

Date : 16-JAN-2023 17:51

Client ID: HS23010587-04

Sample Info: HS23010587-04;HS23010587-04;;;

Purge Volume: 5.0

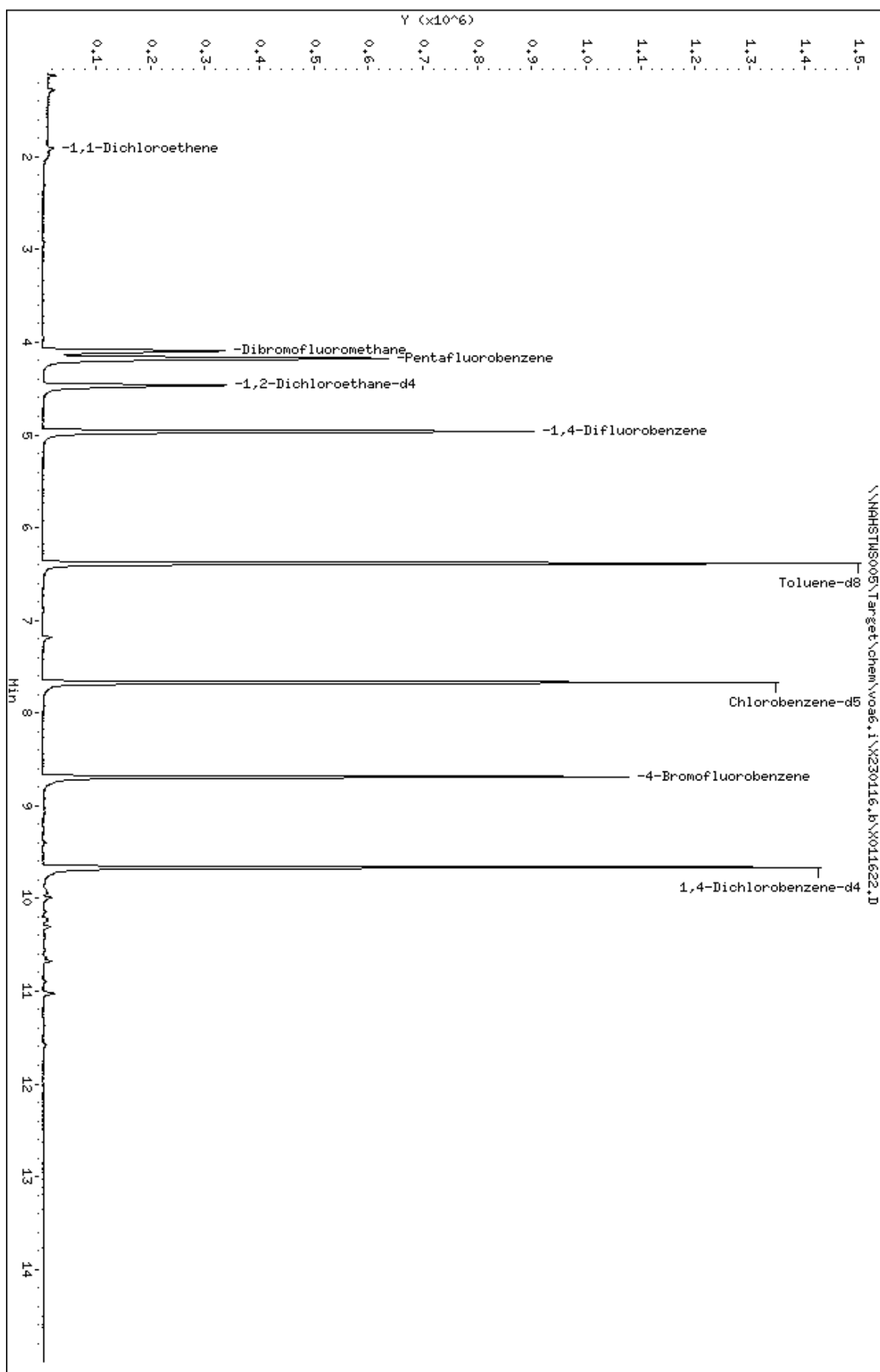
Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18

Page 1



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011622.D

Page 2

Date : 16-JAN-2023 17:51

Client ID: HS23010587-04

Instrument: voa6.i

Sample Info: HS23010587-04;HS23010587-04;;;

Purge Volume: 5.0

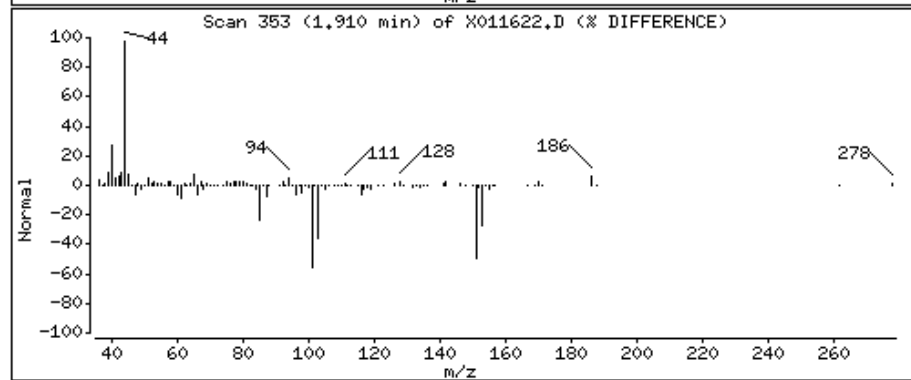
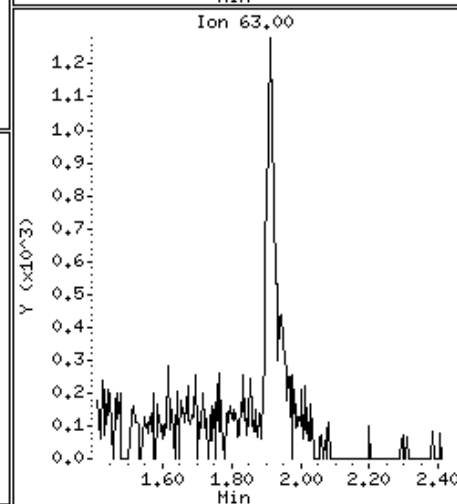
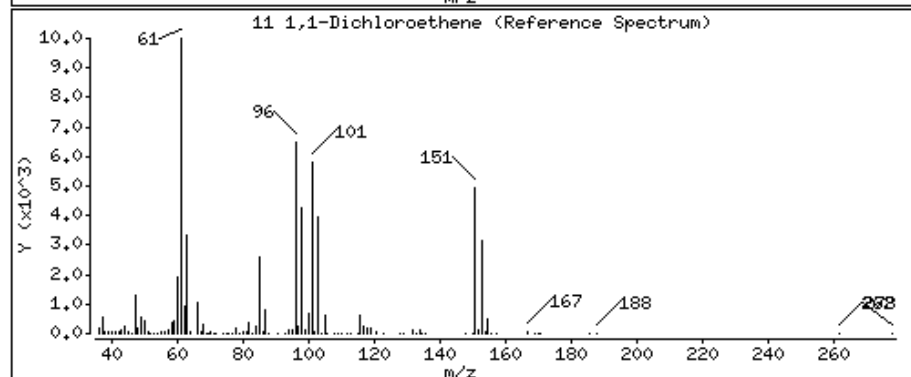
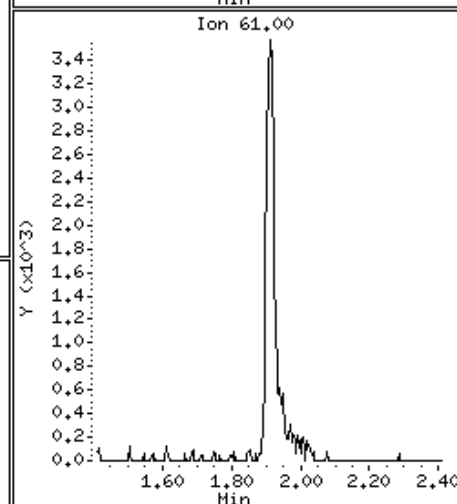
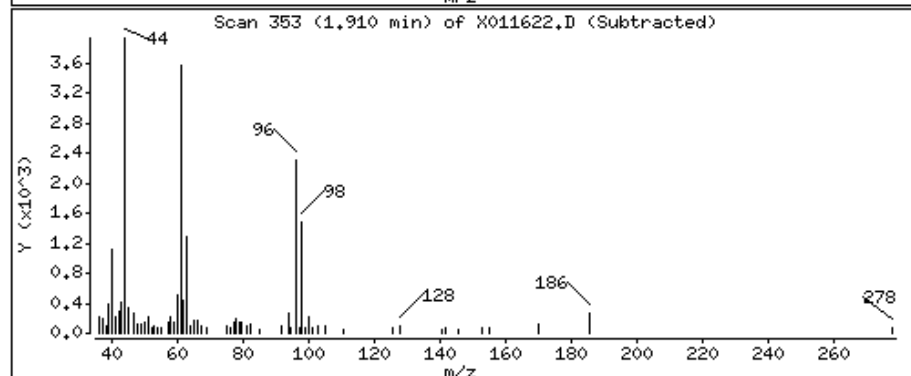
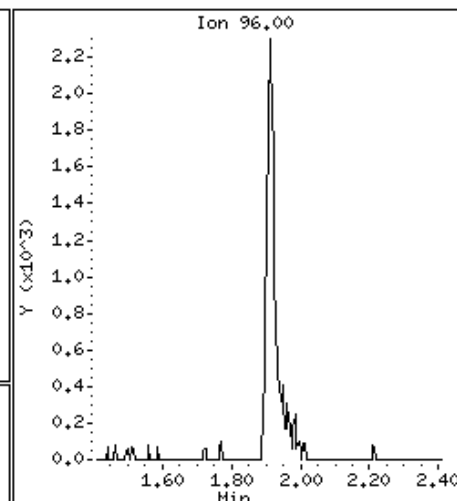
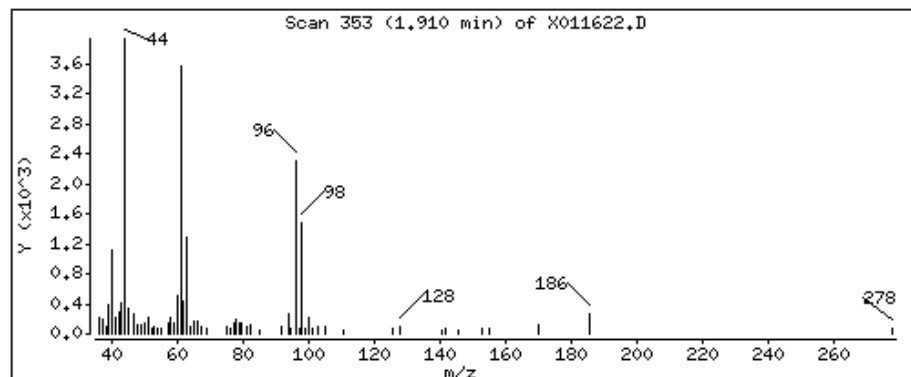
Operator: PC

Column phase: DB624

Column diameter: 0,18

11 1,1-Dichloroethene

Concentration: 1.02 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011622.D
Inj Date : 16-JAN-2023 17:51
InstruID : voa6.i
LabSampID : HS23010587-04

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011623.D Page 1
 Report Date: 25-Jan-2023 09:58

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011623.D
 Lab Smp Id: HS23010587-05 Client Smp ID: HS23010587-05
 Inj Date : 16-JAN-2023 18:12
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010587-05;HS23010587-05;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:57 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.174	(1.000)	537619	50.0000	
10 Acetone	43	1.970	1.966	(0.472)	19817	13.1070	13.10
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	238177	46.1258	46.12
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	261050	47.9225	47.92
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	767501	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	683936	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	880626	52.1064	52.10
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	305983	48.4386	48.43
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	355282	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230116.b\X011623.D

Date: 16-JAN-2023 18:12

Client ID: HS23010587-05

Sample Info: HS23010587-05;HS23010587-05;;;

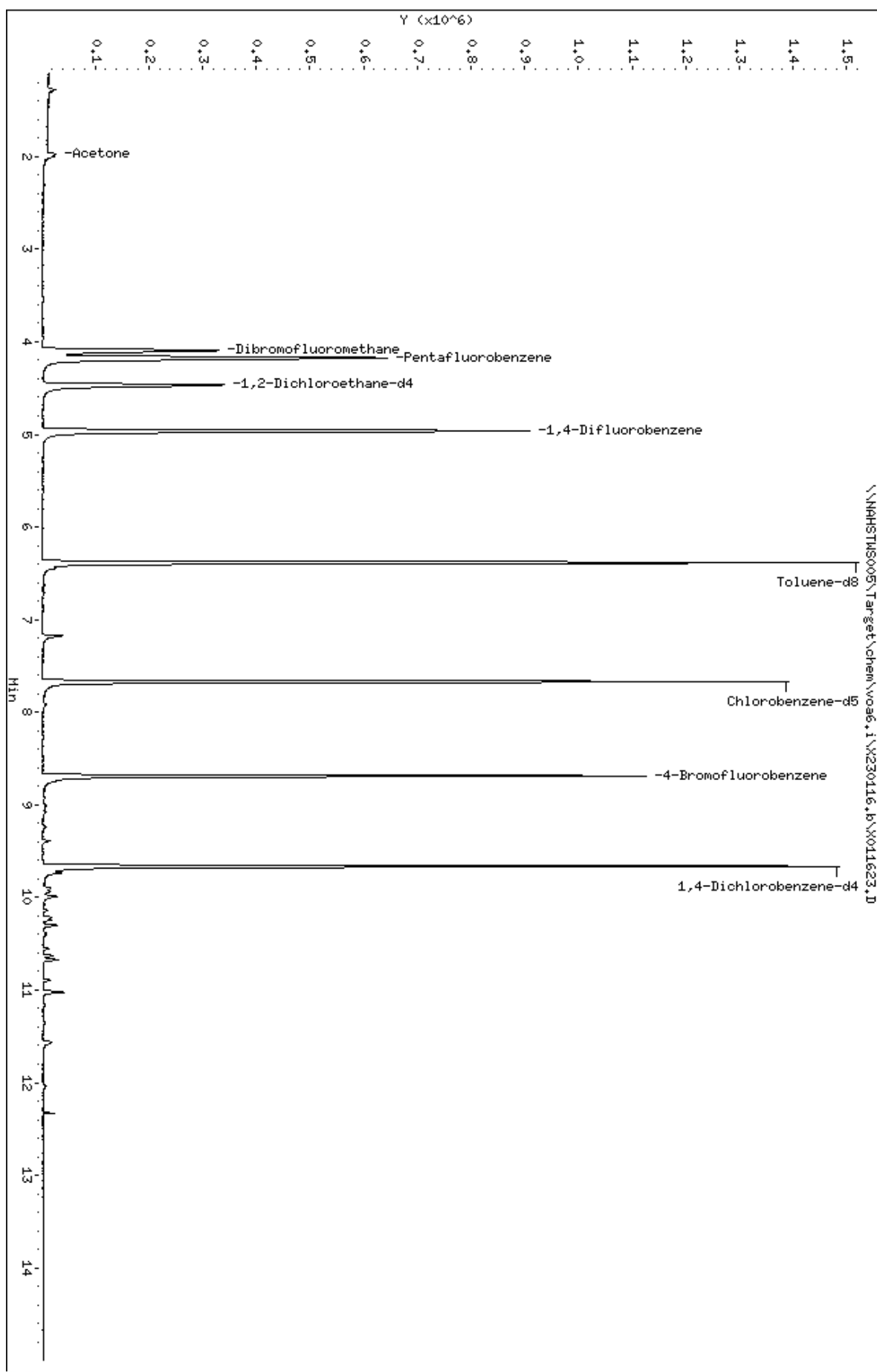
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011623.D

Page 2

Date : 16-JAN-2023 18:12

Client ID: HS23010587-05

Instrument: voa6.i

Sample Info: HS23010587-05;HS23010587-05;;;

Purge Volume: 5.0

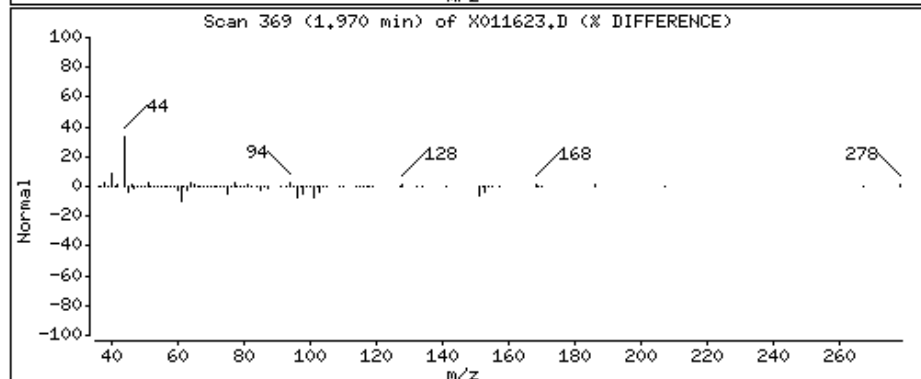
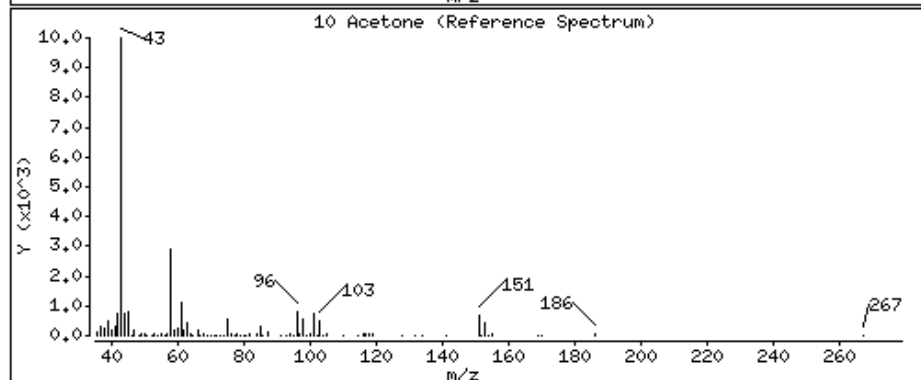
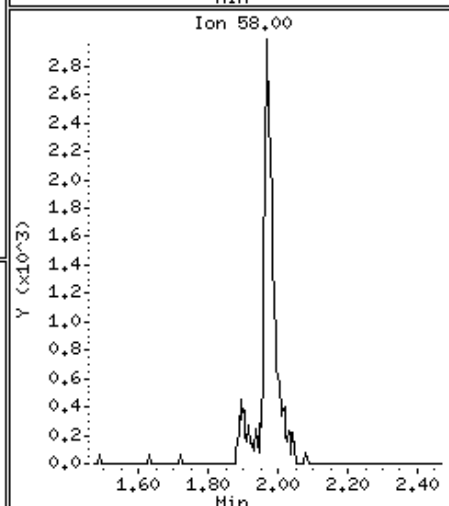
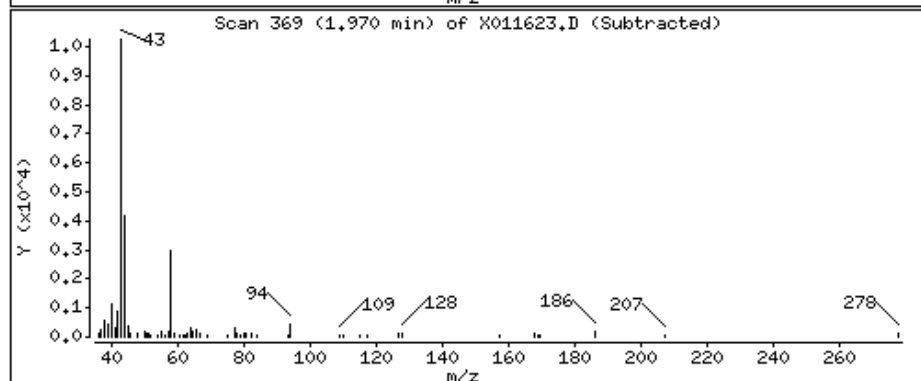
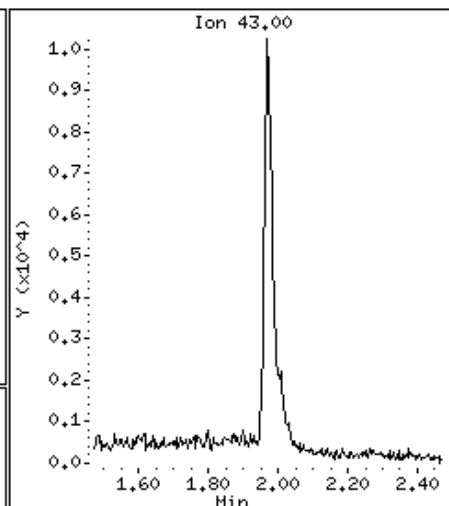
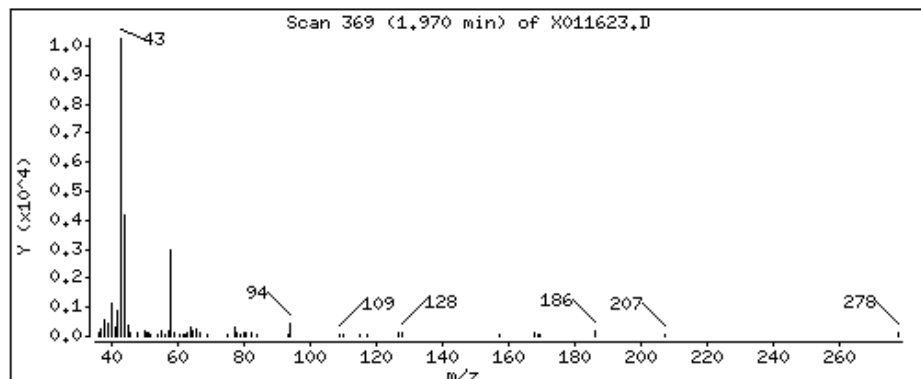
Operator: PC

Column phase: DB624

Column diameter: 0.18

10 Acetone

Concentration: 13.10 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011623.D
Inj Date : 16-JAN-2023 18:12
InstruID : voa6.i
LabSampID : HS23010587-05

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011631.D Page 1
 Report Date: 25-Jan-2023 09:58

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011631.D
 Lab Smp Id: CCV-END Client Smp ID: CCV-END
 Inj Date : 16-JAN-2023 21:01
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV-END;CCV-END;2;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230116.b\8260W.m
 Meth Date : 25-Jan-2023 09:58 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 30 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)	442545	50.0000		
135 1,4-Dioxane	88		5.594	5.594	(1.339)	44381	1000.00	1097.09	
140 1,3-Butadiene	54		1.160	1.160	(0.278)	139674	50.0000	45.98	
25 Methacrylonitrile	41		3.814	3.814	(0.913)	167335	50.0000	53.40	
12 Isobutyl Alcohol	43		4.668	4.668	(1.118)	560484	1000.00	1125.99	
13 Acetonitrile	39		2.194	2.194	(0.525)	203940	500.000	506.34	
14 Allyl Chloride	41		2.194	2.194	(0.525)	383186	50.0000	49.95	
4 Propionitrile	54		3.645	3.645	(0.873)	239905	500.000	531.28	
72 trans-1,4-Dichloro-2-butene	53		8.886	8.886	(1.159)	73546	50.0000	52.57	
194 Acetaldehyde	44		1.208	1.208	(0.289)	83511	200.000	309.29	
23 Chloroprene	53		1.767	1.767	(0.423)	67773	50.0000	45.04(M)	
130 Ethyl Acetate	43		3.649	3.649	(0.873)	199413	50.0000	57.74	
40 Methyl Methacrylate	41		5.606	5.606	(1.342)	165113	50.0000	54.71	
49 Ethyl Methacrylate	69		6.708	6.708	(1.352)	174592	50.0000	54.39	
131 Methyl Acrylate	55		3.679	3.679	(0.881)	202875	50.0000	67.52	
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)	129684	50.0000	41.96	
3 Chloromethane	50		1.074	1.074	(0.257)	185861	50.0000	46.57	
5 Vinyl Chloride	62		1.141	1.141	(0.273)	189328	50.0000	48.97	
6 Bromomethane	94		1.336	1.336	(0.320)	141819	50.0000	48.55	
7 Chloroethane	64		1.400	1.400	(0.335)	126231	50.0000	46.91	



8 Trichlorofluoromethane	101	1.557	1.557 (0.373)	269578	50.0000	49.83
9 Acrolein	56	1.441	1.441 (0.345)	24518	100.000	81.54

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011631.D Page 2
 Report Date: 25-Jan-2023 09:58

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
10 Acetone	43	1.966	1.966	(0.471)	136583	100.000	109.99
11 1,1-Dichloroethene	96	1.909	1.909	(0.457)	166559	50.0000	49.59
15 Iodomethane	142	2.022	2.022	(0.484)	423593	100.000	95.99
16 Acrylonitrile	53	2.528	2.528	(0.605)	124833	100.000	109.58
17 Methylene Chloride	84	2.299	2.299	(0.550)	214418	50.0000	46.54
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	547841	50.0000	49.83
19 Carbon Disulfide	76	2.067	2.067	(0.495)	852978	100.000	97.06
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	183065	50.0000	48.70
21 Vinyl Acetate	43	2.993	2.993	(0.716)	807920	100.000	83.71
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	321849	50.0000	48.78
24 2-Butanone	43	3.570	3.570	(0.855)	142874	100.000	108.21
26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	252113	50.0000	45.00
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	218658	50.0000	47.79
28 Chloroform	83	3.904	3.904	(0.934)	364954	50.0000	49.35
29 Bromochloromethane	128	3.788	3.788	(0.907)	116592	50.0000	46.54
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	211959	50.0000	49.88
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	293215	50.0000	49.98
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	249031	50.0000	51.45
33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	287309	50.0000	51.44
34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	241574	50.0000	46.74
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	236642	50.0000	52.74
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	681652	50.0000	
37 Benzene	78	4.507	4.507	(0.909)	801553	50.0000	49.24
38 Trichloroethene	130	5.205	5.205	(1.049)	240183	50.0000	52.02
39 Bromodichloromethane	83	5.726	5.726	(1.154)	293305	50.0000	48.01
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	205410	100.000	118.19
42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	210411	50.0000	48.59
44 Dibromomethane	93	5.549	5.549	(1.119)	143338	50.0000	48.70
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	380797	100.000	109.93
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	355891	50.0000	49.60
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	648039	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	797478	50.0000	49.80
50 Toluene	91	6.445	6.445	(0.841)	871128	50.0000	48.63
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	304710	50.0000	51.17
52 2-Hexanone	43	7.086	7.086	(0.924)	266603	100.000	113.12
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	176497	50.0000	49.11
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	350866	50.0000	49.60
55 Dibromochloromethane	129	7.176	7.176	(0.936)	256347	50.0000	49.42
56 Tetrachloroethene	164	6.925	6.925	(0.903)	176203	50.0000	47.54
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	228878	50.0000	50.94
58 1-Chlorohexane	55	7.694	7.694	(1.551)	150690	50.0000	45.74
59 Chlorobenzene	112	7.694	7.694	(1.003)	602281	50.0000	47.40
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	233588	50.0000	49.40
61 Ethylbenzene	106	7.799	7.799	(1.017)	291129	50.0000	48.64
62 m,p-Xylenes	106	7.904	7.904	(1.031)	745518	100.000	96.63
63 o-Xylene	106	8.241	8.241	(1.075)	366172	50.0000	48.08
64 Styrene	104	8.260	8.260	(1.077)	648027	50.0000	50.77
66 Bromoform	173	8.410	8.410	(1.097)	181786	50.0000	50.59
67 Isopropylbenzene	105	8.560	8.560	(1.116)	858839	50.0000	49.36
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	275084	50.0000	46.02
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	304569	50.0000	50.88
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	375009	50.0000	



71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	232603	50.0000	55.74
73 n-Propylbenzene	91	8.912	8.912 (0.922)	1012827	50.0000	48.75

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230116.b\X011631.D Page 3
 Report Date: 25-Jan-2023 09:58

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
74 Bromobenzene	156	8.803	8.803	(0.911)	291173	50.0000	47.32
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	762079	50.0000	49.66
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	652377	50.0000	47.86
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	769471	50.0000	49.51
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	608055	50.0000	48.40
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	783651	50.0000	48.53
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	824519	50.0000	49.33
82 p-Isopropyltoluene	119	9.650	9.650	(0.999)	749205	50.0000	50.02
83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	496245	50.0000	48.59
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	535274	50.0000	48.03
87 n-Butylbenzene	91	9.995	9.995	(1.035)	654211	50.0000	45.49
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	507333	50.0000	48.23
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48939	50.0000	51.21
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	337745	50.0000	50.88
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	125000	50.0000	42.56
92 Naphthalene	128	11.540	11.540	(1.194)	802514	50.0000	53.14
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	322564	50.0000	50.74
M 94 1,2-Dichloroethylene (total)	96				401723	100.000	(a)
141 Cyclohexane	56	4.121	4.121	(0.987)	209114	50.0000	46.95
138 Freon TF	101	1.913	1.913	(0.458)	148041	50.0000	45.57
147 Methylcyclohexane	55	5.377	5.377	(1.084)	441981	50.0000	52.97
146 Methyl Acetate	43	2.224	2.224	(0.533)	110651	50.0000	55.56
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	345891	1000.00	1128.76
149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	184721	1000.00	1154.26

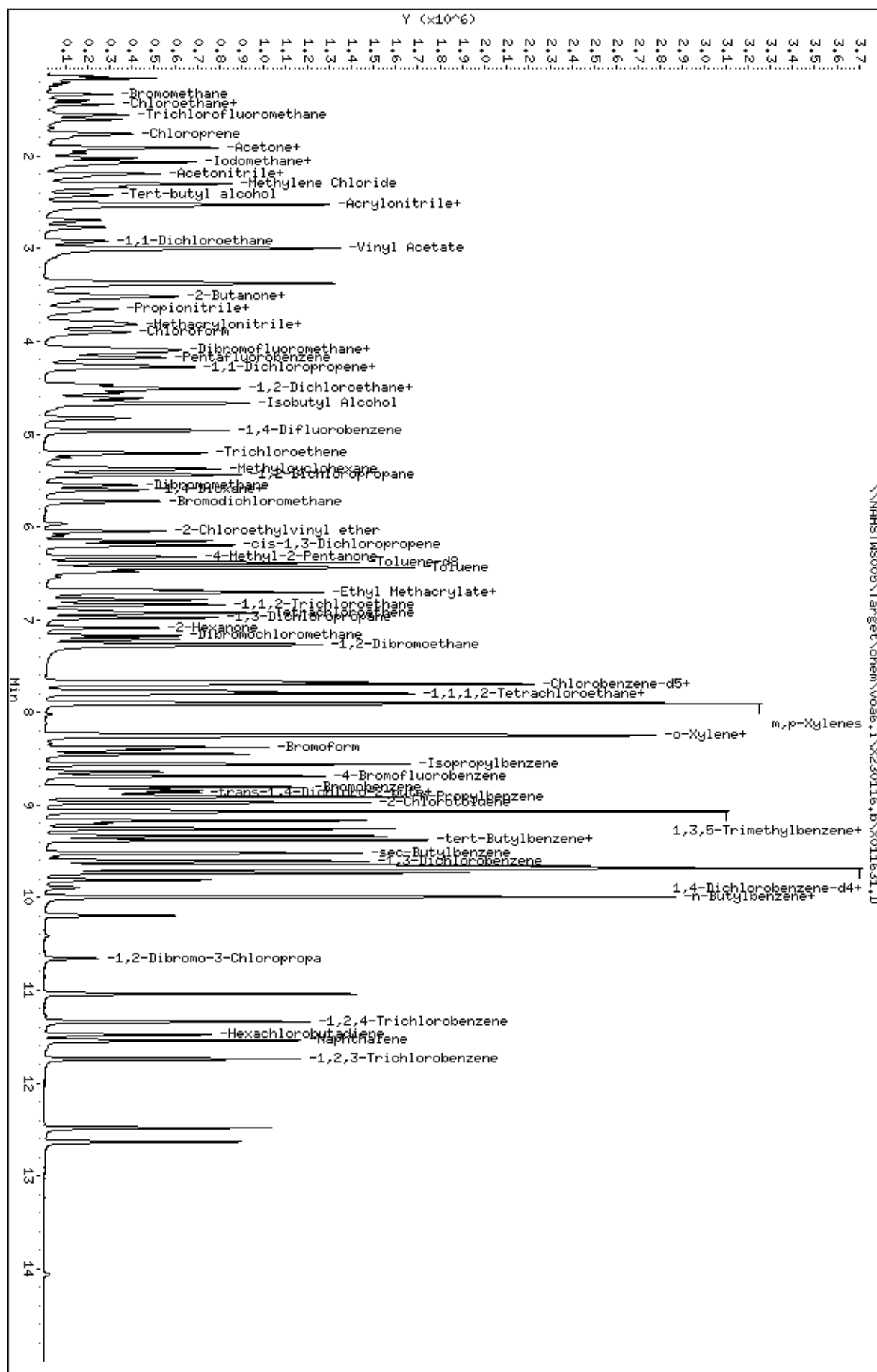
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230116.b\X011631.D
 Date: 16-JAN-2023 21:01
 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

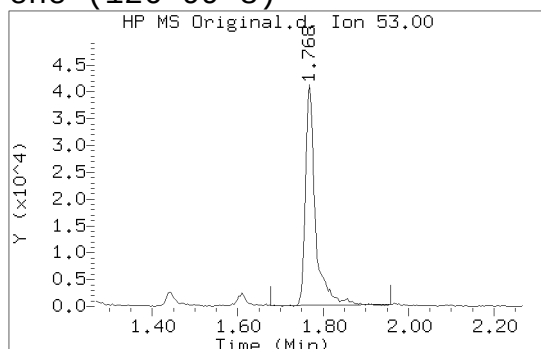


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X230116.b\\X011631.D
Inj Date : 16-JAN-2023 21:01
InstruID : voa6.i
LabSampID : CCV-END

Chloroprene (126-99-8)

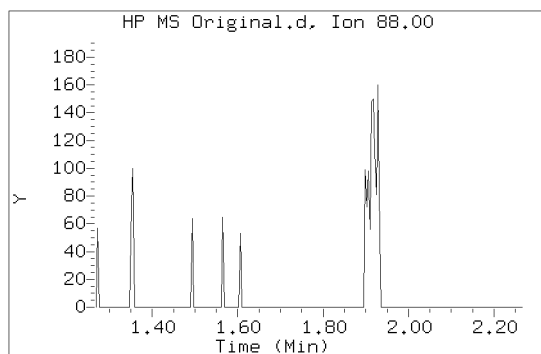
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67773
HEIGHT
41157
25-Jan-2023
09:57
linh



BEFORE

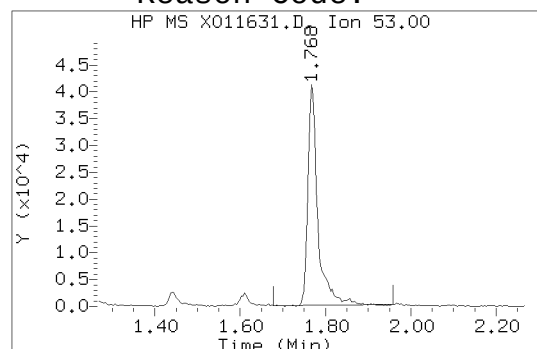
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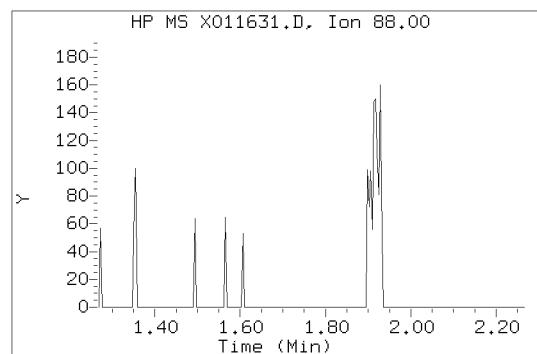
AFTER

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25-Jan-2023
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AFTER

MASS
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HEIGHT
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25-Jan-2023
09:57
linh
pham





Raw Data VOA6 425983

Volatiles by EPA 8260

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011701.D Page 1
 Report Date: 17-Jan-2023 11:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011701.D
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 17-JAN-2023 10:19
 Operator : PC Inst ID: voa6.i
 Smp Info : BFB;BFB;3;;BFB
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\bfb.m
 Meth Date : 01-Dec-2022 12:59 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	FINAL				
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
8.687	8.889	(0.000)	95	141824			0.00-	100.00	100.00
8.687	8.889	(0.000)	50	27392			15.00-	40.00	19.31
8.687	8.889	(0.000)	75	69360			30.00-	60.00	48.91
8.687	8.889	(0.000)	96	9208			5.00-	9.00	6.49
8.687	8.889	(0.000)	173	1022			0.00-	2.00	0.81
8.687	8.889	(0.000)	174	125816			50.00-	0.00	88.71
8.687	8.889	(0.000)	175	9437			5.00-	9.00	7.50
8.687	8.889	(0.000)	176	122544			95.00-	101.00	97.40
8.687	8.889	(0.000)	177	8671			5.00-	9.00	7.08



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.31
75	30.00 - 60.00% of mass 95	48.91
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.72 (0.81)
174	Greater than 50.00% of mass 95	88.71
175	5.00 - 9.00% of mass 174	6.65 (7.50)
176	95.00 - 101.00% of mass 174	86.41 (97.40)
177	5.00 - 9.00% of mass 176	6.11 (7.08)

Data File: X011701.D
 Spectrum: Scan 2160 (8.68)
 Location of Maximum: 95.00
 Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1437	65.90	71	96.00	9208	139.90	162
37.00	7212	67.00	391	97.00	230	140.90	1331
38.00	6896	68.00	14014	98.00	848	142.10	245
39.00	3445	69.00	14261	102.60	63	142.90	1494
39.80	922	70.00	1616	103.80	685	144.90	129
41.10	666	71.00	215	104.90	353	145.80	403
42.20	1288	71.90	753	105.80	705	146.90	98
42.90	715	73.00	6315	106.90	218	147.80	328
43.90	1994	74.00	24264	109.70	62	149.80	99
45.00	1378	75.00	69360	110.00	66	151.70	83
46.10	112	76.00	6177	111.00	128	152.80	157
47.00	1484	77.00	868	111.80	60	153.80	141
48.00	1070	78.00	515	113.10	144	154.70	400
49.00	5785	78.90	5842	114.80	181	156.70	305
50.00	27392	79.90	1641	115.90	431	158.70	200
51.00	9063	80.90	5062	116.80	1129	161.10	139
52.00	334	82.00	996	117.80	517	171.80	239
53.00	277	82.80	417	118.80	823	172.90	1022
53.90	108	84.90	65	119.80	50	173.90	125816
55.00	1437	85.80	187	121.90	65	174.90	9437
56.00	2641	87.00	5293	123.70	134	175.90	122544
57.10	4951	88.00	5922	126.80	63	176.90	8671
57.90	335	88.80	190	127.80	470	177.90	227
59.10	62	89.80	50	128.70	262	185.80	100
60.00	1245	90.80	582	129.80	649	262.10	54
61.00	6659	91.90	3762	130.80	211		
62.00	6628	93.00	5701	135.00	345		
63.00	5016	94.00	17224	137.00	132		
63.90	533	95.00	141824	138.70	62		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011701.D

Page 1

Date : 17-JAN-2023 10:19

Client ID: BFB

Instrument: voa6.i

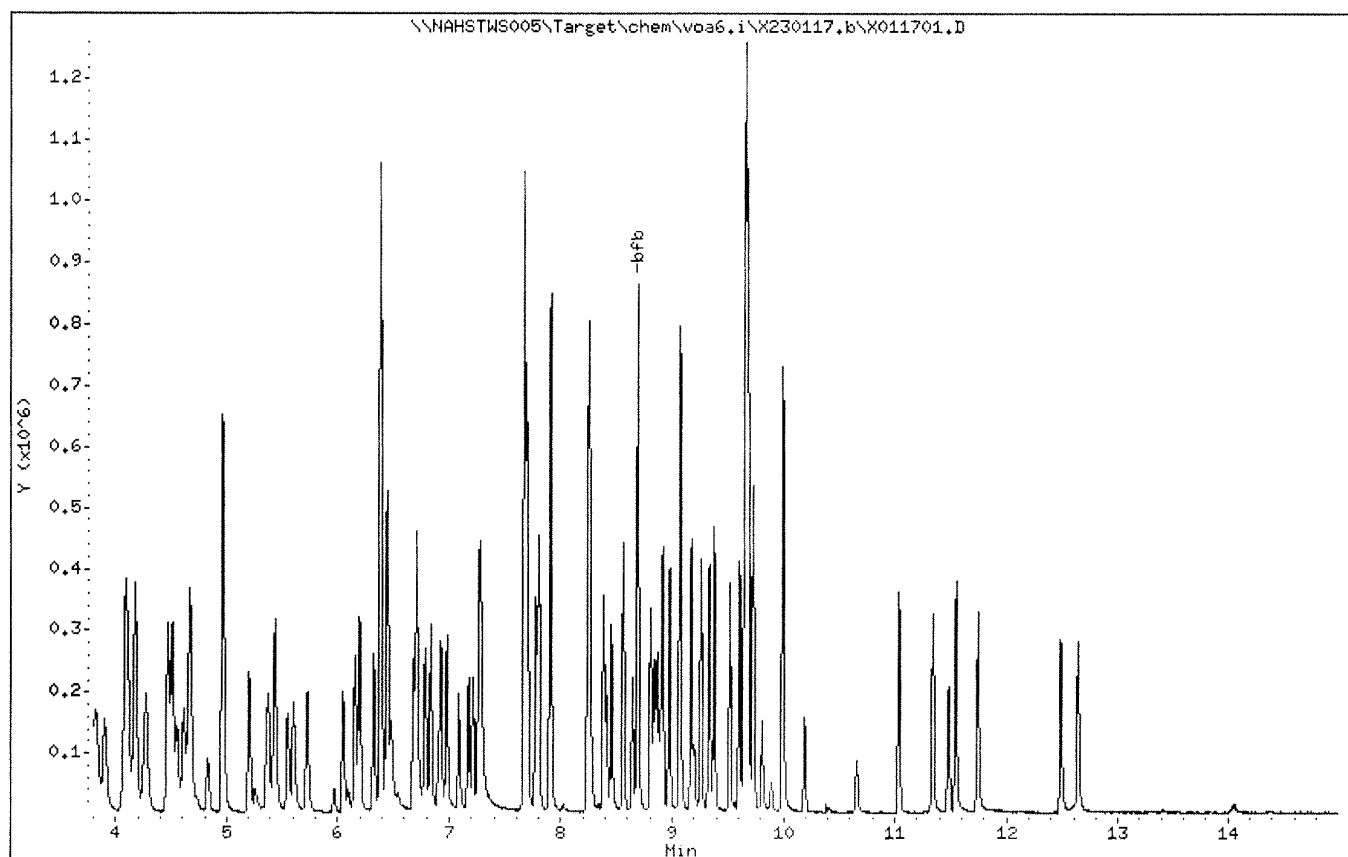
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011701.D

Page 2

Date : 17-JAN-2023 10:19

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

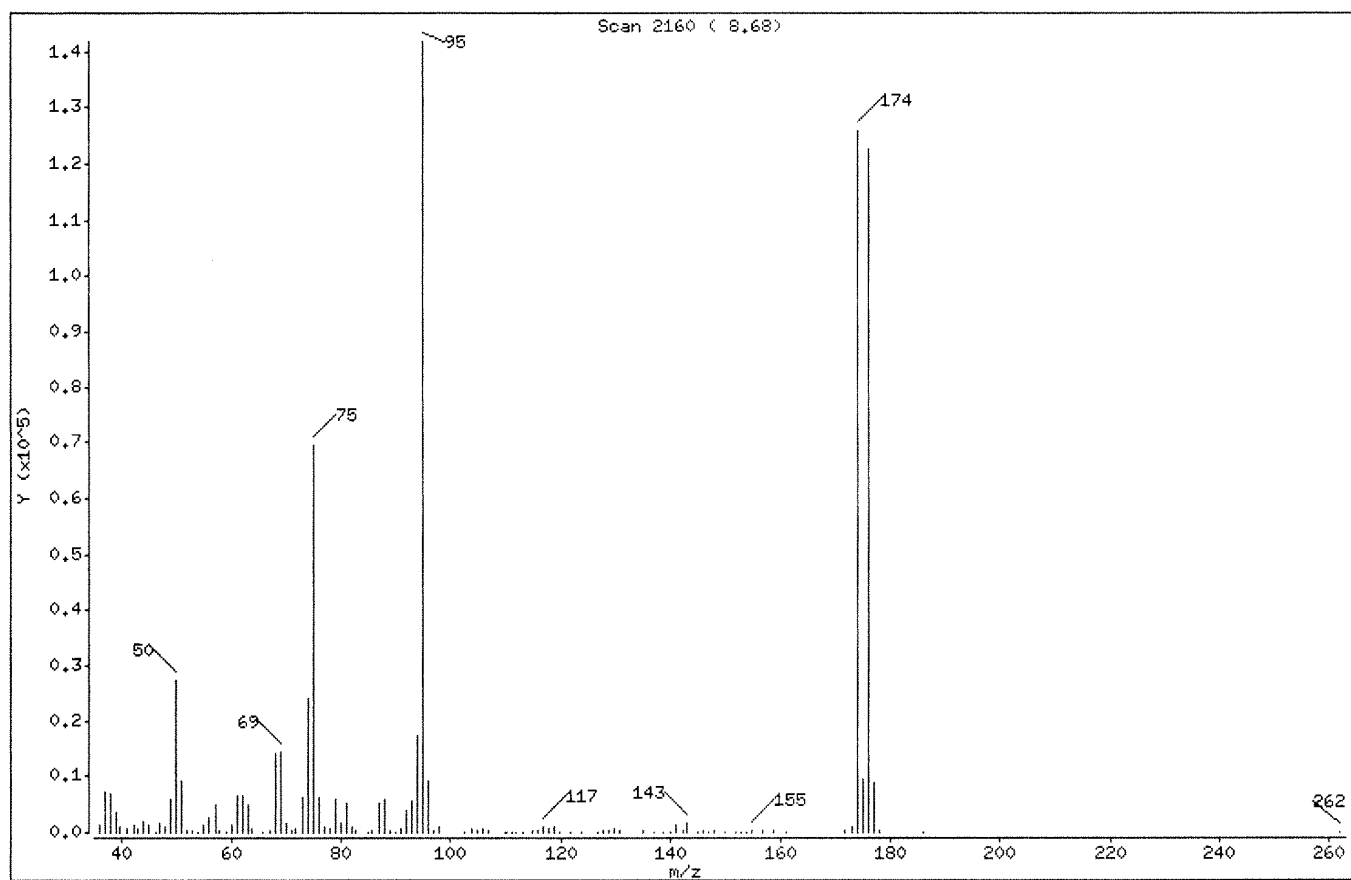
Volume Injected (uL): 2.0

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	19.31
75	30.00 - 60.00% of mass 95	48.91
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.72 (0.81)
174	Greater than 50.00% of mass 95	88.71
175	5.00 - 9.00% of mass 174	6.65 (7.50)
176	95.00 - 101.00% of mass 174	86.41 (97.40)
177	5.00 - 9.00% of mass 176	6.11 (7.08)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011701.D

Page 3

Date : 17-JAN-2023 10:19

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: X011701.D

Spectrum: Scan 2160 (8.68)

Location of Maximum: 95.00

Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	1437	65.90	71	96.00	9208	139.90	162
37.00	7212	67.00	391	97.00	230	140.90	1331
38.00	6896	68.00	14014	98.00	848	142.10	245
39.00	3445	69.00	14261	102.60	63	142.90	1494
39.80	922	70.00	1616	103.80	685	144.90	129

41.10	666	71.00	215	104.90	353	145.80	403
42.20	1288	71.90	753	105.80	705	146.90	98
42.90	715	73.00	6315	106.90	218	147.80	328
43.90	1994	74.00	24264	109.70	62	149.80	99
45.00	1378	75.00	69360	110.00	66	151.70	83

46.10	112	76.00	6177	111.00	128	152.80	157
47.00	1484	77.00	868	111.80	60	153.80	141
48.00	1070	78.00	515	113.10	144	154.70	400
49.00	5785	78.90	5842	114.80	181	156.70	305
50.00	27392	79.90	1641	115.90	431	158.70	200

51.00	9063	80.90	5062	116.80	1129	161.10	139
52.00	334	82.00	996	117.80	517	171.80	239
53.00	277	82.80	417	118.80	823	172.90	1022
53.90	108	84.90	65	119.80	50	173.90	125816
55.00	1437	85.80	187	121.90	65	174.90	9437

56.00	2641	87.00	5293	123.70	134	175.90	122544
57.10	4951	88.00	5922	126.80	63	176.90	8671
57.90	335	88.80	190	127.80	470	177.90	227
59.10	62	89.80	50	128.70	262	185.80	100
60.00	1245	90.80	582	129.80	649	262.10	54

61.00	6659	91.90	3762	130.80	211		
62.00	6628	93.00	5701	135.00	345		
63.00	5016	94.00	17224	137.00	132		
63.90	533	95.00	141824	138.70	62		



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011702.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011702.D
 Lab Smp Id: CCV Client Smp ID: CCV
 Inj Date : 17-JAN-2023 10:40
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV;CCV;2;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 25-Jan-2023 10:03 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		476097	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		45801	1000.00	1052.40
140 1,3-Butadiene	54		1.160	1.160	(0.278)		153958	50.0000	47.11
25 Methacrylonitrile	41		3.818	3.818	(0.914)		173348	50.0000	51.42
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		586588	1000.00	1095.39
13 Acetonitrile	39		2.194	2.194	(0.525)		232719	500.000	537.07
14 Allyl Chloride	41		2.194	2.194	(0.525)		422308	50.0000	51.17
4 Propionitrile	54		3.645	3.645	(0.873)		252383	500.000	519.53
72 trans-1,4-Dichloro-2-butene	53		8.886	8.886	(1.159)		79822	50.0000	54.03
194 Acetaldehyde	44		1.209	1.209	(0.289)		68459	200.000	230.13
23 Chloroprene	53		1.767	1.767	(0.423)		73622	50.0000	45.47(M)
130 Ethyl Acetate	43		3.649	3.649	(0.873)		196550	50.0000	52.90
40 Methyl Methacrylate	41		5.602	5.602	(1.341)		176099	50.0000	54.24
49 Ethyl Methacrylate	69		6.708	6.708	(1.351)		173391	50.0000	51.82
131 Methyl Acrylate	55		3.683	3.683	(0.882)		215859	50.0000	66.78
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		144981	50.0000	43.59
3 Chloromethane	50		1.074	1.074	(0.257)		192115	50.0000	44.83
5 Vinyl Chloride	62		1.141	1.141	(0.273)		198553	50.0000	47.74
6 Bromomethane	94		1.336	1.336	(0.320)		147611	50.0000	47.03
7 Chloroethane	64		1.400	1.400	(0.335)		131691	50.0000	45.49



8 Trichlorofluoromethane	101	1.557	1.557 (0.373)	293920	50.0000	50.50
9 Acrolein	56	1.445	1.445 (0.346)	32455	100.000	99.68

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011702.D Page 2
Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
10 Acetone	43	1.966	1.966	(0.471)	142094	100.000	106.36
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	174192	50.0000	48.20
15 Iodomethane	142	2.022	2.022	(0.484)	439267	100.000	92.78
16 Acrylonitrile	53	2.528	2.528	(0.605)	134361	100.000	109.63
17 Methylene Chloride	84	2.299	2.299	(0.550)	224060	50.0000	45.20
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	591025	50.0000	49.97
19 Carbon Disulfide	76	2.067	2.067	(0.495)	910413	100.000	96.30
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	190634	50.0000	47.13
21 Vinyl Acetate	43	2.993	2.993	(0.716)	1141277	100.000	109.92
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	337306	50.0000	47.52
24 2-Butanone	43	3.574	3.574	(0.856)	153453	100.000	108.04
26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	304770	50.0000	50.57
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	228245	50.0000	46.37
28 Chloroform	83	3.900	3.900	(0.934)	381651	50.0000	47.97
29 Bromochloromethane	128	3.788	3.788	(0.907)	120593	50.0000	44.75
\$ 30 Dibromofluoromethane	113	4.091	4.091	(0.979)	222623	50.0000	48.69
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	310715	50.0000	49.23
32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	260335	50.0000	51.61
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	301697	50.0000	51.83
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	256214	50.0000	47.57
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	245162	50.0000	50.80
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	710415	50.0000	
37 Benzene	78	4.507	4.507	(0.908)	829365	50.0000	48.88
38 Trichloroethene	130	5.201	5.201	(1.048)	232947	50.0000	48.41
39 Bromodichloromethane	83	5.722	5.722	(1.153)	305540	50.0000	47.99
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	209429	100.000	115.62
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	219330	50.0000	48.60
44 Dibromomethane	93	5.549	5.549	(1.118)	147328	50.0000	48.03
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	383878	100.000	104.95
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	380742	50.0000	50.92
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	684320	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	826288	50.0000	48.86
50 Toluene	91	6.445	6.445	(0.841)	911910	50.0000	48.21
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	325374	50.0000	52.43
52 2-Hexanone	43	7.086	7.086	(0.924)	271333	100.000	109.03
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	179615	50.0000	47.33
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	362869	50.0000	48.58
55 Dibromochloromethane	129	7.176	7.176	(0.936)	265568	50.0000	48.49
56 Tetrachloroethene	164	6.929	6.929	(0.904)	185251	50.0000	47.33
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	236179	50.0000	49.78
58 1-Chlorohexane	55	7.694	7.694	(1.550)	167563	50.0000	48.80
59 Chlorobenzene	112	7.694	7.694	(1.003)	631105	50.0000	47.04
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	241019	50.0000	48.27
61 Ethylbenzene	106	7.799	7.799	(1.017)	305625	50.0000	48.36
62 m,p-Xylenes	106	7.904	7.904	(1.031)	783899	100.000	96.22
63 o-Xylene	106	8.241	8.241	(1.075)	385806	50.0000	47.98
64 Styrene	104	8.256	8.256	(1.077)	682298	50.0000	50.62
66 Bromoform	173	8.410	8.410	(1.097)	188163	50.0000	49.59
67 Isopropylbenzene	105	8.560	8.560	(1.116)	898356	50.0000	48.90
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	299486	50.0000	46.77
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	319306	50.0000	50.51
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	401720	50.0000	



71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	223067	50.0000	49.90(M)
73 n-Propylbenzene	91	8.912	8.912 (0.922)	1062153	50.0000	47.73

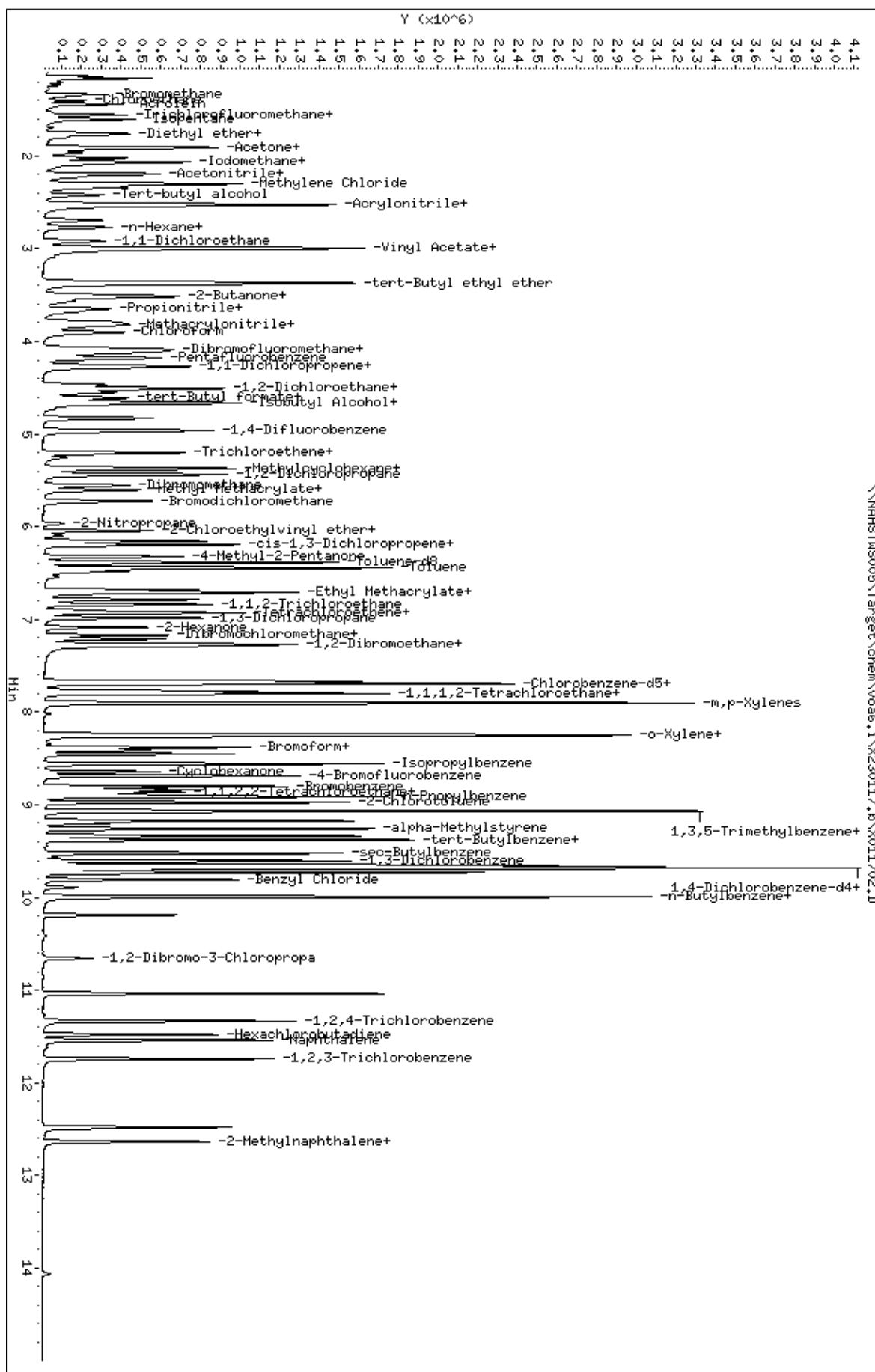
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011702.D Page 3
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
74 Bromobenzene	156	8.803	8.803	(0.911)	305711	50.0000	46.38
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	791463	50.0000	48.14
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	690184	50.0000	47.26
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	809227	50.0000	48.61
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	635285	50.0000	47.21
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	830871	50.0000	48.03
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	866123	50.0000	48.37
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	790156	50.0000	49.25
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	522452	50.0000	47.75
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	564180	50.0000	47.26
87 n-Butylbenzene	91	9.992	9.992	(1.034)	716659	50.0000	46.48
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	532216	50.0000	47.23
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	49450	50.0000	48.31
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	350147	50.0000	49.24
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	143948	50.0000	45.72
92 Naphthalene	128	11.540	11.540	(1.194)	798886	50.0000	49.38
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	319764	50.0000	46.95
M 94 1,2-Dichloroethylene (total)	96				418879	100.000	(a)
141 Cyclohexane	56	4.118	4.118	(0.986)	226875	50.0000	47.34
138 Freon TF	101	1.910	1.910	(0.457)	167159	50.0000	47.83
147 Methylcyclohexane	55	5.377	5.377	(1.083)	509950	50.0000	58.64
146 Methyl Acetate	43	2.228	2.228	(0.533)	113818	50.0000	53.12
148 Tert-Butyl alcohol	59	2.419	2.419	(0.579)	346352	1000.00	1050.61
149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	191078	1000.00	1109.84

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa6.i\X230117.p\X011702.D
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 Sample Info: CCV\CCV22;
 Purge Volume: 5.0
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Instrument: voa6.i
 Operator: PC
 Column diameter: 0.18

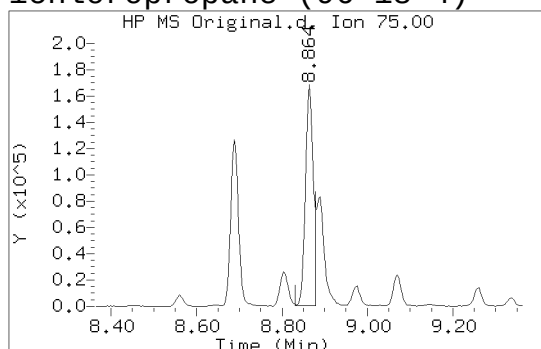


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Inj Date : 17-JAN-2023 10:40
InstruID : voa6.i
LabSampID : CCV

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

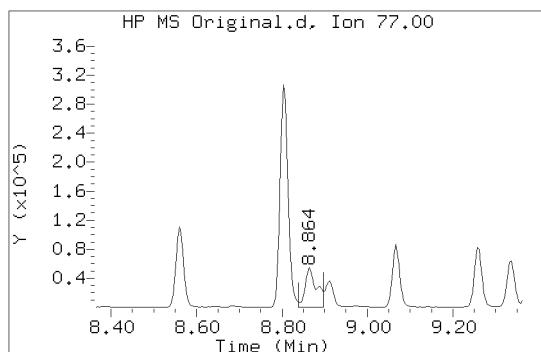
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HEIGHT
168310
25-Jan-2023
10:03
linh



BEFORE

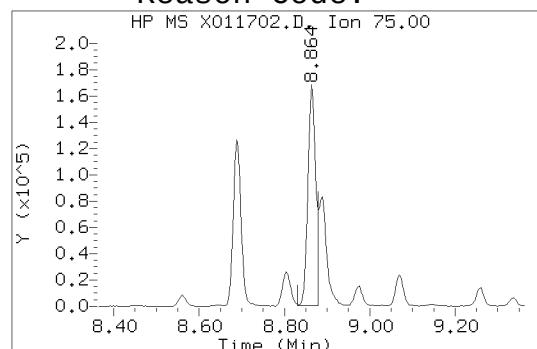
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10:03
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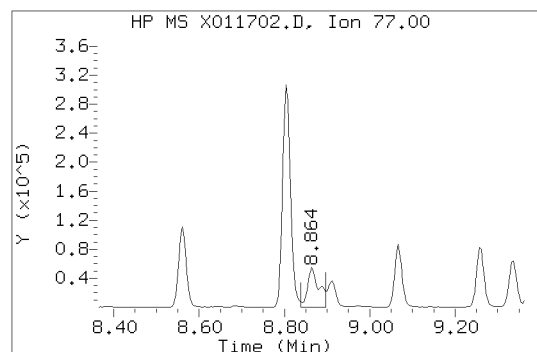
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Reason Code:



AFTER

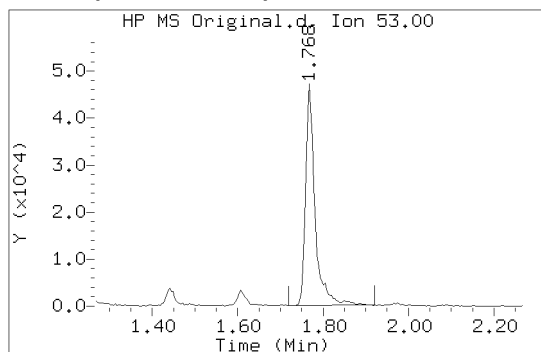
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10:03
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Chloroprene (126-99-8)

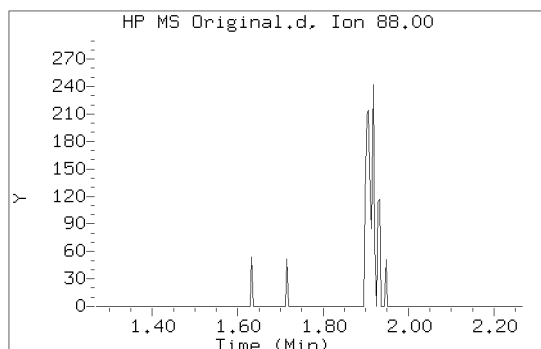
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25-Jan-2023
10:03
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BEFORE

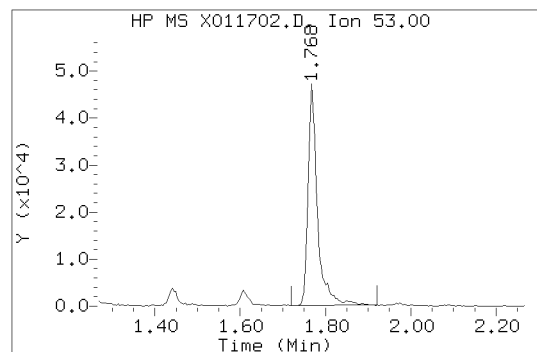
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25-Jan-2023
10:03
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AFTER

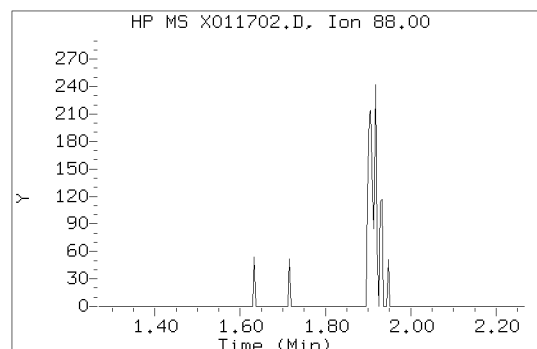
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Reason Code:



AFTER

MASS
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25-Jan-2023
10:03
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011704.D Page 1
 Report Date: 17-Jan-2023 20:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011704.D
 Lab Smp Id: CCB Client Smp ID: CCB
 Inj Date : 17-JAN-2023 11:22
 Operator : PC Inst ID: voa6.i
 Smp Info : CCB;CCB;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 17-Jan-2023 20:34 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177 (1.000)	558855	50.0000		
\$ 30 Dibromofluoromethane	113	4.095	4.091 (0.980)	240904	44.8766	44.87	
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466 (1.069)	269132	47.5310	47.53	
* 36 1,4-Difluorobenzene	114	4.965	4.965 (1.000)	779396	50.0000		
* 47 Chlorobenzene-d5	117	7.668	7.667 (1.000)	696003	50.0000		
\$ 48 Toluene-d8	98	6.385	6.385 (0.833)	906695	52.7187	52.71	
\$ 69 4-Bromofluorobenzene	95	8.691	8.687 (1.133)	310135	48.2450	48.24	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	352793	50.0000		



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011707.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011707.D
 Lab Smp Id: VBLKW-230117 Client Smp ID: VBLKW-230117
 Inj Date : 17-JAN-2023 12:25
 Operator : PC Inst ID: voa6.i
 Smp Info : VBLKW-230117;VBLKW-230117;3;;BLANK
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 25-Jan-2023 10:03 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	540552	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.091	(0.980)	237352	45.7151	45.71
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	263298	48.0721	48.07
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	765436	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.667	(1.000)	667545	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.832)	883007	53.5301	53.53
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	299730	48.6136	48.61
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	339871	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230117.b\X011707.D

Date: 17-JAN-2023 12:25

Client ID: VBLKM-230117

Sample Info: VBLKM-230117;VBLKM-230117;3;BLANK

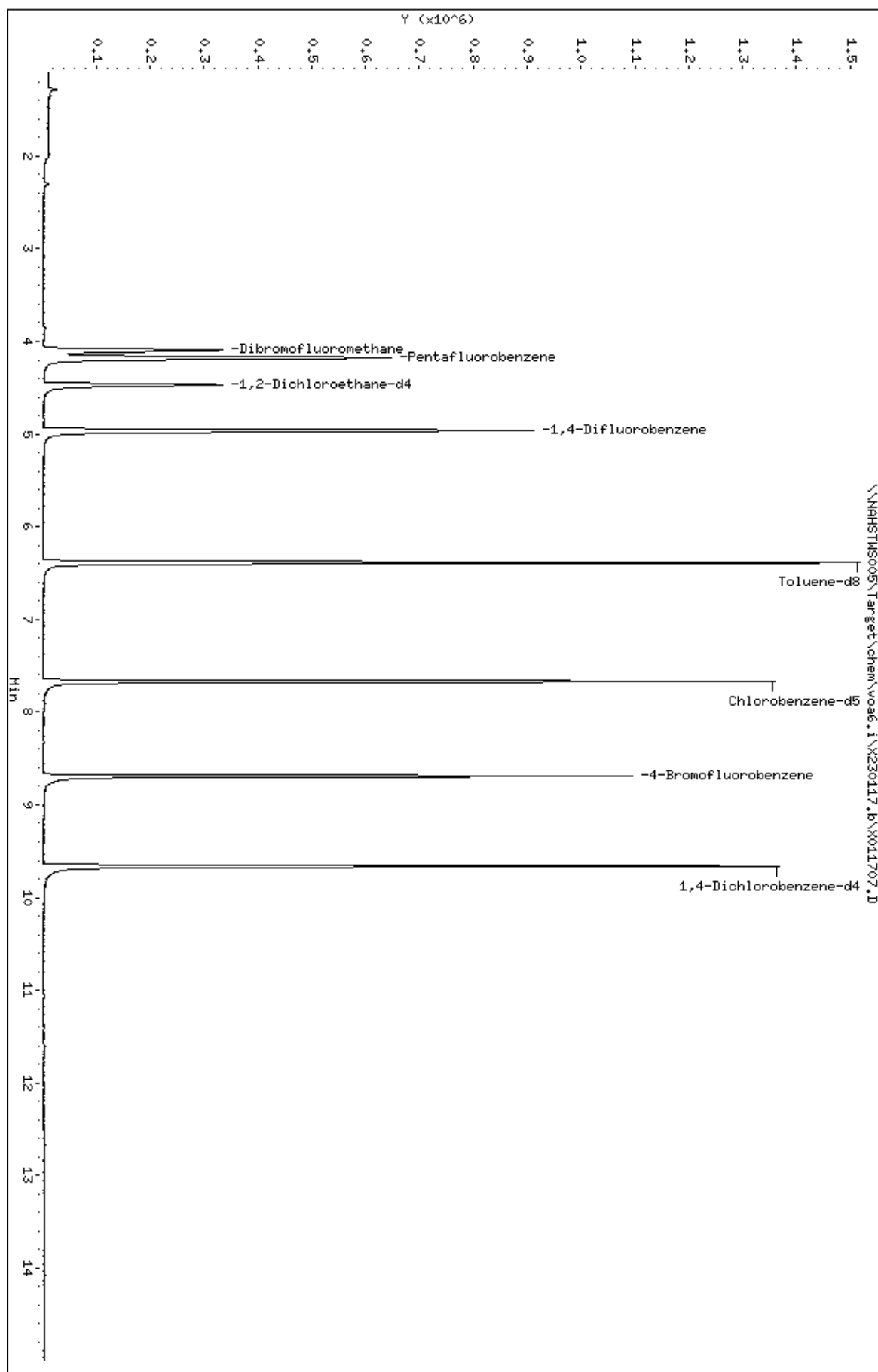
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011707.D
Inj Date : 17-JAN-2023 12:25
InstruID : voa6.i
LabSampID : VBLKW-230117

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011708.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011708.D
 Lab Smp Id: VLCSW-230117 Client Smp ID: VLCSW-230117
 Inj Date : 17-JAN-2023 12:46
 Operator : PC Inst ID: voa6.i
 Smp Info : VLCSW-230117;VLCSW-230117;3;;LCS
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 25-Jan-2023 10:03 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.177	(1.000)	469497	50.0000	
135 1,4-Dioxane	88	5.595	5.598	(1.340)	21252	495.189	495.18(a)
140 1,3-Butadiene	54	1.160	1.160	(0.278)	69584	21.5949	21.59
25 Methacrylonitrile	41	3.818	3.818	(0.915)	76862	23.1203	23.12
12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	243368	460.854	460.85
13 Acetonitrile	39	2.195	2.194	(0.526)	95573	223.667	223.66
14 Allyl Chloride	41	2.195	2.194	(0.526)	175187	21.5264	21.52
4 Propionitrile	54	3.649	3.645	(0.874)	105053	219.292	219.29(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	33285	23.5709	23.57
23 Chloroprene	53	1.767	1.767	(0.423)	33542	21.0117	21.01(M)
130 Ethyl Acetate	43	3.653	3.649	(0.875)	85479	23.3322	23.33
40 Methyl Methacrylate	41	5.606	5.602	(1.343)	70990	22.1755	22.17
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	85328	26.1939	26.19
131 Methyl Acrylate	55	3.690	3.683	(0.884)	73922	23.1914	23.19
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	79848	24.5182	24.51
3 Chloromethane	50	1.074	1.074	(0.257)	94657	23.5096	23.50
5 Vinyl Chloride	62	1.141	1.141	(0.274)	93122	22.7054	22.70
6 Bromomethane	94	1.336	1.336	(0.320)	66859	22.5568	22.55
7 Chloroethane	64	1.400	1.400	(0.335)	58650	20.5455	20.54
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	135179	23.5530	23.55



9 Acrolein	56	1.441	1.445 (0.345)	12547	40.7955	40.79
10 Acetone	43	1.966	1.966 (0.471)	68263	51.8012	51.80(M)



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011708.D Page 2
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	78393	22.0003	22.00
15 Iodomethane	142	2.022	2.022	(0.485)	180980	41.5283	41.52
16 Acrylonitrile	53	2.536	2.528	(0.608)	54712	45.2719	45.27
17 Methylene Chloride	84	2.300	2.299	(0.551)	99445	20.3462	20.34
18 Methyl tert-butyl ether	73	2.532	2.528	(0.607)	245720	21.0678	21.06
19 Carbon Disulfide	76	2.067	2.067	(0.495)	400608	42.9707	42.97
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	84729	21.2463	21.24
21 Vinyl Acetate	43	2.997	2.993	(0.718)	478229	46.7090	46.70
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	143493	20.5022	20.50
24 2-Butanone	43	3.574	3.574	(0.856)	66273	49.0182	49.01
26 2,2-Dichloropropane	77	3.507	3.506	(0.840)	131542	22.1359	22.13
27 cis-1,2-Dichloroethene	96	3.525	3.521	(0.845)	95412	19.6593	19.65
28 Chloroform	83	3.904	3.900	(0.935)	159597	20.3451	20.34
29 Bromochloromethane	128	3.792	3.788	(0.908)	51065	19.2171	19.21
\$ 30 Dibromofluoromethane	113	4.091	4.091	(0.980)	216286	47.9705	47.97
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.977)	136121	21.8707	21.87
32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	115217	23.4603	23.46
33 1,2-Dichloroethane	62	4.553	4.552	(0.918)	126774	22.3673	22.36
34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	114035	21.7441	21.74
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	250072	52.5419	52.54
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	691761	50.0000	
37 Benzene	78	4.508	4.507	(0.909)	353346	21.3902	21.39
38 Trichloroethene	130	5.205	5.201	(1.049)	101713	21.7088	21.70
39 Bromodichloromethane	83	5.726	5.722	(1.154)	125218	20.1981	20.19
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	99485	56.4061	56.40
42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	90926	20.6924	20.69
44 Dibromomethane	93	5.553	5.549	(1.119)	62088	20.7880	20.78
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	177664	50.8139	50.81
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	152479	20.9426	20.94
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	654137	50.0000	
\$ 48 Toluene-d8	98	6.386	6.385	(0.833)	808378	50.0104	50.01
50 Toluene	91	6.446	6.445	(0.841)	389580	21.5469	21.54
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.347)	131849	21.8213	21.82
52 2-Hexanone	43	7.087	7.086	(0.924)	125309	52.6772	52.67
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	77113	21.2592	21.25
54 1,3-Dichloropropane	76	6.982	6.981	(0.911)	152064	21.2986	21.29
55 Dibromochloromethane	129	7.173	7.176	(0.935)	108261	20.6796	20.67
56 Tetrachloroethene	164	6.925	6.929	(0.903)	83708	22.3762	22.37
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	99357	21.9082	21.90
58 1-Chlorohexane	55	7.694	7.694	(1.551)	80780	24.1635	24.16
59 Chlorobenzene	112	7.694	7.694	(1.003)	267210	20.8360	20.83
60 1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	97688	20.4686	20.46
61 Ethylbenzene	106	7.799	7.799	(1.017)	133942	22.1722	22.17
62 m,p-Xylenes	106	7.904	7.904	(1.031)	336840	43.2539	43.25
63 o-Xylene	106	8.241	8.241	(1.075)	161344	20.9914	20.99
64 Styrene	104	8.260	8.256	(1.077)	280142	21.7451	21.74
66 Bromoform	173	8.410	8.410	(1.097)	74793	20.6221	20.62
67 Isopropylbenzene	105	8.560	8.560	(1.116)	404721	23.0477	23.04
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	127654	21.4688	21.46
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	305395	50.5451	50.54
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	373059	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	93992	22.6428	22.64(M)



73 n-Propylbenzene	91	8.912	8.912 (0.922)	481347	23.2938	23.29
74 Bromobenzene	156	8.803	8.803 (0.911)	123927	20.2475	20.24

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011708.D Page 3
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	347787	22.7829	22.78	
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	293974	21.6794	21.67	
77 4-Chlorotoluene	91	9.070	9.069	(0.939)	339538	21.9648	21.96	
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	293221	23.4659	23.46	
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	354029	22.0412	22.04	
81 sec-Butylbenzene	105	9.519	9.523	(0.985)	405029	24.3614	24.36	
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	363813	24.4196	24.41	
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	219385	21.5956	21.59	
84 1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	235210	21.2177	21.21	
87 n-Butylbenzene	91	9.992	9.992	(1.034)	326866	23.7321	23.73	
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	222373	21.2544	21.25	
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	22260	23.4652	23.46	
90 1,2,4-Trichlorobenzene	180	11.338	11.337	(1.173)	158093	23.9436	23.94	
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	74518	25.5890	25.58	
92 Naphthalene	128	11.544	11.540	(1.195)	367405	24.4564	24.45	
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	151216	23.9126	23.91	
M 94 1,2-Dichloroethylene (total)	96				180141	40.9056	40.90	
M 95 Xylenes (total)	106				498184	64.2452	64.24	
141 Cyclohexane	56	4.121	4.118	(0.987)	113512	24.6420	24.64	
138 Freon TF	101	1.913	1.910	(0.458)	79132	22.9608	22.96	
147 Methylcyclohexane	55	5.377	5.377	(1.084)	205463	24.2642	24.26	
146 Methyl Acetate	43	2.228	2.228	(0.534)	45262	21.4245	21.42	
148 Tert-Butyl alcohol	59	2.423	2.419	(0.581)	166846	513.222	513.22	
149 Isopropyl Alcohol	45	2.090	2.086	(0.501)	89648	528.024	528.02	

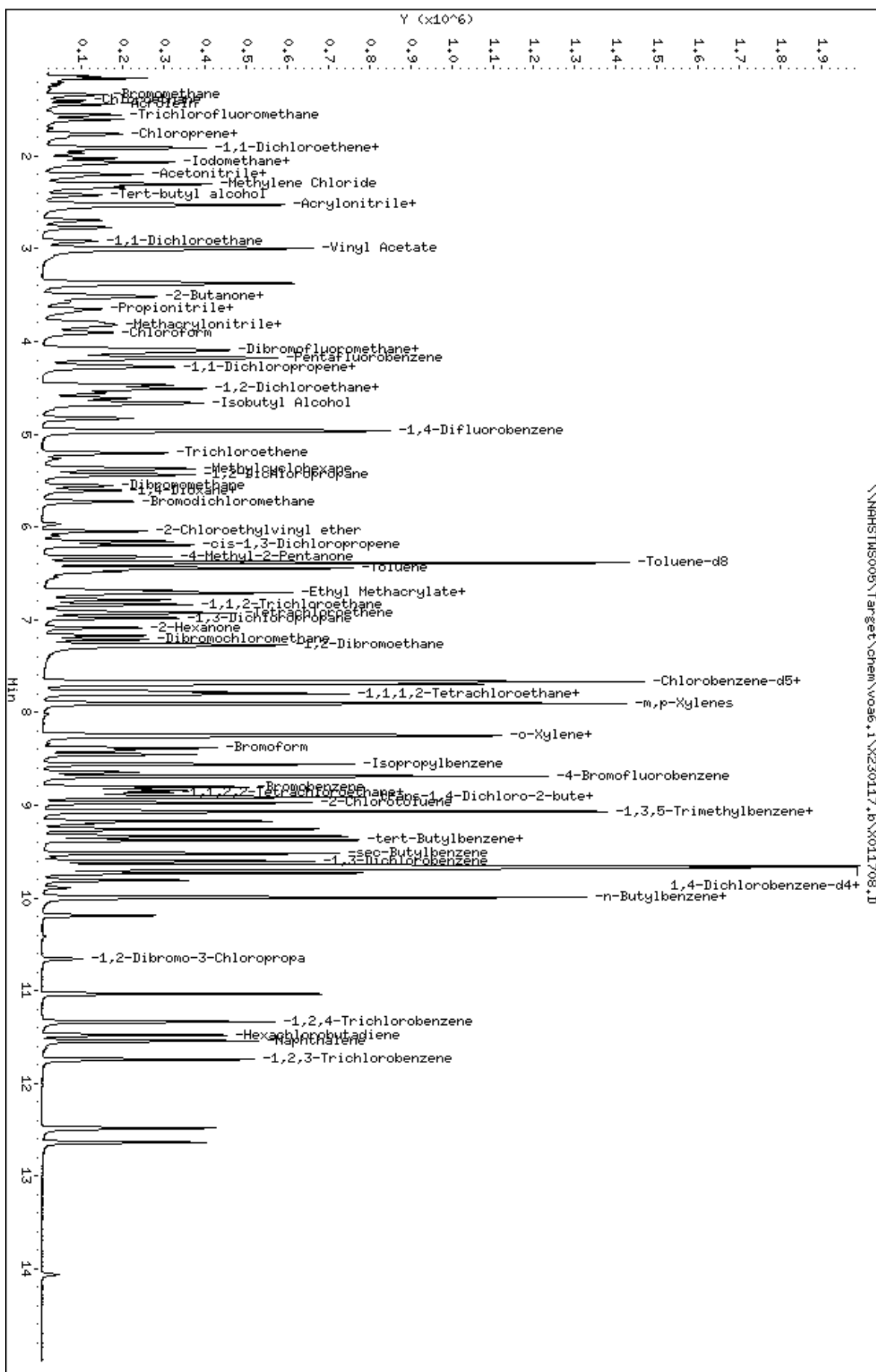
QC Flag Legend

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



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Data File: \\NAHSITMS005\Target\chem\voa6.1\X230117.b\X011708.D
Date : 17-JAN-2023 12:46
Client ID: WLC5M-230117
Sample Info: WLC5M-230117;WLC5M-230117;3;LCS
Purge Volume: 5.0
Column phase: DB624
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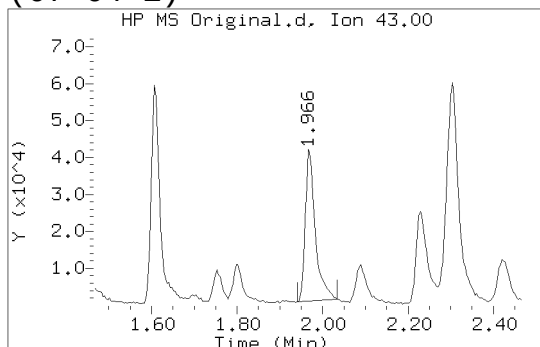
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Instrument: voa6.i
Operator: PC
Column diameter: 0.18
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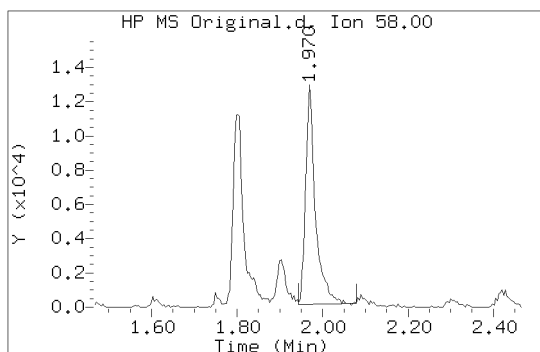
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Inj Date : 17-JAN-2023 12:46
InstruID : voa6.i
LabSampID : VLCSW-230117

Acetone (67-64-1)**BEFORE**

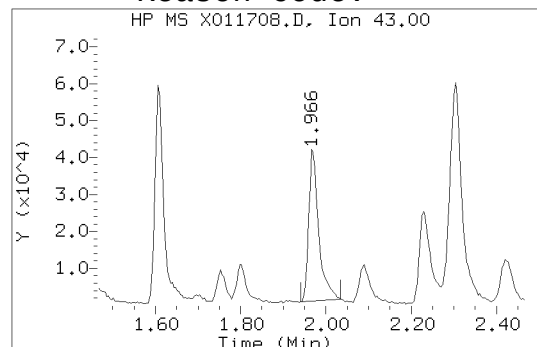
MASS
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AREA
68263
HEIGHT
41122
25-Jan-2023
10:03
linh

**BEFORE**

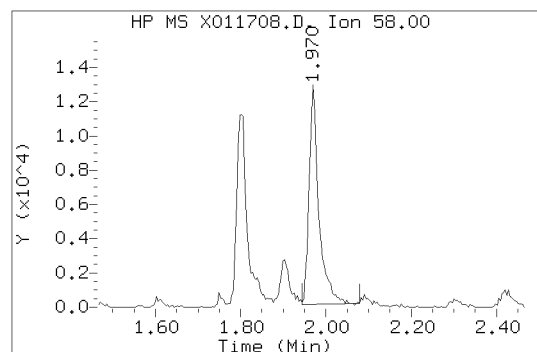
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25-Jan-2023
10:03
linh
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**Reason Code:****AFTER**

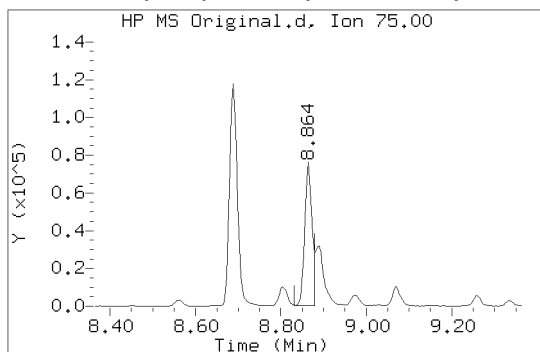
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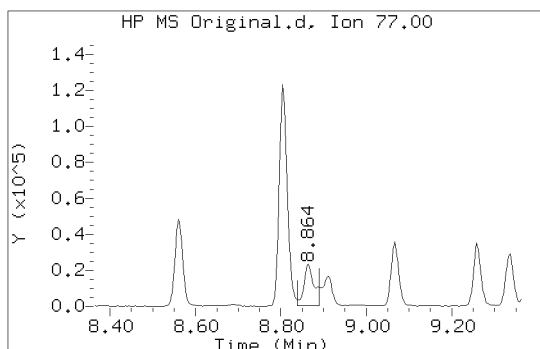
MASS
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20868
HEIGHT
12823
25-Jan-2023
10:03
linh
pham

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

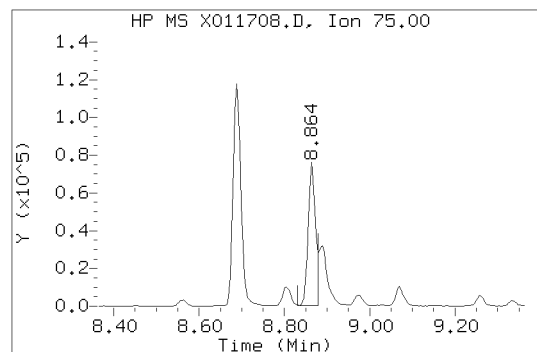
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25-Jan-2023
10:03
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**BEFORE**

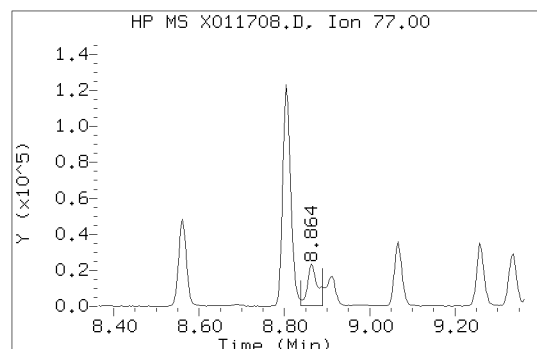
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23388
25-Jan-2023
10:03
linh
pham

**Reason Code:****AFTER**

MASS
75
AREA
93992
HEIGHT
75958
25-Jan-2023
10:03
linh
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**AFTER**

MASS
77
AREA
40514
HEIGHT
23388
25-Jan-2023
10:03
linh
pham

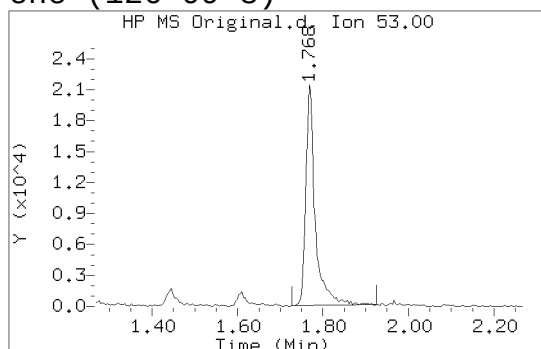


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Inj Date : 17-JAN-2023 12:46
InstruID : voa6.i
LabSampID : VLCSW-230117

Chloroprene (126-99-8)

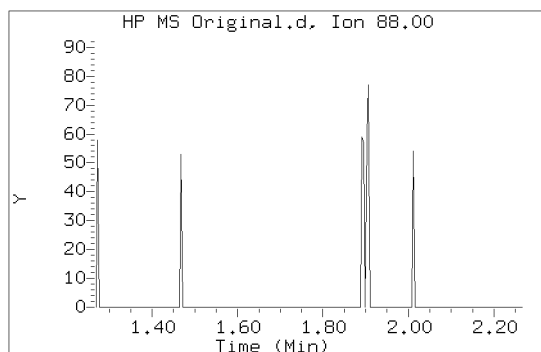
BEFORE

MASS
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AREA
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HEIGHT
21401
25-Jan-2023
10:03
linh
pham



BEFORE

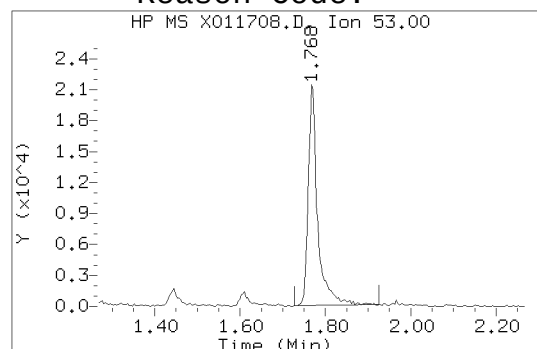
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25-Jan-2023
10:03
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pham



Reason Code:

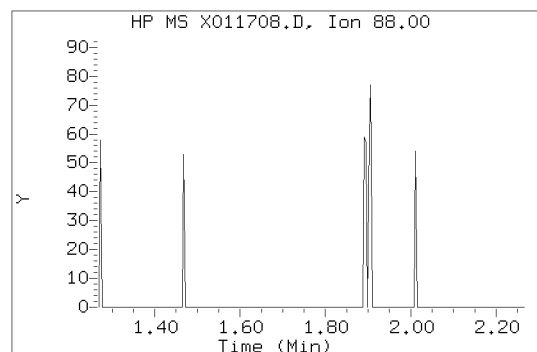
AFTER

MASS
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33542
HEIGHT
21401
25-Jan-2023
10:03
linh
pham



AFTER

MASS
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AREA
0
HEIGHT
0
25-Jan-2023
10:03
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011711.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011711.D
 Lab Smp Id: HS23010587-07 Client Smp ID: HS23010587-07
 Inj Date : 17-JAN-2023 13:49
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010587-07;HS23010587-07;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 25-Jan-2023 10:03 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	547701	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.091	(0.980)	238396	45.3154	45.31
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	260272	46.9060	46.90
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	762905	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	678412	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	885176	52.8021	52.80
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	300920	48.0256	48.02
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	348991	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230117.b\X011711.D

Page 1

Date: 17-JAN-2023 13:49

Client ID: HS23010587-07

Instrument: voa6.i

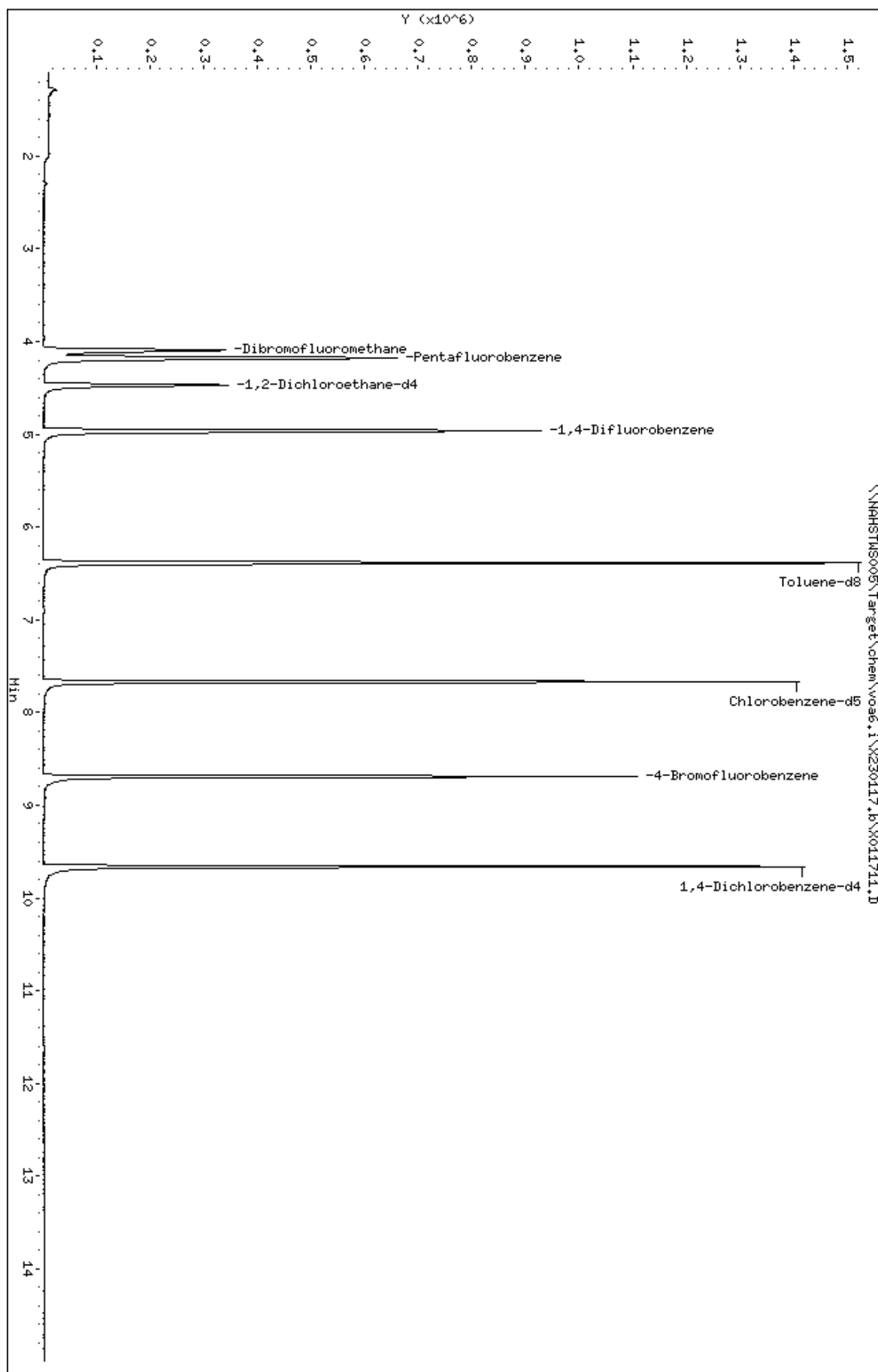
Sample Info: HS23010587-07;HS23010587-07;1

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011711.D
Inj Date : 17-JAN-2023 13:49
InstruID : voa6.i
LabSampID : HS23010587-07

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011712.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011712.D
 Lab Smp Id: HS23010587-06 Client Smp ID: HS23010587-06
 Inj Date : 17-JAN-2023 14:10
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010587-06;HS23010587-06;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 25-Jan-2023 10:03 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.177	(1.000)	539432	50.0000	
11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	20464	4.99847	4.99(a)
22 1,1-Dichloroethane	63	2.922	2.918	(0.700)	6505	0.80893	0.80(a)
\$ 30 Dibromofluoromethane	113	4.095	4.091	(0.981)	235660	45.4826	45.48
33 1,2-Dichloroethane	62	4.564	4.552	(0.920)	7930	1.28554	1.28(a)
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	260215	47.6105	47.61
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	752879	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	657592	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	871866	53.6547	53.65
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	291695	48.0272	48.02
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	325181	50.0000	

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230117.b\X011712.D

Date : 17-JAN-2023 14:10

Client ID: HS23010587-06

Sample Info: HS23010587-06;HS23010587-06;;;

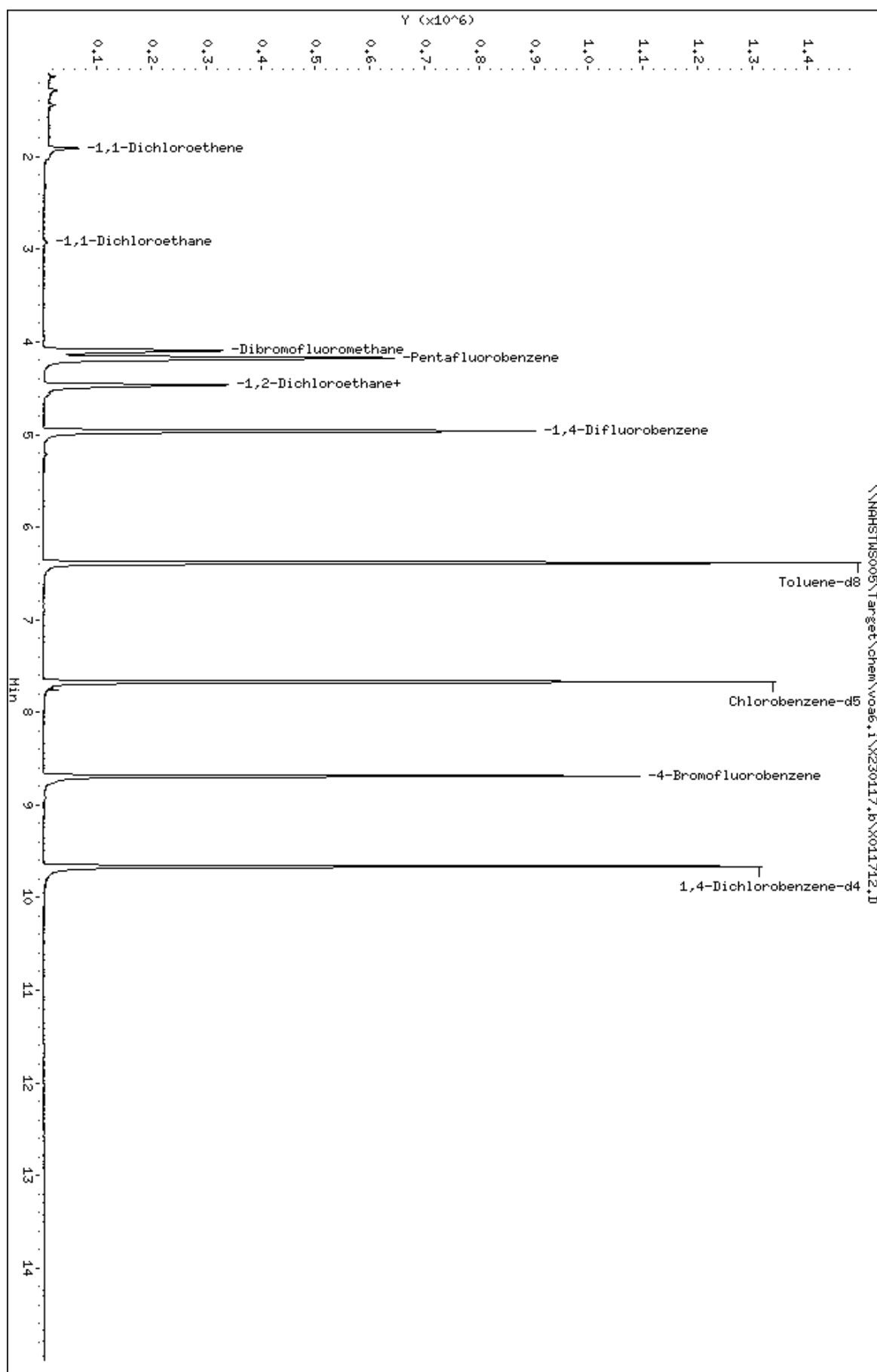
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011712.D

Page 2

Date : 17-JAN-2023 14:10

Client ID: HS23010587-06

Instrument: voa6.i

Sample Info: HS23010587-06;HS23010587-06;;;

Purge Volume: 5.0

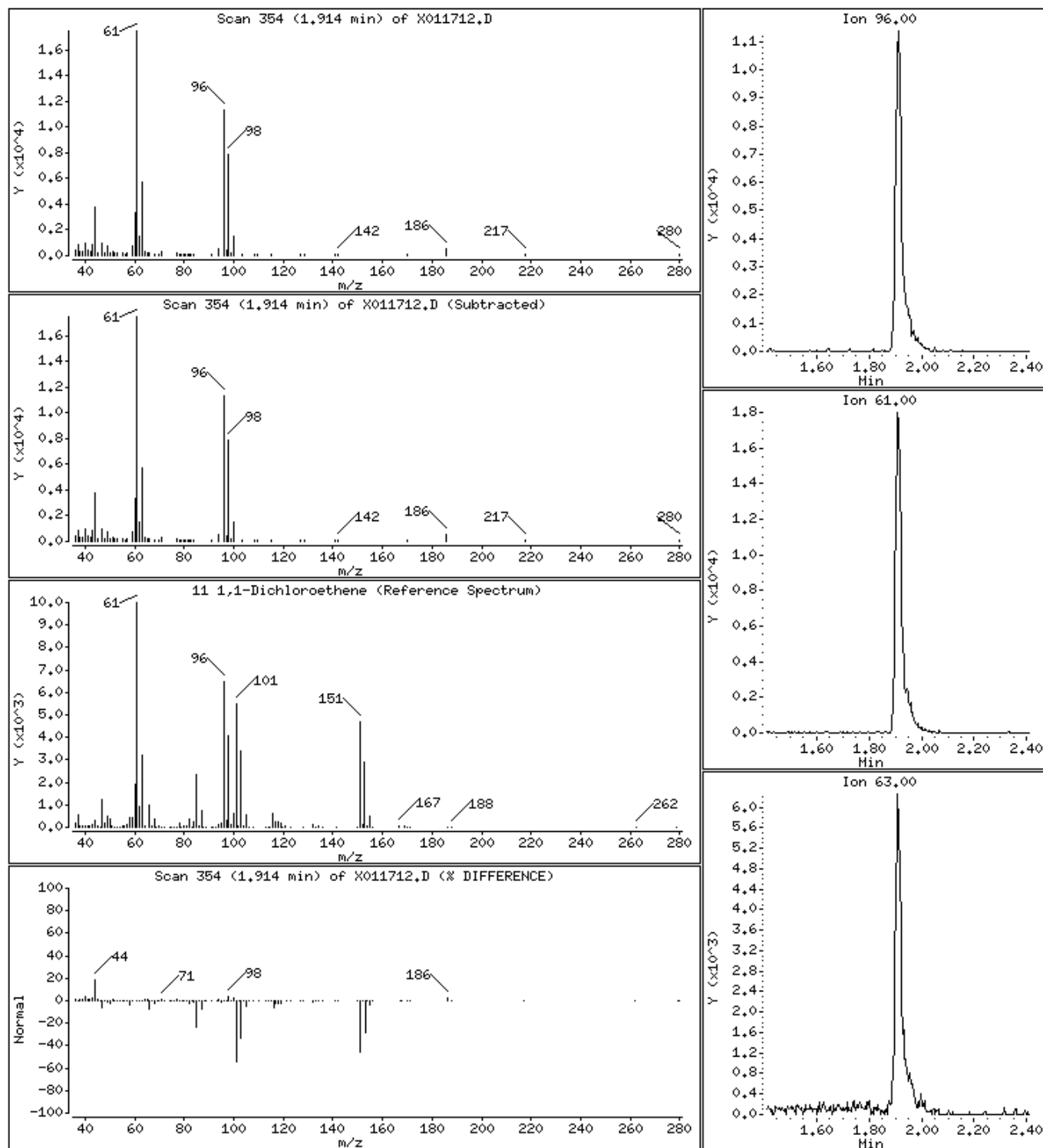
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 4.99 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011712.D

Page 3

Date : 17-JAN-2023 14:10

Client ID: HS23010587-06

Instrument: voa6.i

Sample Info: HS23010587-06;HS23010587-06;;

Purge Volume: 5.0

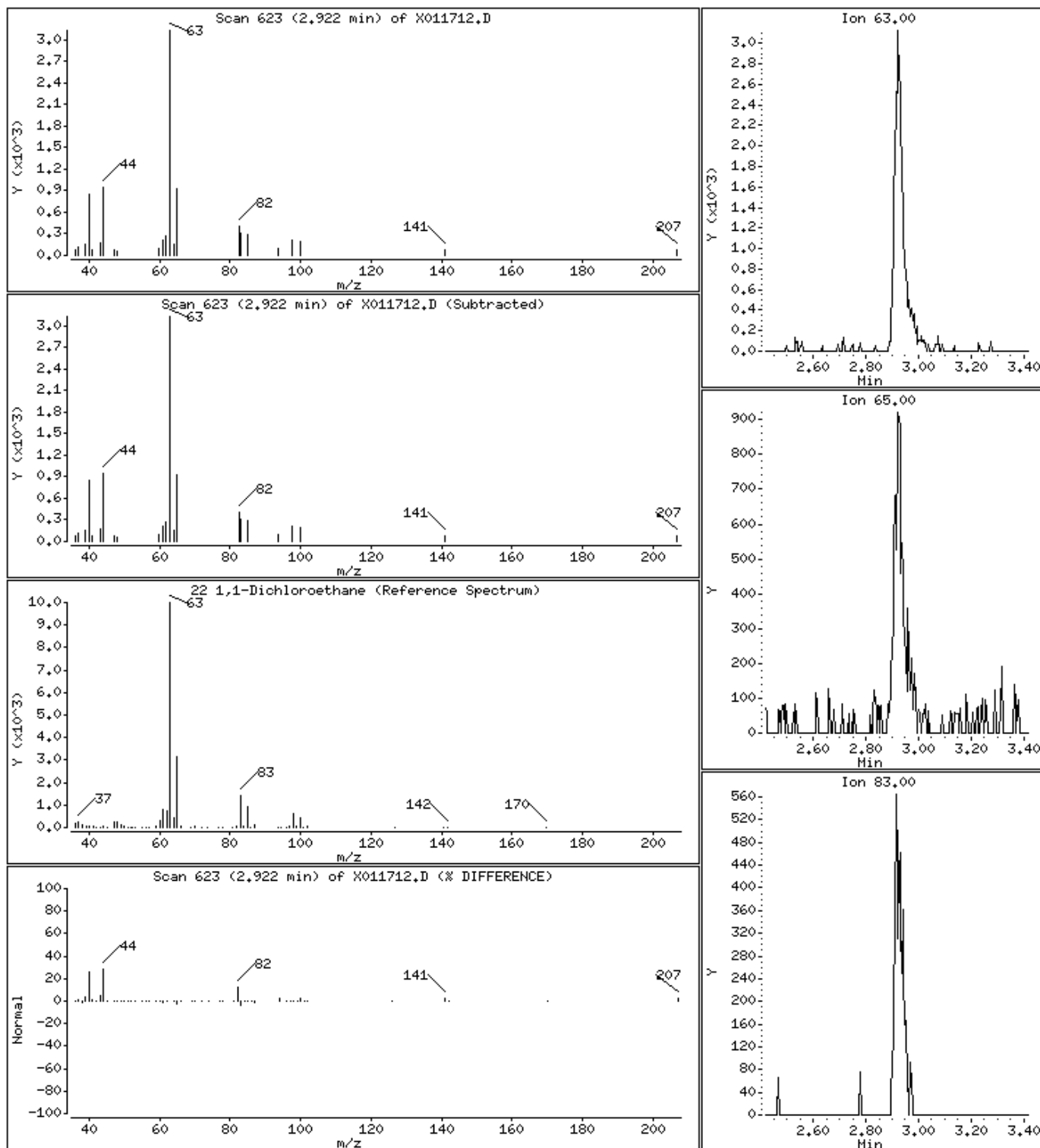
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 0.80 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011712.D

Page 4

Date : 17-JAN-2023 14:10

Client ID: HS23010587-06

Instrument: voa6.i

Sample Info: HS23010587-06;HS23010587-06;;;

Purge Volume: 5.0

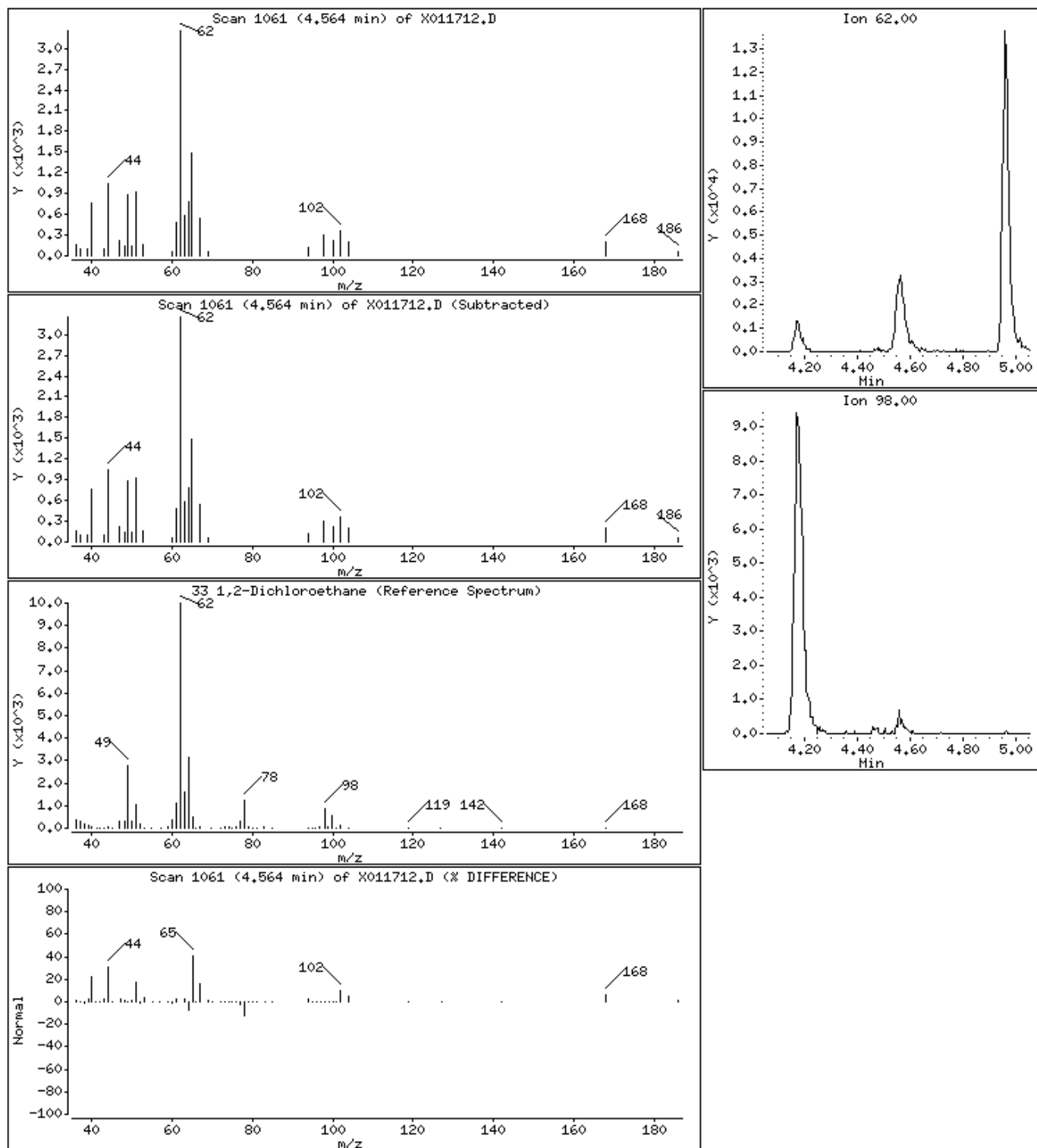
Operator: PC

Column phase: DB624

Column diameter: 0.18

33 1,2-Dichloroethane

Concentration: 1.28 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011712.D
Inj Date : 17-JAN-2023 14:10
InstruID : voa6.i
LabSampID : HS23010587-06

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D
 Lab Smp Id: HS23010587-02 Client Smp ID: HS23010587-02
 Inj Date : 17-JAN-2023 15:34
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010587-02;HS23010587-02;;;
 Misc Info : V6;WATER;0;25;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 25-Jan-2023 10:03 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 16
 Dil Factor: 25.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		545718	50.0000	
5 Vinyl Chloride	62		1.141	1.141	(0.273)		189221	39.6927	992.31
11 1,1-Dichloroethene	96		1.910	1.910	(0.457)		434148	104.822	2620.55
22 1,1-Dichloroethane	63		2.918	2.918	(0.699)		157677	19.3822	484.55
27 cis-1,2-Dichloroethene	96		3.529	3.521	(0.845)		20992	3.72121	93.03(a)
\$ 30 Dibromofluoromethane	113		4.095	4.091	(0.980)		239160	45.6270	45.62
33 1,2-Dichloroethane	62		4.560	4.552	(0.918)		3711	0.59197	14.79(a)
\$ 35 1,2-Dichloroethane-d4	65		4.466	4.466	(1.069)		262746	47.5203	47.52
* 36 1,4-Difluorobenzene	114		4.965	4.965	(1.000)		765126	50.0000	
38 Trichloroethene	130		5.205	5.201	(1.048)		44777	8.64045	216.01
* 47 Chlorobenzene-d5	117		7.667	7.667	(1.000)		671902	50.0000	
\$ 48 Toluene-d8	98		6.385	6.385	(0.833)		884480	53.2717	53.27
53 1,1,2-Trichloroethane	83		6.843	6.839	(0.892)		8241	2.21189	55.29(a)
\$ 69 4-Bromofluorobenzene	95		8.691	8.687	(1.133)		298132	48.0416	48.04
* 70 1,4-Dichlorobenzene-d4	152		9.662	9.662	(1.000)		344390	50.0000	
88 1,2-Dichlorobenzene	146		10.010	9.992	(1.036)		9316	0.96455	24.11(a)
M 94 1,2-Dichloroethylene (total)	96						20992	3.72121	93.03(a)
141 Cyclohexane	56		4.129	4.118	(0.988)		2012	1.61755	40.43(a)



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D Page 2
Report Date: 25-Jan-2023 10:03

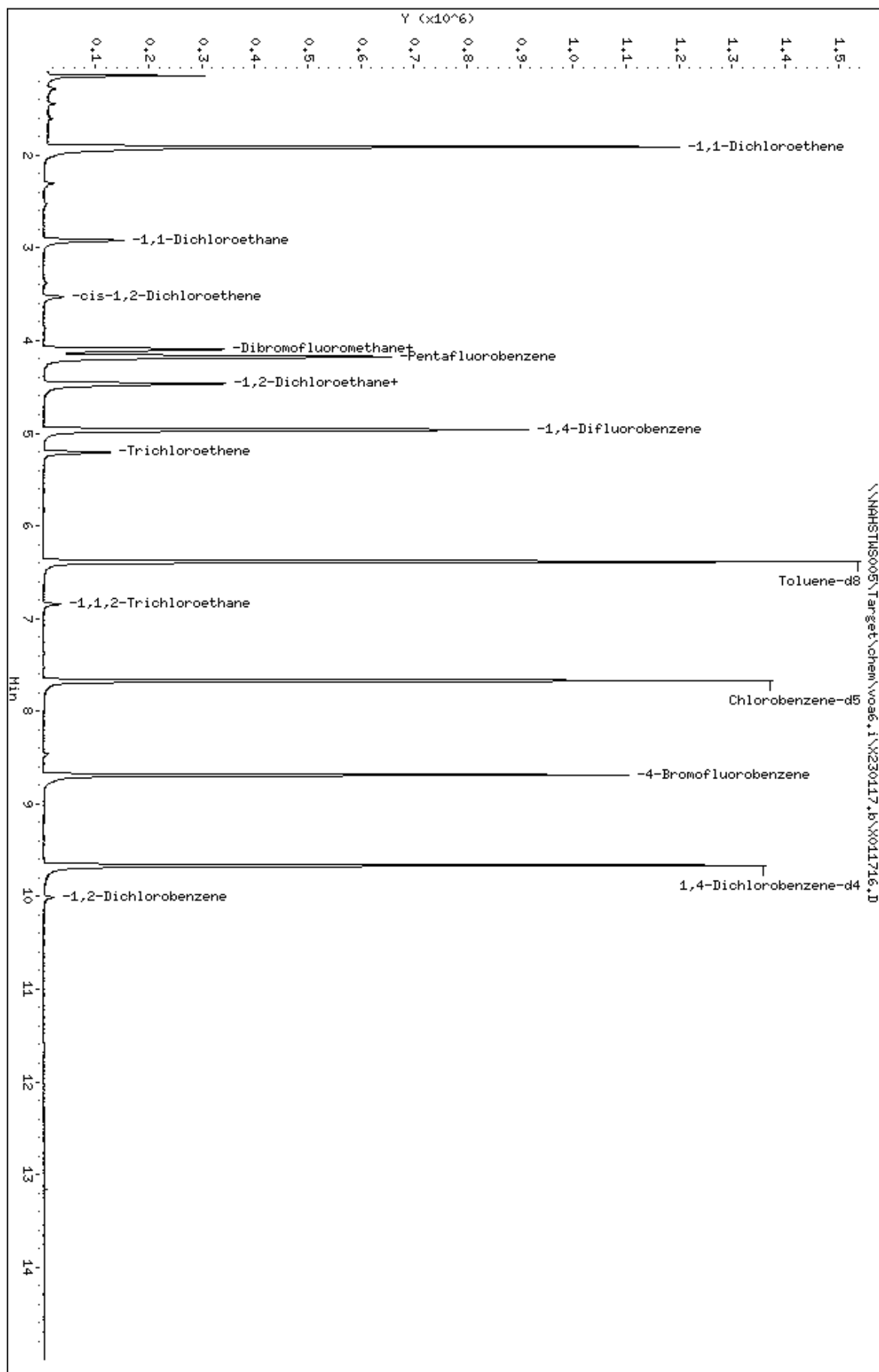
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230117.b\X011716.D
Date : 17-JAN-2023 15:34
Client ID: HS23010587-02
Sample Info: HS23010587-02;HS23010587-02;;;
Purge Volume: 5.0
Column phase: DB624

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



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 2

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

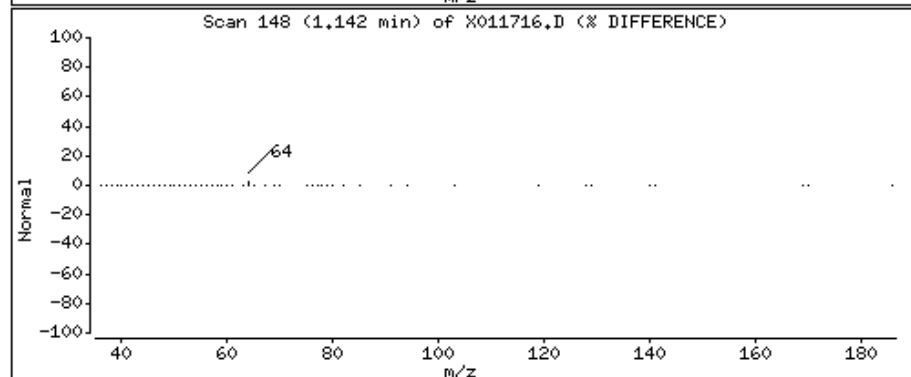
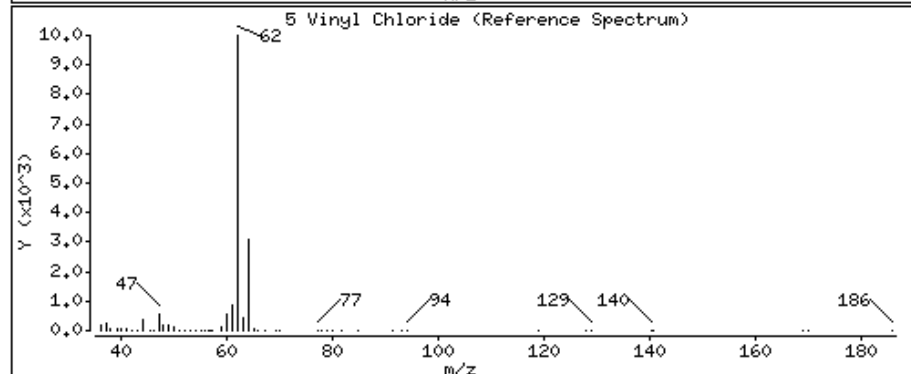
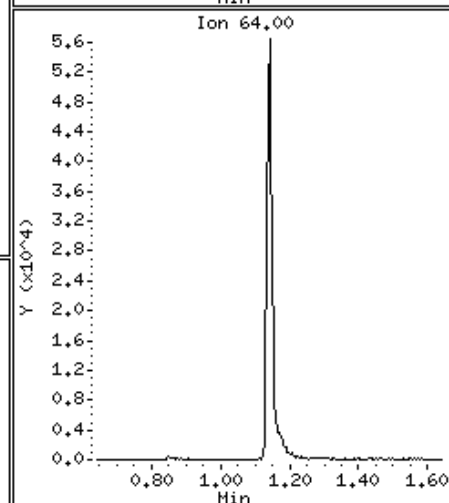
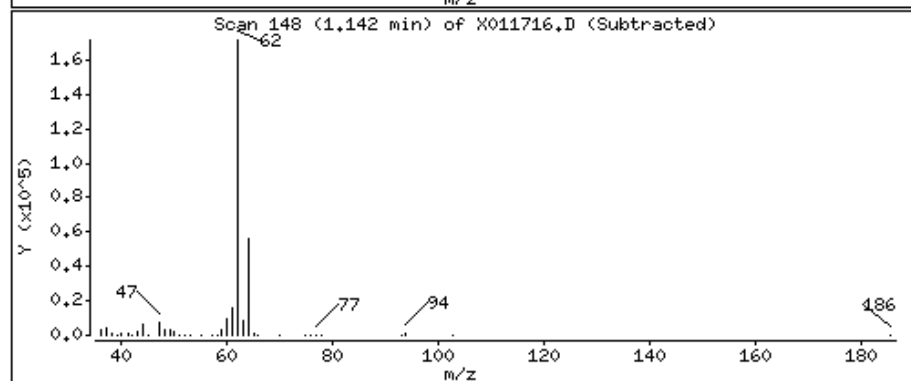
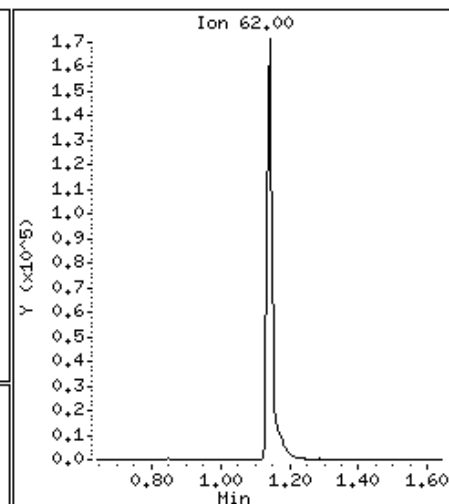
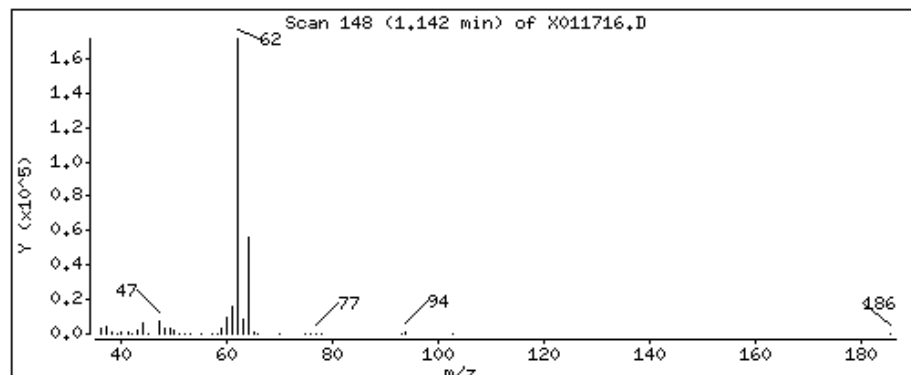
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 992.31 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 3

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

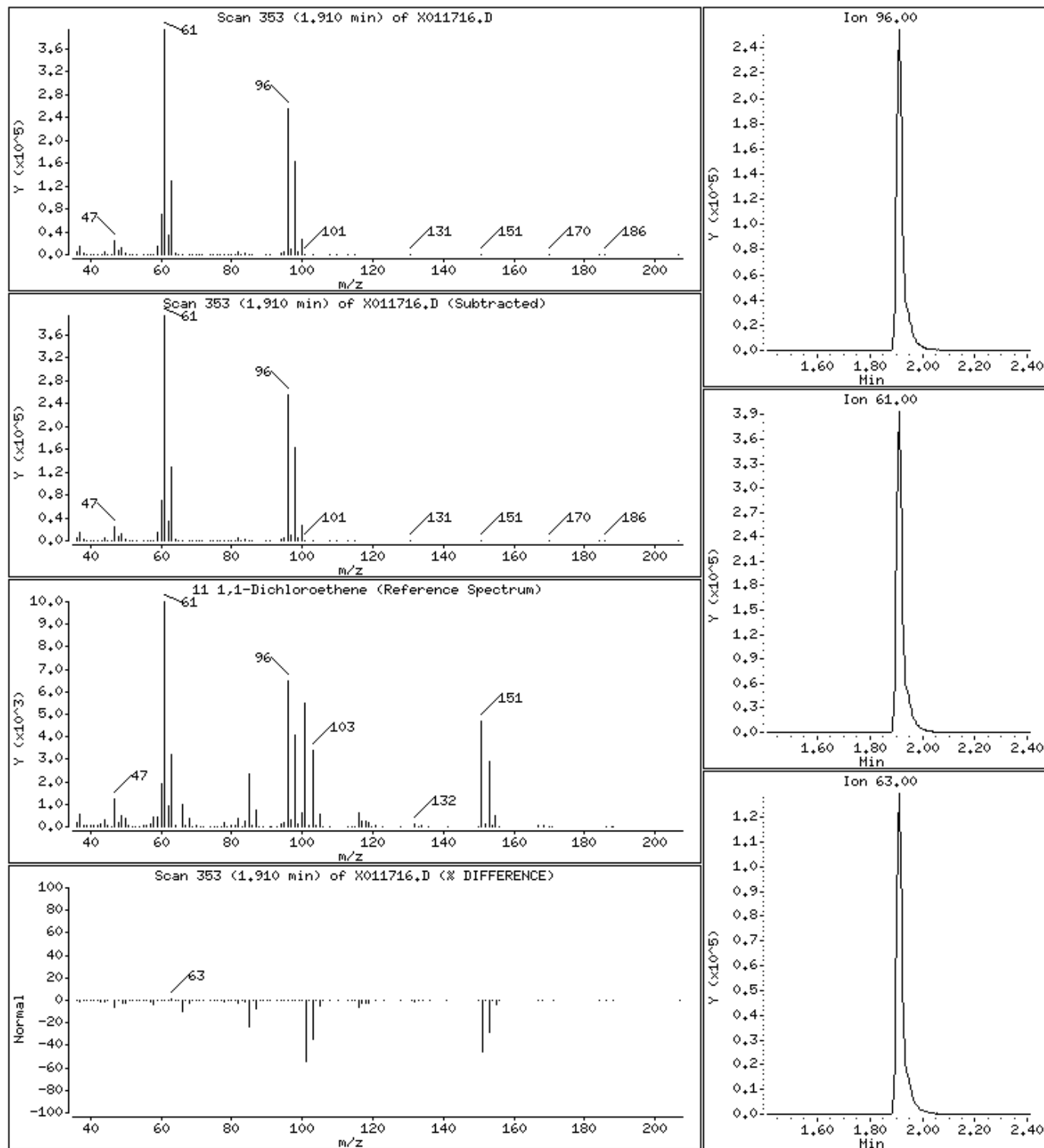
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 2620.55 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 4

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

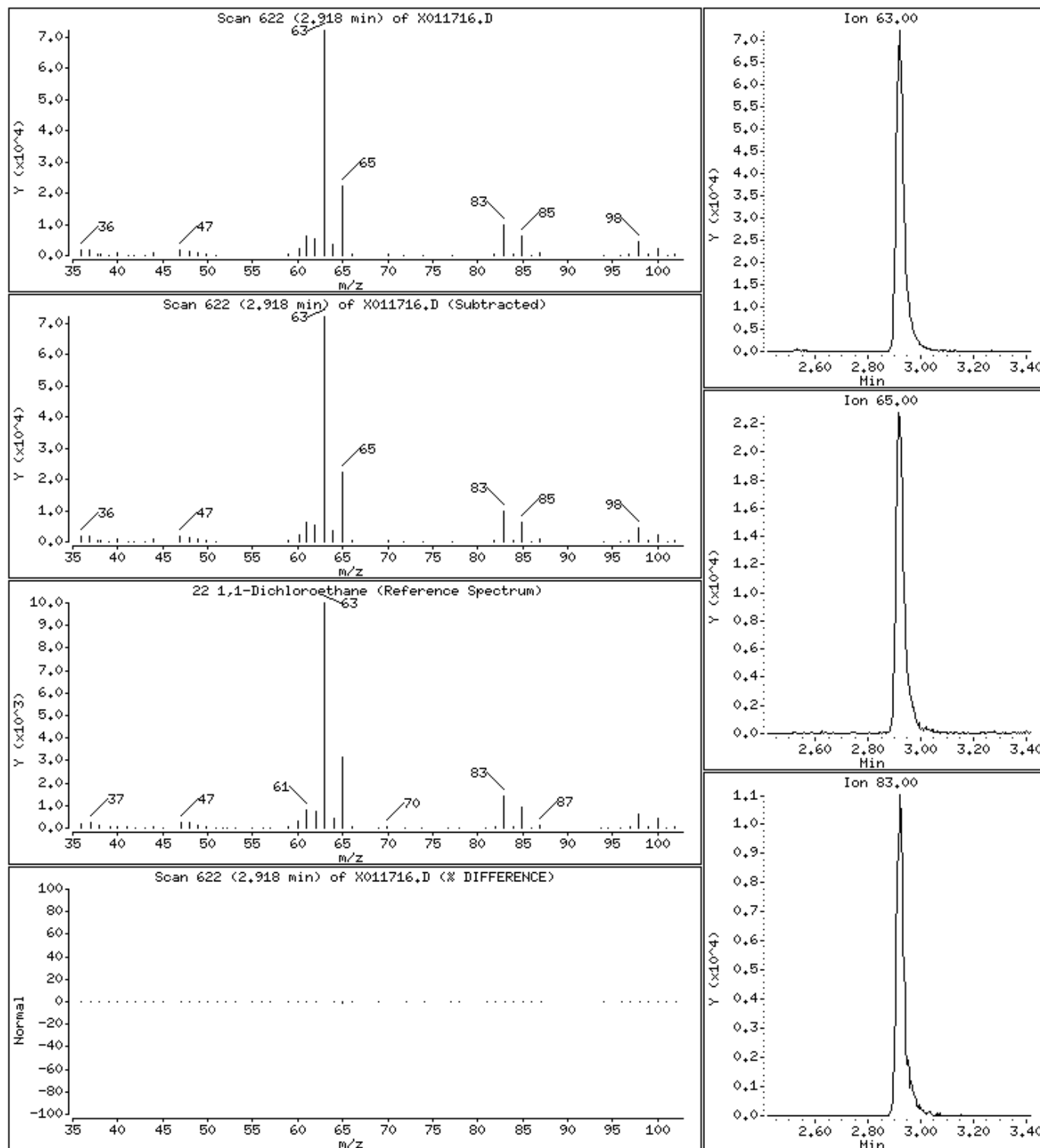
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 484.55 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 5

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

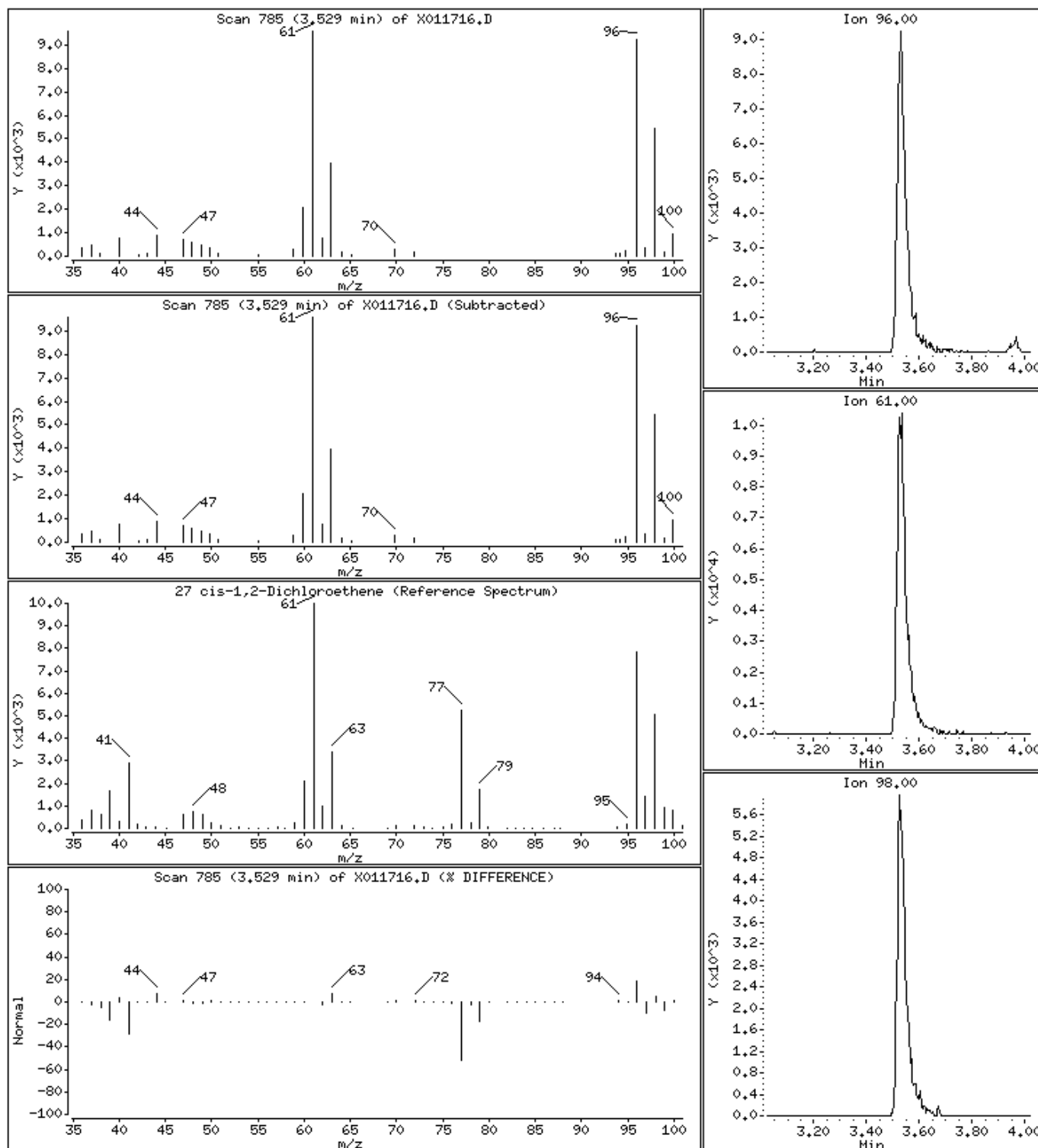
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 93.03 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 6

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

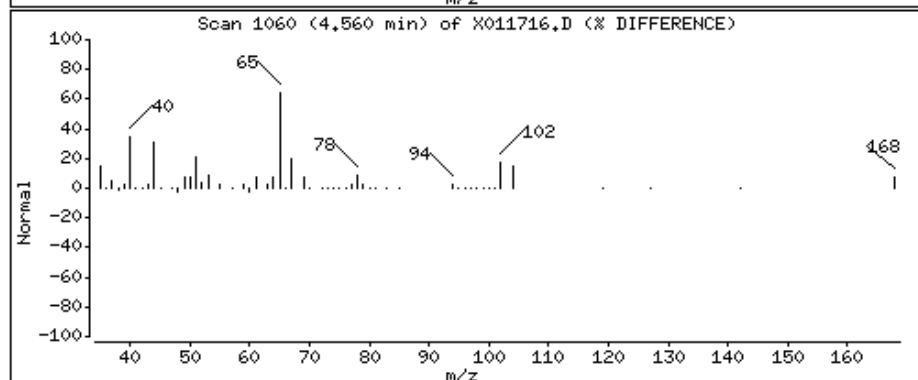
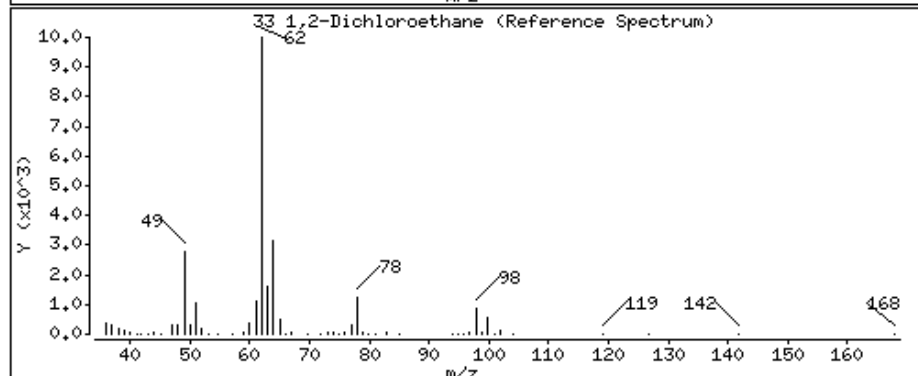
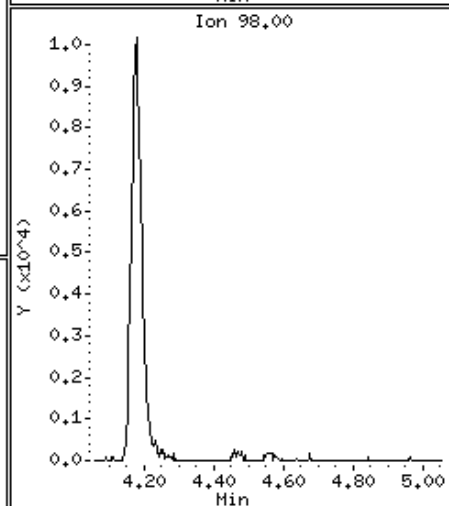
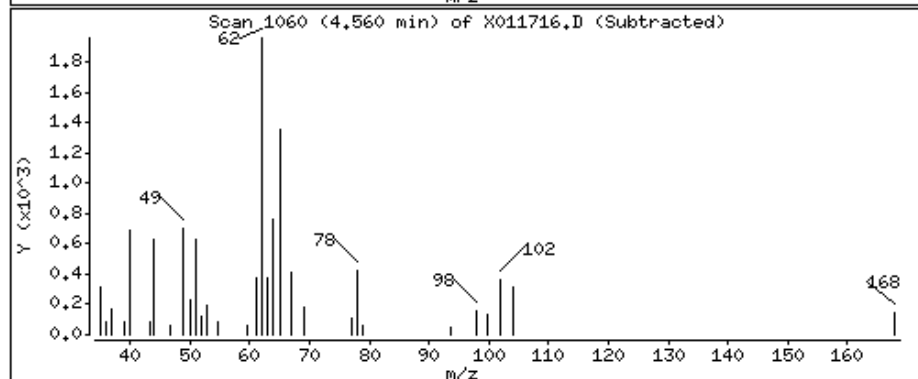
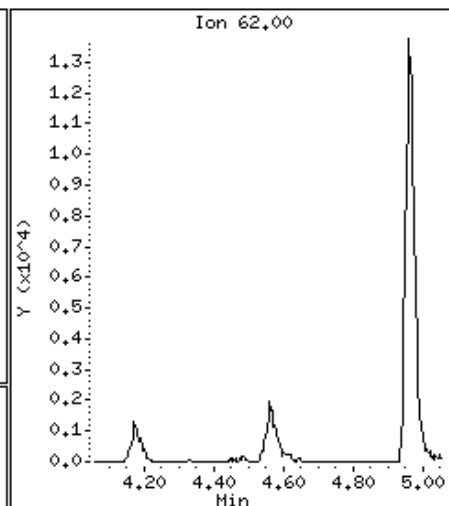
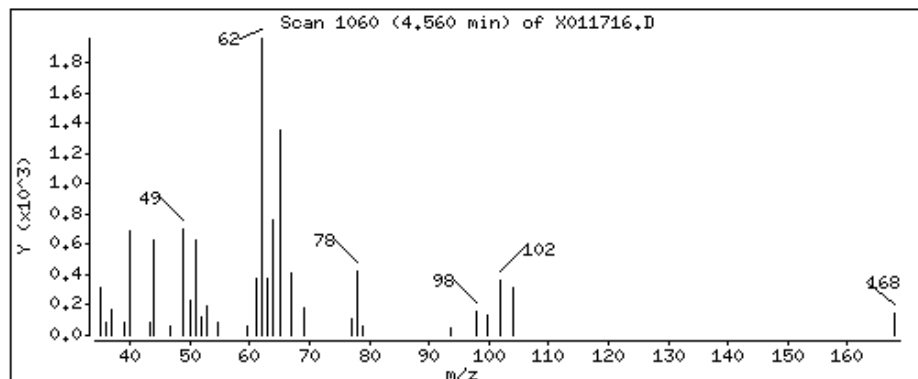
Operator: PC

Column phase: DB624

Column diameter: 0.18

33 1,2-Dichloroethane

Concentration: 14.79 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 7

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

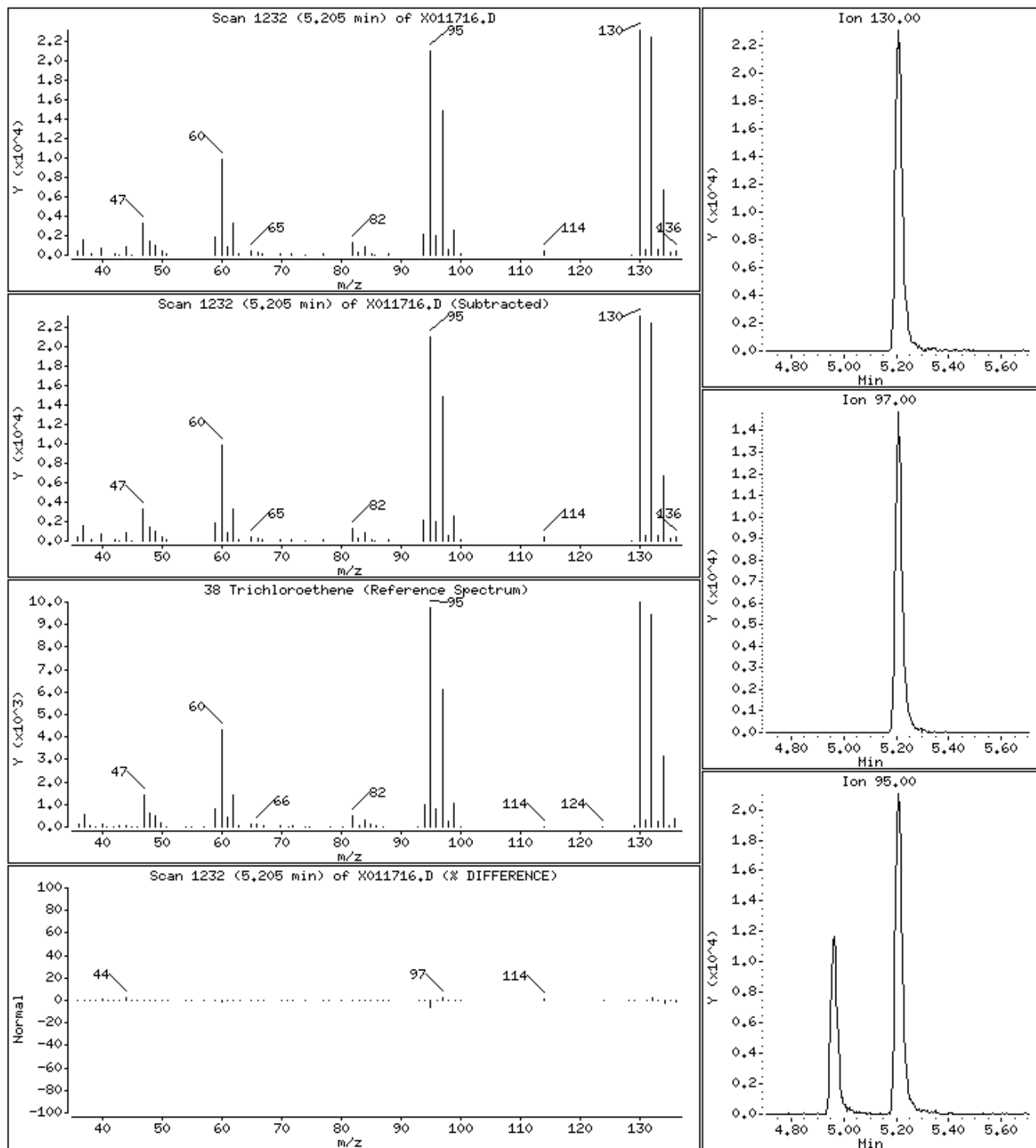
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 216.01 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 8

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

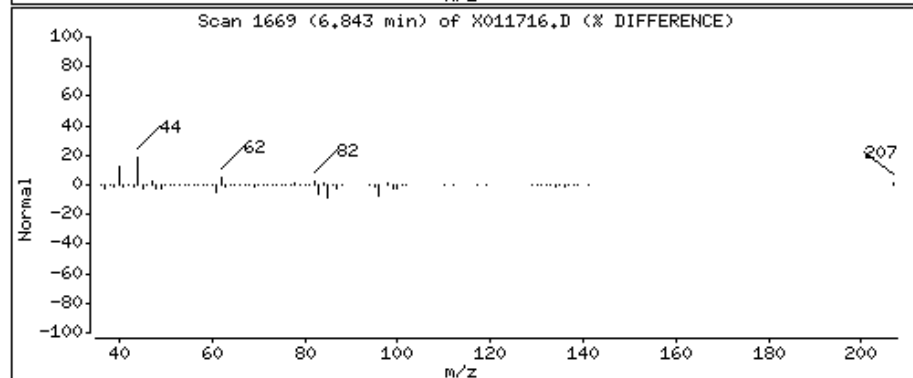
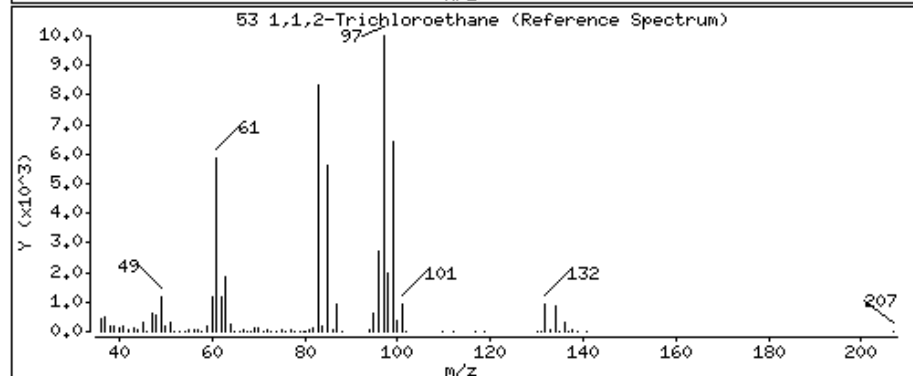
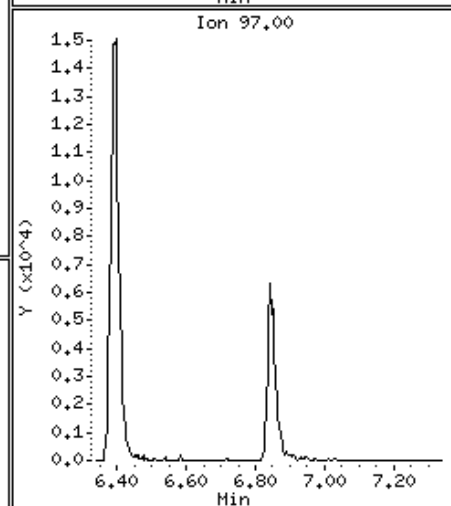
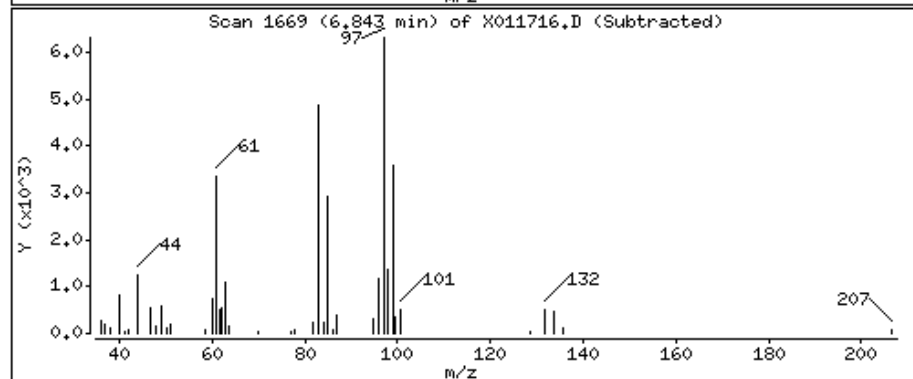
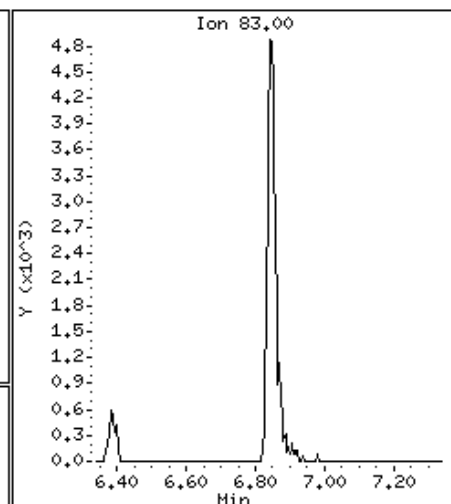
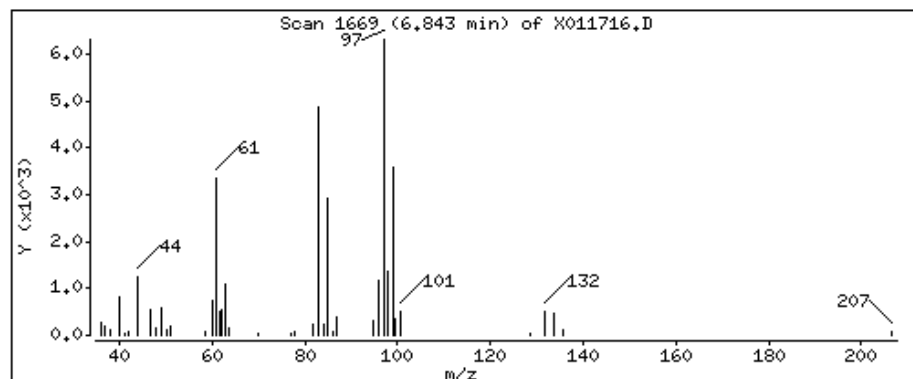
Operator: PC

Column phase: DB624

Column diameter: 0.18

53 1,1,2-Trichloroethane

Concentration: 55.29 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 9

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

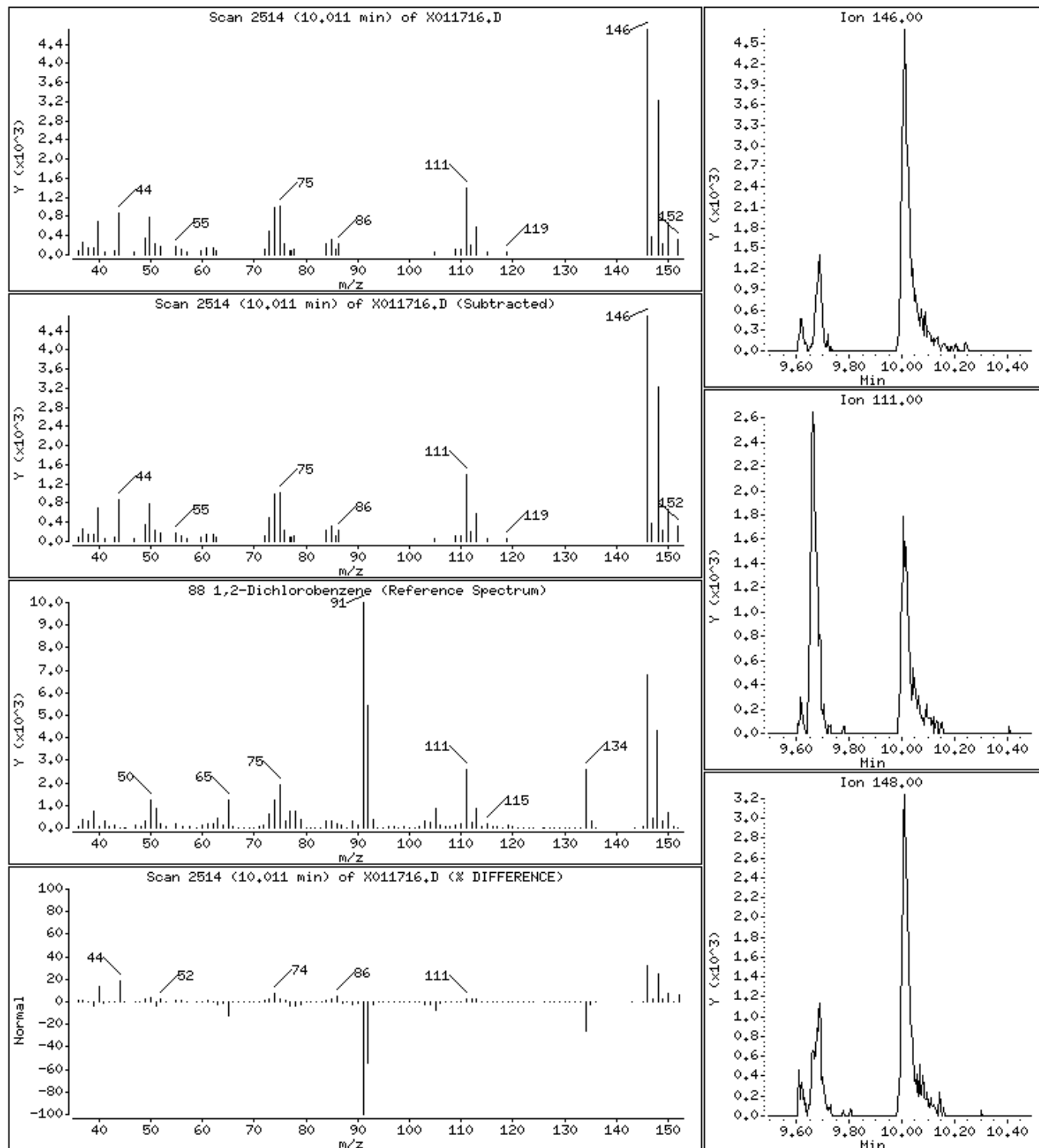
Operator: PC

Column phase: DB624

Column diameter: 0.18

88 1,2-Dichlorobenzene

Concentration: 24.11 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D

Page 10

Date : 17-JAN-2023 15:34

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

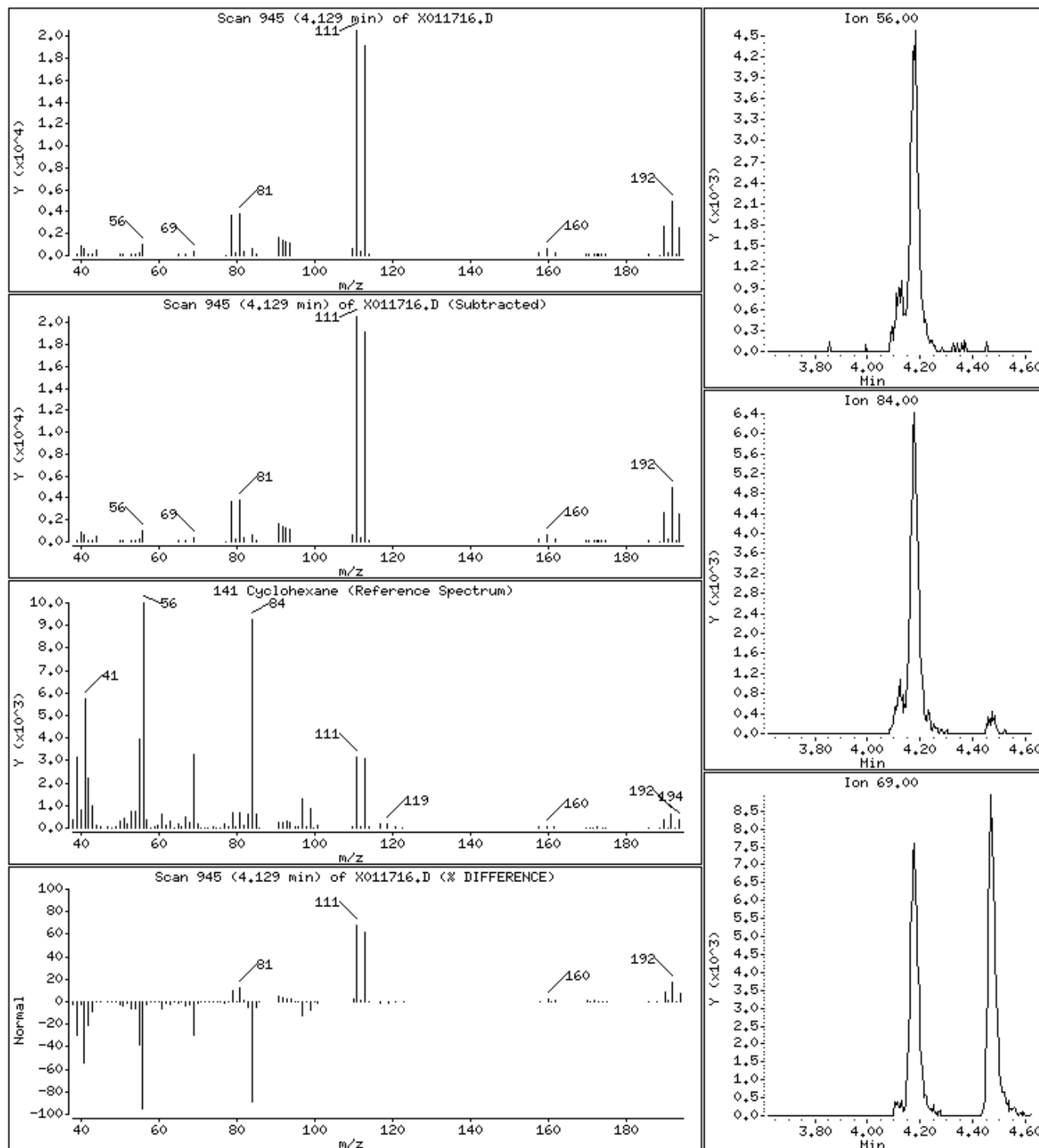
Operator: PC

Column phase: DB624

Column diameter: 0.18

141 Cyclohexane

Concentration: 40.43 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011716.D
Inj Date : 17-JAN-2023 15:34
InstruID : voa6.i
LabSampID : HS23010587-02

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011719.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011719.D
 Lab Smp Id: HS23010472-04MS Client Smp ID: HS23010472-04MS
 Inj Date : 17-JAN-2023 16:37
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010472-04MS;HS23010472-04MS;3;;MS
 Misc Info : V6;WATER;0;50;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 25-Jan-2023 10:03 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 19 QC Sample: MS
 Dil Factor: 50.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.177	(1.000)		540134	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		19394	392.799	19639.93(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		80116	21.6119	1080.59
25 Methacrylonitrile	41		3.821	3.818	(0.915)		72002	18.8260	941.29
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		253293	416.921	20846.07
13 Acetonitrile	39		2.195	2.194	(0.525)		108890	221.506	11075.29
14 Allyl Chloride	41		2.195	2.194	(0.525)		192019	20.5090	1025.45
4 Propionitrile	54		3.645	3.645	(0.873)		110439	200.386	10019.31(a)
72 trans-1,4-Dichloro-2-butene	53		8.886	8.886	(1.159)		32612	22.0203	1101.01
194 Acetaldehyde	44		1.209	1.209	(0.289)		29576	73.2197	3660.98
23 Chloroprene	53		1.767	1.767	(0.423)		41241	22.4560	1122.79(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		89013	21.1193	1055.96
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		71143	19.3170	965.84
49 Ethyl Methacrylate	69		6.708	6.708	(1.352)		67980	18.9905	949.52
131 Methyl Acrylate	55		3.687	3.683	(0.882)		76591	20.8864	1044.31
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		72895	19.5371	976.85
3 Chloromethane	50		1.074	1.074	(0.257)		97551	21.2904	1064.51
5 Vinyl Chloride	62		1.141	1.141	(0.273)		104092	22.0610	1103.04
6 Bromomethane	94		1.336	1.336	(0.320)		75944	22.2935	1114.67
7 Chloroethane	64		1.400	1.400	(0.335)		65882	20.0607	1003.03



8 Trichlorofluoromethane	101	1.554	1.557 (0.372)	164617	24.9311	1246.55
9 Acrolein	56	1.441	1.445 (0.345)	17685	49.3460	2467.30

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011719.D Page 2
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
10 Acetone	43	1.970	1.966 (0.472)		49328	32.5244	1626.21
11 1,1-Dichloroethene	96	1.910	1.910 (0.457)		94141	22.9647	1148.23
15 Iodomethane	142	2.022	2.022 (0.484)		192811	38.7435	1937.17
16 Acrylonitrile	53	2.532	2.528 (0.606)		59681	42.9253	2146.26
17 Methylene Chloride	84	2.300	2.299 (0.550)		105654	18.7896	939.47
18 Methyl tert-butyl ether	73	2.528	2.528 (0.605)		261059	19.4557	972.78
19 Carbon Disulfide	76	2.063	2.067 (0.494)		471156	43.9288	2196.43
20 trans-1,2-Dichloroethene	96	2.524	2.524 (0.604)		94661	20.6326	1031.62
21 Vinyl Acetate	43	2.993	2.993 (0.716)		495578	42.0734	2103.67
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)		160311	19.9097	995.48
24 2-Butanone	43	3.578	3.574 (0.856)		54614	35.9703	1798.51
26 2,2-Dichloropropane	77	3.507	3.506 (0.839)		148126	21.6668	1083.34
27 cis-1,2-Dichloroethene	96	3.522	3.521 (0.843)		110677	19.8223	991.11
28 Chloroform	83	3.900	3.900 (0.934)		177811	19.7027	985.13
29 Bromochloromethane	128	3.791	3.788 (0.908)		54565	17.8488	892.44
\$ 30 Dibromofluoromethane	113	4.095	4.091 (0.980)		234501	45.1991	45.19
31 1,1,1-Trichloroethane	97	4.080	4.076 (0.977)		159029	22.2099	1110.49
32 1,1-Dichloropropene	75	4.279	4.275 (0.862)		138411	25.6468	1282.34
33 1,2-Dichloroethane	62	4.552	4.552 (0.918)		131598	21.1290	1056.44
34 Carbon Tetrachloride	117	4.264	4.260 (0.859)		138682	24.0641	1203.20
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466 (1.070)		249485	45.5995	45.59
* 36 1,4-Difluorobenzene	114	4.961	4.965 (1.000)		760168	50.0000	
37 Benzene	78	4.511	4.507 (0.909)		394698	21.7433	1087.16
38 Trichloroethene	130	5.205	5.201 (1.049)		2098460	407.573	20378.65(A)
39 Bromodichloromethane	83	5.722	5.722 (1.153)		136382	20.0192	1000.96
41 2-Chloroethylvinyl ether	63	6.048	6.044 (1.219)		52706	27.1941	1359.70
42 1,2-Dichloropropane	63	5.433	5.433 (1.095)		98866	20.4746	1023.73
44 Dibromomethane	93	5.550	5.549 (1.119)		64821	19.7500	987.50
45 4-Methyl-2-Pentanone	43	6.326	6.322 (0.825)		164497	44.8600	2242.99
46 cis-1,3-Dichloropropene	75	6.153	6.153 (1.240)		162624	20.3260	1016.29
* 47 Chlorobenzene-d5	117	7.668	7.667 (1.000)		686043	50.0000	
\$ 48 Toluene-d8	98	6.386	6.385 (0.833)		890112	52.5059	52.50
50 Toluene	91	6.446	6.445 (0.841)		435536	22.9684	1148.41
51 trans-1,3-Dichloropropene	75	6.682	6.682 (1.347)		136124	20.5015	1025.07
52 2-Hexanone	43	7.087	7.086 (0.924)		109612	43.9355	2196.77
53 1,1,2-Trichloroethane	83	6.835	6.839 (0.891)		79146	20.8049	1040.24
54 1,3-Dichloropropane	76	6.982	6.981 (0.911)		159046	21.2405	1062.02
55 Dibromochloromethane	129	7.177	7.176 (0.936)		112222	20.4392	1021.96
56 Tetrachloroethene	164	6.925	6.929 (0.903)		107006	27.2738	1363.68
57 1,2-Dibromoethane	107	7.259	7.259 (0.947)		101318	21.3016	1065.07
58 1-Chlorohexane	55	7.694	7.694 (1.551)		103567	28.1919	1409.59
59 Chlorobenzene	112	7.690	7.694 (1.003)		290321	21.5853	1079.26
60 1,1,1,2-Tetrachloroethane	131	7.773	7.772 (1.014)		107669	21.5107	1075.53
61 Ethylbenzene	106	7.799	7.799 (1.017)		155434	24.5333	1226.66
62 m,p-Xylenes	106	7.904	7.904 (1.031)		384503	47.0780	2353.90
63 o-Xylene	106	8.241	8.241 (1.075)		184289	22.8615	1143.07
64 Styrene	104	8.260	8.256 (1.077)		310832	23.0052	1150.25
66 Bromoform	173	8.410	8.410 (1.097)		76606	20.1397	1006.98
67 Isopropylbenzene	105	8.560	8.560 (1.116)		483334	26.2444	1312.21
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)		126885	21.3511	1067.55
\$ 69 4-Bromofluorobenzene	95	8.687	8.687 (1.133)		313494	49.4739	49.47
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)		372856	50.0000	



71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	98832	23.8218	1191.08(M)
73 n-Propylbenzene	91	8.912	8.912 (0.922)	565549	27.3835	1369.17



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011719.D Page 3
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
74 Bromobenzene	156	8.807	8.803	(0.912)	136484	22.3113	1115.56
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	403395	26.4400	1322.00
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	335129	24.7279	1236.39
77 4-Chlorotoluene	91	9.070	9.069	(0.939)	383512	24.8230	1241.14
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	351275	28.1271	1406.35
79 1,2,4-Trimethylbenzene	105	9.377	9.381	(0.971)	400979	24.9778	1248.88
81 sec-Butylbenzene	105	9.519	9.523	(0.985)	489171	29.4383	1471.91
82 p-Isopropyltoluene	119	9.647	9.651	(0.998)	432143	29.0218	1451.09
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	244586	24.0894	1204.46
84 1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	256446	23.1459	1157.29
87 n-Butylbenzene	91	9.995	9.992	(1.035)	376232	27.0619	1353.09
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	238722	22.8294	1141.47
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	21171	22.3339	1116.69
90 1,2,4-Trichlorobenzene	180	11.338	11.337	(1.173)	162660	24.6487	1232.43
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	80642	27.6975	1384.87
92 Naphthalene	128	11.544	11.540	(1.195)	354396	23.6033	1180.16
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	149003	23.5754	1178.77
M 94 1,2-Dichloroethylene (total)	96				205338	40.4549	2022.74
M 95 Xylenes (total)	106				568792	69.9395	3496.97
141 Cyclohexane	56	4.118	4.118	(0.986)	154737	28.9652	1448.26
138 Freon TF	101	1.910	1.910	(0.457)	103033	25.9861	1299.30
147 Methylcyclohexane	55	5.377	5.377	(1.084)	231466	24.8752	1243.76
146 Methyl Acetate	43	2.228	2.228	(0.533)	49823	20.4992	1024.96
148 Tert-Butyl alcohol	59	2.423	2.419	(0.580)	152639	408.119	20405.93
149 Isopropyl Alcohol	45	2.090	2.086	(0.500)	81502	417.265	20863.26

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230117.b\X011719.D

Date: 17-JAN-2023 16:37

Client ID: HS23010472-04HS

Sample Info: HS23010472-04HS;HS23010472-04HS;3;MS

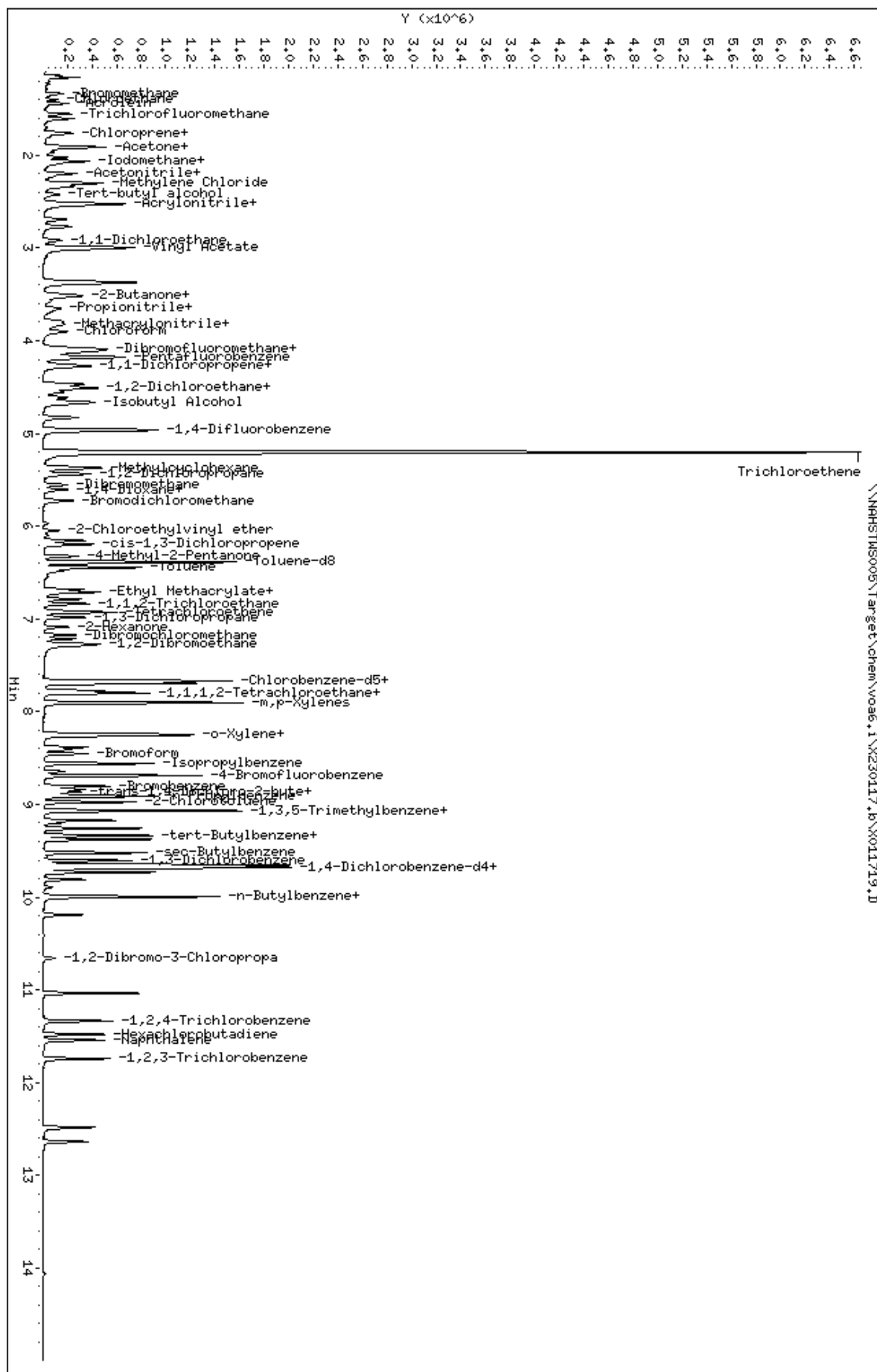
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Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18

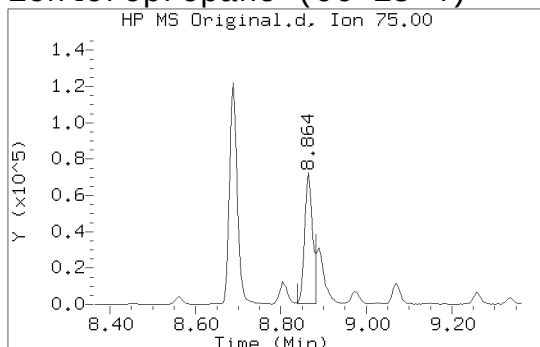


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Inj Date : 17-JAN-2023 16:37
InstruID : voa6.i
LabSampID : HS23010472-04MS

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

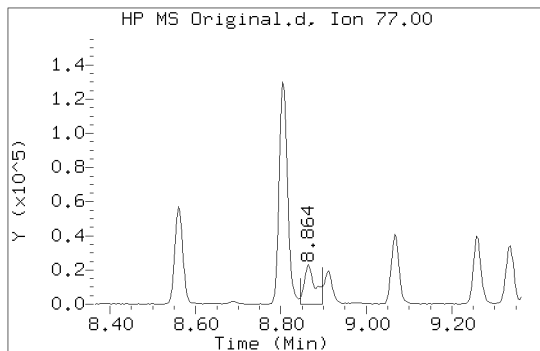
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HEIGHT
72378
25-Jan-2023
10:03
linh



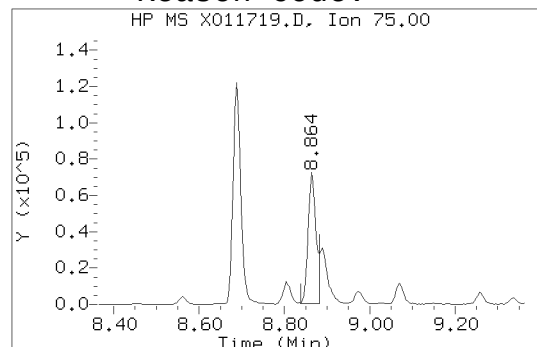
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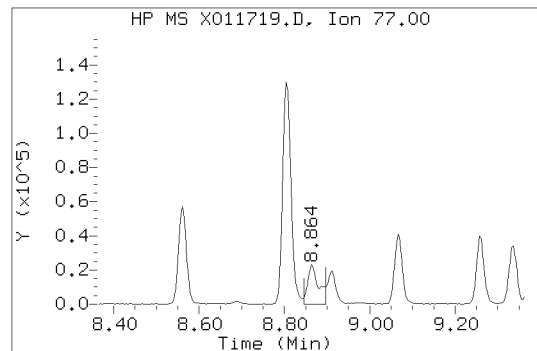
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AFTER

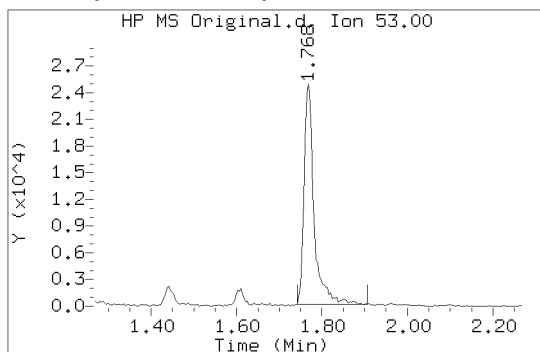
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Chloroprene (126-99-8)

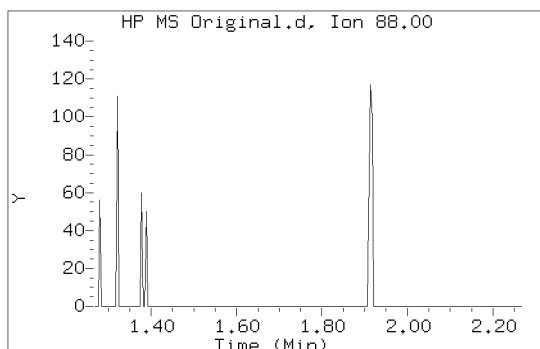
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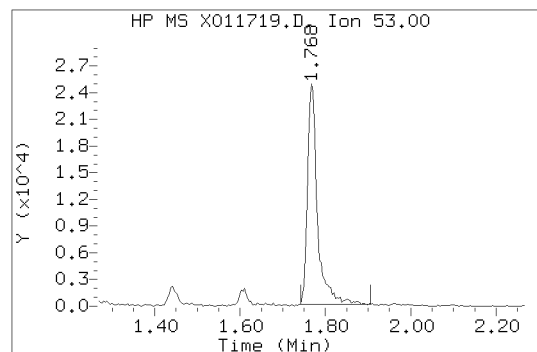
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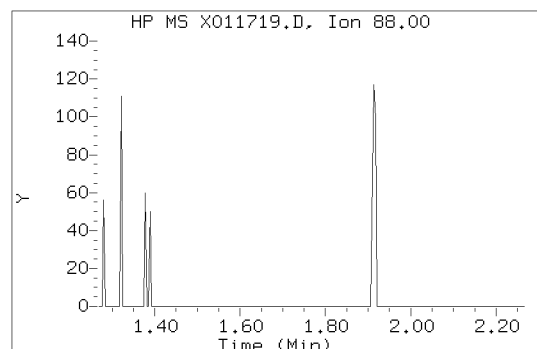
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25-Jan-2023
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AFTER

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AREA
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HEIGHT
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25-Jan-2023
10:03
linh
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011720.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011720.D
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 Inj Date : 17-JAN-2023 16:58
 Operator : PC Inst ID: voa6.i
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 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 19 QC Sample: MSD
 Dil Factor: 50.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.174	4.177	(1.000)		544635	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.341)		19027	382.181	19109.04(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		70911	18.9707	948.53
25 Methacrylonitrile	41		3.821	3.818	(0.916)		69504	18.0227	901.13
12 Isobutyl Alcohol	43		4.672	4.672	(1.119)		241683	394.524	19726.18
13 Acetonitrile	39		2.195	2.194	(0.526)		97949	197.603	9880.14
14 Allyl Chloride	41		2.195	2.194	(0.526)		176389	18.6839	934.19
4 Propionitrile	54		3.653	3.645	(0.875)		99050	178.236	8911.80(a)
72 trans-1,4-Dichloro-2-butene	53		8.890	8.886	(1.159)		30186	20.3332	1016.66
194 Acetaldehyde	44		1.209	1.209	(0.290)		71640	208.542	10427.09
23 Chloroprene	53		1.767	1.767	(0.423)		37957	20.4970	1024.85(M)
130 Ethyl Acetate	43		3.649	3.649	(0.874)		80385	18.9146	945.73
40 Methyl Methacrylate	41		5.606	5.602	(1.343)		70348	18.9433	947.16
49 Ethyl Methacrylate	69		6.712	6.708	(1.353)		65831	18.3215	916.07
131 Methyl Acrylate	55		3.686	3.683	(0.883)		76561	20.7056	1035.28
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		64347	17.1525	857.62
3 Chloromethane	50		1.074	1.074	(0.257)		84092	18.5222	926.10
5 Vinyl Chloride	62		1.141	1.141	(0.273)		90618	19.0466	952.33
6 Bromomethane	94		1.336	1.336	(0.320)		64548	19.0687	953.43
7 Chloroethane	64		1.400	1.400	(0.335)		58811	17.7596	887.98



8 Trichlorofluoromethane	101	1.553	1.557 (0.372)	142962	21.4726	1073.62
9 Acrolein	56	1.437	1.445 (0.344)	14823	41.4947	2074.73

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011720.D Page 2
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
10 Acetone	43	1.970	1.966 (0.472)		46880	30.6529	1532.64
11 1,1-Dichloroethene	96	1.910	1.910 (0.458)		79573	19.2506	962.52
15 Iodomethane	142	2.022	2.022 (0.485)		178557	35.8920	1794.60
16 Acrylonitrile	53	2.532	2.528 (0.607)		54127	38.6089	1930.44
17 Methylene Chloride	84	2.299	2.299 (0.551)		94794	16.7189	835.94
18 Methyl tert-butyl ether	73	2.532	2.528 (0.607)		241401	17.8420	892.10
19 Carbon Disulfide	76	2.063	2.067 (0.494)		403302	37.2916	1864.57
20 trans-1,2-Dichloroethene	96	2.524	2.524 (0.605)		79959	17.2840	864.20
21 Vinyl Acetate	43	2.993	2.993 (0.717)		450728	37.9495	1897.47
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)		139711	17.2079	860.39
24 2-Butanone	43	3.578	3.574 (0.857)		50801	33.4169	1670.84
26 2,2-Dichloropropane	77	3.507	3.506 (0.840)		126303	18.3220	916.10
27 cis-1,2-Dichloroethene	96	3.522	3.521 (0.844)		96910	17.2132	860.65
28 Chloroform	83	3.900	3.900 (0.934)		155544	17.0929	854.64
29 Bromochloromethane	128	3.788	3.788 (0.908)		49513	16.0624	803.12
\$ 30 Dibromofluoromethane	113	4.095	4.091 (0.981)		230762	44.1068	44.10
31 1,1,1-Trichloroethane	97	4.080	4.076 (0.978)		141282	19.5683	978.41
32 1,1-Dichloropropene	75	4.275	4.275 (0.862)		122795	22.6682	1133.41
33 1,2-Dichloroethane	62	4.552	4.552 (0.918)		117736	18.8327	941.63
34 Carbon Tetrachloride	117	4.260	4.260 (0.859)		121905	21.0739	1053.69
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466 (1.070)		258253	46.8047	46.80
* 36 1,4-Difluorobenzene	114	4.961	4.965 (1.000)		763020	50.0000	
37 Benzene	78	4.507	4.507 (0.909)		347354	19.0637	953.18
38 Trichloroethene	130	5.205	5.201 (1.049)		2001496	387.287	19364.36(A)
39 Bromodichloromethane	83	5.726	5.722 (1.154)		122078	17.8526	892.62
41 2-Chloroethylvinyl ether	63	6.048	6.044 (1.219)		42342	21.7651	1088.25
42 1,2-Dichloropropane	63	5.433	5.433 (1.095)		89373	18.4395	921.97
44 Dibromomethane	93	5.553	5.549 (1.119)		59656	18.1084	905.41
45 4-Methyl-2-Pentanone	43	6.322	6.322 (0.824)		149908	40.7832	2039.15
46 cis-1,3-Dichloropropene	75	6.153	6.153 (1.240)		145766	18.1508	907.54
* 47 Chlorobenzene-d5	117	7.668	7.667 (1.000)		687695	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385 (0.833)		890639	52.4108	52.41
50 Toluene	91	6.445	6.445 (0.841)		383488	20.1750	1008.74
51 trans-1,3-Dichloropropene	75	6.682	6.682 (1.347)		124557	18.6893	934.46
52 2-Hexanone	43	7.086	7.086 (0.924)		101719	40.6738	2033.69
53 1,1,2-Trichloroethane	83	6.839	6.839 (0.892)		71111	18.6479	932.39
54 1,3-Dichloropropane	76	6.982	6.981 (0.911)		146287	19.4896	974.48
55 Dibromochloromethane	129	7.176	7.176 (0.936)		104495	18.9862	949.30
56 Tetrachloroethene	164	6.925	6.929 (0.903)		94439	24.0129	1200.64
57 1,2-Dibromoethane	107	7.259	7.259 (0.947)		92508	19.4026	970.12
58 1-Chlorohexane	55	7.694	7.694 (1.551)		92077	24.9705	1248.52
59 Chlorobenzene	112	7.694	7.694 (1.003)		259608	19.2554	962.77
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772 (1.014)		95417	19.0171	950.85
61 Ethylbenzene	106	7.799	7.799 (1.017)		134702	21.2100	1060.49
62 m,p-Xylenes	106	7.904	7.904 (1.031)		342394	41.8216	2091.07
63 o-Xylene	106	8.241	8.241 (1.075)		165408	20.4700	1023.49
64 Styrene	104	8.260	8.256 (1.077)		275685	20.3549	1017.74
66 Bromoform	173	8.410	8.410 (1.097)		70464	18.4804	924.02
67 Isopropylbenzene	105	8.560	8.560 (1.116)		426227	23.0880	1154.39
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)		116596	19.3922	969.61
\$ 69 4-Bromofluorobenzene	95	8.687	8.687 (1.133)		315411	49.6566	49.65
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)		377231	50.0000	



71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	84942	20.2364	1011.81(M)
73 n-Propylbenzene	91	8.912	8.912 (0.922)	497321	23.8006	1190.03



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011720.D Page 3
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
74 Bromobenzene	156	8.803	8.803	(0.911)	124556	20.1252	1006.26
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	357810	23.1802	1159.01
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	296741	21.6415	1082.07
77 4-Chlorotoluene	91	9.070	9.069	(0.939)	341008	21.8159	1090.79
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	309047	24.4589	1222.94
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	359391	22.1275	1106.37
81 sec-Butylbenzene	105	9.519	9.523	(0.985)	433784	25.8023	1290.11
82 p-Isopropyltoluene	119	9.647	9.651	(0.998)	379482	25.1897	1259.48
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	216720	21.0973	1054.86
84 1,4-Dichlorobenzene	146	9.681	9.680	(1.002)	229492	20.4729	1023.64
87 n-Butylbenzene	91	9.995	9.992	(1.035)	338577	24.2673	1213.36
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	216548	20.4687	1023.43
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	18737	19.5485	977.42
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	151467	22.6863	1134.31
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	73364	24.9167	1245.83
92 Naphthalene	128	11.544	11.540	(1.195)	336037	22.1210	1106.05
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	139334	21.7899	1089.49
M 94 1,2-Dichloroethylene (total)	96				176869	34.4972	1724.86
M 95 Xylenes (total)	106				507802	62.2915	3114.57
141 Cyclohexane	56	4.118	4.118	(0.987)	134309	25.1091	1255.45
138 Freon TF	101	1.910	1.910	(0.458)	87283	21.8319	1091.59
147 Methylcyclohexane	55	5.377	5.377	(1.084)	212638	22.7664	1138.31
146 Methyl Acetate	43	2.228	2.228	(0.534)	43998	17.9530	897.64
148 Tert-Butyl alcohol	59	2.423	2.419	(0.581)	148470	393.691	19684.56
149 Isopropyl Alcohol	45	2.090	2.086	(0.501)	80611	409.293	20464.65

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230117.0\X011720.D

Date : 17-JAN-2023 16:58

Client ID: HS23010472-04MSD

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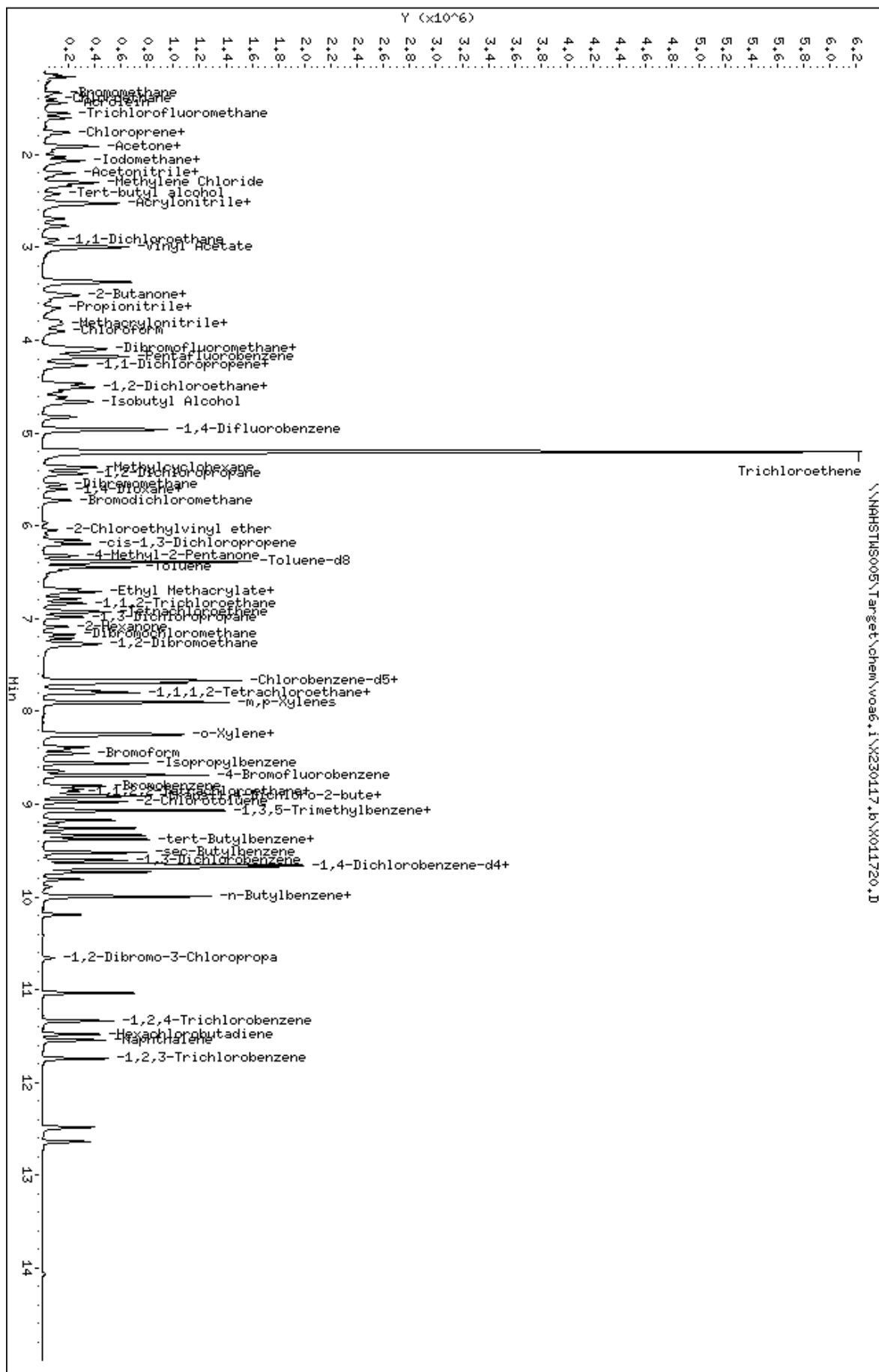
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Operator: PC

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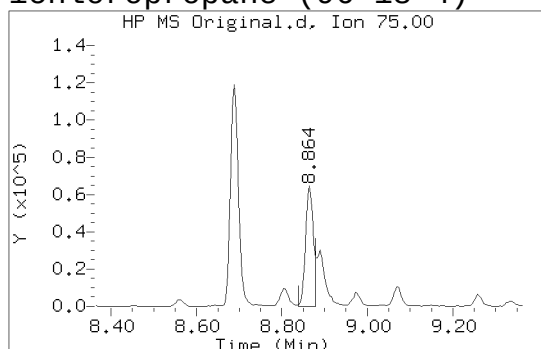


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Inj Date : 17-JAN-2023 16:58
InstruID : voa6.i
LabSampID : HS23010472-04MSD

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

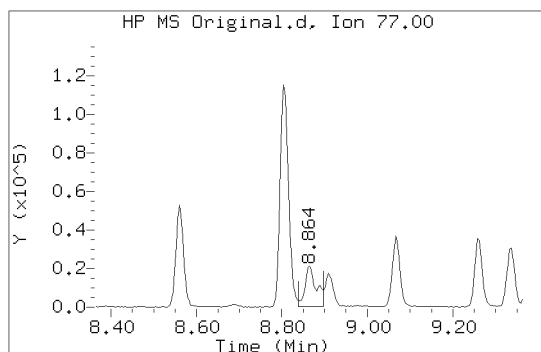
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25-Jan-2023
10:03
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BEFORE

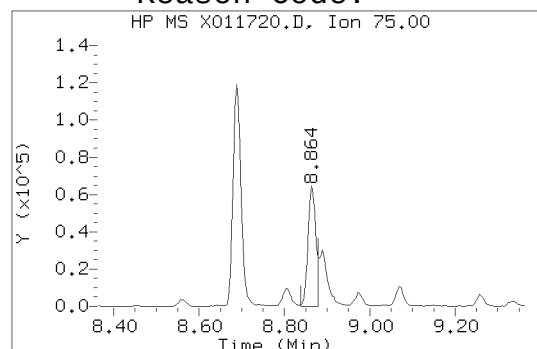
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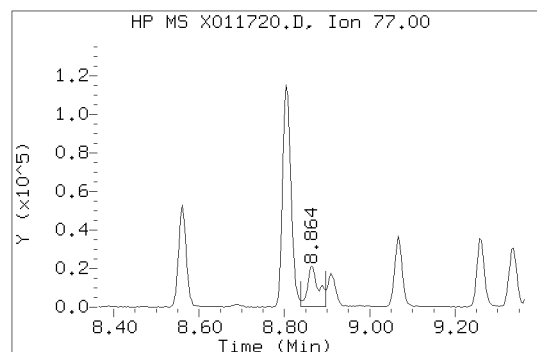
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Reason Code:



AFTER

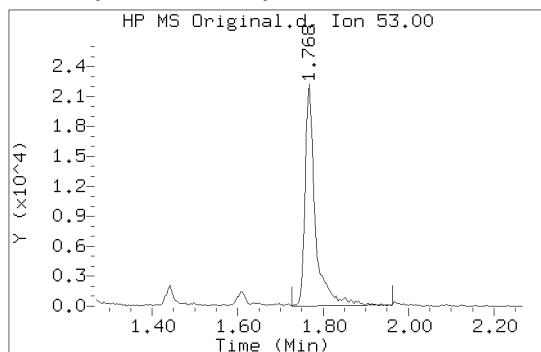
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25-Jan-2023
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pham



Chloroprene (126-99-8)

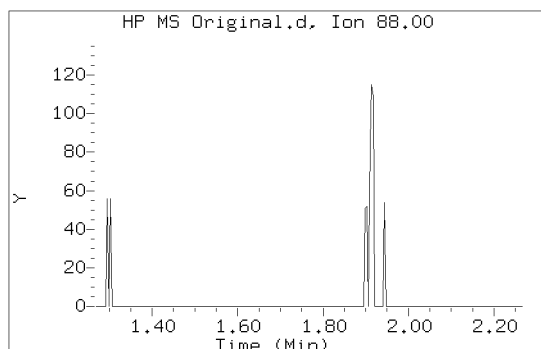
BEFORE

MASS
53
AREA
37957
HEIGHT
22231
25-Jan-2023
10:03
linh
pham



BEFORE

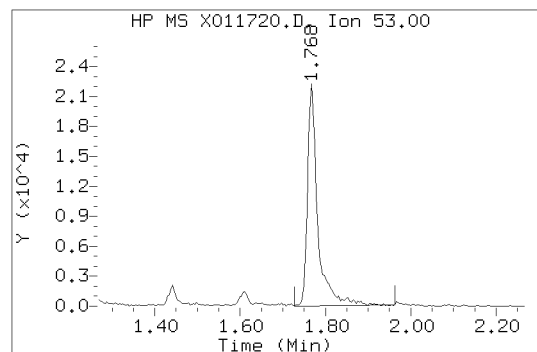
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AREA
0
HEIGHT
0
25-Jan-2023
10:03
linh
pham



AFTER

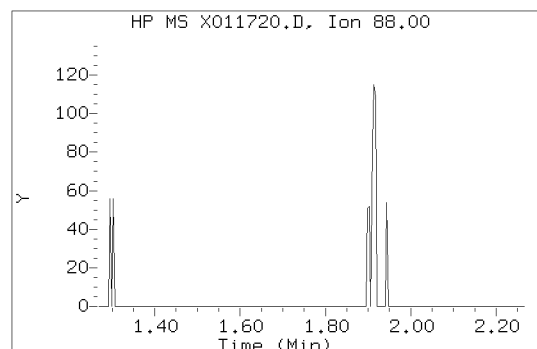
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53
AREA
37957
HEIGHT
22231
25-Jan-2023
10:03
linh
pham

Reason Code:



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Jan-2023
10:03
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011723.D Page 1
 Report Date: 25-Jan-2023 10:03

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011723.D
 Lab Smp Id: CCV-END Client Smp ID: CCV-END
 Inj Date : 17-JAN-2023 18:01
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV-END;CCV-END;2;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230117.b\8260W.m
 Meth Date : 25-Jan-2023 10:03 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 22 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)	454603	50.0000		
135 1,4-Dioxane	88		5.595	5.595	(1.339)	47534	1000.00	1143.86	
140 1,3-Butadiene	54		1.160	1.160	(0.278)	141543	50.0000	45.36	
25 Methacrylonitrile	41		3.818	3.818	(0.914)	172133	50.0000	53.47	
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)	568708	1000.00	1112.21	
13 Acetonitrile	39		2.195	2.195	(0.525)	214846	500.000	519.27	
14 Allyl Chloride	41		2.195	2.195	(0.525)	393763	50.0000	49.96	
4 Propionitrile	54		3.645	3.645	(0.873)	252087	500.000	543.45	
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)	75588	50.0000	53.14	
194 Acetaldehyde	44		1.209	1.209	(0.289)	89344	200.000	323.09	
23 Chloroprene	53		1.771	1.771	(0.424)	65010	50.0000	42.05(M)	
130 Ethyl Acetate	43		3.649	3.649	(0.873)	203546	50.0000	57.37	
40 Methyl Methacrylate	41		5.602	5.602	(1.341)	170834	50.0000	55.11	
49 Ethyl Methacrylate	69		6.708	6.708	(1.352)	182182	50.0000	56.56	
131 Methyl Acrylate	55		3.679	3.679	(0.881)	209560	50.0000	67.89	
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)	131288	50.0000	41.36	
3 Chloromethane	50		1.074	1.074	(0.257)	185740	50.0000	45.37	
5 Vinyl Chloride	62		1.141	1.141	(0.273)	184217	50.0000	46.38	
6 Bromomethane	94		1.336	1.336	(0.320)	137091	50.0000	45.79	
7 Chloroethane	64		1.400	1.400	(0.335)	123844	50.0000	44.80	



8 Trichlorofluoromethane	101	1.557	1.557 (0.373)	273472	50.0000	49.20
9 Acrolein	56	1.441	1.441 (0.345)	27177	100.000	87.76

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011723.D Page 2
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
10 Acetone	43	1.966	1.966	(0.471)	148203	100.000	116.19
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	163826	50.0000	47.48
15 Iodomethane	142	2.022	2.022	(0.484)	434762	100.000	95.92
16 Acrylonitrile	53	2.528	2.528	(0.605)	128879	100.000	110.13
17 Methylene Chloride	84	2.300	2.300	(0.550)	210102	50.0000	44.39
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	553693	50.0000	49.02
19 Carbon Disulfide	76	2.067	2.067	(0.495)	846025	100.000	93.72
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	181679	50.0000	47.04
21 Vinyl Acetate	43	2.993	2.993	(0.716)	960193	100.000	96.85
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	315168	50.0000	46.50
24 2-Butanone	43	3.570	3.570	(0.855)	153270	100.000	112.87
26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	259379	50.0000	45.07
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	210845	50.0000	44.86
28 Chloroform	83	3.904	3.904	(0.935)	354336	50.0000	46.65
29 Bromochloromethane	128	3.788	3.788	(0.907)	114868	50.0000	44.64
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	214507	50.0000	49.13
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	293017	50.0000	48.62
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	247328	50.0000	50.93
33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	282935	50.0000	50.48
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	243030	50.0000	46.86
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	237547	50.0000	51.55
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	684003	50.0000	
37 Benzene	78	4.511	4.511	(0.909)	785813	50.0000	48.10
38 Trichloroethene	130	5.205	5.205	(1.049)	228040	50.0000	49.22
39 Bromodichloromethane	83	5.726	5.726	(1.154)	285728	50.0000	46.61
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	206639	100.000	118.48
42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	206117	50.0000	47.43
44 Dibromomethane	93	5.550	5.550	(1.119)	140951	50.0000	47.72
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	390147	100.000	110.78
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	350114	50.0000	48.63
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	658867	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	806550	50.0000	49.53
50 Toluene	91	6.446	6.446	(0.841)	865085	50.0000	47.50
51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	302072	50.0000	50.56
52 2-Hexanone	43	7.087	7.087	(0.924)	279221	100.000	116.53
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	175405	50.0000	48.01
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	351231	50.0000	48.84
55 Dibromochloromethane	129	7.173	7.173	(0.935)	254942	50.0000	48.34
56 Tetrachloroethene	164	6.925	6.925	(0.903)	177934	50.0000	47.22
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	231559	50.0000	50.69
58 1-Chlorohexane	55	7.694	7.694	(1.551)	158967	50.0000	48.09
59 Chlorobenzene	112	7.694	7.694	(1.003)	597866	50.0000	46.28
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	228309	50.0000	47.49
61 Ethylbenzene	106	7.799	7.799	(1.017)	292432	50.0000	48.06
62 m,p-Xylenes	106	7.904	7.904	(1.031)	743451	100.000	94.78
63 o-Xylene	106	8.241	8.241	(1.075)	366497	50.0000	47.34
64 Styrene	104	8.256	8.256	(1.077)	649814	50.0000	50.07
66 Bromoform	173	8.410	8.410	(1.097)	184192	50.0000	50.42
67 Isopropylbenzene	105	8.560	8.560	(1.116)	884708	50.0000	50.01
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	288657	50.0000	46.71
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	310765	50.0000	51.06
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	387695	50.0000	



71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)	223403	50.0000	51.78(M)
73 n-Propylbenzene	91	8.912	8.912 (0.922)	1049763	50.0000	48.88



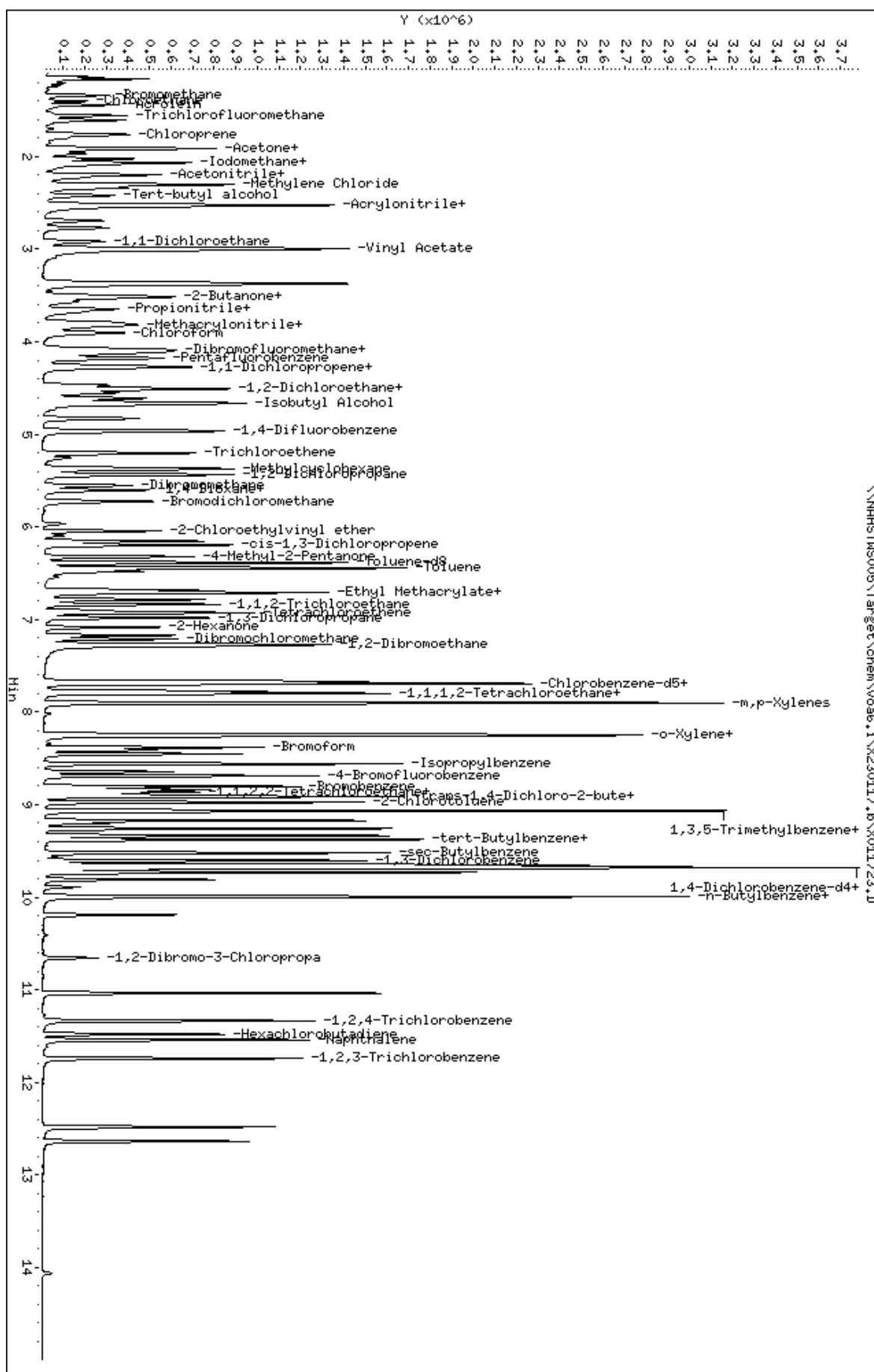
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230117.b\X011723.D Page 3
 Report Date: 25-Jan-2023 10:03

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
74 Bromobenzene	156	8.803	8.803	(0.911)	286291	50.0000	45.00
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	777532	50.0000	49.01
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	657640	50.0000	46.66
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	773090	50.0000	48.12
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	633966	50.0000	48.81
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	799077	50.0000	47.87
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	875721	50.0000	50.68
82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	793735	50.0000	51.26
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	501370	50.0000	47.49
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	536401	50.0000	46.56
87 n-Butylbenzene	91	9.992	9.992	(1.034)	700378	50.0000	47.04
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	514272	50.0000	47.29
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	51011	50.0000	51.63
90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	352022	50.0000	51.30
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	137826	50.0000	45.36
92 Naphthalene	128	11.540	11.540	(1.194)	825380	50.0000	52.86
93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	334489	50.0000	50.89
M 94 1,2-Dichloroethylene (total)	96				392524	100.000	(a)
141 Cyclohexane	56	4.121	4.121	(0.987)	216921	50.0000	47.40
138 Freon TF	101	1.913	1.913	(0.458)	153320	50.0000	45.94
147 Methylcyclohexane	55	5.377	5.377	(1.084)	467227	50.0000	55.80
146 Methyl Acetate	43	2.228	2.228	(0.533)	113351	50.0000	55.41
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	375108	1000.00	1191.64
149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	204190	1000.00	1242.07

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa6.1\X230117.b\X011723.D
 Date : 17-JAN-2023 18:01
 Client ID: CCV-END
 Sample Info: CCV-END;CCV-END;2;;
 Purge Volume: 5.0
 Column phase: DB624

Instrument: voa6.1
 Operator: PC
 Column diameter: 0.18

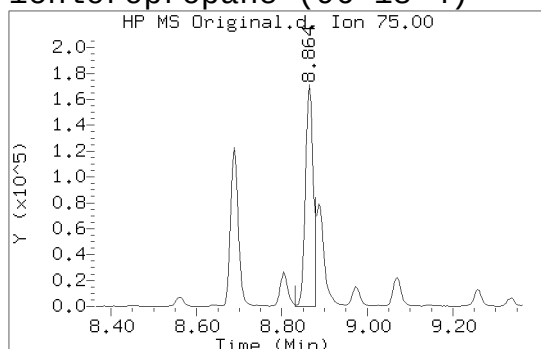


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Inj Date : 17-JAN-2023 18:01
InstruID : voa6.i
LabSampID : CCV-END

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

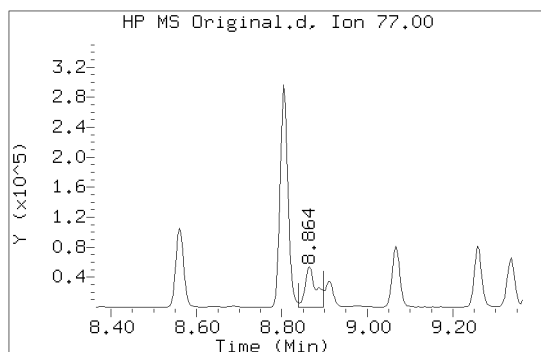
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AREA
223403
HEIGHT
171095
25-Jan-2023
10:03
linh



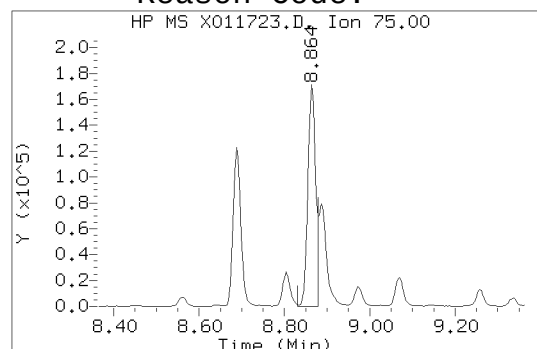
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54076
25-Jan-2023
10:03
linh
pham



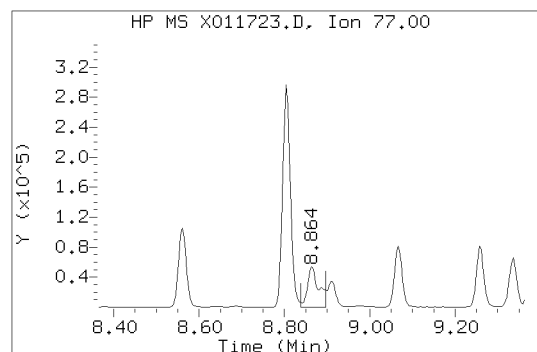
AFTER

MASS
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AREA
223403
HEIGHT
171095
25-Jan-2023
10:03
linh



AFTER

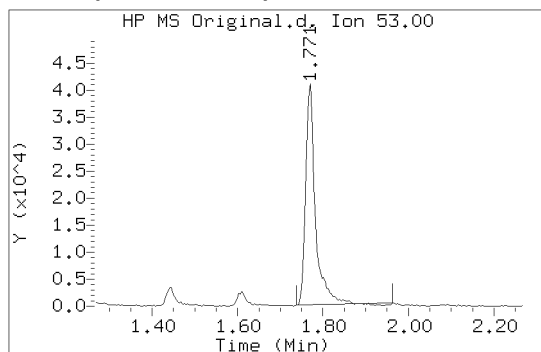
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HEIGHT
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25-Jan-2023
10:03
linh
pham



Chloroprene (126-99-8)

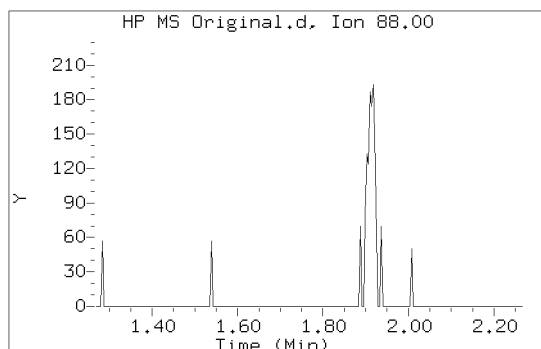
BEFORE

MASS
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AREA
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HEIGHT
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25-Jan-2023
10:03
linh
pham



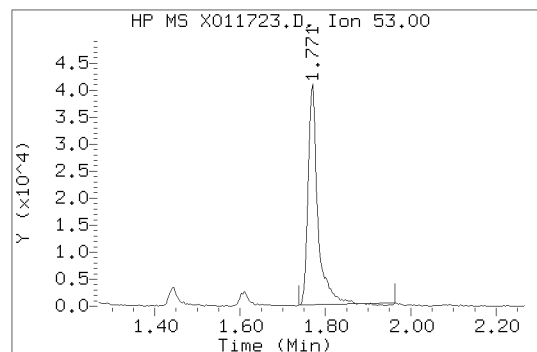
BEFORE

MASS
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AREA
0
HEIGHT
0
25-Jan-2023
10:03
linh
pham



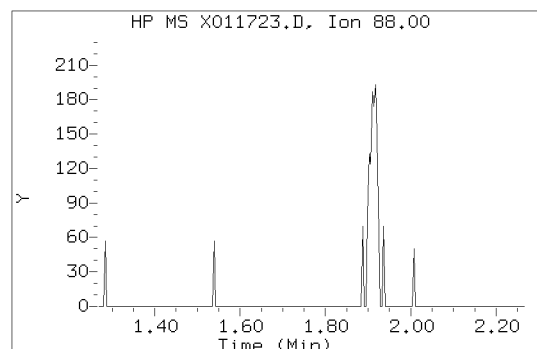
AFTER

MASS
53
AREA
65010
HEIGHT
40875
25-Jan-2023
10:03
linh
pham



AFTER

MASS
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AREA
0
HEIGHT
0
25-Jan-2023
10:03
linh
pham





Raw Data VOA6 426067

Volatiles by EPA 8260

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D Page 1
 Report Date: 18-Jan-2023 12:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 18-JAN-2023 11:06
 Operator : PC Inst ID: voa6.i
 Smp Info : BFB;BFB;3;;BFB
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\bfb.m
 Meth Date : 01-Dec-2022 12:59 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	FINAL				
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
8.687	8.889	(0.000)	95	62312			0.00-	100.00	100.00
8.687	8.889	(0.000)	50	12562			15.00-	40.00	20.16
8.687	8.889	(0.000)	75	31304			30.00-	60.00	50.24
8.687	8.889	(0.000)	96	3715			5.00-	9.00	5.96
8.687	8.889	(0.000)	173	307			0.00-	2.00	0.55
8.687	8.889	(0.000)	174	55672			50.00-	0.00	89.34
8.687	8.889	(0.000)	175	4556			5.00-	9.00	8.18
8.687	8.889	(0.000)	176	52904			95.00-	101.00	95.03
8.687	8.889	(0.000)	177	3924			5.00-	9.00	7.42



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.16
75	30.00 - 60.00% of mass 95	50.24
96	5.00 - 9.00% of mass 95	5.96
173	Less than 2.00% of mass 174	0.49 (0.55)
174	Greater than 50.00% of mass 95	89.34
175	5.00 - 9.00% of mass 174	7.31 (8.18)
176	95.00 - 101.00% of mass 174	84.90 (95.03)
177	5.00 - 9.00% of mass 176	6.30 (7.42)

Data File: X011801.D
 Spectrum: Scan 2159 (8.68), Background Scan 2154
 Location of Maximum: 95.00
 Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	666	69.00	4263	104.80	30	143.90	52
37.00	3305	72.00	635	106.60	279	144.90	121
38.00	2527	73.00	3196	108.80	60	145.80	95
44.10	110	74.00	9996	110.70	152	147.60	76
45.00	588	75.00	31304	111.80	202	148.00	83
45.80	82	75.90	2963	113.00	86	154.60	110
47.20	1109	76.90	295	115.90	291	154.90	128
47.80	518	78.00	74	116.80	253	156.80	139
48.90	2654	78.90	2212	117.70	498	158.90	66
50.00	12562	80.90	2252	118.80	397	160.80	86
51.00	3501	81.90	480	126.70	57	172.60	381
56.00	76	86.80	2832	127.80	323	172.90	307
57.00	2444	87.90	2849	128.70	209	173.90	55672
57.90	16	90.90	87	129.70	252	174.90	4556
59.90	675	91.90	1838	130.80	81	175.90	52904
61.00	3376	92.90	2551	134.80	132	176.90	3924
62.00	3210	94.00	7352	136.60	72	178.00	86
63.00	2266	95.00	62312	137.20	150	186.00	218
64.10	227	96.00	3715	140.90	777		
66.80	134	103.10	73	141.90	113		
68.00	6053	103.90	393	142.90	658		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D

Page 1

Date : 18-JAN-2023 11:06

Client ID: BFB

Instrument: voa6.i

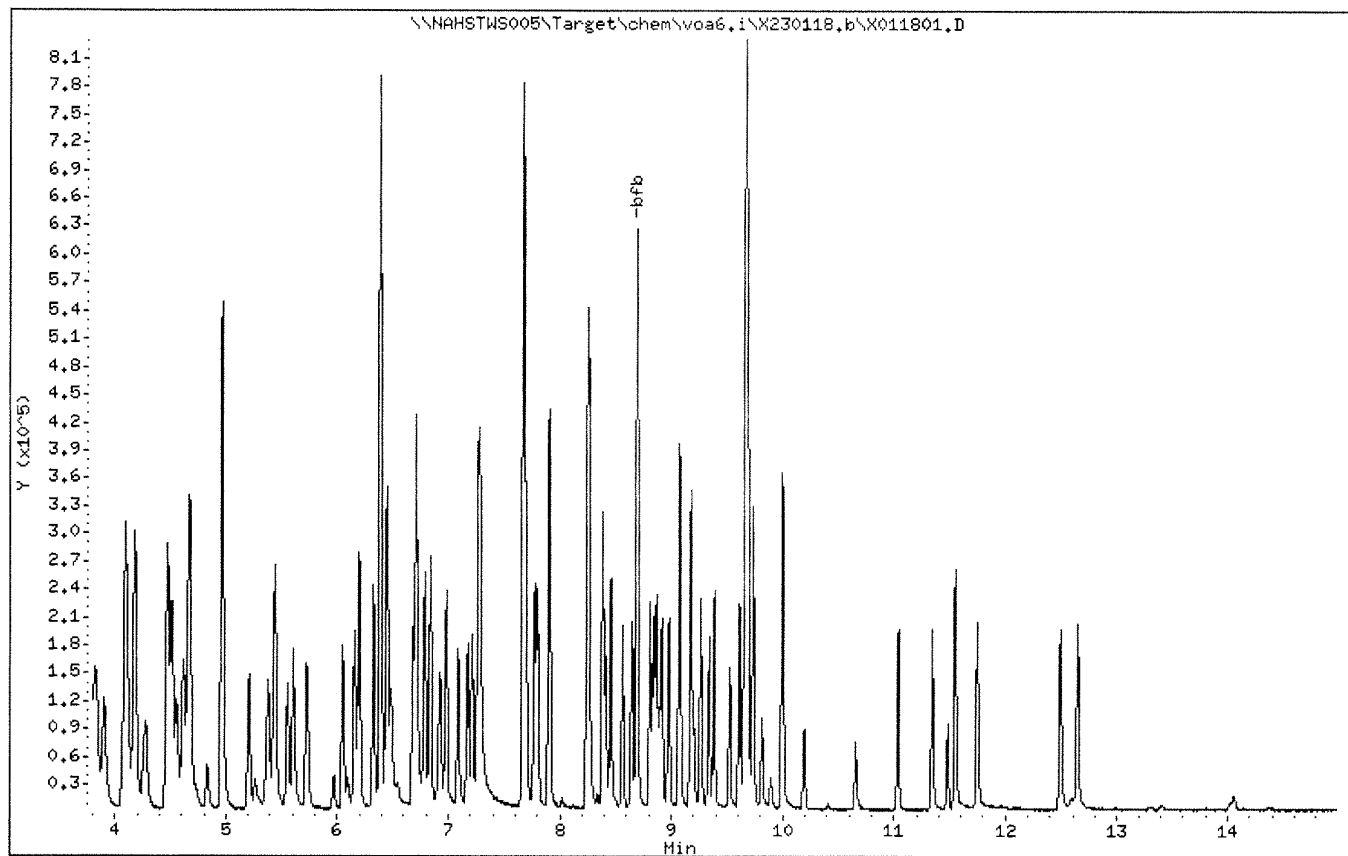
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D

Page 2

Date : 18-JAN-2023 11:06

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

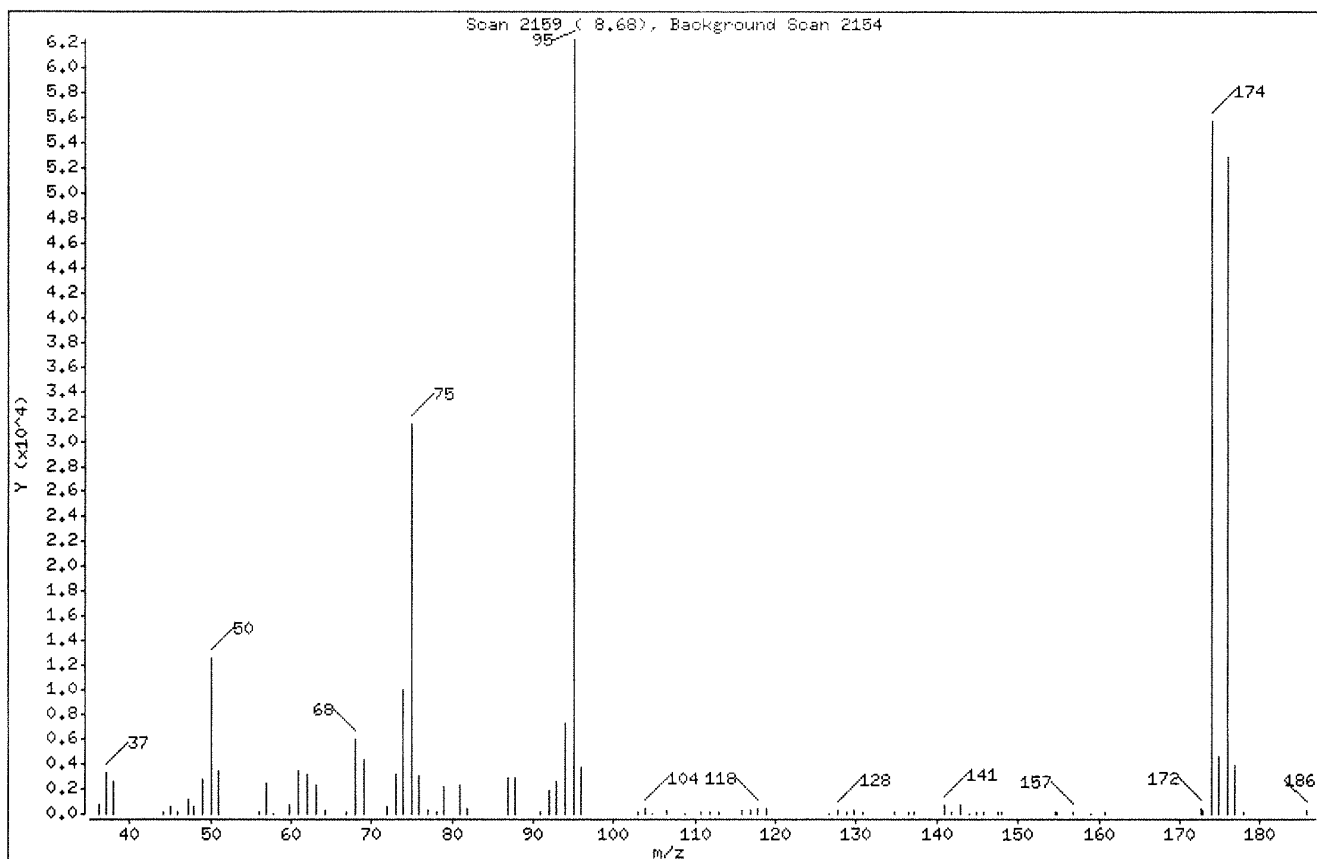
Volume Injected (uL): 2.0

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	20.16
75	30.00 - 60.00% of mass 95	50.24
96	5.00 - 9.00% of mass 95	5.96
173	Less than 2.00% of mass 174	0.49 (0.55)
174	Greater than 50.00% of mass 95	89.34
175	5.00 - 9.00% of mass 174	7.31 (8.18)
176	95.00 - 101.00% of mass 174	84.90 (95.03)
177	5.00 - 9.00% of mass 176	6.30 (7.42)



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D

Page 3

Date : 18-JAN-2023 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: X011801.D

Spectrum: Scan 2159 (8.68), Background Scan 2154

Location of Maximum: 95.00

Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.10	666	69.00	4263	104.80	30	143.90	52
37.00	3305	72.00	635	106.60	279	144.90	121
38.00	2527	73.00	3196	108.80	60	145.80	95
44.10	110	74.00	9996	110.70	152	147.60	76
45.00	588	75.00	31304	111.80	202	148.00	83

45.80	82	75.90	2963	113.00	86	154.60	110
47.20	1109	76.90	295	115.90	291	154.90	128
47.80	518	78.00	74	116.80	253	156.80	139
48.90	2654	78.90	2212	117.70	498	158.90	66
50.00	12562	80.90	2252	118.80	397	160.80	86

51.00	3501	81.90	480	126.70	57	172.60	381
56.00	76	86.80	2832	127.80	323	172.90	307
57.00	2444	87.90	2849	128.70	209	173.90	55672
57.90	16	90.90	87	129.70	252	174.90	4556
59.90	675	91.90	1838	130.80	81	175.90	52904

61.00	3376	92.90	2551	134.80	132	176.90	3924
62.00	3210	94.00	7352	136.60	72	178.00	86
63.00	2266	95.00	62312	137.20	150	186.00	218
64.10	227	96.00	3715	140.90	777		
66.80	134	103.10	73	141.90	113		

68.00	6053	103.90	393	142.90	658		



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D
Inj Date : 18-JAN-2023 11:06
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011803.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011803.D
 Lab Smp Id: CCV Client Smp ID: CCV
 Inj Date : 18-JAN-2023 11:48
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV;CCV;2;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)	489424	50.0000		
135 1,4-Dioxane	88		5.598	5.598	(1.340)	46942	1000.00	1049.25	
140 1,3-Butadiene	54		1.160	1.160	(0.278)	146309	50.0000	43.55	
25 Methacrylonitrile	41		3.814	3.814	(0.913)	174531	50.0000	50.36	
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)	586950	1000.00	1066.22	
13 Acetonitrile	39		2.194	2.194	(0.525)	216646	500.000	486.36	
14 Allyl Chloride	41		2.194	2.194	(0.525)	409229	50.0000	48.23	
4 Propionitrile	54		3.645	3.645	(0.873)	245492	500.000	491.58	
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)	79972	50.0000	53.18	
194 Acetaldehyde	44		1.209	1.209	(0.289)	67587	200.000	220.09	
23 Chloroprene	53		1.767	1.767	(0.423)	70567	50.0000	42.40(M)	
130 Ethyl Acetate	43		3.649	3.649	(0.873)	208091	50.0000	54.48	
40 Methyl Methacrylate	41		5.602	5.602	(1.341)	174845	50.0000	52.39	
49 Ethyl Methacrylate	69		6.708	6.708	(1.351)	177350	50.0000	52.03	
139 Diethyl ether	59		1.752	1.752	(0.419)	147672	50.0000	45.15	
142 Tetrahydrofuran	42		3.840	3.840	(0.919)	64460	100.000	106.13	
156 Diisopropyl ether	45		2.997	2.997	(0.717)	602379	50.0000	47.44	
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)	868613	50.0000	43.57	
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)	160887	50.0000	47.02	
3 Chloromethane	50		1.074	1.074	(0.257)	197643	50.0000	44.87	



5 Vinyl Chloride	62	1.141	1.141 (0.273)	192196	50.0000	44.95
6 Bromomethane	94	1.336	1.336 (0.320)	136489	50.0000	42.48

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011803.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	127931	50.0000	42.99
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	266667	50.0000	44.57
9 Acrolein	56	1.441	1.441	(0.345)	27093	100.000	81.48
10 Acetone	43	1.970	1.970	(0.472)	148497	100.000	108.13
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	164342	50.0000	44.24
15 Iodomethane	142	2.022	2.022	(0.484)	429078	100.000	88.48
16 Acrylonitrile	53	2.528	2.528	(0.605)	131992	100.000	104.77
17 Methylene Chloride	84	2.299	2.299	(0.550)	219621	50.0000	43.10
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	580541	50.0000	47.74
19 Carbon Disulfide	76	2.067	2.067	(0.495)	860805	100.000	88.57
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	184592	50.0000	44.40
21 Vinyl Acetate	43	2.993	2.993	(0.716)	1159587	100.000	108.64
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	328053	50.0000	44.96
24 2-Butanone	43	3.570	3.570	(0.855)	155742	100.000	106.70
26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	286311	50.0000	46.21
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	221783	50.0000	43.83
28 Chloroform	83	3.904	3.904	(0.935)	373028	50.0000	45.61
29 Bromochloromethane	128	3.788	3.788	(0.907)	120171	50.0000	43.38
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	222773	50.0000	47.39
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	289952	50.0000	44.69
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	243664	50.0000	47.42
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	304343	50.0000	51.32
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	235794	50.0000	42.97
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	250267	50.0000	50.45
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	723703	50.0000	
37 Benzene	78	4.507	4.507	(0.908)	807196	50.0000	46.70
38 Trichloroethene	130	5.205	5.205	(1.048)	221791	50.0000	45.24
39 Bromodichloromethane	83	5.726	5.726	(1.153)	302821	50.0000	46.69
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	237285	100.000	128.59
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	217128	50.0000	47.23
44 Dibromomethane	93	5.553	5.553	(1.119)	146615	50.0000	46.92
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	404653	100.000	108.68
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	375201	50.0000	49.25
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	696562	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	848410	50.0000	49.29
50 Toluene	91	6.445	6.445	(0.841)	888559	50.0000	46.15
51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	327289	50.0000	51.77
52 2-Hexanone	43	7.083	7.083	(0.924)	289924	100.000	114.45
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	182377	50.0000	47.21
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	367873	50.0000	48.38
55 Dibromochloromethane	129	7.173	7.173	(0.935)	267957	50.0000	48.06
56 Tetrachloroethene	164	6.925	6.925	(0.903)	174876	50.0000	43.89
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	240796	50.0000	49.86
58 1-Chlorohexane	55	7.694	7.694	(1.550)	161130	50.0000	46.07
59 Chlorobenzene	112	7.694	7.694	(1.003)	623465	50.0000	45.65
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	238993	50.0000	47.02
61 Ethylbenzene	106	7.799	7.799	(1.017)	302984	50.0000	47.10
62 m,p-Xylenes	106	7.904	7.904	(1.031)	775386	100.000	93.50
63 o-Xylene	106	8.241	8.241	(1.075)	382264	50.0000	46.70
64 Styrene	104	8.260	8.260	(1.077)	686373	50.0000	50.03
66 Bromoform	173	8.410	8.410	(1.097)	194509	50.0000	50.36
67 Isopropylbenzene	105	8.560	8.560	(1.116)	893634	50.0000	47.79



68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	314357	50.0000	47.65
\$ 69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	332267	50.0000	51.64



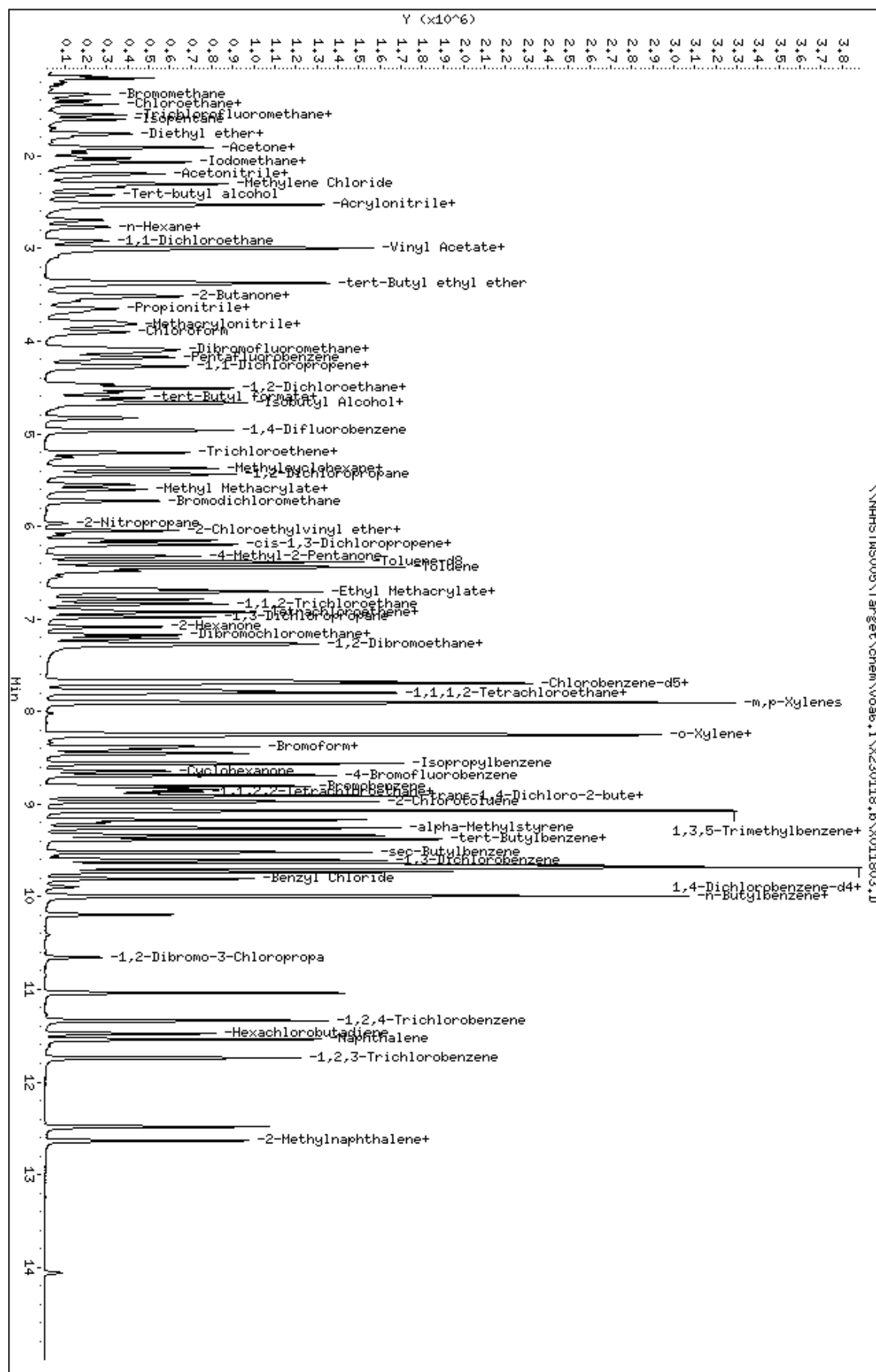
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011803.D Page 3
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)		413903	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863 (0.917)		231981	50.0000	50.36(M)
73 n-Propylbenzene	91	8.912	8.912 (0.922)		1066657	50.0000	46.52
74 Bromobenzene	156	8.803	8.803 (0.911)		311504	50.0000	45.87
75 1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)		806932	50.0000	47.64
76 2-Chlorotoluene	91	8.972	8.972 (0.929)		700662	50.0000	46.57
77 4-Chlorotoluene	91	9.069	9.069 (0.939)		825983	50.0000	48.16
78 tert-Butylbenzene	119	9.336	9.336 (0.966)		632476	50.0000	45.62
79 1,2,4-Trimethylbenzene	105	9.377	9.377 (0.971)		841522	50.0000	47.22
81 sec-Butylbenzene	105	9.519	9.519 (0.985)		854852	50.0000	46.34
82 p-Isopropyltoluene	119	9.651	9.651 (0.999)		792103	50.0000	47.92
83 1,3-Dichlorobenzene	146	9.606	9.606 (0.994)		538443	50.0000	47.77
84 1,4-Dichlorobenzene	146	9.680	9.680 (1.002)		583310	50.0000	47.42
87 n-Butylbenzene	91	9.995	9.995 (1.035)		698648	50.0000	44.07
88 1,2-Dichlorobenzene	146	9.992	9.992 (1.034)		549480	50.0000	47.33
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655 (1.103)		53893	50.0000	51.09
90 1,2,4-Trichlorobenzene	180	11.337	11.337 (1.173)		368136	50.0000	50.25
91 Hexachlorobutadiene	225	11.480	11.480 (1.188)		134386	50.0000	41.46
92 Naphthalene	128	11.540	11.540 (1.194)		890909	50.0000	53.45
93 1,2,3-Trichlorobenzene	180	11.742	11.742 (1.215)		345239	50.0000	49.20
M 94 1,2-Dichloroethylene (total)	96				406375	100.000	(a)
141 Cyclohexane	56	4.118	4.118 (0.986)		204295	50.0000	41.62
138 Freon TF	101	1.910	1.910 (0.457)		147042	50.0000	40.92
147 Methylcyclohexane	55	5.377	5.377 (1.083)		452124	50.0000	51.03
146 Methyl Acetate	43	2.224	2.224 (0.533)		110075	50.0000	49.98
148 Tert-Butyl alcohol	59	2.423	2.423 (0.580)		378966	1000.00	1118.24
149 Isopropyl Alcohol	45	2.086	2.086 (0.499)		206959	1000.00	1169.35

QC Flag Legend

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





\\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011803.D

Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011803.D
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 Sample Info: CCV\CCV\21;
 Purge Volume: 5.0
 Column phase: DB624

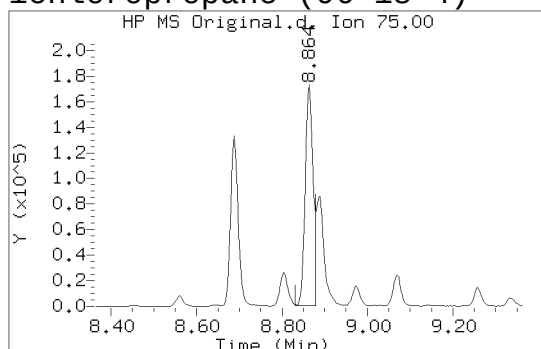
Instrument: voa6.i
 Operator: PC
 Column diameter: 0.18

Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X230118.b\\X011803.D
Inj Date : 18-JAN-2023 11:48
InstruID : voa6.i
LabSampID : CCV

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

BEFORE

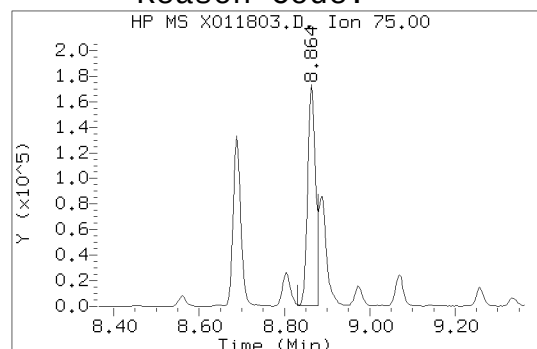
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173029
25-Jan-2023
10:05
linh



AFTER

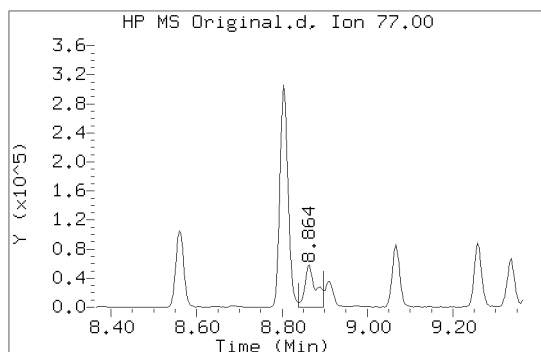
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25-Jan-2023
10:05
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Reason Code:



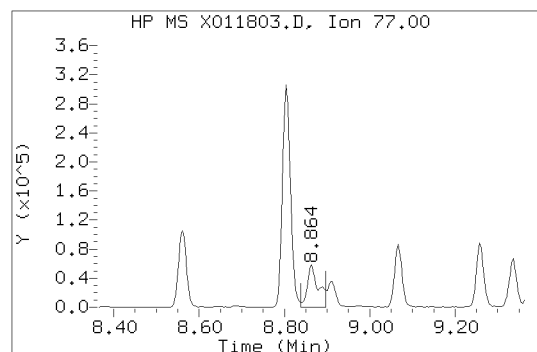
BEFORE

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25-Jan-2023
10:05
linh
pham



AFTER

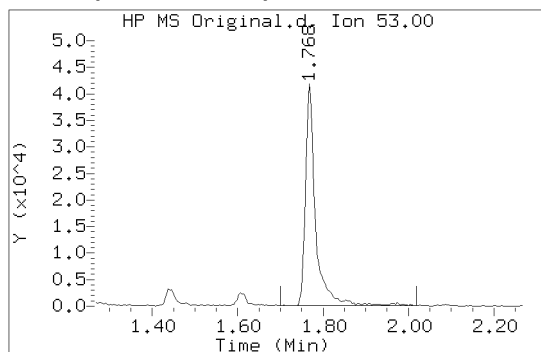
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108866
HEIGHT
58467
25-Jan-2023
10:05
linh
pham



Chloroprene (126-99-8)

BEFORE

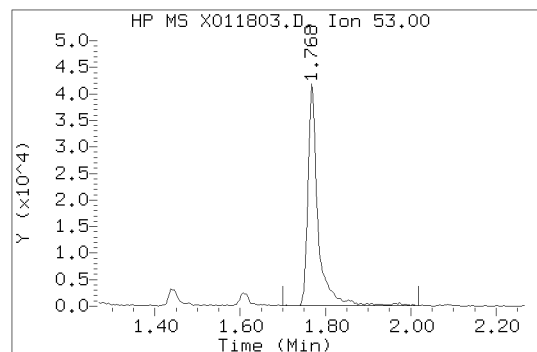
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HEIGHT
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25-Jan-2023
10:05
linh
pham



AFTER

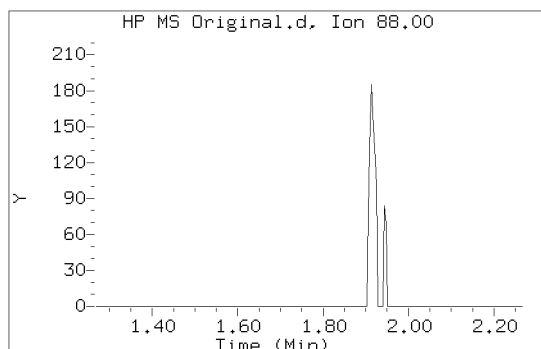
MASS
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HEIGHT
41782
25-Jan-2023
10:05
linh
pham

Reason Code:



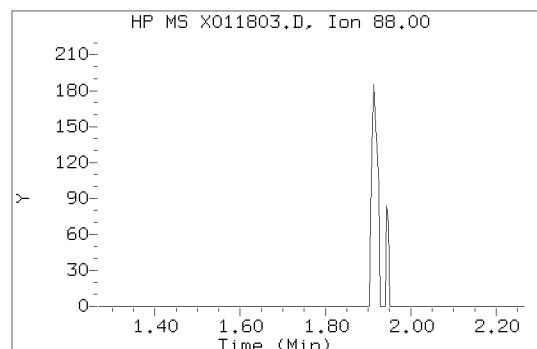
BEFORE

MASS
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AREA
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HEIGHT
0
25-Jan-2023
10:05
linh
pham



AFTER

MASS
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AREA
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HEIGHT
0
25-Jan-2023
10:05
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011804.D Page 1
 Report Date: 18-Jan-2023 21:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011804.D
 Lab Smp Id: CCB Client Smp ID: CCB
 Inj Date : 18-JAN-2023 12:09
 Operator : PC Inst ID: voa6.i
 Smp Info : CCB;CCB;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\nahstws005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 18-Jan-2023 17:04 pcabasca Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7051

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Uf}/\text{Vo}) * 1 * \text{CpndVariable}$

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.177	(1.000)	547114	50.0000	
\$ 30 Dibromofluoromethane	113	4.099	4.095	(0.982)	239447	45.5649	45.56
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	268428	48.4189	48.41
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	768486	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	671866	50.0000	
\$ 48 Toluene-d8	98	6.386	6.385	(0.833)	893916	53.8429	53.84
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	302063	48.6768	48.67
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	341638	50.0000	



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011805.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011805.D
 Lab Smp Id: VLCSW-230118 Client Smp ID: VLCSW-230118
 Inj Date : 18-JAN-2023 12:30
 Operator : PC Inst ID: voa6.i
 Smp Info : VLCSW-230118;VLCSW-230118;3;;LCS
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		473146	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		19933	460.873	460.87(a)
140 1,3-Butadiene	54		1.164	1.160	(0.279)		64452	19.8480	19.84
25 Methacrylonitrile	41		3.821	3.814	(0.915)		71540	21.3535	21.35
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		258525	485.780	485.78
13 Acetonitrile	39		2.194	2.194	(0.525)		93699	217.590	217.58
14 Allyl Chloride	41		2.194	2.194	(0.525)		174469	21.2728	21.27
4 Propionitrile	54		3.649	3.645	(0.873)		108874	225.515	225.51(a)
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)		31877	22.0843	22.08
194 Acetaldehyde	44		1.209	1.209	(0.289)		71526	243.145	243.14
23 Chloroprene	53		1.771	1.767	(0.424)		29893	18.5814	18.58(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		91604	24.8112	24.81
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		75429	23.3804	23.38
49 Ethyl Methacrylate	69		6.708	6.708	(1.351)		75091	22.6980	22.69
139 Diethyl ether	59		1.752	1.752	(0.419)		63171	19.9815	19.98
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		26312	42.9830	42.98
156 Diisopropyl ether	45		2.993	2.997	(0.716)		252405	20.5645	20.56
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)		385496	20.9467	20.94
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		58421	17.9081	17.90
3 Chloromethane	50		1.074	1.074	(0.257)		82950	20.7316	20.73



5 Vinyl Chloride	62	1.141	1.141 (0.273)	81246	19.6569	19.65
6 Bromomethane	94	1.336	1.336 (0.320)	61143	20.6326	20.63

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011805.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	55014	19.1231	19.12
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	120961	20.9131	20.91
9 Acrolein	56	1.445	1.441	(0.346)	11891	38.5325	38.53
10 Acetone	43	1.970	1.970	(0.472)	69517	52.3463	52.34(M)
11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	72740	20.2564	20.25
15 Iodomethane	142	2.022	2.022	(0.484)	172450	39.4774	39.47
16 Acrylonitrile	53	2.532	2.528	(0.606)	57328	47.0707	47.07
17 Methylene Chloride	84	2.299	2.299	(0.550)	101585	20.6237	20.62
18 Methyl tert-butyl ether	73	2.532	2.528	(0.606)	247454	21.0528	21.05
19 Carbon Disulfide	76	2.067	2.067	(0.495)	387529	41.2472	41.24
20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	80463	20.0209	20.02
21 Vinyl Acetate	43	2.993	2.993	(0.716)	491828	47.6668	47.66
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	145321	20.6032	20.60
24 2-Butanone	43	3.578	3.570	(0.856)	63690	46.8847	46.88
26 2,2-Dichloropropane	77	3.506	3.503	(0.839)	129540	21.6309	21.63
27 cis-1,2-Dichloroethene	96	3.529	3.521	(0.845)	96286	19.6864	19.68
28 Chloroform	83	3.904	3.904	(0.935)	162386	20.5410	20.54
29 Bromochloromethane	128	3.791	3.788	(0.908)	52354	19.5502	19.55
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	222171	48.8989	48.89
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	131770	21.0084	21.00
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	112059	22.4675	22.46
33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	131619	22.8661	22.86
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	107958	20.2698	20.26
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	259864	54.1697	54.16
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	702531	50.0000	
37 Benzene	78	4.511	4.507	(0.909)	351961	20.9797	20.97
38 Trichloroethene	130	5.205	5.205	(1.048)	99963	21.0082	21.00
39 Bromodichloromethane	83	5.726	5.726	(1.153)	128152	20.3545	20.35
41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	88983	49.6783	49.67
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	93347	20.9177	20.91
44 Dibromomethane	93	5.553	5.553	(1.119)	64169	21.1554	21.15
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	169847	47.5247	47.52
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	156653	21.1860	21.18
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	668637	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	822274	49.7669	49.76
50 Toluene	91	6.445	6.445	(0.841)	389135	21.0556	21.05
51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	132682	21.6226	21.62
52 2-Hexanone	43	7.086	7.083	(0.924)	123626	50.8427	50.84
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	78410	21.1480	21.14
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	156640	21.4637	21.46
55 Dibromochloromethane	129	7.176	7.173	(0.936)	111717	20.8769	20.87
56 Tetrachloroethene	164	6.925	6.925	(0.903)	82751	21.6407	21.64
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	103028	22.2250	22.22
58 1-Chlorohexane	55	7.694	7.694	(1.550)	81584	24.0299	24.02
59 Chlorobenzene	112	7.694	7.694	(1.003)	267888	20.4359	20.43
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	101325	20.7702	20.77
61 Ethylbenzene	106	7.799	7.799	(1.017)	134198	21.7329	21.73
62 m,p-Xylenes	106	7.904	7.904	(1.031)	343058	43.0970	43.09
63 o-Xylene	106	8.241	8.241	(1.075)	167173	21.2781	21.27
64 Styrene	104	8.260	8.260	(1.077)	287153	21.8059	21.80
66 Bromoform	173	8.410	8.410	(1.097)	76199	20.5542	20.55
67 Isopropylbenzene	105	8.560	8.560	(1.116)	412165	22.9626	22.96



68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	130567	21.4350	21.43
\$ 69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	308398	49.9360	49.93



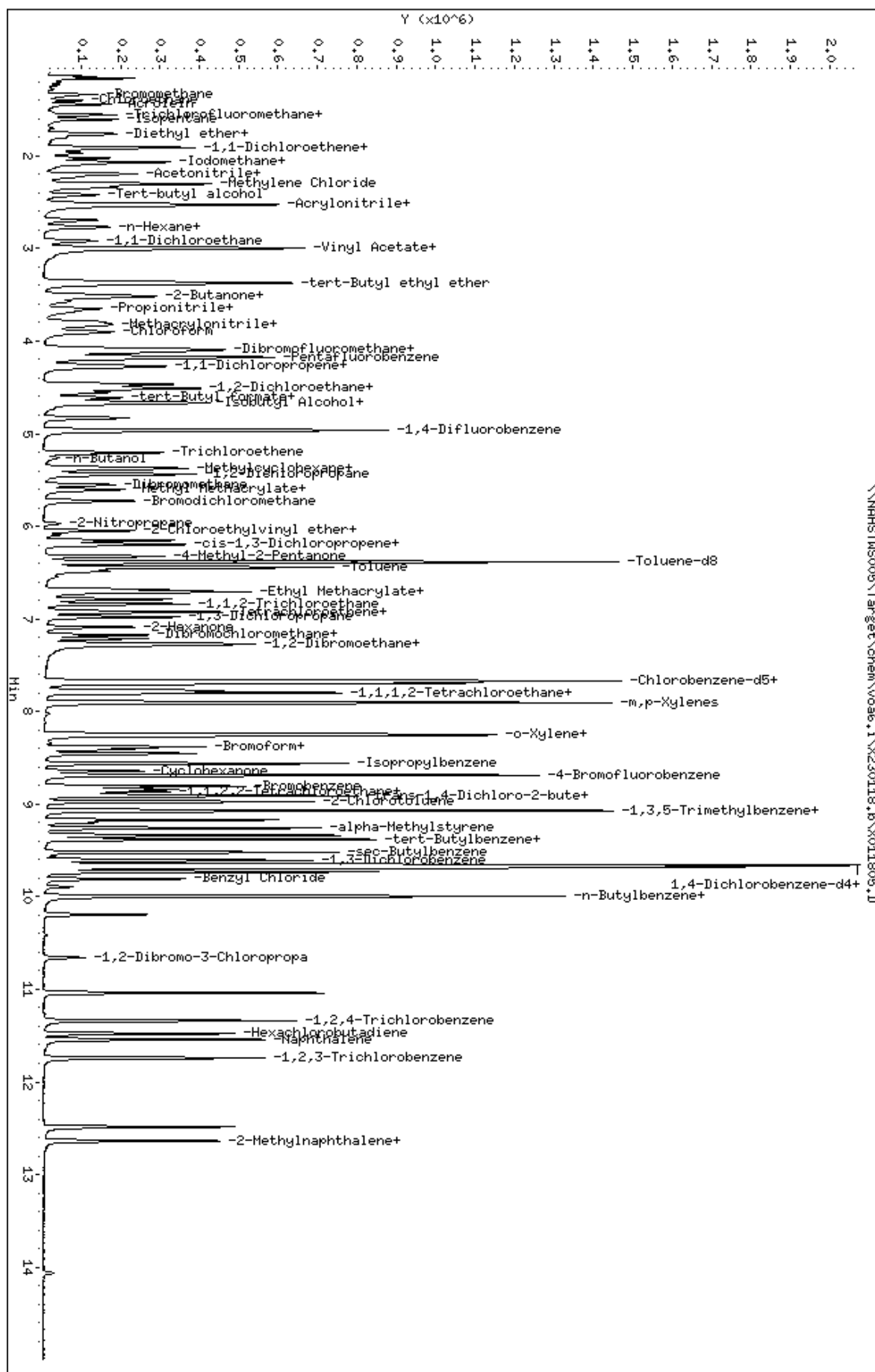
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011805.D Page 3
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	382174	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	100266	23.5782	23.57(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	496223	23.4409	23.44
74 Bromobenzene	156	8.807	8.803	(0.912)	128739	20.5321	20.53
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	365335	23.3616	23.36
76 2-Chlorotoluene	91	8.976	8.972	(0.929)	306104	22.0356	22.03
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	359374	22.6935	22.69
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	298059	23.2842	23.28
79 1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	374145	22.7380	22.73
81 sec-Butylbenzene	105	9.523	9.519	(0.986)	414704	24.3484	24.34
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	377102	24.7079	24.70
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	232591	22.3495	22.34
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	248492	21.8812	21.88
87 n-Butylbenzene	91	9.995	9.995	(1.035)	342035	24.2031	24.20
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	232353	21.6786	21.67
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	21156	21.7762	21.77
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	174691	25.8264	25.82
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	79982	26.8050	26.80
92 Naphthalene	128	11.544	11.540	(1.195)	393349	25.5589	25.55
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	164302	25.3623	25.36
M 94 1,2-Dichloroethylene (total)	96				176749	39.7074	39.70
M 95 Xylenes (total)	106				510231	64.3751	64.37
141 Cyclohexane	56	4.118	4.118	(0.986)	107777	23.2895	23.28
138 Freon TF	101	1.913	1.910	(0.458)	72249	20.8019	20.80
147 Methylcyclohexane	55	5.381	5.377	(1.084)	204648	23.7975	23.79
146 Methyl Acetate	43	2.228	2.224	(0.533)	52659	24.7336	24.73
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	160861	490.996	490.99
149 Isopropyl Alcohol	45	2.090	2.086	(0.500)	86867	507.698	507.69

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011805.D
 Date: 18-JAN-2023 12:30
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 Sample Info: WLCMS-230118;WLCMS-230118;3;LCS
 Purge Volume: 5.0
 Column phase: DB624

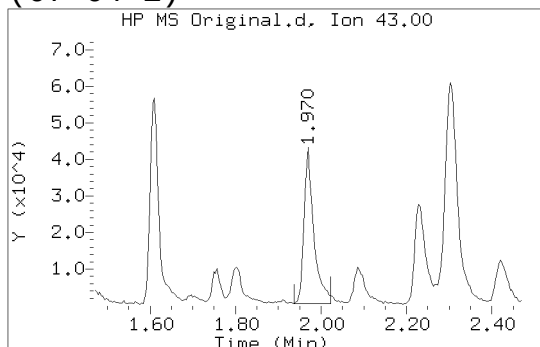
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 Instrument: voa6.i
 Column diameter: 0.18



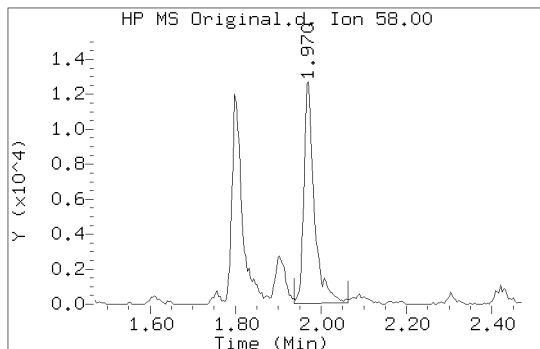
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Inj Date : 18-JAN-2023 12:30
InstruID : voa6.i
LabSampID : VLCSW-230118

Acetone (67-64-1)**BEFORE**

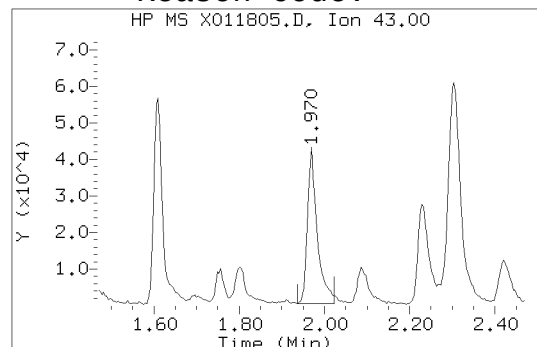
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25-Jan-2023
10:05
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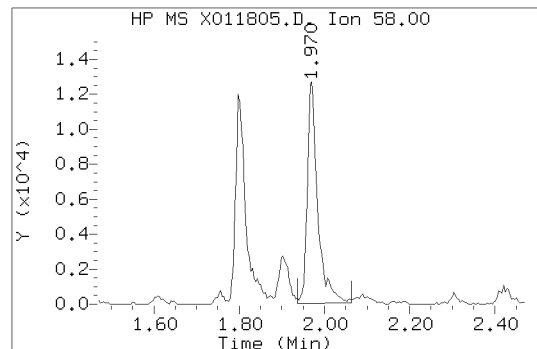
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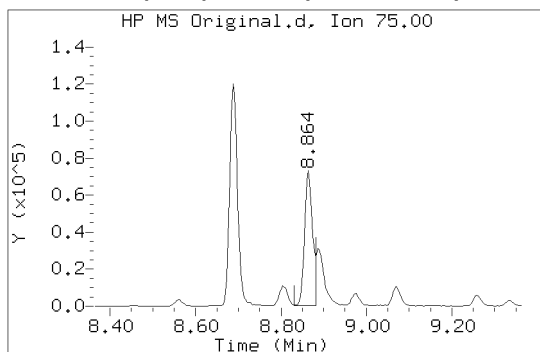
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25-Jan-2023
10:05
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**AFTER**

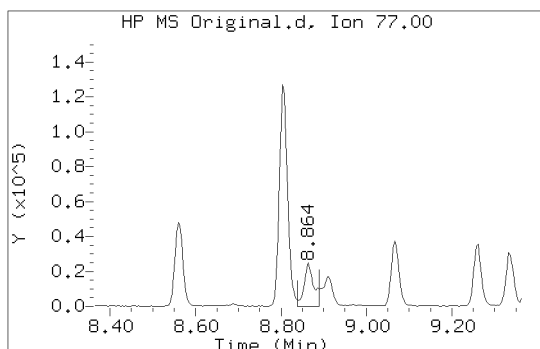
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HEIGHT
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25-Jan-2023
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**1,2,3-Trichloropropane (96-18-4)****BEFORE**

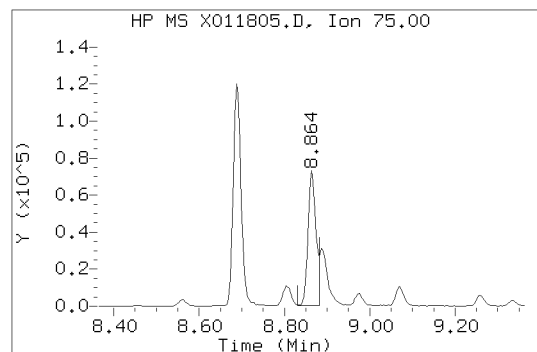
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10:05
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**BEFORE**

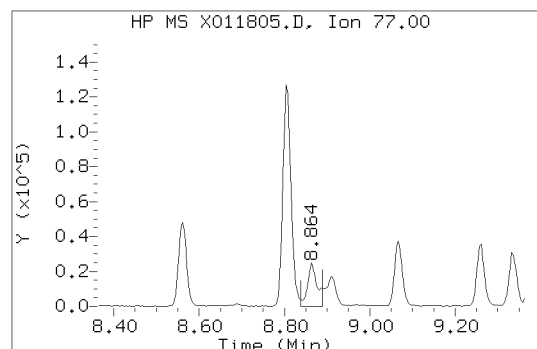
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10:05
linh
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**Reason Code:****AFTER**

MASS
75
AREA
100266
HEIGHT
72980
25-Jan-2023
10:05
linh
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**AFTER**

MASS
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AREA
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HEIGHT
24680
25-Jan-2023
10:05
linh
pham

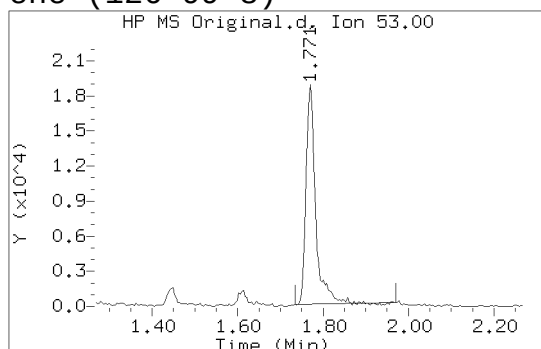


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Inj Date : 18-JAN-2023 12:30
InstruID : voa6.i
LabSampID : VLCSW-230118

Chloroprene (126-99-8)

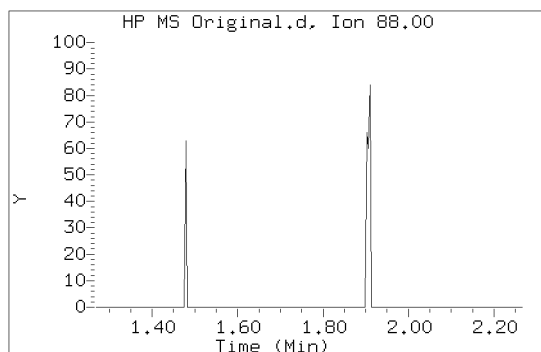
BEFORE

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25-Jan-2023
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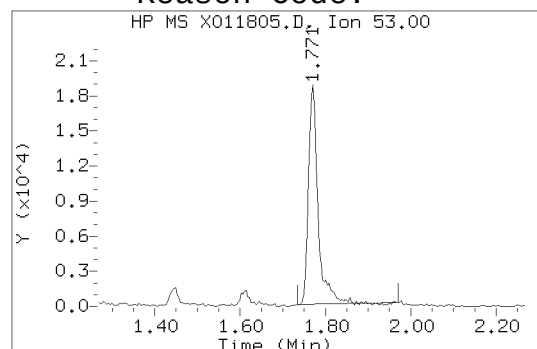
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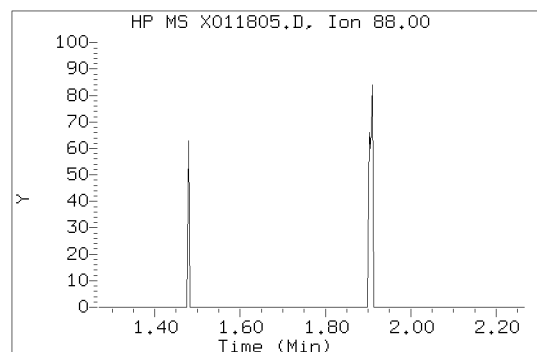
AFTER

MASS
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25-Jan-2023
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AFTER

MASS
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HEIGHT
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25-Jan-2023
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pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011807.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011807.D
 Lab Smp Id: VBLKW-230118 Client Smp ID: VBLKW-230118
 Inj Date : 18-JAN-2023 13:12
 Operator : PC Inst ID: voa6.i
 Smp Info : VBLKW-230118;VBLKW-230118;3;;BLANK
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	535465	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	235300	45.7506	45.75
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	263064	48.4833	48.48
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	749587	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	673748	50.0000	
\$ 48 Toluene-d8	98	6.386	6.385	(0.833)	879056	52.8000	52.79
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	306688	49.2833	49.28
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	355069	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011807.D

Date: 18-JAN-2023 13:12

Client ID: VBLKM-230118

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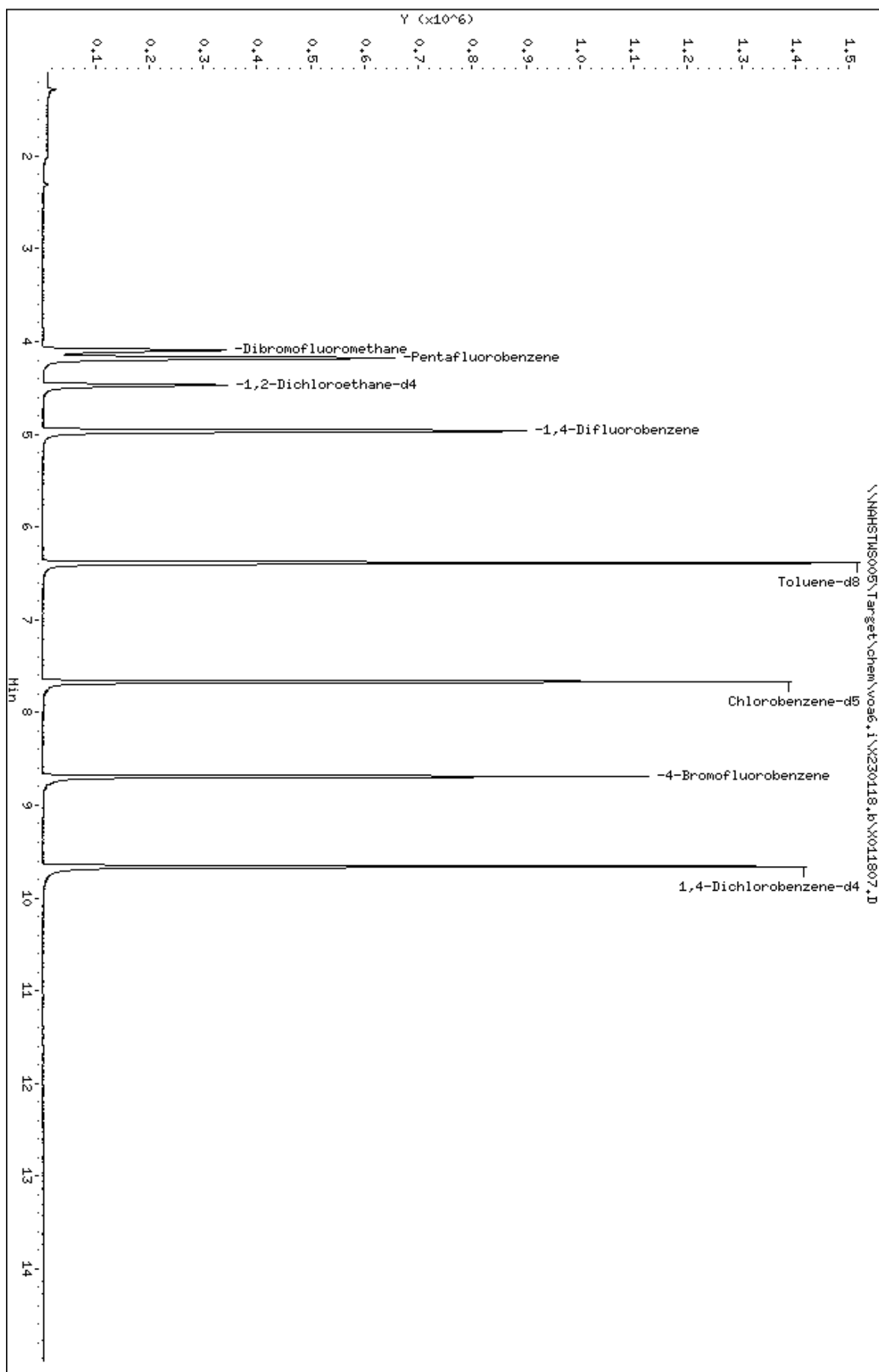
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011807.D
Inj Date : 18-JAN-2023 13:12
InstruID : voa6.i
LabSampID : VBLKW-230118

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D Page 1
Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D
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Inj Date : 18-JAN-2023 14:57
Operator : PC Inst ID: voa6.i
Smp Info : HS23010587-02;HS23010587-02;;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.177	(1.000)		535486	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		21127	431.612	431.61(a)
5 Vinyl Chloride	62		1.138	1.141	(0.272)		5927173	1267.09	1267.09(A)
11 1,1-Dichloroethene	96		1.910	1.910	(0.457)		12975132	3192.62	3192.62(A)
20 trans-1,2-Dichloroethene	96		2.528	2.524	(0.605)		41881	9.20773	9.20
22 1,1-Dichloroethane	63		2.914	2.918	(0.698)		4467117	559.605	559.60(A)
27 cis-1,2-Dichloroethene	96		3.522	3.521	(0.843)		598558	108.133	108.13
\$ 30 Dibromofluoromethane	113		4.095	4.095	(0.980)		233043	45.3084	45.30
33 1,2-Dichloroethane	62		4.556	4.552	(0.918)		85953	13.8665	13.86
\$ 35 1,2-Dichloroethane-d4	65		4.470	4.466	(1.070)		259754	47.8748	47.87
* 36 1,4-Difluorobenzene	114		4.961	4.965	(1.000)		756545	50.0000	
37 Benzene	78		4.511	4.507	(0.909)		143536	7.94504	7.94
38 Trichloroethene	130		5.205	5.205	(1.049)		1201414	234.462	234.46(A)
* 47 Chlorobenzene-d5	117		7.668	7.667	(1.000)		669922	50.0000	
\$ 48 Toluene-d8	98		6.386	6.385	(0.833)		880788	53.2062	53.20
53 1,1,2-Trichloroethane	83		6.839	6.839	(0.892)		235251	63.3281	63.32
56 Tetrachloroethene	164		6.925	6.925	(0.903)		2302	0.60086	0.60(a)
\$ 69 4-Bromofluorobenzene	95		8.687	8.687	(1.133)		303487	49.0477	49.04
* 70 1,4-Dichlorobenzene-d4	152		9.662	9.662	(1.000)		357627	50.0000	
83 1,3-Dichlorobenzene	146		9.613	9.606	(0.995)		13368	1.37269	1.37(a)



84 1,4-Dichlorobenzene	146	9.684	9.680 (1.002)	52717	4.96067	4.96(a)
88 1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	294114	29.3244	29.32

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D Page 2

Report Date: 25-Jan-2023 10:05

Compounds	QUANT	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
M 94 1,2-Dichloroethylene (total)	96					640439	117.340	117.34	
141 Cyclohexane	56		4.118	4.118	(0.986)	56287	11.4261	11.42	

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011812.D

Date: 18-JAN-2023 14:57

Client ID: HS23010587-02

Sample Info: HS23010587-02;HS23010587-02;;

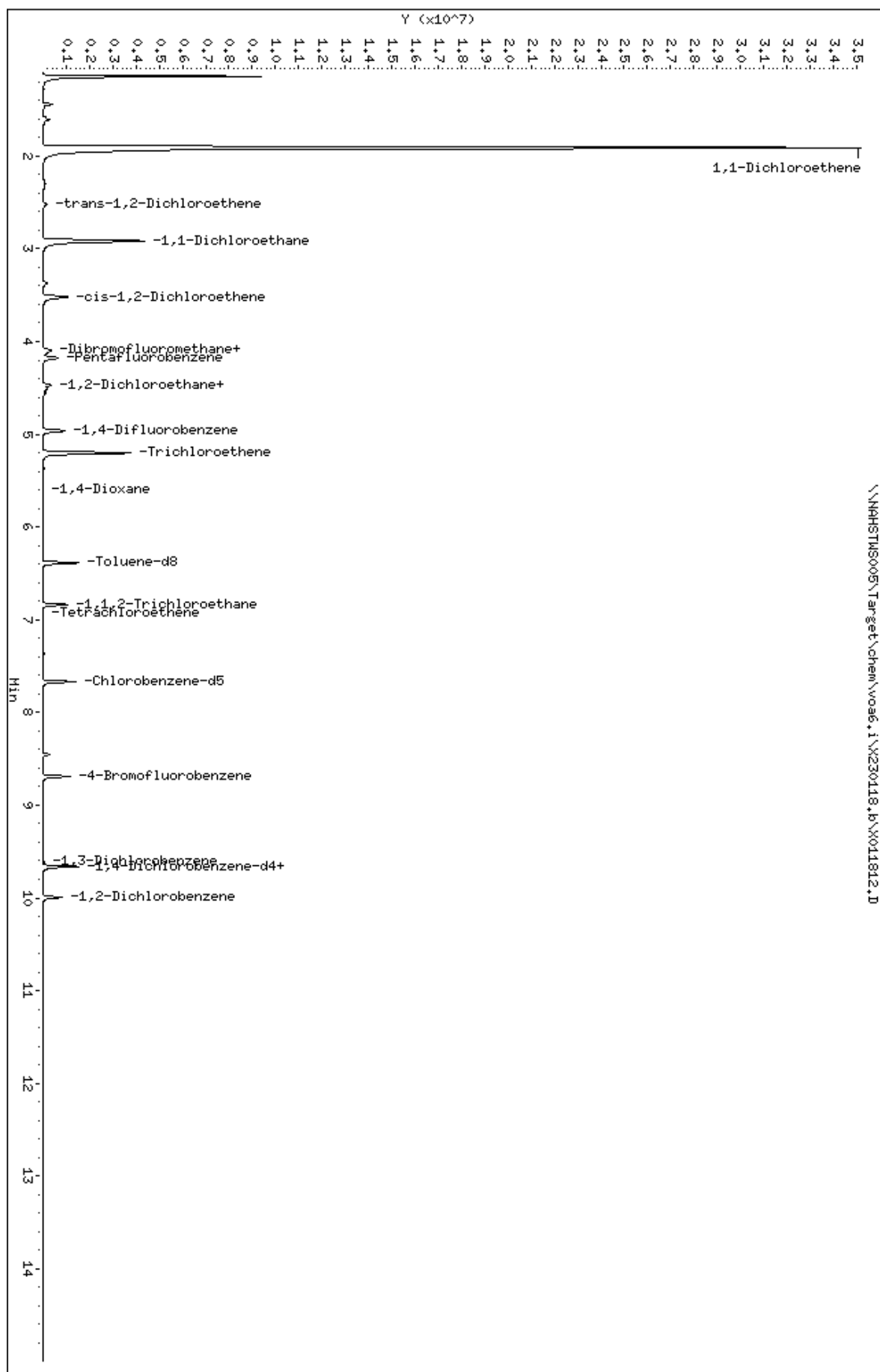
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 2

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

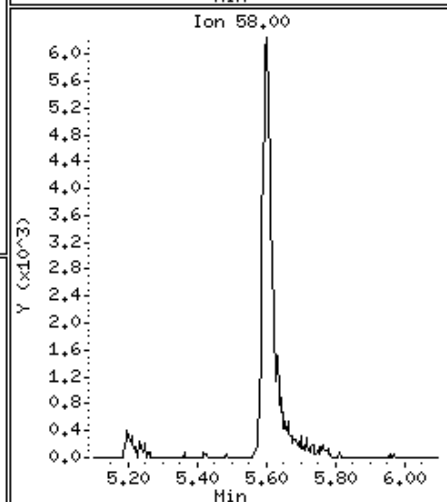
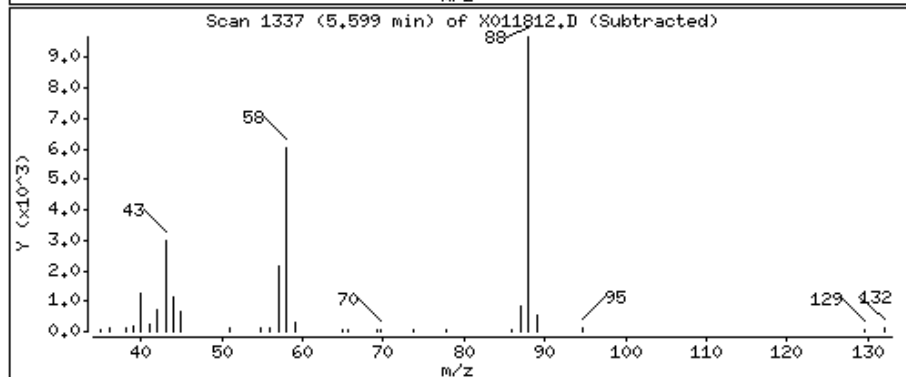
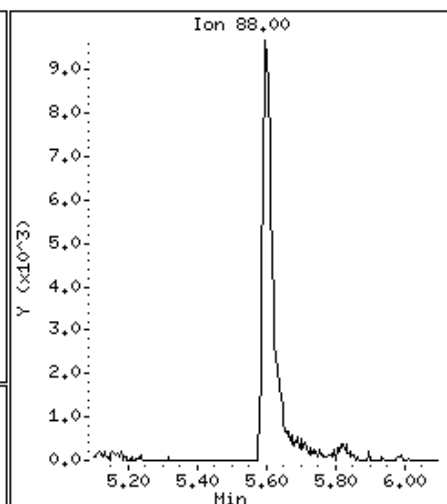
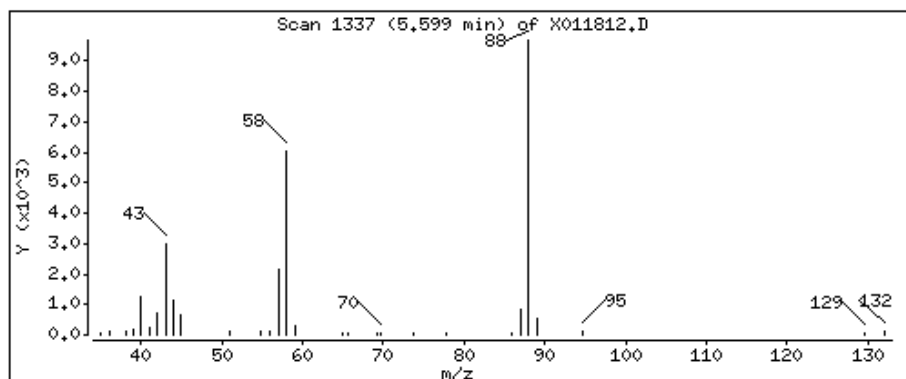
Operator: PC

Column phase: DB624

Column diameter: 0.18

135 1,4-Dioxane

Concentration: 431.61 ug/l



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 3

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

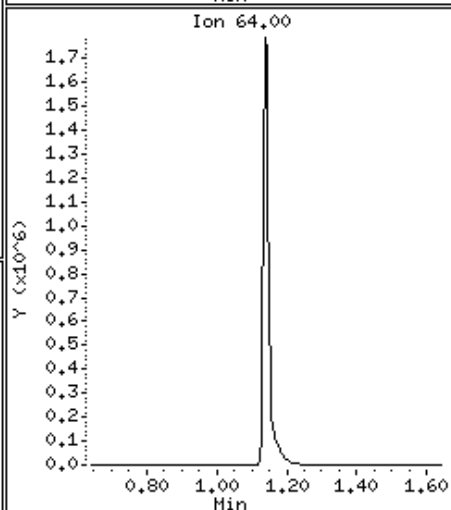
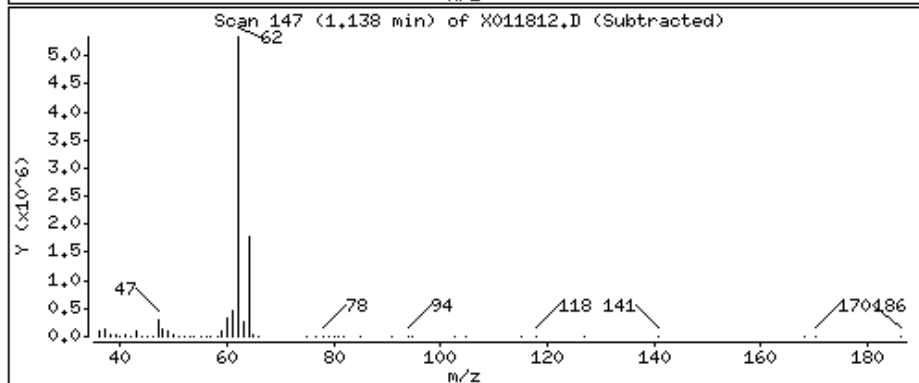
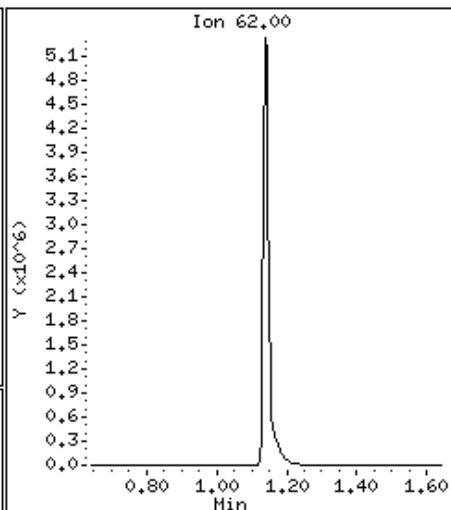
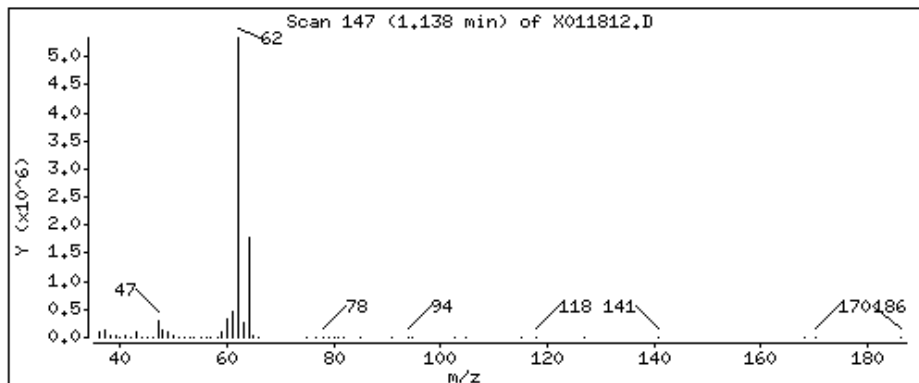
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 1267.09 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 4

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

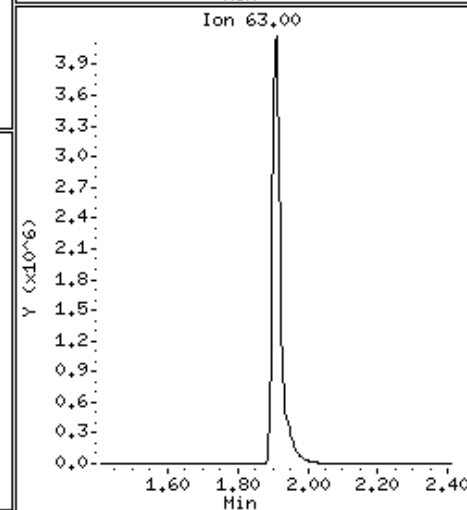
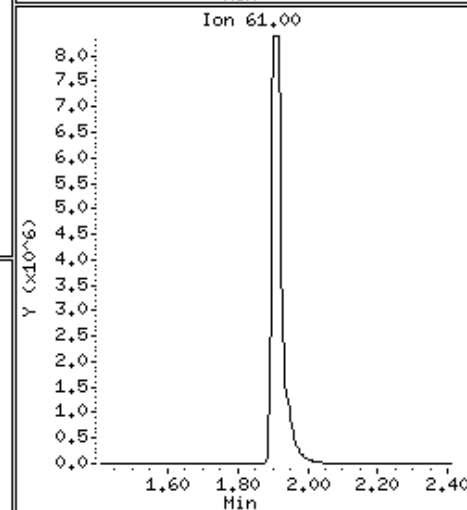
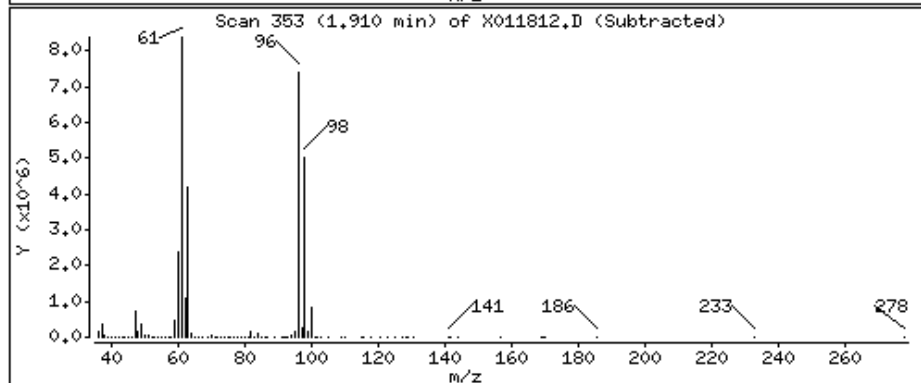
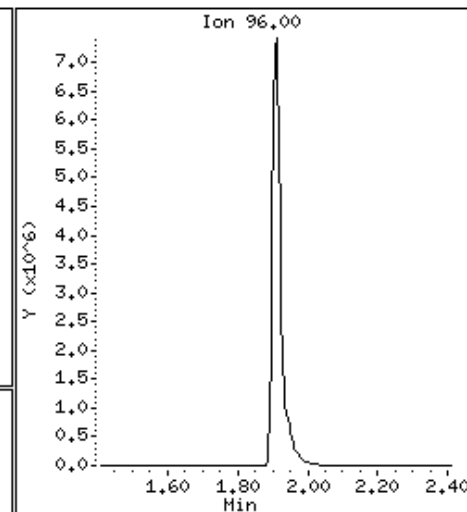
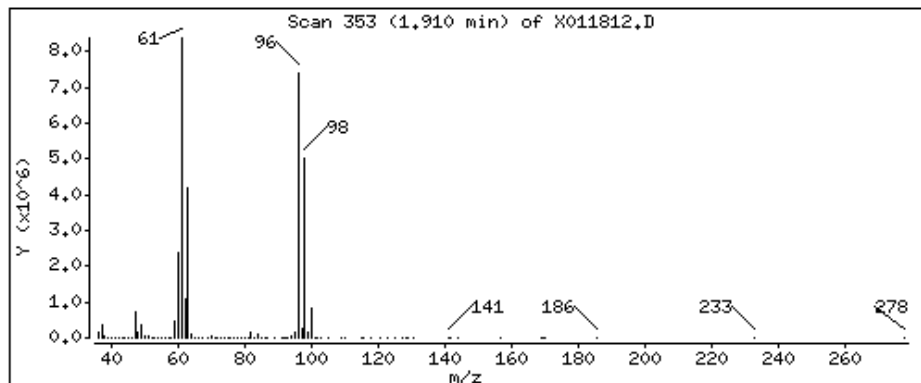
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 3192.62 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 5

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

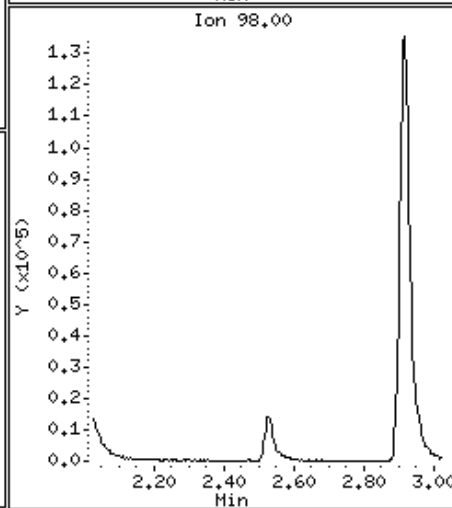
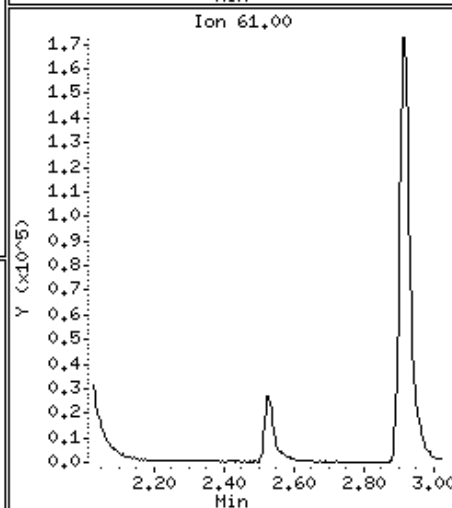
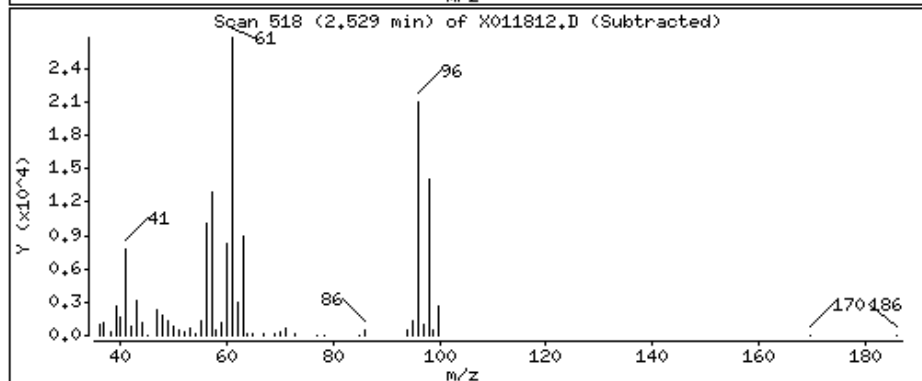
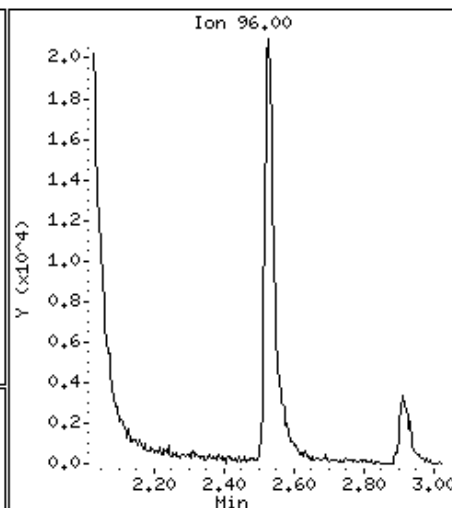
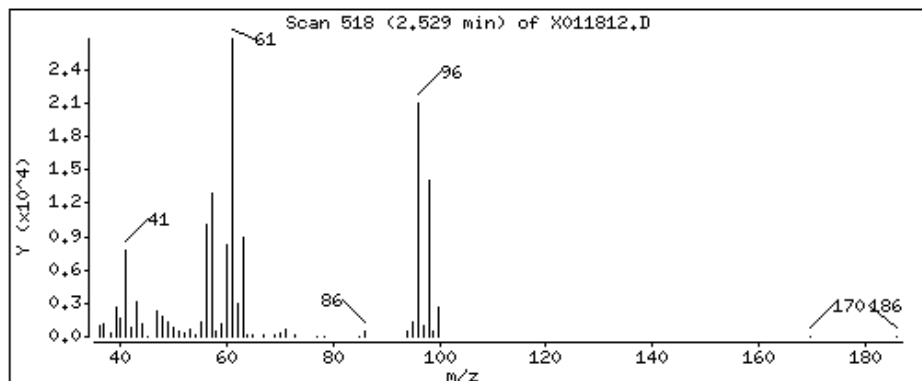
Operator: PC

Column phase: DB624

Column diameter: 0.18

20 trans-1,2-Dichloroethene

Concentration: 9.20 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X011812.D

Page 6

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

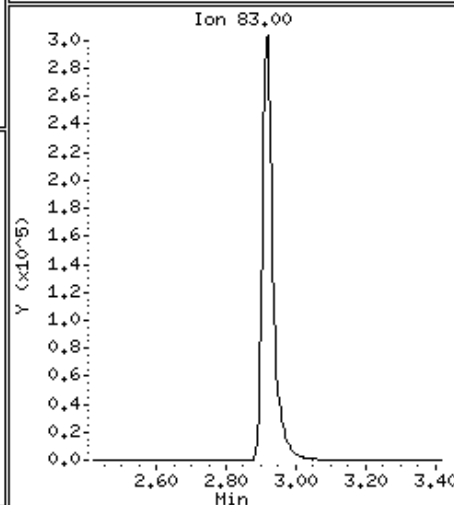
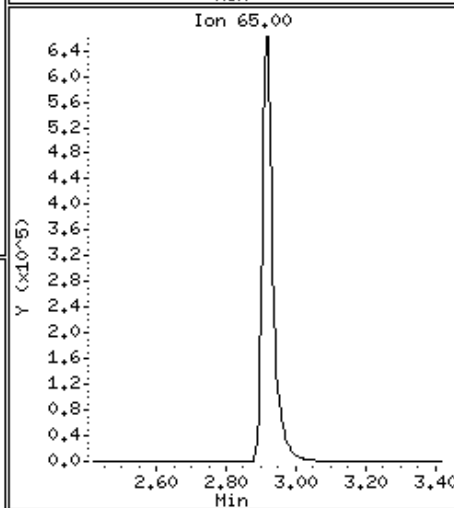
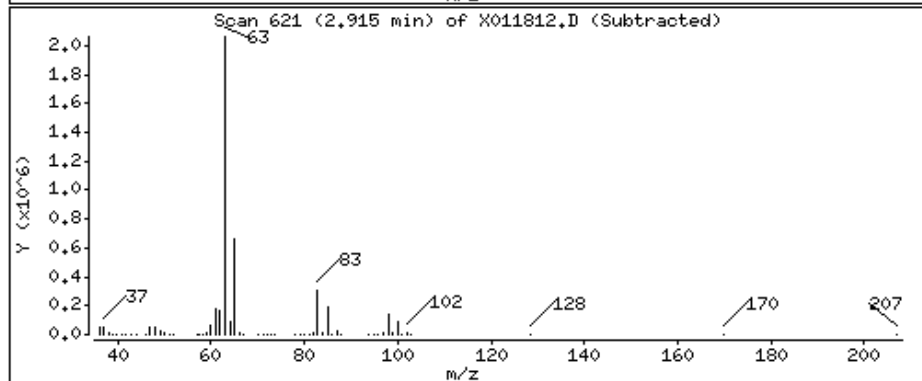
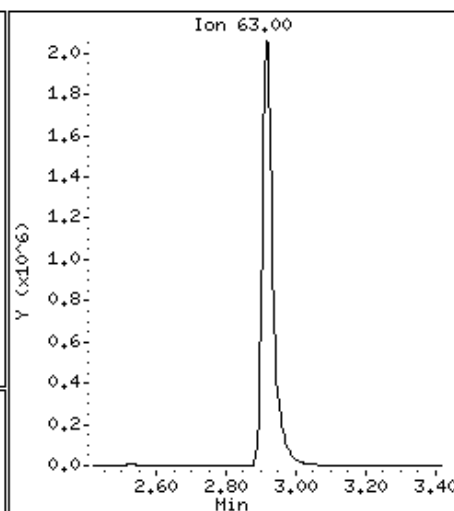
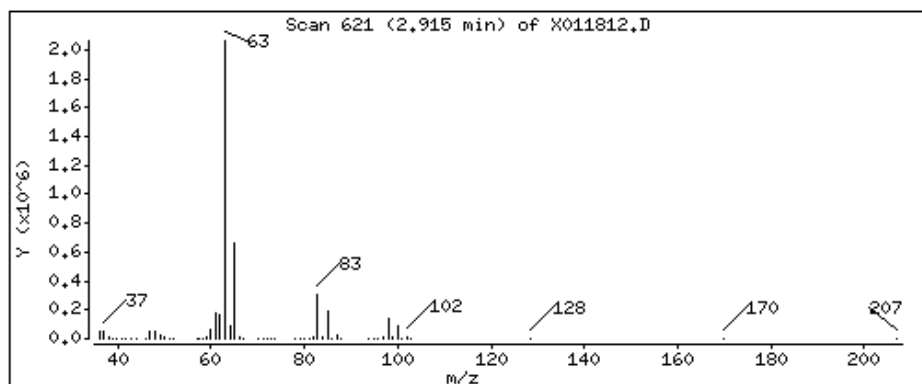
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 559.60 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 7

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

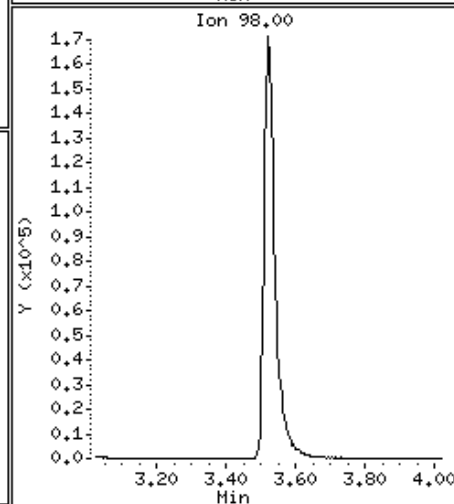
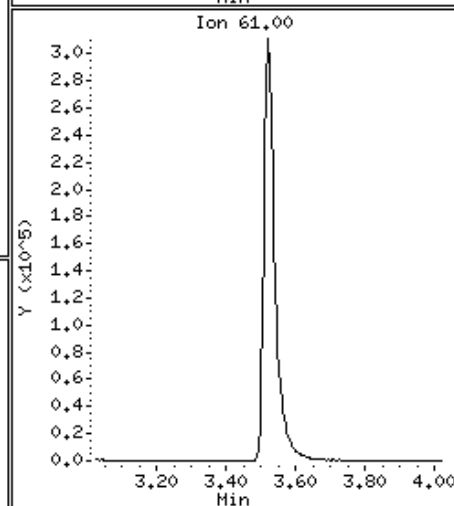
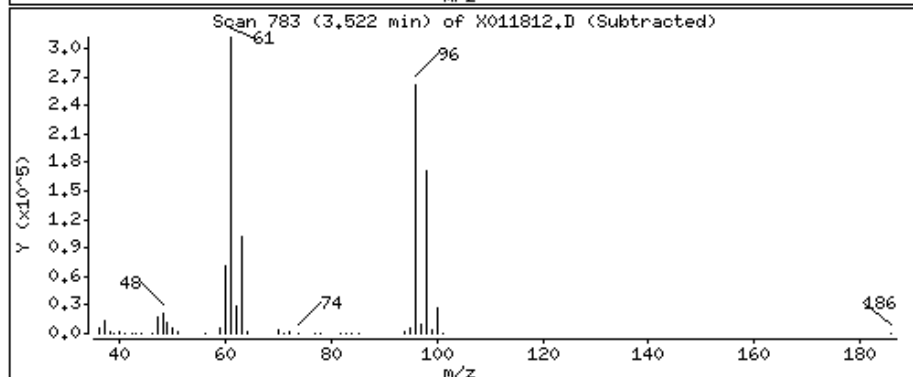
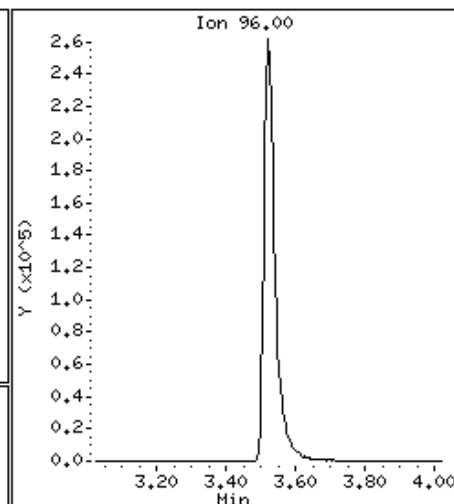
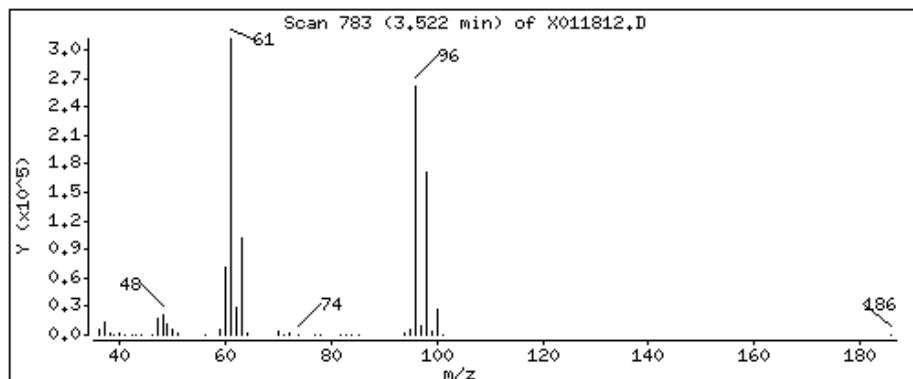
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 108.13 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 8

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

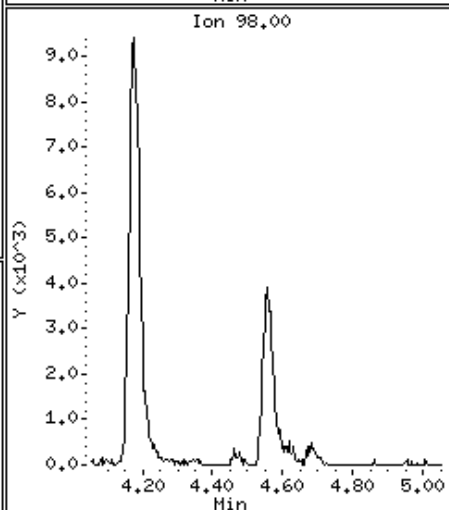
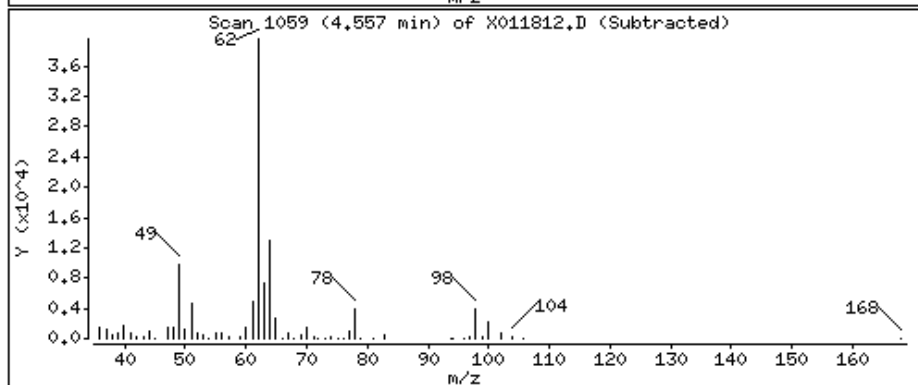
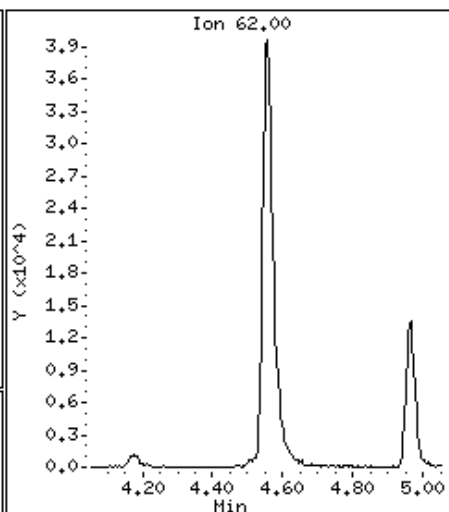
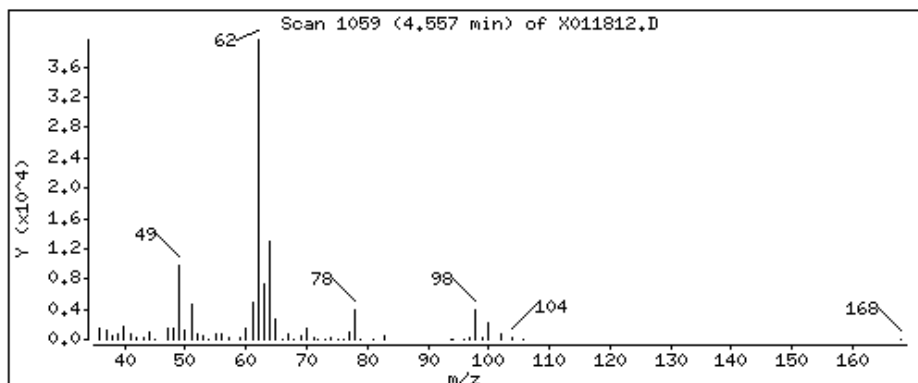
Operator: PC

Column phase: DB624

Column diameter: 0.18

33 1,2-Dichloroethane

Concentration: 13.86 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 9

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

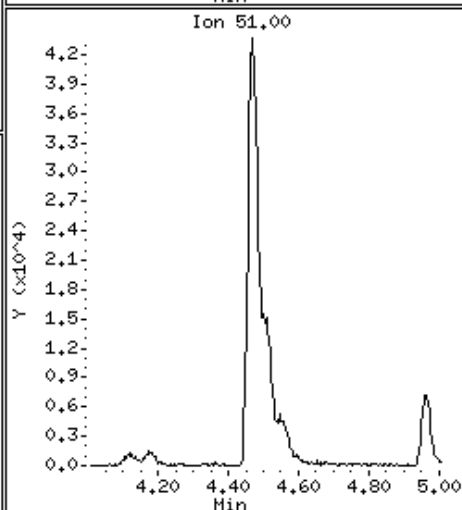
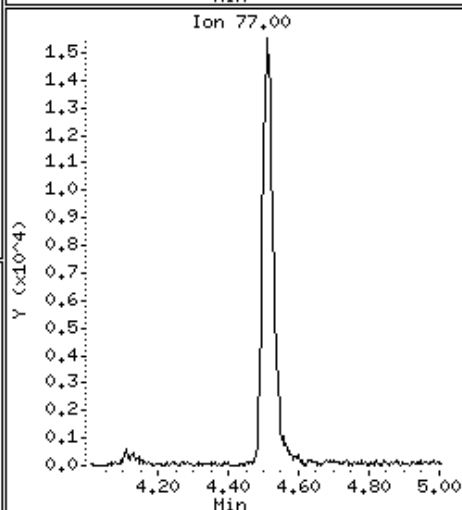
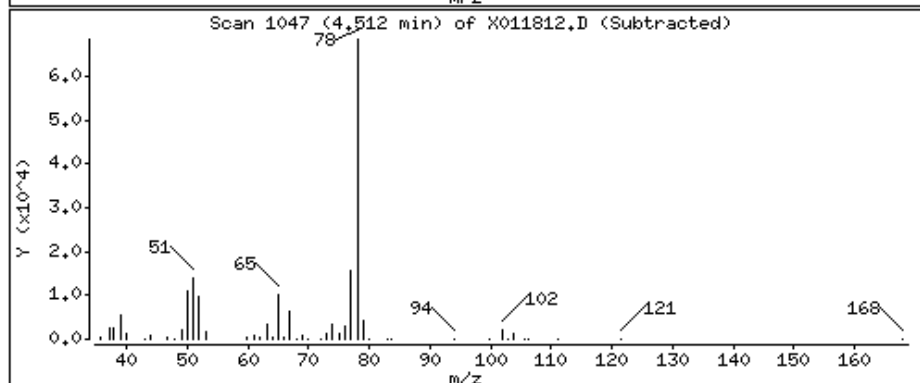
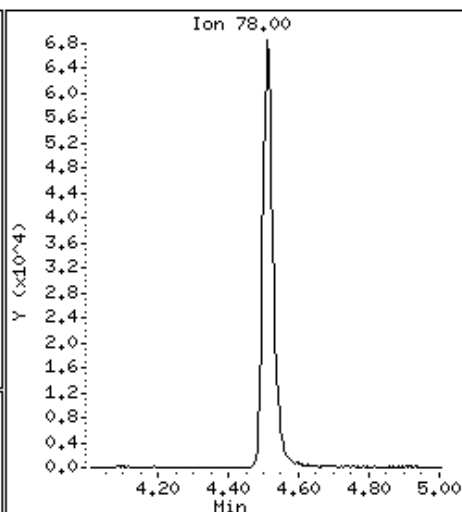
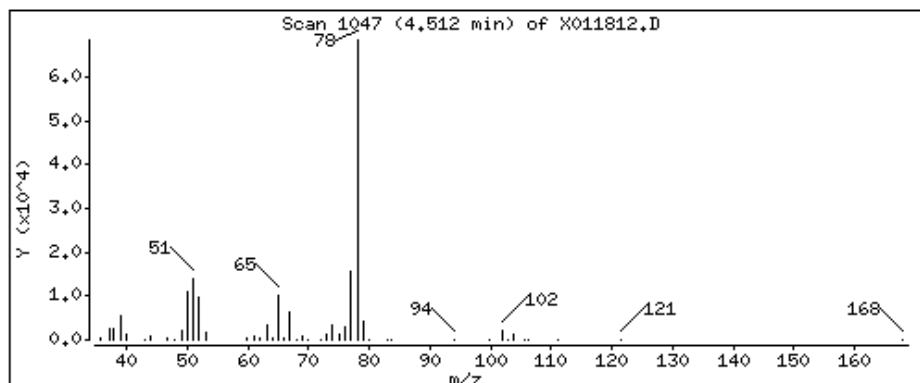
Operator: PC

Column phase: DB624

Column diameter: 0.18

37 Benzene

Concentration: 7.94 ug/l



Data File: \\NAHSTHS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 10

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

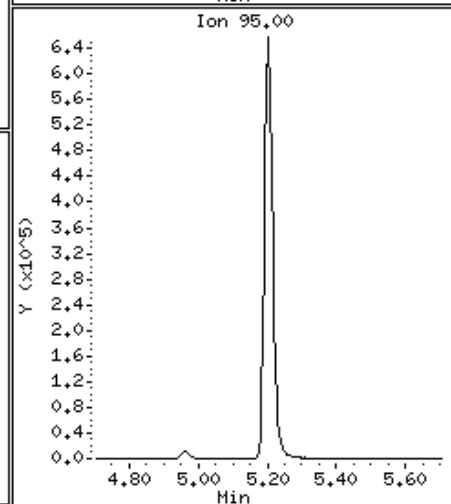
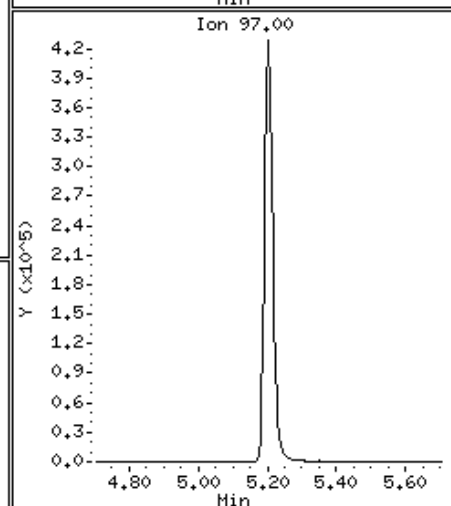
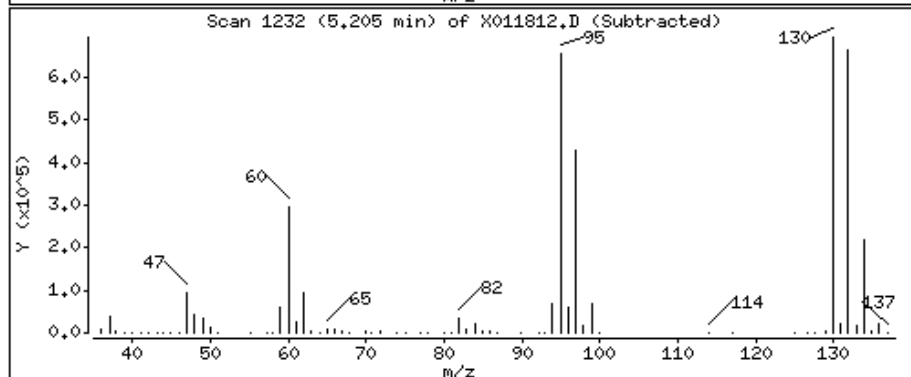
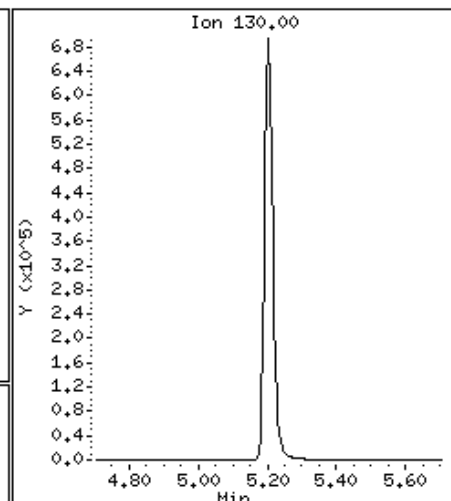
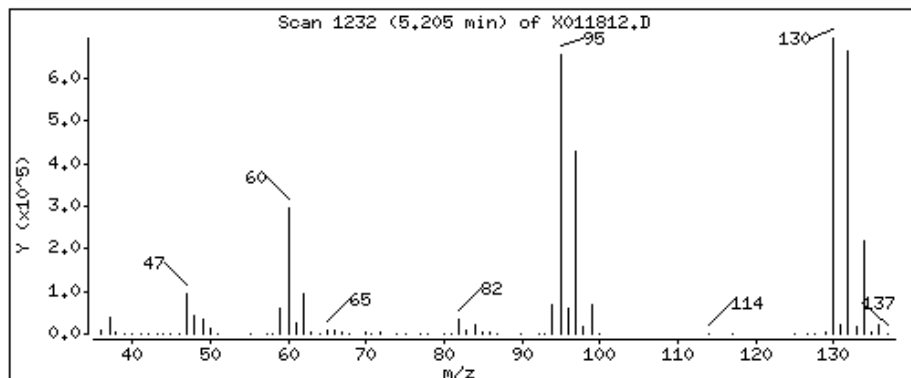
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 234.46 ug/l



Data File: \\NAHSTHS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 11

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

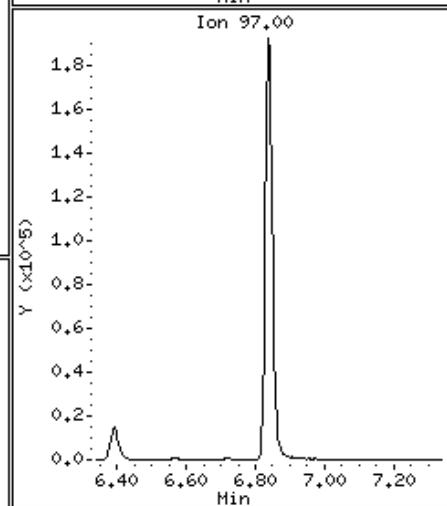
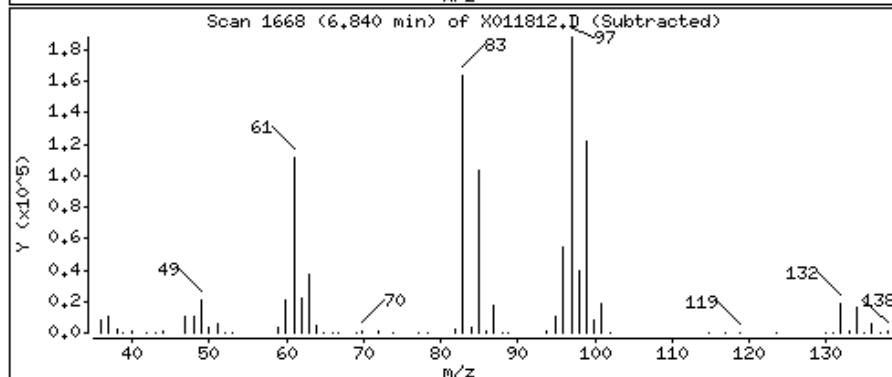
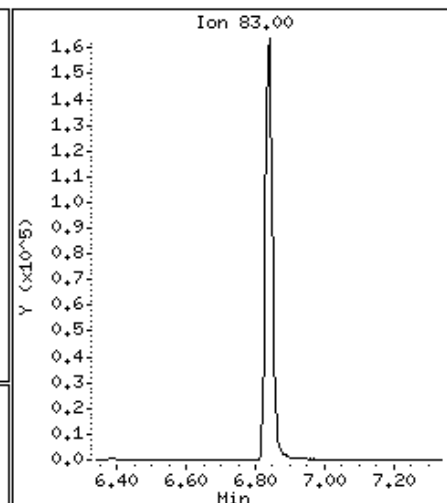
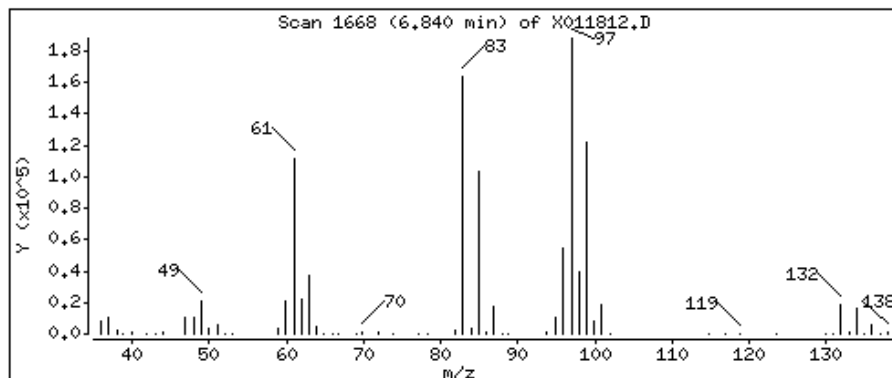
Operator: PC

Column phase: DB624

Column diameter: 0.18

53 1,1,2-Trichloroethane

Concentration: 63.32 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 12

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

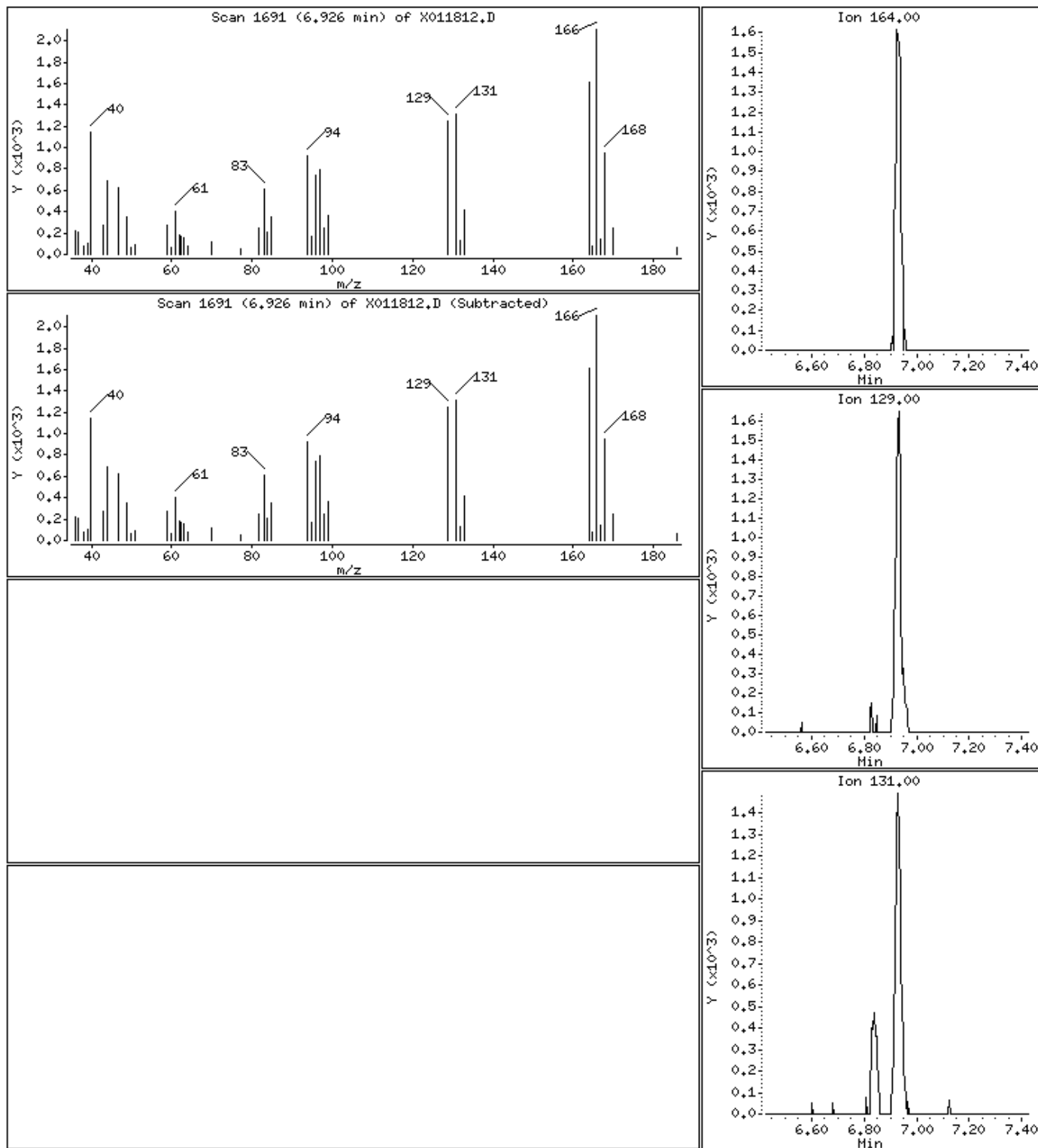
Operator: PC

Column phase: DB624

Column diameter: 0.18

56 Tetrachloroethene

Concentration: 0.60 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 13

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

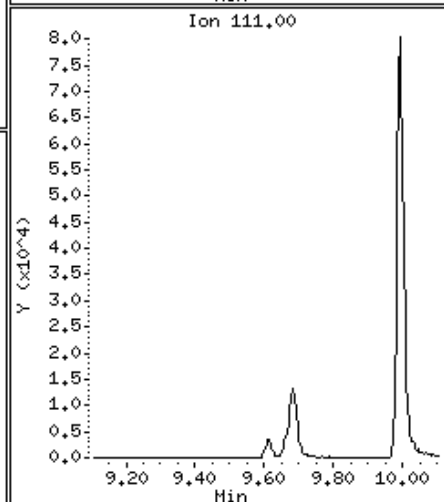
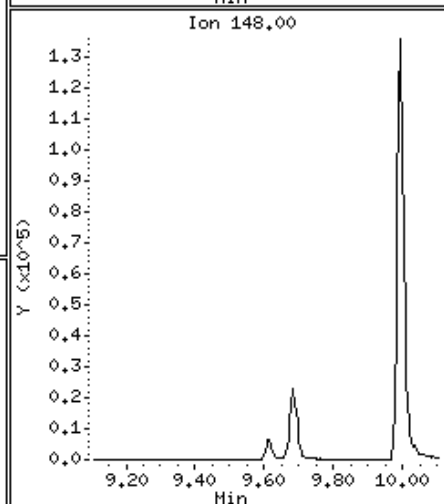
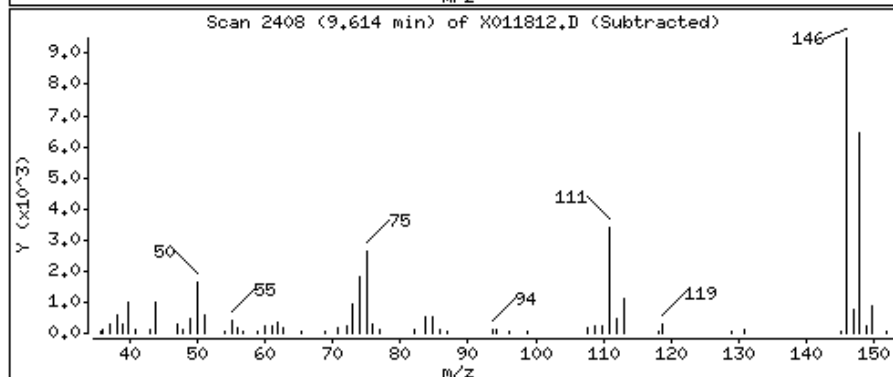
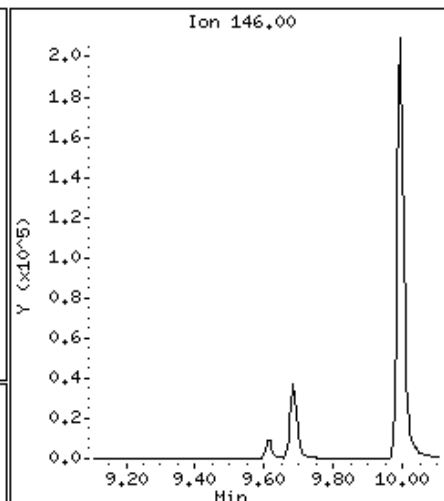
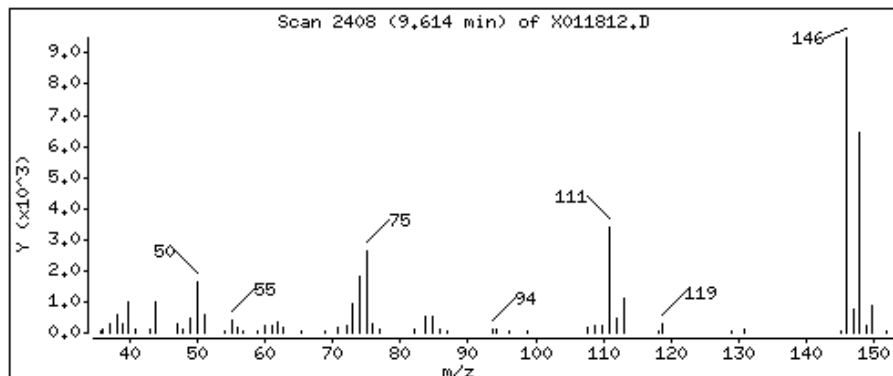
Operator: PC

Column phase: DB624

Column diameter: 0.18

83 1,3-Dichlorobenzene

Concentration: 1.37 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X011812.D

Page 14

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;

Purge Volume: 5.0

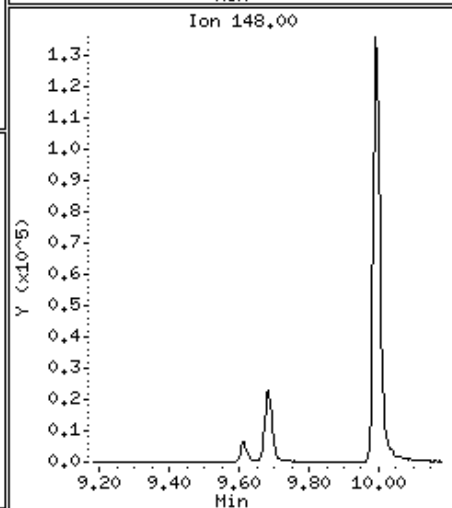
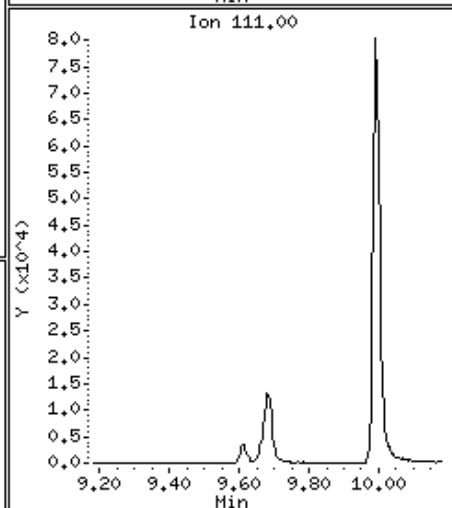
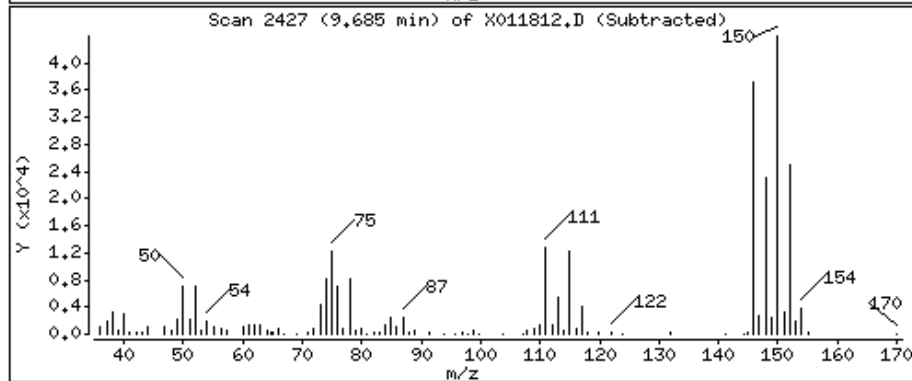
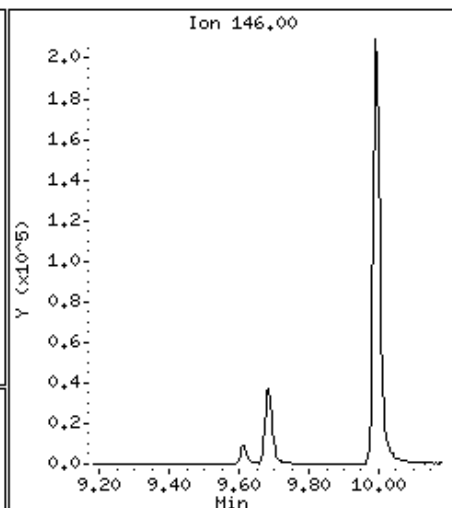
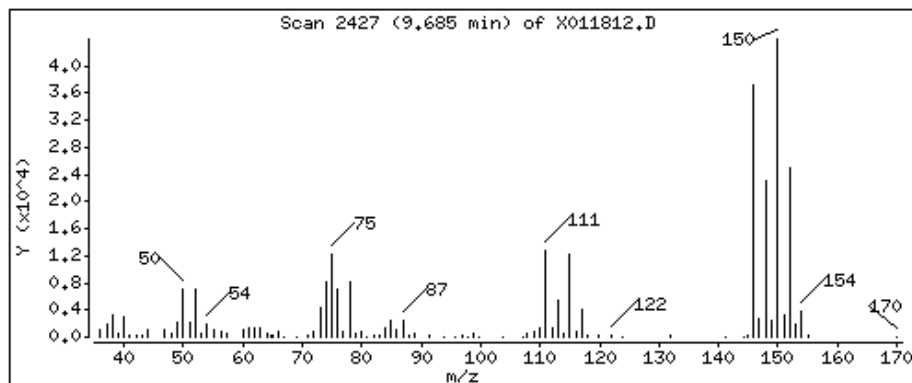
Operator: PC

Column phase: DB624

Column diameter: 0.18

84 1,4-Dichlorobenzene

Concentration: 4.96 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 15

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

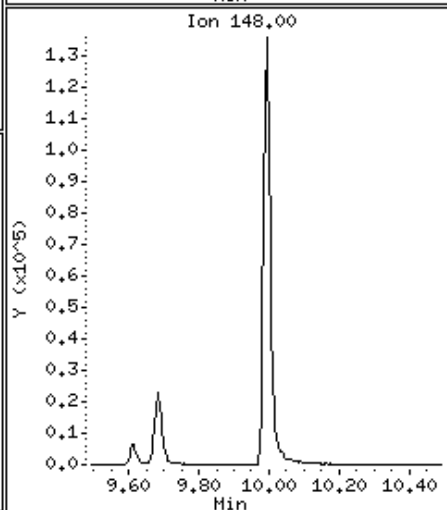
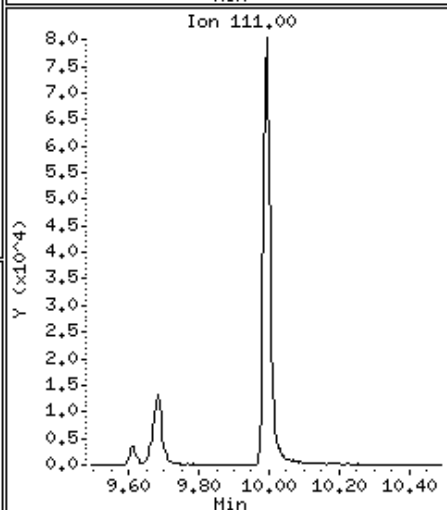
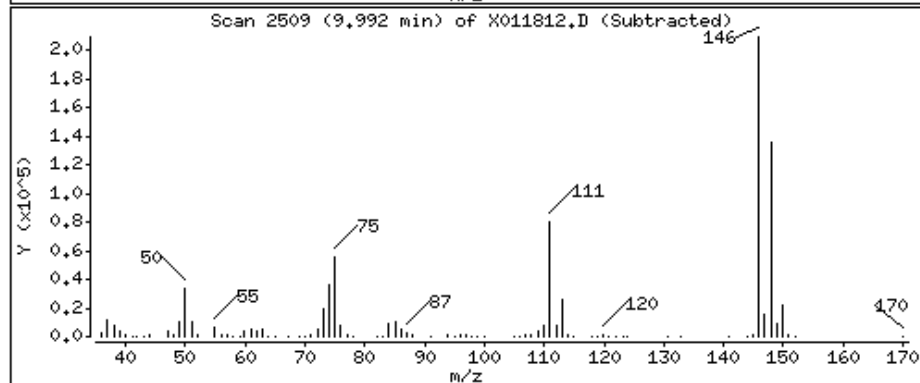
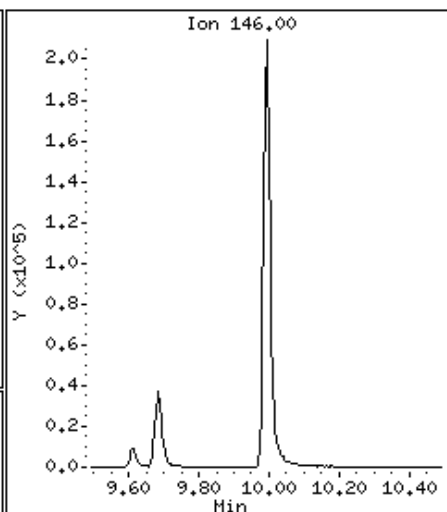
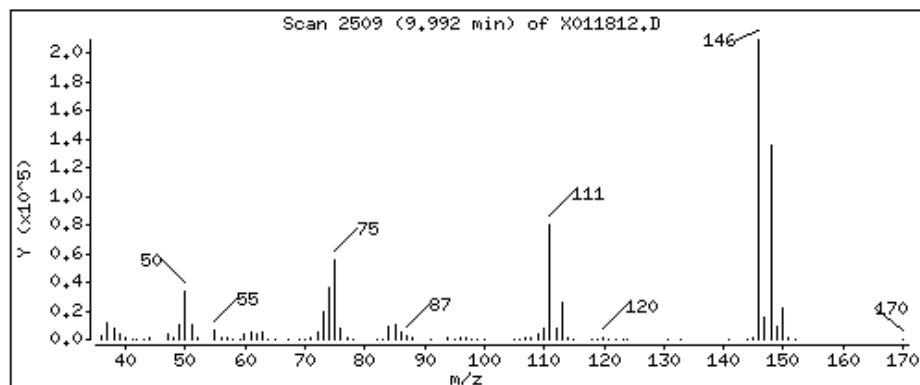
Operator: PC

Column phase: DB624

Column diameter: 0.18

88 1,2-Dichlorobenzene

Concentration: 29.32 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D

Page 16

Date : 18-JAN-2023 14:57

Client ID: HS23010587-02

Instrument: voa6.i

Sample Info: HS23010587-02;HS23010587-02;;;

Purge Volume: 5.0

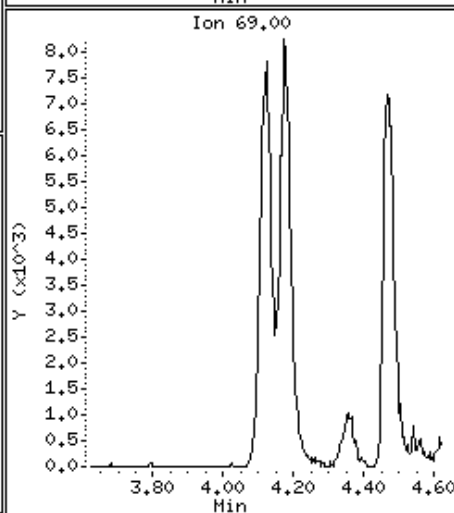
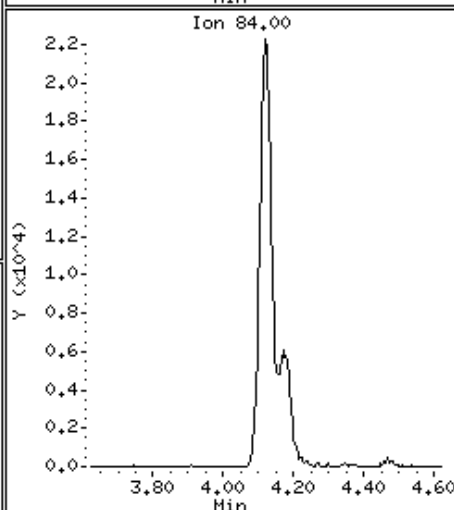
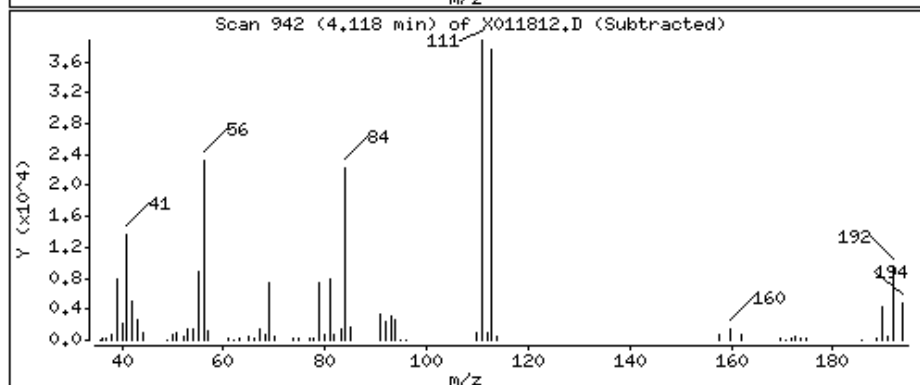
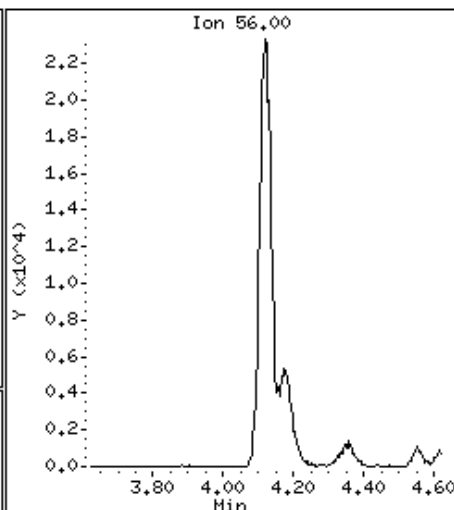
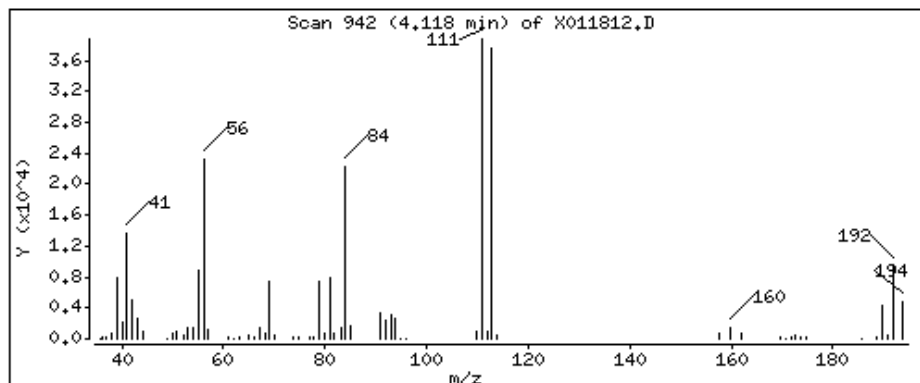
Operator: PC

Column phase: DB624

Column diameter: 0.18

141 Cyclohexane

Concentration: 11.42 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011812.D
Inj Date : 18-JAN-2023 14:57
InstruID : voa6.i
LabSampID : HS23010587-02

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011813.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011813.D
 Lab Smp Id: HS23010794-01MS Client Smp ID: HS23010794-01MS
 Inj Date : 18-JAN-2023 15:18
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-01MS;HS23010794-01MS;3;;MS
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 13 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		531106	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		17991	370.577	370.57(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		77876	21.3647	21.36
25 Methacrylonitrile	41		3.821	3.814	(0.915)		63370	16.8507	16.85
12 Isobutyl Alcohol	43		4.676	4.672	(1.119)		240328	402.305	402.30
13 Acetonitrile	39		2.194	2.194	(0.525)		100316	207.533	207.53
14 Allyl Chloride	41		2.194	2.194	(0.525)		176622	19.1852	19.18
4 Propionitrile	54		3.649	3.645	(0.873)		97294	179.536	179.53(a)
72 trans-1,4-Dichloro-2-butene	53		8.889	8.890	(1.159)		30438	20.8171	20.81
194 Acetaldehyde	44		1.209	1.209	(0.289)		24318	57.4117	57.41
23 Chloroprene	53		1.767	1.767	(0.423)		41048	22.7308	22.73(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		87400	21.0891	21.08
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		65610	18.1175	18.11
49 Ethyl Methacrylate	69		6.712	6.708	(1.353)		60636	17.2173	17.21
139 Diethyl ether	59		1.752	1.752	(0.419)		64319	18.1244	18.12
142 Tetrahydrofuran	42		3.844	3.840	(0.920)		22263	31.6200	31.61
156 Diisopropyl ether	45		2.997	2.997	(0.717)		257377	18.6812	18.68
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)		373061	20.9303	20.93
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		71939	19.6072	19.60
3 Chloromethane	50		1.074	1.074	(0.257)		92590	20.6279	20.62



5 Vinyl Chloride	62	1.141	1.141 (0.273)	102970	22.1942	22.19
6 Bromomethane	94	1.336	1.336 (0.320)	67820	20.4091	20.40

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011813.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	63367	19.6229	19.62
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	158220	24.3696	24.36
9 Acrolein	56	1.441	1.441	(0.345)	16117	45.9418	45.94
10 Acetone	43	1.969	1.970	(0.472)	45372	30.4223	30.42
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	100964	25.0478	25.04
15 Iodomethane	142	2.022	2.022	(0.484)	170027	35.1360	35.13
16 Acrylonitrile	53	2.532	2.528	(0.606)	54511	39.8733	39.87
17 Methylene Chloride	84	2.303	2.299	(0.551)	98776	17.8650	17.86
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	238352	18.0654	18.06
19 Carbon Disulfide	76	2.067	2.067	(0.495)	452679	42.9235	42.92
20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	90356	20.0290	20.02
21 Vinyl Acetate	43	2.997	2.993	(0.717)	462920	39.9689	39.96
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	156645	19.7851	19.78
24 2-Butanone	43	3.578	3.570	(0.856)	51104	34.3769	34.37
26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	145497	21.6440	21.64
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	104192	18.9781	18.97
28 Chloroform	83	3.900	3.904	(0.934)	170125	19.1715	19.17
29 Bromochloromethane	128	3.791	3.788	(0.908)	52040	17.3122	17.31
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	232314	45.5400	45.53
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	152829	21.7068	21.70
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	132478	24.9509	24.95
33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	128144	20.9126	20.91
34 Carbon Tetrachloride	117	4.260	4.264	(0.859)	133949	23.6248	23.62
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	251733	46.7853	46.78
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	747876	50.0000	
37 Benzene	78	4.511	4.507	(0.909)	378439	21.1903	21.19
38 Trichloroethene	130	5.208	5.205	(1.050)	113456	22.3982	22.39
39 Bromodichloromethane	83	5.726	5.726	(1.154)	129673	19.3473	19.34
42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	94211	19.8313	19.83
44 Dibromomethane	93	5.553	5.553	(1.119)	61482	19.0406	19.04
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	151805	41.9320	41.93
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	156221	19.8466	19.84
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	677318	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	879381	52.5411	52.54
50 Toluene	91	6.445	6.445	(0.841)	417698	22.3114	22.31
51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	129343	19.8004	19.80
52 2-Hexanone	43	7.086	7.083	(0.924)	103898	42.1816	42.18
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	75587	20.1254	20.12
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	152942	20.6884	20.68
55 Dibromochloromethane	129	7.176	7.173	(0.936)	107719	19.8718	19.87
56 Tetrachloroethene	164	6.929	6.925	(0.904)	97046	25.0538	25.05
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	96227	20.4918	20.49
58 1-Chlorohexane	55	7.694	7.694	(1.551)	99168	27.4381	27.43
59 Chlorobenzene	112	7.694	7.694	(1.003)	281800	21.2216	21.22
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	102479	20.7375	20.73
61 Ethylbenzene	106	7.799	7.799	(1.017)	146961	23.4948	23.49
62 m,p-Xylenes	106	7.904	7.904	(1.031)	371242	46.0399	46.03
63 o-Xylene	106	8.241	8.241	(1.075)	178941	22.4840	22.48
64 Styrene	104	8.260	8.260	(1.077)	300291	22.5113	22.51
66 Bromoform	173	8.410	8.410	(1.097)	72283	19.2479	19.24
67 Isopropylbenzene	105	8.560	8.560	(1.116)	462951	25.4614	25.46
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	122478	20.7609	20.76



\$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	313751	50.1514	50.15
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	370137	50.0000	

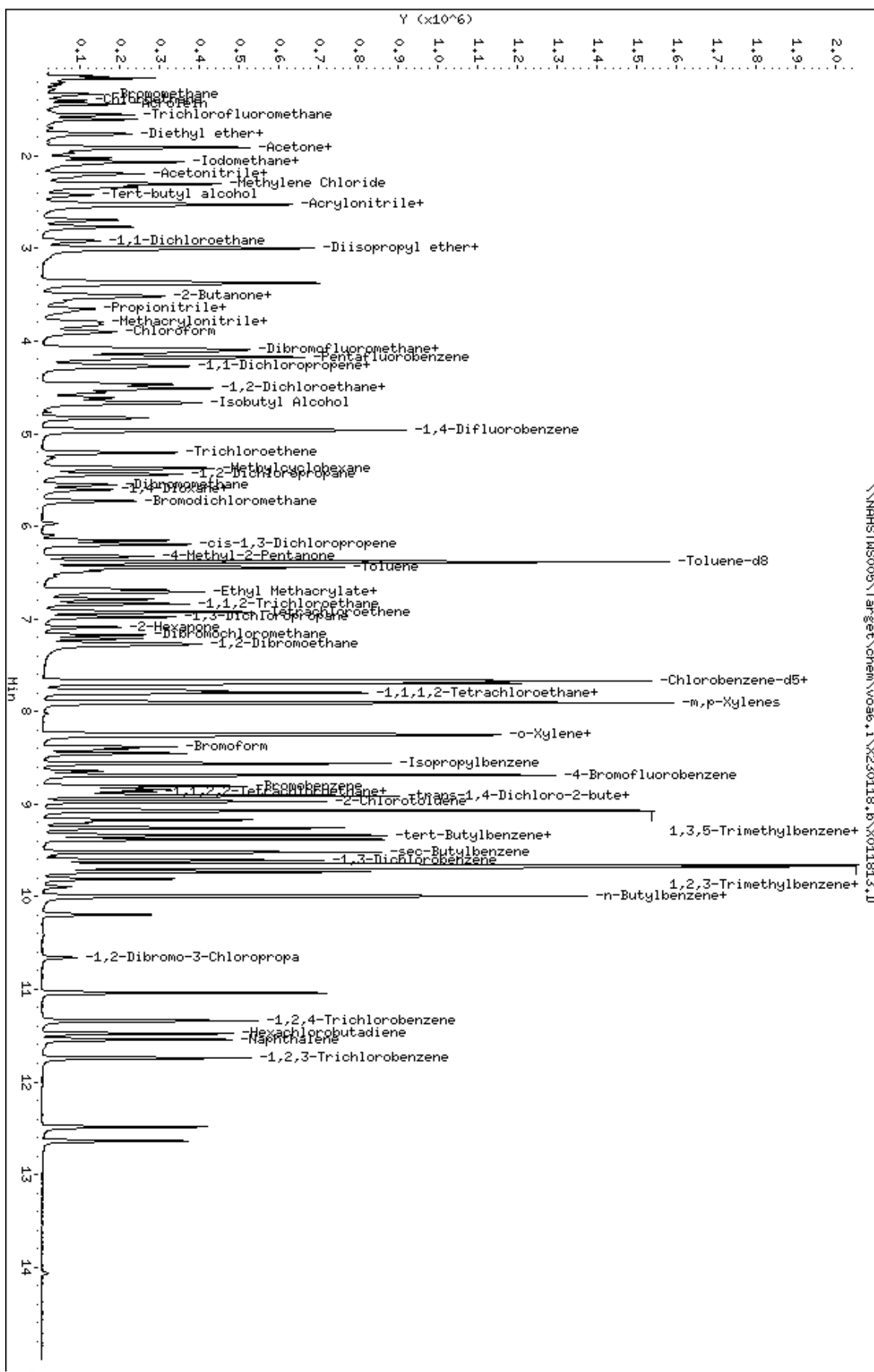
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 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	86389	20.9756	20.97(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	547134	26.6864	26.68
74 Bromobenzene	156	8.803	8.803	(0.911)	129757	21.3674	21.36
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	388547	25.6539	25.65
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	321562	23.9011	23.90
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	370760	24.1739	24.17
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	333793	26.9237	26.92
79 1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	388336	24.3679	24.36
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	471753	28.5986	28.59
82 p-Isopropyltoluene	119	9.650	9.651	(0.999)	416838	28.1996	28.19
83 1,3-Dichlorobenzene	146	9.605	9.606	(0.994)	237181	23.5317	23.53
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	248458	22.5897	22.58
87 n-Butylbenzene	91	9.995	9.995	(1.035)	369286	26.7774	26.77
88 1,2-Dichlorobenzene	146	9.995	9.992	(1.035)	232005	22.3501	22.35
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	18988	20.1870	20.18
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	156794	23.9343	23.93
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	77984	26.9846	26.98
92 Naphthalene	128	11.544	11.540	(1.195)	340035	22.8132	22.81
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	147160	23.4549	23.45
M 94 1,2-Dichloroethylene (total)	96				194548	39.0071	39.00
M 95 Xylenes (total)	106				550183	68.5239	68.52
141 Cyclohexane	56	4.121	4.118	(0.987)	146470	27.9309	27.93
138 Freon TF	101	1.913	1.910	(0.458)	98375	25.2331	25.23
147 Methylcyclohexane	55	5.377	5.377	(1.084)	215607	23.5517	23.55
146 Methyl Acetate	43	2.228	2.224	(0.533)	45805	19.1664	19.16
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	142595	387.745	387.74
149 Isopropyl Alcohol	45	2.089	2.086	(0.500)	75779	394.560	394.56

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa6.1\X230118.b\X011813.D
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 Column phase: DB624

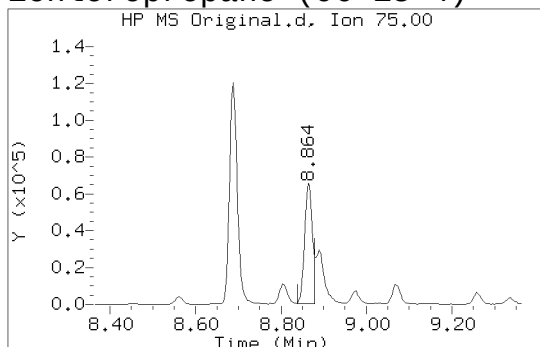
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 Operator: PC
 Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011813.D
Inj Date : 18-JAN-2023 15:18
InstruID : voa6.i
LabSampID : HS23010794-01MS

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

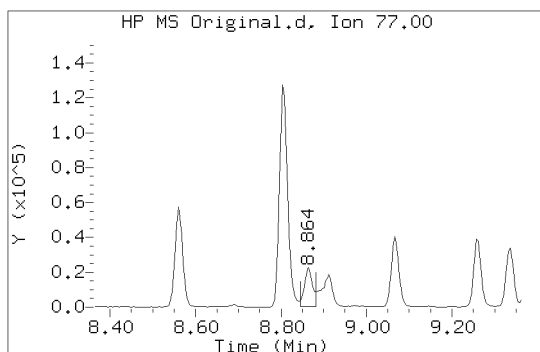
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MASS
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25-Jan-2023
10:05
linh



BEFORE

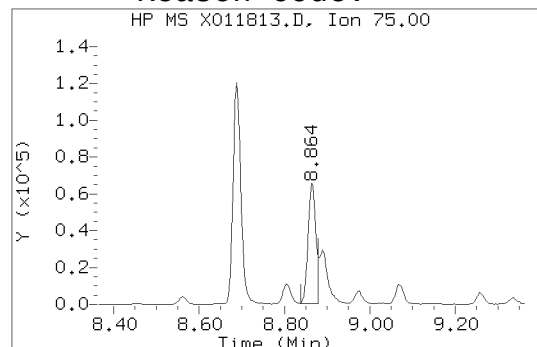
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AFTER

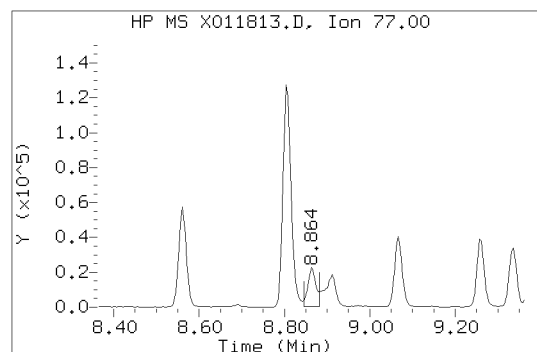
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Reason Code:



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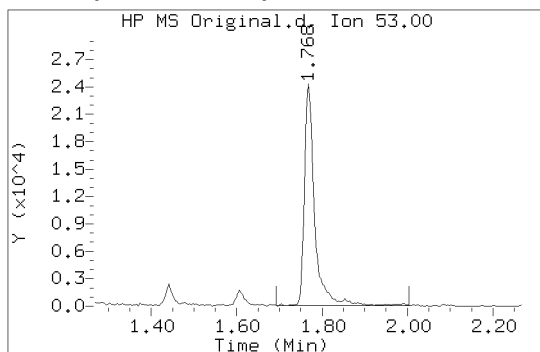
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pham



Chloroprene (126-99-8)

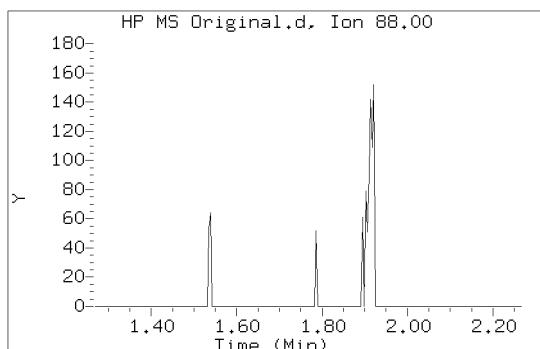
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BEFORE

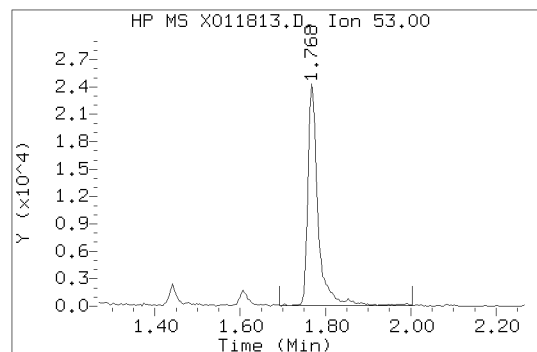
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AFTER

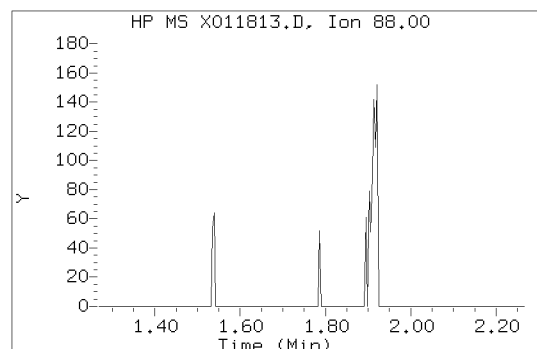
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Reason Code:



AFTER

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25-Jan-2023
10:05
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pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011814.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011814.D
 Lab Smp Id: HS23010794-01MSD Client Smp ID: HS23010794-01MSD
 Inj Date : 18-JAN-2023 15:39
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-01MSD;HS23010794-01MSD;3;;MSD
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 13 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		554704	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		18868	372.108	372.10(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		75375	19.7989	19.79
25 Methacrylonitrile	41		3.825	3.814	(0.916)		69584	17.7159	17.71
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		248917	398.957	398.95
13 Acetonitrile	39		2.194	2.194	(0.525)		102276	202.587	202.58
14 Allyl Chloride	41		2.194	2.194	(0.525)		178447	18.5588	18.55
4 Propionitrile	54		3.649	3.645	(0.873)		102175	180.522	180.52(a)
72 trans-1,4-Dichloro-2-butene	53		8.889	8.890	(1.159)		30978	19.8982	19.89
194 Acetaldehyde	44		1.205	1.209	(0.288)		57343	158.908	158.90
23 Chloroprene	53		1.767	1.767	(0.423)		39226	20.7978	20.79(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		87843	20.2943	20.29
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		67899	17.9519	17.95
49 Ethyl Methacrylate	69		6.708	6.708	(1.352)		63501	17.1314	17.13
139 Diethyl ether	59		1.752	1.752	(0.419)		65444	17.6569	17.65
142 Tetrahydrofuran	42		3.848	3.840	(0.921)		23817	32.4649	32.46
156 Diisopropyl ether	45		2.997	2.997	(0.717)		262145	18.2178	18.21
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)		376228	19.4848	19.48
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		68141	17.8185	17.81
3 Chloromethane	50		1.074	1.074	(0.257)		88052	18.9802	18.98



5 Vinyl Chloride	62	1.141	1.141 (0.273)	97643	20.1507	20.15
6 Bromomethane	94	1.336	1.336 (0.320)	68529	19.8025	19.80

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011814.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	61884	18.3484	18.34
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	151100	22.2829	22.28
9 Acrolein	56	1.441	1.441	(0.345)	14787	40.7004	40.70
10 Acetone	43	1.969	1.970	(0.472)	47381	30.4178	30.41
11 1,1-Dichloroethene	96	1.909	1.910	(0.457)	89030	21.1475	21.14
15 Iodomethane	142	2.022	2.022	(0.484)	179728	35.5155	35.51
16 Acrylonitrile	53	2.532	2.528	(0.606)	54105	37.8926	37.89
17 Methylene Chloride	84	2.299	2.299	(0.550)	97474	16.8795	16.87
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	248484	18.0322	18.03
19 Carbon Disulfide	76	2.067	2.067	(0.495)	441392	40.0727	40.07
20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	88841	18.8554	18.85
21 Vinyl Acetate	43	2.997	2.993	(0.717)	476906	39.4248	39.42
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	154956	18.7391	18.73
24 2-Butanone	43	3.578	3.570	(0.856)	53320	34.3448	34.34
26 2,2-Dichloropropane	77	3.506	3.503	(0.839)	143154	20.3896	20.38
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	102099	17.8057	17.80
28 Chloroform	83	3.904	3.904	(0.935)	169116	18.2470	18.24
29 Bromochloromethane	128	3.791	3.788	(0.908)	52425	16.6984	16.69
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	241932	45.4073	45.40
31 1,1,1-Trichloroethane	97	4.080	4.076	(0.977)	150400	20.4530	20.45
32 1,1-Dichloropropene	75	4.275	4.279	(0.862)	127828	22.8741	22.87
33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	132194	20.4973	20.49
34 Carbon Tetrachloride	117	4.260	4.264	(0.859)	131043	21.9593	21.95
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	264024	46.9810	46.98
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	787144	50.0000	
37 Benzene	78	4.507	4.507	(0.909)	372894	19.8381	19.83
38 Trichloroethene	130	5.208	5.205	(1.050)	108328	20.3189	20.31
39 Bromodichloromethane	83	5.726	5.726	(1.154)	133567	18.9341	18.93
42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	96585	19.3168	19.31
44 Dibromomethane	93	5.553	5.553	(1.119)	63653	18.7295	18.72
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	161319	41.8506	41.85
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	158232	19.0993	19.09
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	721168	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	928752	52.1168	52.11
50 Toluene	91	6.445	6.445	(0.841)	415198	20.8294	20.82
51 trans-1,3-Dichloropropene	75	6.681	6.678	(1.347)	133573	19.4279	19.42
52 2-Hexanone	43	7.086	7.083	(0.924)	108337	41.3094	41.30
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	77969	19.4973	19.49
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	155087	19.7030	19.70
55 Dibromochloromethane	129	7.173	7.173	(0.935)	110969	19.2266	19.22
56 Tetrachloroethene	164	6.925	6.925	(0.903)	95478	23.1502	23.15
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	100565	20.1134	20.11
58 1-Chlorohexane	55	7.694	7.694	(1.551)	98356	25.8559	25.85
59 Chlorobenzene	112	7.694	7.694	(1.003)	279794	19.7894	19.78
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	103307	19.6340	19.63
61 Ethylbenzene	106	7.799	7.799	(1.017)	147544	22.1537	22.15
62 m,p-Xylenes	106	7.904	7.904	(1.031)	372284	43.3619	43.36
63 o-Xylene	106	8.241	8.241	(1.075)	175456	20.7056	20.70
64 Styrene	104	8.260	8.260	(1.077)	298098	20.9881	20.98
66 Bromoform	173	8.410	8.410	(1.097)	74010	18.5095	18.50
67 Isopropylbenzene	105	8.560	8.560	(1.116)	457727	23.6434	23.64
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	124002	19.4029	19.40



\$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	331339	49.7429	49.74
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	400970	50.0000	

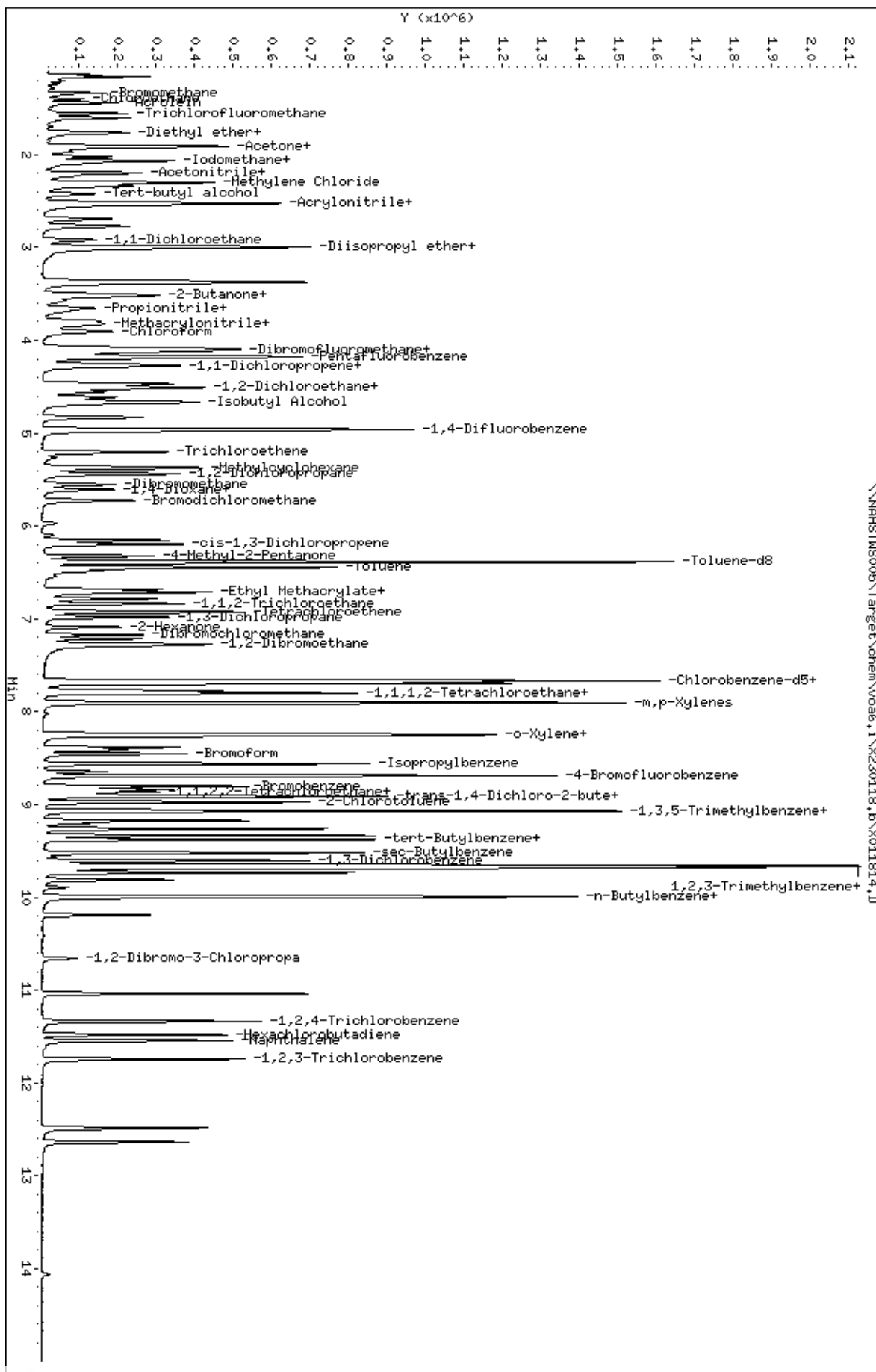
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 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	90299	20.2390	20.23(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	544455	24.5137	24.51
74 Bromobenzene	156	8.803	8.803	(0.911)	132337	20.1165	20.11
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	387981	23.6467	23.64
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	321283	22.0441	22.04
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	371694	22.3712	22.37
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	332575	24.7627	24.76
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	389965	22.5885	22.58
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	469230	26.2583	26.25
82 p-Isopropyltoluene	119	9.647	9.651	(0.998)	409401	25.5668	25.56
83 1,3-Dichlorobenzene	146	9.605	9.606	(0.994)	233465	21.3819	21.38
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	250932	21.0603	21.06
87 n-Butylbenzene	91	9.992	9.995	(1.034)	371762	25.0096	25.00
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	233542	20.7681	20.76
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	19806	19.4409	19.44
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	159950	22.5386	22.53
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	77268	24.6898	24.68
92 Naphthalene	128	11.543	11.540	(1.195)	348747	21.5985	21.59
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	147233	21.6620	21.66
M 94 1,2-Dichloroethylene (total)	96				190940	36.6611	36.66
M 95 Xylenes (total)	106				547740	64.0675	64.06
141 Cyclohexane	56	4.121	4.118	(0.987)	144856	26.5149	26.51
138 Freon TF	101	1.909	1.910	(0.457)	97552	23.9575	23.95
147 Methylcyclohexane	55	5.377	5.377	(1.084)	215206	22.3352	22.33
146 Methyl Acetate	43	2.228	2.224	(0.533)	47655	19.0922	19.09
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	155186	404.030	404.03
149 Isopropyl Alcohol	45	2.089	2.086	(0.500)	82022	408.898	408.89

QC Flag Legend

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





\\NAHSTMS0005\Target\chem\voa6.i\X230118.b\X011814.D

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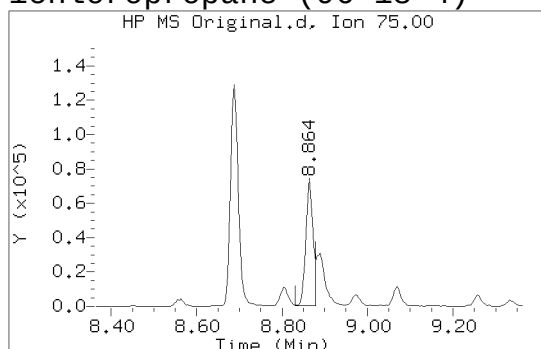
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1,2,3-Trichloropropane (96-18-4)

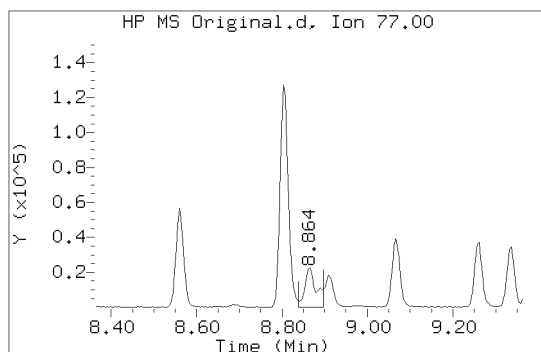
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25-Jan-2023
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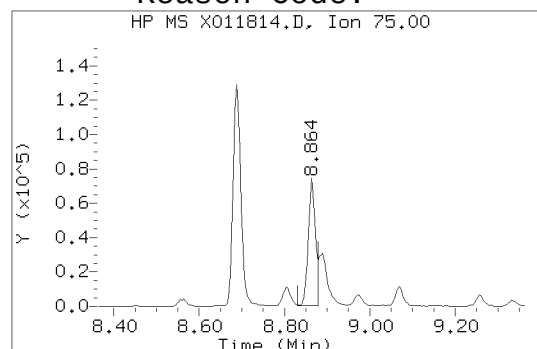
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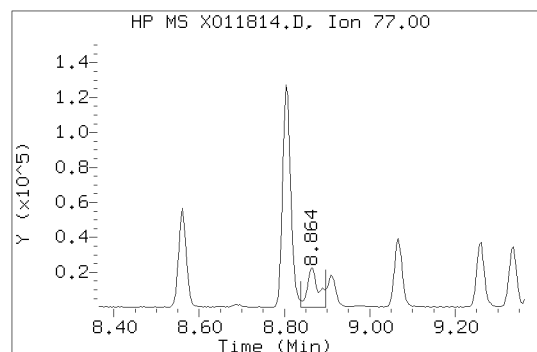
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AFTER

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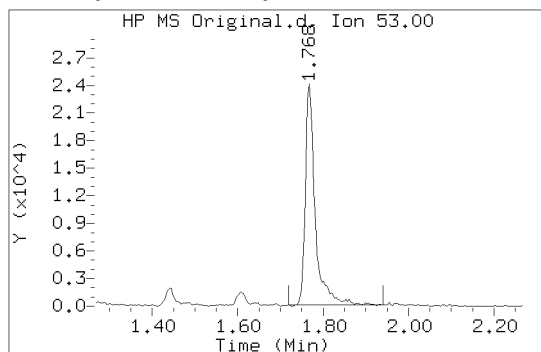


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Chloroprene (126-99-8)

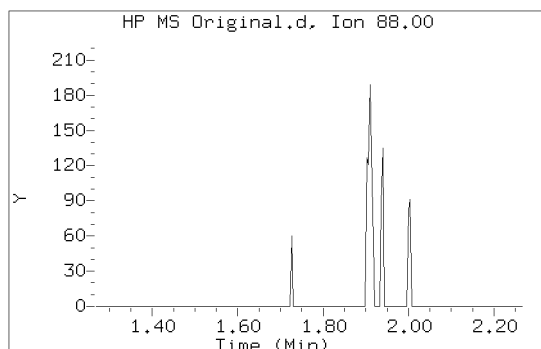
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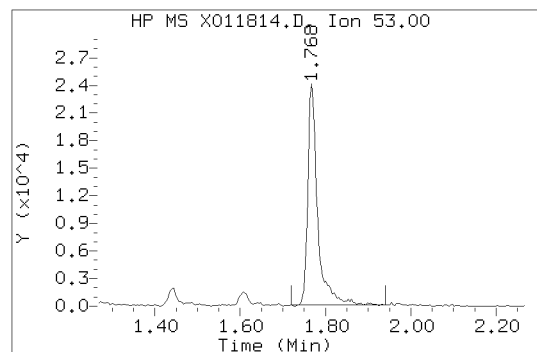
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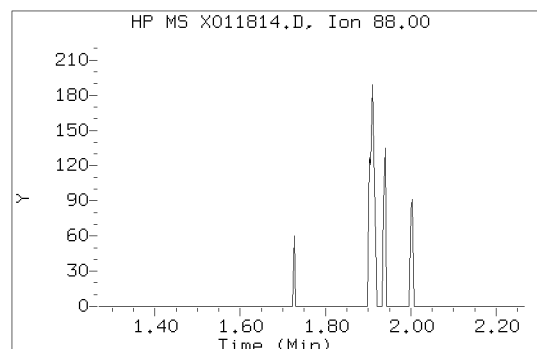
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AFTER

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Reason Code:



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011830.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011830.D
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 Inj Date : 18-JAN-2023 21:16
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV-END;CCV-END;2;;
 Misc Info : V6;WATER;0;1;
 Comment :
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 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 29 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)	447898	50.0000		
135 1,4-Dioxane	88		5.598	5.598	(1.340)	45707	1000.00	1116.36	
140 1,3-Butadiene	54		1.160	1.160	(0.278)	136977	50.0000	44.55	
25 Methacrylonitrile	41		3.814	3.814	(0.913)	164930	50.0000	52.00	
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)	557279	1000.00	1106.18	
13 Acetonitrile	39		2.195	2.195	(0.525)	188652	500.000	462.78	
14 Allyl Chloride	41		2.195	2.195	(0.525)	363937	50.0000	46.87	
4 Propionitrile	54		3.645	3.645	(0.873)	240649	500.000	526.56	
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)	74831	50.0000	52.82	
194 Acetaldehyde	44		1.209	1.209	(0.289)	89120	200.000	327.39	
23 Chloroprene	53		1.767	1.767	(0.423)	66877	50.0000	43.91(M)	
130 Ethyl Acetate	43		3.649	3.649	(0.873)	193509	50.0000	55.36	
40 Methyl Methacrylate	41		5.602	5.602	(1.341)	169697	50.0000	55.56	
49 Ethyl Methacrylate	69		6.708	6.708	(1.351)	178626	50.0000	55.65	
139 Diethyl ether	59		1.752	1.752	(0.420)	136776	50.0000	45.70	
142 Tetrahydrofuran	42		3.840	3.840	(0.919)	59166	100.000	106.45	
156 Diisopropyl ether	45		2.997	2.997	(0.717)	547415	50.0000	47.11	
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)	877682	50.0000	46.97	
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)	127329	50.0000	40.71	
3 Chloromethane	50		1.074	1.074	(0.257)	176072	50.0000	43.73	



5 Vinyl Chloride	62	1.141	1.141 (0.273)	182235	50.0000	46.57
6 Bromomethane	94	1.336	1.336 (0.320)	138905	50.0000	47.04

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011830.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	123205	50.0000	45.24
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	270838	50.0000	49.46
9 Acrolein	56	1.441	1.441	(0.345)	22292	100.000	73.54
10 Acetone	43	1.970	1.970	(0.472)	138307	100.000	110.05
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	165433	50.0000	48.66
15 Iodomethane	142	2.022	2.022	(0.484)	404210	100.000	90.89
16 Acrylonitrile	53	2.528	2.528	(0.605)	125745	100.000	109.06
17 Methylene Chloride	84	2.300	2.300	(0.550)	215372	50.0000	46.18
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	535491	50.0000	48.12
19 Carbon Disulfide	76	2.067	2.067	(0.495)	843910	100.000	94.88
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	183537	50.0000	48.24
21 Vinyl Acetate	43	2.993	2.993	(0.716)	895518	100.000	91.68
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	322602	50.0000	48.31
24 2-Butanone	43	3.570	3.570	(0.855)	144545	100.000	108.17
26 2,2-Dichloropropane	77	3.503	3.503	(0.839)	245755	50.0000	43.34
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	219054	50.0000	47.31
28 Chloroform	83	3.900	3.900	(0.934)	367030	50.0000	49.04
29 Bromochloromethane	128	3.792	3.792	(0.908)	118417	50.0000	46.71
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	212404	50.0000	49.38
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	294661	50.0000	49.62
32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	251574	50.0000	51.98
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	291934	50.0000	52.27
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	246590	50.0000	47.71
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	236780	50.0000	52.15
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	681617	50.0000	
37 Benzene	78	4.508	4.508	(0.908)	805367	50.0000	49.47
38 Trichloroethene	130	5.205	5.205	(1.048)	237254	50.0000	51.39
39 Bromodichloromethane	83	5.722	5.722	(1.153)	292391	50.0000	47.86
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	202295	100.000	116.40
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	213350	50.0000	49.27
44 Dibromomethane	93	5.553	5.553	(1.119)	144184	50.0000	48.99
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	384274	100.000	109.55
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	352781	50.0000	49.17
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	656244	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	803304	50.0000	49.53
50 Toluene	91	6.446	6.446	(0.841)	894247	50.0000	49.30
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	303871	50.0000	51.03
52 2-Hexanone	43	7.083	7.083	(0.924)	269380	100.000	112.87
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	175979	50.0000	48.35
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	354972	50.0000	49.55
55 Dibromochloromethane	129	7.173	7.173	(0.935)	257036	50.0000	48.94
56 Tetrachloroethene	164	6.925	6.925	(0.903)	185769	50.0000	49.49
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	231860	50.0000	50.96
58 1-Chlorohexane	55	7.694	7.694	(1.550)	170391	50.0000	51.72
59 Chlorobenzene	112	7.690	7.690	(1.003)	618944	50.0000	48.10
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	235966	50.0000	49.28
61 Ethylbenzene	106	7.799	7.799	(1.017)	306368	50.0000	50.55
62 m,p-Xylenes	106	7.904	7.904	(1.031)	793032	100.000	101.50
63 o-Xylene	106	8.241	8.241	(1.075)	386744	50.0000	50.15
64 Styrene	104	8.260	8.260	(1.077)	683670	50.0000	52.89
66 Bromoform	173	8.410	8.410	(1.097)	183092	50.0000	50.32
67 Isopropylbenzene	105	8.560	8.560	(1.116)	941429	50.0000	53.43



68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	286534	50.0000	46.33
\$ 69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	308986	50.0000	50.97



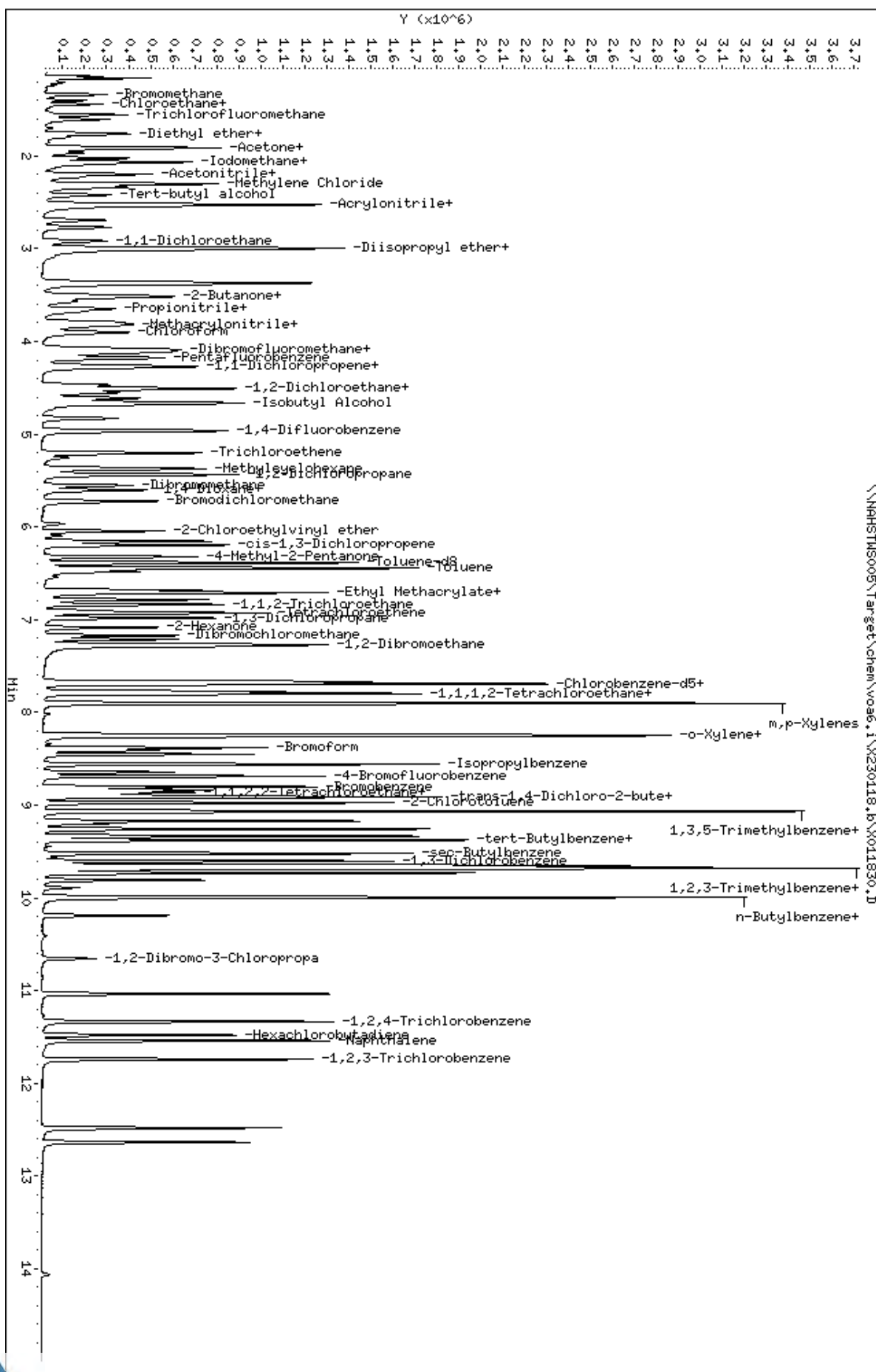
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011830.D Page 3
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	387986	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	220346	50.0000	51.03(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1115412	50.0000	51.90
74 Bromobenzene	156	8.803	8.803	(0.911)	303554	50.0000	47.68
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	837224	50.0000	52.73
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	701393	50.0000	49.73
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	830727	50.0000	51.67
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	686773	50.0000	52.84
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	867018	50.0000	51.90
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	937280	50.0000	54.20
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	851583	50.0000	54.96
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	533440	50.0000	50.48
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	572648	50.0000	49.66
87 n-Butylbenzene	91	9.992	9.992	(1.034)	747521	50.0000	50.05
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	545377	50.0000	50.12
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	50418	50.0000	50.99
90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	371288	50.0000	54.06
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	143533	50.0000	47.19
92 Naphthalene	128	11.540	11.540	(1.194)	852103	50.0000	54.53
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	346160	50.0000	52.63
M 94 1,2-Dichloroethylene (total)	96				402591	100.000	(a)
141 Cyclohexane	56	4.121	4.121	(0.987)	228359	50.0000	50.56
138 Freon TF	101	1.910	1.910	(0.457)	157541	50.0000	47.91
147 Methylcyclohexane	55	5.377	5.377	(1.083)	423021	50.0000	50.70
146 Methyl Acetate	43	2.225	2.225	(0.533)	111747	50.0000	55.44
148 Tert-Butyl alcohol	59	2.420	2.420	(0.579)	347621	1000.00	1120.85
149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	188194	1000.00	1161.90

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011830.D
 Date : 18-JAN-2023 21:16
 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

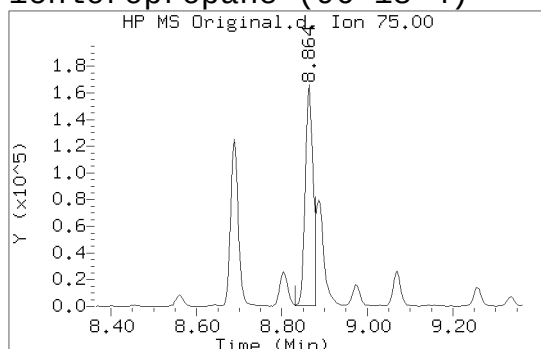


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X230118.b\\X011830.D
Inj Date : 18-JAN-2023 21:16
InstruID : voa6.i
LabSampID : CCV-END

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

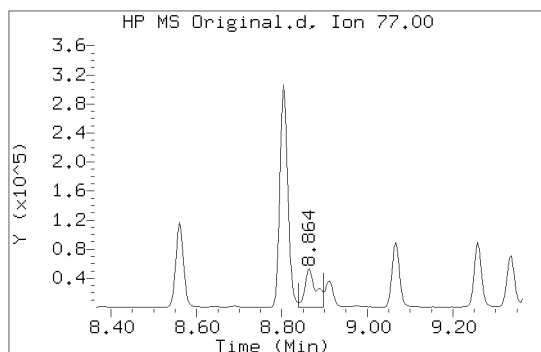
BEFORE

MASS
75
AREA
220346
HEIGHT
165857
25-Jan-2023
10:05
linh



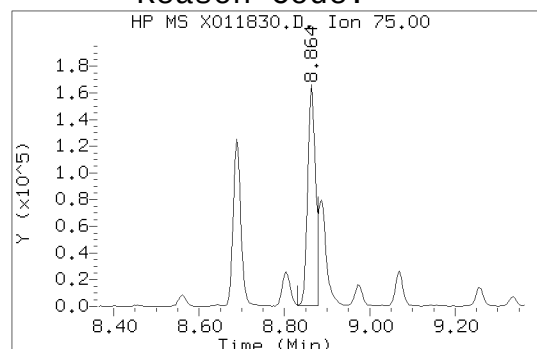
BEFORE

MASS
77
AREA
101903
HEIGHT
52916
25-Jan-2023
10:05
linh
pham



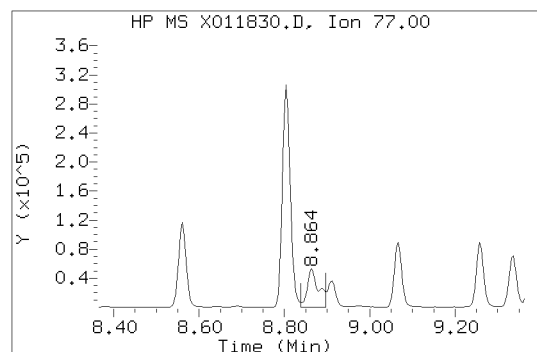
AFTER

MASS
75
AREA
220346
HEIGHT
165857
25-Jan-2023
10:05
linh



AFTER

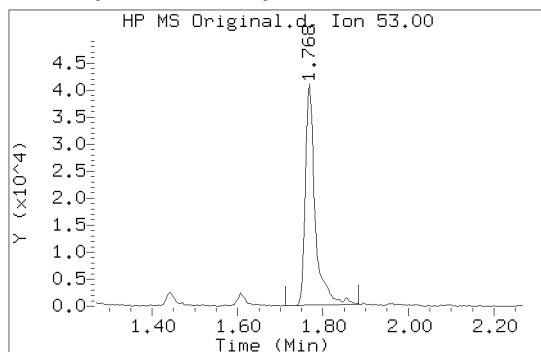
MASS
77
AREA
101903
HEIGHT
52916
25-Jan-2023
10:05
linh
pham



Chloroprene (126-99-8)

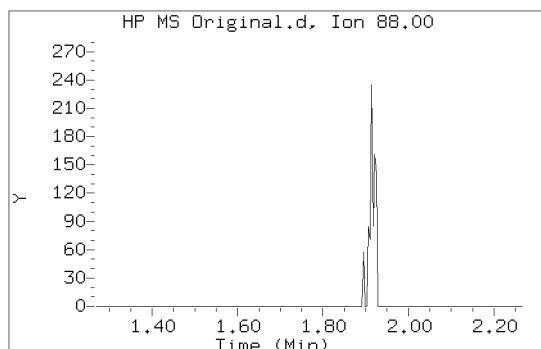
BEFORE

MASS
53
AREA
66877
HEIGHT
40890
25-Jan-2023
10:05
linh
pham



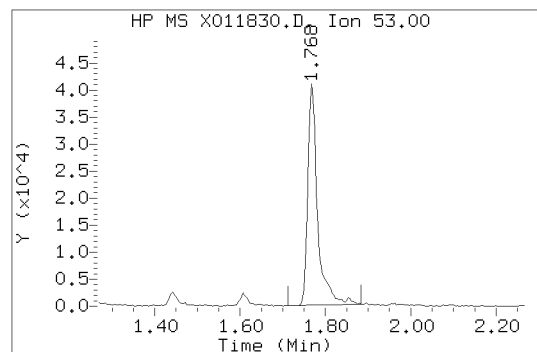
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Jan-2023
10:05
linh
pham



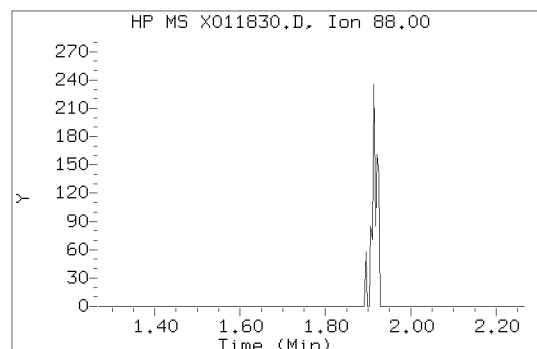
AFTER

MASS
53
AREA
66877
HEIGHT
40890
25-Jan-2023
10:05
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Jan-2023
10:05
linh
pham



HS23010587-GCSEMI-RSK-175

ALS WO# HS23010587





Form 1

Organic Analysis Data Sheet

Semi-Volatiles by RSK-175

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

HS23010587-01			Collected		Received		Matrix		Basis	
35AWW11_011223			01/12/23 07:25		01/13/23 10:35		Water		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	01/19/23 12:37	FID-4_426377	024
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	01/19/23 12:37	FID-4_426377	024
Methane	ug/L	3,220		21.4	100	100	200	01/19/23 14:28	FID-4_426377	036





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

HS23010587-02			Collected		Received		Matrix		Basis	
35AWW20_011223			01/12/23 08:15		01/13/23 10:35		Water		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	01/19/23 12:50	FID-4_426377	025
Ethene	ug/L	35.8		0.234	1.00	1.00	1	01/19/23 12:50	FID-4_426377	025
Methane	ug/L	2,600		10.7	50.0	50.0	100	01/19/23 13:43	FID-4_426377	031





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

HS23010587-03			Collected		Received		Matrix		Basis	
LHSMW07_011223			01/12/23 09:05		01/13/23 10:35		Water		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	01/19/23 12:58	FID-4_426377	026
Ethene	ug/L	49.4		0.234	1.00	1.00	1	01/19/23 12:58	FID-4_426377	026
Methane	ug/L	5,950		42.8	200	200	400	01/19/23 13:52	FID-4_426377	032





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

HS23010587-04			Collected		Received		Matrix		Basis	
35AWW06_011223			01/12/23 09:55		01/13/23 10:35		Water		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	01/19/23 13:06	FID-4_426377	027
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	01/19/23 13:06	FID-4_426377	027
Methane	ug/L	2,570		21.4	100	100	200	01/19/23 14:11	FID-4_426377	034





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

HS23010587-05			Collected		Received		Matrix		Basis	
35AWW23_011223			01/12/23 10:45		01/13/23 10:35		Water		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	01/19/23 13:15	FID-4_426377	028
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	01/19/23 13:15	FID-4_426377	028
Methane	ug/L	4,590		21.4	100	100	200	01/19/23 14:20	FID-4_426377	035





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

HS23010587-06			Collected		Received		Matrix		Basis	
35AWW19_011223			01/12/23 11:35		01/13/23 10:35		Water		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	01/19/23 13:23	FID-4_426377	029
Ethene	ug/L	3.95		0.234	1.00	1.00	1	01/19/23 13:23	FID-4_426377	029
Methane	ug/L	3.37		0.107	0.500	0.500	1	01/19/23 13:23	FID-4_426377	029





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

MBLK-230119					Collected	Received	Matrix	Basis		
MBLK-230119					NA	NA	Aqueous	Wet		
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	01/19/23 08:57	FID-4_426377	002
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	01/19/23 08:57	FID-4_426377	002
Methane	ug/L	0.500	U	0.107	0.500	0.500	1	01/19/23 08:57	FID-4_426377	002





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Form 3A

Matrix Spike/Spike Duplicate Recovery

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

		HS23010718-37		HS23010718-37MS				HS23010718-37MSD						
Sample Matrix	Aqueous	Run Date	01/19/23	01/19/23				01/19/23						
Units	µg/L	Run Time	10:40	10:49				10:57						
		Data File	012.D	013.D				014.D						
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Ethane	74-131	1	24.58	52.46	18.04	155	*	45.73	18.04	117		30	13.7	
Ethene	72-133	1	0	66.87	16.80	398	*	57.33	16.80	341	*	30	15.4	
Methane	73-125	1	7369	8019	9.647	6740	*	8036	9.647	6920	*	30	0.200	

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits

OL - Outside Limits





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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by RSK-175

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

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Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

FID-4_426377	QC ID		LCS-230119			
QC Matrix Aqueous	Units ug/L	Run Date Run Time	01/19/23 09:07			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
Ethane	74-131	18.04	19.88	110		
Ethene	72-133	16.8	16.05	96		
Methane	73-125	9.647	9.729	101		

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits





Form 4

Method Blank Summary

Semi-Volatiles by RSK-175

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

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Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

Semi-Volatiles by RSK-175

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-230119	002.D	01/19/23 08:57	FID-4_426377
LCS-230119	LCS	LCS-230119	003.D	01/19/23 09:07	FID-4_426377
BatchQC	MS	HS23010718-37MS	013.D	01/19/23 10:49	FID-4_426377
BatchQC	MSD	HS23010718-37MSD	014.D	01/19/23 10:57	FID-4_426377
35AWW11_011223	SAMP	HS23010587-01	024.D	01/19/23 12:37	FID-4_426377
35AWW20_011223	SAMP	HS23010587-02	025.D	01/19/23 12:50	FID-4_426377
LHSMW07_011223	SAMP	HS23010587-03	026.D	01/19/23 12:58	FID-4_426377
35AWW06_011223	SAMP	HS23010587-04	027.D	01/19/23 13:06	FID-4_426377
35AWW23_011223	SAMP	HS23010587-05	028.D	01/19/23 13:15	FID-4_426377
35AWW19_011223	SAMP	HS23010587-06	029.D	01/19/23 13:23	FID-4_426377
35AWW20_011223	SAMP	HS23010587-02	031.D	01/19/23 13:43	FID-4_426377
LHSMW07_011223	SAMP	HS23010587-03	032.D	01/19/23 13:52	FID-4_426377
35AWW06_011223	SAMP	HS23010587-04	034.D	01/19/23 14:11	FID-4_426377
35AWW23_011223	SAMP	HS23010587-05	035.D	01/19/23 14:20	FID-4_426377
35AWW11_011223	SAMP	HS23010587-01	036.D	01/19/23 14:28	FID-4_426377





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Form 6

Initial Calibration Data

Workorder

HS23010587

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder
HS23010587

RunID
 FID-4_322102

Volatiles Organics by Method 8260C

Calibration Files

ICAL Start Date 24-JAN-2017 0906
ICAL End Date 24-JAN-2017 1113

	Calibration File Names
Level 1	..FID-4.i\170124.b\001.D
Level 2	..FID-4.i\170124.b\002.D
Level 3	..FID-4.i\170124.b\003.D
Level 4	..FID-4.i\170124.b\004.D
Level 5	..FID-4.i\170124.b\005.D
Level 6	..FID-4.i\170124.b\006.D
Level 7	..FID-4.i\170124.b\007.D

	Level 1 10.00 Level 7 1000.0	Level 2 25.00	Level 3 50.00	Level 4 100.00	Level 5 250.00	Level 6 500.00					%RSD or R ²	Q
Compound							Curve	b	m1	m2		
Methane	969 1082	978	1020	881	961	931	AVRG		974		6.55041	
Ethene	536 829	567	565	516	665	426	AVRG		586		21.93197	
Ethane	602 999	670	659	597	809	818	AVRG		736		19.88517	
Propane	500 96509	1279	2602	4785	18294	38286	QUAD	0.97987	0.00153	-4.583e-00	0.99914	
N-Butane	438 114164	936	2034	3864	18446	42817	QUAD	2.46870	0.00183	-5.537e-00	0.99808	
Pentane	115 488	3945	2080	950	501	412	AVRG		1213		112	*

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





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Form 6I

Initial Calibration Verification (ICV)

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder
HS23010587

RunID

FID-4_322102

Volatiles Organics by Method 8260C

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
Methane	9.647	9.597	99.49	75-125	
Ethene	16.800	19.090	113.63	75-125	
Ethane	18.043	19.657	108.95	75-125	
Propane	26.463	27.238	102.93	75-125	
N-Butane	34.955	36.010	103.02	75-125	





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Form 7

Continuing Calibration Verification (CCV)

Workorder

HS23010587

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

RunID

FID-4_426377

Volatiles Organics by Method 8260C

Instrument ID FID-4.i Injection Date 19-JAN-2023 0848
Lab File ID 001.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{RRF}$ / RRF / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	1010	1010	0.010	-3.60682	20.0	Averaged	
Ethene	586	602	602	0.010	-2.82609	20.0	Averaged	
Ethane	719	841	841	0.010	-16.91026	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

RunID

FID-4_426377

Volatiles Organics by Method 8260C

Instrument ID FID-4.i Injection Date 19-JAN-2023 1024
 Lab File ID 011.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
 Analysis Type WATER ICAL Times 0906 1113
 Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{\text{RRF}} /$ RRF / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	968	968	0.010	0.73095	20.0	Averaged	
Ethene	586	574	574	0.010	2.03710	20.0	Averaged	
Ethane	719	800	800	0.010	-11.17914	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

RunID

FID-4_426377

Volatiles Organics by Method 8260C

Instrument ID FID-4.i Injection Date 19-JAN-2023 1216
 Lab File ID 022.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
 Analysis Type WATER ICAL Times 0906 1113
 Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{\text{RRF}} /$ RRF / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	1038	1038	0.010	-6.41362	20.0	Averaged	
Ethene	586	616	616	0.010	-5.19689	20.0	Averaged	
Ethane	719	821	821	0.010	-14.09092	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

RunID

FID-4_426377

Volatiles Organics by Method 8260C

Instrument ID FID-4.i Injection Date 19-JAN-2023 1403
Lab File ID 033.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{\text{RRF}}$ / RRF / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	983	983	0.010	-0.77877	20.0	Averaged	
Ethene	586	604	604	0.010	-3.18070	20.0	Averaged	
Ethane	719	813	813	0.010	-12.96626	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

RunID

FID-4_426377

Volatiles Organics by Method 8260C

Instrument ID FID-4.i Injection Date 19-JAN-2023 1435
Lab File ID 037.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{\text{RRF}}$ / RRF / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	926	926	0.010	5.04746	20.0	Averaged	
Ethene	586	556	556	0.010	5.08673	20.0	Averaged	
Ethane	719	819	819	0.010	-13.82131	20.0	Averaged	





right solutions.
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Analysis Run Log

Semi-Volatiles by RSK-175

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com



FID04 -Logbook

Batch: 26730
Date: 01-24-2017
Method: RSK 175 ICAL
Comments: Target Sequence 170124

Analyst: Nosa Izekor
Reviewer:
Laboratory: Houston

#	<u>Samp ID</u>	<u>Type</u>	<u>Analyzed</u>	<u>DF</u>	<u>Init Wt/Vol</u>	<u>Final Vol</u>	<u>File ID</u>	<u>Matrix</u>	<u>Status</u>	<u>pH</u>
1	ICAL1	CALIB_1	01-24-2017 09:06 am	1.00	0.00 mL	0.00 mL	001.D	Liquid	Y	NA
2	ICAL2	CALIB_2	01-24-2017 09:30 am	1.00	0.00 mL	0.00 mL	002.D	Liquid	Y	NA
3	ICAL3	CALIB_3	01-24-2017 09:59 am	1.00	0.00 mL	0.00 mL	003.D	Liquid	Y	NA
4	ICAL4	CALIB_4	01-24-2017 10:15 am	1.00	0.00 mL	0.00 mL	004.D	Liquid	Y	NA
5	ICAL5	CALIB_5	01-24-2017 10:39 am	1.00	0.00 mL	0.00 mL	005.D	Liquid	Y	NA
6	ICAL6	CALIB_6	01-24-2017 10:57 am	1.00	0.00 mL	0.00 mL	006.D	Liquid	Y	NA
7	ICAL7	CALIB_7	01-24-2017 11:13 am	1.00	0.00 mL	0.00 mL	007.D	Liquid	Y	NA
8	ICV	METHSPIKI	01-24-2017 12:05 pm	1.00	0.00 mL	0.00 mL	008.D	Liquid	Y	NA
9	LCS-170124	LCS	01-24-2017 12:24 pm	1.00	0.00 mL	0.00 mL	009.D	Liquid	Y	NA
10	LCSD-170124	LCSD	01-24-2017 12:40 pm	1.00	0.00 mL	0.00 mL	010.D	Liquid	Y	NA
11	MBLK-170124	MBLK	01-24-2017 12:57 pm	1.00	0.00 mL	0.00 mL	011.D	Liquid	Y	NA
12	HS17010778-01	SAMP	01-24-2017 01:14 pm	1.00	0.00 mL	0.00 mL	012.D	Liquid	Y	NA
13	HS17010779-01	SAMP	01-24-2017 01:31 pm	1.00	0.00 mL	0.00 mL	013.D	Liquid	Y	NA
14	HS17010779-01DUP	SAMP	01-24-2017 01:47 pm	1.00	0.00 mL	0.00 mL	014.D	Liquid	Y	NA
15	CCV	CCV	01-24-2017 02:01 pm	1.00	0.00 mL	0.00 mL	015.D	Liquid	Y	NA

Chemical	Value
ICAL STD ID	30010700217
ICV STD ID	30010700610





Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010587

RUNID

FID-4_426377

Semi-Volatiles by RSK-175

Run ID	FID-4_426377	Start Date	01/19/23	EndDate	01/19/23	Matrix	Aqueous
Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF		
RSK-CCV	CCV	RSK-CCV	001.D	01/19/23 08:48	1		
MBLK-230119	MBLK	MBLK-230119	002.D	01/19/23 08:57	1		
LCS-230119	LCS	LCS-230119	003.D	01/19/23 09:07	1		
RSK-CCV	CCV	RSK-CCV	011.D	01/19/23 10:24	1		
BatchQC	MS	HS23010718-37MS	013.D	01/19/23 10:49	1		
BatchQC	MSD	HS23010718-37MSD	014.D	01/19/23 10:57	1		
RSK-CCV	CCV	RSK-CCV	022.D	01/19/23 12:16	1		
35AWW11_011223	SAMP	HS23010587-01	024.D	01/19/23 12:37	1		
35AWW20_011223	SAMP	HS23010587-02	025.D	01/19/23 12:50	1		
LHSMW07_011223	SAMP	HS23010587-03	026.D	01/19/23 12:58	1		
35AWW06_011223	SAMP	HS23010587-04	027.D	01/19/23 13:06	1		
35AWW23_011223	SAMP	HS23010587-05	028.D	01/19/23 13:15	1		
35AWW19_011223	SAMP	HS23010587-06	029.D	01/19/23 13:23	1		
35AWW20_011223	SAMP	HS23010587-02	031.D	01/19/23 13:43	100		
LHSMW07_011223	SAMP	HS23010587-03	032.D	01/19/23 13:52	400		
RSK-CCV	CCV	RSK-CCV	033.D	01/19/23 14:03	1		
35AWW06_011223	SAMP	HS23010587-04	034.D	01/19/23 14:11	200		
35AWW23_011223	SAMP	HS23010587-05	035.D	01/19/23 14:20	200		
35AWW11_011223	SAMP	HS23010587-01	036.D	01/19/23 14:28	200		
RSK-CCV	CCV	RSK-CCV	037.D	01/19/23 14:35	1		





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Raw Data FID-4 322102

Semi-Volatiles by RSK-175

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
 Lab Smp Id: ICAL1 Client Smp ID: ICAL1
 Inj Date : 24-JAN-2017 09:06
 Operator : JA Inst ID: FID-4.i
 Smp Info : ICAL1;ICAL1;;;
 Misc Info :
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	1.043	1.043	0.000	374		0.38600	0.383(a)
2 Ethene	1.553	1.553	0.000	361		0.67400	0.615(a)
3 Ethane	1.716	1.716	0.000	435		0.72200	0.590(a)
4 Propane	4.073	4.073	0.000	500		1.05900	1.743
5 N-Butane	7.640	7.640	0.000	438		1.39800	3.271

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\001.D

Date : 24-JAN-2017 09:06

Client ID: ICAL1

Sample Info: ICAL1;ICAL1;??

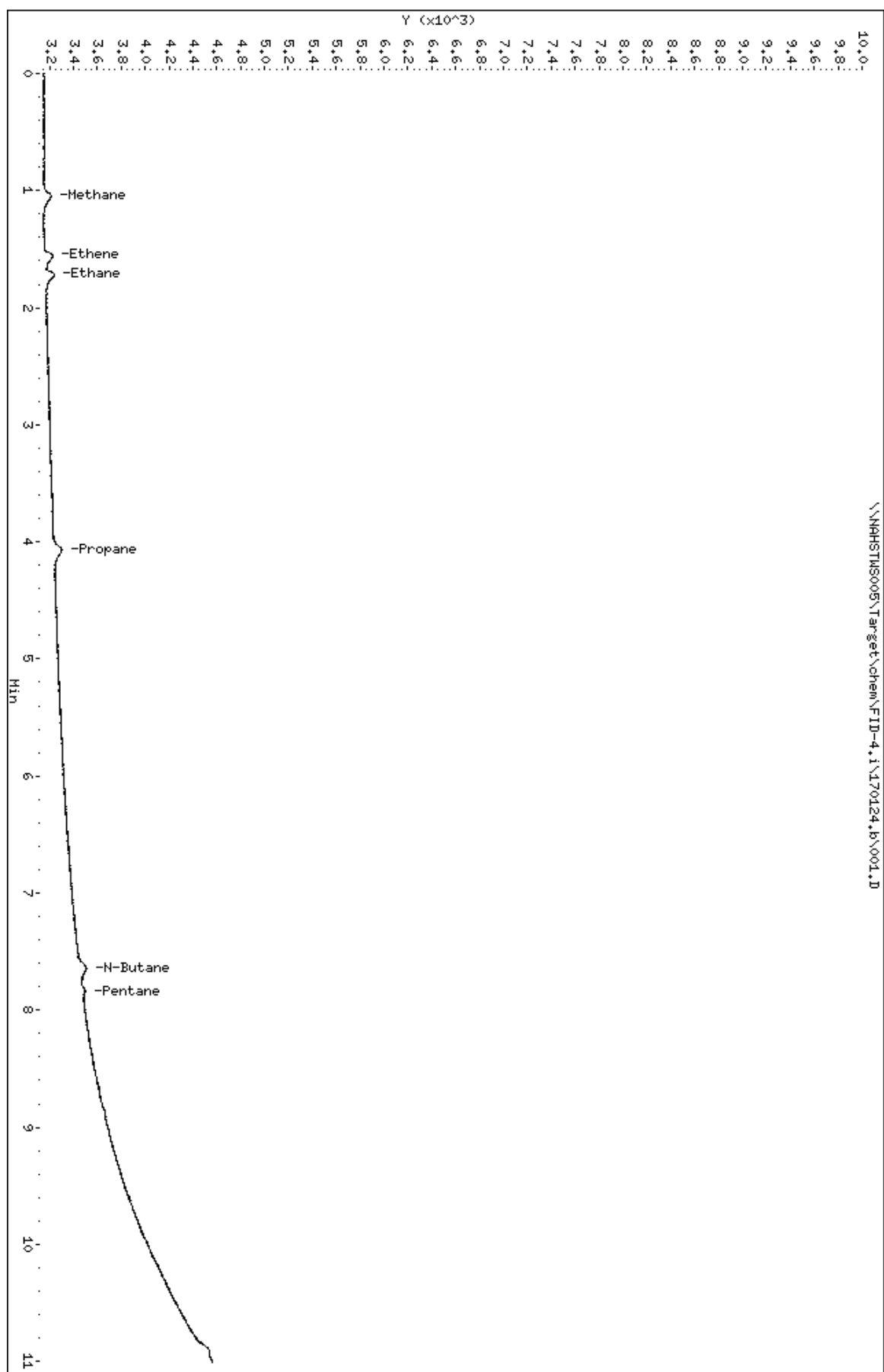
Column phase: Rtx-PL01

Instrument: FID-4.i

Operator: JA

Column diameter: 0.53

Page 1



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Inj Date : 24-JAN-2017 09:06
InstruID : FID-4.i
LabSampID : ICAL1

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
 Lab Smp Id: ICAL2 Client Smp ID: ICAL2
 Inj Date : 24-JAN-2017 09:30
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL2;ICAL2;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 09:06 Cal File: 001.D
 Als bottle: 2 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	1.023	1.023	0.000	944		0.96500	0.968
2 Ethene	1.560	1.560	0.000	956		1.68500	1.630
3 Ethane	1.723	1.723	0.000	1209		1.80400	1.641
4 Propane	4.123	4.123	0.000	1279		2.64600	2.927
5 N-Butane	7.716	7.716	0.000	936		3.49600	4.180



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\002.D

Page 1

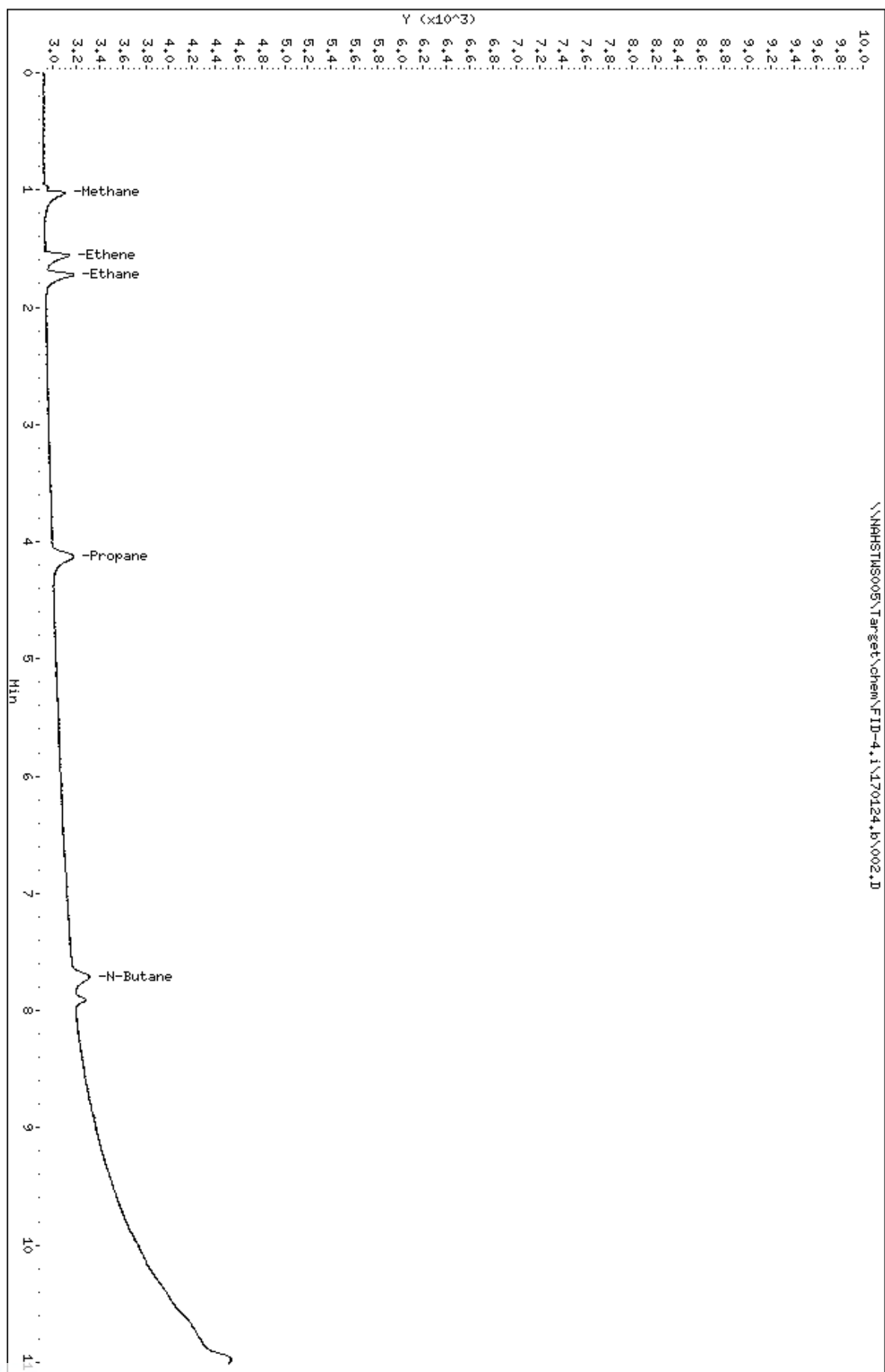
Date : 24-JAN-2017 09:30

Client ID: ICAL2

Instrument: FID-4.i

Sample Info: ICAL2;ICAL2;f

Column phase: Rtx-PL0T

Operator: MA
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Inj Date : 24-JAN-2017 09:30
InstruID : FID-4.i
LabSampID : ICAL2

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
 Lab Smp Id: ICAL3 Client Smp ID: ICAL3
 Inj Date : 24-JAN-2017 09:59
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL3;ICAL3;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 09:30 Cal File: 002.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	1.043	1.043	0.000	1967		1.92900	2.018
2 Ethene	1.570	1.570	0.000	1904		3.37000	3.247
3 Ethane	1.736	1.736	0.000	2378		3.60900	3.229
4 Propane	4.123	4.123	0.000	2602		5.29300	4.926
5 N-Butane	7.703	7.703	0.000	2034		6.99100	6.176



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\003.D

Page 1

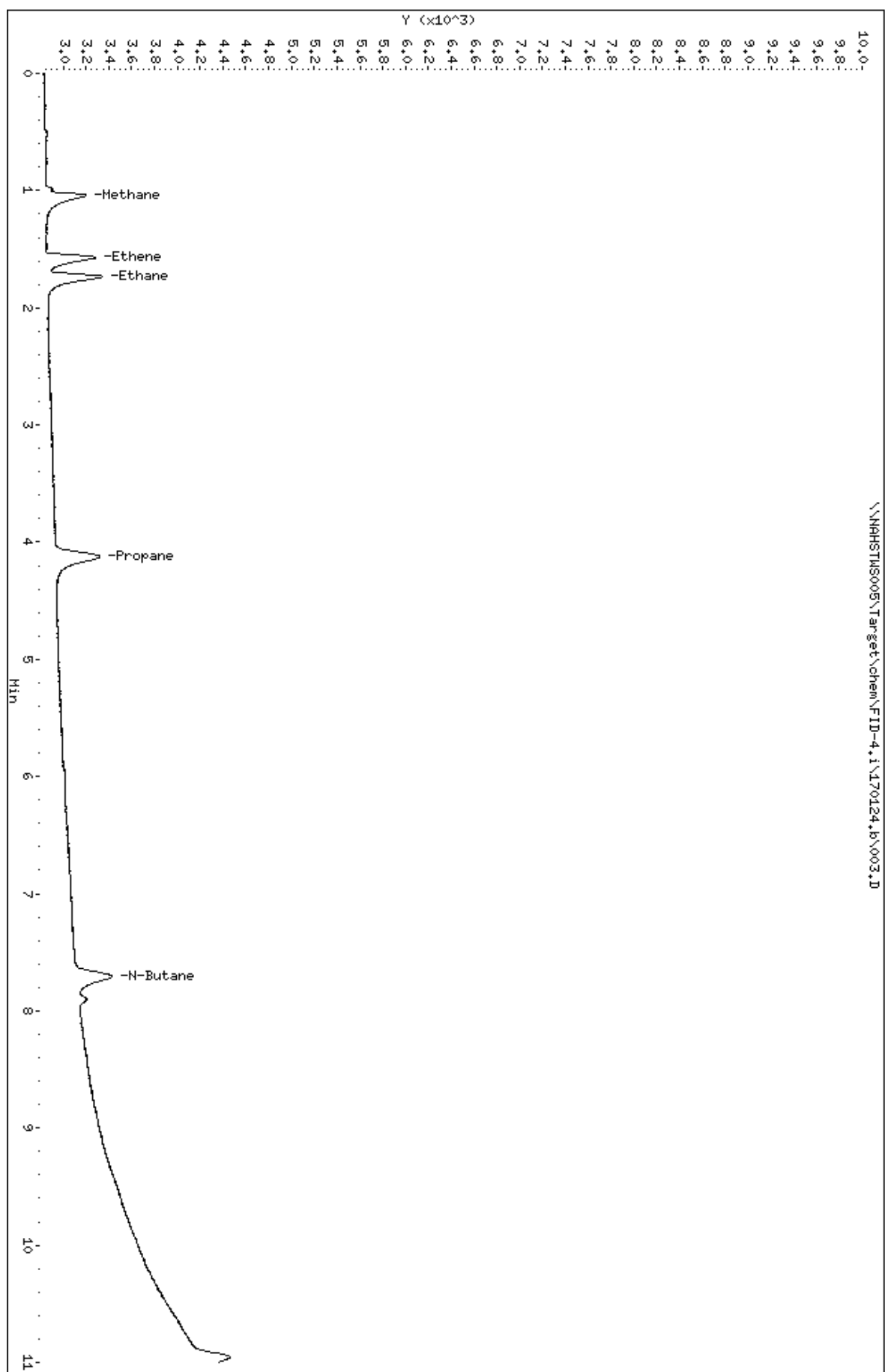
Date : 24-JAN-2017 09:59

Client ID: ICAL3

Instrument: FID-4.i

Sample Info: ICAL3;ICAL3;??

Column phase: Rtx-PL0T

Operator: MA
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Inj Date : 24-JAN-2017 09:59
InstruID : FID-4.i
LabSampID : ICAL3

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
 Report Date: 28-Sep-2022 10:02

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
 Lab Smp Id: ICAL4 Client Smp ID: ICAL4
 Inj Date : 24-JAN-2017 10:15
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL4;ICAL4;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
 Als bottle: 4 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	1.033	1.033	0.000	3399		3.85900	3.488
2 Ethene	1.563	1.563	0.000	3478		6.74000	5.932
3 Ethane	1.726	1.726	0.000	4310		7.21700	5.853
4 Propane	4.120	4.120	0.000	4785		10.5850	8.190
5 N-Butane	7.703	7.703	0.000	3864		13.9820	9.473(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\004.D

Date : 24-JAN-2017 10:15

Client ID: ICAL4

Sample Info: ICAL4;ICAL4;;;

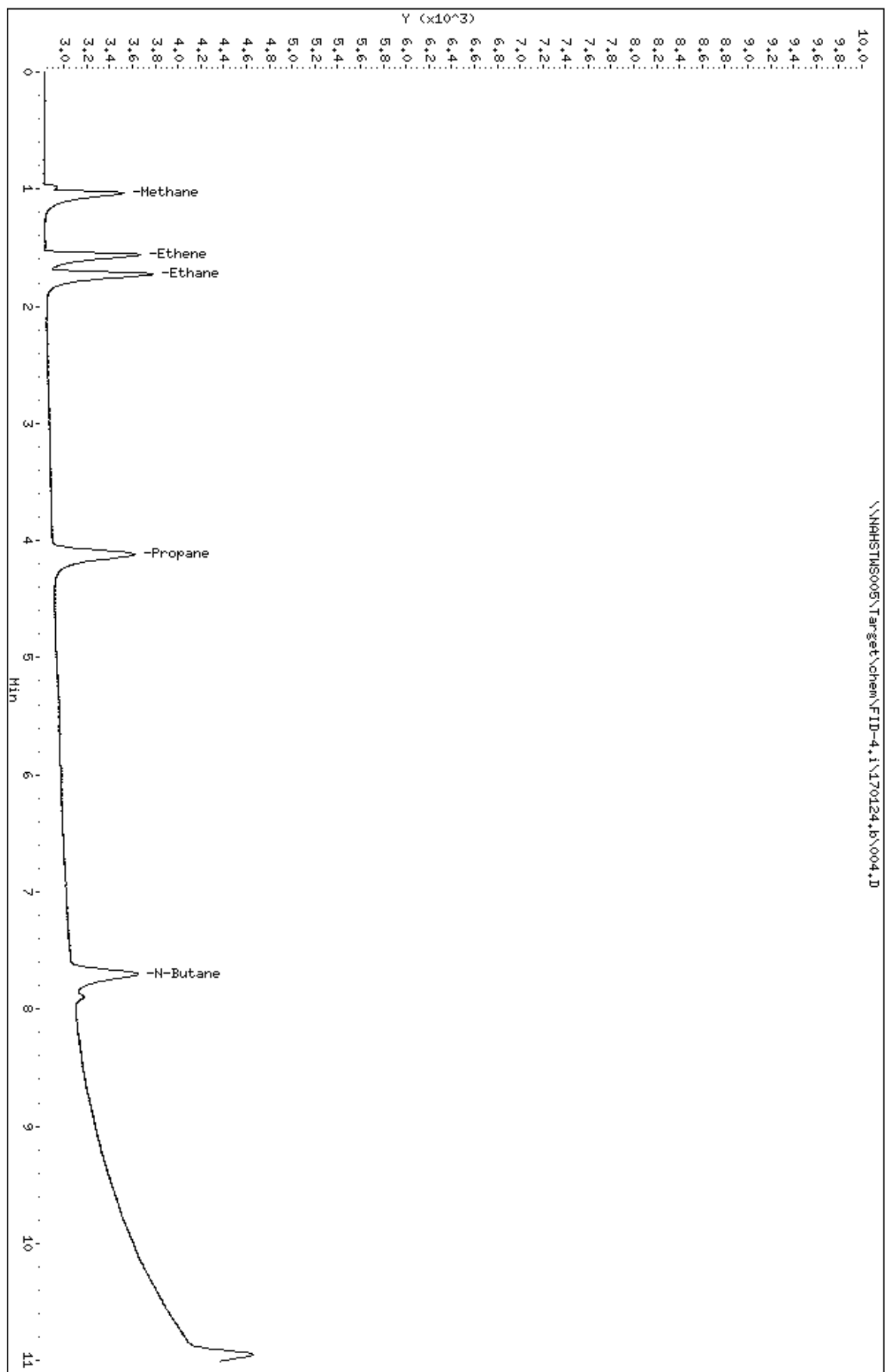
Page 1

Column phase: Rtx-PL0T

Instrument: FID-4.i

Operator: HQ

Column diameter: 0.53

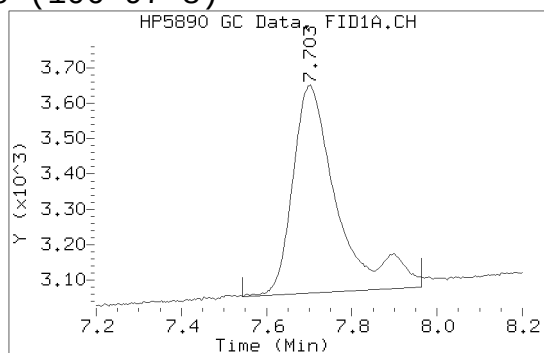


Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
Inj Date : 24-JAN-2017 10:15
InstruID : FID-4.i
LabSampID : ICAL4

N-Butane (106-97-8)

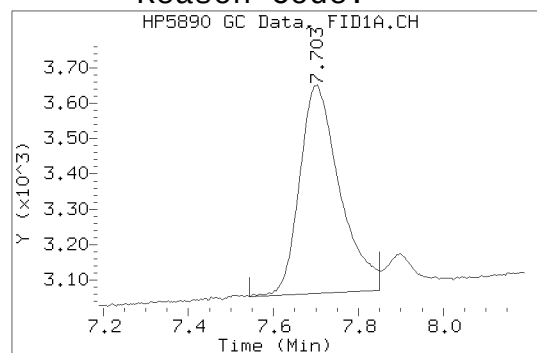
BEFORE

MASS
100
AREA
4292
HEIGHT
591
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
3864
HEIGHT
591
28-Sep-2022
10:02
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
 Report Date: 28-Sep-2022 10:02

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
 Lab Smp Id: ICAL5 Client Smp ID: ICAL5
 Inj Date : 24-JAN-2017 10:39
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL5;ICAL5;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 5 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	1.043	1.043	0.000	9268		9.64700	9.511
2 Ethene	1.570	1.570	0.000	11210		16.8500	19.121
3 Ethane	1.733	1.733	0.000	14588		18.0430	19.811
4 Propane	4.120	4.120	0.000	18294		26.4630	27.415
5 N-Butane	7.700	7.700	0.000	18446		34.9550	34.419(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\005.D

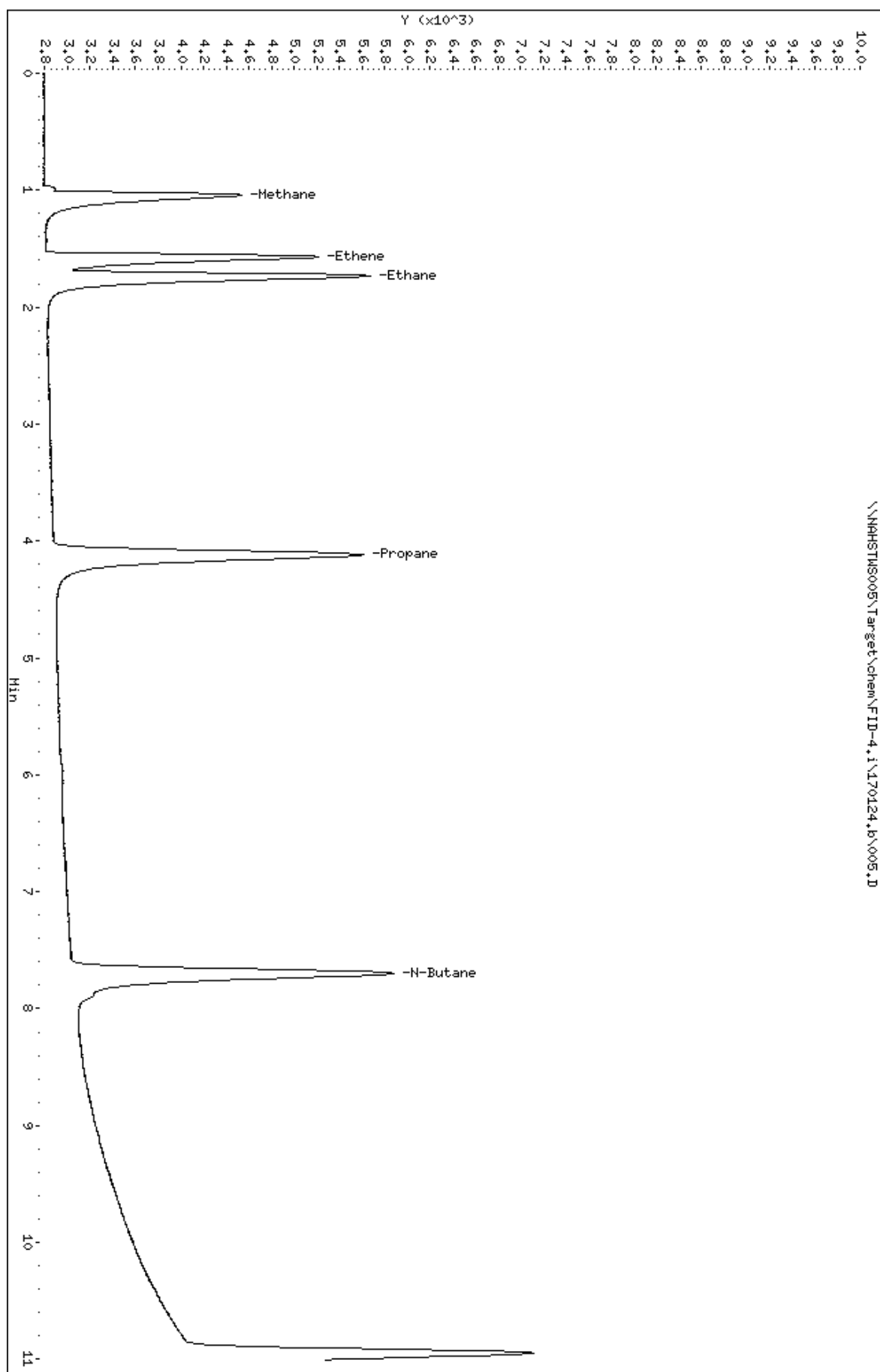
Date : 24-JAN-2017 10:39

Client ID: ICAL5

Sample Info: ICAL5;ICAL5;;

Page 1

Column phase: Rtx-PL0T

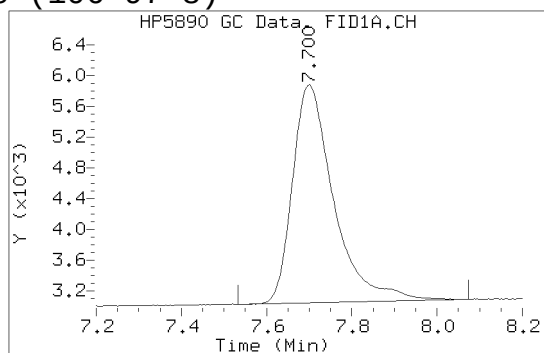
Instrument: FID-4.i
Operator: MH
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
Inj Date : 24-JAN-2017 10:39
InstruID : FID-4.i
LabSampID : ICAL5

N-Butane (106-97-8)

BEFORE

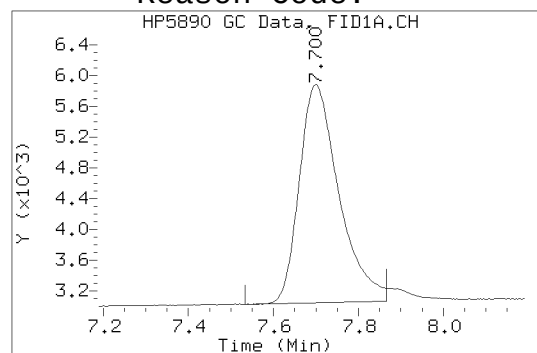
MASS
100
AREA
19142
HEIGHT
2839
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
18446
HEIGHT
2838
28-Sep-2022
10:02
linh
pham

Reason Code:



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
 Lab Smp Id: ICAL6 Client Smp ID: ICAL6
 Inj Date : 24-JAN-2017 10:57
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL6;ICAL6;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:39 Cal File: 005.D
 Als bottle: 6 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====	=====
1 Methane	1.023	1.023	0.000	17957	19.2940	18.429
2 Ethene	1.550	1.550	0.000	22910	53.8200	39.078
3 Ethane	1.716	1.716	0.000	29505	36.0860	40.070
4 Propane	4.110	4.110	0.000	38286	52.9260	52.796
5 N-Butane	7.696	7.696	0.000	42817	69.9110	70.855



Data File: \\NAHSTMS005\Target\chem\FID-4,i\170124,b\006.D

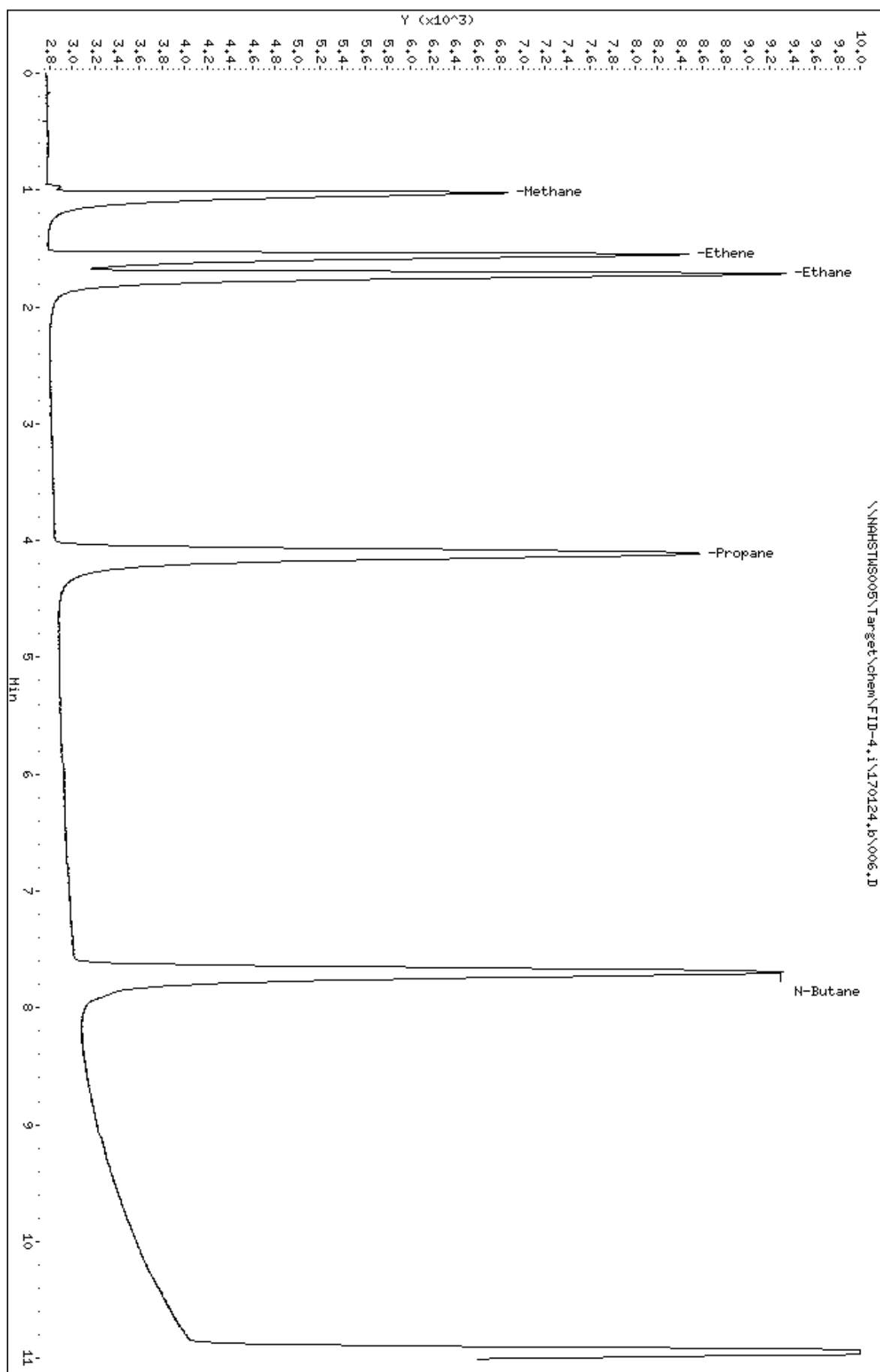
Date : 24-JAN-2017 10:57

Client ID: ICAL6

Sample Info: ICAL6;ICAL6;;

Page 1

Column phase: Rtx-PL01

Operator: HQ
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Inj Date : 24-JAN-2017 10:57
InstruID : FID-4.i
LabSampID : ICAL6

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
 Lab Smp Id: ICAL7 Client Smp ID: ICAL7
 Inj Date : 24-JAN-2017 11:13
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL7;ICAL7;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:57 Cal File: 006.D
 Als bottle: 7 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====	=====
1 Methane	1.030	1.030	0.000	41736	38.5880	42.833(A)
2 Ethene	1.556	1.556	0.000	55865	67.4000	95.291(A)
3 Ethane	1.723	1.723	0.000	72124	72.1720	97.951(A)
4 Propane	4.113	4.113	0.000	96509	105.852	105.844
5 N-Butane	7.690	7.690	0.000	114164	139.821	139.707

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\007.D

Page 1

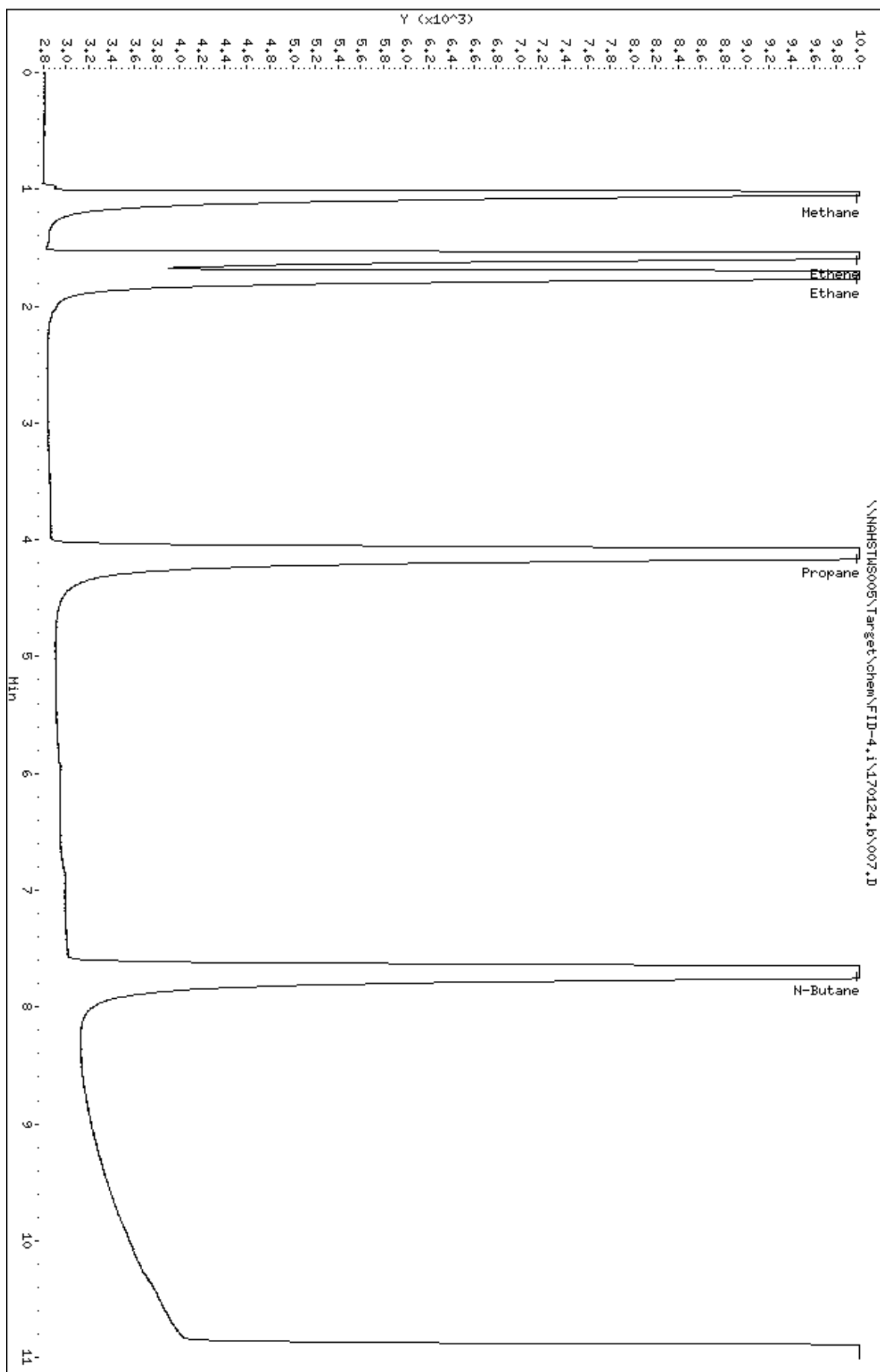
Date : 24-JAN-2017 11:13

Client ID: ICAL7

Instrument: FID-4.i

Sample Info: ICAL7;ICAL7;??

Column phase: Rtx-PL0T

Operator: M4
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Inj Date : 24-JAN-2017 11:13
InstruID : FID-4.i
LabSampID : ICAL7

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
 Lab Smp Id: ICV Client Smp ID: ICV
 Inj Date : 24-JAN-2017 12:05
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICV;ICV;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
 Als bottle: 8 QC Sample: METHSPIKE
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.046	1.030	0.016	9352	9.59792	9.597
2 Ethene	1.573	1.556	0.017	11192	19.0906	19.090
3 Ethane	1.736	1.723	0.013	14474	19.6571	19.657
4 Propane	4.116	4.113	0.003	18164	27.2381	27.238
5 N-Butane	7.696	7.690	0.006	19425	36.0103	36.010



Data File: \\NAHSTMS005\Target\chem\FID-4.1\170124.b\008.D

Date : 24-JAN-2017 12:05

Client ID: ICV

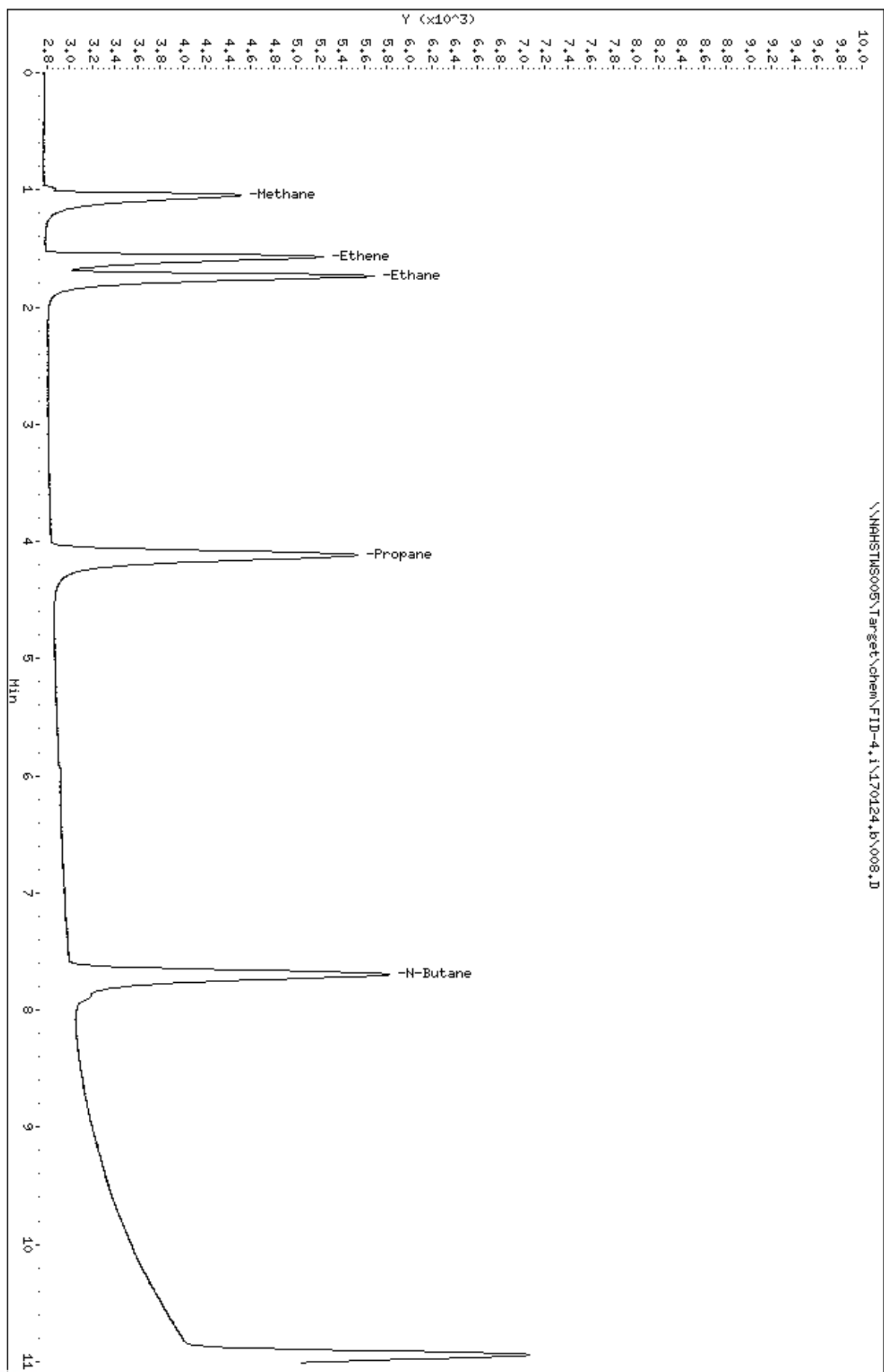
Sample Info: ICV;ICV;;

Instrument: FID-4.1

Operator: MR

Column diameter: 0.53

Column phase: Rtx-PL0T



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Inj Date : 24-JAN-2017 12:05
InstruID : FID-4.i
LabSampID : ICV

NO MANUAL INTEGRATIONS





right solutions.
right partner.

Raw Data FID-4 426377

Semi-Volatiles by RSK-175

Workorder
HS23010587

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\001.D
 Report Date: 19-Jan-2023 08:56

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\001.D
 Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
 Inj Date : 19-JAN-2023 08:48
 Operator : PL Inst ID: FID-4.i
 Smp Info : RSK-CCV;RSK-CCV;2;4
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 19-Jan-2023 08:56 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====	=====
1 Methane	0.420	0.420	0.000	9745	9.64700	9.994
2 Ethene	0.643	0.643	0.000	10149	16.8500	17.326(M)
3 Ethane	0.713	0.713	0.000	15177	18.0430	21.094(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\001.D

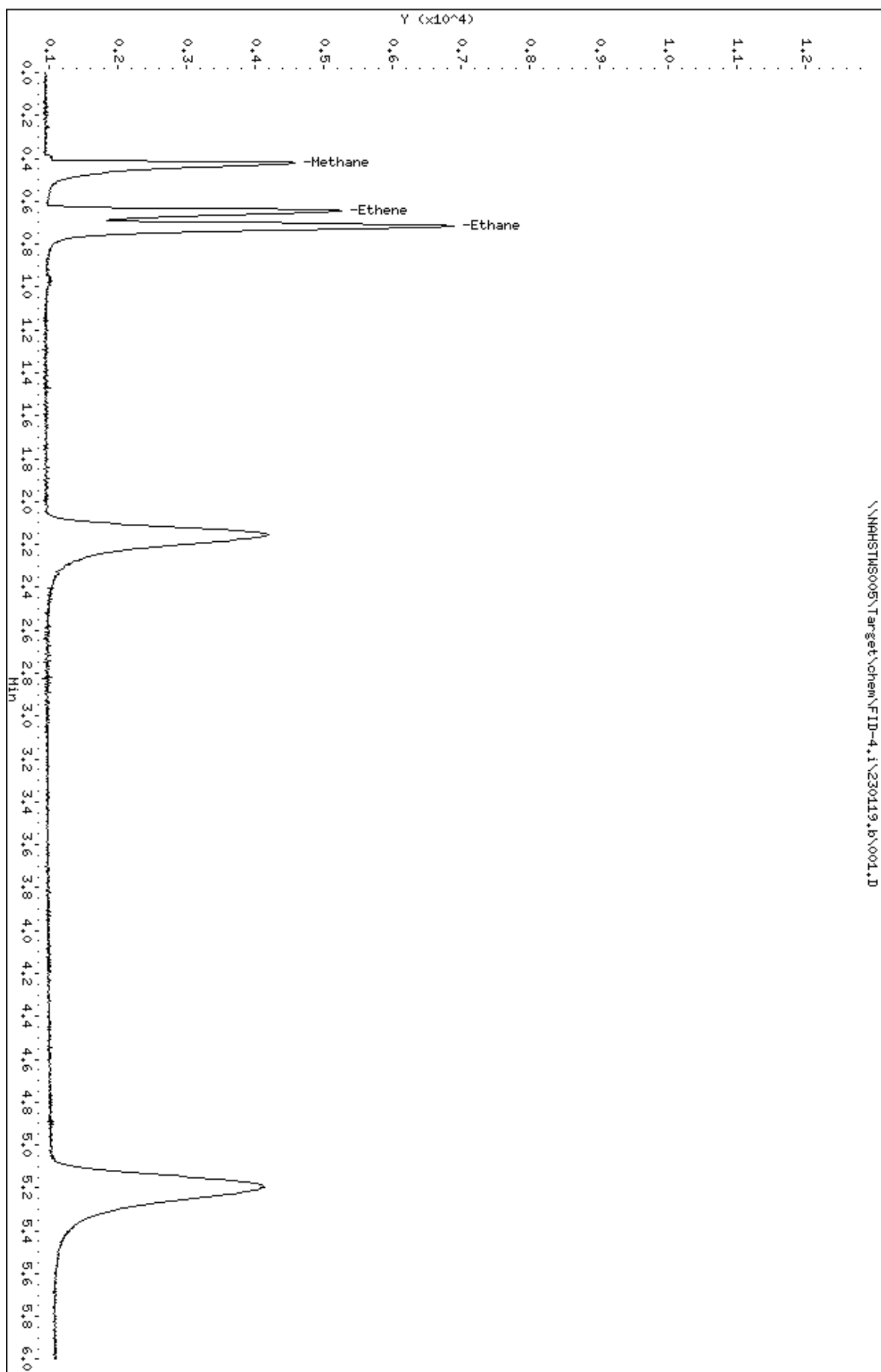
Date: 19-JAN-2023 08:48

Client ID: RSK-CCV

Sample Info: RSK-CCV;RSK-CCV;2;4

Instrument: FID-4.i

Column phase: Rtx-PL01

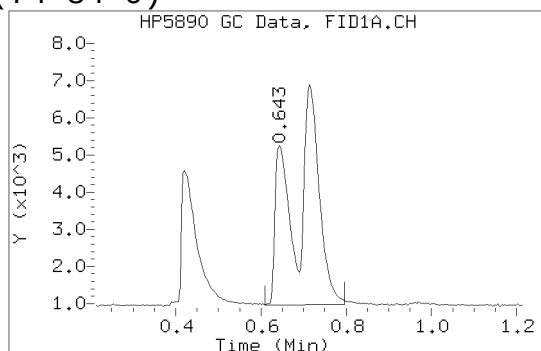
Operator: PL
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\001.D
 Inj Date : 19-JAN-2023 08:48
 InstruID : FID-4.i
 LabSampID : RSK-CCV

Ethane (74-84-0)

BEFORE

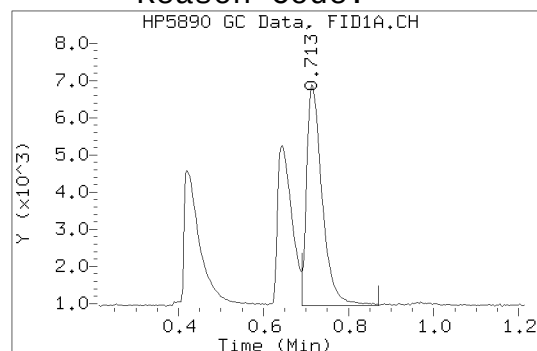
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44
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24520
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4290
19-Jan-2023
08:55
ALSHS
Server



AFTER

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AREA
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HEIGHT
5941
19-Jan-2023
08:56
ALSHS
Ser

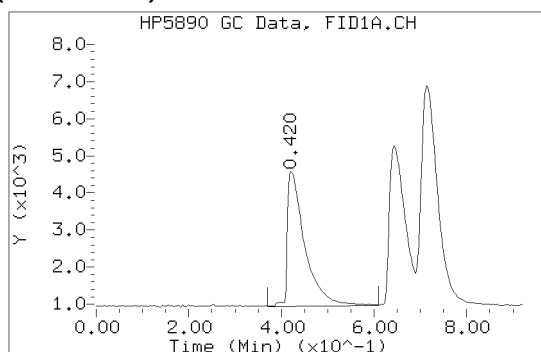
Reason Code:



Ethene (74-85-1)

BEFORE

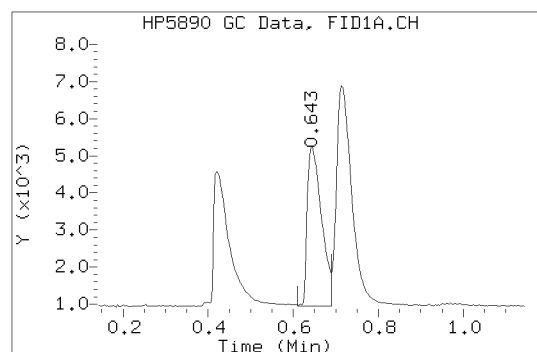
MASS
100
AREA
0
HEIGHT
0
19-Jan-2023
08:55
ALSHS
Server



AFTER

MASS
100
AREA
10149
HEIGHT
4313
19-Jan-2023
08:56
ALSHS
Ser

Reason Code:



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\002.D

Page 1

Report Date: 19-Jan-2023 09:54

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\002.D
Lab Smp Id: MBLK-230119 Client Smp ID: MBLK-230119
Inj Date : 19-JAN-2023 08:57
Operator : PL Inst ID: FID-4.i
Smp Info : MBLK-230119;MBLK-230119;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
Meth Date : 19-Jan-2023 08:56 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\002.D

Page 1

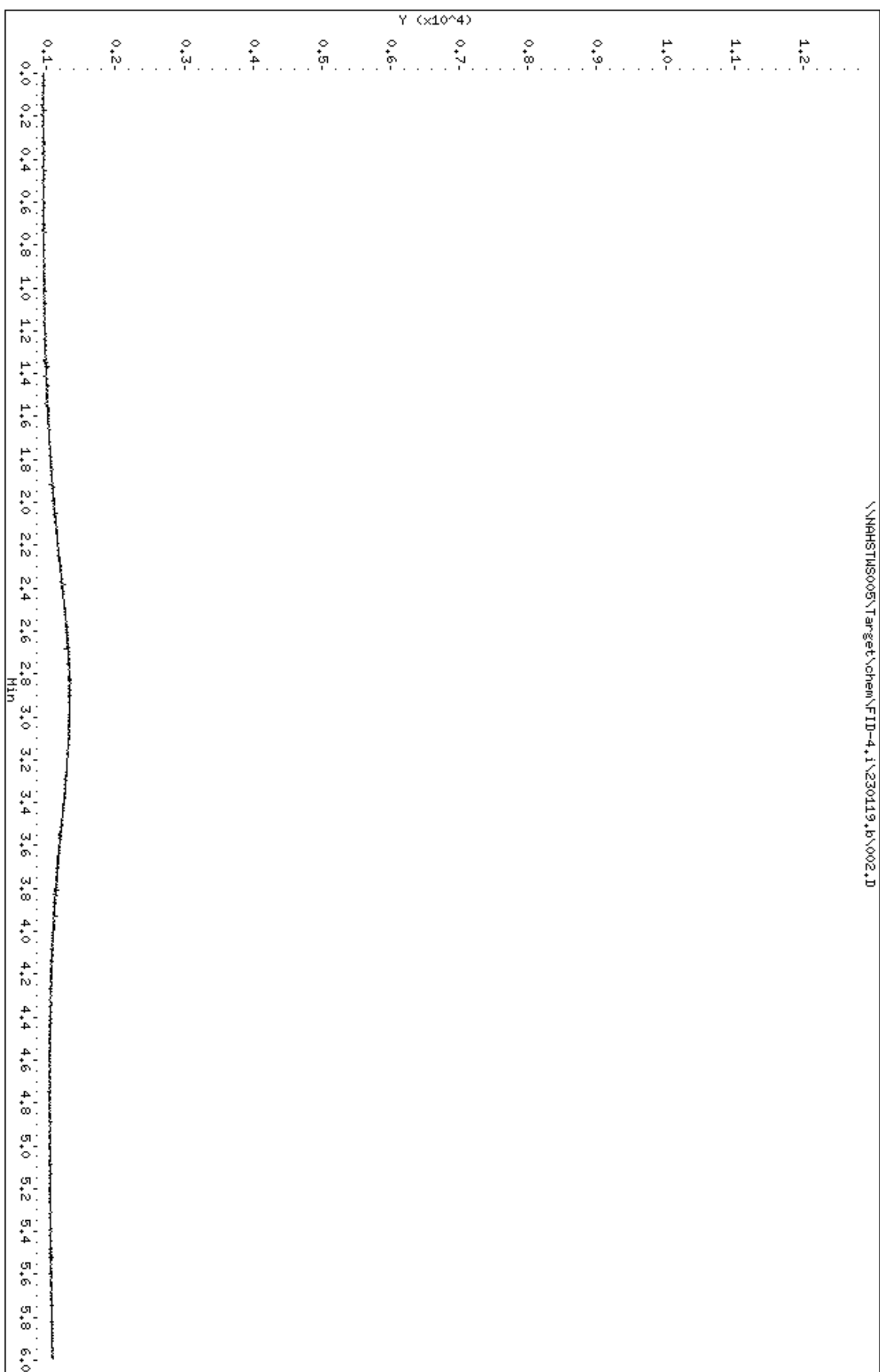
Date : 19-JAN-2023 08:57

Client ID: MBLK-230119

Instrument: FID-4.i

Sample Info: MBLK-230119;MBLK-230119;3;BLANK

Column phase: Rtx-PL0T

Operator: PL
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\002.D
Inj Date : 19-JAN-2023 08:57
InstruID : FID-4.i
LabSampID : MBLK-230119

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\003.D
 Report Date: 19-Jan-2023 09:55

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\003.D
 Lab Smp Id: LCS-230119 Client Smp ID: LCS-230119
 Inj Date : 19-JAN-2023 09:07
 Operator : PL Inst ID: FID-4.i
 Smp Info : LCS-230119;LCS-230119;3;;LCS
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 19-Jan-2023 08:56 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 3 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.433	0.420	0.013	9486	9.72931	9.729
2 Ethene	0.653	0.643	0.010	9400	16.0475	16.047(M)
3 Ethane	0.726	0.713	0.013	14304	19.8808	19.880(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\003.D

Date : 19-JAN-2023 09:07

Client ID: LCS-230119

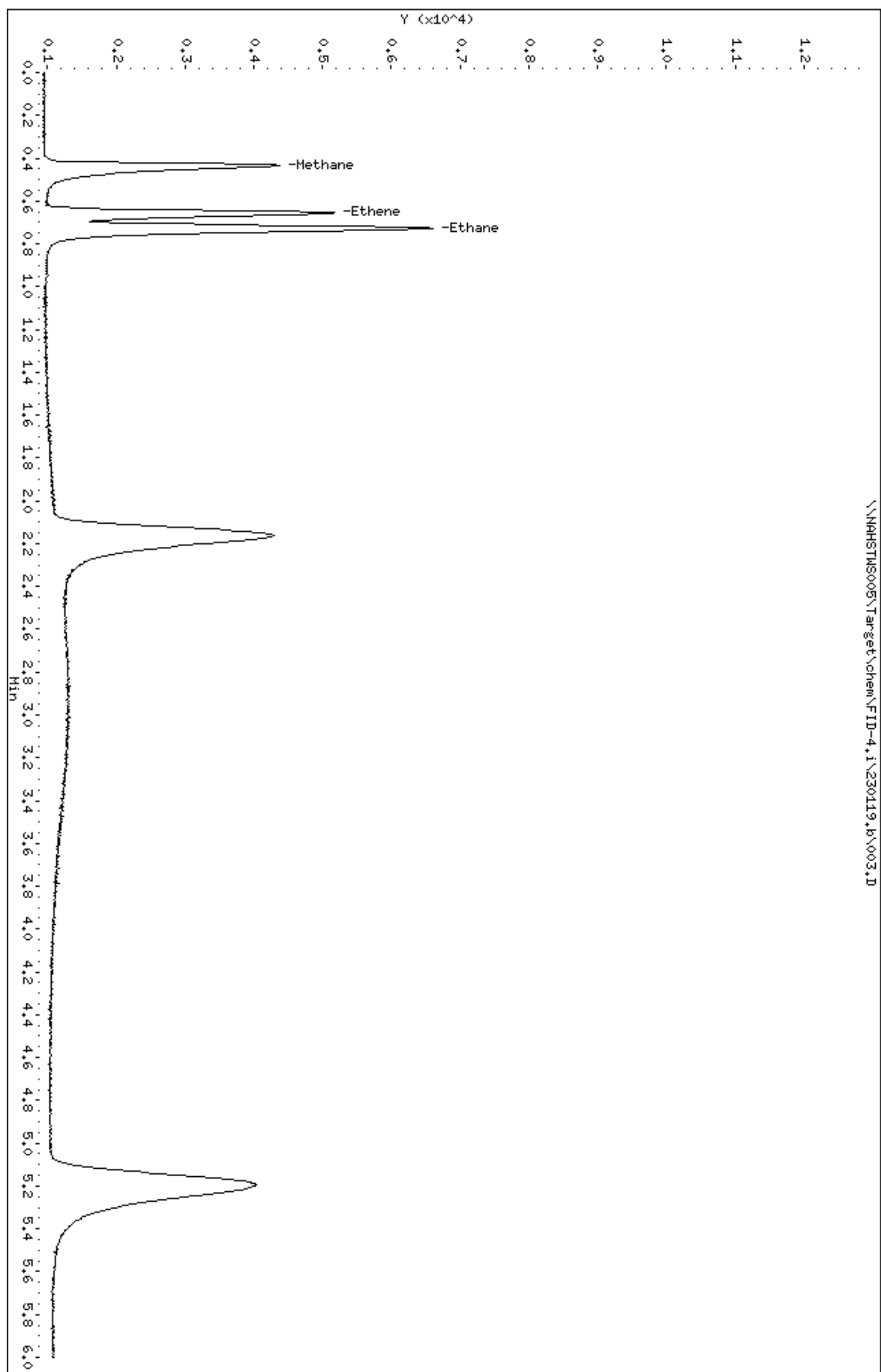
Sample Info: LCS-230119;LCS-230119;3;LCS

Column phase: Rtx-PL01

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

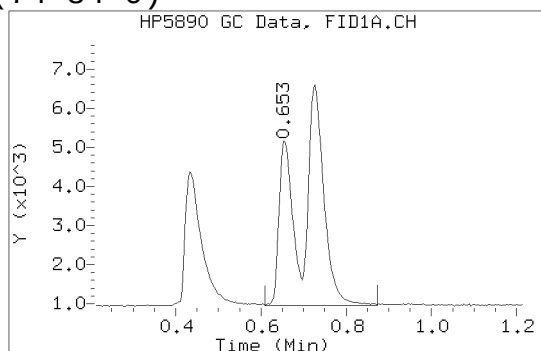


Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\003.D
 Inj Date : 19-JAN-2023 09:07
 InstruID : FID-4.i
 LabSampID : LCS-230119

Ethane (74-84-0)

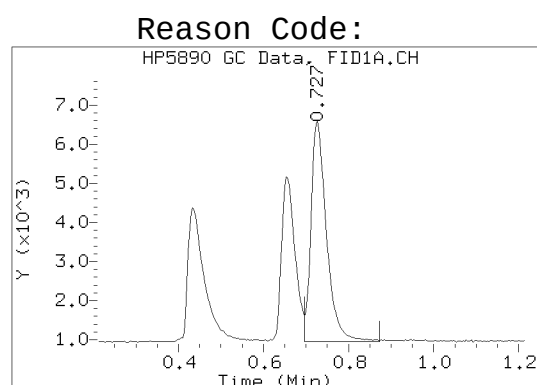
BEFORE

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HEIGHT
4214
19-Jan-2023
09:15
ALSHS
Server



AFTER

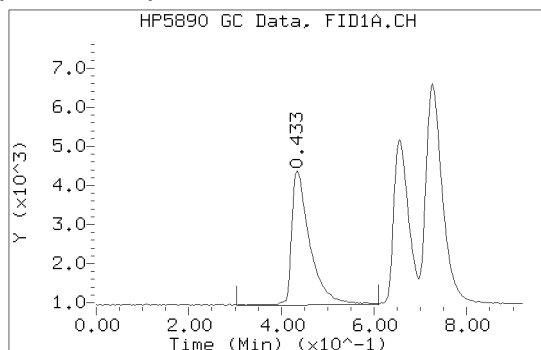
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44
AREA
14304
HEIGHT
5647
19-Jan-2023
09:55
ALSHS
Ser



Ethene (74-85-1)

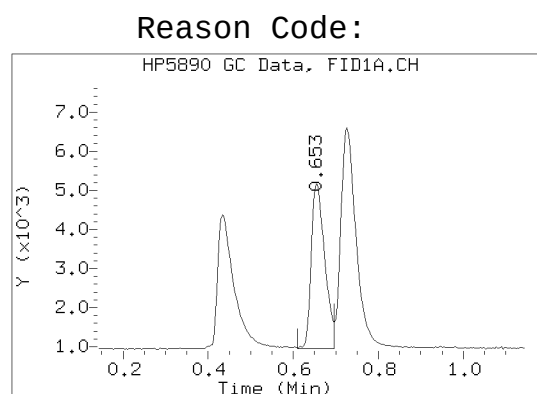
BEFORE

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AREA
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HEIGHT
0
19-Jan-2023
09:15
ALSHS
Server



AFTER

MASS
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AREA
9400
HEIGHT
4214
19-Jan-2023
09:55
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\011.D

Page 1

Report Date: 20-Jan-2023 14:28

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\011.D
 Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
 Inj Date : 19-JAN-2023 10:24
 Operator : PL Inst ID: FID-4.i
 Smp Info : RSK-CCV;RSK-CCV;2;4
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 11 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	0.426	0.426	0.000	9337		9.64700	9.576
2 Ethene	0.650	0.650	0.000	9669		16.8500	16.506
3 Ethane	0.723	0.723	0.000	14433		18.0430	20.060



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\011.D

Date : 19-JAN-2023 10:24

Client ID: RSK-CCV

Sample Info: RSK-CCV;RSK-CCV/2/4

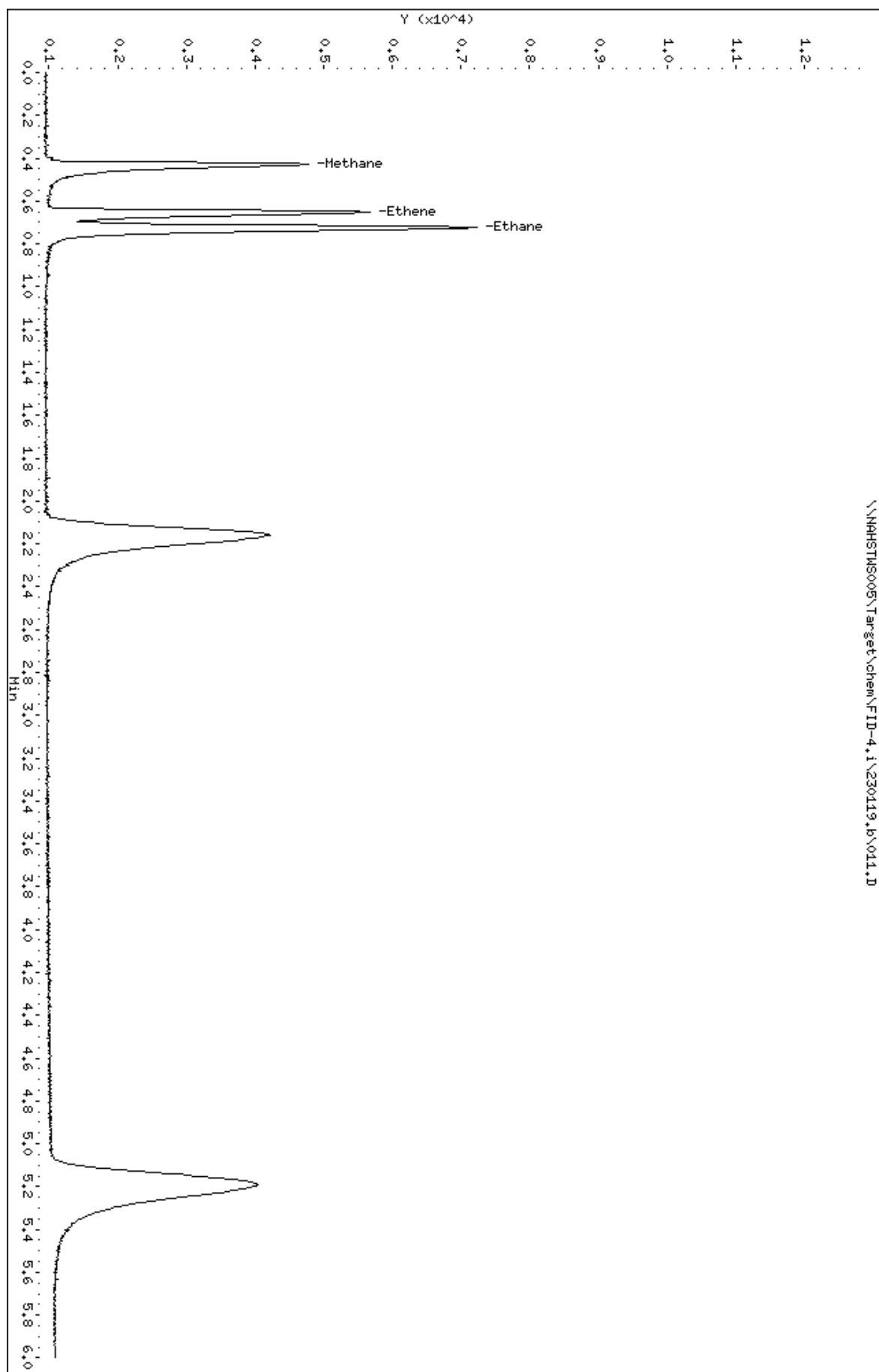
Column phase: Rtx-PL01

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Page 1



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\011.D
Inj Date : 19-JAN-2023 10:24
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\013.D
 Report Date: 20-Jan-2023 14:32

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\013.D
 Lab Smp Id: HS23010718-37MS Client Smp ID: HS23010718-37MS
 Inj Date : 19-JAN-2023 10:49
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010718-37MS;HS23010718-37MS
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 13 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN	FINAL
					(ug/L)	(ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	0.426	0.426	0.000	7818277	8018.81	8018.808(AR)
2 Ethene	0.640	0.650	-0.010	39169	66.8686	66.868(RM)
3 Ethane	0.716	0.723	-0.007	37748	52.4650	52.464(RM)

QC Flag Legend

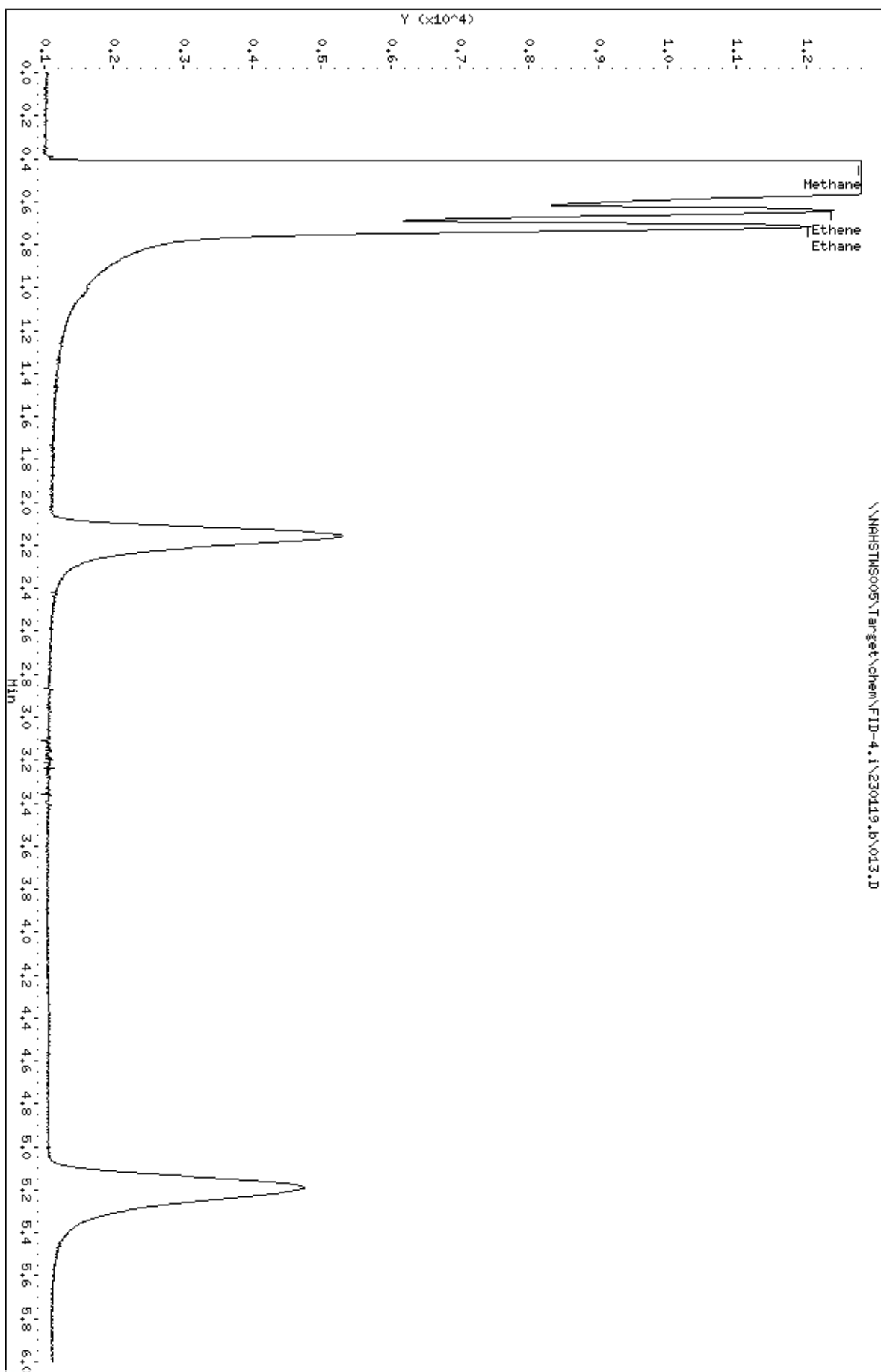
A - Target compound detected but, quantitated amount exceeded maximum amount.
 R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.1\230119.b\013.D
Date : 19-JAN-2023 10:49
Client ID: HS23010718-37MS
Sample Info: HS23010718-37MS;HS23010718-37MS

Column phase: Rtx-PL01

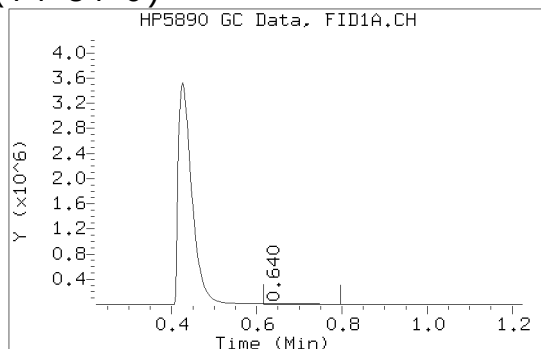
Instrument: FID-4.1
Operator: PL
Column diameter: 0.53



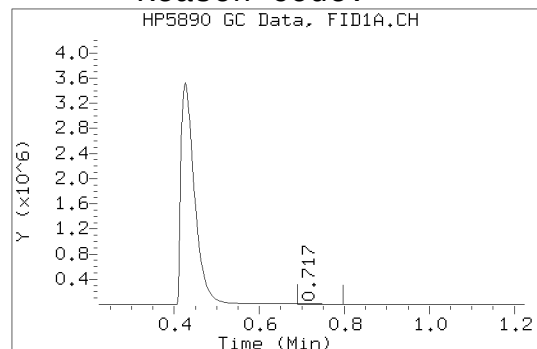
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\013.D
Inj Date : 19-JAN-2023 10:49
InstruID : FID-4.i
LabSampID : HS23010718-37MS

Ethane (74-84-0)**BEFORE**

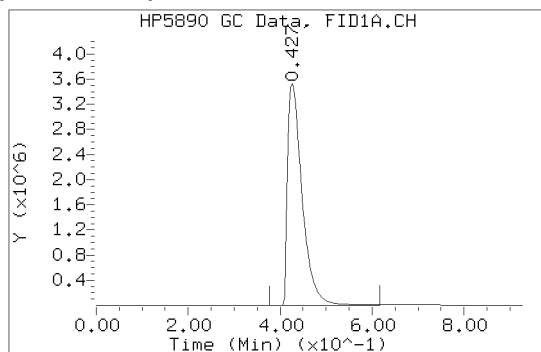
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AREA
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HEIGHT
10503
19-Jan-2023
10:56
ALSHS
Server

**AFTER**

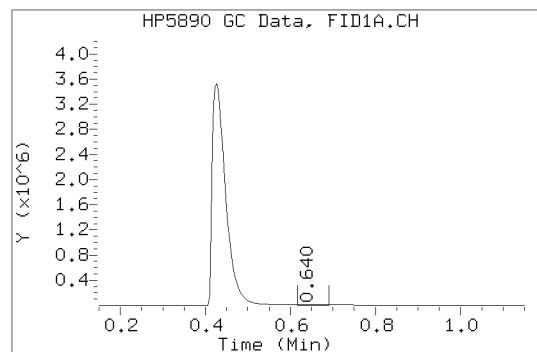
MASS
44
AREA
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20-Jan-2023
14:32
ALSHS
Ser

Reason Code:**Ethene (74-85-1)****BEFORE**

MASS
100
AREA
0
HEIGHT
0
19-Jan-2023
10:56
ALSHS
Server

**AFTER**

MASS
100
AREA
39169
HEIGHT
11325
20-Jan-2023
14:32
ALSHS
Ser

Reason Code:

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\014.D
 Report Date: 19-Jan-2023 11:34

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\014.D
 Lab Smp Id: HS23010718-37MSD Client Smp ID: HS23010718-37MSD
 Inj Date : 19-JAN-2023 10:57
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010718-37MSD;HS23010718-37MSD
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 19-Jan-2023 10:48 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 14 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.436	0.426	0.010	7835384	8036.35	8036.354(AR)
2 Ethene	0.653	0.650	0.003	33582	57.3306	57.330(R)
3 Ethane	0.723	0.723	0.000	54491	75.7356	75.735(AR)

QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.
 R - Spike/Surrogate failed recovery limits.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\014.D

Date : 19-JAN-2023 10:57

Client ID: HS23010718-37MSD

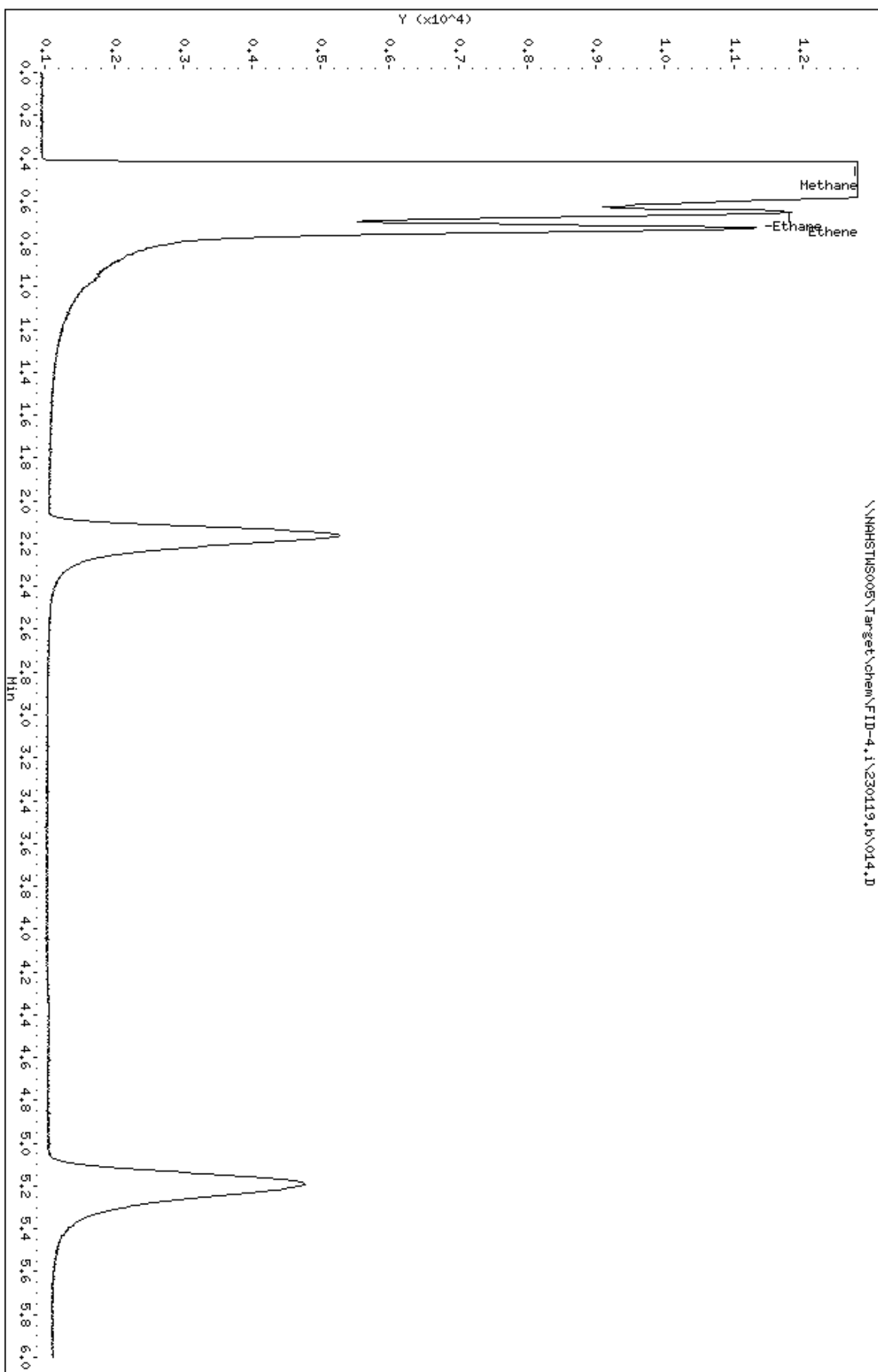
Sample Info: HS23010718-37MSD;HS23010718-37MSD

Column phase: RtX-PL01

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\014.D
Inj Date : 19-JAN-2023 10:57
InstruID : FID-4.i
LabSampID : HS23010718-37MSD

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\022.D

Page 1

Report Date: 19-Jan-2023 12:25

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\022.D
 Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
 Inj Date : 19-JAN-2023 12:16
 Operator : PL Inst ID: FID-4.i
 Smp Info : RSK-CCV;RSK-CCV;2;4
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 19-Jan-2023 12:25 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 22 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	0.430	0.430	0.000	10009		9.64700	10.265
2 Ethene	0.650	0.650	0.000	10383		16.8500	17.725
3 Ethane	0.720	0.720	0.000	14811		18.0430	20.585



Data File: \\NAHSTMS005\Target\chem\FID-4.1\230119.b\022.D

Date : 19-JAN-2023 12:16

Client ID: RSK-CCV

Sample Info: RSK-CCV\RSK-CCV214

Page 1

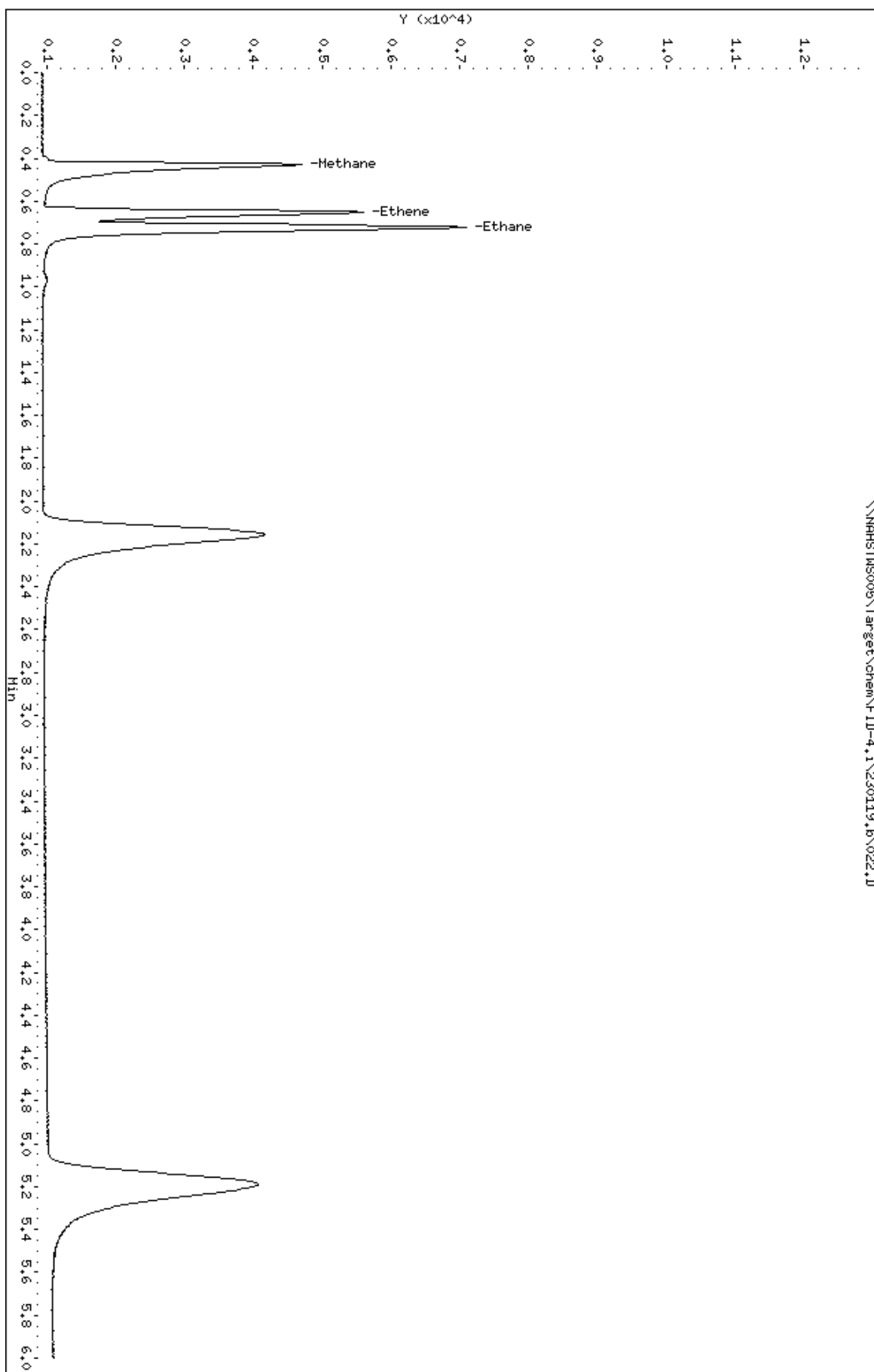
Column phase: Rtx-PL01

Instrument: FID-4.1

Operator: PL

Column diameter: 0.53

\\NAHSTMS005\Target\chem\FID-4.1\230119.b\022.D



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\022.D
Inj Date : 19-JAN-2023 12:16
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\024.D

Page 1

Report Date: 19-Jan-2023 13:18

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\024.D
 Lab Smp Id: HS23010587-01 Client Smp ID: HS23010587-01
 Inj Date : 19-JAN-2023 12:37
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-01;HS23010587-01
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 19-Jan-2023 12:25 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.433	0.430	0.003	4042745		4146.44	4146.437(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTMS005\Target\chem\FID-4,1\230119,b\024.D

Date : 19-JAN-2023 12:37

Client ID: HS23010587-01

Sample Info: HS23010587-01\HS23010587-01

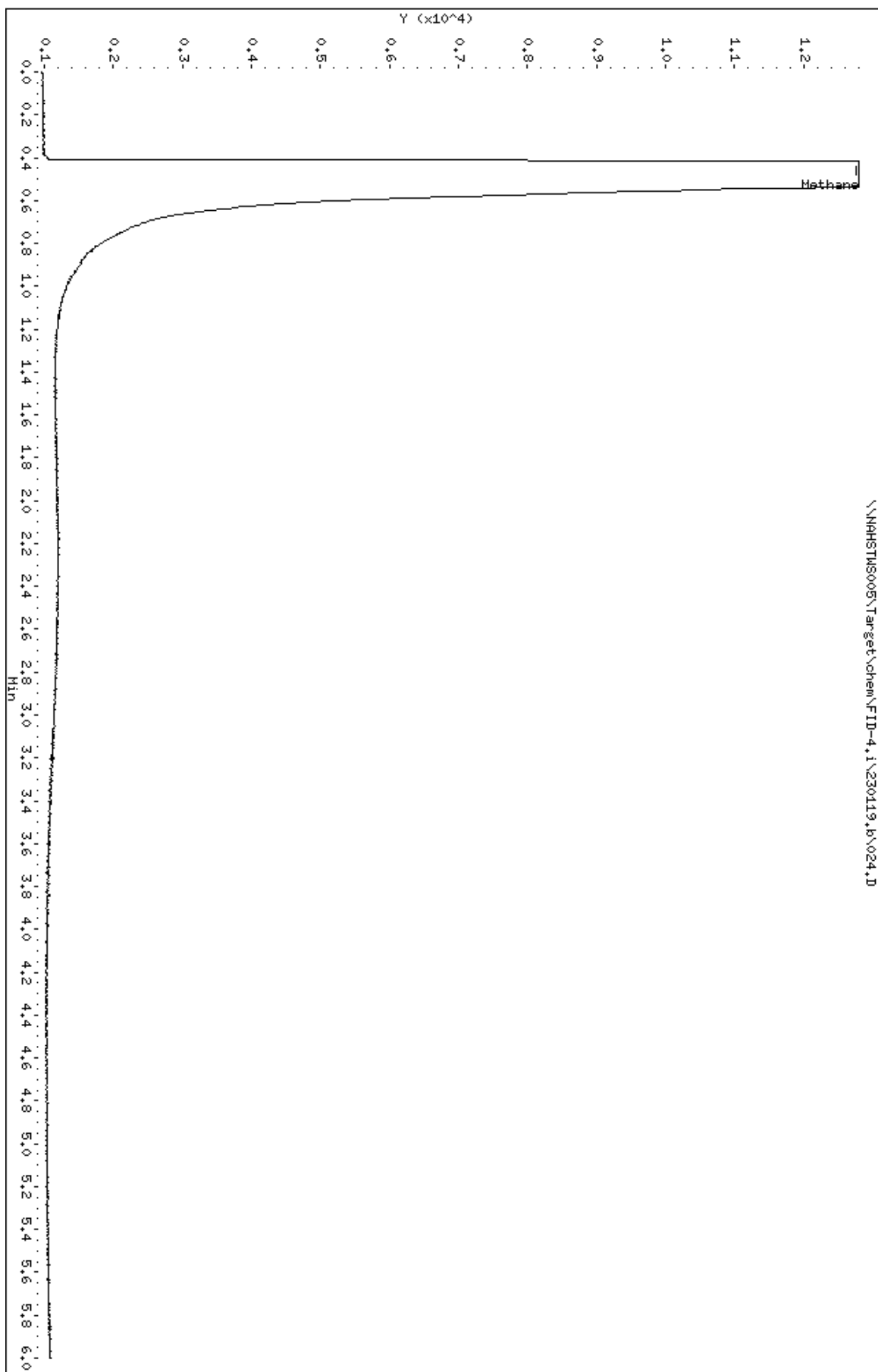
Column phase: Rtx-PL01

Instrument: FID-4,1

Operator: PL

Column diameter: 0.53

Page 1



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\024.D
Inj Date : 19-JAN-2023 12:37
InstruID : FID-4.i
LabSampID : HS23010587-01

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\025.D
 Report Date: 20-Jan-2023 14:36

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\025.D
 Lab Smp Id: HS23010587-02 Client Smp ID: HS23010587-02
 Inj Date : 19-JAN-2023 12:50
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-02;HS23010587-02
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.436	0.426	0.010	2544895	2610.17	2610.169(AM)
2 Ethene	0.646	0.650	-0.004	20992	35.8372	35.837(M)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\025.D

Date: 19-JAN-2023 12:50

Client ID: HS23010587-02

Sample Info: HS23010587-02;HS23010587-02

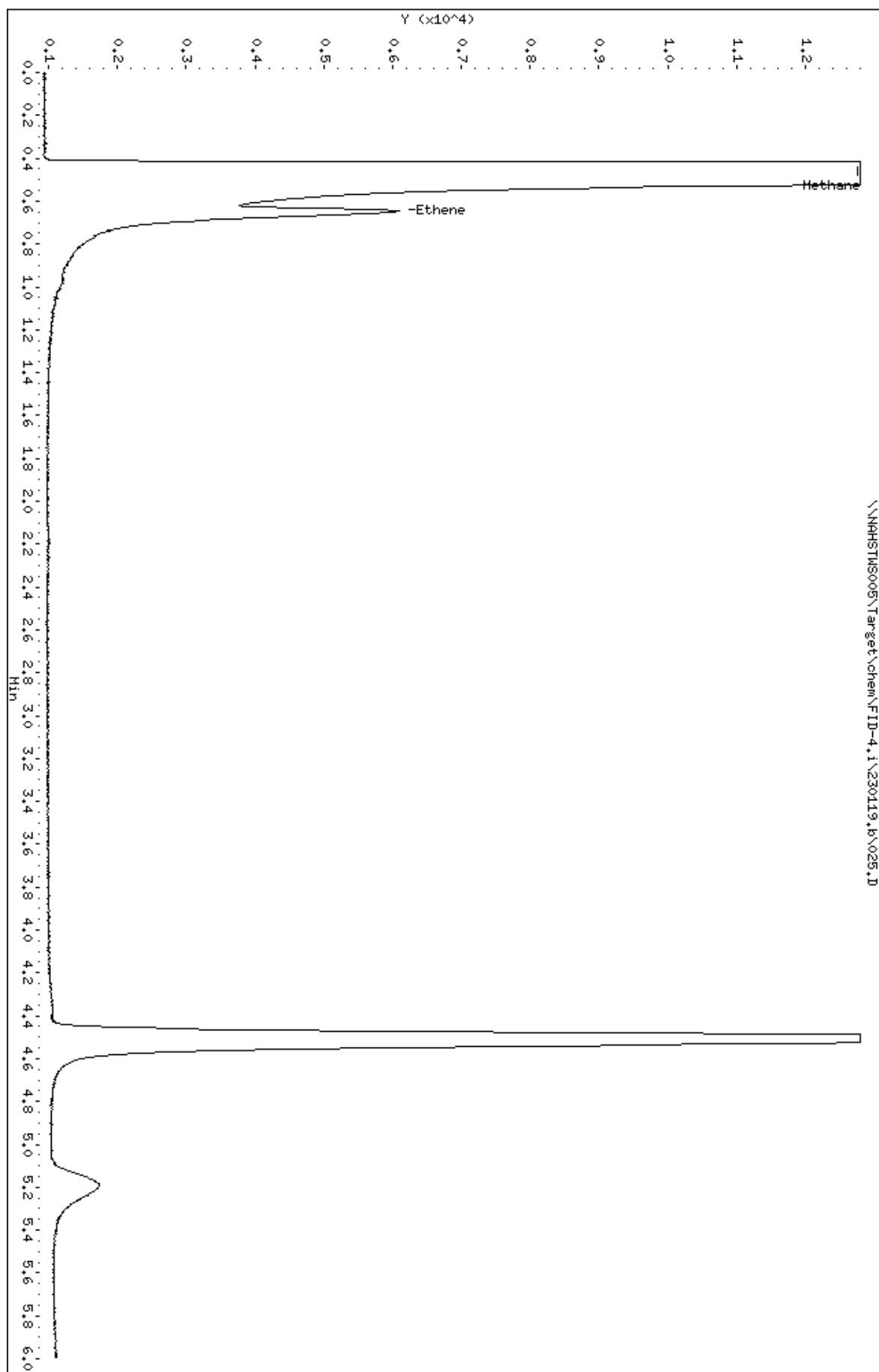
Column phase: Rtx-FL0T

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Page 1

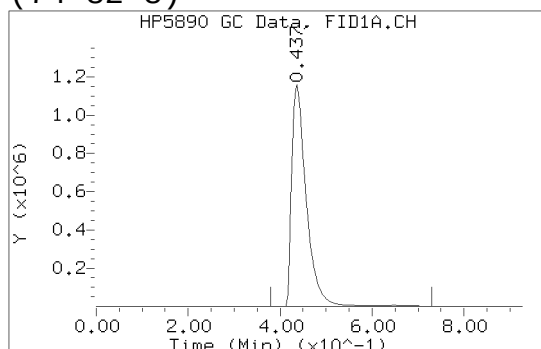


Data File : \\NAHSTWS005\\Target\\chem\\FID-4.i\\230119.b\\025.D
 Inj Date : 19-JAN-2023 12:50
 InstruID : FID-4.i
 LabSampID : HS23010587-02

Methane (74-82-8)

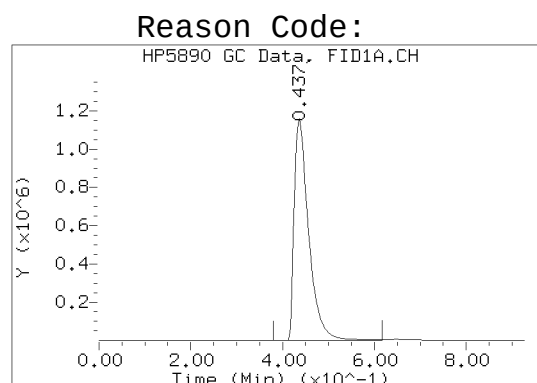
BEFORE

MASS
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AREA
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HEIGHT
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19-Jan-2023
12:57
ALSHS
Server



AFTER

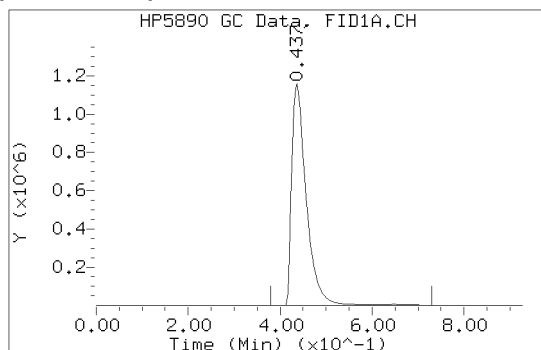
MASS
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AREA
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HEIGHT
1158124
20-Jan-2023
14:36
ALSHS
Ser



Ethene (74-85-1)

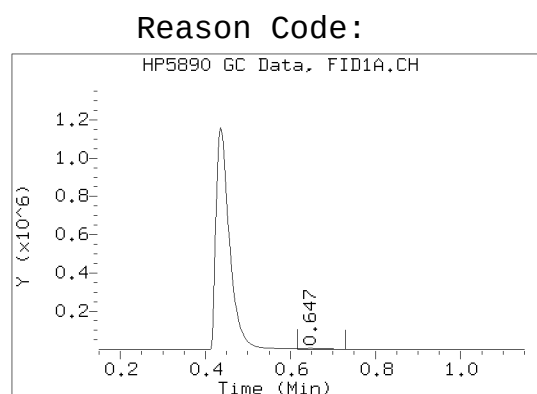
BEFORE

MASS
100
AREA
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HEIGHT
0
19-Jan-2023
12:57
ALSHS
Server



AFTER

MASS
100
AREA
20992
HEIGHT
5141
20-Jan-2023
14:36
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\026.D
 Report Date: 20-Jan-2023 14:18

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\026.D
 Lab Smp Id: HS23010587-03 Client Smp ID: HS23010587-03
 Inj Date : 19-JAN-2023 12:58
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-03;HS23010587-03
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 26
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
					ON-COLUMN	FINAL	
	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	
=====	====	=====	=====	=====	=====	=====	
1 Methane	0.426	0.433	-0.007	4121061	4226.76	4226.762(AM)	
2 Ethene	0.643	0.653	-0.010	28923	49.3768	49.376(M)	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\026.D

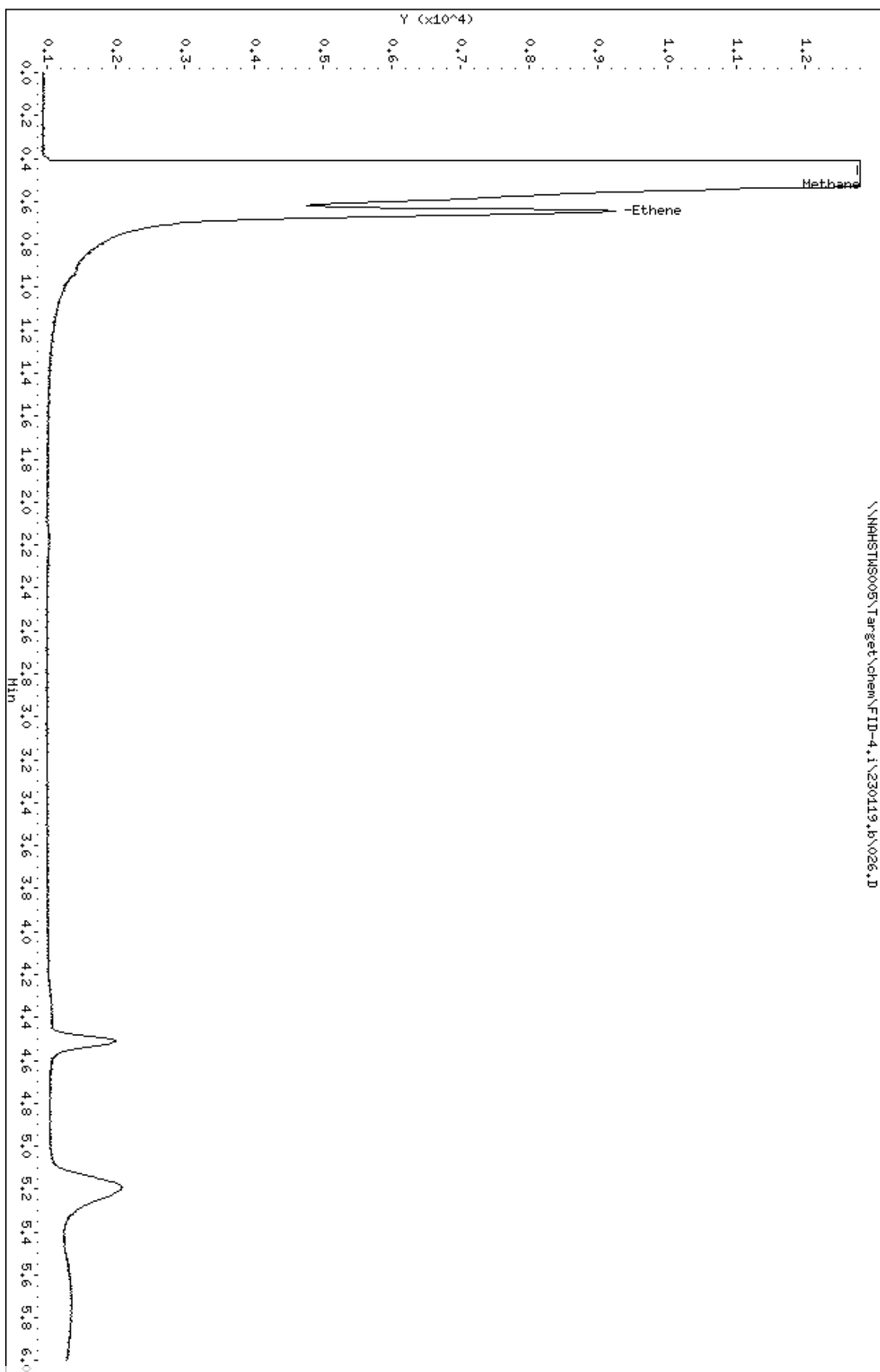
Date : 19-JAN-2023 12:58

Client ID: HS23010587-03

Sample Info: HS23010587-03;HS23010587-03

Page 1

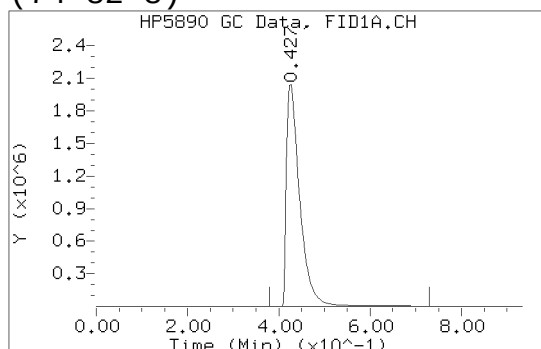
Column phase: Rtx-PL01

Instrument: FID-4.i
Operator: PL
Column diameter: 0.53

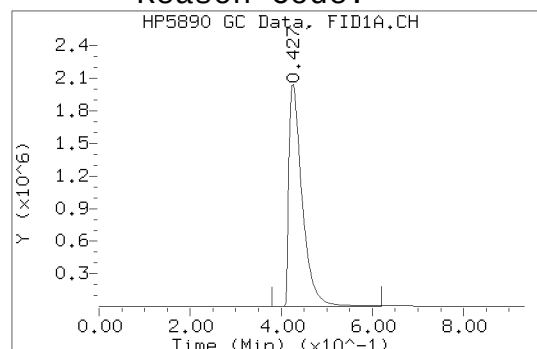
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\026.D
Inj Date : 19-JAN-2023 12:58
InstruID : FID-4.i
LabSampID : HS23010587-03

Methane (74-82-8)**BEFORE**

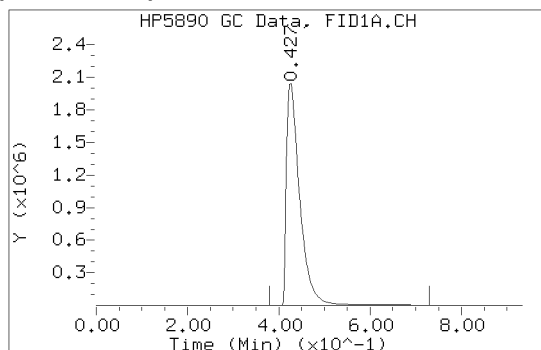
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AREA
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HEIGHT
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19-Jan-2023
13:05
ALSHS
Server

**AFTER**

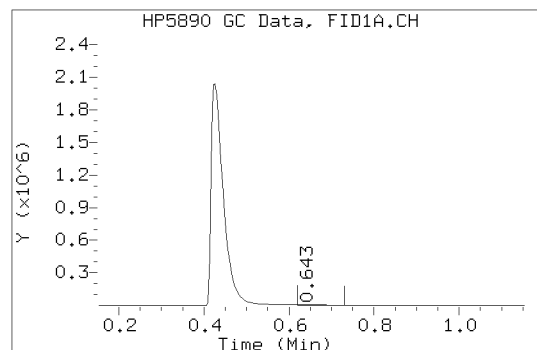
MASS
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AREA
4121061
HEIGHT
2040856
20-Jan-2023
14:18
ALSHS
Ser

**Ethene (74-85-1)****BEFORE**

MASS
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AREA
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HEIGHT
0
19-Jan-2023
13:05
ALSHS
Server

**AFTER**

MASS
100
AREA
28923
HEIGHT
8280
20-Jan-2023
14:18
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\027.D

Page 1

Report Date: 27-Jan-2023 20:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\027.D
 Lab Smp Id: HS23010587-04 Client Smp ID: HS23010587-04
 Inj Date : 19-JAN-2023 13:06
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-04;HS23010587-04
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 27
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN	FINAL
						(ug/L)	(ug/L)
	=====	=====	=====	=====		=====	=====
1 Methane	0.420	0.426	-0.006	3293947		3378.43	3378.433(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\027.D

Date : 19-JAN-2023 13:06

Client ID: HS23010587-04

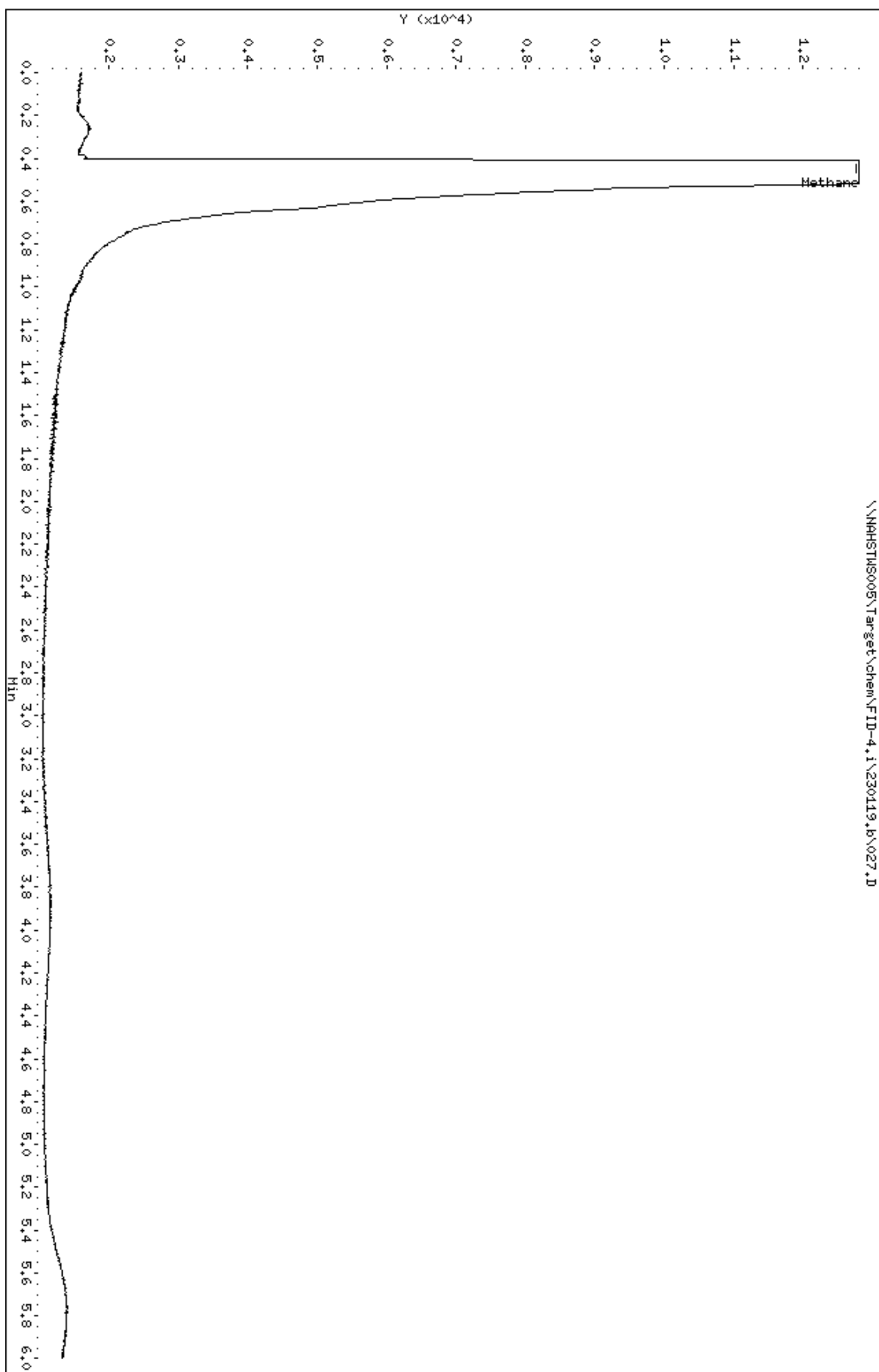
Sample Info: HS23010587-04\HS23010587-04

Column phase: Rtx-PL01

Instrument: FID-4.1

Operator: PL

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\027.D
Inj Date : 19-JAN-2023 13:06
InstruID : FID-4.i
LabSampID : HS23010587-04

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\028.D

Page 1

Report Date: 19-Jan-2023 13:31

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\028.D
 Lab Smp Id: HS23010587-05 Client Smp ID: HS23010587-05
 Inj Date : 19-JAN-2023 13:15
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-05;HS23010587-05
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 19-Jan-2023 12:25 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 28
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN	FINAL
						(ug/L)	(ug/L)
	=====	=====	=====	=====		=====	=====
1 Methane	0.426	0.430	-0.004	6110328		6267.05	6267.052(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\028.D

Date : 19-JAN-2023 13:15

Client ID: HS23010587-05

Sample Info: HS23010587-05\HS23010587-05

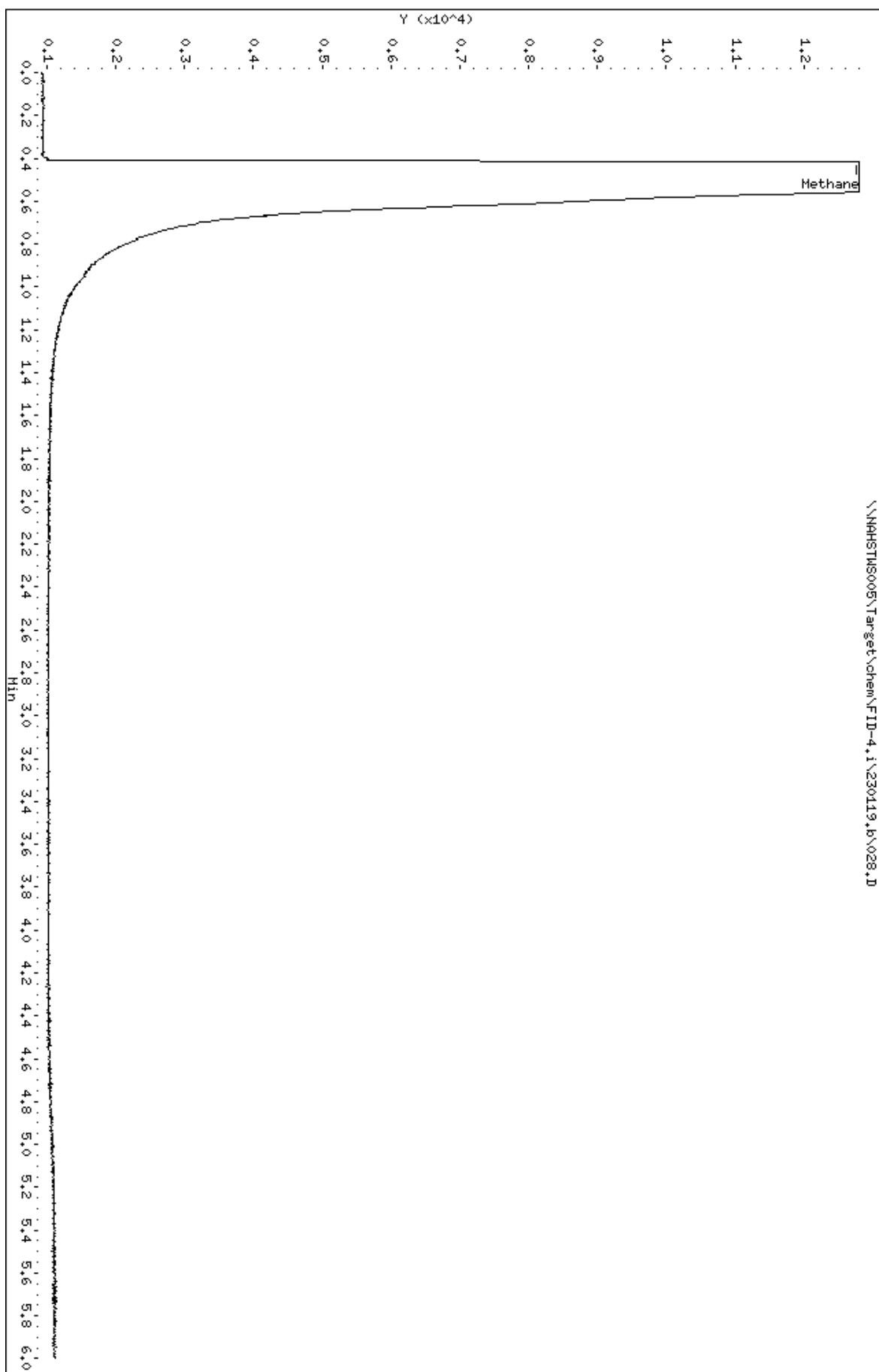
Page 1

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Column phase: Rtx-PL0T



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\028.D
Inj Date : 19-JAN-2023 13:15
InstruID : FID-4.i
LabSampID : HS23010587-05

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\029.D
 Report Date: 20-Jan-2023 14:36

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\029.D
 Lab Smp Id: HS23010587-06 Client Smp ID: HS23010587-06
 Inj Date : 19-JAN-2023 13:23
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-06;HS23010587-06
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 29
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.426	0.426	0.000	3281		3.36515	3.365
2 Ethene	0.636	0.650	-0.014	2314		3.95042	3.950(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.1\230119.b\029.D

Date : 19-JAN-2023 13:23

Client ID: HS23010587-06

Sample Info: HS23010587-06;HS23010587-06

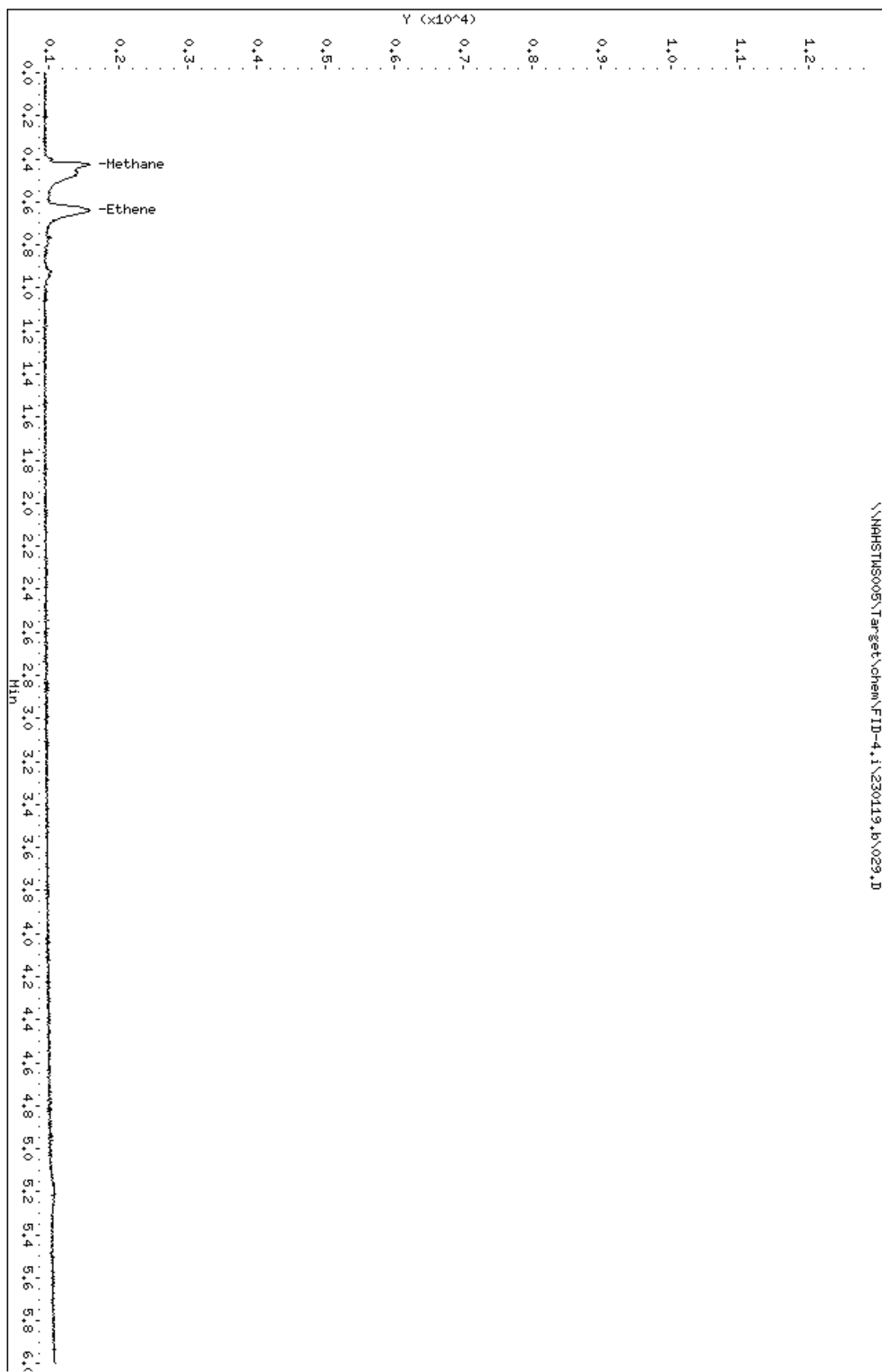
Instrument: FID-4.1

Column phase: Rtx-PL01

Operator: PL

Column diameter: 0.53

\\NAHSTMS005\Target\chem\FID-4.1\230119.b\029.D

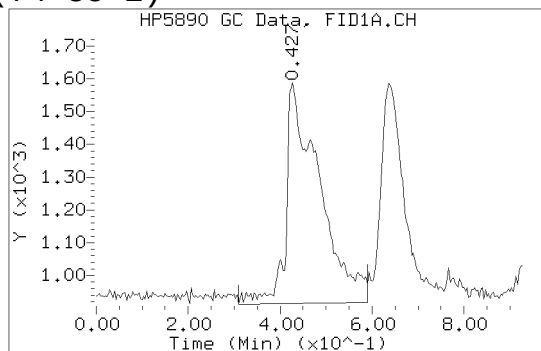


Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\029.D
Inj Date : 19-JAN-2023 13:23
InstruID : FID-4.i
LabSampID : HS23010587-06

Ethene (74-85-1)

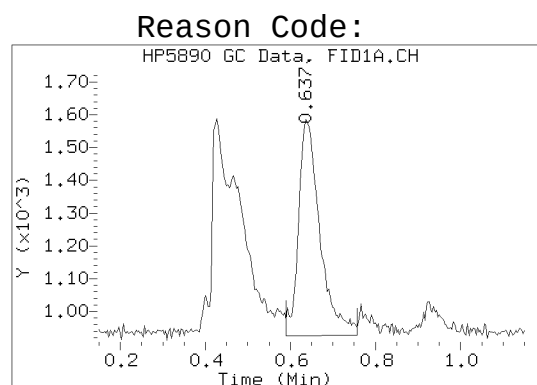
BEFORE

MASS
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HEIGHT
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19-Jan-2023
13:31
ALSHS
Server



AFTER

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AREA
2314
HEIGHT
661
20-Jan-2023
14:36
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\030.D

Page 1

Report Date: 19-Jan-2023 13:50

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\030.D
 Lab Smp Id: HS23010587-01 Client Smp ID: HS23010587-01
 Inj Date : 19-JAN-2023 13:33
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-01;HS23010587-01
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 19-Jan-2023 12:25 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 30
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
						ON-COLUMN	FINAL
		RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
1 Methane	0.453	0.430	0.023	32973	33.8187	33.818	



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\030.D

Date : 19-JAN-2023 13:33

Client ID: HS23010587-01

Sample Info: HS23010587-01;HS23010587-01

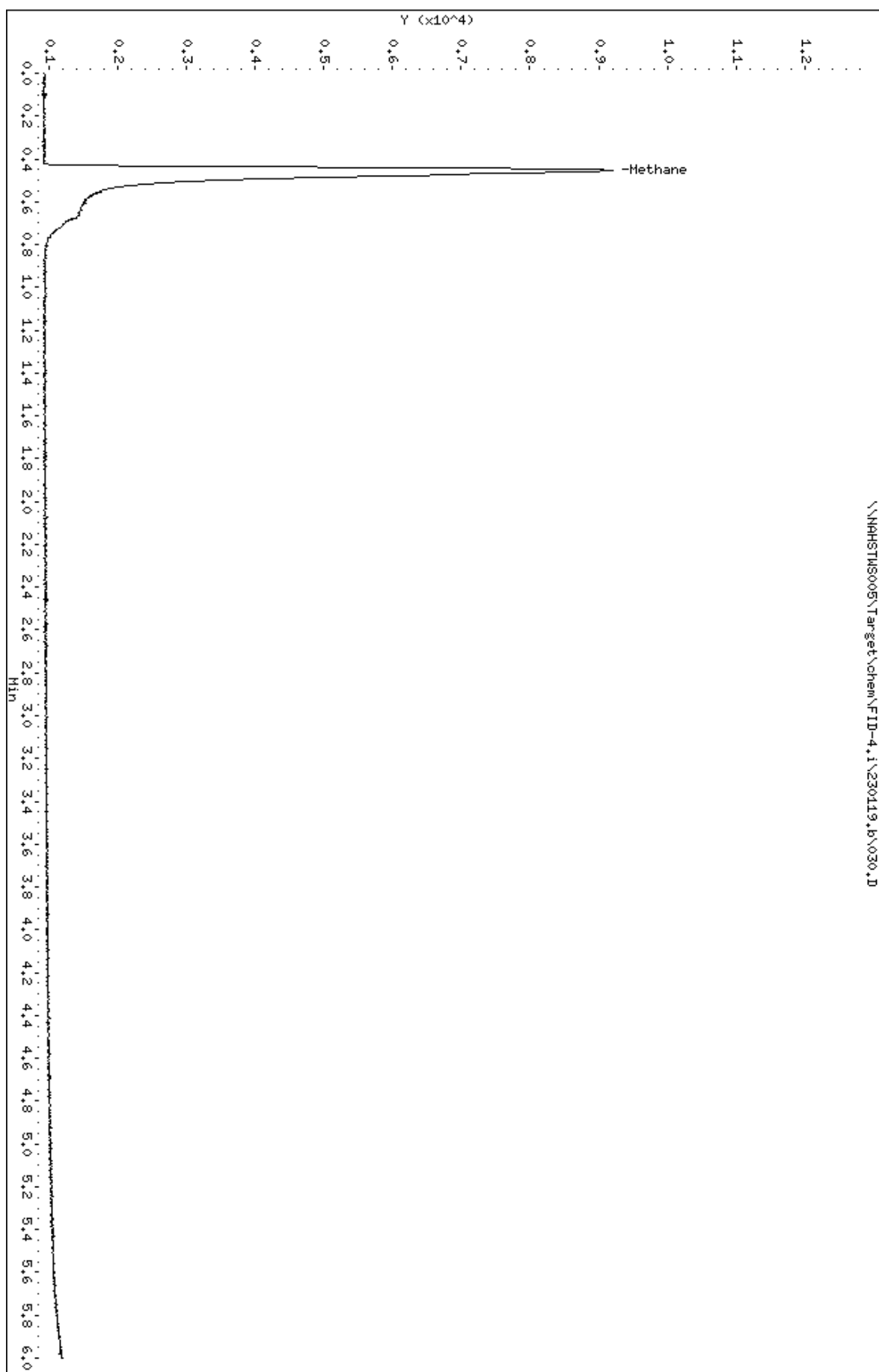
Page 1

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Column phase: Rtx-PL01



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\030.D
Inj Date : 19-JAN-2023 13:33
InstruID : FID-4.i
LabSampID : HS23010587-01

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\031.D
 Report Date: 27-Jan-2023 20:11

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\031.D
 Lab Smp Id: HS23010587-02 Client Smp ID: HS23010587-02
 Inj Date : 19-JAN-2023 13:43
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-02;HS23010587-02
 Misc Info : ;1;0;100
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 31
 Dil Factor: 100.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.450	0.426	0.024	25396		26.0474	2604.738(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\031.D

Date : 19-JAN-2023 13:43

Client ID: HS23010587-02

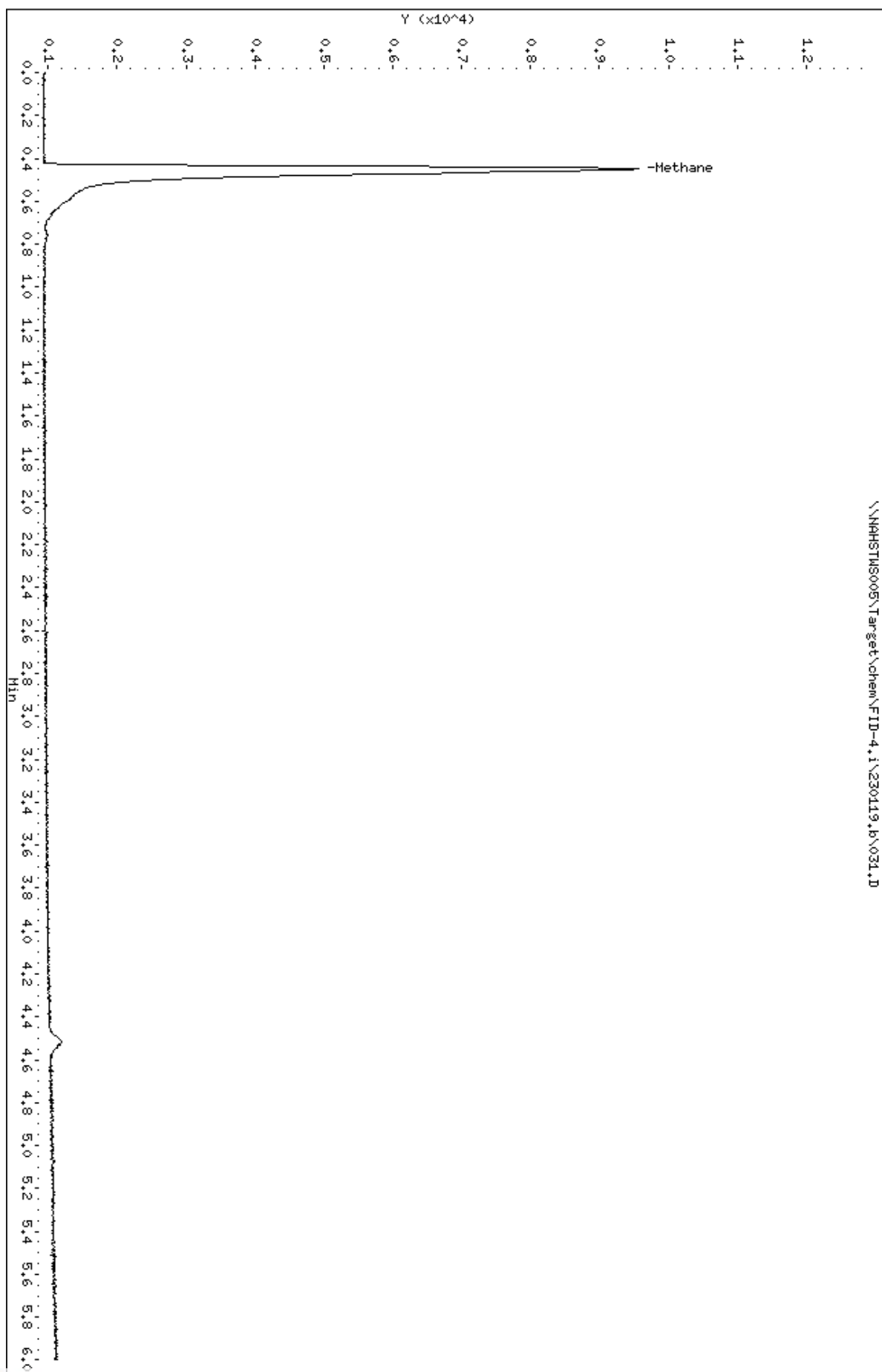
Sample Info: HS23010587-02;HS23010587-02

Column phase: Rtx-PL0T

Instrument: FID-4.i

Operator: PL

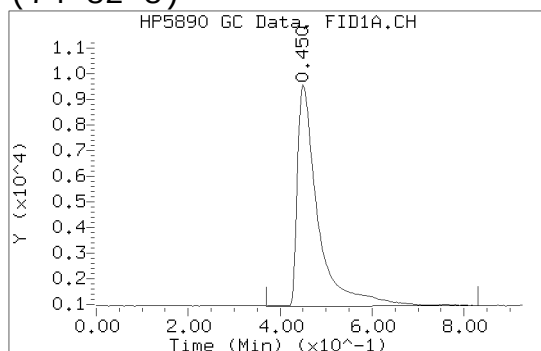
Column diameter: 0.53



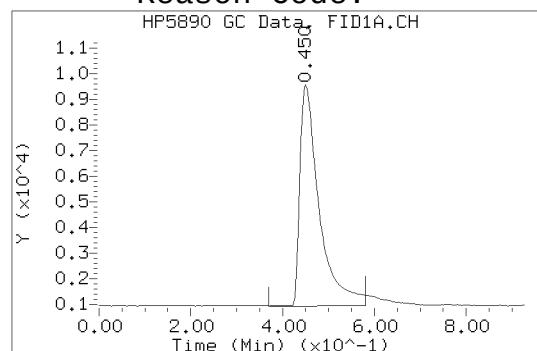
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\031.D
Inj Date : 19-JAN-2023 13:43
InstruID : FID-4.i
LabSampID : HS23010587-02

Methane (74-82-8)**BEFORE**

MASS
100
AREA
0
HEIGHT
0
19-Jan-2023
13:50
ALSHS
Server

**AFTER**

MASS
100
AREA
25396
HEIGHT
8640
27-Jan-2023
20:11
ALSHS
Ser

Reason Code:

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\032.D

Page 1

Report Date: 20-Jan-2023 14:18

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\032.D
 Lab Smp Id: HS23010587-03 Client Smp ID: HS23010587-03
 Inj Date : 19-JAN-2023 13:52
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-03;HS23010587-03
 Misc Info : ;1;0;400
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 32
 Dil Factor: 400.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN	FINAL
						(ug/L)	(ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.460	0.433	0.027	14500		14.8719	5948.764(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\032.D

Page 1

Date : 19-JAN-2023 13:52

Client ID: HS23010587-03

Instrument: FID-4.i

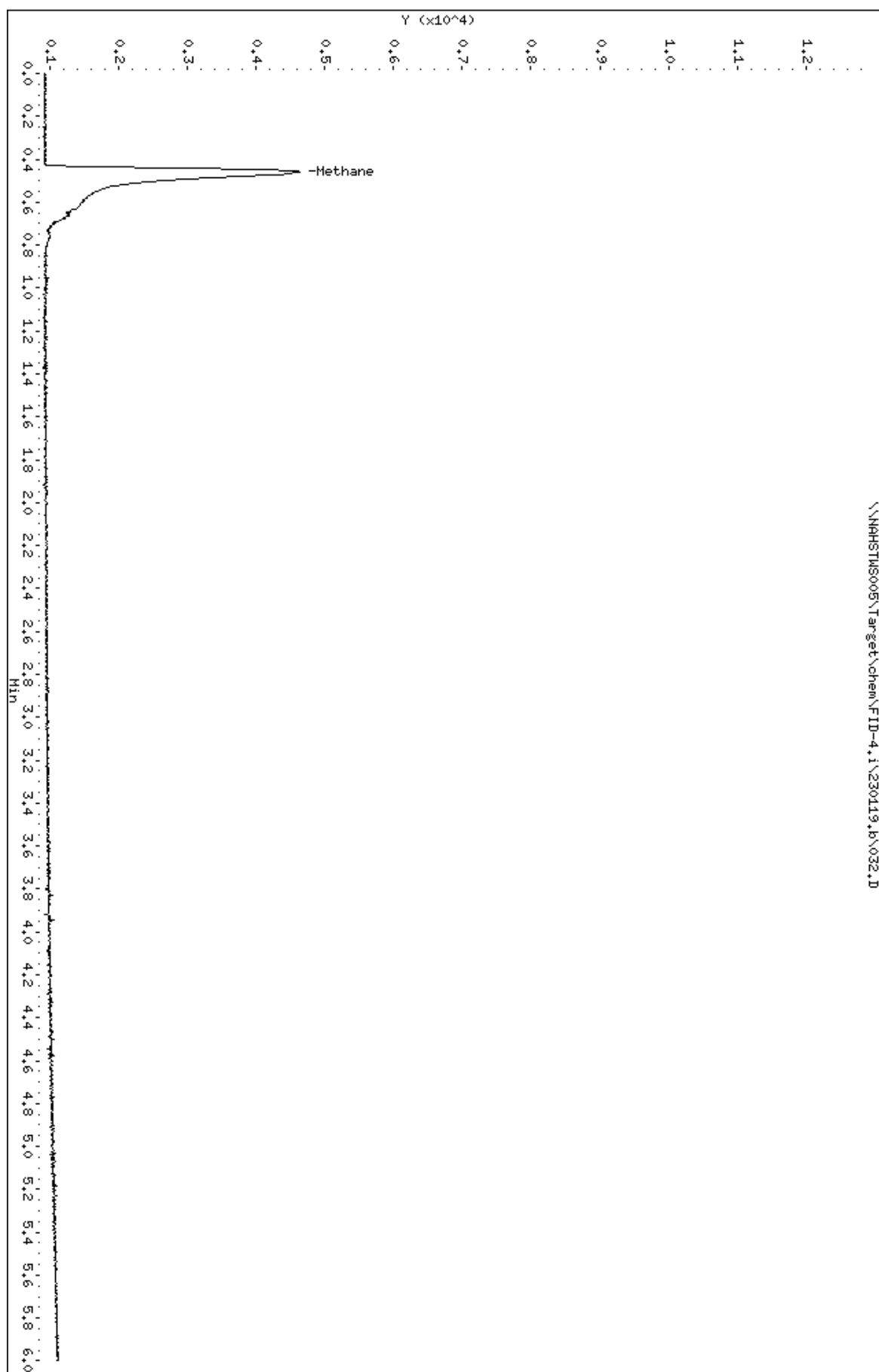
Sample Info: HS23010587-03;HS23010587-03

Column phase: RTX-PL0T

Operator: PL

Column diameter: 0.53

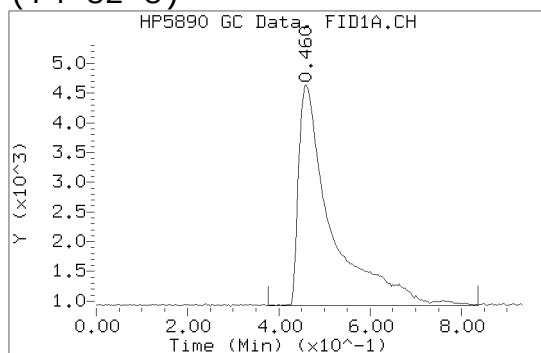
\\NAHSTMS005\Target\chem\FID-4.i\230119.b\032.D



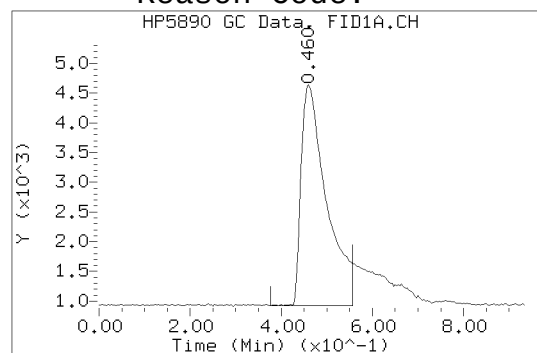
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\032.D
Inj Date : 19-JAN-2023 13:52
InstruID : FID-4.i
LabSampID : HS23010587-03

Methane (74-82-8)**BEFORE**

MASS
100
AREA
0
HEIGHT
0
19-Jan-2023
13:58
ALSHS
Server

**AFTER**

MASS
100
AREA
14500
HEIGHT
3723
20-Jan-2023
14:18
ALSHS
Ser

Reason Code:

Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\033.D

Page 1

Report Date: 20-Jan-2023 14:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\033.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 19-JAN-2023 14:03
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.433	0.433	0.000	9479		9.64700	9.722
2 Ethene	0.653	0.653	0.000	10184		16.8500	17.385
3 Ethane	0.726	0.726	0.000	14665		18.0430	20.382



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\033.D

Date : 19-JAN-2023 14:03

Client ID: RSK-CCV

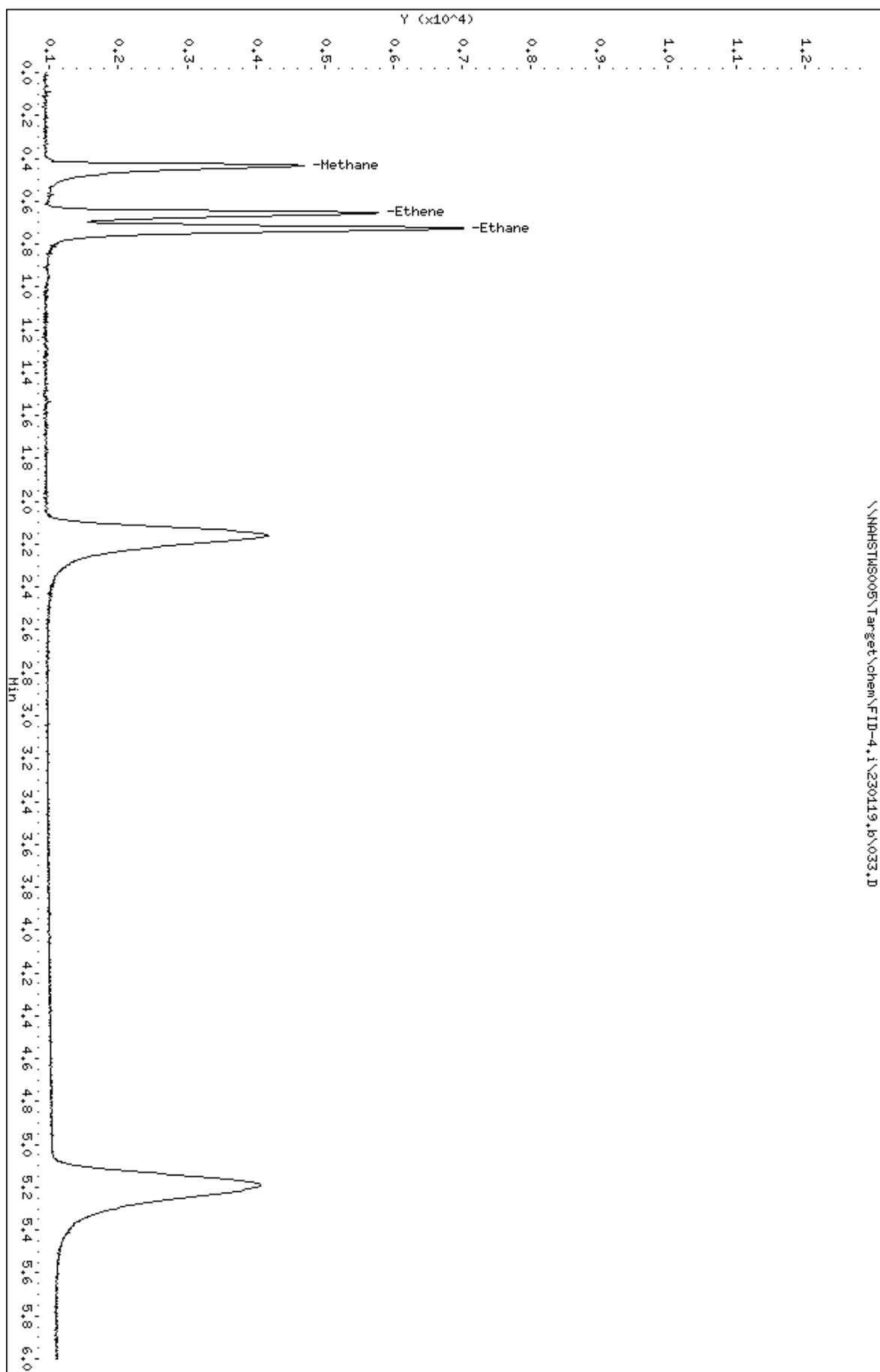
Sample Info: RSK-CCV\RSK-CCV1214

Column phase: Rtx-PL0T

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\033.D
Inj Date : 19-JAN-2023 14:03
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\034.D

Page 1

Report Date: 20-Jan-2023 14:19

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\034.D
 Lab Smp Id: HS23010587-04 Client Smp ID: HS23010587-04
 Inj Date : 19-JAN-2023 14:11
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-04;HS23010587-04
 Misc Info : ;1;0;200
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 34
 Dil Factor: 200.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN	FINAL
						(ug/L)	(ug/L)
	=====	=====	=====	=====		=====	=====
1 Methane	0.456	0.433	0.023	12531		12.8524	2570.481(M)

QC Flag Legend

M - Compound response manually integrated.

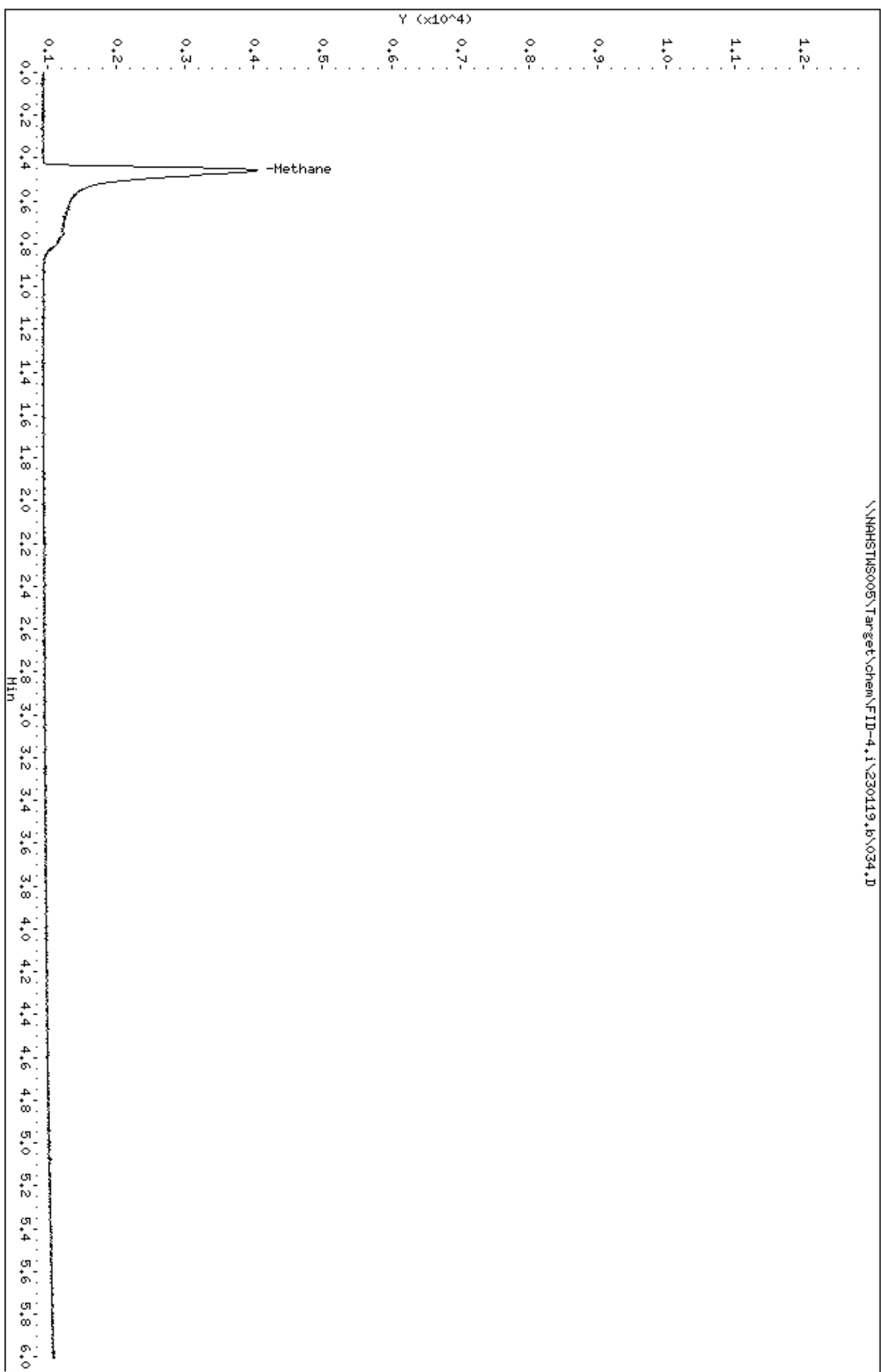


Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\034.D
Date : 19-JAN-2023 14:11
Client ID: HS23010587-04
Sample Info: HS23010587-04\HS23010587-04

Instrument: FID-4.i

Column phase: Rtx-PL01

Operator: PL
Column diameter: 0.53

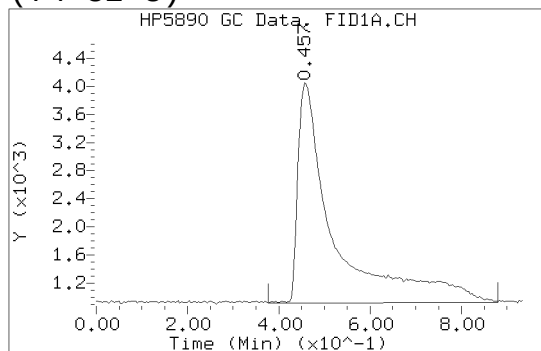


Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\034.D
Inj Date : 19-JAN-2023 14:11
InstruID : FID-4.i
LabSampID : HS23010587-04

Methane (74-82-8)

BEFORE

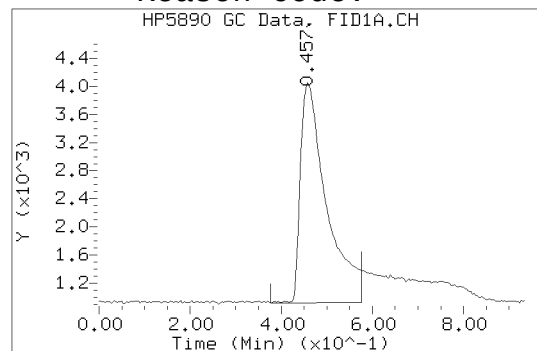
MASS
100
AREA
0
HEIGHT
0
19-Jan-2023
14:21
ALSHS
Server



AFTER

MASS
100
AREA
12531
HEIGHT
3133
20-Jan-2023
14:19
ALSHS
Ser

Reason Code:



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\035.D
 Report Date: 20-Jan-2023 14:37

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\035.D
 Lab Smp Id: HS23010587-05 Client Smp ID: HS23010587-05
 Inj Date : 19-JAN-2023 14:20
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-05;HS23010587-05
 Misc Info : ;1;0;200
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 35
 Dil Factor: 200.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.456	0.426	0.030	22361		22.9345	4586.907(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\035.D

Date : 19-JAN-2023 14:20

Client ID: HS23010587-05

Sample Info: HS23010587-05\HS23010587-05

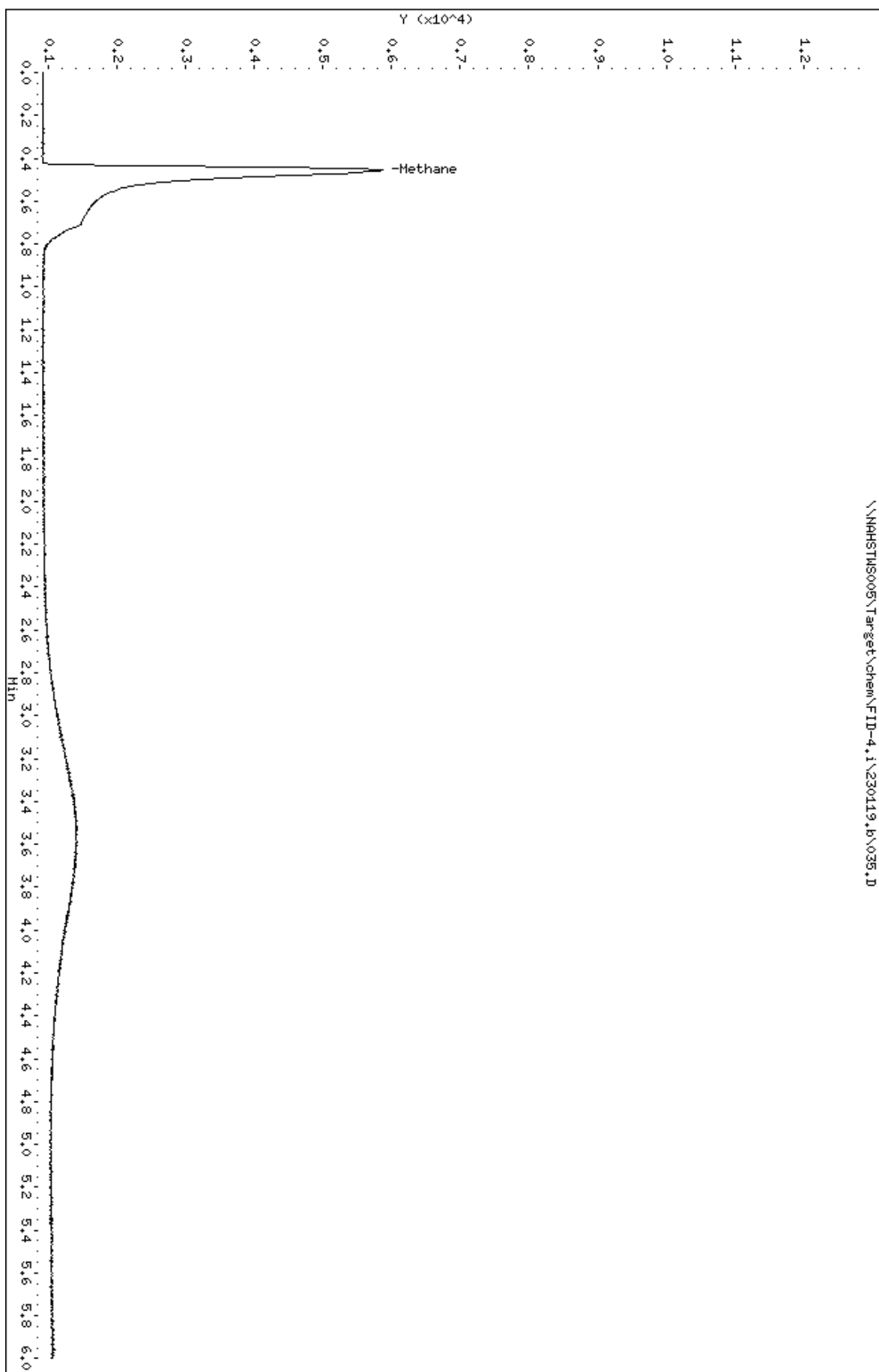
Column phase: Rtx-PL01

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Page 1

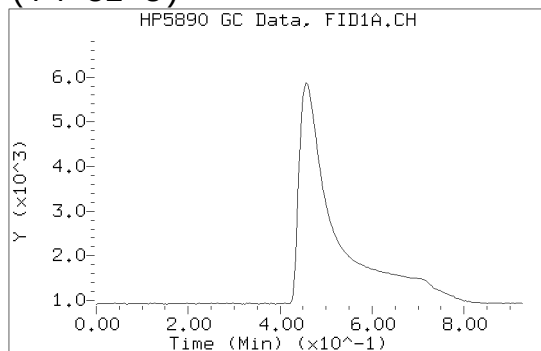


Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\035.D
Inj Date : 19-JAN-2023 14:20
InstruID : FID-4.i
LabSampID : HS23010587-05

Methane (74-82-8)

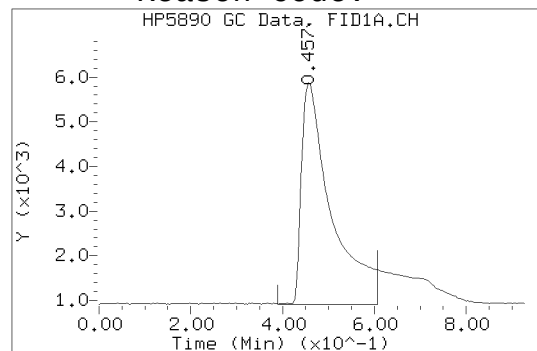
BEFORE

MASS
100
AREA
0
HEIGHT
0
19-Jan-2023
14:28
ALSHS
Server



AFTER

MASS
100
AREA
22361
HEIGHT
4959
20-Jan-2023
14:37
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\036.D

Page 1

Report Date: 19-Jan-2023 14:43

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\036.D
 Lab Smp Id: HS23010587-01 Client Smp ID: HS23010587-01
 Inj Date : 19-JAN-2023 14:28
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23010587-01;HS23010587-01
 Misc Info : ;1;0;200
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 19-Jan-2023 14:43 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 36
 Dil Factor: 200.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.453	0.430	0.023	15686		16.0883	3217.666(M)

QC Flag Legend

M - Compound response manually integrated.

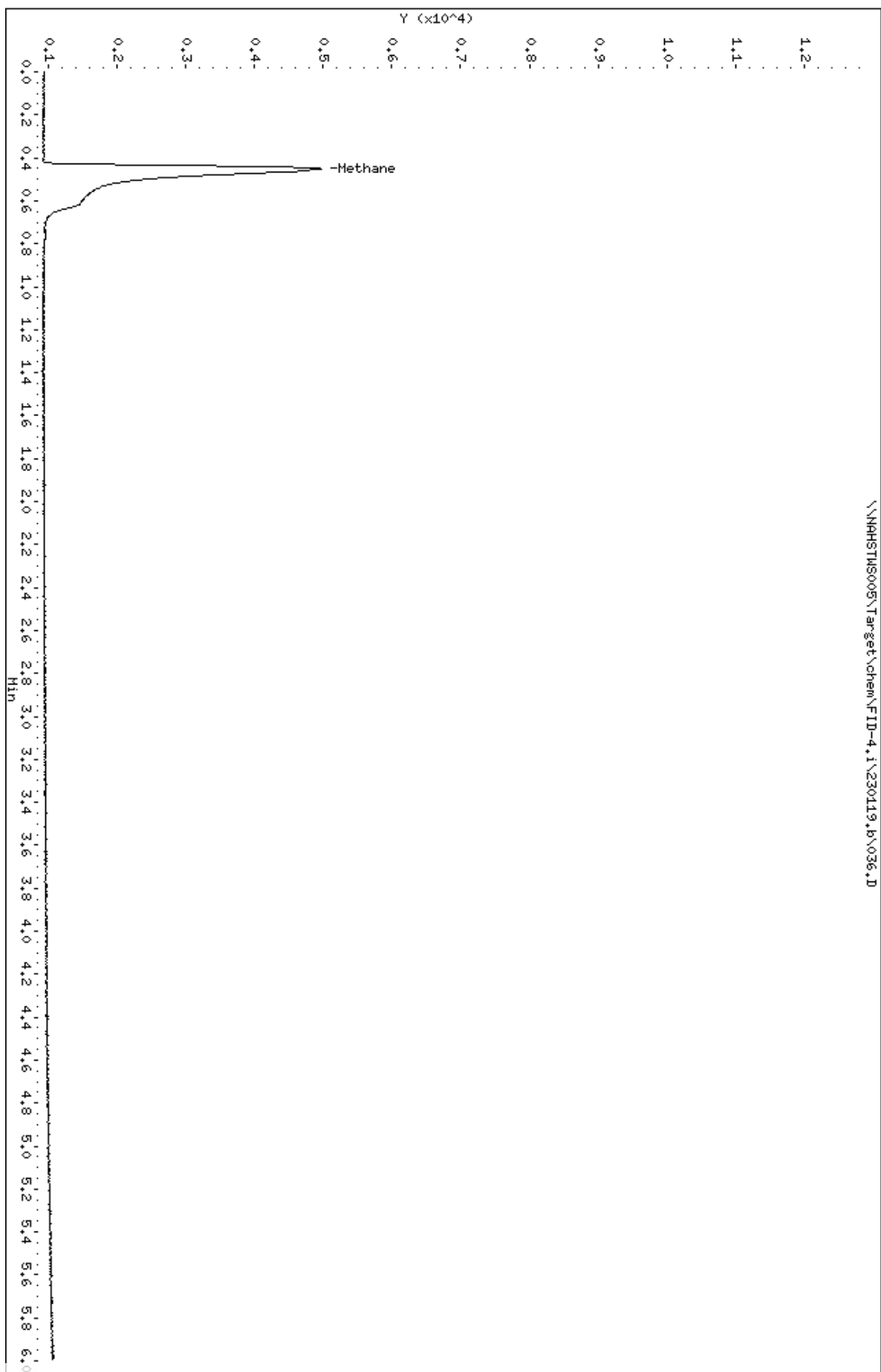


Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\036.D
Date : 19-JAN-2023 14:28
Client ID: HS23010587-01
Sample Info: HS23010587-01;HS23010587-01

Instrument: FID-4.i

Column phase: Rtx-PL01

Operator: PL
Column diameter: 0.53

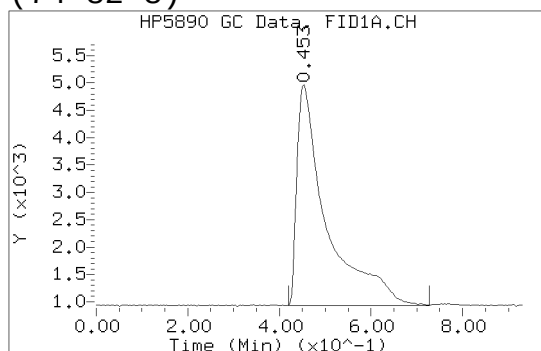


Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\036.D
Inj Date : 19-JAN-2023 14:28
InstruID : FID-4.i
LabSampID : HS23010587-01

Methane (74-82-8)

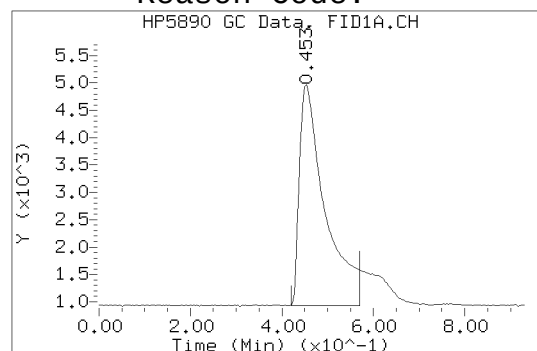
BEFORE

MASS
100
AREA
0
HEIGHT
0
19-Jan-2023
14:35
ALSHS
Server



AFTER

MASS
100
AREA
15686
HEIGHT
4038
19-Jan-2023
14:43
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230119.b\037.D
 Report Date: 20-Jan-2023 14:22

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\037.D
 Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
 Inj Date : 19-JAN-2023 14:35
 Operator : PL Inst ID: FID-4.i
 Smp Info : RSK-CCV;RSK-CCV;2;4
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\RSKNI3.m
 Meth Date : 20-Jan-2023 14:14 purvi.lad Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 37 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7007

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.430	0.430	0.000	8931		9.64700	9.160
2 Ethene	0.656	0.656	0.000	9368		16.8500	15.992
3 Ethane	0.726	0.726	0.000	14776		18.0430	20.536(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230119.b\037.D

Date : 19-JAN-2023 14:35

Client ID: RSK-CCV

Sample Info: RSK-CCV\RSK-CCV\214

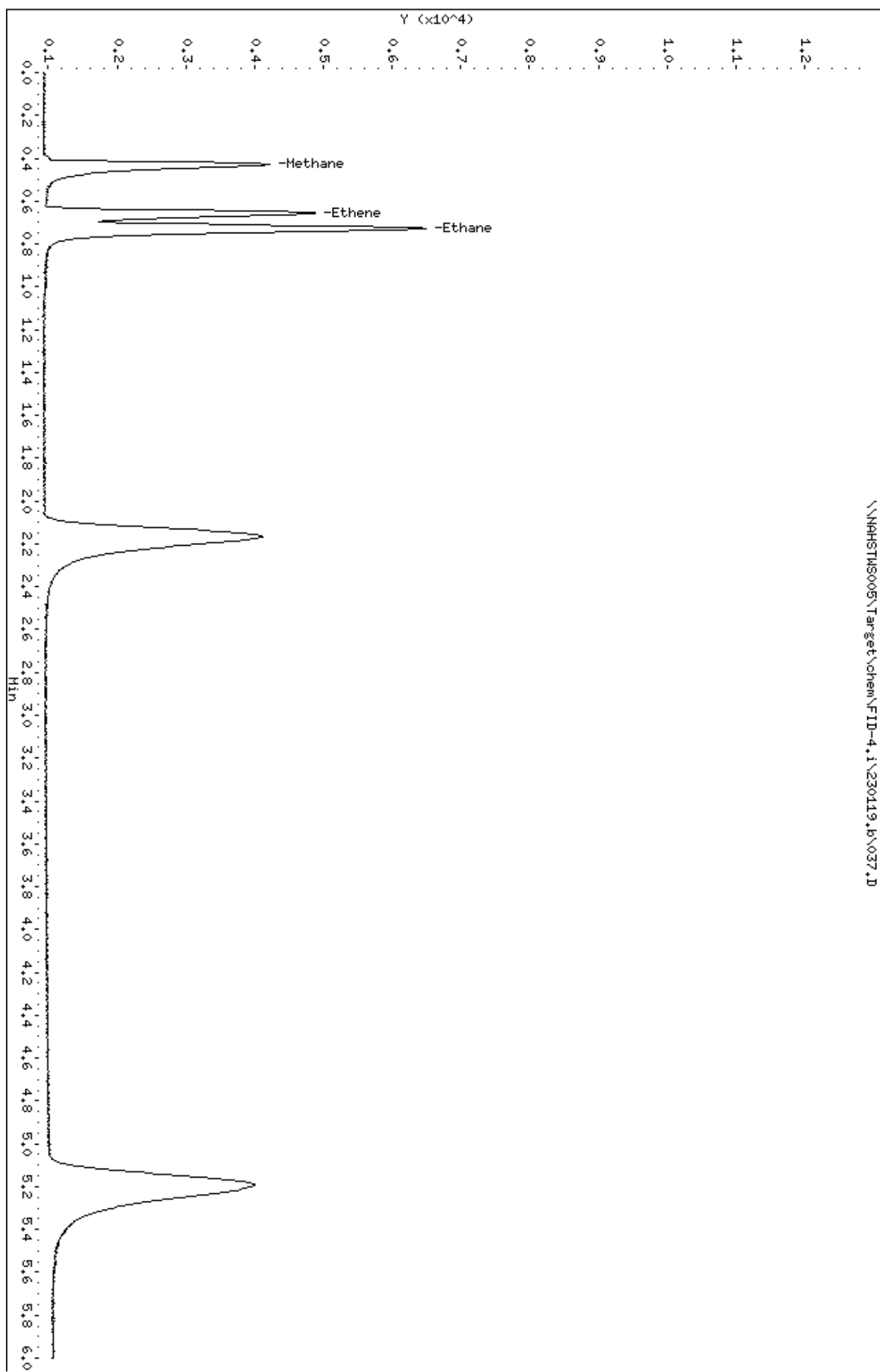
Page 1

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

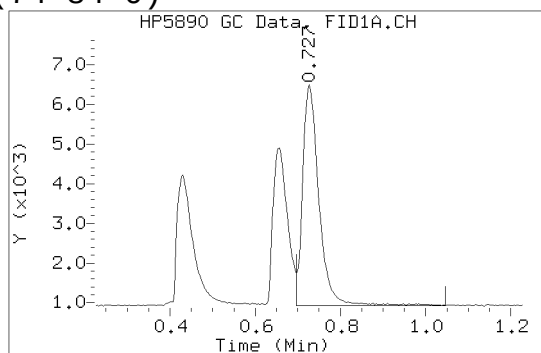
Column phase: Rtx-PL01



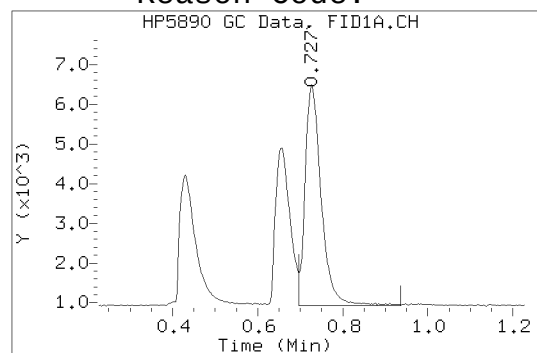
Data File : \\NAHSTWS005\Target\chem\FID-4.i\230119.b\037.D
Inj Date : 19-JAN-2023 14:35
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)**BEFORE**

MASS
44
AREA
14864
HEIGHT
5561
19-Jan-2023
14:43
ALSHS
Server

**AFTER**

MASS
44
AREA
14776
HEIGHT
5561
20-Jan-2023
14:22
ALSHS
Ser



HS23010587 - ME - ICP_W_DOD

ALS WO# HS23010587



FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.

Run ID: ICPMS07_426363

Project: LHAAP-58

Instrument: ICPMS07

WorkOrder: HS23010587

Method:

Start Date: 24-Jan-2023

End Date: 24-Jan-2023

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_426363_Tune	1	24-Jan-2023 00:00	ICPMS07_426363_Tune_1	
CAL BLK	1	24-Jan-2023 14:06	011CALB.d_7085584	AS
2/10/200	1	24-Jan-2023 14:08	012CALS.d_7085585	AS
5/25/500	1	24-Jan-2023 14:10	013CALS.d_7085586	AS
10/50/100	1	24-Jan-2023 14:12	014CALS.d_7085587	AS
100/500/10K	1	24-Jan-2023 14:13	015CALS.d_7085588	AS
200/1000/20K	1	24-Jan-2023 14:15	016CALS.d_7085589	AS
ICV	1	24-Jan-2023 14:21	019_ICV.d_7085592	AS
LLICV2	1	24-Jan-2023 14:23	020LCV2.d_7085593	AS
LLICV5	1	24-Jan-2023 14:25	021LCV5.d_7085594	AS
ICB	1	24-Jan-2023 14:27	022_ICB.d_7085595	AS
ICSA	1	24-Jan-2023 14:30	024ICSA.d_7085623	AS
ICSAB	1	24-Jan-2023 14:32	025ICSB.d_7085624	AS
CCB 1	1	24-Jan-2023 14:41	029_CCB.d_7085722	AS
CCV 1	1	24-Jan-2023 14:43	030_CCV.d_7085723	AS
MBLK-188726	1	24-Jan-2023 14:45	031SMPL.d_7085724	AS
LCS-188726	1	24-Jan-2023 14:47	032SMPL.d_7085725	AS
ZZZZZSD	5	24-Jan-2023 14:51	034SMPL.d_7085727	AS
ZZZZZMS	1	24-Jan-2023 14:53	035SMPL.d_7085728	AS
ZZZZZMSD	1	24-Jan-2023 14:55	036SMPL.d_7085729	AS
ZZZZZPDS	1	24-Jan-2023 14:57	037SMPL.d_7085730	AS
CCV 2	1	24-Jan-2023 15:06	041_CCV.d_7085734	AS
CCB 2	1	24-Jan-2023 15:08	042_CCB.d_7085735	AS
35AWW20_011223	1	24-Jan-2023 15:23	050SMPL.d_7085790	AS
CCV 3	1	24-Jan-2023 15:31	053_CCV.d_7085793	AS
CCB 3	1	24-Jan-2023 15:33	054_CCB.d_7085794	AS
ZZZZZSD	50	24-Jan-2023 16:01	059SMPL.d_7085955	
ZZZZZPDS	10	24-Jan-2023 16:03	060SMPL.d_7085956	
CCV 4	1	24-Jan-2023 16:06	062_CCV.d_7085958	AS
CCB 4	1	24-Jan-2023 16:08	063_CCB.d_7085959	AS
CCV 5	1	24-Jan-2023 16:27	073_CCV.d_7086003	AS
CCB 5	1	24-Jan-2023 16:29	074_CCB.d_7086004	AS



Form 2 - Initial and Continuing Calibration Verification**Client:** Bhate Environmental Associates, Inc.

Run ID: ICPMS07_426363

Project: LHAAP-58

Instrument: ICPMS07

WorkOrder: HS23010587

Method: SW6020A

ICV	Date: 24-Jan-2023 14:21	Seq: 7085592	ICV	Units: ug/L
Analyte	True	Found	%R	Control Limits
Arsenic	100	101.723	102	90-110
CCV1	Date: 24-Jan-2023 14:43	Seq: 7085723	CCV	Units: ug/L
Analyte	True	Found	%R	Control Limits
Arsenic	100	100.761	101	90-110
CCV2	Date: 24-Jan-2023 15:06	Seq: 7085734	CCV	Units: ug/L
Analyte	True	Found	%R	Control Limits
Arsenic	100	101.512	102	90-110
CCV3	Date: 24-Jan-2023 15:31	Seq: 7085793	CCV	Units: ug/L
Analyte	True	Found	%R	Control Limits
Arsenic	100	100.172	100	90-110
CCV4	Date: 24-Jan-2023 16:06	Seq: 7085958	CCV	Units: ug/L
Analyte	True	Found	%R	Control Limits
Arsenic	100	99.676	100	90-110
CCV5	Date: 24-Jan-2023 16:27	Seq: 7086003	CCV	Units: ug/L
Analyte	True	Found	%R	Control Limits
Arsenic	100	96.133	96	90-110



Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.

Run ID: ICPMS07_426363

Project: LHAAP-58

Instrument: ICPMS07

WorkOrder: HS23010587

Method: SW6020A

ICB	Date: 24-Jan-2023 14:27	Seq: 7085595	ICB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	5	0.4	5	U
CCB1	Date: 24-Jan-2023 14:41	Seq: 7085722	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U
MBLK-188726	Date: 24-Jan-2023 14:45	Seq: 7085724	MBLK	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	5	0.4	5	U
CCB2	Date: 24-Jan-2023 15:08	Seq: 7085735	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U
CCB3	Date: 24-Jan-2023 15:33	Seq: 7085794	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U
CCB4	Date: 24-Jan-2023 16:08	Seq: 7085959	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U
CCB5	Date: 24-Jan-2023 16:29	Seq: 7086004	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U



Form 4 - ICP Interference Check Sample**Client:** Bhate Environmental Associates, Inc.

Run ID:ICPMS07_426363

Project: LHAAP-58

Instrument:ICPMS07

WorkOrder: HS23010587

Method:SW6020A

ICSA	Date: 24-Jan-2023 14:30	Seq: 7085623	ICSA	Units: ug/L
Analyte	True	Found	%R	
Arsenic		0.275	0	
ICSAB	Date: 24-Jan-2023 14:32	Seq: 7085624	ICSAB	Units: ug/L
Analyte	True	Found	%R	
Arsenic	100	96.8	96.8	



Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Date Analyzed: 24-Jan-2023 14:55

Project: LHAAP-58

Date Extracted: 23-Jan-2023 13:00

WorkOrder: HS23010587

Units: ug/L

Matrix Spike: HS23010489-02MS

Analysis Method: SW6020A

Client Sample ID:

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD RPD Limit
Arsenic	0.6200	54.10	50.00	107	53.71	50.00	106	84-116	0.716 20



Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.

Date Analyzed: 24-Jan-2023 14:57

Project: LHAAP-58

Date Extracted: 23-Jan-2023 13:00

WorkOrder: HS23010587

Units: ug/L

Lab Sample ID: HS23010489-02PDS

Analysis Method: SW6020A

Client Sample ID:

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Arsenic	0.62	106	100	105	80-120

Form 7 - Laboratory Control Sample**Client:** Bhate Environmental Associates, Inc.

Date Analyzed: 24-Jan-2023 14:47

Project: LHAAP-58

Date Extracted: 23-Jan-2023 13:00

WorkOrder: HS23010587

Units: ug/L

Lab Sample ID: LCS-188726

Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Arsenic	50	49.72	99	84-116

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.

Date Analyzed: 24-Jan-2023 14:51

Project: LHAAP-58

Date Extracted: 23-Jan-2023 13:00

WorkOrder: HS23010587

Units: ug/L

Lab Sample ID: HS23010489-02SD

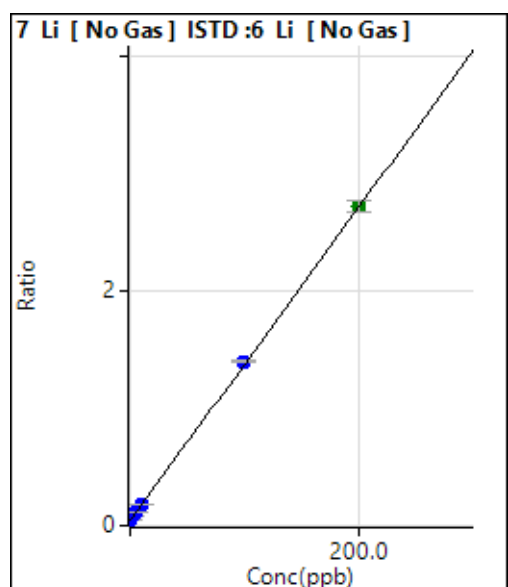
Analysis Method: SW6020A

Client Sample ID:

Analyte	Sample Result	C	SD Result	C	RPD	Q
Arsenic	0.62	J	0	U	0	

Batch Folder: D:\Agilent\ICPMH\1\DATA\012423D.b\
Analysis File: 012423D.batch.bin
DA Date-Time: 01/24/2023 19:36:14
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	011CALB.d	CAL BLK	01/24/2023 14:06:19
2	012CALS.d	2/10/200	01/24/2023 14:08:13
3	013CALS.d	5/25/500	01/24/2023 14:10:07
4	014CALS.d	10/50/100	01/24/2023 14:12:01
5	015CALS.d	100/500/10K	01/24/2023 14:13:55
6	016CALS.d	200/1000/20K	01/24/2023 14:15:47



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	31104.43	0.0568	P	1.1	
2	☐	2.000	2.046	46344.58	0.0841	P	2.3	2.3
3	☐	5.000	4.830	66840.23	0.1213	P	1.2	-3.4
4	☐	10.000	9.774	102684.64	0.1874	P	0.2	-2.3
5	☐	100.000	100.745	752594.42	1.4028	P	0.8	0.7
6	☐	200.000	199.643	1449657.63	2.7241	A	3.9	-0.2

$$y = 0.0134 * x + 0.0568$$

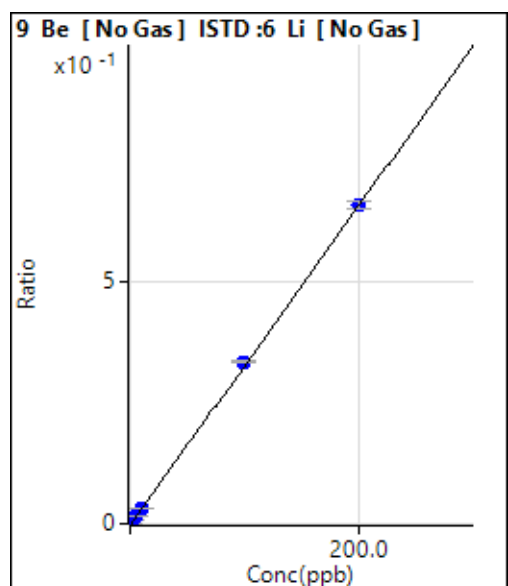
$$R = 1.0000$$

$$DL = 0.1385 \text{ ppb}$$

$$BEC = 4.251 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8.33	0.0000	P	68.9	
2	☐	2.000	1.954	3560.48	0.0065	P	6.5	-2.3
3	☐	5.000	4.860	8839.49	0.0160	P	2.0	-2.8
4	☐	10.000	9.950	17998.29	0.0328	P	0.7	-0.5
5	☐	100.000	100.994	178763.92	0.3332	P	1.2	1.0
6	☐	200.000	199.510	350337.32	0.6582	P	2.5	-0.2

$$y = 0.0033 * x + 1.5192E-005$$

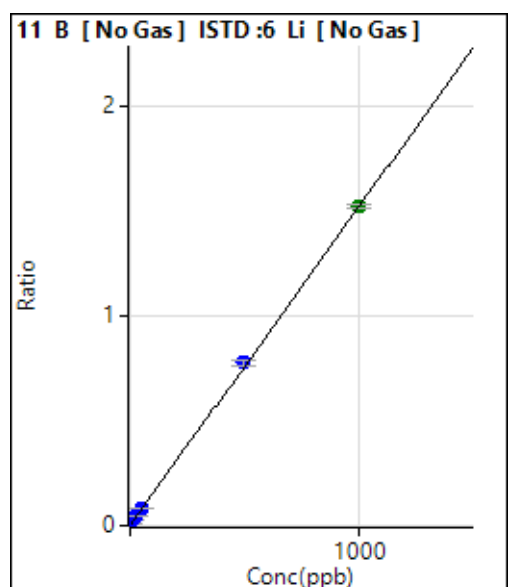
$$R = 1.0000$$

$$DL = 0.009516 \text{ ppb}$$

$$BEC = 0.004605 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5140.98	0.0094	P	4.8	
2	☐	10.000	9.693	13269.70	0.0241	P	5.0	-3.1
3	☐	25.000	23.848	25092.48	0.0456	P	1.4	-4.6
4	☐	50.000	49.028	45885.01	0.0837	P	2.6	-1.9
5	☐	500.000	505.613	416414.24	0.7761	P	3.0	1.1
6	☐	1000.000	997.274	810065.72	1.5217	A	0.7	-0.3

$$y = 0.0015 * x + 0.0094$$

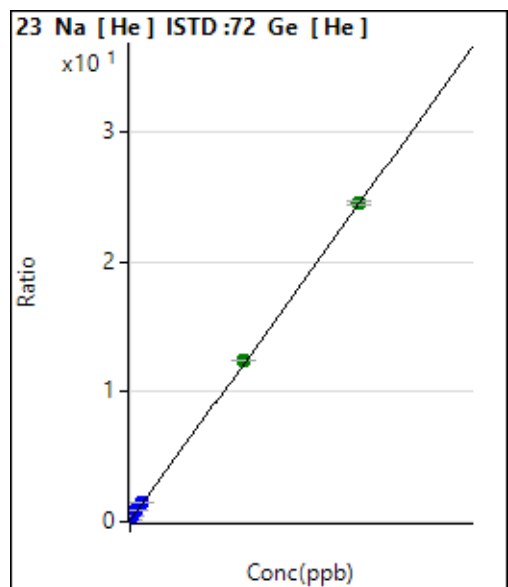
$$R = 1.0000$$

$$DL = 0.8907 \text{ ppb}$$

$$BEC = 6.191 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101027.18	0.2008	P	0.3	
2	☐	200.000	216.903	237864.85	0.4653	P	0.5	8.5
3	☐	500.000	520.274	423408.73	0.8352	P	0.4	4.1
4	☐	1000.000	1051.794	750565.64	1.4833	P	1.0	5.2
5	☐	10000.00	10020.17	6325838.45	12.4192	A	0.8	0.2
6	☐	20000.00	19986.64	12387284.4	24.5720	A	0.9	-0.1

$$y = 0.0012 * x + 0.2008$$

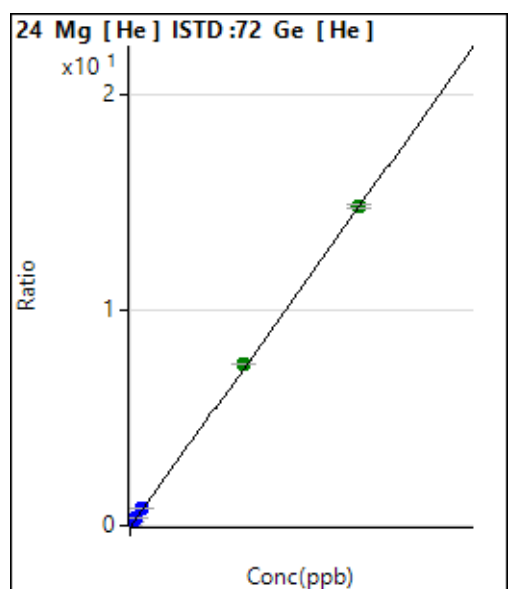
$$R = 1.0000$$

$$DL = 1.686 \text{ ppb}$$

$$BEC = 164.7 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0006	P	9.6	
2	☐	200.000	217.755	83023.37	0.1624	P	0.5	8.9
3	☐	500.000	511.849	193071.45	0.3808	P	0.5	2.4
4	☐	1000.000	1036.521	389928.35	0.7706	P	1.0	3.7
5	☐	10000.00	10080.56	3814350.88	7.4884	A	0.5	0.8
6	☐	20000.00	19957.41	7473373.84	14.8248	A	1.1	-0.2

$$y = 7.4279E-004 * x + 6.4920E-004$$

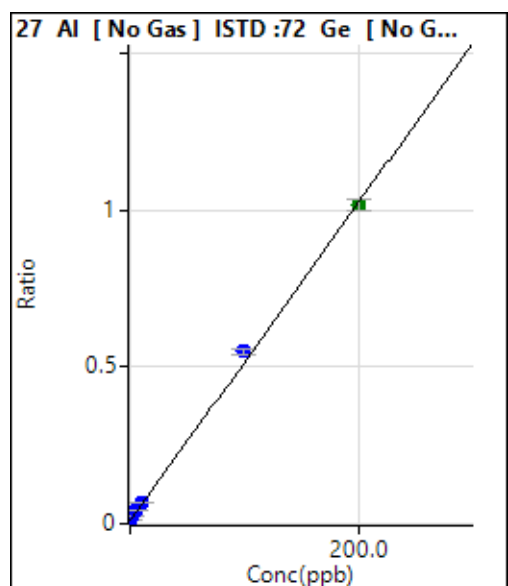
$$R = 1.0000$$

$$DL = 0.2529 \text{ ppb}$$

$$BEC = 0.874 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18893.14	0.0140	P	3.7	
2	☐	2.000	2.445	35726.35	0.0264	P	3.1	22.3
3	☐	5.000	5.257	54203.31	0.0407	P	2.5	5.1
4	☐	10.000	10.198	87270.42	0.0658	P	2.1	2.0
5	☐	100.000	105.292	725364.81	0.5483	P	2.6	5.3
6	☐	200.000	197.333	1334208.47	1.0154	A	3.5	-1.3

$$y = 0.0051 * x + 0.0140$$

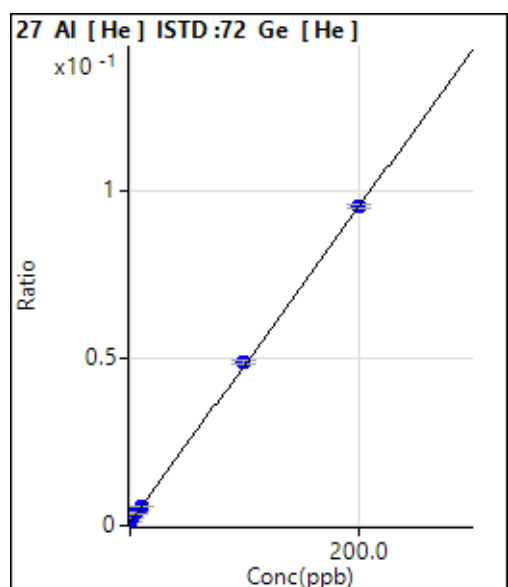
$$R = 0.9995$$

$$DL = 0.3059 \text{ ppb}$$

$$BEC = 2.764 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	696.69	0.0014	P	2.0	
2	☐	2.000	1.930	1173.40	0.0023	P	11.6	-3.5
3	☐	5.000	4.994	1896.83	0.0037	P	8.0	-0.1
4	☐	10.000	9.140	2883.68	0.0057	P	4.5	-8.6
5	☐	100.000	101.167	25026.04	0.0491	P	2.4	1.2
6	☐	200.000	199.460	48156.97	0.0955	P	0.9	-0.3

$$y = 4.7194\text{E-}004 * x + 0.0014$$

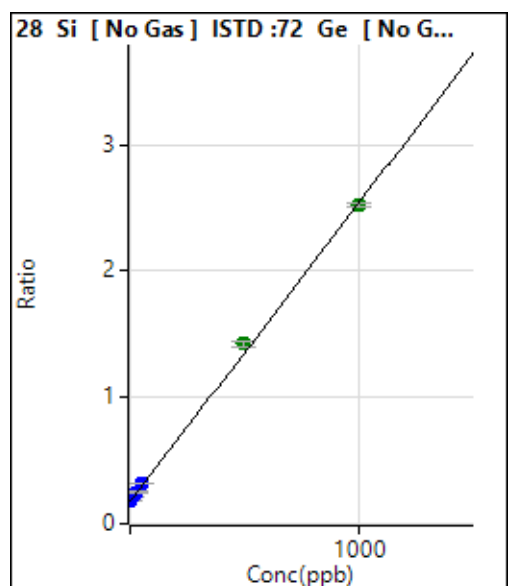
$$R = 1.0000$$

$$DL = 0.1775 \text{ ppb}$$

$$BEC = 2.934 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	252884.69	0.1877	P	0.7	
2	☐	10.000	10.993	288803.26	0.2136	P	1.9	9.9
3	☐	25.000	26.339	332818.71	0.2499	P	2.3	5.4
4	☐	50.000	53.313	416085.50	0.3136	P	1.2	6.6
5	☐	500.000	522.670	1881129.09	1.4221	A	2.8	4.5
6	☐	1000.000	988.456	3314842.55	2.5222	A	1.7	-1.2

$$y = 0.0024 * x + 0.1877$$

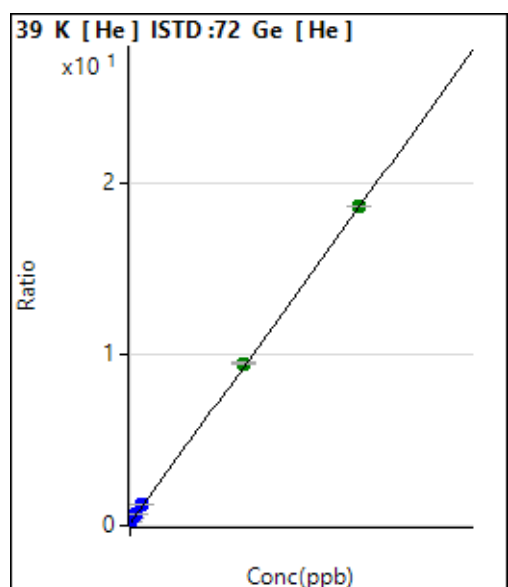
$$R = 0.9996$$

$$DL = 1.628 \text{ ppb}$$

$$BEC = 79.47 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113414.31	0.2254	P	2.1	
2	☐	200.000	212.846	215784.80	0.4221	P	0.9	6.4
3	☐	500.000	515.152	355581.01	0.7014	P	0.3	3.0
4	☐	1000.000	1047.945	604002.63	1.1937	P	0.8	4.8
5	☐	10000.00	10017.69	4829149.31	9.4810	A	1.2	0.2
6	☐	20000.00	19988.25	9423842.57	18.6930	A	0.5	-0.1

$$y = 9.2392\text{E-}004 * x + 0.2254$$

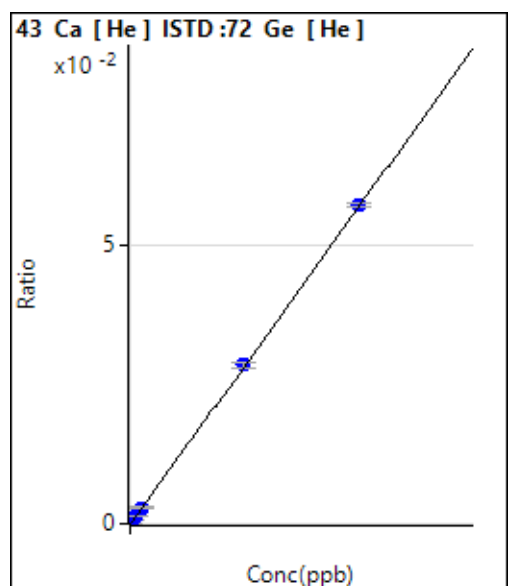
$$R = 1.0000$$

DL = 15.02 ppb

BEC = 244 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	64.7	
2	☐	200.000	172.748	316.68	0.0006	P	10.6	-13.6
3	☐	500.000	462.516	733.37	0.0014	P	9.8	-7.5
4	☐	1000.000	966.680	1460.11	0.0029	P	12.3	-3.3
5	☐	10000.00	9945.147	14514.66	0.0285	P	3.1	-0.5
6	☐	20000.00	20030.30	28873.84	0.0573	P	1.1	0.2

$$y = 2.8531\text{E-}006 * x + 1.2633\text{E-}004$$

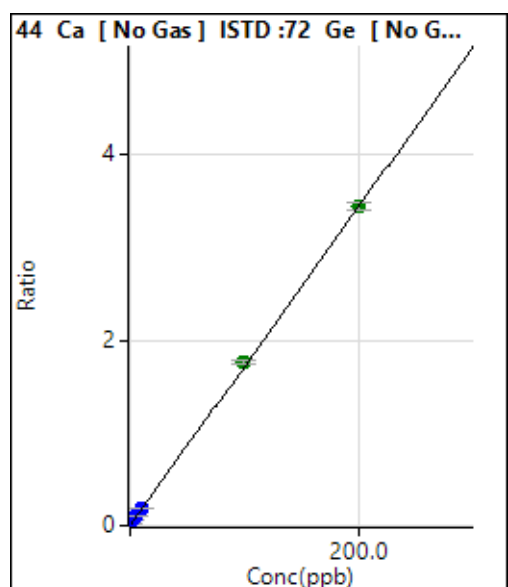
$$R = 1.0000$$

DL = 86 ppb

BEC = 44.28 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26672.93	0.0198	P	2.1	
2	☐	2.000	2.114	75875.20	0.0561	P	1.4	5.7
3	☐	5.000	5.017	141208.95	0.1060	P	2.4	0.3
4	☐	10.000	10.158	257908.17	0.1944	P	1.2	1.6
5	☐	100.000	101.605	2336336.16	1.7661	A	2.3	1.6
6	☐	200.000	199.188	4525142.74	3.4433	A	2.2	-0.4

$$y = 0.0172 * x + 0.0198$$

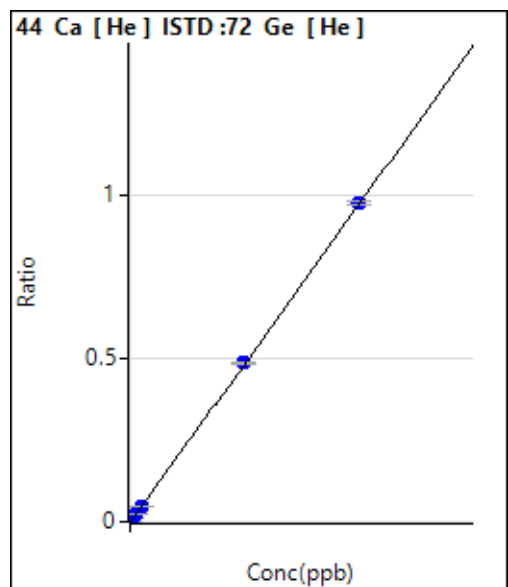
$$R = 1.0000$$

$$DL = 0.07133 \text{ ppb}$$

$$BEC = 1.152 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010.06	0.0020	P	7.7	
2	☐	200.000	209.584	6251.54	0.0122	P	4.7	4.8
3	☐	500.000	482.069	12936.31	0.0255	P	3.5	-3.6
4	☐	1000.000	978.472	25166.59	0.0497	P	0.6	-2.2
5	☐	10000.00	9979.116	248931.21	0.4887	P	1.2	-0.2
6	☐	20000.00	20011.87	493067.73	0.9781	P	1.2	0.1

$$y = 4.8775E-005 * x + 0.0020$$

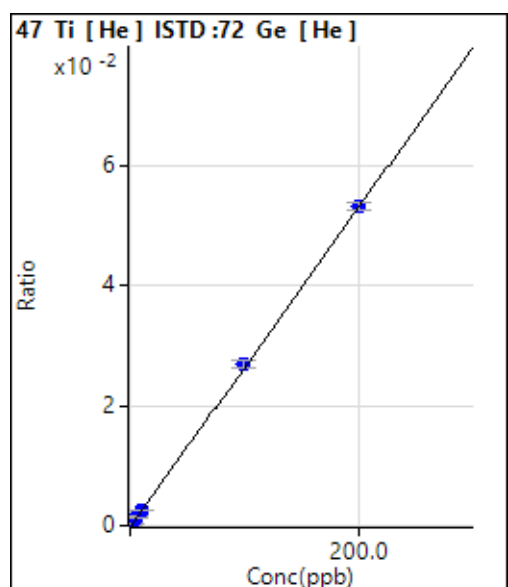
$$R = 1.0000$$

$$DL = 9.455 \text{ ppb}$$

$$BEC = 41.16 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	99.6	
2	☐	2.000	1.661	236.68	0.0005	P	6.0	-17.0
3	☐	5.000	5.325	730.04	0.0014	P	9.4	6.5
4	☐	10.000	9.409	1280.09	0.0025	P	9.6	-5.9
5	☐	100.000	100.767	13700.39	0.0269	P	4.9	0.8
6	☐	200.000	199.642	26863.42	0.0533	P	2.8	-0.2

$$y = 2.6678\text{E-}004 * x + 1.9740\text{E-}005$$

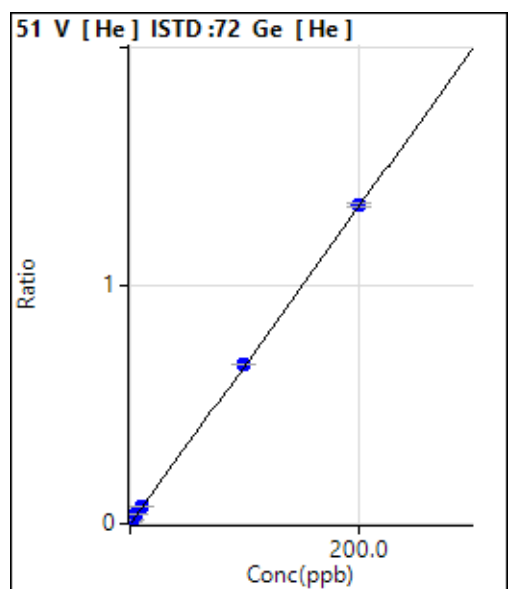
$$R = 1.0000$$

$$DL = 0.2211 \text{ ppb}$$

$$BEC = 0.07399 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2430.23	0.0048	P	3.5	
2	☐	2.000	2.031	9391.03	0.0184	P	2.1	1.6
3	☐	5.000	4.885	18957.62	0.0374	P	2.5	-2.3
4	☐	10.000	9.933	35949.27	0.0710	P	0.6	-0.7
5	☐	100.000	99.588	340589.51	0.6687	P	0.9	-0.4
6	☐	200.000	200.212	675227.80	1.3394	P	1.0	0.1

$$y = 0.0067 * x + 0.0048$$

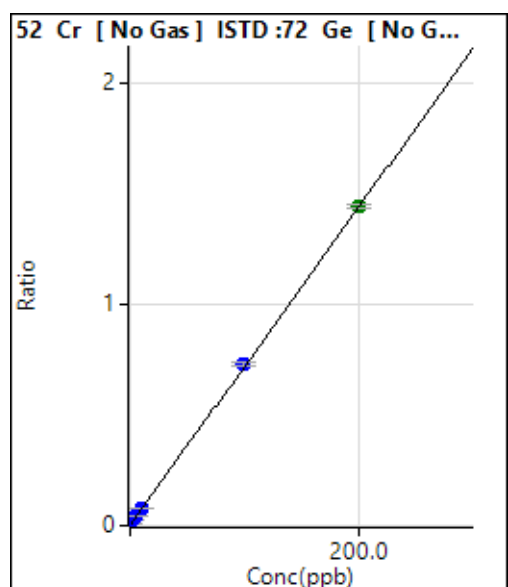
$$R = 1.0000$$

$$DL = 0.07567 \text{ ppb}$$

$$BEC = 0.7246 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12552.63	0.0093	P	2.0	
2	☐	2.000	2.062	32579.22	0.0241	P	3.5	3.1
3	☐	5.000	4.811	58374.54	0.0438	P	0.9	-3.8
4	☐	10.000	10.115	108619.23	0.0819	P	1.1	1.2
5	☐	100.000	100.872	969396.60	0.7328	P	2.4	0.9
6	☐	200.000	199.562	1893367.73	1.4407	A	1.4	-0.2

$$y = 0.0072 * x + 0.0093$$

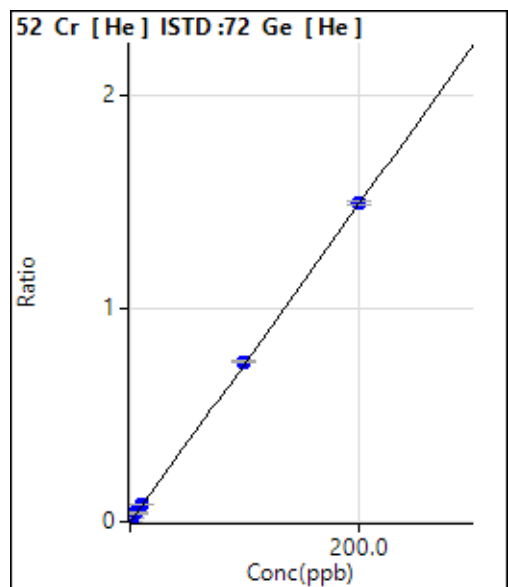
$$R = 1.0000$$

$$DL = 0.07667 \text{ ppb}$$

$$BEC = 1.299 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0041	P	7.3	
2	☐	2.000	1.982	9650.25	0.0189	P	1.6	-0.9
3	☐	5.000	4.932	20742.71	0.0409	P	1.7	-1.4
4	☐	10.000	10.111	40286.17	0.0796	P	1.1	1.1
5	☐	100.000	100.072	382903.76	0.7518	P	0.9	0.1
6	☐	200.000	199.960	755225.48	1.4981	P	0.6	0.0

$$y = 0.0075 * x + 0.0041$$

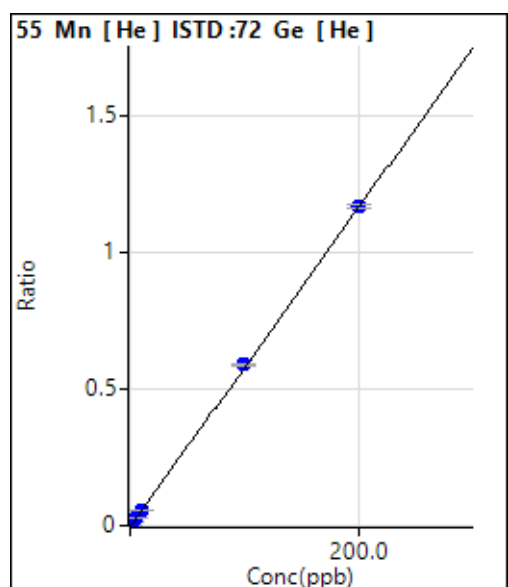
$$R = 1.0000$$

$$DL = 0.1197 \text{ ppb}$$

$$BEC = 0.5446 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	386.68	0.0008	P	20.8	
2	☐	2.000	2.146	6805.16	0.0133	P	6.1	7.3
3	☐	5.000	5.081	15442.34	0.0305	P	5.1	1.6
4	☐	10.000	9.973	29886.40	0.0591	P	2.3	-0.3
5	☐	100.000	100.561	299792.83	0.5886	P	0.8	0.6
6	☐	200.000	199.717	588910.94	1.1682	P	0.7	-0.1

$$y = 0.0058 * x + 7.6957E-004$$

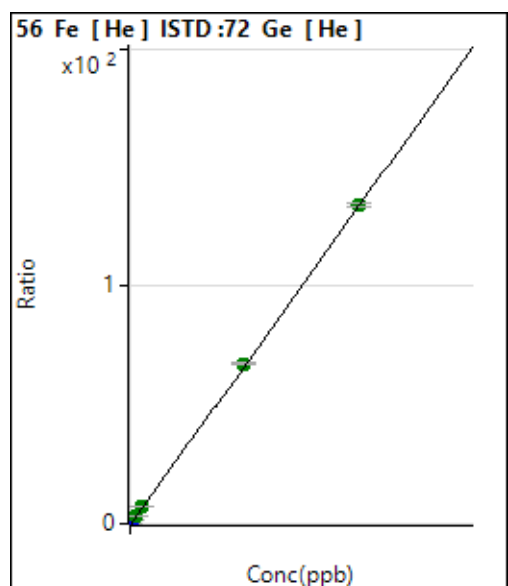
$$R = 1.0000$$

$$DL = 0.08196 \text{ ppb}$$

$$BEC = 0.1317 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23173.30	0.0461	P	0.6	
2	☐	200.000	221.121	783381.50	1.5323	P	0.5	10.6
3	☐	500.000	527.093	1819521.95	3.5889	A	1.0	5.4
4	☐	1000.000	1029.517	3524658.70	6.9660	A	1.9	3.0
5	☐	10000.00	10017.98	34321280.3	67.3824	A	0.8	0.2
6	☐	20000.00	19988.64	67754672.3	134.400	A	1.1	-0.1

$$y = 0.0067 * x + 0.0461$$

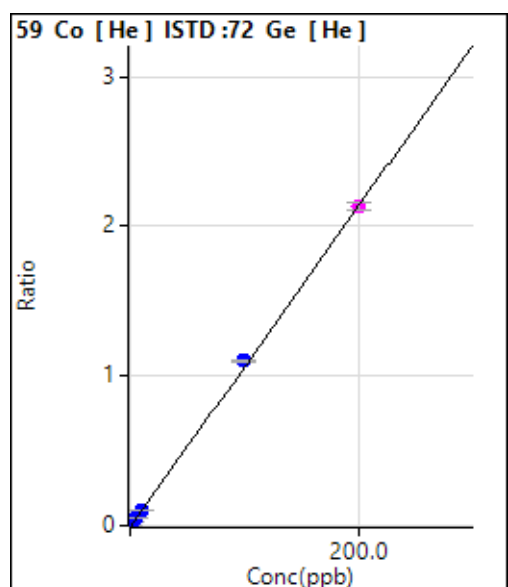
$$R = 1.0000$$

$$DL = 0.1135 \text{ ppb}$$

$$BEC = 6.852 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	32.4	
2	☐	2.000	2.115	11678.55	0.0228	P	3.6	5.7
3	☐	5.000	5.108	27878.83	0.0550	P	1.4	2.2
4	☐	10.000	10.104	54978.02	0.1086	P	0.1	1.0
5	☐	100.000	102.595	561311.49	1.1021	P	1.4	2.6
6	☐	200.000	198.694	1076189.38	2.1342	M	2.7	-0.7

$$y = 0.0107 * x + 1.2569E-004$$

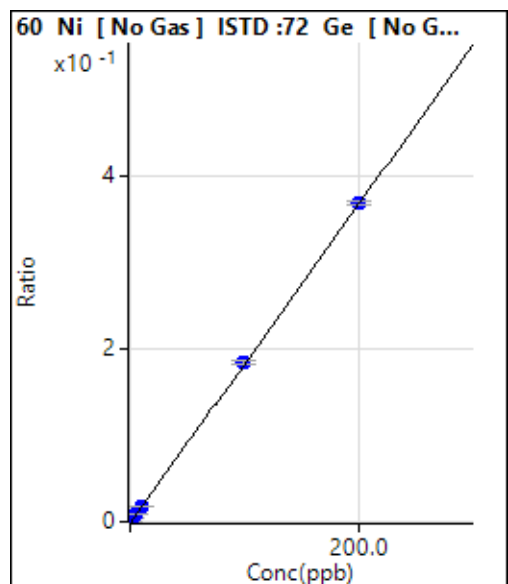
$$R = 0.9999$$

$$DL = 0.01139 \text{ ppb}$$

$$BEC = 0.0117 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	6.1	
2	☐	2.000	2.031	5317.79	0.0039	P	3.5	1.5
3	☐	5.000	4.818	12105.57	0.0091	P	6.0	-3.6
4	☐	10.000	9.871	24465.64	0.0184	P	1.0	-1.3
5	☐	100.000	100.347	245792.80	0.1858	P	2.5	0.3
6	☐	200.000	199.837	486049.50	0.3698	P	1.3	-0.1

$$y = 0.0018 * x + 1.7804E-004$$

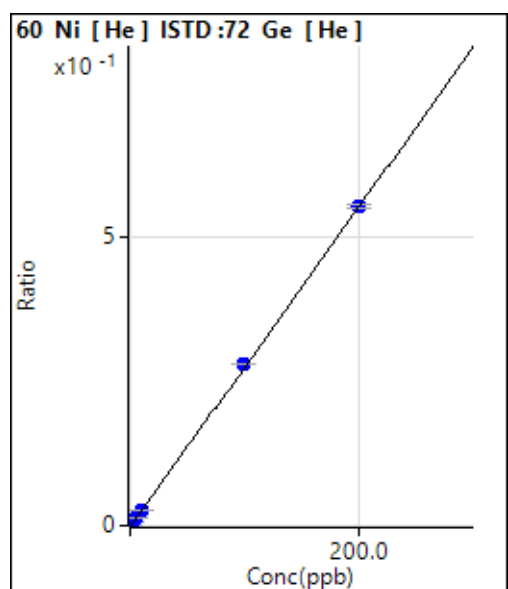
$$R = 1.0000$$

$$DL = 0.01762 \text{ ppb}$$

$$BEC = 0.09625 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0002	P	16.8	
2	☐	2.000	2.155	3143.75	0.0062	P	7.1	7.8
3	☐	5.000	5.166	7338.77	0.0145	P	4.5	3.3
4	☐	10.000	9.902	13950.71	0.0276	P	0.7	-1.0
5	☐	100.000	100.886	142177.87	0.2791	P	0.6	0.9
6	☐	200.000	199.556	278239.97	0.5519	P	1.1	-0.2

$$y = 0.0028 * x + 1.9234E-004$$

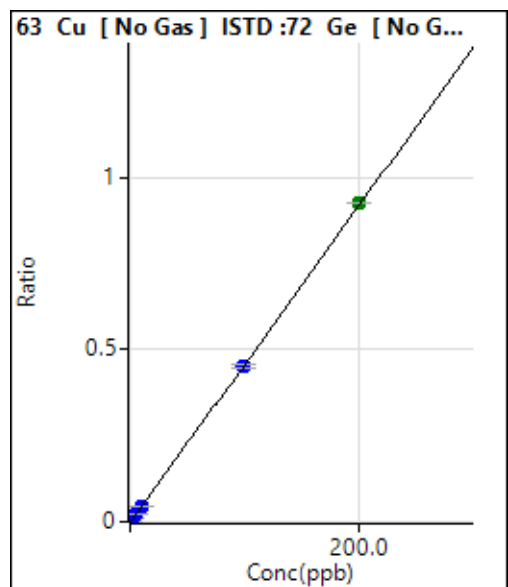
$$R = 1.0000$$

$$DL = 0.03499 \text{ ppb}$$

$$BEC = 0.06957 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2620.30	0.0019	P	5.4	
2	☐	2.000	2.151	16006.39	0.0118	P	0.9	7.6
3	☐	5.000	4.837	32211.84	0.0242	P	2.8	-3.3
4	☐	10.000	9.683	61660.37	0.0465	P	1.8	-3.2
5	☐	100.000	98.164	599755.42	0.4534	P	2.5	-1.8
6	☐	200.000	200.937	1217164.67	0.9260	A	0.6	0.5

$$y = 0.0046 * x + 0.0019$$

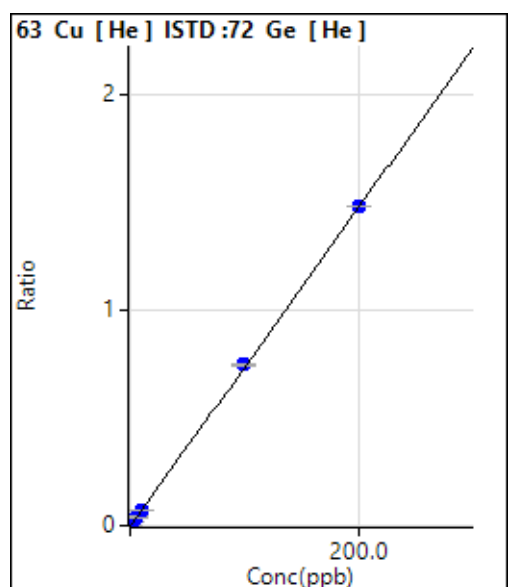
$$R = 0.9999$$

$$DL = 0.06842 \text{ ppb}$$

$$BEC = 0.4231 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1530.11	0.0030	P	15.1	
2	☐	2.000	2.218	9943.81	0.0194	P	1.3	10.9
3	☐	5.000	4.879	19841.47	0.0391	P	5.2	-2.4
4	☐	10.000	9.755	38053.67	0.0752	P	1.2	-2.4
5	☐	100.000	100.621	380628.81	0.7473	P	1.3	0.6
6	☐	200.000	199.702	746230.43	1.4802	P	0.2	-0.1

$$y = 0.0074 * x + 0.0030$$

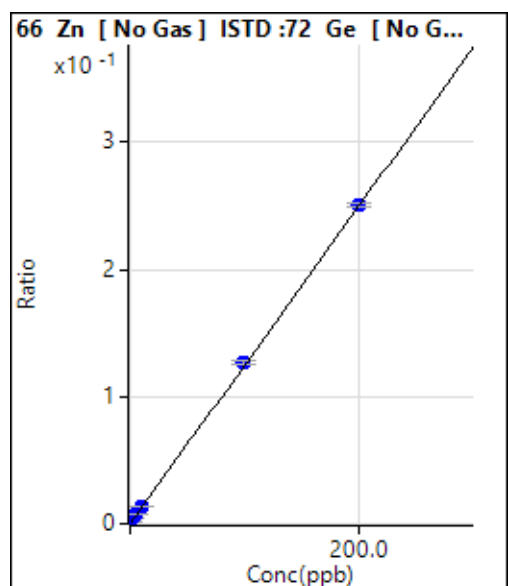
$$R = 1.0000$$

$$DL = 0.1864 \text{ ppb}$$

$$BEC = 0.4116 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1673.47	0.0012	P	4.0	
2	☐	2.000	2.635	6124.87	0.0045	P	2.5	31.7
3	☐	5.000	5.358	10560.95	0.0079	P	2.9	7.2
4	☐	10.000	9.728	17758.56	0.0134	P	4.0	-2.7
5	☐	100.000	100.357	167340.06	0.1265	P	3.0	0.4
6	☐	200.000	199.820	329448.44	0.2507	P	0.8	-0.1

$$y = 0.0012 * x + 0.0012$$

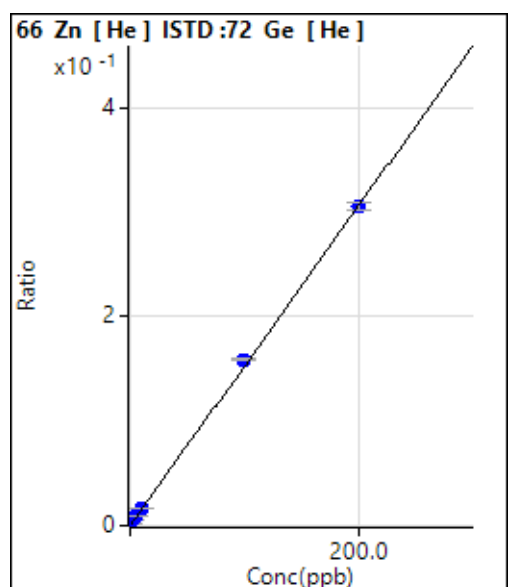
$$R = 1.0000$$

$$DL = 0.1196 \text{ ppb}$$

$$BEC = 0.9948 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	753.36	0.0015	P	20.6	
2	☐	2.000	2.907	3040.39	0.0059	P	4.9	45.3
3	☐	5.000	5.431	4974.33	0.0098	P	5.1	8.6
4	☐	10.000	10.196	8659.58	0.0171	P	4.0	2.0
5	☐	100.000	102.786	80934.13	0.1589	P	1.6	2.8
6	☐	200.000	198.577	154047.58	0.3056	P	2.0	-0.7

$$y = 0.0015 * x + 0.0015$$

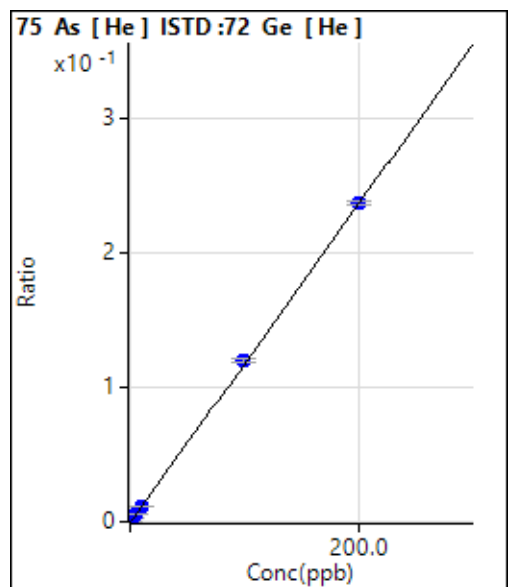
$$R = 0.9999$$

$$DL = 0.603 \text{ ppb}$$

$$BEC = 0.9769 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	135.56	0.0003	P	14.6	
2	☐	2.000	2.168	1454.53	0.0028	P	0.3	8.4
3	☐	5.000	4.915	3097.04	0.0061	P	5.4	-1.7
4	☐	10.000	9.854	6060.27	0.0120	P	1.6	-1.5
5	☐	100.000	100.875	61180.07	0.1201	P	2.0	0.9
6	☐	200.000	199.570	119665.51	0.2374	P	1.3	-0.2

$$y = 0.0012 * x + 2.6946E-004$$

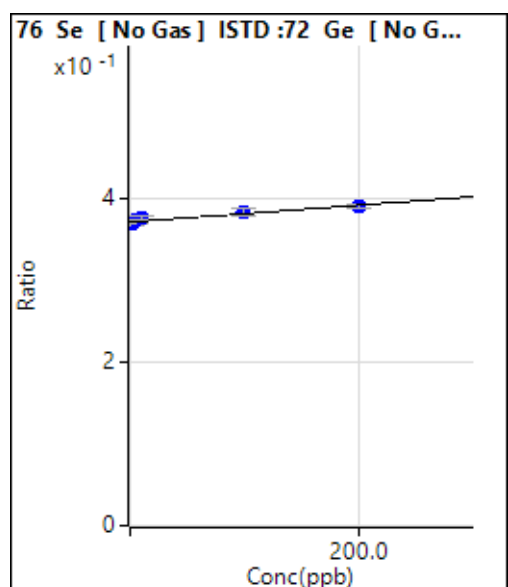
$$R = 1.0000$$

$$DL = 0.09919 \text{ ppb}$$

$$BEC = 0.2268 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	498864.16	0.3703	P	1.3	
2	☐	2.000	-9.219	499244.45	0.3693	P	1.6	-561.0
3	☐	5.000	31.939	497523.63	0.3736	P	2.4	538.8
4	☐	10.000	56.911	499087.15	0.3762	P	1.4	469.1
5	☐	100.000	122.857	506626.49	0.3830	P	2.4	22.9
6	☐	200.000	185.665	511875.65	0.3895	P	0.7	-7.2

$$y = 1.0343E-004 * x + 0.3703$$

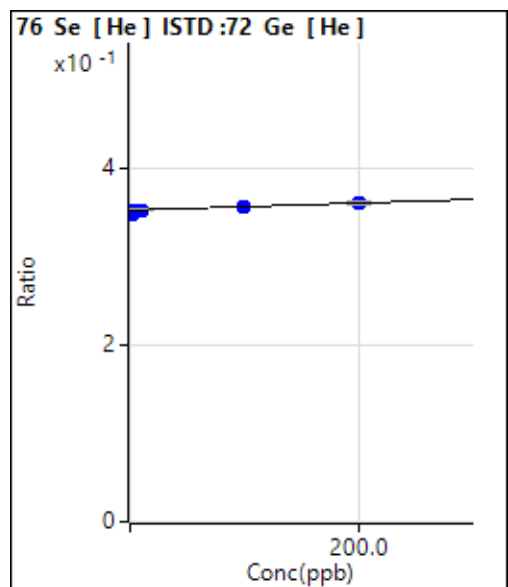
$$R = 0.9554$$

DL = 140.6 ppb

BEC = 3580 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176999.69	0.3518	P	0.9	
2	☐	2.000	-91.861	177905.39	0.3480	P	0.4	-4693.0
3	☐	5.000	11.284	178584.32	0.3523	P	0.8	125.7
4	☐	10.000	0.566	178033.06	0.3518	P	0.6	-94.3
5	☐	100.000	102.971	181368.92	0.3561	P	0.4	3.0
6	☐	200.000	199.768	181524.07	0.3601	P	1.6	-0.1

$$y = 4.1506E-005 * x + 0.3518$$

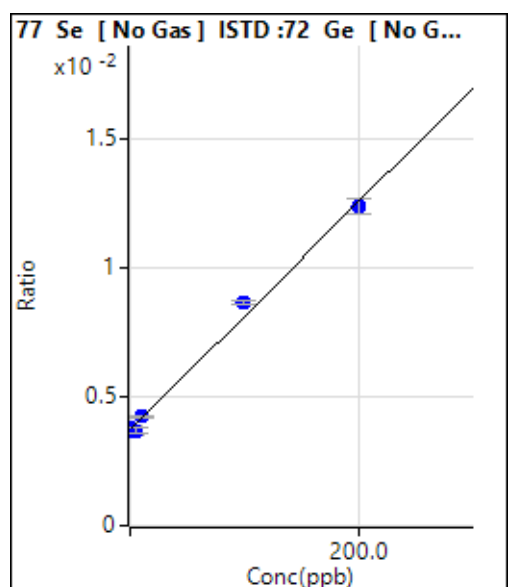
$$R = 0.9315$$

DL = 217.1 ppb

BEC = 8476 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5147.74	0.0038	P	1.6	
2	☐	2.000	-3.573	4951.00	0.0037	P	7.2	-278.6
3	☐	5.000	-2.784	4927.64	0.0037	P	5.5	-155.7
4	☐	10.000	9.381	5617.94	0.0042	P	2.2	-6.2
5	☐	100.000	110.616	11505.10	0.0087	P	1.6	10.6
6	☐	200.000	194.973	16310.12	0.0124	P	4.3	-2.5

$$y = 4.4070\text{E-}005 * x + 0.0038$$

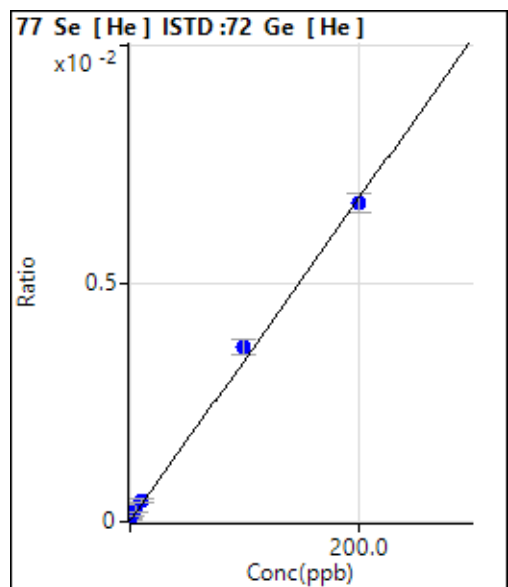
$$R = 0.9969$$

$$DL = 4.252 \text{ ppb}$$

$$BEC = 86.7 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0001	P	43.4	
2	☐	2.000	3.057	80.00	0.0002	P	32.9	52.8
3	☐	5.000	6.974	146.67	0.0003	P	51.1	39.5
4	☐	10.000	11.274	220.01	0.0004	P	15.9	12.7
5	☐	100.000	107.186	1873.50	0.0037	P	8.9	7.2
6	☐	200.000	196.284	3373.82	0.0067	P	6.2	-1.9

$$y = 3.3839\text{E-}005 * x + 5.3015\text{E-}005$$

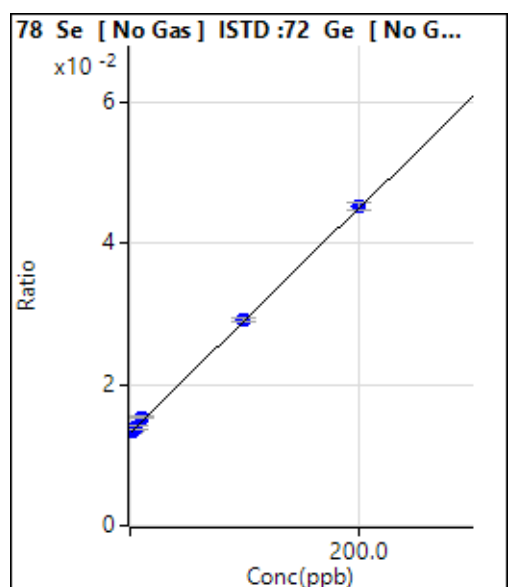
$$R = 0.9991$$

$$DL = 2.04 \text{ ppb}$$

$$BEC = 1.567 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18172.48	0.0135	P	4.2	
2	☐	2.000	-0.165	18202.56	0.0135	P	2.3	-108.3
3	☐	5.000	3.068	18613.17	0.0140	P	3.9	-38.6
4	☐	10.000	11.468	20315.63	0.0153	P	1.6	14.7
5	☐	100.000	99.087	38635.60	0.0292	P	2.2	-0.9
6	☐	200.000	200.453	59504.80	0.0453	P	1.9	0.2

$$y = 1.5857E-004 * x + 0.0135$$

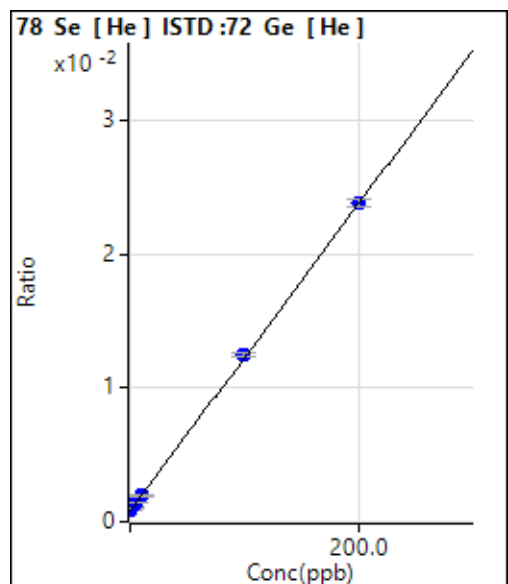
$$R = 0.9999$$

DL = 10.81 ppb

BEC = 85.09 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	463.34	0.0009	P	5.5	
2	☐	2.000	1.514	560.01	0.0011	P	4.1	-24.3
3	☐	5.000	4.677	740.02	0.0015	P	4.8	-6.5
4	☐	10.000	8.950	987.37	0.0020	P	2.7	-10.5
5	☐	100.000	101.199	6403.54	0.0126	P	2.2	1.2
6	☐	200.000	199.466	12038.06	0.0239	P	1.9	-0.3

$$y = 1.1511E-004 * x + 9.2116E-004$$

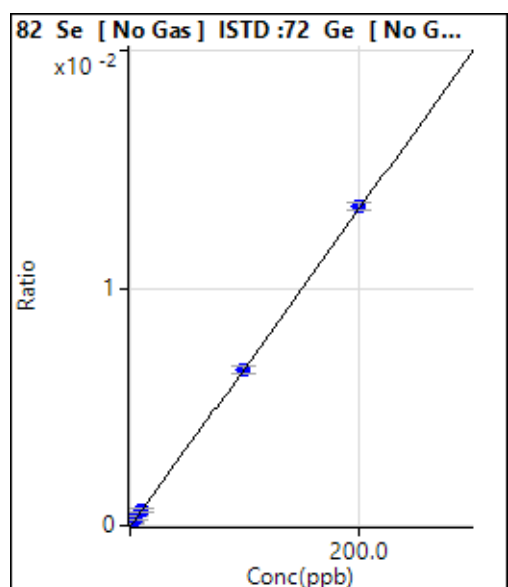
$$R = 1.0000$$

DL = 1.316 ppb

BEC = 8.003 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22.37	0.0000	P	654.	
2	☐	2.000	1.228	132.63	0.0001	P	73.7	-38.6
3	☐	5.000	4.840	449.38	0.0003	P	35.3	-3.2
4	☐	10.000	9.419	856.15	0.0006	P	21.1	-5.8
5	☐	100.000	98.007	8682.83	0.0066	P	3.9	-2.0
6	☐	200.000	201.037	17671.97	0.0134	P	2.5	0.5

$$y = 6.6815E-005 * x + 1.5742E-005$$

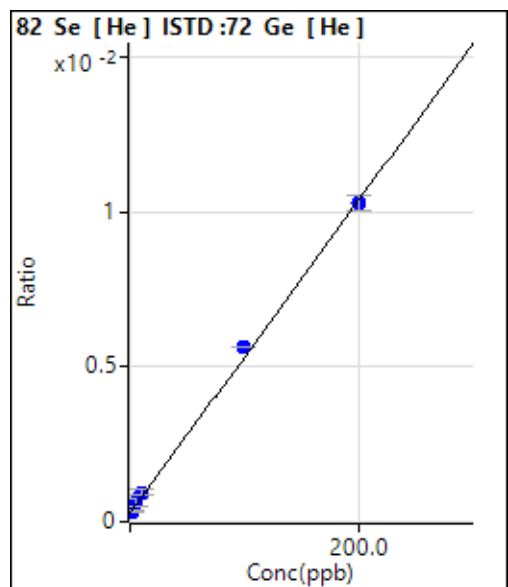
$$R = 0.9999$$

$$DL = 4.623 \text{ ppb}$$

$$BEC = 0.2356 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	21.6	
2	☐	2.000	0.155	173.33	0.0003	P	19.1	-92.3
3	☐	5.000	5.409	306.68	0.0006	P	37.8	8.2
4	☐	10.000	12.202	480.02	0.0009	P	16.5	22.0
5	☐	100.000	105.272	2880.36	0.0057	P	0.6	5.3
6	☐	200.000	197.262	5194.42	0.0103	P	4.4	-1.4

$$y = 5.0568E-005 * x + 3.3144E-004$$

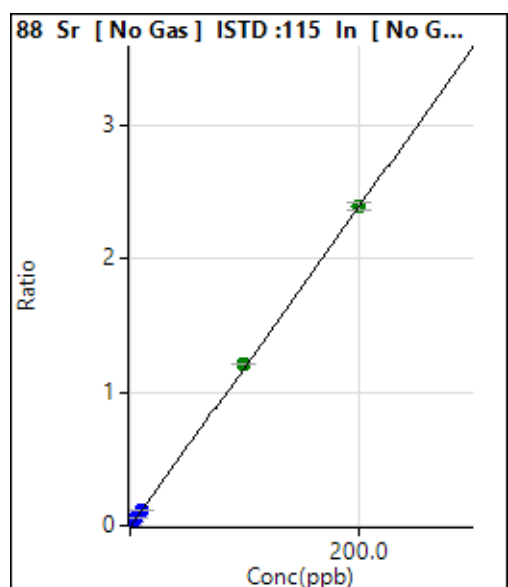
$$R = 0.9994$$

$$DL = 4.238 \text{ ppb}$$

$$BEC = 6.554 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0003	P	10.3	
2	☐	2.000	2.036	28287.01	0.0247	P	1.1	1.8
3	☐	5.000	4.799	66344.93	0.0579	P	1.1	-4.0
4	☐	10.000	9.708	132876.70	0.1168	P	0.6	-2.9
5	☐	100.000	100.958	1372928.36	1.2114	A	1.1	1.0
6	☐	200.000	199.540	2708755.17	2.3939	A	2.5	-0.2

$$y = 0.0120 * x + 3.2664E-004$$

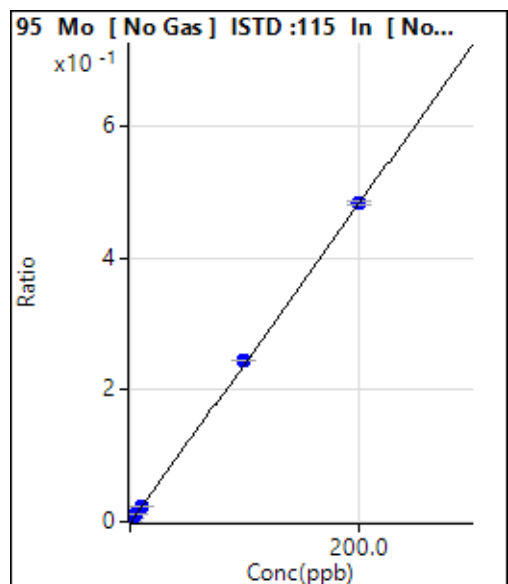
$$R = 1.0000$$

$$DL = 0.008434 \text{ ppb}$$

$$BEC = 0.02723 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0000	P	69.1	
2	☐	2.000	2.044	5697.99	0.0050	P	4.5	2.2
3	☐	5.000	4.763	13270.14	0.0116	P	3.0	-4.7
4	☐	10.000	9.852	27208.18	0.0239	P	1.3	-1.5
5	☐	100.000	100.585	276340.74	0.2438	P	0.1	0.6
6	☐	200.000	199.720	547849.20	0.4841	P	1.3	-0.1

$$y = 0.0024 * x + 3.2451E-005$$

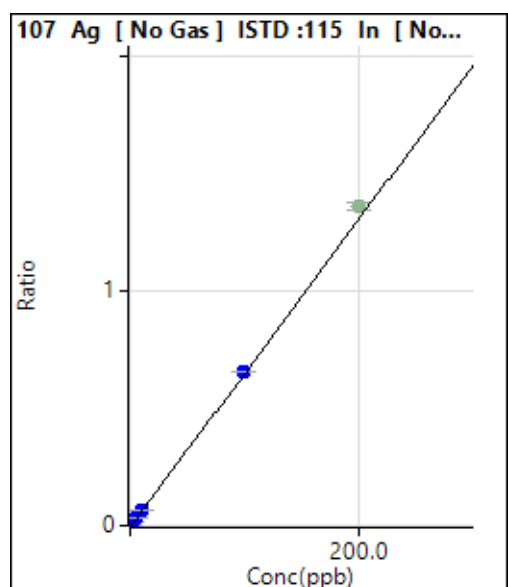
$$R = 1.0000$$

$$DL = 0.02775 \text{ ppb}$$

$$BEC = 0.01339 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	26.4	
2	☐	2.000	2.005	15235.74	0.0133	P	2.6	0.3
3	☐	5.000	4.899	36968.82	0.0323	P	2.3	-2.0
4	☐	10.000	9.775	73001.98	0.0642	P	1.0	-2.3
5	☐	100.000	100.027	741818.82	0.6546	P	0.4	0.0
6	☒	200.000		1537311.64	1.3584	A	2.3	

$$y = 0.0065 * x + 2.1210E-004$$

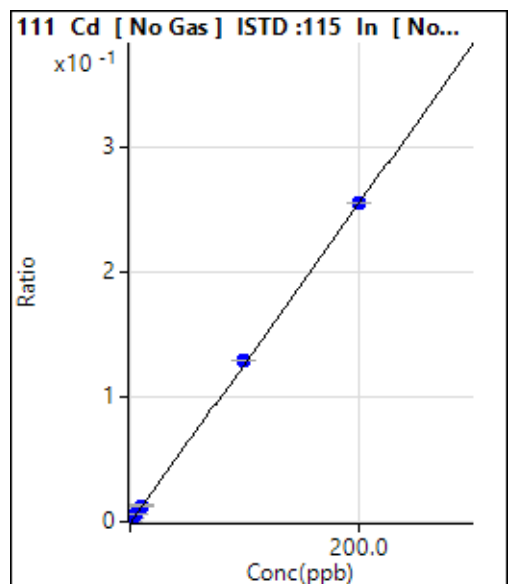
$$R = 1.0000$$

$$DL = 0.02569 \text{ ppb}$$

$$BEC = 0.03242 \text{ ppb}$$

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	☐	2.000	2.041	2993.73	0.0026	P	4.3	2.1
3	☐	5.000	4.872	7158.75	0.0062	P	1.9	-2.6
4	☐	10.000	10.088	14715.10	0.0129	P	3.6	0.9
5	☐	100.000	100.972	146656.78	0.1294	P	0.4	1.0
6	☐	200.000	199.513	289375.89	0.2557	P	0.6	-0.2

$$y = 0.0013 * x + 2.9290E-006$$

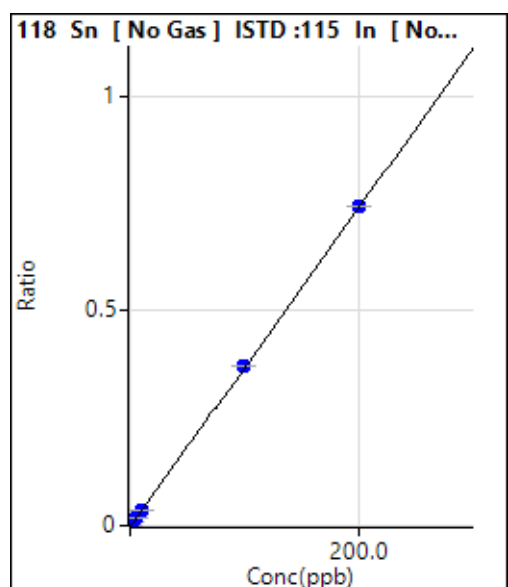
$$R = 1.0000$$

$$DL = 0.01188 \text{ ppb}$$

$$BEC = 0.002285 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.04	0.0007	P	8.2	
2	☐	2.000	1.978	9206.72	0.0081	P	5.0	-1.1
3	☐	5.000	4.823	21341.00	0.0186	P	1.7	-3.5
4	☐	10.000	9.829	42348.82	0.0372	P	2.6	-1.7
5	☐	100.000	99.911	421376.02	0.3718	P	0.7	-0.1
6	☐	200.000	200.058	841801.94	0.7438	P	0.5	0.0

$$y = 0.0037 * x + 7.0632E-004$$

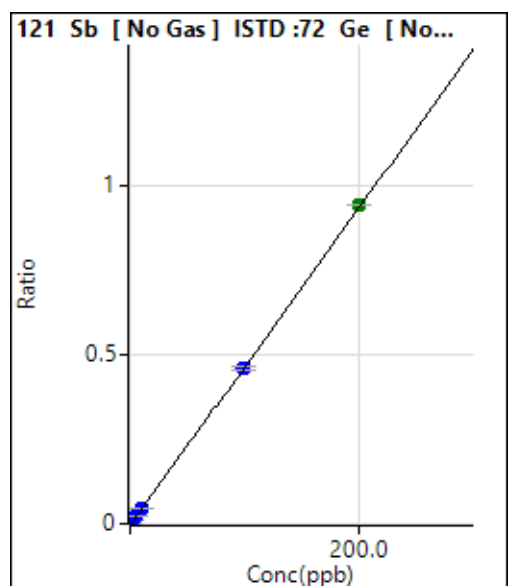
$$R = 1.0000$$

$$DL = 0.04704 \text{ ppb}$$

$$BEC = 0.1902 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0003	P	34.2	
2	☐	2.000	2.016	13116.82	0.0097	P	2.8	0.8
3	☐	5.000	4.779	30158.48	0.0226	P	2.4	-4.4
4	☐	10.000	9.573	59803.39	0.0451	P	4.0	-4.3
5	☐	100.000	97.737	605591.85	0.4578	P	2.5	-2.3
6	☐	200.000	201.158	1237981.78	0.9419	A	0.5	0.6

$$y = 0.0047 * x + 2.6754E-004$$

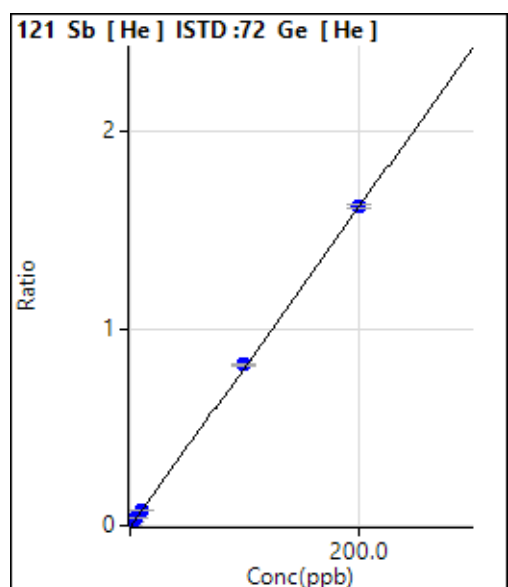
$$R = 0.9999$$

$$DL = 0.05863 \text{ ppb}$$

$$BEC = 0.05715 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.67	0.0004	P	13.1	
2	☐	2.000	1.988	8472.89	0.0166	P	3.1	-0.6
3	☐	5.000	4.958	20626.56	0.0407	P	3.0	-0.8
4	☐	10.000	10.051	41516.17	0.0821	P	2.2	0.5
5	☐	100.000	100.553	416132.53	0.8170	P	1.1	0.6
6	☐	200.000	199.722	817838.92	1.6223	P	1.1	-0.1

$$y = 0.0081 * x + 4.3025E-004$$

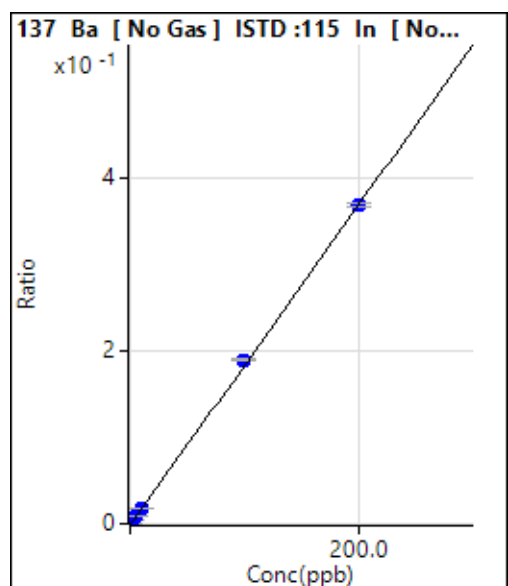
$$R = 1.0000$$

$$DL = 0.02075 \text{ ppb}$$

$$BEC = 0.05298 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.68	0.0002	P	17.4	
2	☐	2.000	2.073	4620.91	0.0040	P	1.8	3.7
3	☐	5.000	4.907	10654.58	0.0093	P	2.0	-1.9
4	☐	10.000	9.660	20603.38	0.0181	P	2.1	-3.4
5	☐	100.000	102.225	214940.52	0.1897	P	1.2	2.2
6	☐	200.000	198.906	417401.04	0.3689	P	1.5	-0.5

$$y = 0.0019 * x + 2.0033E-004$$

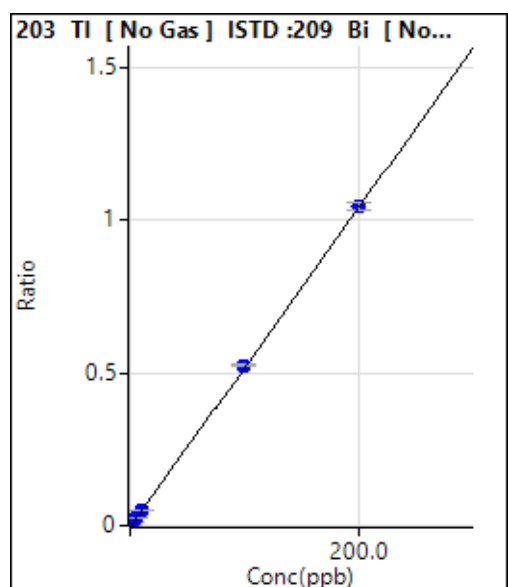
$$R = 0.9999$$

$$DL = 0.05652 \text{ ppb}$$

$$BEC = 0.1081 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	22.0	
2	☐	2.000	1.939	9430.41	0.0102	P	1.2	-3.1
3	☐	5.000	4.656	22694.36	0.0243	P	3.1	-6.9
4	☐	10.000	9.564	46413.41	0.0500	P	0.6	-4.4
5	☐	100.000	100.314	483680.19	0.5240	P	1.4	0.3
6	☐	200.000	199.874	954064.60	1.0440	P	2.7	-0.1

$$y = 0.0052 * x + 2.8904E-005$$

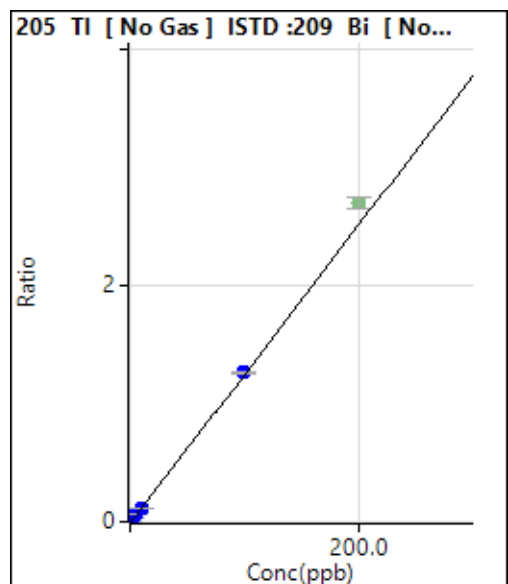
$$R = 1.0000$$

$$DL = 0.003649 \text{ ppb}$$

$$BEC = 0.005534 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	65.7	
2	☐	2.000	1.984	23285.39	0.0251	P	0.8	-0.8
3	☐	5.000	4.621	54385.89	0.0583	P	1.1	-7.6
4	☐	10.000	9.516	111524.03	0.1201	P	0.3	-4.8
5	☐	100.000	100.068	1165429.62	1.2626	P	0.9	0.1
6	☒	200.000		2464196.48	2.6967	A	3.2	

$$y = 0.0126 * x + 4.3260E-005$$

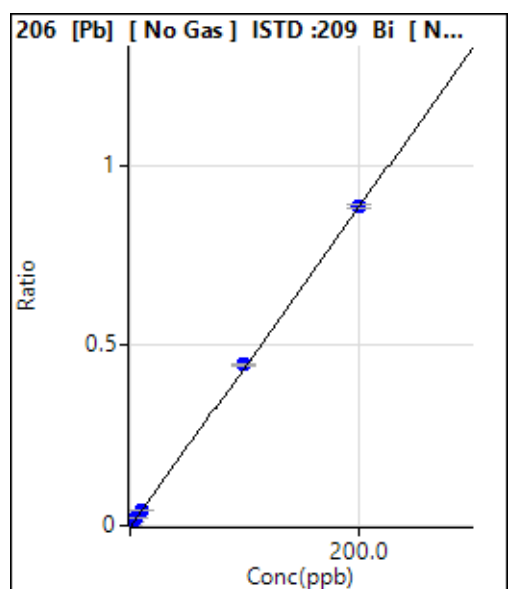
$$R = 1.0000$$

$$DL = 0.006762 \text{ ppb}$$

$$BEC = 0.003429 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	120.00	0.0001	P	25.1	
2	☐	2.000	2.053	8576.47	0.0092	P	3.1	2.6
3	☐	5.000	4.956	20617.43	0.0221	P	2.3	-0.9
4	☐	10.000	9.857	40723.72	0.0439	P	0.6	-1.4
5	☐	100.000	100.501	411637.27	0.4460	P	1.2	0.5
6	☐	200.000	199.757	809994.21	0.8863	P	1.5	-0.1

$$y = 0.0044 * x + 1.3000E-004$$

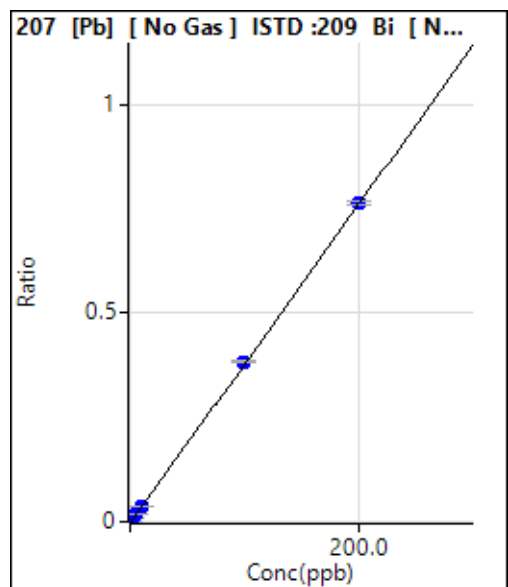
$$R = 1.0000$$

$$DL = 0.02203 \text{ ppb}$$

$$BEC = 0.0293 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	9.7	
2	☐	2.000	1.945	7005.43	0.0075	P	3.5	-2.8
3	☐	5.000	4.915	17619.34	0.0189	P	2.9	-1.7
4	☐	10.000	9.654	34384.77	0.0370	P	2.8	-3.5
5	☐	100.000	100.203	353810.04	0.3833	P	0.8	0.2
6	☐	200.000	199.918	698869.83	0.7646	P	1.6	0.0

$$y = 0.0038 * x + 1.0831E-004$$

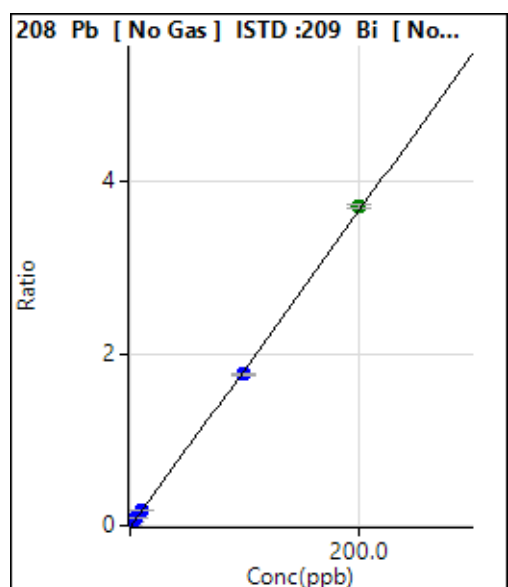
$$R = 1.0000$$

$$DL = 0.008206 \text{ ppb}$$

$$BEC = 0.02832 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	400.01	0.0004	P	13.1	
2	☐	2.000	1.961	33889.02	0.0365	P	1.2	-1.9
3	☐	5.000	4.707	81081.23	0.0870	P	1.0	-5.9
4	☐	10.000	9.258	158498.38	0.1707	P	1.4	-7.4
5	☐	100.000	95.848	1627348.73	1.7630	P	1.0	-4.2
6	☐	200.000	202.121	3397506.36	3.7173	A	0.7	1.1

$$y = 0.0184 * x + 4.3328E-004$$

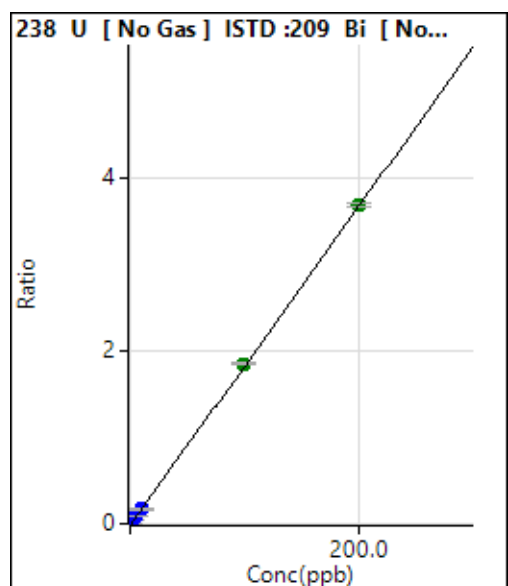
$$R = 0.9997$$

$$DL = 0.009281 \text{ ppb}$$

$$BEC = 0.02356 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.5	
2	☐	2.000	1.884	32343.29	0.0348	P	2.5	-5.8
3	☐	5.000	4.430	76328.56	0.0819	P	0.1	-11.4
4	☐	10.000	9.070	155682.21	0.1677	P	1.6	-9.3
5	☐	100.000	100.115	1707878.20	1.8503	A	1.3	0.1
6	☐	200.000	200.005	3378897.66	3.6965	A	1.4	0.0

$$y = 0.0185 * x + 1.8071E-005$$

$$R = 1.0000$$

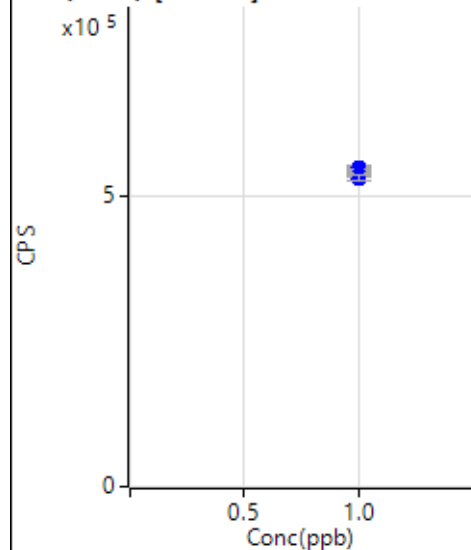
$$DL = 0.002038 \text{ ppb}$$

$$BEC = 0.0009778 \text{ ppb}$$

Weight: <None>

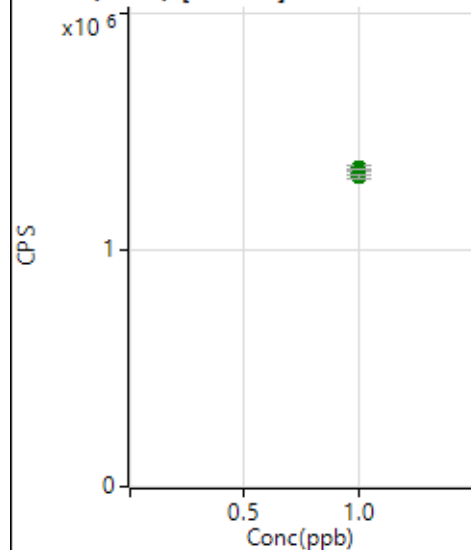
Min Conc: <None>

6 Li (ISTD) [No Gas]

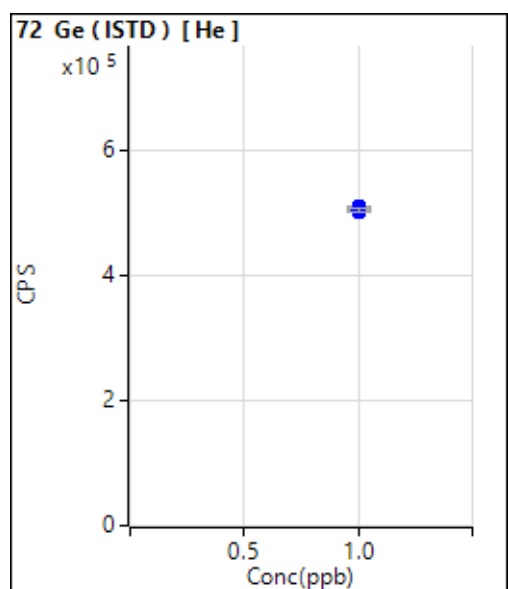


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		547647.74		P	0.7	
2	☐	1.000		550899.29		P	0.3	
3	☐	1.000		550867.94		P	0.7	
4	☐	1.000		547989.96		P	0.4	
5	☐	1.000		536527.93		P	1.2	
6	☐	1.000		532389.48		P	1.8	

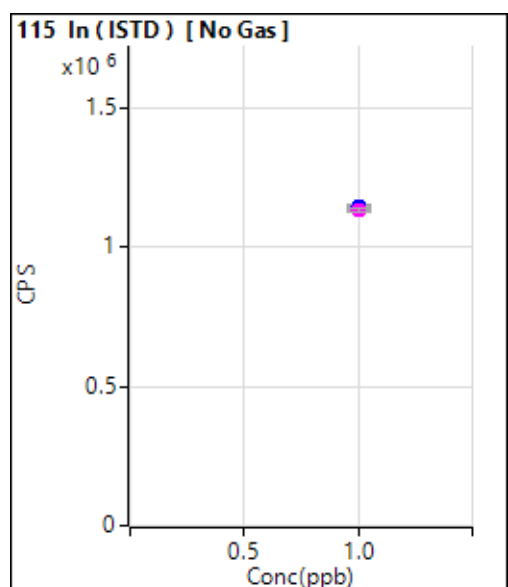
72 Ge (ISTD) [No Gas]



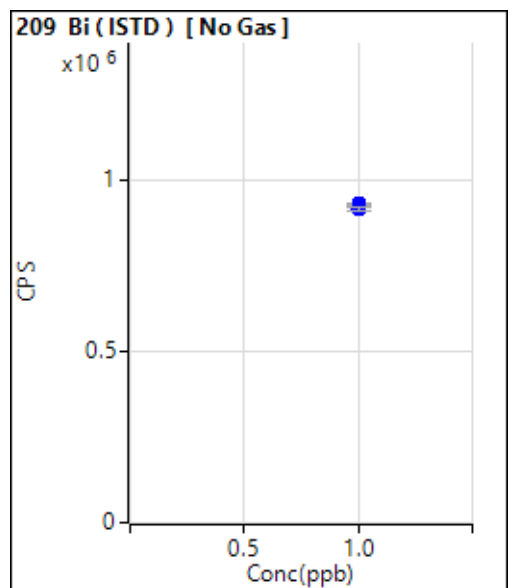
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1347492.79		A	1.8	
2	☐	1.000		1351994.51		A	1.6	
3	☐	1.000		1332261.70		A	2.3	
4	☐	1.000		1326901.80		A	0.9	
5	☐	1.000		1323377.77		A	2.5	
6	☐	1.000		1314337.95		A	1.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		503154.39		P	1.0	
2	☐	1.000		511246.20		P	0.5	
3	☐	1.000		506967.77		P	0.7	
4	☐	1.000		506035.35		P	0.9	
5	☐	1.000		509385.16		P	1.3	
6	☐	1.000		504153.28		P	1.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1132392.01		P	0.7	
2	☐	1.000		1142937.34		P	0.4	
3	☐	1.000		1146084.05		P	1.2	
4	☐	1.000		1137911.71		P	0.5	
5	☐	1.000		1133308.89		P	0.9	
6	☐	1.000		1131770.30		M	1.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		923104.13		P	0.4	
2	☐	1.000		928558.29		P	0.5	
3	☐	1.000		932153.21		P	0.6	
4	☐	1.000		928591.13		P	0.5	
5	☐	1.000		923040.17		P	0.4	
6	☐	1.000		914027.98		P	1.2	

Calibration Blank Report

Sample Table

Sample Name CAL BLK
 Data File Name 011CALB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:06:19-06:00
 Sample Type CalBlk
 Level 1
 Dilution 1
 Comment

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	31104	0.00
Be	9	1	No Gas	8	831.38
V	51	2	He	2430	0.16
Cr	52	2	He	2047	0.34
Fe	56	2	He	23173	0.01
Se	78	2	He	463	1.00
As	75	2	He	136	10.63
Ca	44	2	He	1010	0.77
Na	23	2	He	101027	0.00
Mg	24	2	He	327	3.01
K	39	2	He	113414	0.00
Mn	55	2	He	387	5.11
Co	59	2	He	63	51.90
Ni	60	2	He	97	16.35
Cu	63	2	He	1530	0.92
Zn	66	2	He	753	2.83
Al	27	2	He	697	0.24
B	11	1	No Gas	5141	0.09
Al	27	1	No Gas	18893	0.02
Si	28	1	No Gas	252885	0.00
Ag	107	1	No Gas	240	10.84
Cd	111	1	No Gas	3	5196.15
Sr	88	1	No Gas	370	2.92
Mo	95	1	No Gas	37	187.19
Sn	118	1	No Gas	800	1.09
Sb	121	1	No Gas	360	9.26
Ba	137	1	No Gas	227	7.37
Tl	205	1	No Gas	40	165.36
Tl	203	1	No Gas	27	81.19
Pb	208	1	No Gas	400	3.31
U	238	1	No Gas	17	415.69
Ca	43	2	He	63	100.76
Sb	121	2	He	217	6.51
Ti	47	2	He	10	1000.00
Cu	63	1	No Gas	2620	0.14

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
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Calibration Blank Report

Li	6	1	No Gas	547648	0.71
Ge	72	2	He	503154	1.03
Ge	72	1	No Gas	1347493	1.78
In	115	1	No Gas	1132392	0.68

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	923104	0.39



Calibration Standard Report

Sample Table

Sample Name 2/10/200
 Data File Name 012CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:08:13-06:00
 Sample Type CalStd
 Level 2
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	3560	0.19
V	51	2	He	9391	0.02
Cr	52	2	He	9650	0.01
Fe	56	2	He	783382	0.00
Se	78	2	He	560	0.68
As	75	2	He	1455	0.05
Ca	44	2	He	6252	0.07
Na	23	2	He	237865	0.00
Mg	24	2	He	83023	0.00
K	39	2	He	215785	0.00
Mn	55	2	He	6805	0.09
Co	59	2	He	11679	0.04
Ni	60	2	He	3144	0.21
Cu	63	2	He	9944	0.02
Zn	66	2	He	3040	0.16
Al	27	2	He	1173	0.98
B	11	1	No Gas	13270	0.04
Al	27	1	No Gas	35726	0.01
Si	28	1	No Gas	288803	0.00
Ag	107	1	No Gas	15236	0.02
Cd	111	1	No Gas	2994	0.16
Sr	88	1	No Gas	28287	0.00
Mo	95	1	No Gas	5698	0.07
Sn	118	1	No Gas	9207	0.05
Sb	121	1	No Gas	13117	0.01
Ba	137	1	No Gas	4621	0.05
Tl	205	1	No Gas	23285	0.00
Tl	203	1	No Gas	9430	0.01
Pb	208	1	No Gas	33889	0.00
U	238	1	No Gas	32343	0.01
Ca	43	2	He	317	3.50
Sb	121	2	He	8473	0.04
Cu	63	1	No Gas	16006	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	550899	0.29	547648	100.59	70	120	
Ge	72	2	He	511246	0.51	503154	101.61	70	120	
Ge	72	1	No Gas	1351995	1.58	1347493	100.33	70	120	



Calibration Standard Report

In	115	1	No Gas	1142937	0.35	1132392	100.93	70	120	
Bi	209	1	No Gas	928558	0.49	923104	100.59	70	120	



Calibration Standard Report

Sample Table

Sample Name 5/25/500
 Data File Name 013CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:10:07-06:00
 Sample Type CalStd
 Level 3
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	8839	0.02
V	51	2	He	18958	0.01
Cr	52	2	He	20743	0.01
Fe	56	2	He	1819522	0.00
Se	78	2	He	740	0.70
As	75	2	He	3097	0.17
Ca	44	2	He	12936	0.02
Na	23	2	He	423409	0.00
Mg	24	2	He	193071	0.00
K	39	2	He	355581	0.00
Mn	55	2	He	15442	0.03
Co	59	2	He	27879	0.00
Ni	60	2	He	7339	0.06
Cu	63	2	He	19841	0.03
Zn	66	2	He	4974	0.09
Al	27	2	He	1897	0.42
B	11	1	No Gas	25092	0.01
Al	27	1	No Gas	54203	0.00
Si	28	1	No Gas	332819	0.00
Ag	107	1	No Gas	36969	0.00
Cd	111	1	No Gas	7159	0.01
Sr	88	1	No Gas	66345	0.00
Mo	95	1	No Gas	13270	0.03
Sn	118	1	No Gas	21341	0.01
Sb	121	1	No Gas	30158	0.01
Ba	137	1	No Gas	10655	0.03
Tl	205	1	No Gas	54386	0.00
Tl	203	1	No Gas	22694	0.01
Pb	208	1	No Gas	81081	0.00
U	238	1	No Gas	76329	0.00
Ca	43	2	He	733	1.42
Sb	121	2	He	20627	0.01
Cu	63	1	No Gas	32212	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	550868	0.68	547648	100.59	70	120	
Ge	72	2	He	506968	0.69	503154	100.76	70	120	
Ge	72	1	No Gas	1332262	2.31	1347493	98.87	70	120	



Calibration Standard Report

In	115	1	No Gas	1146084	1.19	1132392	101.21	70	120	
Bi	209	1	No Gas	932153	0.59	923104	100.98	70	120	



Calibration Standard Report

Sample Table

Sample Name 10/50/100
 Data File Name 014CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:12:01-06:00
 Sample Type CalStd
 Level 4
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	17998	0.00
V	51	2	He	35949	0.00
Cr	52	2	He	40286	0.00
Fe	56	2	He	3524659	0.00
Se	78	2	He	987	0.24
As	75	2	He	6060	0.01
Ca	44	2	He	25167	0.01
Na	23	2	He	750566	0.00
Mg	24	2	He	389928	0.00
K	39	2	He	604003	0.00
Mn	55	2	He	29886	0.01
Co	59	2	He	54978	0.00
Ni	60	2	He	13951	0.01
Cu	63	2	He	38054	0.00
Zn	66	2	He	8660	0.05
Al	27	2	He	2884	0.16
B	11	1	No Gas	45885	0.01
Al	27	1	No Gas	87270	0.00
Si	28	1	No Gas	416086	0.00
Ag	107	1	No Gas	73002	0.00
Cd	111	1	No Gas	14715	0.03
Sr	88	1	No Gas	132877	0.00
Mo	95	1	No Gas	27208	0.00
Sn	118	1	No Gas	42349	0.01
Sb	121	1	No Gas	59803	0.01
Ba	137	1	No Gas	20603	0.01
Tl	205	1	No Gas	111524	0.00
Tl	203	1	No Gas	46413	0.00
Pb	208	1	No Gas	158498	0.00
U	238	1	No Gas	155682	0.00
Ca	43	2	He	1460	0.87
Sb	121	2	He	41516	0.00
Cu	63	1	No Gas	61660	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	547990	0.36	547648	100.06	70	120	
Ge	72	2	He	506035	0.92	503154	100.57	70	120	
Ge	72	1	No Gas	1326902	0.93	1347493	98.47	70	120	



Calibration Standard Report

In	115	1	No Gas	1137912	0.47	1132392	100.49	70	120	
Bi	209	1	No Gas	928591	0.47	923104	100.59	70	120	



Calibration Standard Report

Sample Table

Sample Name 100/500/10K
 Data File Name 015CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:13:55-06:00
 Sample Type CalStd
 Level 5
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	178764	0.00
V	51	2	He	340590	0.00
Cr	52	2	He	382904	0.00
Fe	56	2	He	34321280	0.00
Se	78	2	He	6404	0.05
As	75	2	He	61180	0.00
Ca	44	2	He	248931	0.00
Na	23	2	He	6325838	0.00
Mg	24	2	He	3814351	0.00
K	39	2	He	4829149	0.00
Mn	55	2	He	299793	0.00
Co	59	2	He	561311	0.00
Ni	60	2	He	142178	0.00
Cu	63	2	He	380629	0.00
Zn	66	2	He	80934	0.00
Al	27	2	He	25026	0.01
B	11	1	No Gas	416414	0.00
Al	27	1	No Gas	725365	0.00
Si	28	1	No Gas	1881129	0.00
Ag	107	1	No Gas	741819	0.00
Cd	111	1	No Gas	146657	0.00
Sr	88	1	No Gas	1372928	0.00
Mo	95	1	No Gas	276341	0.00
Sn	118	1	No Gas	421376	0.00
Sb	121	1	No Gas	605592	0.00
Ba	137	1	No Gas	214941	0.00
Tl	205	1	No Gas	1165430	0.00
Tl	203	1	No Gas	483680	0.00
Pb	208	1	No Gas	1627349	0.00
U	238	1	No Gas	1707878	0.00
Ca	43	2	He	14515	0.01
Sb	121	2	He	416133	0.00
Cu	63	1	No Gas	599755	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	536528	1.21	547648	97.97	70	120	
Ge	72	2	He	509385	1.31	503154	101.24	70	120	
Ge	72	1	No Gas	1323378	2.54	1347493	98.21	70	120	



Calibration Standard Report

In	115	1	No Gas	1133309	0.85	1132392	100.08	70	120	
Bi	209	1	No Gas	923040	0.37	923104	99.99	70	120	

Calibration Standard Report

Sample Table

Sample Name 200/1000/20K
 Data File Name 016CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:15:47-06:00
 Sample Type CalStd
 Level 6
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	350337	0.00
V	51	2	He	675228	0.00
Cr	52	2	He	755225	0.00
Fe	56	2	He	67754672	0.00
Se	78	2	He	12038	0.01
As	75	2	He	119666	0.00
Ca	44	2	He	493068	0.00
Na	23	2	He	12387284	0.00
Mg	24	2	He	7473374	0.00
K	39	2	He	9423843	0.00
Mn	55	2	He	588911	0.00
Co	59	2	He	1076189	0.00
Ni	60	2	He	278240	0.00
Cu	63	2	He	746230	0.00
Zn	66	2	He	154048	0.00
Al	27	2	He	48157	0.00
B	11	1	No Gas	810066	0.00
Al	27	1	No Gas	1334208	0.00
Si	28	1	No Gas	3314843	0.00
Ag	107	1	No Gas	1537312	0.00
Cd	111	1	No Gas	289376	0.00
Sr	88	1	No Gas	2708755	0.00
Mo	95	1	No Gas	547849	0.00
Sn	118	1	No Gas	841802	0.00
Sb	121	1	No Gas	1237982	0.00
Ba	137	1	No Gas	417401	0.00
Tl	205	1	No Gas	2464196	0.00
Tl	203	1	No Gas	954065	0.00
Pb	208	1	No Gas	3397506	0.00
U	238	1	No Gas	3378898	0.00
Ca	43	2	He	28874	0.00
Sb	121	2	He	817839	0.00
Cu	63	1	No Gas	1217165	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	532389	1.82	547648	97.21	70	120	
Ge	72	2	He	504153	1.10	503154	100.20	70	120	
Ge	72	1	No Gas	1314338	1.15	1347493	97.54	70	120	



Calibration Standard Report

In	115	1	No Gas	1131770	1.61	1132392	99.95	70	120	
Bi	209	1	No Gas	914028	1.24	923104	99.02	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name ICV
 Data File Name 019_ICV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:21:23-06:00
 Sample Type ICV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Pass
 ISTD Pass/Fail Pass

QC Analyte Table

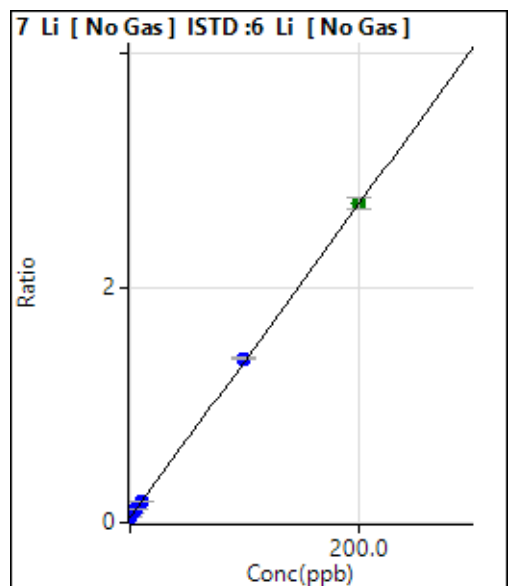
Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.849	4.311	776179	3.72	100	100.8	90	110	
Be	9	1	No Gas	98.090	0.472	178916	0.79	100	98.1	90	110	
V	51	2	He	96.875	0.688	343676	0.37	100	96.9	90	110	
Cr	52	2	He	96.893	0.866	384570	0.57	100	96.9	90	110	
Fe	56	2	He	9509.978	1.426	33790453	1.04	10000	95.1	90	110	
Se	78	2	He	96.840	1.741	6375	1.18	100	96.8	90	110	
As	75	2	He	101.723	0.361	63986	0.30	100	101.7	90	110	
Ca	44	2	He	9554.129	1.327	247227	1.21	10000	95.5	90	110	
Na	23	2	He	9465.967	0.858	6203411	0.38	10000	94.7	90	110	
Mg	24	2	He	9684.614	0.513	3800420	0.42	10000	96.8	90	110	
K	39	2	He	9584.775	2.179	4796950	1.85	10000	95.8	90	110	
Mn	55	2	He	97.248	1.406	300685	1.06	100	97.2	90	110	
Co	59	2	He	99.162	1.551	562675	1.08	100	99.2	90	110	
Ni	60	2	He	98.121	1.015	143411	0.54	100	98.1	90	110	
Cu	63	2	He	97.026	1.568	380712	1.16	100	97.0	90	110	
Zn	66	2	He	99.394	1.174	81199	1.27	100	99.4	90	110	
Al	27	2	He	98.535	0.952	25297	0.86	100	98.5	90	110	
B	11	1	No Gas	490.942	2.225	416774	2.65	500	98.2	90	110	
Al	27	1	No Gas	97.328	1.094	703851	0.46	100	97.3	90	110	
Si	28	1	No Gas	503.427	2.482	1907696	1.65	500	100.7	90	110	
Ag	107	1	No Gas	94.482	0.418	742323	1.09	100	94.5	90	110	
Cd	111	1	No Gas	98.914	0.706	147710	0.50	100	98.9	90	110	
Sr	88	1	No Gas	99.659	1.521	1393241	0.88	100	99.7	90	110	
Mo	95	1	No Gas	96.542	0.710	272701	1.15	100	96.5	90	110	
Sn	118	1	No Gas	99.423	0.464	431131	0.70	100	99.4	90	110	
Sb	121	1	No Gas	94.690	1.177	614654	0.96	100	94.7	90	110	
Ba	137	1	No Gas	99.880	0.301	215936	0.65	100	99.9	90	110	
Tl	205	1	No Gas	96.154	0.455	1214840	0.35	100	96.2	90	110	
Tl	203	1	No Gas	102.061	0.513	506125	1.06	100	102.1	90	110	
Pb	208	1	No Gas	93.210	0.517	1627653	0.84	100	93.2	90	110	
U	238	1	No Gas	98.414	2.102	1726736	2.18	100	98.4	90	110	
Ca	43	2	He	9756.498	4.415	14771	4.35	10000	97.6	90	110	
Sb	121	2	He	97.774	1.329	419653	0.94	100	97.8	90	110	
Ti	47	2	He	99.014	1.304	13964	1.04	100	99.0	90	110	
Cu	63	1	No Gas	94.684	1.619	606098	0.81	100	94.7	90	110	
Se	82	1	No Gas	97.034	0.922	9006	0.06	100	97.0	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	552822	0.46	547648	100.94	70	120	
Ge	72	2	He	528262	0.47	503154	104.99	70	120	
Ge	72	1	No Gas	1385856	0.86	1347493	102.85	70	120	
In	115	1	No Gas	1165218	0.95	1132392	102.90	70	120	
Bi	209	1	No Gas	949345	0.65	923104	102.84	70	120	

Batch Folder: D:\Agilent\ICPMH\1\DATA\012423D.b\
Analysis File: 012423D.batch.bin
DA Date-Time: 01/24/2023 19:36:14
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	011CALB.d	CAL BLK	01/24/2023 14:06:19
2	012CALS.d	2/10/200	01/24/2023 14:08:13
3	013CALS.d	5/25/500	01/24/2023 14:10:07
4	014CALS.d	10/50/100	01/24/2023 14:12:01
5	015CALS.d	100/500/10K	01/24/2023 14:13:55
6	016CALS.d	200/1000/20K	01/24/2023 14:15:47



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	31104.43	0.0568	P	1.1	
2	☐	2.000	2.046	46344.58	0.0841	P	2.3	2.3
3	☐	5.000	4.830	66840.23	0.1213	P	1.2	-3.4
4	☐	10.000	9.774	102684.64	0.1874	P	0.2	-2.3
5	☐	100.000	100.745	752594.42	1.4028	P	0.8	0.7
6	☐	200.000	199.643	1449657.63	2.7241	A	3.9	-0.2

$$y = 0.0134 * x + 0.0568$$

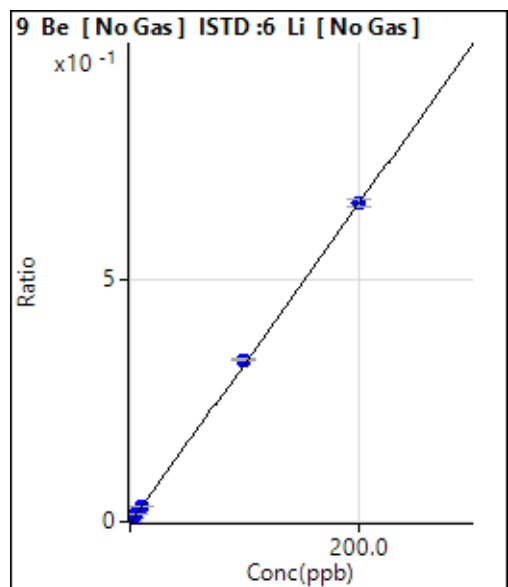
$$R = 1.0000$$

$$DL = 0.1385 \text{ ppb}$$

$$BEC = 4.251 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8.33	0.0000	P	68.9	
2	☐	2.000	1.954	3560.48	0.0065	P	6.5	-2.3
3	☐	5.000	4.860	8839.49	0.0160	P	2.0	-2.8
4	☐	10.000	9.950	17998.29	0.0328	P	0.7	-0.5
5	☐	100.000	100.994	178763.92	0.3332	P	1.2	1.0
6	☐	200.000	199.510	350337.32	0.6582	P	2.5	-0.2

$$y = 0.0033 * x + 1.5192E-005$$

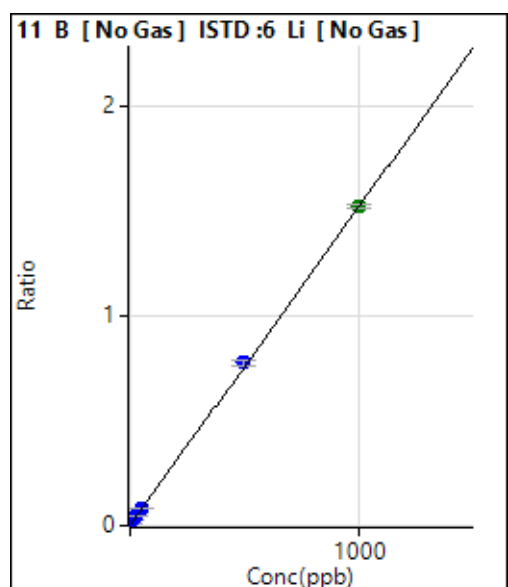
$$R = 1.0000$$

$$DL = 0.009516 \text{ ppb}$$

$$BEC = 0.004605 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5140.98	0.0094	P	4.8	
2	☐	10.000	9.693	13269.70	0.0241	P	5.0	-3.1
3	☐	25.000	23.848	25092.48	0.0456	P	1.4	-4.6
4	☐	50.000	49.028	45885.01	0.0837	P	2.6	-1.9
5	☐	500.000	505.613	416414.24	0.7761	P	3.0	1.1
6	☐	1000.000	997.274	810065.72	1.5217	A	0.7	-0.3

$$y = 0.0015 * x + 0.0094$$

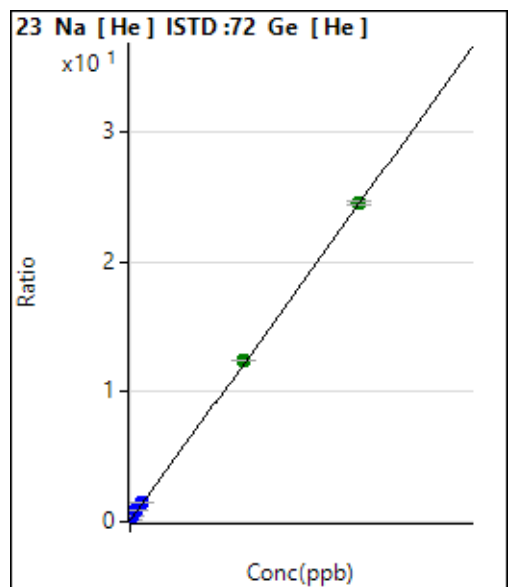
$$R = 1.0000$$

$$DL = 0.8907 \text{ ppb}$$

$$BEC = 6.191 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101027.18	0.2008	P	0.3	
2	☐	200.000	216.903	237864.85	0.4653	P	0.5	8.5
3	☐	500.000	520.274	423408.73	0.8352	P	0.4	4.1
4	☐	1000.000	1051.794	750565.64	1.4833	P	1.0	5.2
5	☐	10000.00	10020.17	6325838.45	12.4192	A	0.8	0.2
6	☐	20000.00	19986.64	12387284.4	24.5720	A	0.9	-0.1

$$y = 0.0012 * x + 0.2008$$

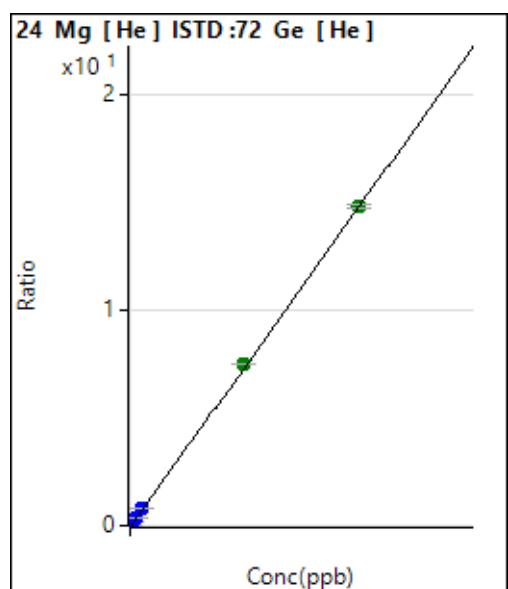
$$R = 1.0000$$

$$DL = 1.686 \text{ ppb}$$

$$BEC = 164.7 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0006	P	9.6	
2	☐	200.000	217.755	83023.37	0.1624	P	0.5	8.9
3	☐	500.000	511.849	193071.45	0.3808	P	0.5	2.4
4	☐	1000.000	1036.521	389928.35	0.7706	P	1.0	3.7
5	☐	10000.00	10080.56	3814350.88	7.4884	A	0.5	0.8
6	☐	20000.00	19957.41	7473373.84	14.8248	A	1.1	-0.2

$$y = 7.4279E-004 * x + 6.4920E-004$$

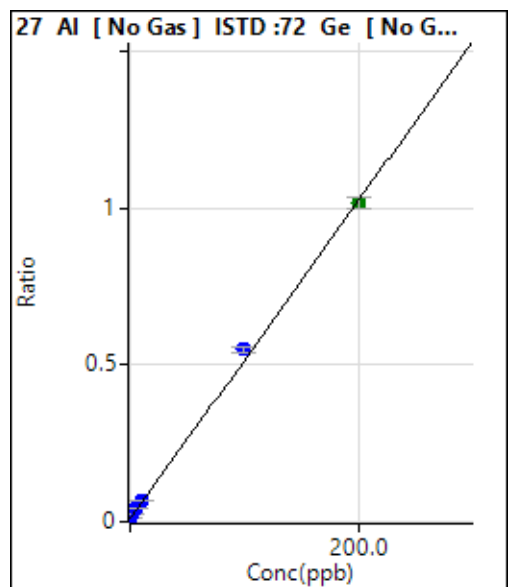
$$R = 1.0000$$

$$DL = 0.2529 \text{ ppb}$$

$$BEC = 0.874 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18893.14	0.0140	P	3.7	
2	☐	2.000	2.445	35726.35	0.0264	P	3.1	22.3
3	☐	5.000	5.257	54203.31	0.0407	P	2.5	5.1
4	☐	10.000	10.198	87270.42	0.0658	P	2.1	2.0
5	☐	100.000	105.292	725364.81	0.5483	P	2.6	5.3
6	☐	200.000	197.333	1334208.47	1.0154	A	3.5	-1.3

$$y = 0.0051 * x + 0.0140$$

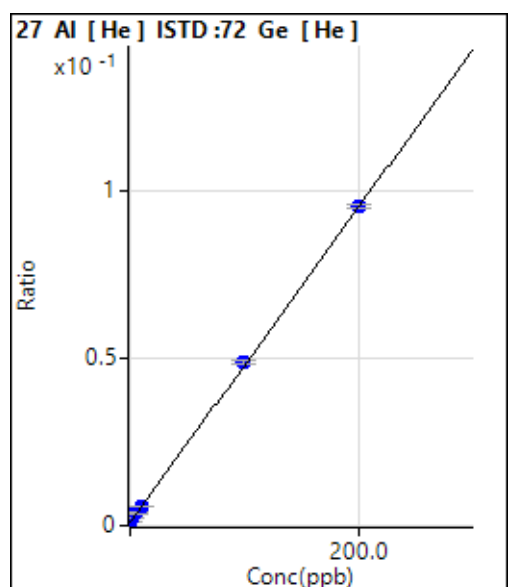
$$R = 0.9995$$

$$DL = 0.3059 \text{ ppb}$$

$$BEC = 2.764 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	696.69	0.0014	P	2.0	
2	☐	2.000	1.930	1173.40	0.0023	P	11.6	-3.5
3	☐	5.000	4.994	1896.83	0.0037	P	8.0	-0.1
4	☐	10.000	9.140	2883.68	0.0057	P	4.5	-8.6
5	☐	100.000	101.167	25026.04	0.0491	P	2.4	1.2
6	☐	200.000	199.460	48156.97	0.0955	P	0.9	-0.3

$$y = 4.7194\text{E-}004 * x + 0.0014$$

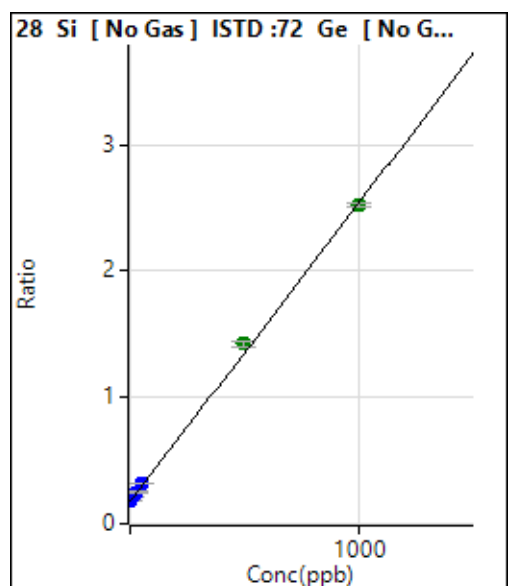
$$R = 1.0000$$

$$DL = 0.1775 \text{ ppb}$$

$$BEC = 2.934 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	252884.69	0.1877	P	0.7	
2	☐	10.000	10.993	288803.26	0.2136	P	1.9	9.9
3	☐	25.000	26.339	332818.71	0.2499	P	2.3	5.4
4	☐	50.000	53.313	416085.50	0.3136	P	1.2	6.6
5	☐	500.000	522.670	1881129.09	1.4221	A	2.8	4.5
6	☐	1000.000	988.456	3314842.55	2.5222	A	1.7	-1.2

$$y = 0.0024 * x + 0.1877$$

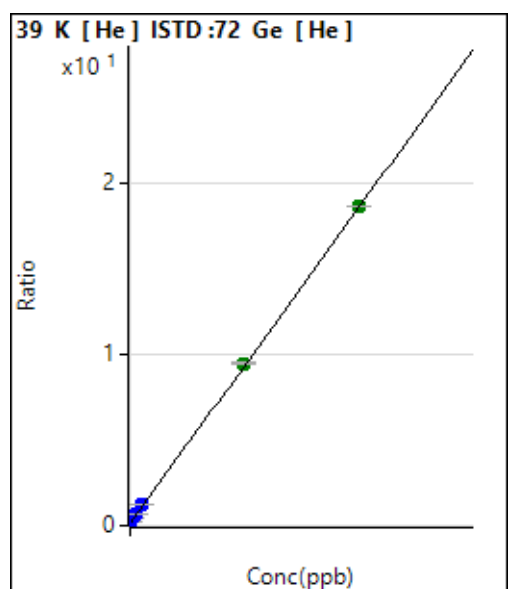
$$R = 0.9996$$

$$DL = 1.628 \text{ ppb}$$

$$BEC = 79.47 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113414.31	0.2254	P	2.1	
2	☐	200.000	212.846	215784.80	0.4221	P	0.9	6.4
3	☐	500.000	515.152	355581.01	0.7014	P	0.3	3.0
4	☐	1000.000	1047.945	604002.63	1.1937	P	0.8	4.8
5	☐	10000.00	10017.69	4829149.31	9.4810	A	1.2	0.2
6	☐	20000.00	19988.25	9423842.57	18.6930	A	0.5	-0.1

$$y = 9.2392\text{E-}004 * x + 0.2254$$

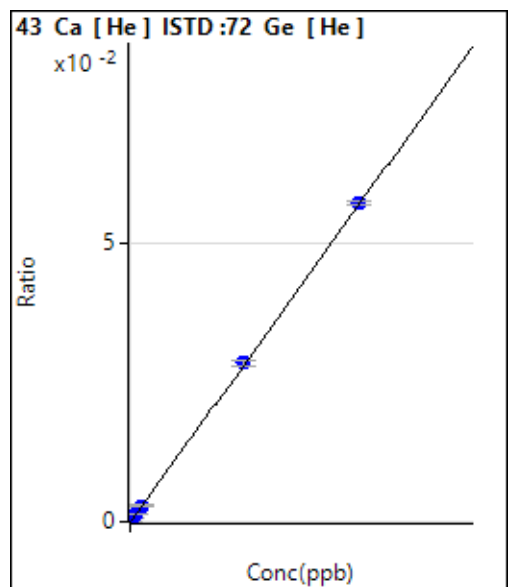
$$R = 1.0000$$

DL = 15.02 ppb

BEC = 244 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	64.7	
2	☐	200.000	172.748	316.68	0.0006	P	10.6	-13.6
3	☐	500.000	462.516	733.37	0.0014	P	9.8	-7.5
4	☐	1000.000	966.680	1460.11	0.0029	P	12.3	-3.3
5	☐	10000.00	9945.147	14514.66	0.0285	P	3.1	-0.5
6	☐	20000.00	20030.30	28873.84	0.0573	P	1.1	0.2

$$y = 2.8531\text{E-}006 * x + 1.2633\text{E-}004$$

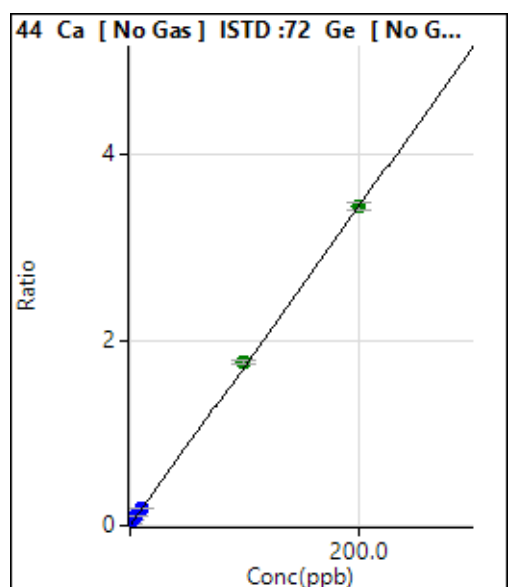
$$R = 1.0000$$

DL = 86 ppb

BEC = 44.28 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26672.93	0.0198	P	2.1	
2	☐	2.000	2.114	75875.20	0.0561	P	1.4	5.7
3	☐	5.000	5.017	141208.95	0.1060	P	2.4	0.3
4	☐	10.000	10.158	257908.17	0.1944	P	1.2	1.6
5	☐	100.000	101.605	2336336.16	1.7661	A	2.3	1.6
6	☐	200.000	199.188	4525142.74	3.4433	A	2.2	-0.4

$$y = 0.0172 * x + 0.0198$$

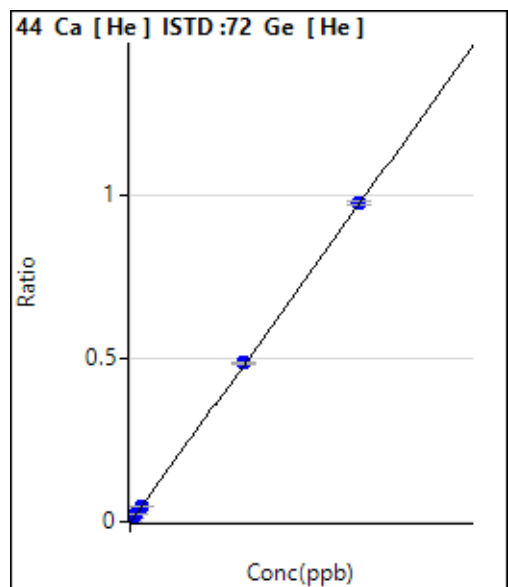
$$R = 1.0000$$

$$DL = 0.07133 \text{ ppb}$$

$$BEC = 1.152 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010.06	0.0020	P	7.7	
2	☐	200.000	209.584	6251.54	0.0122	P	4.7	4.8
3	☐	500.000	482.069	12936.31	0.0255	P	3.5	-3.6
4	☐	1000.000	978.472	25166.59	0.0497	P	0.6	-2.2
5	☐	10000.00	9979.116	248931.21	0.4887	P	1.2	-0.2
6	☐	20000.00	20011.87	493067.73	0.9781	P	1.2	0.1

$$y = 4.8775E-005 * x + 0.0020$$

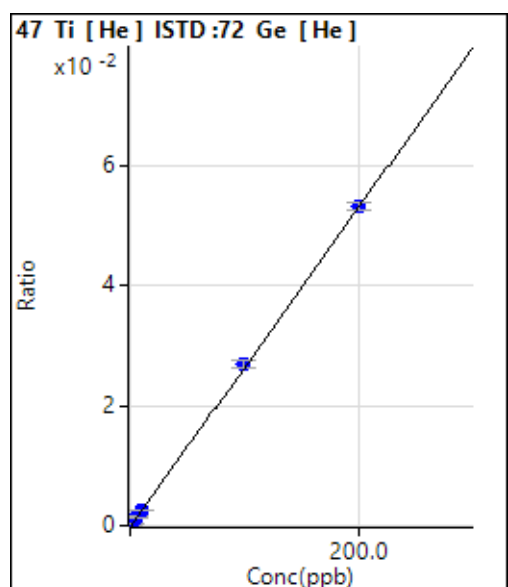
$$R = 1.0000$$

$$DL = 9.455 \text{ ppb}$$

$$BEC = 41.16 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	99.6	
2	☐	2.000	1.661	236.68	0.0005	P	6.0	-17.0
3	☐	5.000	5.325	730.04	0.0014	P	9.4	6.5
4	☐	10.000	9.409	1280.09	0.0025	P	9.6	-5.9
5	☐	100.000	100.767	13700.39	0.0269	P	4.9	0.8
6	☐	200.000	199.642	26863.42	0.0533	P	2.8	-0.2

$$y = 2.6678E-004 * x + 1.9740E-005$$

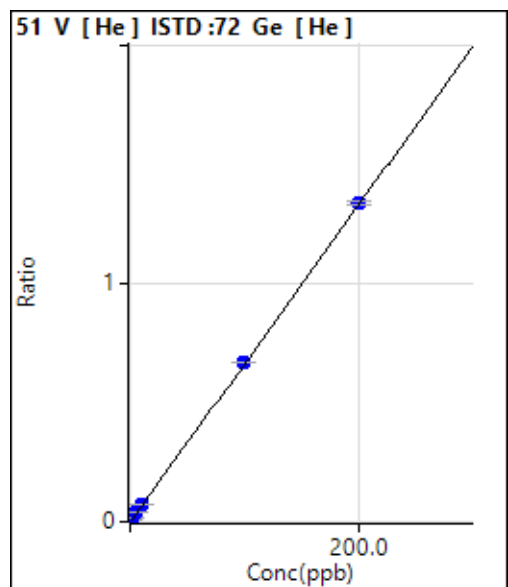
$$R = 1.0000$$

$$DL = 0.2211 \text{ ppb}$$

$$BEC = 0.07399 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2430.23	0.0048	P	3.5	
2	☐	2.000	2.031	9391.03	0.0184	P	2.1	1.6
3	☐	5.000	4.885	18957.62	0.0374	P	2.5	-2.3
4	☐	10.000	9.933	35949.27	0.0710	P	0.6	-0.7
5	☐	100.000	99.588	340589.51	0.6687	P	0.9	-0.4
6	☐	200.000	200.212	675227.80	1.3394	P	1.0	0.1

$$y = 0.0067 * x + 0.0048$$

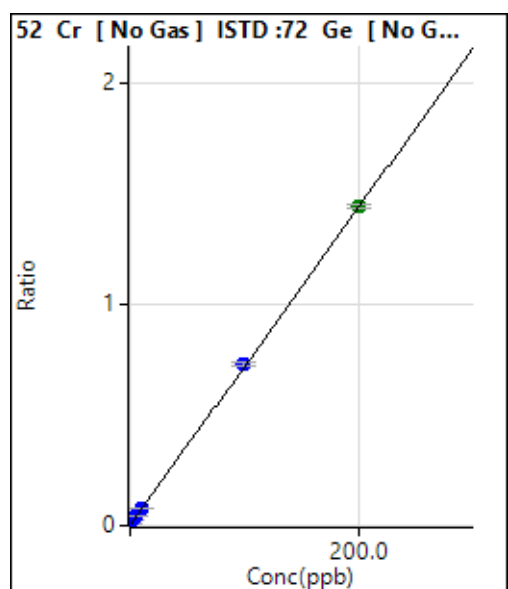
$$R = 1.0000$$

$$DL = 0.07567 \text{ ppb}$$

$$BEC = 0.7246 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12552.63	0.0093	P	2.0	
2	☐	2.000	2.062	32579.22	0.0241	P	3.5	3.1
3	☐	5.000	4.811	58374.54	0.0438	P	0.9	-3.8
4	☐	10.000	10.115	108619.23	0.0819	P	1.1	1.2
5	☐	100.000	100.872	969396.60	0.7328	P	2.4	0.9
6	☐	200.000	199.562	1893367.73	1.4407	A	1.4	-0.2

$$y = 0.0072 * x + 0.0093$$

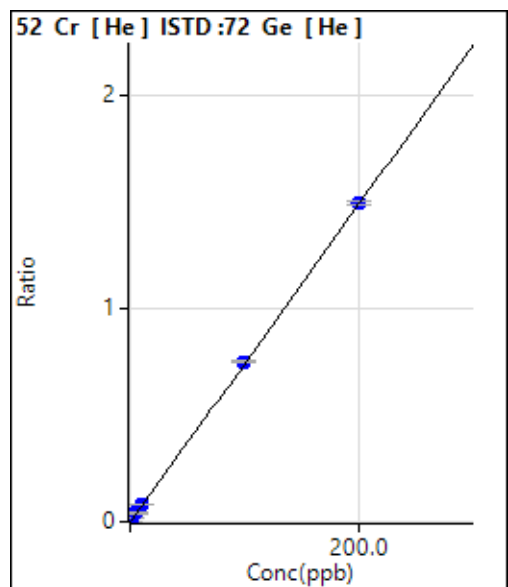
$$R = 1.0000$$

$$DL = 0.07667 \text{ ppb}$$

$$BEC = 1.299 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0041	P	7.3	
2	☐	2.000	1.982	9650.25	0.0189	P	1.6	-0.9
3	☐	5.000	4.932	20742.71	0.0409	P	1.7	-1.4
4	☐	10.000	10.111	40286.17	0.0796	P	1.1	1.1
5	☐	100.000	100.072	382903.76	0.7518	P	0.9	0.1
6	☐	200.000	199.960	755225.48	1.4981	P	0.6	0.0

$$y = 0.0075 * x + 0.0041$$

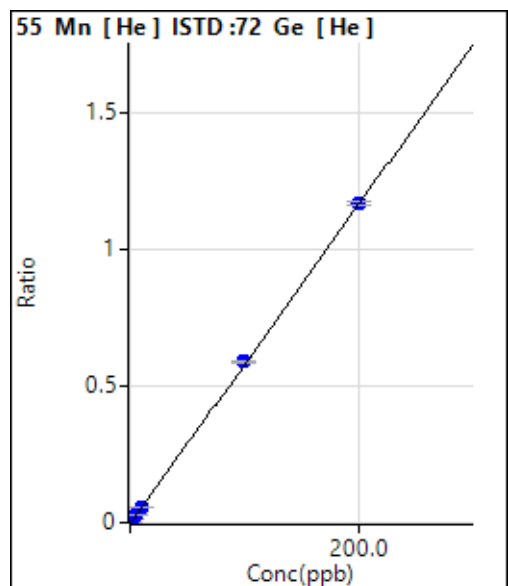
$$R = 1.0000$$

$$DL = 0.1197 \text{ ppb}$$

$$BEC = 0.5446 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	386.68	0.0008	P	20.8	
2	☐	2.000	2.146	6805.16	0.0133	P	6.1	7.3
3	☐	5.000	5.081	15442.34	0.0305	P	5.1	1.6
4	☐	10.000	9.973	29886.40	0.0591	P	2.3	-0.3
5	☐	100.000	100.561	299792.83	0.5886	P	0.8	0.6
6	☐	200.000	199.717	588910.94	1.1682	P	0.7	-0.1

$$y = 0.0058 * x + 7.6957E-004$$

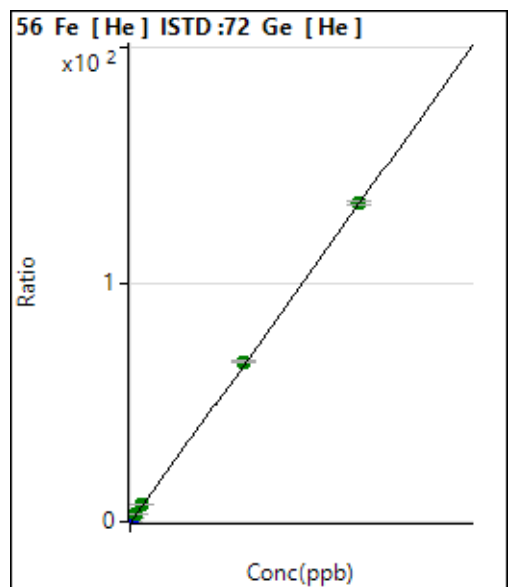
$$R = 1.0000$$

$$DL = 0.08196 \text{ ppb}$$

$$BEC = 0.1317 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23173.30	0.0461	P	0.6	
2	☐	200.000	221.121	783381.50	1.5323	P	0.5	10.6
3	☐	500.000	527.093	1819521.95	3.5889	A	1.0	5.4
4	☐	1000.000	1029.517	3524658.70	6.9660	A	1.9	3.0
5	☐	10000.00	10017.98	34321280.3	67.3824	A	0.8	0.2
6	☐	20000.00	19988.64	67754672.3	134.400	A	1.1	-0.1

$$y = 0.0067 * x + 0.0461$$

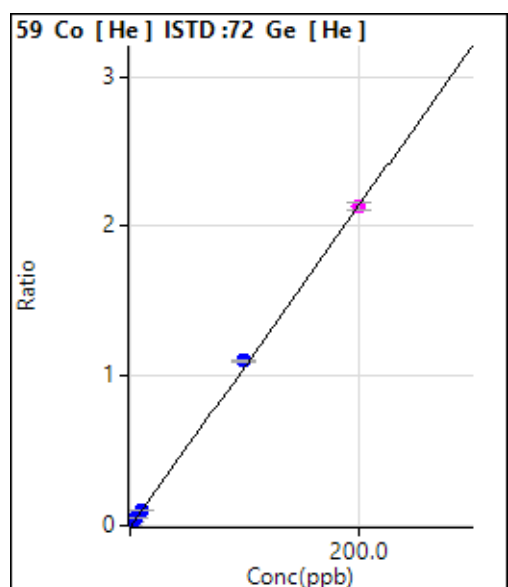
$$R = 1.0000$$

$$DL = 0.1135 \text{ ppb}$$

$$BEC = 6.852 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	32.4	
2	☐	2.000	2.115	11678.55	0.0228	P	3.6	5.7
3	☐	5.000	5.108	27878.83	0.0550	P	1.4	2.2
4	☐	10.000	10.104	54978.02	0.1086	P	0.1	1.0
5	☐	100.000	102.595	561311.49	1.1021	P	1.4	2.6
6	☐	200.000	198.694	1076189.38	2.1342	M	2.7	-0.7

$$y = 0.0107 * x + 1.2569E-004$$

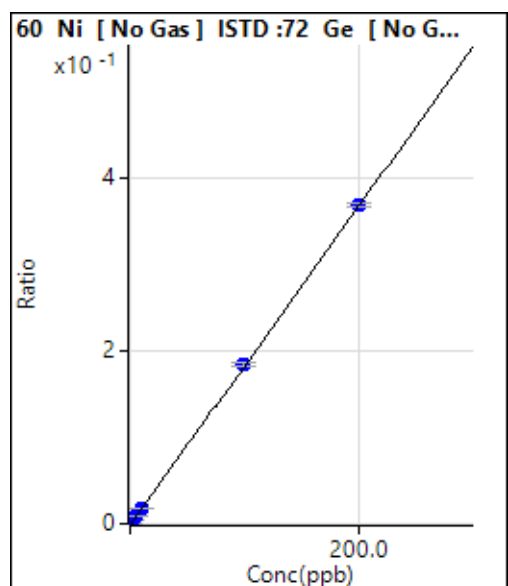
$$R = 0.9999$$

$$DL = 0.01139 \text{ ppb}$$

$$BEC = 0.0117 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	6.1	
2	☐	2.000	2.031	5317.79	0.0039	P	3.5	1.5
3	☐	5.000	4.818	12105.57	0.0091	P	6.0	-3.6
4	☐	10.000	9.871	24465.64	0.0184	P	1.0	-1.3
5	☐	100.000	100.347	245792.80	0.1858	P	2.5	0.3
6	☐	200.000	199.837	486049.50	0.3698	P	1.3	-0.1

$$y = 0.0018 * x + 1.7804E-004$$

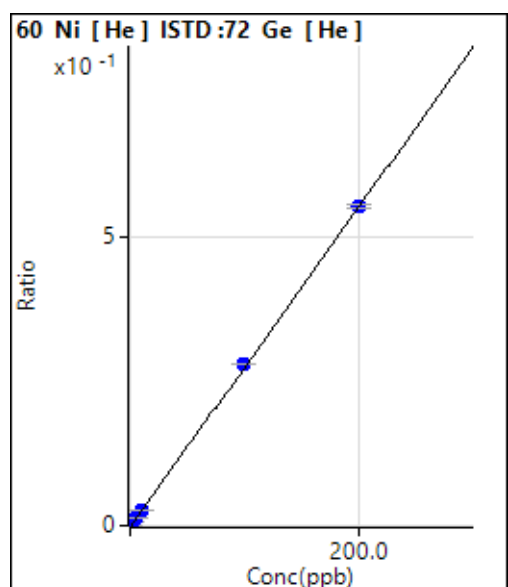
$$R = 1.0000$$

$$DL = 0.01762 \text{ ppb}$$

$$BEC = 0.09625 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0002	P	16.8	
2	☐	2.000	2.155	3143.75	0.0062	P	7.1	7.8
3	☐	5.000	5.166	7338.77	0.0145	P	4.5	3.3
4	☐	10.000	9.902	13950.71	0.0276	P	0.7	-1.0
5	☐	100.000	100.886	142177.87	0.2791	P	0.6	0.9
6	☐	200.000	199.556	278239.97	0.5519	P	1.1	-0.2

$$y = 0.0028 * x + 1.9234E-004$$

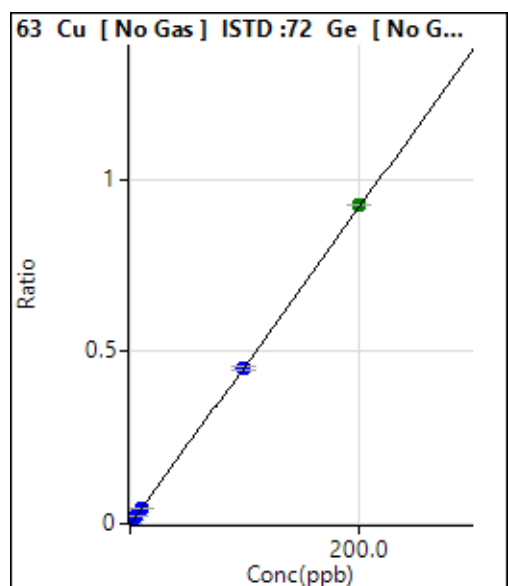
$$R = 1.0000$$

$$DL = 0.03499 \text{ ppb}$$

$$BEC = 0.06957 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2620.30	0.0019	P	5.4	
2	☐	2.000	2.151	16006.39	0.0118	P	0.9	7.6
3	☐	5.000	4.837	32211.84	0.0242	P	2.8	-3.3
4	☐	10.000	9.683	61660.37	0.0465	P	1.8	-3.2
5	☐	100.000	98.164	599755.42	0.4534	P	2.5	-1.8
6	☐	200.000	200.937	1217164.67	0.9260	A	0.6	0.5

$$y = 0.0046 * x + 0.0019$$

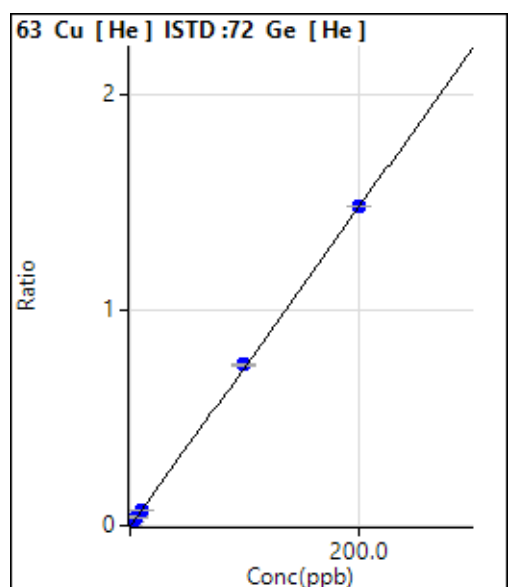
$$R = 0.9999$$

$$DL = 0.06842 \text{ ppb}$$

$$BEC = 0.4231 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1530.11	0.0030	P	15.1	
2	☐	2.000	2.218	9943.81	0.0194	P	1.3	10.9
3	☐	5.000	4.879	19841.47	0.0391	P	5.2	-2.4
4	☐	10.000	9.755	38053.67	0.0752	P	1.2	-2.4
5	☐	100.000	100.621	380628.81	0.7473	P	1.3	0.6
6	☐	200.000	199.702	746230.43	1.4802	P	0.2	-0.1

$$y = 0.0074 * x + 0.0030$$

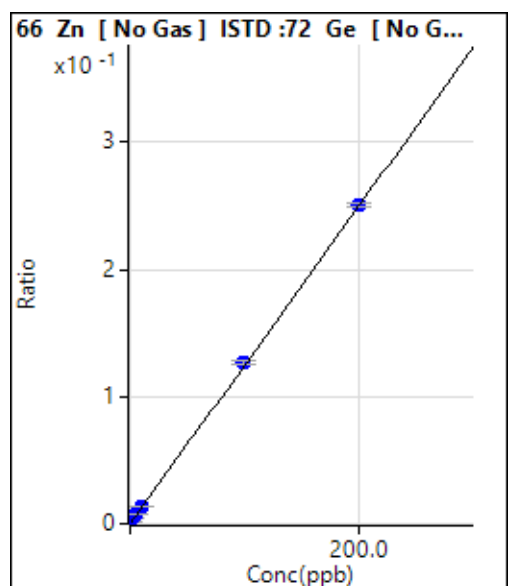
$$R = 1.0000$$

$$DL = 0.1864 \text{ ppb}$$

$$BEC = 0.4116 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1673.47	0.0012	P	4.0	
2	☐	2.000	2.635	6124.87	0.0045	P	2.5	31.7
3	☐	5.000	5.358	10560.95	0.0079	P	2.9	7.2
4	☐	10.000	9.728	17758.56	0.0134	P	4.0	-2.7
5	☐	100.000	100.357	167340.06	0.1265	P	3.0	0.4
6	☐	200.000	199.820	329448.44	0.2507	P	0.8	-0.1

$$y = 0.0012 * x + 0.0012$$

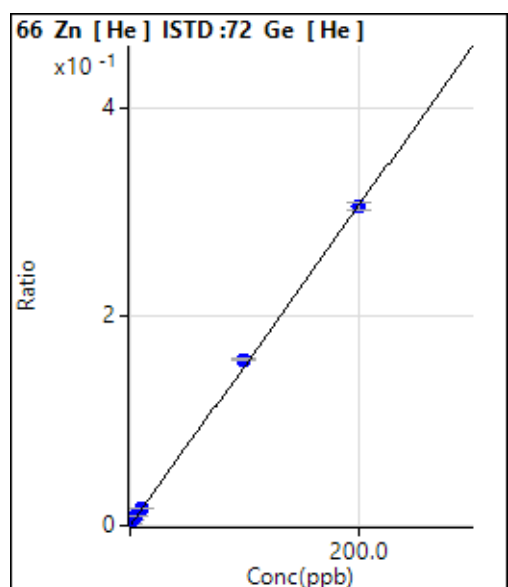
$$R = 1.0000$$

$$DL = 0.1196 \text{ ppb}$$

$$BEC = 0.9948 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	753.36	0.0015	P	20.6	
2	☐	2.000	2.907	3040.39	0.0059	P	4.9	45.3
3	☐	5.000	5.431	4974.33	0.0098	P	5.1	8.6
4	☐	10.000	10.196	8659.58	0.0171	P	4.0	2.0
5	☐	100.000	102.786	80934.13	0.1589	P	1.6	2.8
6	☐	200.000	198.577	154047.58	0.3056	P	2.0	-0.7

$$y = 0.0015 * x + 0.0015$$

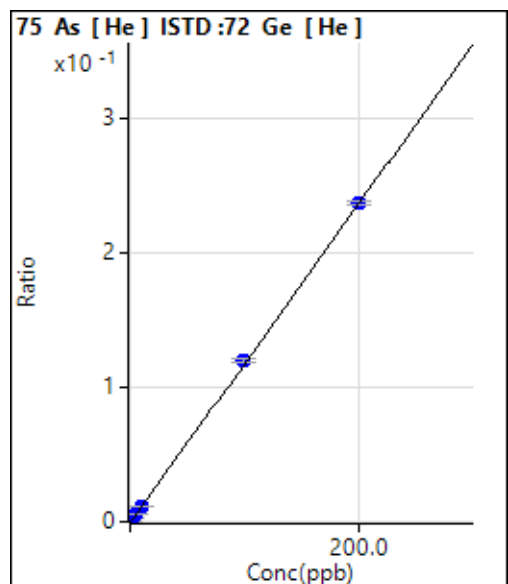
$$R = 0.9999$$

$$DL = 0.603 \text{ ppb}$$

$$BEC = 0.9769 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	135.56	0.0003	P	14.6	
2	☐	2.000	2.168	1454.53	0.0028	P	0.3	8.4
3	☐	5.000	4.915	3097.04	0.0061	P	5.4	-1.7
4	☐	10.000	9.854	6060.27	0.0120	P	1.6	-1.5
5	☐	100.000	100.875	61180.07	0.1201	P	2.0	0.9
6	☐	200.000	199.570	119665.51	0.2374	P	1.3	-0.2

$$y = 0.0012 * x + 2.6946E-004$$

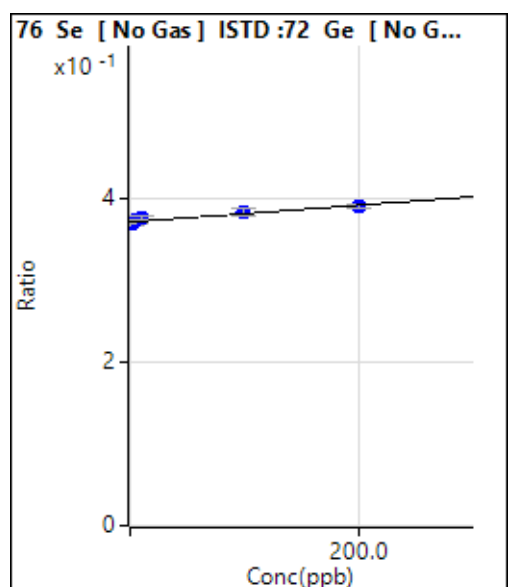
$$R = 1.0000$$

$$DL = 0.09919 \text{ ppb}$$

$$BEC = 0.2268 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	498864.16	0.3703	P	1.3	
2	☐	2.000	-9.219	499244.45	0.3693	P	1.6	-561.0
3	☐	5.000	31.939	497523.63	0.3736	P	2.4	538.8
4	☐	10.000	56.911	499087.15	0.3762	P	1.4	469.1
5	☐	100.000	122.857	506626.49	0.3830	P	2.4	22.9
6	☐	200.000	185.665	511875.65	0.3895	P	0.7	-7.2

$$y = 1.0343E-004 * x + 0.3703$$

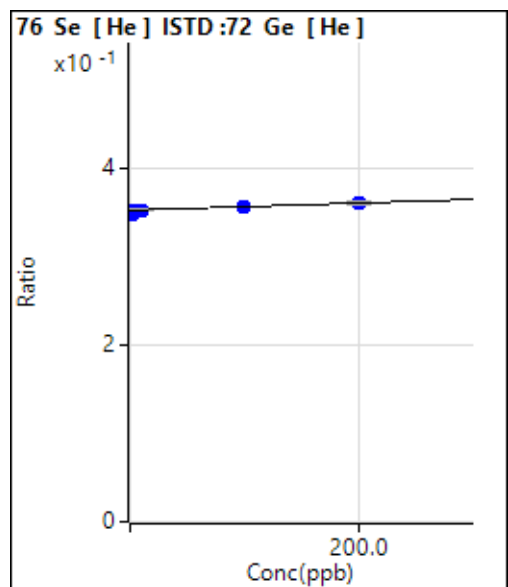
$$R = 0.9554$$

DL = 140.6 ppb

BEC = 3580 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176999.69	0.3518	P	0.9	
2	☐	2.000	-91.861	177905.39	0.3480	P	0.4	-4693.0
3	☐	5.000	11.284	178584.32	0.3523	P	0.8	125.7
4	☐	10.000	0.566	178033.06	0.3518	P	0.6	-94.3
5	☐	100.000	102.971	181368.92	0.3561	P	0.4	3.0
6	☐	200.000	199.768	181524.07	0.3601	P	1.6	-0.1

$$y = 4.1506E-005 * x + 0.3518$$

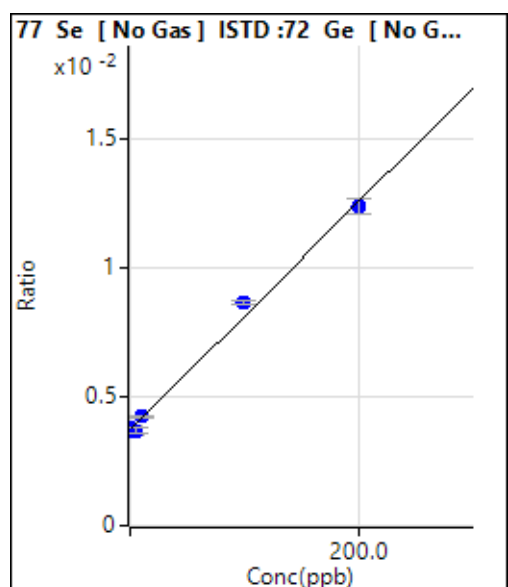
$$R = 0.9315$$

DL = 217.1 ppb

BEC = 8476 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5147.74	0.0038	P	1.6	
2	☐	2.000	-3.573	4951.00	0.0037	P	7.2	-278.6
3	☐	5.000	-2.784	4927.64	0.0037	P	5.5	-155.7
4	☐	10.000	9.381	5617.94	0.0042	P	2.2	-6.2
5	☐	100.000	110.616	11505.10	0.0087	P	1.6	10.6
6	☐	200.000	194.973	16310.12	0.0124	P	4.3	-2.5

$$y = 4.4070\text{E-}005 * x + 0.0038$$

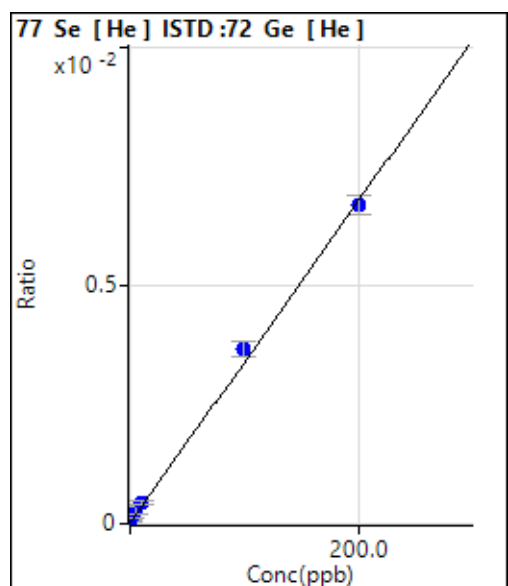
$$R = 0.9969$$

$$DL = 4.252 \text{ ppb}$$

$$BEC = 86.7 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0001	P	43.4	
2	☐	2.000	3.057	80.00	0.0002	P	32.9	52.8
3	☐	5.000	6.974	146.67	0.0003	P	51.1	39.5
4	☐	10.000	11.274	220.01	0.0004	P	15.9	12.7
5	☐	100.000	107.186	1873.50	0.0037	P	8.9	7.2
6	☐	200.000	196.284	3373.82	0.0067	P	6.2	-1.9

$$y = 3.3839\text{E-}005 * x + 5.3015\text{E-}005$$

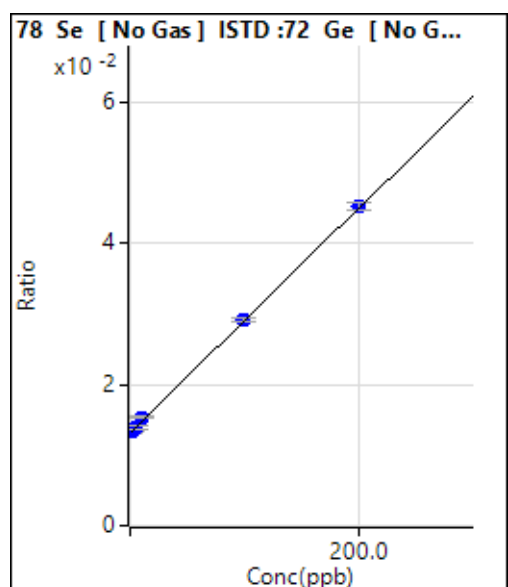
$$R = 0.9991$$

$$DL = 2.04 \text{ ppb}$$

$$BEC = 1.567 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18172.48	0.0135	P	4.2	
2	☐	2.000	-0.165	18202.56	0.0135	P	2.3	-108.3
3	☐	5.000	3.068	18613.17	0.0140	P	3.9	-38.6
4	☐	10.000	11.468	20315.63	0.0153	P	1.6	14.7
5	☐	100.000	99.087	38635.60	0.0292	P	2.2	-0.9
6	☐	200.000	200.453	59504.80	0.0453	P	1.9	0.2

$$y = 1.5857E-004 * x + 0.0135$$

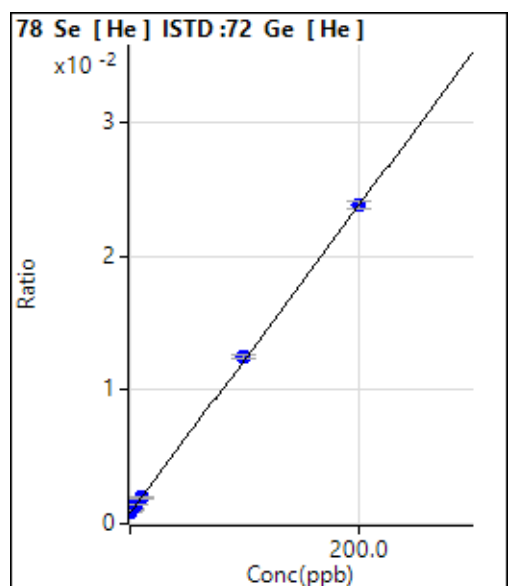
$$R = 0.9999$$

DL = 10.81 ppb

BEC = 85.09 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	463.34	0.0009	P	5.5	
2	☐	2.000	1.514	560.01	0.0011	P	4.1	-24.3
3	☐	5.000	4.677	740.02	0.0015	P	4.8	-6.5
4	☐	10.000	8.950	987.37	0.0020	P	2.7	-10.5
5	☐	100.000	101.199	6403.54	0.0126	P	2.2	1.2
6	☐	200.000	199.466	12038.06	0.0239	P	1.9	-0.3

$$y = 1.1511E-004 * x + 9.2116E-004$$

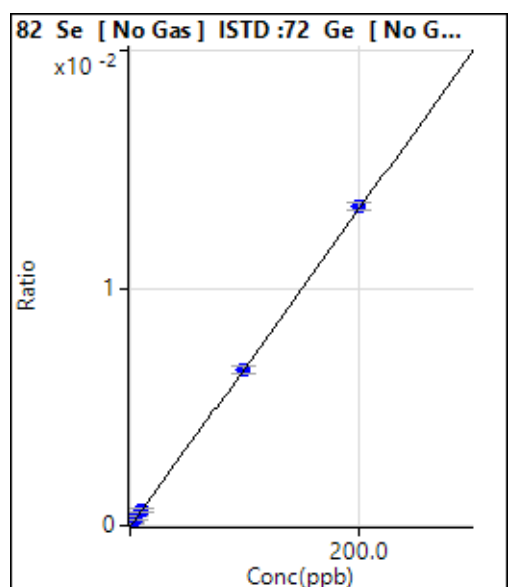
$$R = 1.0000$$

DL = 1.316 ppb

BEC = 8.003 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22.37	0.0000	P	654.	
2	☐	2.000	1.228	132.63	0.0001	P	73.7	-38.6
3	☐	5.000	4.840	449.38	0.0003	P	35.3	-3.2
4	☐	10.000	9.419	856.15	0.0006	P	21.1	-5.8
5	☐	100.000	98.007	8682.83	0.0066	P	3.9	-2.0
6	☐	200.000	201.037	17671.97	0.0134	P	2.5	0.5

$$y = 6.6815E-005 * x + 1.5742E-005$$

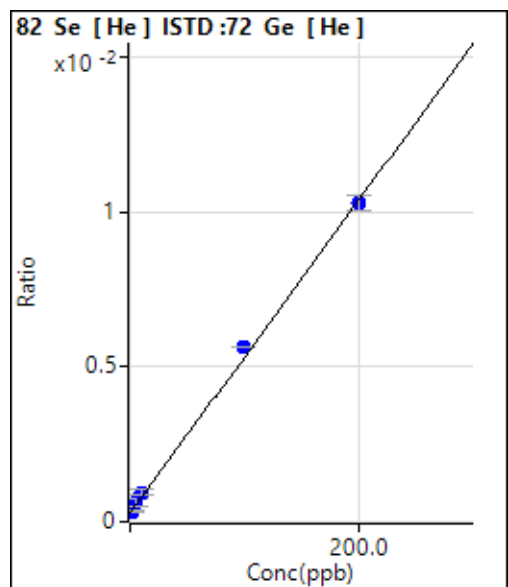
$$R = 0.9999$$

$$DL = 4.623 \text{ ppb}$$

$$BEC = 0.2356 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	21.6	
2	☐	2.000	0.155	173.33	0.0003	P	19.1	-92.3
3	☐	5.000	5.409	306.68	0.0006	P	37.8	8.2
4	☐	10.000	12.202	480.02	0.0009	P	16.5	22.0
5	☐	100.000	105.272	2880.36	0.0057	P	0.6	5.3
6	☐	200.000	197.262	5194.42	0.0103	P	4.4	-1.4

$$y = 5.0568E-005 * x + 3.3144E-004$$

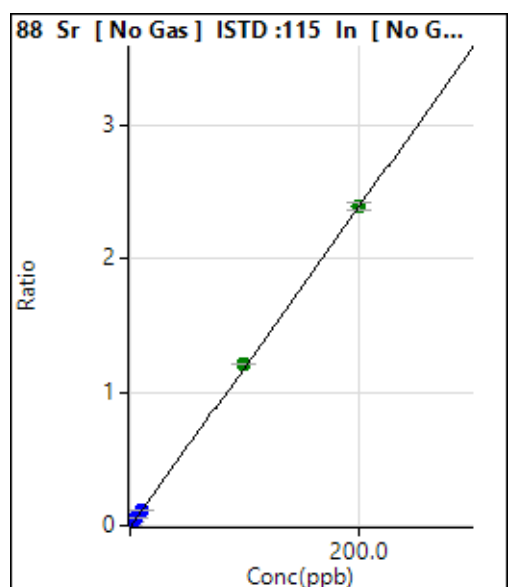
$$R = 0.9994$$

$$DL = 4.238 \text{ ppb}$$

$$BEC = 6.554 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0003	P	10.3	
2	☐	2.000	2.036	28287.01	0.0247	P	1.1	1.8
3	☐	5.000	4.799	66344.93	0.0579	P	1.1	-4.0
4	☐	10.000	9.708	132876.70	0.1168	P	0.6	-2.9
5	☐	100.000	100.958	1372928.36	1.2114	A	1.1	1.0
6	☐	200.000	199.540	2708755.17	2.3939	A	2.5	-0.2

$$y = 0.0120 * x + 3.2664E-004$$

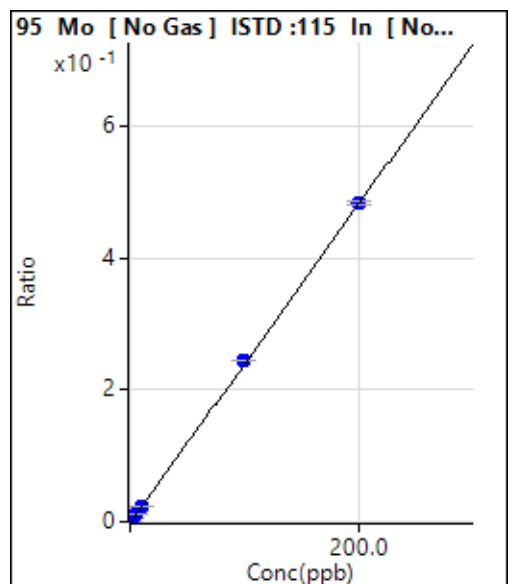
$$R = 1.0000$$

$$DL = 0.008434 \text{ ppb}$$

$$BEC = 0.02723 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0000	P	69.1	
2	☐	2.000	2.044	5697.99	0.0050	P	4.5	2.2
3	☐	5.000	4.763	13270.14	0.0116	P	3.0	-4.7
4	☐	10.000	9.852	27208.18	0.0239	P	1.3	-1.5
5	☐	100.000	100.585	276340.74	0.2438	P	0.1	0.6
6	☐	200.000	199.720	547849.20	0.4841	P	1.3	-0.1

$$y = 0.0024 * x + 3.2451E-005$$

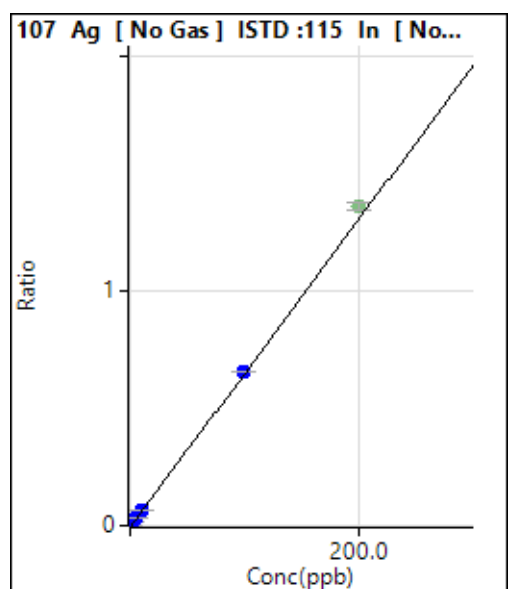
$$R = 1.0000$$

$$DL = 0.02775 \text{ ppb}$$

$$BEC = 0.01339 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	26.4	
2	☐	2.000	2.005	15235.74	0.0133	P	2.6	0.3
3	☐	5.000	4.899	36968.82	0.0323	P	2.3	-2.0
4	☐	10.000	9.775	73001.98	0.0642	P	1.0	-2.3
5	☐	100.000	100.027	741818.82	0.6546	P	0.4	0.0
6	☒	200.000		1537311.64	1.3584	A	2.3	

$$y = 0.0065 * x + 2.1210E-004$$

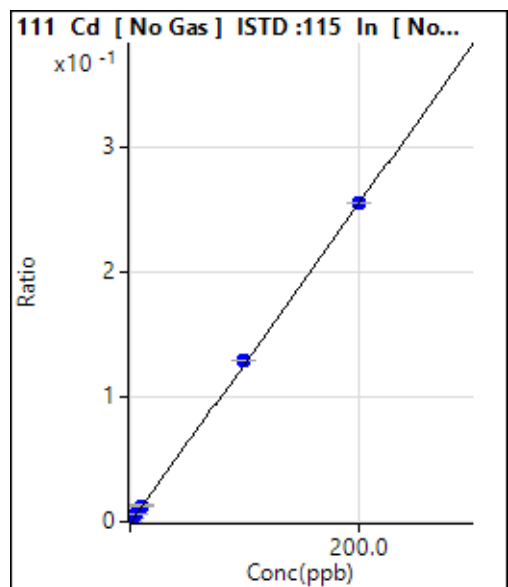
$$R = 1.0000$$

$$DL = 0.02569 \text{ ppb}$$

$$BEC = 0.03242 \text{ ppb}$$

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	☐	2.000	2.041	2993.73	0.0026	P	4.3	2.1
3	☐	5.000	4.872	7158.75	0.0062	P	1.9	-2.6
4	☐	10.000	10.088	14715.10	0.0129	P	3.6	0.9
5	☐	100.000	100.972	146656.78	0.1294	P	0.4	1.0
6	☐	200.000	199.513	289375.89	0.2557	P	0.6	-0.2

$$y = 0.0013 * x + 2.9290E-006$$

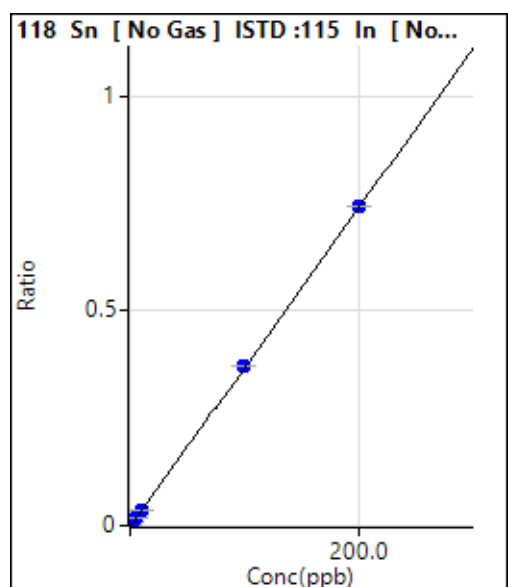
$$R = 1.0000$$

$$DL = 0.01188 \text{ ppb}$$

$$BEC = 0.002285 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.04	0.0007	P	8.2	
2	☐	2.000	1.978	9206.72	0.0081	P	5.0	-1.1
3	☐	5.000	4.823	21341.00	0.0186	P	1.7	-3.5
4	☐	10.000	9.829	42348.82	0.0372	P	2.6	-1.7
5	☐	100.000	99.911	421376.02	0.3718	P	0.7	-0.1
6	☐	200.000	200.058	841801.94	0.7438	P	0.5	0.0

$$y = 0.0037 * x + 7.0632E-004$$

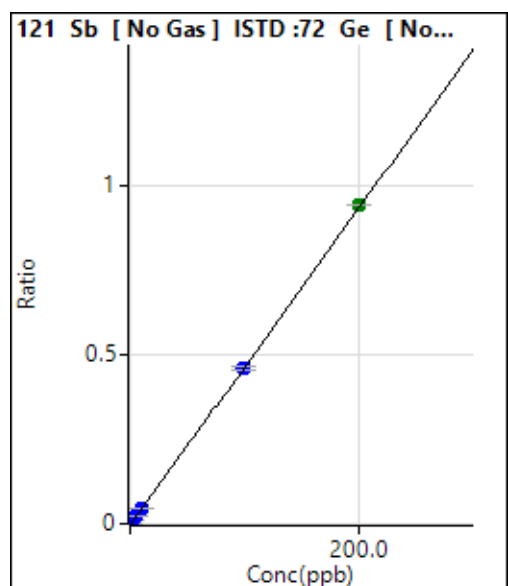
$$R = 1.0000$$

$$DL = 0.04704 \text{ ppb}$$

$$BEC = 0.1902 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0003	P	34.2	
2	☐	2.000	2.016	13116.82	0.0097	P	2.8	0.8
3	☐	5.000	4.779	30158.48	0.0226	P	2.4	-4.4
4	☐	10.000	9.573	59803.39	0.0451	P	4.0	-4.3
5	☐	100.000	97.737	605591.85	0.4578	P	2.5	-2.3
6	☐	200.000	201.158	1237981.78	0.9419	A	0.5	0.6

$$y = 0.0047 * x + 2.6754E-004$$

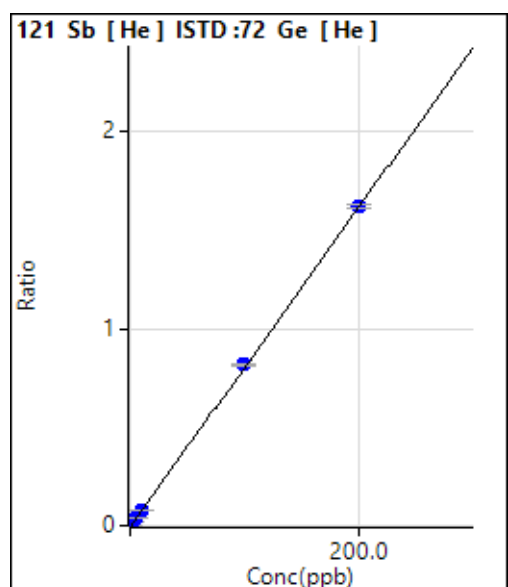
$$R = 0.9999$$

$$DL = 0.05863 \text{ ppb}$$

$$BEC = 0.05715 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.67	0.0004	P	13.1	
2	☐	2.000	1.988	8472.89	0.0166	P	3.1	-0.6
3	☐	5.000	4.958	20626.56	0.0407	P	3.0	-0.8
4	☐	10.000	10.051	41516.17	0.0821	P	2.2	0.5
5	☐	100.000	100.553	416132.53	0.8170	P	1.1	0.6
6	☐	200.000	199.722	817838.92	1.6223	P	1.1	-0.1

$$y = 0.0081 * x + 4.3025E-004$$

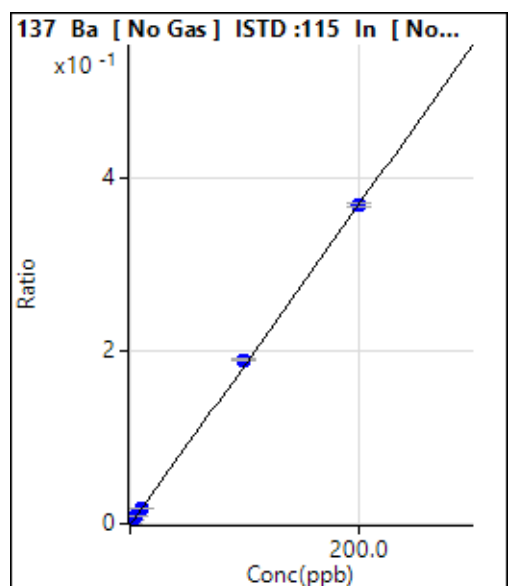
$$R = 1.0000$$

$$DL = 0.02075 \text{ ppb}$$

$$BEC = 0.05298 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.68	0.0002	P	17.4	
2	☐	2.000	2.073	4620.91	0.0040	P	1.8	3.7
3	☐	5.000	4.907	10654.58	0.0093	P	2.0	-1.9
4	☐	10.000	9.660	20603.38	0.0181	P	2.1	-3.4
5	☐	100.000	102.225	214940.52	0.1897	P	1.2	2.2
6	☐	200.000	198.906	417401.04	0.3689	P	1.5	-0.5

$$y = 0.0019 * x + 2.0033E-004$$

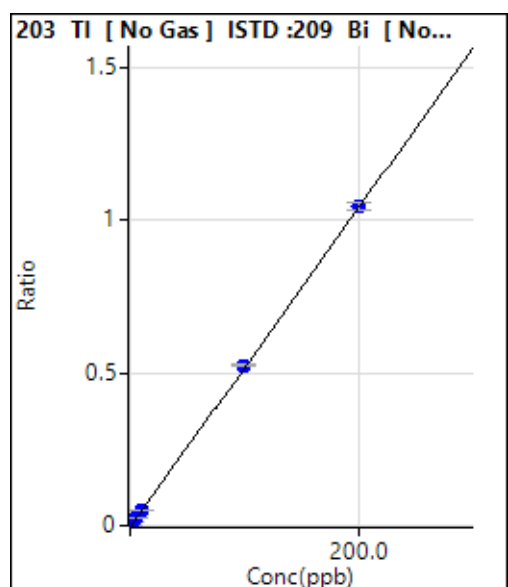
$$R = 0.9999$$

$$DL = 0.05652 \text{ ppb}$$

$$BEC = 0.1081 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	22.0	
2	☐	2.000	1.939	9430.41	0.0102	P	1.2	-3.1
3	☐	5.000	4.656	22694.36	0.0243	P	3.1	-6.9
4	☐	10.000	9.564	46413.41	0.0500	P	0.6	-4.4
5	☐	100.000	100.314	483680.19	0.5240	P	1.4	0.3
6	☐	200.000	199.874	954064.60	1.0440	P	2.7	-0.1

$$y = 0.0052 * x + 2.8904E-005$$

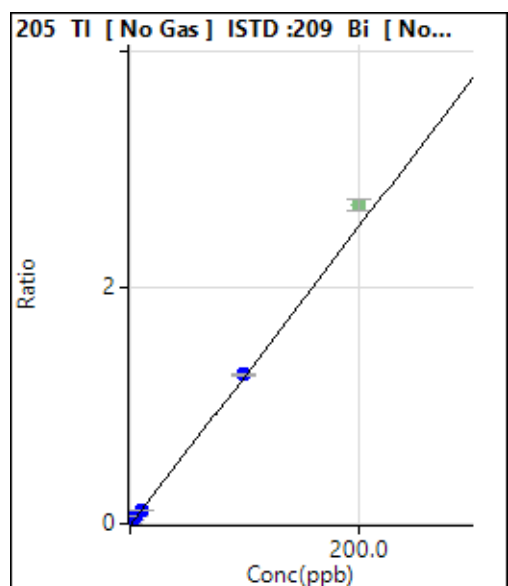
$$R = 1.0000$$

$$DL = 0.003649 \text{ ppb}$$

$$BEC = 0.005534 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	65.7	
2	☐	2.000	1.984	23285.39	0.0251	P	0.8	-0.8
3	☐	5.000	4.621	54385.89	0.0583	P	1.1	-7.6
4	☐	10.000	9.516	111524.03	0.1201	P	0.3	-4.8
5	☐	100.000	100.068	1165429.62	1.2626	P	0.9	0.1
6	☒	200.000		2464196.48	2.6967	A	3.2	

$$y = 0.0126 * x + 4.3260E-005$$

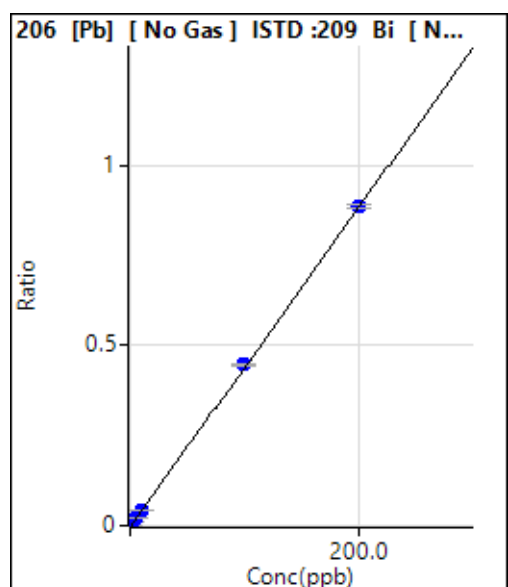
$$R = 1.0000$$

$$DL = 0.006762 \text{ ppb}$$

$$BEC = 0.003429 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	120.00	0.0001	P	25.1	
2	☐	2.000	2.053	8576.47	0.0092	P	3.1	2.6
3	☐	5.000	4.956	20617.43	0.0221	P	2.3	-0.9
4	☐	10.000	9.857	40723.72	0.0439	P	0.6	-1.4
5	☐	100.000	100.501	411637.27	0.4460	P	1.2	0.5
6	☐	200.000	199.757	809994.21	0.8863	P	1.5	-0.1

$$y = 0.0044 * x + 1.3000E-004$$

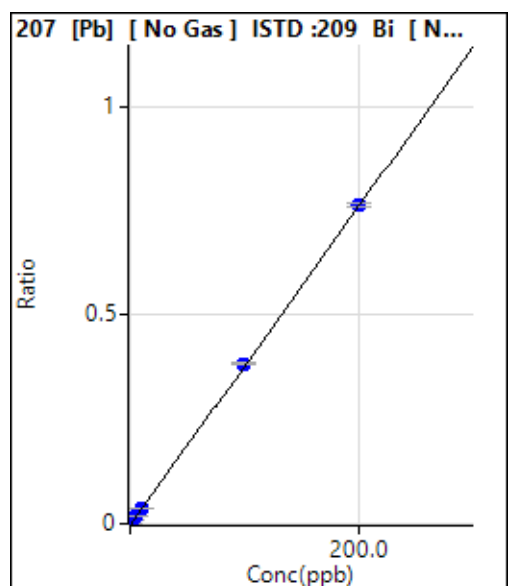
$$R = 1.0000$$

DL = 0.02203 ppb

BEC = 0.0293 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	9.7	
2	☐	2.000	1.945	7005.43	0.0075	P	3.5	-2.8
3	☐	5.000	4.915	17619.34	0.0189	P	2.9	-1.7
4	☐	10.000	9.654	34384.77	0.0370	P	2.8	-3.5
5	☐	100.000	100.203	353810.04	0.3833	P	0.8	0.2
6	☐	200.000	199.918	698869.83	0.7646	P	1.6	0.0

$$y = 0.0038 * x + 1.0831E-004$$

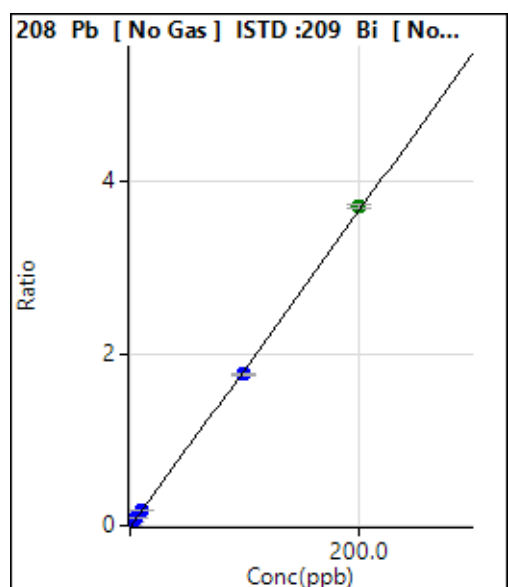
$$R = 1.0000$$

DL = 0.008206 ppb

BEC = 0.02832 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	400.01	0.0004	P	13.1	
2	☐	2.000	1.961	33889.02	0.0365	P	1.2	-1.9
3	☐	5.000	4.707	81081.23	0.0870	P	1.0	-5.9
4	☐	10.000	9.258	158498.38	0.1707	P	1.4	-7.4
5	☐	100.000	95.848	1627348.73	1.7630	P	1.0	-4.2
6	☐	200.000	202.121	3397506.36	3.7173	A	0.7	1.1

$$y = 0.0184 * x + 4.3328E-004$$

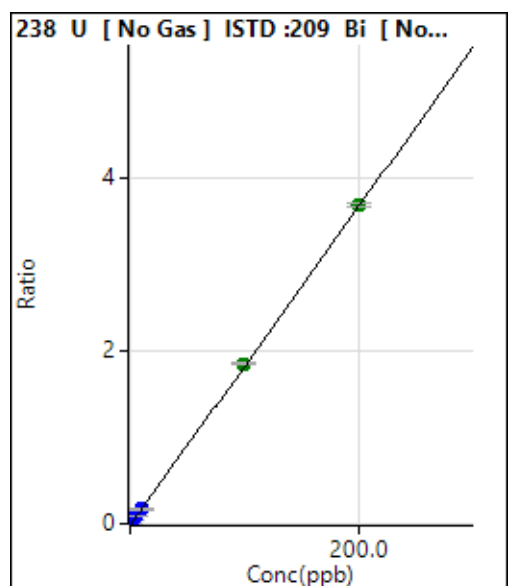
$$R = 0.9997$$

$$DL = 0.009281 \text{ ppb}$$

$$BEC = 0.02356 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.5	
2	☐	2.000	1.884	32343.29	0.0348	P	2.5	-5.8
3	☐	5.000	4.430	76328.56	0.0819	P	0.1	-11.4
4	☐	10.000	9.070	155682.21	0.1677	P	1.6	-9.3
5	☐	100.000	100.115	1707878.20	1.8503	A	1.3	0.1
6	☐	200.000	200.005	3378897.66	3.6965	A	1.4	0.0

$$y = 0.0185 * x + 1.8071E-005$$

$$R = 1.0000$$

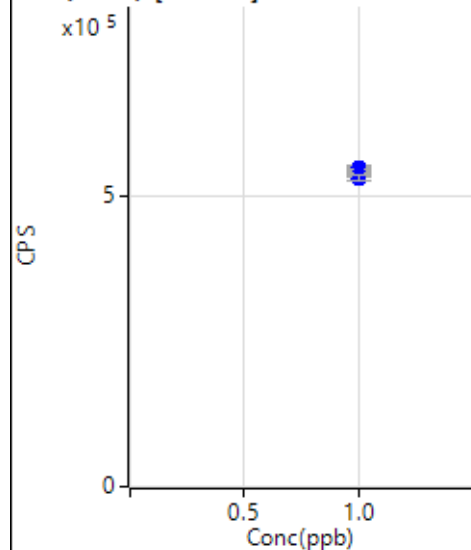
$$DL = 0.002038 \text{ ppb}$$

$$BEC = 0.0009778 \text{ ppb}$$

Weight: <None>

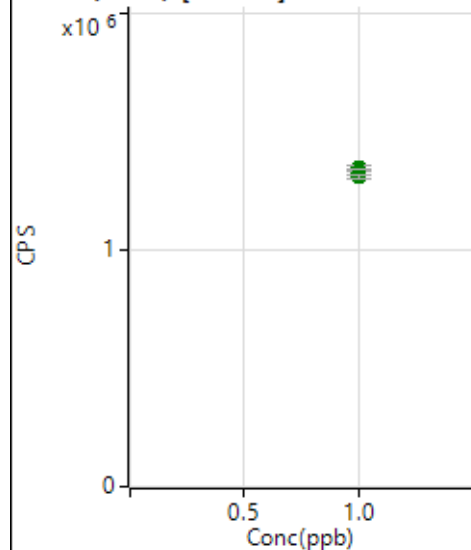
Min Conc: <None>

6 Li (ISTD) [No Gas]



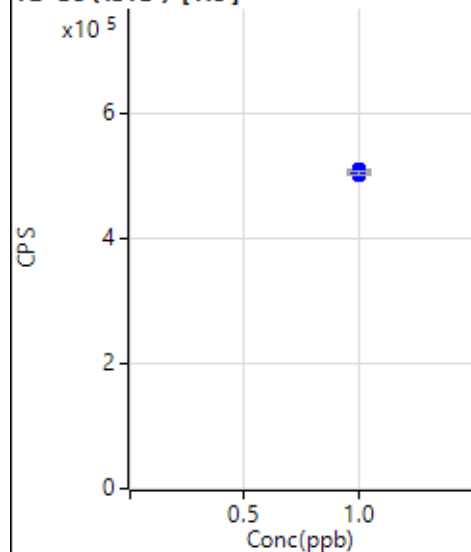
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		547647.74		P	0.7	
2	☐	1.000		550899.29		P	0.3	
3	☐	1.000		550867.94		P	0.7	
4	☐	1.000		547989.96		P	0.4	
5	☐	1.000		536527.93		P	1.2	
6	☐	1.000		532389.48		P	1.8	

72 Ge (ISTD) [No Gas]



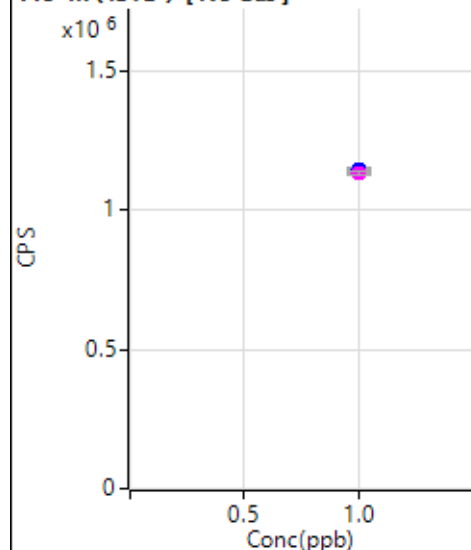
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1347492.79		A	1.8	
2	☐	1.000		1351994.51		A	1.6	
3	☐	1.000		1332261.70		A	2.3	
4	☐	1.000		1326901.80		A	0.9	
5	☐	1.000		1323377.77		A	2.5	
6	☐	1.000		1314337.95		A	1.2	

72 Ge (ISTD) [He]

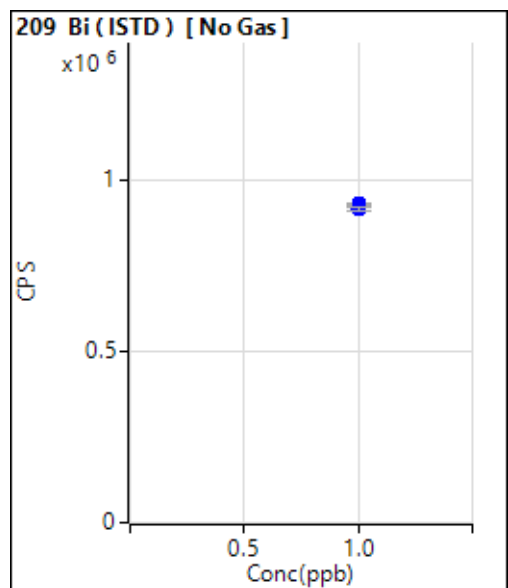


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		503154.39		P	1.0	
2	☐	1.000		511246.20		P	0.5	
3	☐	1.000		506967.77		P	0.7	
4	☐	1.000		506035.35		P	0.9	
5	☐	1.000		509385.16		P	1.3	
6	☐	1.000		504153.28		P	1.1	

115 In (ISTD) [No Gas]



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1132392.01		P	0.7	
2	☐	1.000		1142937.34		P	0.4	
3	☐	1.000		1146084.05		P	1.2	
4	☐	1.000		1137911.71		P	0.5	
5	☐	1.000		1133308.89		P	0.9	
6	☐	1.000		1131770.30		M	1.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		923104.13		P	0.4	
2	☐	1.000		928558.29		P	0.5	
3	☐	1.000		932153.21		P	0.6	
4	☐	1.000		928591.13		P	0.5	
5	☐	1.000		923040.17		P	0.4	
6	☐	1.000		914027.98		P	1.2	

Sample Report

Sample Table

Sample Name LLICV2
 Data File Name 020LCV2.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:23:15-06:00
 Sample Type LLCCV2
 Dilution 1
 Comment
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.091	2.091	7.17	46746	0.00	2	
Be	9	1	No Gas	2.166	2.166	3.98	3951	0.05	2	
V	51	2	He	1.688	1.688	6.69	8301	0.02	2	
Cr	52	2	He	2.112	2.112	5.82	10247	0.02	2	
Fe	56	2	He	222.331	222.331	0.28	795120	0.03	200	
Se	78	2	He	1.625	1.625	6.49	572	0.28	2	
As	75	2	He	1.924	1.924	4.93	1319	0.15	2	
Ca	44	2	He	218.071	218.071	7.66	6525	3.34	200	
Na	23	2	He	209.185	209.185	1.37	235296	0.09	200	
Mg	24	2	He	217.892	217.892	1.20	83872	0.26	200	
K	39	2	He	217.678	217.678	3.10	220160	0.10	200	
Mn	55	2	He	2.154	2.154	5.99	6895	0.03	2	
Co	59	2	He	2.115	2.115	0.46	11789	0.02	2	
Ni	60	2	He	2.047	2.047	6.55	3020	0.07	2	
Cu	63	2	He	2.192	2.192	2.67	9941	0.02	2	
Zn	66	2	He	3.076	3.076	7.26	3204	0.10	2	NewName Main CR1 Failed
Al	27	2	He	2.416	2.416	10.02	1303	0.19	2	
B	11	1	No Gas	39.413	39.413	9.02	38150	0.10	10	NewName Main CR1 Failed
Al	27	1	No Gas	2.483	2.483	4.74	35549	0.01	2	
Si	28	1	No Gas	16.125	16.125	1.28	301486	0.01	10	NewName Main CR1 Failed
Ag	107	1	No Gas	2.062	2.062	0.66	15756	0.01	2	
Cd	111	1	No Gas	2.031	2.031	7.30	2997	0.07	2	
Sr	88	1	No Gas	2.072	2.072	0.44	28945	0.01	2	
Mo	95	1	No Gas	2.024	2.024	2.08	5678	0.04	2	
Sn	118	1	No Gas	2.149	2.149	1.13	9991	0.02	2	
Sb	121	1	No Gas	1.969	1.969	4.38	12663	0.02	2	
Ba	137	1	No Gas	2.040	2.040	3.70	4578	0.04	2	
Tl	205	1	No Gas	2.043	2.043	2.68	24060	0.01	2	
Tl	203	1	No Gas	1.997	1.997	5.58	9744	0.02	2	
Pb	208	1	No Gas	1.995	1.995	3.04	34583	0.01	2	
U	238	1	No Gas	1.894	1.894	0.96	32634	0.01	2	
Ca	43	2	He	202.417	202.417	16.35	363	55.71	200	
Sb	121	2	He	2.137	2.137	4.78	9180	0.02	2	
Ti	47	2	He	2.105	2.105	0.54	300	0.70	200	
Cu	63	1	No Gas	2.162	2.162	4.12	15876	0.01	2	
Se	82	1	No Gas	1.109	1.109	174.68	120	0.93	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	551694	0.18	547648	100.74	70	120	
Ge	72	2	He	516161	0.52	503154	102.59	70	120	
Ge	72	1	No Gas	1335373	0.39	1347493	99.10	70	120	
In	115	1	No Gas	1149713	1.07	1132392	101.53	70	120	
Bi	209	1	No Gas	931871	0.60	923104	100.95	70	120	

Sample Report

Sample Table

Sample Name LLICV5
 Data File Name 021LCV5.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:25:09-06:00
 Sample Type LLCCV5
 Dilution 1
 Comment
 ISTD Ref FileName 011CALB.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	4.873	4.873	2.50	66688	0.01	5	
Be	9	1	No Gas	4.801	4.801	2.05	8674	0.06	5	
V	51	2	He	4.483	4.483	1.09	17829	0.03	5	
Cr	52	2	He	4.922	4.922	6.13	20983	0.02	5	
Fe	56	2	He	524.389	524.389	1.26	1834071	0.03	500	
Se	78	2	He	4.439	4.439	22.62	735	0.60	5	
As	75	2	He	4.919	4.919	0.90	3140	0.16	5	
Ca	44	2	He	491.097	491.097	4.62	13333	3.68	500	
Na	23	2	He	516.599	516.599	1.10	426677	0.12	500	
Mg	24	2	He	512.620	512.620	1.13	195903	0.26	500	
K	39	2	He	514.664	514.664	2.75	360016	0.14	500	
Mn	55	2	He	4.993	4.993	0.58	15386	0.03	5	
Co	59	2	He	4.983	4.983	2.05	27552	0.02	5	
Ni	60	2	He	5.083	5.083	2.55	7319	0.07	5	
Cu	63	2	He	4.975	4.975	3.42	20462	0.02	5	
Zn	66	2	He	5.382	5.382	3.43	5001	0.11	5	
Al	27	2	He	5.237	5.237	9.21	1980	0.26	5	
B	11	1	No Gas	37.751	37.751	1.39	36454	0.10	25	NewName2 Main CR1 Failed
Al	27	1	No Gas	5.383	5.383	2.04	55374	0.01	5	
Si	28	1	No Gas	25.809	25.809	3.45	333064	0.01	25	
Ag	107	1	No Gas	4.851	4.851	2.17	36611	0.01	5	
Cd	111	1	No Gas	5.036	5.036	5.67	7402	0.07	5	
Sr	88	1	No Gas	4.836	4.836	1.71	66857	0.01	5	
Mo	95	1	No Gas	4.719	4.719	2.35	13147	0.04	5	
Sn	118	1	No Gas	4.989	4.989	2.55	22046	0.02	5	
Sb	121	1	No Gas	4.644	4.644	0.85	29480	0.02	5	
Ba	137	1	No Gas	4.857	4.857	5.31	10544	0.05	5	
Tl	205	1	No Gas	4.569	4.569	1.85	53927	0.01	5	
Tl	203	1	No Gas	4.614	4.614	2.10	22554	0.02	5	
Pb	208	1	No Gas	4.646	4.646	1.59	80257	0.01	5	
U	238	1	No Gas	4.465	4.465	1.01	77151	0.01	5	
Ca	43	2	He	442.441	442.441	16.29	713	62.02	500	
Sb	121	2	He	4.890	4.890	0.49	20620	0.02	5	
Ti	47	2	He	5.399	5.399	3.38	750	0.72	5	
Cu	63	1	No Gas	4.833	4.833	1.40	32382	0.01	5	
Se	82	1	No Gas	3.826	3.826	73.19	363	1.05	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	547083	0.09	547648	99.90	70	120	
Ge	72	2	He	513642	0.67	503154	102.08	70	120	
Ge	72	1	No Gas	1339614	1.04	1347493	99.42	70	120	
In	115	1	No Gas	1146199	1.16	1132392	101.22	70	120	
Bi	209	1	No Gas	934751	0.39	923104	101.26	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name ICB
 Data File Name 022_ICB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:27:03-06:00
 Sample Type ICB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.063	71.8	30351	1.6	0.5	
Be	9	1	No Gas	0.002	157.7	12	49.5	0.5	
V	51	2	He	-0.073	-35.9	2168	4.2	2.5	
Cr	52	2	He	0.028	98.6	2137	6.0	2.5	
Fe	56	2	He	0.509	16.1	24699	2.3	100	
Se	78	2	He	-0.437	-52.3	435	2.4	1	
As	75	2	He	0.112	32.4	201	11.0	2.5	
Ca	44	2	He	-11.306	-9.4	727	2.9	100	
Na	23	2	He	-25.982	-12.8	84401	1.5	100	
Mg	24	2	He	0.662	50.3	570	22.4	100	
K	39	2	He	1.573	127.7	113256	0.4	100	
Mn	55	2	He	0.155	27.3	837	15.6	2.5	
Co	59	2	He	0.006	35.8	93	12.4	2.5	
Ni	60	2	He	0.025	154.5	130	40.0	2.5	
Cu	63	2	He	0.164	34.1	2127	10.8	1	
Zn	66	2	He	0.457	10.1	1097	4.3	2.5	
Al	27	2	He	-0.244	-141.9	633	12.0	5	
B	11	1	No Gas	13.501	2.2	15724	1.8	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-0.183	-45.1	17004	4.1	5	
Si	28	1	No Gas	1.201	172.9	247326	0.6	10	
Ag	107	1	No Gas	0.011	37.9	317	9.6	2.5	
Cd	111	1	No Gas	0.002	341.9	7	173.2	1	
Sr	88	1	No Gas	0.002	127.2	393	9.6	2.5	
Mo	95	1	No Gas	0.008	76.3	57	27.0	2.5	
Sn	118	1	No Gas	0.598	10.9	3274	7.6	5	
Sb	121	1	No Gas	0.069	11.0	767	6.7	2.5	
Ba	137	1	No Gas	0.003	770.8	230	19.9	2.5	
Tl	205	1	No Gas	0.023	49.0	303	43.0	1	
Tl	203	1	No Gas	0.019	69.8	117	54.4	1	
Pb	208	1	No Gas	0.015	41.8	643	15.6	2.5	
U	238	1	No Gas	0.001	90.0	33	45.8	2.5	
Ca	43	2	He	-30.193	-23.6	20	50.0	100	
Sb	121	2	He	0.042	47.8	387	22.0	2.5	
Ti	47	2	He	-0.024	-178.8	7	86.6	2.5	
Se	82	1	No Gas	0.132	408.5	32	147.4	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	526571	0.53	547648	96.15	70	120	
Ge	72	2	He	499201	1.19	503154	99.21	70	120	
Ge	72	1	No Gas	1298613	2.09	1347493	96.37	70	120	
In	115	1	No Gas	1118571	0.67	1132392	98.78	70	120	
Bi	209	1	No Gas	912454	0.61	923104	98.85	70	120	



Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name ICSA
 Data File Name 024ICSA.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:30:52-06:00
 Sample Type ICSA
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.149	38.7	31500	2.0	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.009	87.7	25	60.0	0	ICSA Main CR1 Failed
V	51	2	He	-0.339	-5.9	1351	5.5	0	ICSA Main CR1 Failed
Cr	52	2	He	0.723	12.0	4981	7.0	0	ICSA Main CR1 Failed
Fe	56	2	He	95958.445	1.3	339206028	1.5	0	
Se	78	2	He	-0.557	-47.4	451	3.6	0	ICSA Main CR1 Failed
As	75	2	He	0.275	21.8	313	12.1	0	ICSA Main CR1 Failed
Ca	44	2	He	93468.945	1.7	2398372	1.5	0	
Na	23	2	He	96861.415	0.7	62216176	0.9	0	
Mg	24	2	He	96300.084	0.6	37615270	0.4	0	
K	39	2	He	96412.366	1.4	46961949	1.6	0	
Mn	55	2	He	1.448	0.6	4854	0.3	0	ICSA Main CR1 Failed
Co	59	2	He	0.843	5.7	4828	5.4	0	ICSA Main CR1 Failed
Ni	60	2	He	1.123	4.3	1733	4.2	0	ICSA Main CR1 Failed
Cu	63	2	He	0.615	9.6	3991	5.5	0	ICSA Main CR1 Failed
Zn	66	2	He	1.941	3.7	2350	2.6	0	ICSA Main CR1 Failed
Al	27	2	He	88316.078	0.3	21918385	0.3	0	
B	11	1	No Gas	13.448	7.3	15953	4.1	0	
Al	27	1	No Gas	89856.581	0.7	627270724	1.1	0	
Si	28	1	No Gas	41.079	9.5	391798	4.7	0	
Ag	107	1	No Gas	0.034	43.0	497	21.5	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.740	4.8	1083	3.7	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	1.188	2.7	16614	3.6	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1929.567	0.4	5331264	1.4	0	
Sn	118	1	No Gas	0.231	14.6	1783	8.4	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.166	4.6	1433	2.0	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	1.168	5.0	2697	5.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.009	64.9	137	47.0	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.011	11.4	77	7.5	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.742	4.7	12743	4.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.007	12.4	133	11.5	0	ICSA Main CR1 Failed
Ca	43	2	He	93320.397	1.3	140078	1.1	0	
Sb	121	2	He	0.155	22.1	890	16.6	0	ICSA Main CR1 Failed
Ti	47	2	He	1981.760	0.4	278030	0.5	0	
Se	82	1	No Gas	-0.300	-521.8	-8	-1875.8	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	535860	1.15	547648	97.85	70	120	
Ge	72	2	He	525863	0.24	503154	104.51	70	120	
Ge	72	1	No Gas	1375755	1.78	1347493	102.10	70	120	
In	115	1	No Gas	1139865	1.06	1132392	100.66	70	120	
Bi	209	1	No Gas	904583	0.80	923104	97.99	70	120	



Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name ICSAB
 Data File Name 025ICSB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:32:47-06:00
 Sample Type ICSB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	96.140	0.398	696077	1.17	100	96.1	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	93.720	1.119	160461	0.34	100	93.7	80	120	
V	51	2	He	94.276	0.841	334262	0.47	100	94.3	80	120	
Cr	52	2	He	93.625	1.904	371369	1.52	100	93.6	80	120	
Fe	56	2	He	104625.247	0.683	371225781	0.47	100	104625.2	80	120	
Se	78	2	He	92.467	2.003	6105	2.22	100	92.5	80	120	
As	75	2	He	96.805	1.279	60851	0.90	100	96.8	80	120	
Ca	44	2	He	101485.057	0.703	2613847	0.60	100	101485.1	80	120	
Na	23	2	He	105355.559	0.797	67917307	0.77	100	105355.6	80	120	
Mg	24	2	He	104650.380	0.984	41030674	0.62	100	104650.4	80	120	
K	39	2	He	105271.528	0.330	51459081	0.53	100	105271.5	80	120	
Mn	55	2	He	95.358	0.339	294626	0.10	100	95.4	80	120	
Co	59	2	He	94.303	0.445	534708	0.13	100	94.3	80	120	
Ni	60	2	He	91.043	1.907	132967	1.53	100	91.0	80	120	
Cu	63	2	He	91.064	0.792	357150	0.61	100	91.1	80	120	
Zn	66	2	He	94.258	1.370	76985	1.55	100	94.3	80	120	
Al	27	2	He	88035.961	0.269	21931380	0.40	100	88036.0	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	539.736	1.287	429635	1.94	100	539.7	80	120	
Al	27	1	No Gas	89746.426	1.501	616302524	0.95	100	89746.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	499.720	1.394	1851179	1.04	100	499.7	80	120	
Ag	107	1	No Gas	93.354	1.529	689922	0.18	100	93.4	80	120	
Cd	111	1	No Gas	96.513	0.967	139699	0.74	100	96.5	80	120	
Sr	88	1	No Gas	101.262	2.458	1372020	1.04	100	101.3	80	120	
Mo	95	1	No Gas	2044.640	1.624	5596731	0.14	100	2044.6	80	120	
Sn	118	1	No Gas	98.568	0.811	414308	1.01	100	98.6	80	120	
Sb	121	1	No Gas	93.131	0.789	590395	1.41	100	93.1	80	120	
Ba	137	1	No Gas	100.677	1.108	210991	2.00	100	100.7	80	120	
Tl	205	1	No Gas	91.614	0.664	1044665	0.17	100	91.6	80	120	
Tl	203	1	No Gas	91.761	0.805	433183	0.52	100	91.8	80	120	
Pb	208	1	No Gas	93.609	0.543	1556093	0.38	100	93.6	80	120	
U	238	1	No Gas	100.954	1.810	1686289	2.05	100	101.0	80	120	
Ca	43	2	He	103688.279	1.324	156220	1.02	100	103688.3	80	120	
Sb	121	2	He	93.946	0.267	402935	0.48	100	93.9	80	120	
Ti	47	2	He	2073.407	0.494	291989	0.86	100	2073.4	80	120	
Cu	63	1	No Gas	89.976	1.830	562581	1.20	100	90.0	80	120	
Se	82	1	No Gas	91.465	5.124	8289	4.10	100	91.5	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	518979	1.46	547648	94.77	70	120	
Ge	72	2	He	527849	0.38	503154	104.91	70	120	
Ge	72	1	No Gas	1353442	1.73	1347493	100.44	70	120	
In	115	1	No Gas	1129513	1.69	1132392	99.75	70	120	
Bi	209	1	No Gas	903766	0.72	923104	97.91	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 029_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:41:54-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.036	47.1	29286	0.4	0.5	
Be	9	1	No Gas	0.008	83.1	22	53.3	0.5	
V	51	2	He	-0.209	-12.0	1705	5.1	2.5	
Cr	52	2	He	0.250	6.0	2940	1.8	2.5	
Fe	56	2	He	1.983	9.1	29429	1.4	100	
Se	78	2	He	-0.220	-214.5	444	6.2	2	
As	75	2	He	0.062	97.4	170	20.4	2.5	
Ca	44	2	He	-5.991	-30.1	850	5.1	100	
Na	23	2	He	5.212	10.3	102655	0.3	100	
Mg	24	2	He	0.810	1.3	620	0.0	100	
K	39	2	He	3.406	34.3	113282	0.3	100	
Mn	55	2	He	0.202	11.0	967	7.0	2.5	
Co	59	2	He	0.004	29.6	83	6.9	2.5	
Ni	60	2	He	0.106	42.8	240	25.3	2.5	
Cu	63	2	He	0.257	2.0	2450	1.1	2	
Zn	66	2	He	0.108	152.2	823	14.8	2.5	
Al	27	2	He	0.401	129.7	780	15.6	5	
B	11	1	No Gas	27.355	14.8	26006	12.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.540	31.4	21744	4.3	5	
Si	28	1	No Gas	-0.711	-234.4	241261	0.7	10	
Ag	107	1	No Gas	0.010	71.8	307	16.1	2.5	
Cd	111	1	No Gas	0.005	148.4	10	100.0	1	
Sr	88	1	No Gas	0.009	49.8	490	12.4	2.5	
Mo	95	1	No Gas	0.082	25.5	257	21.5	2.5	
Sn	118	1	No Gas	0.560	2.4	3107	1.7	5	
Sb	121	1	No Gas	0.206	32.3	1593	24.5	2.5	
Ba	137	1	No Gas	-0.050	-35.1	120	30.0	2.5	
Tl	205	1	No Gas	0.062	32.6	760	31.6	1	
Tl	203	1	No Gas	0.058	32.8	303	30.6	1	
Pb	208	1	No Gas	0.028	25.1	877	14.4	2.5	
U	238	1	No Gas	0.006	74.9	117	64.3	2.5	
Ca	43	2	He	-18.319	-45.5	37	31.5	100	
Sb	121	2	He	0.167	4.2	887	2.6	2.5	
Ti	47	2	He	0.027	161.0	13	43.3	2.5	
Cu	63	1	No Gas	0.186	29.2	3637	10.1	2.5	
Se	82	1	No Gas	-0.008	-21906.6	19	756.4	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	511278	0.11	547648	93.36	70	120	
Ge	72	2	He	495593	0.62	503154	98.50	70	120	
Ge	72	1	No Gas	1297318	1.41	1347493	96.28	70	120	
In	115	1	No Gas	1114826	0.49	1132392	98.45	70	120	
Bi	209	1	No Gas	916032	0.65	923104	99.23	70	120	



Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 030_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:43:48-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.729	3.082	749810	3.34	100	99.7	90	110	
Be	9	1	No Gas	99.601	1.024	177366	1.77	100	99.6	90	110	
V	51	2	He	98.850	0.644	349305	0.27	100	98.9	90	110	
Cr	52	2	He	99.334	0.964	392711	0.63	100	99.3	90	110	
Fe	56	2	He	9932.296	0.932	35156592	0.36	10000	99.3	90	110	
Se	78	2	He	98.599	1.402	6458	1.35	100	98.6	90	110	
As	75	2	He	100.761	0.206	63143	0.55	100	100.8	90	110	
Ca	44	2	He	9874.683	0.654	254530	1.18	10000	98.7	90	110	
Na	23	2	He	9926.038	0.329	6475268	0.26	10000	99.3	90	110	
Mg	24	2	He	9994.372	0.799	3907073	0.46	10000	99.9	90	110	
K	39	2	He	9834.304	1.078	4900546	1.63	10000	98.3	90	110	
Mn	55	2	He	100.215	1.135	308679	1.00	100	100.2	90	110	
Co	59	2	He	101.905	0.358	576069	0.36	100	101.9	90	110	
Ni	60	2	He	101.083	1.295	147177	0.85	100	101.1	90	110	
Cu	63	2	He	99.727	0.789	389799	0.87	100	99.7	90	110	
Zn	66	2	He	101.875	0.674	82893	1.18	100	101.9	90	110	
Al	27	2	He	101.611	3.269	25968	3.70	100	101.6	90	110	
B	11	1	No Gas	510.141	2.807	422598	3.28	500	102.0	90	110	
Al	27	1	No Gas	101.758	2.718	723061	0.47	100	101.8	90	110	
Si	28	1	No Gas	503.177	3.741	1875809	1.15	5000	101.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.387	0.522	752880	1.01	100	98.4	90	110	
Cd	111	1	No Gas	101.257	0.788	151748	0.73	100	101.3	90	110	
Sr	88	1	No Gas	100.754	0.316	1413661	0.98	100	100.8	90	110	
Mo	95	1	No Gas	98.825	0.271	280142	0.96	100	98.8	90	110	
Sn	118	1	No Gas	99.559	0.892	433244	0.63	100	99.6	90	110	
Sb	121	1	No Gas	96.554	2.015	616632	1.01	100	96.6	90	110	
Ba	137	1	No Gas	100.235	0.858	217490	1.82	100	100.2	90	110	
Tl	205	1	No Gas	100.599	0.636	1213102	0.79	100	100.6	90	110	
Tl	203	1	No Gas	100.799	0.640	503222	0.89	100	100.8	90	110	
Pb	208	1	No Gas	94.839	0.483	1667299	1.38	100	94.8	90	110	
U	238	1	No Gas	100.230	0.347	1770486	1.10	100	100.2	90	110	
Ca	43	2	He	9672.948	2.087	14591	2.53	10000	96.7	90	110	
Sb	121	2	He	99.551	0.883	425673	0.93	100	99.6	90	110	
Ti	47	2	He	101.047	1.092	14198	1.67	100	101.0	90	110	
Cu	63	1	No Gas	97.362	1.575	613202	1.55	100	97.4	90	110	
Se	82	1	No Gas	100.063	3.588	9136	2.72	100	100.1	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	539696	0.74	547648	98.55	70	120	
Ge	72	2	He	526264	0.57	503154	104.59	70	120	
Ge	72	1	No Gas	1363988	3.02	1347493	101.22	70	120	
In	115	1	No Gas	1169383	1.23	1132392	103.27	70	120	
Bi	209	1	No Gas	955747	0.93	923104	103.54	70	120	

Sample Report

Sample Table

Sample Name	MBLK-188726
Data File Name	031SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\012423D.b
Acq Date Time	2023-01-24T14:45:46-06:00
Sample Type	Sample
Dilution	1
Comment	DOD TW B 188726
ISTD Ref FileName	011CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.094	0.094	100.47	28895	0.00	2000	
Be	9	1	No Gas	0.007	0.007	135.23	18	0.04	2000	
V	51	2	He	-0.235	-0.235	-11.46	1653	-0.01	2000	
Cr	52	2	He	0.234	0.234	23.49	2950	0.01	2000	
Fe	56	2	He	2.509	2.509	10.79	31921	0.01	200000	
Se	78	2	He	-0.181	-0.181	-7.13	457	-0.04	2000	
As	75	2	He	0.052	0.052	42.87	168	0.03	2000	
Ca	44	2	He	4.835	4.835	111.38	1137	0.43	200000	
Na	23	2	He	6.370	6.370	37.15	105775	0.01	200000	
Mg	24	2	He	1.470	1.470	8.65	883	0.17	200000	
K	39	2	He	-0.892	-0.892	-490.92	113925	0.00	200000	
Mn	55	2	He	0.303	0.303	11.59	1287	0.02	2000	
Co	59	2	He	0.007	0.007	85.44	100	0.01	2000	
Ni	60	2	He	0.280	0.280	25.01	490	0.06	2000	
Cu	63	2	He	0.309	0.309	11.94	2704	0.01	2000	
Zn	66	2	He	1.142	1.142	5.04	1647	0.07	2000	
Al	27	2	He	1.349	1.349	35.29	1027	0.13	2000	
B	11	1	No Gas	29.251	29.251	13.50	26727	0.11	2000	
Al	27	1	No Gas	1.104	1.104	5.85	24509	0.00	2000	
Si	28	1	No Gas	0.866	0.866	120.72	236877	0.00	2000	
Ag	107	1	No Gas	0.012	0.012	49.37	317	0.00	2000	
Cd	111	1	No Gas	0.003	0.003	163.77	7	0.04	2000	
Sr	88	1	No Gas	0.017	0.017	37.49	570	0.00	2000	
Mo	95	1	No Gas	0.071	0.071	25.88	220	0.03	2000	
Sn	118	1	No Gas	0.597	0.597	11.78	3160	0.02	2000	
Sb	121	1	No Gas	0.132	0.132	29.26	1107	0.01	2000	
Ba	137	1	No Gas	-0.030	-0.030	-11.43	157	-0.02	2000	
Tl	205	1	No Gas	0.123	0.123	49.80	1410	0.01	2000	
Tl	203	1	No Gas	0.116	0.116	45.61	560	0.02	2000	
Pb	208	1	No Gas	0.039	0.039	9.32	1017	0.00	2000	
U	238	1	No Gas	0.006	0.006	46.16	107	0.01	2000	
Ca	43	2	He	1.680	1.680	816.78	67	2.52	200000	
Sb	121	2	He	0.124	0.124	21.34	730	0.02	2000	
Ti	47	2	He	0.098	0.098	40.69	23	0.42	2000	
Cu	63	1	No Gas	0.246	0.246	8.98	3844	0.01	2000	
Zn	66	1	No Gas	1.053	1.053	13.72	3194	0.03	2000	
Se	82	1	No Gas	-0.567	-0.567	-117.60	-27	2.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	497911	1.81	547648	90.92	70	120	
Ge	72	2	He	507263	1.64	503154	100.82	70	120	



Sample Report

Ge	72	1	No Gas	1248608	1.09	1347493	92.66	70	120	
In	115	1	No Gas	1082479	1.98	1132392	95.59	70	120	
Bi	209	1	No Gas	888289	1.44	923104	96.23	70	120	

Sample Report

Sample Table

Sample Name LCS-188726
 Data File Name 032SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:47:58-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Pass
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	99.028	99.028	5.24	775459	0.01	2000	
Be	9	1	No Gas	49.603	49.603	1.14	91991	0.05	2000	
V	51	2	He	47.847	47.847	1.68	175987	0.03	2000	
Cr	52	2	He	48.608	48.608	1.63	199616	0.02	2000	
Fe	56	2	He	4882.925	4882.925	0.48	17866484	0.03	200000	
Se	78	2	He	49.165	49.165	1.15	3577	1.37	2000	
As	75	2	He	49.725	49.725	1.25	32260	0.15	2000	
Ca	44	2	He	4841.415	4841.415	1.22	129453	3.74	200000	
Na	23	2	He	4790.369	4790.369	1.64	3284173	0.15	200000	
Mg	24	2	He	4941.209	4941.209	1.25	1995370	0.25	200000	
K	39	2	He	4910.011	4910.011	0.87	2588504	0.19	200000	
Mn	55	2	He	48.405	48.405	2.34	154205	0.03	2000	
Co	59	2	He	49.725	49.725	1.22	290384	0.02	2000	
Ni	60	2	He	48.831	48.831	2.85	73482	0.07	2000	
Cu	63	2	He	50.744	50.744	2.25	205658	0.02	2000	
Zn	66	2	He	52.643	52.643	1.48	44634	0.12	2000	
Al	27	2	He	101.486	101.486	1.46	26793	0.38	2000	
B	11	1	No Gas	472.619	472.619	3.72	408143	0.12	2000	
Al	27	1	No Gas	100.231	100.231	1.42	748336	0.01	2000	
Si	28	1	No Gas	576.482	576.482	3.03	2217991	0.03	2000	
Ag	107	1	No Gas	47.660	47.660	1.94	384837	0.01	2000	
Cd	111	1	No Gas	49.248	49.248	2.98	77843	0.06	2000	
Sr	88	1	No Gas	97.325	97.325	2.91	1440242	0.01	2000	
Mo	95	1	No Gas	47.690	47.690	1.96	142620	0.03	2000	
Sn	118	1	No Gas	95.363	95.363	2.54	437750	0.02	2000	
Sb	121	1	No Gas	47.164	47.164	0.59	316546	0.01	2000	
Ba	137	1	No Gas	48.248	48.248	1.86	110553	0.04	2000	
Tl	205	1	No Gas	41.550	41.550	1.24	523071	0.01	2000	
Tl	203	1	No Gas	41.491	41.491	1.23	216246	0.02	2000	
Pb	208	1	No Gas	46.699	46.699	1.01	857219	0.01	2000	
U	238	1	No Gas	99.155	99.155	1.07	1828354	0.01	2000	
Ca	43	2	He	4822.798	4822.798	0.45	7549	63.89	200000	
Sb	121	2	He	48.127	48.127	1.56	212675	0.02	2000	
Ti	47	2	He	145.948	145.948	1.06	21177	0.69	2000	
Cu	63	1	No Gas	49.991	49.991	1.15	331979	0.02	2000	
Zn	66	1	No Gas	52.714	52.714	0.90	95999	0.05	2000	
Se	82	1	No Gas	49.934	49.934	2.58	4801	1.04	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	562070	0.46	547648	102.63	70	120	
Ge	72	2	He	543627	1.46	503154	108.04	70	120	
Ge	72	1	No Gas	1432024	1.37	1347493	106.27	70	120	
In	115	1	No Gas	1233838	2.34	1132392	108.96	70	120	



Sample Report

Bi	209	1	No Gas	997710	0.69	923104	108.08	70	120	
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Sample Report

Sample Table

Sample Name HS23010489-02SD
 Data File Name 034SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:51:44-06:00
 Sample Type Sample
 Dilution 5
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	4.226	21.131	4.19	59589	0.01	2000	
Be	9	1	No Gas	0.003	0.016	196.53	13	0.02	2000	
V	51	2	He	0.153	0.767	30.55	2884	0.01	2000	
Cr	52	2	He	58.156	290.780	0.60	216136	0.03	2000	
Fe	56	2	He	563.426	2817.128	0.48	1889001	0.03	200000	
Se	78	2	He	-0.775	-3.876	-43.04	410	-0.19	2000	
As	75	2	He	0.156	0.782	90.06	224	0.07	2000	
Ca	44	2	He	13179.499	65897.496	1.34	317776	4.15	200000	
Na	23	2	He	56225.727	281128.634	0.40	33886016	0.17	200000	
Mg	24	2	He	4133.404	20667.019	1.13	1513348	0.27	200000	
K	39	2	He	308.415	1542.076	2.21	251519	0.12	200000	
Mn	55	2	He	23.231	116.155	1.36	67299	0.03	2000	
Co	59	2	He	0.680	3.399	1.70	3661	0.02	2000	
Ni	60	2	He	64.906	324.529	0.77	88534	0.07	2000	
Cu	63	2	He	1.260	6.298	2.90	6091	0.02	2000	
Zn	66	2	He	0.988	4.942	20.55	1483	0.07	2000	
Al	27	2	He	3.315	16.574	7.09	1453	0.23	2000	
B	11	1	No Gas	22.898	114.488	6.48	23203	0.10	2000	
Al	27	1	No Gas	3.265	16.323	2.60	39664	0.01	2000	
Si	28	1	No Gas	3244.692	16223.462	1.47	10179243	0.03	2000	>LDR
Ag	107	1	No Gas	0.009	0.047	3.69	297	0.00	2000	
Cd	111	1	No Gas	0.280	1.402	11.87	393	0.07	2000	
Sr	88	1	No Gas	198.829	994.145	0.84	2586583	0.01	2000	
Mo	95	1	No Gas	4.922	24.610	3.02	12970	0.04	2000	
Sn	118	1	No Gas	0.513	2.567	3.41	2834	0.02	2000	
Sb	121	1	No Gas	0.170	0.849	23.52	1377	0.01	2000	
Ba	137	1	No Gas	127.384	636.918	0.23	256234	0.05	2000	
Tl	205	1	No Gas	0.027	0.136	26.09	343	0.01	2000	
Tl	203	1	No Gas	0.033	0.167	42.32	180	0.02	2000	
Pb	208	1	No Gas	0.027	0.133	4.83	817	0.00	2000	
U	238	1	No Gas	0.601	3.006	3.63	9861	0.01	2000	
Ca	43	2	He	13532.659	67663.296	0.59	19090	70.89	200000	
Sb	121	2	He	0.153	0.764	26.05	823	0.02	2000	
Ti	47	2	He	0.027	0.137	159.53	13	0.21	2000	
Cu	63	1	No Gas	1.431	7.154	5.32	11055	0.01	2000	
Zn	66	1	No Gas	0.706	3.532	14.61	2754	0.03	2000	
Se	82	1	No Gas	-0.170	-0.850	-782.63	6	-2.83	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	526229	1.50	547648	96.09	70	120	
Ge	72	2	He	492811	0.26	503154	97.94	70	120	
Ge	72	1	No Gas	1296604	0.50	1347493	96.22	70	120	
In	115	1	No Gas	1084372	1.36	1132392	95.76	70	120	



Sample Report

Bi	209	1	No Gas	886179	0.70	923104	96.00	70	120	
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Sample Report

Sample Table

Sample Name HS23010489-02MS
 Data File Name 035SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:53:36-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	131.435	131.435	0.40	994435	0.01	2000	
Be	9	1	No Gas	53.112	53.112	3.38	96145	0.06	2000	
V	51	2	He	53.340	53.340	0.42	193116	0.03	2000	
Cr	52	2	He	392.769	392.769	0.53	1574663	0.02	2000	
Fe	56	2	He	8452.275	8452.275	1.34	30465357	0.03	200000	
Se	78	2	He	50.849	50.849	3.63	3629	1.40	2000	
As	75	2	He	54.099	54.099	0.74	34585	0.16	2000	
Ca	44	2	He	88502.721	88502.721	1.39	2314645	3.82	200000	
Na	23	2	He	361395.925	361395.925	1.16	236251530	0.15	200000	>LDR
Mg	24	2	He	30694.922	30694.922	0.69	12218506	0.25	200000	
K	39	2	He	7043.088	7043.088	1.29	3607956	0.20	200000	
Mn	55	2	He	194.792	194.792	0.76	610578	0.03	2000	
Co	59	2	He	55.680	55.680	0.27	320535	0.02	2000	
Ni	60	2	He	454.190	454.190	0.84	673017	0.07	2000	
Cu	63	2	He	56.684	56.684	1.09	226295	0.03	2000	
Zn	66	2	He	55.426	55.426	1.20	46286	0.12	2000	
Al	27	2	He	116.993	116.993	0.44	30330	0.39	2000	
B	11	1	No Gas	585.297	585.297	5.05	492122	0.12	2000	
Al	27	1	No Gas	115.775	115.775	5.28	831856	0.01	2000	
Si	28	1	No Gas	21980.333	21980.333	2.63	72094672	0.03	2000	>LDR
Ag	107	1	No Gas	48.350	48.350	2.48	372684	0.01	2000	
Cd	111	1	No Gas	50.218	50.218	2.96	75788	0.07	2000	
Sr	88	1	No Gas	1307.985	1307.985	2.80	18475731	0.01	2000	
Mo	95	1	No Gas	82.615	82.615	3.90	235823	0.04	2000	
Sn	118	1	No Gas	101.848	101.848	2.18	446291	0.02	2000	
Sb	121	1	No Gas	49.837	49.837	1.75	323199	0.02	2000	
Ba	137	1	No Gas	886.818	886.818	2.81	1935584	0.05	2000	
Tl	205	1	No Gas	41.945	41.945	2.34	485087	0.01	2000	
Tl	203	1	No Gas	42.067	42.067	2.27	201370	0.02	2000	
Pb	208	1	No Gas	50.069	50.069	1.72	844233	0.01	2000	
U	238	1	No Gas	114.016	114.016	0.47	1931448	0.01	2000	
Ca	43	2	He	90988.721	90988.721	0.76	139180	65.37	200000	
Sb	121	2	He	51.724	51.724	0.39	225308	0.02	2000	
Ti	47	2	He	159.727	159.727	0.79	22846	0.70	2000	
Cu	63	1	No Gas	56.541	56.541	1.94	362489	0.02	2000	
Zn	66	1	No Gas	53.255	53.255	3.37	93679	0.06	2000	
Se	82	1	No Gas	51.672	51.672	3.05	4798	1.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	548540	0.73	547648	100.16	70	120	
Ge	72	2	He	535874	1.69	503154	106.50	70	120	
Ge	72	1	No Gas	1384098	2.63	1347493	102.72	70	120	
In	115	1	No Gas	1177611	0.90	1132392	103.99	70	120	
Bi	209	1	No Gas	916533	2.18	923104	99.29	70	120	

Sample Report

Sample Table

Sample Name HS23010489-02MSD
 Data File Name 036SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:55:29-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	133.355	133.355	2.60	1007115	0.01	2000	
Be	9	1	No Gas	53.764	53.764	4.88	97107	0.06	2000	
V	51	2	He	53.278	53.278	0.86	190226	0.03	2000	
Cr	52	2	He	385.691	385.691	1.53	1524905	0.03	2000	
Fe	56	2	He	8454.387	8454.387	1.19	30052327	0.03	200000	
Se	78	2	He	50.739	50.739	0.67	3574	1.42	2000	
As	75	2	He	53.713	53.713	0.56	33870	0.16	2000	
Ca	44	2	He	89226.839	89226.839	1.53	2300588	3.88	200000	
Na	23	2	He	365171.771	365171.771	0.65	235418003	0.16	200000	>LDR
Mg	24	2	He	30876.189	30876.189	0.79	12122780	0.25	200000	
K	39	2	He	7117.117	7117.117	0.74	3594468	0.20	200000	
Mn	55	2	He	194.853	194.853	0.94	602280	0.03	2000	
Co	59	2	He	55.743	55.743	0.65	316463	0.02	2000	
Ni	60	2	He	453.709	453.709	1.05	663048	0.07	2000	
Cu	63	2	He	56.436	56.436	0.67	222243	0.03	2000	
Zn	66	2	He	54.811	54.811	1.56	45162	0.12	2000	
Al	27	2	He	117.682	117.682	2.40	30073	0.39	2000	
B	11	1	No Gas	618.264	618.264	3.02	518579	0.12	2000	
Al	27	1	No Gas	116.290	116.290	5.49	823680	0.01	2000	
Si	28	1	No Gas	22295.977	22295.977	1.70	72084816	0.03	2000	>LDR
Ag	107	1	No Gas	48.966	48.966	1.94	368909	0.01	2000	
Cd	111	1	No Gas	51.077	51.077	2.19	75345	0.07	2000	
Sr	88	1	No Gas	1372.609	1372.609	4.71	18940832	0.01	2000	
Mo	95	1	No Gas	84.195	84.195	4.20	234797	0.04	2000	
Sn	118	1	No Gas	114.662	114.662	2.00	491006	0.02	2000	
Sb	121	1	No Gas	50.207	50.207	0.35	321008	0.02	2000	
Ba	137	1	No Gas	914.953	914.953	1.70	1952043	0.05	2000	
Tl	205	1	No Gas	44.062	44.062	4.70	496009	0.01	2000	
Tl	203	1	No Gas	43.965	43.965	4.57	204904	0.02	2000	
Pb	208	1	No Gas	50.949	50.949	1.87	836572	0.01	2000	
U	238	1	No Gas	117.065	117.065	2.63	1931995	0.01	2000	
Ca	43	2	He	91236.165	91236.165	1.04	137621	66.30	200000	
Sb	121	2	He	51.169	51.169	0.07	219844	0.02	2000	
Ti	47	2	He	170.174	170.174	0.19	24005	0.71	2000	
Cu	63	1	No Gas	56.618	56.618	1.60	357853	0.02	2000	
Zn	66	1	No Gas	54.708	54.708	1.46	94874	0.06	2000	
Se	82	1	No Gas	51.078	51.078	3.71	4678	1.09	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	547939	3.18	547648	100.05	70	120	
Ge	72	2	He	528512	2.51	503154	105.04	70	120	
Ge	72	1	No Gas	1364285	1.82	1347493	101.25	70	120	
In	115	1	No Gas	1151399	3.37	1132392	101.68	70	120	
Bi	209	1	No Gas	892703	2.37	923104	96.71	70	120	

Sample Report

Sample Table

Sample Name HS23010489-02PDS
 Data File Name 037SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:57:28-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	25.066	25.066	1.31	217020	0.01	2000	
Be	9	1	No Gas	102.468	102.468	1.03	187323	0.05	2000	
V	51	2	He	103.420	103.420	0.87	369352	0.03	2000	
Cr	52	2	He	440.196	440.196	0.54	1751990	0.03	2000	
Fe	56	2	He	13244.126	13244.126	0.81	47386246	0.03	200000	
Se	78	2	He	99.423	99.423	2.76	6579	1.51	2000	
As	75	2	He	106.018	106.018	0.85	67160	0.16	2000	
Ca	44	2	He	92629.257	92629.257	1.59	2404865	3.85	200000	
Na	23	2	He	363207.745	363207.745	1.22	235742423	0.15	200000	>LDR
Mg	24	2	He	35402.109	35402.109	1.59	13991255	0.25	200000	
K	39	2	He	11945.582	11945.582	0.50	5991859	0.20	200000	
Mn	55	2	He	241.865	241.865	0.45	752582	0.03	2000	
Co	59	2	He	105.491	105.491	1.35	602894	0.02	2000	
Ni	60	2	He	500.158	500.158	0.98	735851	0.07	2000	
Cu	63	2	He	104.746	104.746	0.63	413832	0.03	2000	
Zn	66	2	He	103.163	103.163	0.72	84849	0.12	2000	
Al	27	2	He	114.751	114.751	1.92	29548	0.39	2000	
B	11	1	No Gas	56.476	56.476	4.86	52635	0.11	2000	
Al	27	1	No Gas	115.095	115.095	0.99	813246	0.01	2000	
Si	28	1	No Gas	20748.262	20748.262	1.50	66886391	0.03	2000	>LDR
Ag	107	1	No Gas	98.111	98.111	0.95	716117	0.01	2000	
Cd	111	1	No Gas	102.584	102.584	0.44	146657	0.07	2000	
Sr	88	1	No Gas	1225.215	1225.215	0.39	16394082	0.01	2000	
Mo	95	1	No Gas	135.095	135.095	0.38	365281	0.04	2000	
Sn	118	1	No Gas	0.565	0.565	2.38	3130	0.02	2000	
Sb	121	1	No Gas	95.745	95.745	1.37	609845	0.02	2000	
Ba	137	1	No Gas	953.363	953.363	2.16	1970905	0.05	2000	
Tl	205	1	No Gas	97.992	97.992	0.44	1087600	0.01	2000	
Tl	203	1	No Gas	98.564	98.564	0.36	452902	0.02	2000	
Pb	208	1	No Gas	98.842	98.842	0.63	1599297	0.01	2000	
U	238	1	No Gas	3.981	3.981	1.65	64739	0.01	2000	
Ca	43	2	He	93578.163	93578.163	2.23	142115	65.85	200000	
Sb	121	2	He	101.192	101.192	0.08	437432	0.02	2000	
Ti	47	2	He	105.385	105.385	1.94	14968	0.70	2000	
Cu	63	1	No Gas	103.393	103.393	0.41	649234	0.02	2000	
Zn	66	1	No Gas	101.754	101.754	0.50	174405	0.06	2000	
Se	82	1	No Gas	98.078	98.078	1.31	8932	1.10	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	554107	1.37	547648	101.18	70	120	
Ge	72	2	He	532033	0.39	503154	105.74	70	120	
Ge	72	1	No Gas	1359864	1.13	1347493	100.92	70	120	
In	115	1	No Gas	1115461	1.23	1132392	98.50	70	120	
Bi	209	1	No Gas	879657	0.36	923104	95.29	70	120	



Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 041_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:06:39-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.974	1.611	742887	0.43	100	101.0	90	110	
Be	9	1	No Gas	99.558	1.973	173571	0.70	100	99.6	90	110	
V	51	2	He	99.190	0.187	333792	0.27	100	99.2	90	110	
Cr	52	2	He	99.216	0.504	373551	0.30	100	99.2	90	110	
Fe	56	2	He	9903.728	0.167	33385295	0.31	10000	99.0	90	110	
Se	78	2	He	97.533	1.720	6088	1.34	100	97.5	90	110	
As	75	2	He	101.512	0.396	60580	0.14	100	101.5	90	110	
Ca	44	2	He	9915.555	0.365	243389	0.51	10000	99.2	90	110	
Na	23	2	He	9967.175	1.193	6191835	1.37	10000	99.7	90	110	
Mg	24	2	He	10129.450	1.228	3771137	1.16	10000	101.3	90	110	
K	39	2	He	10072.550	0.399	4777005	0.35	10000	100.7	90	110	
Mn	55	2	He	100.182	0.625	293874	0.84	100	100.2	90	110	
Co	59	2	He	101.074	0.460	544133	0.29	100	101.1	90	110	
Ni	60	2	He	99.866	0.752	138477	0.65	100	99.9	90	110	
Cu	63	2	He	98.787	0.371	367735	0.57	100	98.8	90	110	
Zn	66	2	He	103.312	1.431	80042	1.43	100	103.3	90	110	
Al	27	2	He	101.084	3.367	24602	3.18	100	101.1	90	110	
B	11	1	No Gas	503.195	1.152	408249	2.20	500	100.6	90	110	
Al	27	1	No Gas	104.367	1.255	693113	1.27	100	104.4	90	110	
Si	28	1	No Gas	546.223	3.334	1883969	2.60	5000	10.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.574	0.652	694562	1.51	100	98.6	90	110	
Cd	111	1	No Gas	100.625	1.836	138838	0.85	100	100.6	90	110	
Sr	88	1	No Gas	102.395	2.763	1322730	2.52	100	102.4	90	110	
Mo	95	1	No Gas	99.162	1.169	258813	1.14	100	99.2	90	110	
Sn	118	1	No Gas	100.397	0.645	402289	1.33	100	100.4	90	110	
Sb	121	1	No Gas	95.482	1.694	570195	1.21	100	95.5	90	110	
Ba	137	1	No Gas	100.436	0.792	200653	1.67	100	100.4	90	110	
Tl	205	1	No Gas	100.759	1.862	1109034	1.61	100	100.8	90	110	
Tl	203	1	No Gas	101.439	1.452	462253	1.47	100	101.4	90	110	
Pb	208	1	No Gas	94.447	1.417	1515540	1.47	100	94.4	90	110	
U	238	1	No Gas	100.486	0.638	1620137	0.34	100	100.5	90	110	
Ca	43	2	He	10041.043	1.875	14421	1.81	10000	100.4	90	110	
Sb	121	2	He	98.568	0.403	401382	0.68	100	98.6	90	110	
Ti	47	2	He	100.271	1.523	13417	1.81	100	100.3	90	110	
Cu	63	1	No Gas	97.825	1.844	576040	1.38	100	97.8	90	110	
Se	82	1	No Gas	99.523	3.322	8499	3.89	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	528494	1.39	547648	96.50	70	120	
Ge	72	2	He	501173	0.29	503154	99.61	70	120	
Ge	72	1	No Gas	1274991	0.70	1347493	94.62	70	120	
In	115	1	No Gas	1076762	1.68	1132392	95.09	70	120	
Bi	209	1	No Gas	872382	0.48	923104	94.51	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 042_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:08:31-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.324	36.0	32282	2.4	0.5	
Be	9	1	No Gas	0.014	44.2	32	32.9	0.5	
V	51	2	He	0.075	30.4	2560	2.4	2.5	
Cr	52	2	He	0.251	5.7	2857	2.0	2.5	
Fe	56	2	He	1.894	6.5	28236	1.8	100	
Se	78	2	He	0.630	57.7	477	4.6	2	
As	75	2	He	0.131	51.1	204	19.3	2.5	
Ca	44	2	He	-4.185	-146.4	867	17.1	100	
Na	23	2	He	49.190	1.2	125255	0.5	100	
Mg	24	2	He	0.649	65.1	543	27.6	100	
K	39	2	He	13.415	14.3	114241	1.2	100	
Mn	55	2	He	0.194	3.2	913	2.3	2.5	
Co	59	2	He	-0.002	-170.2	50	34.6	2.5	
Ni	60	2	He	0.139	19.1	277	12.7	2.5	
Cu	63	2	He	0.191	39.1	2140	13.0	2	
Zn	66	2	He	-0.066	-170.8	670	12.2	2.5	
Al	27	2	He	0.240	226.9	720	17.7	5	
B	11	1	No Gas	36.319	10.6	34043	8.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.507	25.6	20916	3.0	5	
Si	28	1	No Gas	10.407	5.4	267609	0.9	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.010	90.4	297	20.3	2.5	
Cd	111	1	No Gas	0.003	164.2	7	86.6	1	
Sr	88	1	No Gas	0.015	67.7	543	23.0	2.5	
Mo	95	1	No Gas	0.064	9.4	203	7.5	2.5	
Sn	118	1	No Gas	0.704	8.5	3591	5.9	5	
Sb	121	1	No Gas	0.122	26.8	1057	18.3	2.5	
Ba	137	1	No Gas	-0.055	-17.9	107	19.5	2.5	
Tl	205	1	No Gas	0.120	48.1	1377	47.2	1	
Tl	203	1	No Gas	0.129	61.2	620	59.2	1	
Pb	208	1	No Gas	0.026	28.6	813	15.0	2.5	
U	238	1	No Gas	0.006	100.9	110	86.7	2.5	
Ca	43	2	He	-10.282	-145.5	47	44.6	100	
Sb	121	2	He	0.092	13.4	567	8.7	2.5	
Ti	47	2	He	0.057	288.5	17	124.9	2.5	
Cu	63	1	No Gas	0.242	1.8	3857	1.5	2.5	
Se	82	1	No Gas	0.271	638.4	42	343.6	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	528158	0.23	547648	96.44	70	120	
Ge	72	2	He	480339	0.56	503154	95.47	70	120	
Ge	72	1	No Gas	1260748	0.99	1347493	93.56	70	120	
In	115	1	No Gas	1081454	0.95	1132392	95.50	70	120	
Bi	209	1	No Gas	883741	1.01	923104	95.74	70	120	



Sample Report

Sample Table

Sample Name HS23010587-02
 Data File Name 050SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:23:44-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	160.044	160.044	2.31	1253320	0.01	2000	
Be	9	1	No Gas	0.176	0.176	7.55	340	0.05	2000	
V	51	2	He	0.446	0.446	2.39	4221	0.01	2000	
Cr	52	2	He	0.534	0.534	3.10	4357	0.01	2000	
Fe	56	2	He	2877.499	2877.499	1.56	10488054	0.03	200000	
Se	78	2	He	-0.078	-0.078	-561.68	493	-0.02	2000	
As	75	2	He	0.920	0.920	13.70	737	0.12	2000	
Ca	44	2	He	280052.635	280052.635	0.61	7390890	3.79	200000	>LDR
Na	23	2	He	770431.370	770431.370	1.36	508311126	0.15	200000	>LDR
Mg	24	2	He	143498.181	143498.181	1.73	57660527	0.25	200000	
K	39	2	He	1009.029	1009.029	0.48	626287	0.16	200000	
Mn	55	2	He	2169.079	2169.079	0.65	6859724	0.03	2000	>LDR
Co	59	2	He	0.414	0.414	5.84	2474	0.02	2000	
Ni	60	2	He	1.134	1.134	5.00	1800	0.06	2000	
Cu	63	2	He	1.001	1.001	7.05	5651	0.02	2000	
Zn	66	2	He	4.819	4.819	6.93	4801	0.10	2000	
Al	27	2	He	36.326	36.326	1.01	10024	0.36	2000	
B	11	1	No Gas	40.145	40.145	1.13	40119	0.10	2000	
Al	27	1	No Gas	36.402	36.402	0.89	280834	0.01	2000	
Si	28	1	No Gas	18420.498	18420.498	1.38	61736254	0.03	2000	>LDR
Ag	107	1	No Gas	-0.017	-0.017	-11.93	113	-0.02	2000	
Cd	111	1	No Gas	0.083	0.083	75.66	123	0.07	2000	
Sr	88	1	No Gas	6914.306	6914.306	1.95	94097439	0.01	2000	>LDR
Mo	95	1	No Gas	0.476	0.476	11.50	1347	0.04	2000	
Sn	118	1	No Gas	0.099	0.099	13.23	1217	0.01	2000	
Sb	121	1	No Gas	0.100	0.100	9.42	1040	0.01	2000	
Ba	137	1	No Gas	39.708	39.708	0.66	83723	0.05	2000	
Tl	205	1	No Gas	0.005	0.005	88.16	93	0.01	2000	
Tl	203	1	No Gas	0.003	0.003	0.73	40	0.01	2000	
Pb	208	1	No Gas	0.146	0.146	0.73	2680	0.01	2000	
U	238	1	No Gas	21.531	21.531	1.40	341173	0.01	2000	
Ca	43	2	He	296618.056	296618.056	0.72	457899	64.78	200000	>LDR
Sb	121	2	He	0.103	0.103	2.89	687	0.02	2000	
Ti	47	2	He	1.127	1.127	12.42	173	0.65	2000	
Cu	63	1	No Gas	4.315	4.315	2.36	30785	0.01	2000	
Zn	66	1	No Gas	5.399	5.399	2.70	11278	0.05	2000	
Se	82	1	No Gas	1.741	1.741	41.50	186	0.94	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	570972	0.06	547648	104.26	70	120	
Ge	72	2	He	540981	0.96	503154	107.52	70	120	
Ge	72	1	No Gas	1413159	1.61	1347493	104.87	70	120	
In	115	1	No Gas	1134509	0.08	1132392	100.19	70	120	
Bi	209	1	No Gas	857326	0.28	923104	92.87	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 053_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:31:57-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	102.347	1.904	787216	1.84	100	102.3	90	110	
Be	9	1	No Gas	101.389	0.471	184910	1.08	100	101.4	90	110	
V	51	2	He	99.535	0.556	349672	0.32	100	99.5	90	110	
Cr	52	2	He	98.355	0.823	386609	0.16	100	98.4	90	110	
Fe	56	2	He	10011.928	1.102	35232802	0.36	10000	100.1	90	110	
Se	78	2	He	101.912	2.967	6619	2.09	100	101.9	90	110	
As	75	2	He	100.172	1.550	62408	0.82	100	100.2	90	110	
Ca	44	2	He	10081.359	1.695	258306	0.93	10000	100.8	90	110	
Na	23	2	He	10550.264	0.711	6836288	1.22	10000	105.5	90	110	
Mg	24	2	He	10328.836	1.884	4014242	1.26	10000	103.3	90	110	
K	39	2	He	10414.667	1.420	5152231	0.63	10000	104.1	90	110	
Mn	55	2	He	100.031	0.857	306327	0.12	100	100.0	90	110	
Co	59	2	He	99.811	0.698	560962	0.09	100	99.8	90	110	
Ni	60	2	He	99.770	1.136	144425	0.42	100	99.8	90	110	
Cu	63	2	He	98.194	1.308	381594	0.56	100	98.2	90	110	
Zn	66	2	He	102.119	0.913	82611	1.48	100	102.1	90	110	
Al	27	2	He	103.842	2.964	26362	2.14	100	103.8	90	110	
B	11	1	No Gas	493.198	2.442	418667	3.52	500	98.6	90	110	
Al	27	1	No Gas	105.453	2.554	730899	1.00	100	105.5	90	110	
Si	28	1	No Gas	540.344	5.197	1947693	2.20	5000	10.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.198	0.117	700243	1.43	100	99.2	90	110	
Cd	111	1	No Gas	99.903	0.603	138120	1.81	100	99.9	90	110	
Sr	88	1	No Gas	105.096	1.500	1360412	2.78	100	105.1	90	110	
Mo	95	1	No Gas	100.292	0.805	262275	2.11	100	100.3	90	110	
Sn	118	1	No Gas	99.747	1.033	400390	0.31	100	99.7	90	110	
Sb	121	1	No Gas	91.261	2.260	569047	1.90	100	91.3	90	110	
Ba	137	1	No Gas	99.570	1.888	199287	2.31	100	99.6	90	110	
Tl	205	1	No Gas	100.451	0.686	1088065	1.54	100	100.5	90	110	
Tl	203	1	No Gas	100.946	1.729	452684	2.29	100	100.9	90	110	
Pb	208	1	No Gas	94.587	1.182	1493652	2.06	100	94.6	90	110	
U	238	1	No Gas	99.422	2.430	1577225	1.70	100	99.4	90	110	
Ca	43	2	He	10124.475	3.071	15179	2.59	10000	101.2	90	110	
Sb	121	2	He	96.244	0.488	409159	0.44	100	96.2	90	110	
Ti	47	2	He	102.687	0.921	14344	1.59	100	102.7	90	110	
Cu	63	1	No Gas	96.529	2.602	593447	1.19	100	96.5	90	110	
Se	82	1	No Gas	94.973	1.783	8469	2.06	100	95.0	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	552765	1.18	547648	100.93	70	120	
Ge	72	2	He	523224	0.76	503154	103.99	70	120	
Ge	72	1	No Gas	1331653	3.09	1347493	98.82	70	120	
In	115	1	No Gas	1078697	1.33	1132392	95.26	70	120	
Bi	209	1	No Gas	858455	0.94	923104	93.00	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 054_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:33:49-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.308	12.3	34038	1.1	0.5	
Be	9	1	No Gas	-0.001	-316.2	7	86.6	0.5	
V	51	2	He	0.358	15.4	3654	4.0	2.5	
Cr	52	2	He	0.214	22.2	2870	6.6	2.5	
Fe	56	2	He	2.464	1.3	31714	1.4	100	
Se	78	2	He	0.401	111.6	490	5.9	2	
As	75	2	He	0.191	33.3	251	14.7	2.5	
Ca	44	2	He	-5.035	-112.9	893	16.8	100	
Na	23	2	He	292.246	2.1	282157	0.7	100	CCB Main CR1 Failed
Mg	24	2	He	1.394	8.8	853	5.9	100	
K	39	2	He	24.241	9.7	125514	0.2	100	
Mn	55	2	He	0.155	11.8	850	7.3	2.5	
Co	59	2	He	-0.006	-30.7	30	33.3	2.5	
Ni	60	2	He	0.133	35.9	283	22.7	2.5	
Cu	63	2	He	0.116	24.7	1977	4.5	2	
Zn	66	2	He	0.015	1639.0	770	24.8	2.5	
Al	27	2	He	0.278	211.6	767	17.2	5	
B	11	1	No Gas	28.682	12.5	29545	10.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.479	24.2	21814	2.7	5	
Si	28	1	No Gas	8.188	14.6	274493	0.3	10	
Ag	107	1	No Gas	0.013	48.0	327	12.7	2.5	
Cd	111	1	No Gas	0.002	167.3	7	86.6	1	
Sr	88	1	No Gas	0.038	30.0	853	17.6	2.5	
Mo	95	1	No Gas	0.050	50.1	167	38.1	2.5	
Sn	118	1	No Gas	0.494	4.6	2784	2.4	5	
Sb	121	1	No Gas	0.099	21.2	970	12.7	2.5	
Ba	137	1	No Gas	-0.051	-5.6	117	4.9	2.5	
Tl	205	1	No Gas	0.116	48.3	1320	46.4	1	
Tl	203	1	No Gas	0.113	55.3	543	52.2	1	
Pb	208	1	No Gas	0.016	15.8	637	5.9	2.5	
U	238	1	No Gas	0.006	24.3	113	20.4	2.5	
Ca	43	2	He	-18.927	-20.1	37	15.7	100	
Sb	121	2	He	0.094	18.6	603	10.8	2.5	
Ti	47	2	He	0.099	86.5	23	49.5	2.5	
Cu	63	1	No Gas	0.498	7.4	5618	4.0	2.5	
Se	82	1	No Gas	0.702	80.8	83	60.1	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	558777	0.34	547648	102.03	70	120	
Ge	72	2	He	506481	1.10	503154	100.66	70	120	
Ge	72	1	No Gas	1326065	1.36	1347493	98.41	70	120	
In	115	1	No Gas	1096407	1.51	1132392	96.82	70	120	
Bi	209	1	No Gas	876829	0.77	923104	94.99	70	120	



Sample Report

Sample Table

Sample Name HS23010489-02SD
 Data File Name 059SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:01:06-06:00
 Sample Type Sample
 Dilution 50
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Pass
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.515	25.771	12.25	36071	0.00	2000	
Be	9	1	No Gas	-0.003	-0.141	-54.84	3	-0.08	2000	
V	51	2	He	0.932	46.593	3.60	5738	0.02	2000	
Cr	52	2	He	7.140	357.016	3.04	29836	0.02	2000	
Fe	56	2	He	69.371	3468.571	0.23	266271	0.03	200000	
Se	78	2	He	0.015	0.741	5213.32	479	0.00	2000	
As	75	2	He	0.270	13.502	24.18	307	0.09	2000	
Ca	44	2	He	1615.957	80797.865	2.50	42008	3.85	200000	
Na	23	2	He	7290.679	364533.973	0.86	4724482	0.15	200000	
Mg	24	2	He	530.429	26521.467	1.39	205088	0.26	200000	
K	39	2	He	41.156	2057.790	9.67	136932	0.03	200000	
Mn	55	2	He	2.991	149.565	2.46	9487	0.03	2000	
Co	59	2	He	0.088	4.403	8.10	557	0.02	2000	
Ni	60	2	He	8.007	400.373	4.02	11605	0.07	2000	
Cu	63	2	He	0.210	10.516	15.14	2390	0.01	2000	
Zn	66	2	He	0.765	38.268	27.84	1387	0.06	2000	
Al	27	2	He	1.139	56.960	48.12	1000	0.11	2000	
B	11	1	No Gas	5.429	271.459	3.86	9980	0.05	2000	
Al	27	1	No Gas	1.511	75.572	5.64	29198	0.01	2000	
Si	28	1	No Gas	439.311	21965.551	1.03	1649121	0.03	2000	
Ag	107	1	No Gas	0.005	0.247	62.00	273	0.00	2000	
Cd	111	1	No Gas	0.000	0.003	5975.86	3	0.00	2000	
Sr	88	1	No Gas	23.597	1179.840	1.59	316957	0.01	2000	
Mo	95	1	No Gas	0.616	30.814	12.59	1707	0.04	2000	
Sn	118	1	No Gas	0.282	14.124	14.94	1964	0.01	2000	
Sb	121	1	No Gas	0.057	2.858	24.64	720	0.01	2000	
Ba	137	1	No Gas	15.638	781.897	1.71	32648	0.05	2000	
Tl	205	1	No Gas	0.002	0.106	25.45	63	0.00	2000	
Tl	203	1	No Gas	-0.001	-0.065	-163.15	20	-0.01	2000	
Pb	208	1	No Gas	0.005	0.233	59.17	470	0.00	2000	
U	238	1	No Gas	0.069	3.446	5.07	1170	0.01	2000	
Ca	43	2	He	1783.483	89174.165	1.29	2710	65.80	200000	
Sb	121	2	He	0.047	2.326	21.60	420	0.01	2000	
Ti	47	2	He	0.069	3.469	178.96	20	0.35	2000	
Cu	63	1	No Gas	0.348	17.393	14.67	4771	0.01	2000	
Zn	66	1	No Gas	0.780	38.988	17.58	2980	0.03	2000	
Se	82	1	No Gas	-0.427	-21.362	-278.66	-17	2.50	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	566410	0.15	547648	103.43	70	120	
Ge	72	2	He	519726	1.06	503154	103.29	70	120	
Ge	72	1	No Gas	1346012	0.78	1347493	99.89	70	120	
In	115	1	No Gas	1118554	1.07	1132392	98.78	70	120	



Sample Report

Bi	209	1	No Gas	905832	0.92	923104	98.13	70	120	
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Sample Report

Sample Table

Sample Name HS23010489-02PDS
 Data File Name 060SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:03:00-06:00
 Sample Type Sample
 Dilution 10
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.474	24.737	1.97	51196	0.00	2000	
Be	9	1	No Gas	99.682	996.819	1.53	187402	0.05	2000	
V	51	2	He	101.364	1013.637	0.20	352430	0.03	2000	
Cr	52	2	He	136.470	1364.703	0.71	530161	0.03	2000	
Fe	56	2	He	10391.921	103919.205	0.16	36198206	0.03	200000	
Se	78	2	He	101.473	1014.732	3.51	6526	1.56	2000	
As	75	2	He	100.914	1009.137	1.15	62233	0.16	2000	
Ca	44	2	He	17944.922	179449.215	0.71	454316	3.95	200000	
Na	23	2	He	45983.126	459831.265	0.54	29142033	0.16	200000	
Mg	24	2	He	12716.825	127168.247	0.75	4892153	0.26	200000	
K	39	2	He	10423.452	104234.523	1.59	5103945	0.20	200000	
Mn	55	2	He	115.009	1150.089	0.61	348554	0.03	2000	
Co	59	2	He	102.203	1022.027	1.22	568552	0.02	2000	
Ni	60	2	He	138.380	1383.796	0.88	198240	0.07	2000	
Cu	63	2	He	99.388	993.877	1.16	382298	0.03	2000	
Zn	66	2	He	101.341	1013.411	0.85	81152	0.12	2000	
Al	27	2	He	103.483	1034.831	1.68	26011	0.40	2000	
B	11	1	No Gas	6.758	67.585	2.32	11190	0.06	2000	
Al	27	1	No Gas	100.567	1005.674	1.71	724467	0.01	2000	
Si	28	1	No Gas	2017.956	20179.557	2.71	6843482	0.03	2000	>LDR
Ag	107	1	No Gas	98.877	988.768	0.40	732293	0.01	2000	
Cd	111	1	No Gas	100.028	1000.278	0.38	145086	0.07	2000	
Sr	88	1	No Gas	123.549	1235.489	2.08	1677674	0.01	2000	
Mo	95	1	No Gas	103.903	1039.030	1.17	285049	0.04	2000	
Sn	118	1	No Gas	0.250	2.500	7.90	1850	0.01	2000	
Sb	121	1	No Gas	91.118	911.177	1.60	589720	0.02	2000	
Ba	137	1	No Gas	177.822	1778.216	0.78	373224	0.05	2000	
Tl	205	1	No Gas	103.615	1036.150	0.73	1185213	0.01	2000	
Tl	203	1	No Gas	104.065	1040.646	1.51	492777	0.02	2000	
Pb	208	1	No Gas	95.681	956.812	1.45	1595509	0.01	2000	
U	238	1	No Gas	0.366	3.664	1.90	6155	0.01	2000	
Ca	43	2	He	18059.647	180596.472	2.27	26750	67.51	200000	
Sb	121	2	He	97.570	975.703	1.28	410559	0.02	2000	
Ti	47	2	He	103.460	1034.602	1.85	14304	0.72	2000	
Cu	63	1	No Gas	96.215	962.149	1.49	614058	0.02	2000	
Zn	66	1	No Gas	96.888	968.879	1.71	168818	0.06	2000	
Se	82	1	No Gas	94.726	947.261	1.80	8766	1.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	569829	0.53	547648	104.05	70	120	
Ge	72	2	He	517891	0.64	503154	102.93	70	120	
Ge	72	1	No Gas	1381934	1.80	1347493	102.56	70	120	
In	115	1	No Gas	1131735	0.41	1132392	99.94	70	120	



Sample Report

Bi	209	1	No Gas	906595	0.89	923104	98.21	70	120	
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Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 062_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:06:46-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	102.198	3.526	807325	2.82	100	102.2	90	110	
Be	9	1	No Gas	98.499	0.934	184500	0.74	100	98.5	90	110	
V	51	2	He	99.091	0.397	358555	0.80	100	99.1	90	110	
Cr	52	2	He	99.409	0.645	402437	0.84	100	99.4	90	110	
Fe	56	2	He	10018.561	0.887	36313575	1.20	10000	100.2	90	110	
Se	78	2	He	98.100	2.968	6581	2.40	100	98.1	90	110	
As	75	2	He	99.676	1.429	63965	1.84	100	99.7	90	110	
Ca	44	2	He	9937.924	1.282	262285	1.23	10000	99.4	90	110	
Na	23	2	He	10252.316	0.895	6845099	1.27	10000	102.5	90	110	
Mg	24	2	He	10265.660	0.446	4109461	0.86	10000	102.7	90	110	
K	39	2	He	10151.130	0.550	5175621	0.95	10000	101.5	90	110	
Mn	55	2	He	100.481	0.784	316929	1.17	100	100.5	90	110	
Co	59	2	He	100.540	0.645	581994	1.03	100	100.5	90	110	
Ni	60	2	He	98.832	0.277	147357	0.69	100	98.8	90	110	
Cu	63	2	He	98.429	0.336	393973	0.56	100	98.4	90	110	
Zn	66	2	He	101.253	0.023	84365	0.40	100	101.3	90	110	
Al	27	2	He	105.469	3.228	27571	3.56	100	105.5	90	110	
B	11	1	No Gas	483.361	1.839	421553	3.27	500	96.7	90	110	
Al	27	1	No Gas	104.682	1.810	746332	0.58	100	104.7	90	110	
Si	28	1	No Gas	520.442	1.955	1939462	0.37	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.311	1.830	734595	1.18	100	98.3	90	110	
Cd	111	1	No Gas	100.161	1.362	146587	1.42	100	100.2	90	110	
Sr	88	1	No Gas	104.050	2.249	1425466	1.28	100	104.1	90	110	
Mo	95	1	No Gas	98.945	2.190	273857	0.54	100	98.9	90	110	
Sn	118	1	No Gas	99.177	1.545	421480	1.69	100	99.2	90	110	
Sb	121	1	No Gas	93.093	0.987	596979	1.41	100	93.1	90	110	
Ba	137	1	No Gas	99.586	2.362	210982	1.80	100	99.6	90	110	
Tl	205	1	No Gas	101.821	0.846	1174086	0.63	100	101.8	90	110	
Tl	203	1	No Gas	102.422	1.004	488938	0.58	100	102.4	90	110	
Pb	208	1	No Gas	95.952	0.786	1612988	0.96	100	96.0	90	110	
U	238	1	No Gas	101.881	2.660	1720743	2.29	100	101.9	90	110	
Ca	43	2	He	9882.837	6.093	15265	6.47	10000	98.8	90	110	
Sb	121	2	He	97.158	0.780	425417	1.17	100	97.2	90	110	
Ti	47	2	He	100.674	2.802	14485	3.20	100	100.7	90	110	
Cu	63	1	No Gas	95.942	0.795	606715	1.37	100	95.9	90	110	
Se	82	1	No Gas	97.777	3.537	8963	2.18	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	567767	1.61	547648	103.67	70	120	
Ge	72	2	He	538878	0.41	503154	107.10	70	120	
Ge	72	1	No Gas	1369128	1.80	1347493	101.61	70	120	
In	115	1	No Gas	1142144	2.47	1132392	100.86	70	120	
Bi	209	1	No Gas	913934	1.00	923104	99.01	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 063_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:08:38-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.049	99.0	31920	1.5	0.5	
Be	9	1	No Gas	0.002	178.9	12	49.5	0.5	
V	51	2	He	0.064	22.4	2668	1.4	2.5	
Cr	52	2	He	0.279	13.7	3124	5.3	2.5	
Fe	56	2	He	1.895	4.8	29856	1.9	100	
Se	78	2	He	0.611	50.0	503	2.8	2	
As	75	2	He	0.112	11.6	204	4.1	2.5	
Ca	44	2	He	-7.506	-68.5	833	15.2	100	
Na	23	2	He	99.183	1.8	163361	0.7	100	
Mg	24	2	He	0.768	45.1	620	21.7	100	
K	39	2	He	7.174	11.5	117841	1.4	100	
Mn	55	2	He	0.101	32.8	690	15.3	2.5	
Co	59	2	He	-0.003	-36.2	47	12.4	2.5	
Ni	60	2	He	0.120	48.5	267	31.5	2.5	
Cu	63	2	He	0.085	42.2	1867	8.3	2	
Zn	66	2	He	0.005	2531.0	763	13.2	2.5	
Al	27	2	He	0.197	90.0	750	4.8	5	
B	11	1	No Gas	26.441	16.8	27462	12.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.468	8.3	21958	1.9	5	
Si	28	1	No Gas	0.356	671.3	252345	0.9	10	
Ag	107	1	No Gas	0.007	78.8	287	12.3	2.5	
Cd	111	1	No Gas	0.005	147.7	10	100.0	1	
Sr	88	1	No Gas	0.008	7.4	473	2.4	2.5	
Mo	95	1	No Gas	0.064	41.7	210	33.3	2.5	
Sn	118	1	No Gas	0.517	17.8	2934	12.0	5	
Sb	121	1	No Gas	0.114	21.0	1073	11.8	2.5	
Ba	137	1	No Gas	-0.020	-112.5	183	26.9	2.5	
Tl	205	1	No Gas	0.118	55.4	1377	53.3	1	
Tl	203	1	No Gas	0.114	50.4	563	47.5	1	
Pb	208	1	No Gas	0.028	11.7	857	6.0	2.5	
U	238	1	No Gas	0.008	50.7	147	44.4	2.5	
Ca	43	2	He	-25.846	-16.0	27	21.7	100	
Sb	121	2	He	0.093	11.4	603	6.3	2.5	
Ti	47	2	He	0.122	124.0	27	78.1	2.5	
Cu	63	1	No Gas	0.160	22.1	3591	6.1	2.5	
Se	82	1	No Gas	-0.581	-20.6	-31	-37.5	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	555587	1.23	547648	101.45	70	120	
Ge	72	2	He	507786	1.10	503154	100.92	70	120	
Ge	72	1	No Gas	1339318	3.15	1347493	99.39	70	120	
In	115	1	No Gas	1118032	1.53	1132392	98.73	70	120	
Bi	209	1	No Gas	902572	1.65	923104	97.78	70	120	



Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 073_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:27:32-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.879	2.734	760603	2.66	100	96.9	90	110	
Be	9	1	No Gas	97.058	0.612	180270	0.75	100	97.1	90	110	
V	51	2	He	96.709	1.601	343854	0.66	100	96.7	90	110	
Cr	52	2	He	96.503	1.213	383888	0.26	100	96.5	90	110	
Fe	56	2	He	9811.798	1.790	34940034	0.99	10000	98.1	90	110	
Se	78	2	He	94.673	1.846	6257	1.59	100	94.7	90	110	
As	75	2	He	96.133	0.561	60618	1.08	100	96.1	90	110	
Ca	44	2	He	9690.849	1.334	251310	0.39	10000	96.9	90	110	
Na	23	2	He	9897.395	1.904	6495835	1.35	10000	99.0	90	110	
Mg	24	2	He	10144.103	2.410	3989406	1.69	10000	101.4	90	110	
K	39	2	He	9834.384	1.866	4929732	0.85	10000	98.3	90	110	
Mn	55	2	He	96.644	1.715	299484	0.73	100	96.6	90	110	
Co	59	2	He	98.733	1.674	561503	0.86	100	98.7	90	110	
Ni	60	2	He	97.094	0.734	142235	0.29	100	97.1	90	110	
Cu	63	2	He	95.793	1.675	376745	1.12	100	95.8	90	110	
Zn	66	2	He	96.828	1.729	79298	1.06	100	96.8	90	110	
Al	27	2	He	94.530	3.903	24348	2.83	100	94.5	90	110	
B	11	1	No Gas	488.106	3.166	421950	3.20	500	97.6	90	110	
Al	27	1	No Gas	95.988	0.749	712127	0.96	100	96.0	90	110	
Si	28	1	No Gas	488.792	3.359	1907040	2.28	5000	9.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	94.484	1.922	726891	0.85	100	94.5	90	110	
Cd	111	1	No Gas	96.333	1.977	145144	0.96	100	96.3	90	110	
Sr	88	1	No Gas	99.031	2.001	1396922	1.11	100	99.0	90	110	
Mo	95	1	No Gas	96.567	1.879	275206	0.87	100	96.6	90	110	
Sn	118	1	No Gas	95.930	1.568	419764	1.37	100	95.9	90	110	
Sb	121	1	No Gas	88.342	1.482	588043	0.83	100	88.3	90	110	CCV Main CR1-2 Failed
Ba	137	1	No Gas	96.722	1.341	210997	0.68	100	96.7	90	110	
Tl	205	1	No Gas	98.163	1.148	1161041	0.49	100	98.2	90	110	
Tl	203	1	No Gas	99.066	0.917	485140	1.66	100	99.1	90	110	
Pb	208	1	No Gas	91.996	1.092	1586342	1.23	100	92.0	90	110	
U	238	1	No Gas	97.911	1.698	1696246	0.64	100	97.9	90	110	
Ca	43	2	He	9647.356	3.689	14638	2.91	10000	96.5	90	110	
Sb	121	2	He	94.257	1.399	405475	0.41	100	94.3	90	110	
Ti	47	2	He	101.215	3.369	14304	2.39	100	101.2	90	110	
Cu	63	1	No Gas	91.666	1.287	601820	0.91	100	91.7	90	110	
Se	82	1	No Gas	90.492	4.322	8616	4.71	100	90.5	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	562927	0.14	547648	102.79	70	120	
Ge	72	2	He	529479	1.00	503154	105.23	70	120	
Ge	72	1	No Gas	1421204	1.58	1347493	105.47	70	120	
In	115	1	No Gas	1175768	1.09	1132392	103.83	70	120	
Bi	209	1	No Gas	937502	1.33	923104	101.56	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 074_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:29:24-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.067	122.3	31031	1.7	0.5	
Be	9	1	No Gas	0.001	274.7	10	50.0	0.5	
V	51	2	He	0.090	10.3	2736	1.8	2.5	
Cr	52	2	He	0.188	35.3	2760	10.0	2.5	
Fe	56	2	He	0.957	16.3	26446	0.8	100	
Se	78	2	He	-0.153	-363.3	455	7.5	2	
As	75	2	He	0.093	43.4	191	11.4	2.5	
Ca	44	2	He	-7.975	-69.6	817	17.8	100	
Na	23	2	He	61.575	2.9	139006	0.6	100	
Mg	24	2	He	0.506	15.2	517	6.8	100	
K	39	2	He	-3.518	-152.8	111955	2.1	100	
Mn	55	2	He	0.127	14.8	763	7.7	2.5	
Co	59	2	He	0.006	123.9	97	41.8	2.5	
Ni	60	2	He	0.107	14.8	247	10.2	2.5	
Cu	63	2	He	0.038	78.9	1677	6.3	2	
Zn	66	2	He	-0.187	-20.3	610	5.7	2.5	
Al	27	2	He	-0.184	-245.2	653	15.3	5	
B	11	1	No Gas	23.741	14.4	24427	12.2	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.345	20.9	20632	0.2	5	
Si	28	1	No Gas	-2.822	-69.7	236770	0.0	10	
Ag	107	1	No Gas	0.000	2124.1	240	26.0	2.5	
Cd	111	1	No Gas	0.002	170.0	7	86.6	1	
Sr	88	1	No Gas	0.005	80.6	427	11.6	2.5	
Mo	95	1	No Gas	0.046	13.9	160	10.8	2.5	
Sn	118	1	No Gas	0.500	8.8	2864	6.5	5	
Sb	121	1	No Gas	0.172	14.5	1407	12.6	2.5	
Ba	137	1	No Gas	-0.032	-30.8	157	13.3	2.5	
Tl	205	1	No Gas	0.085	47.0	1003	45.9	1	
Tl	203	1	No Gas	0.090	50.1	450	48.1	1	
Pb	208	1	No Gas	0.022	30.6	750	13.5	2.5	
U	238	1	No Gas	0.006	34.6	120	30.0	2.5	
Ca	43	2	He	-11.657	-176.8	47	61.9	100	
Sb	121	2	He	0.151	12.3	833	9.7	2.5	
Ti	47	2	He	0.000	235.4	10	0.0	2.5	
Cu	63	1	No Gas	0.052	73.5	2854	5.7	2.5	
Se	82	1	No Gas	-0.543	-99.1	-28	-170.4	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	537876	1.01	547648	98.22	70	120	
Ge	72	2	He	503920	1.25	503154	100.15	70	120	
Ge	72	1	No Gas	1308534	2.52	1347493	97.11	70	120	
In	115	1	No Gas	1117571	0.15	1132392	98.69	70	120	
Bi	209	1	No Gas	902796	1.27	923104	97.80	70	120	

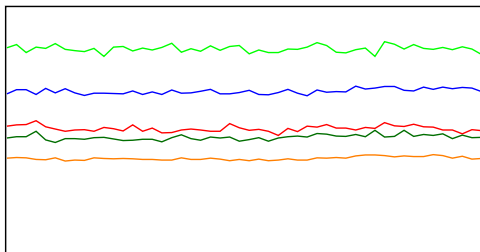


Tune Check Report

Operator Name ALSHS NoUser
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\012423A.b
Acq. Date-Time 01/24/2023 09:41:58
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	2548	25480.69		
24	10000	8333	83325.97		
59	20000	13222	132224.39		
115	50000	19432	194318.95		
208	20000	9487	94867.11		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.376	5.000	
24	1.643	5.000	
59	1.604	5.000	
115	1.761	5.000	
208	2.271	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	0.100		
59	0.300		
115	1.200		
208	3.500		

Oxide/Doubly Charged Ratio

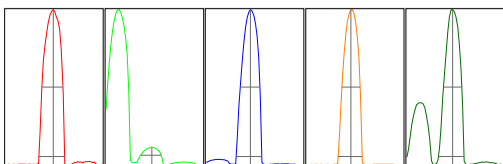
Oxide 156 / 140 0.427 %

Doubly Charged 70 / 140 3.100 %



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	2524.60	9.00	8.90 - 9.10	
24	8571.84	23.95	23.90 - 24.10	
59	13855.78	58.90	58.90 - 59.10	
115	19911.71	114.90	114.90 - 115.10	
208	9496.47	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.785		
24	0.62			
59	0.60	0.782		
115	0.56	0.732		
208	0.56	0.781		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.25 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	9.9 V	Deflect	13.0 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.2 mm
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EM

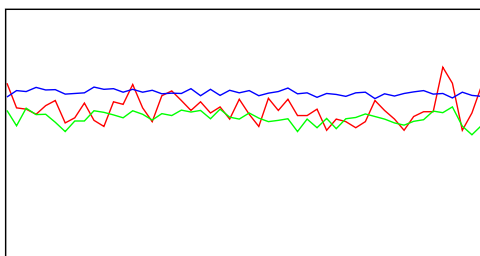
Discriminator	4.5 mV	Analog HV	2163 V	Pulse HV	1224 V
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[He]



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	120	1200.65		
24	1000	564	5640.34		
59	10000	6673	66725.99		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	9.219	5.000	Fail
24	4.635	5.000	
59	1.699	5.000	

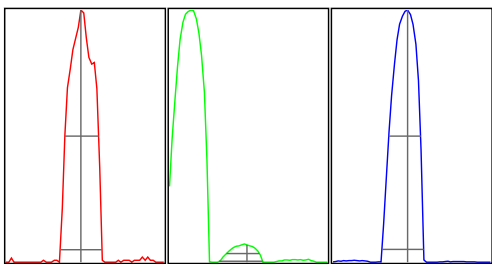
Mass	Background	Background (Required)	Background (Flag)
9	0.500		
24	0.100		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide 156 / 140 0.307 %

Doubly Charged 70 / 140 1.689 %

Resolution/Axis



Integration Time [sec] 0.1

Acquisition Time [sec] 22.24

Y Axis Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	122.51	8.95	8.90 - 9.10	
24	564.13	24.00	23.90 - 24.10	
59	6920.98	58.95	58.90 - 59.10	
Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.783		
24	0.61	0.814		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.779		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.25 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	9.9 V	Deflect	0.6 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	3.6 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2163 V	Pulse HV	1224 V
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HS23010587 Wet Chemistry

ALS WO# HS23010587



C:\TOC-L\lData\2022_12_22_001_CAL.tlx

HS23010587

	Type	Analysis	Sample Nam	Sample ID	Origin	Manual Diluti	Result	Notes	Status
1	Standard	NPOC	CAL	3100606518	12_22_2022	1.000			Completed
2	Unknown	NPOC	ICV	3100606203	12_22_2022	1.000	NPOC:10.4		Completed
3	Unknown	NPOC	ICB		12_22_2022	1.000	NPOC:0.37		Completed

C:\TOC-L\Data\2022_12_22_001_CAL.tlx

	Date / Time	Vial
1	12/22/2022	1, 2, 3, 4, 5,
2	12/22/2022	8
3	12/22/2022	1



C:\TOC-L\Data\2023_01_16_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:25.60mg/L	
2	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.4115mg/L	
3	Unknown	NPOC	MBLK-01162023		12_22_2022	1.000	NPOC:0.2300mg/L	
4	Unknown	NPOC	LCS-01162023	3100606203	12_22_2022	1.000	NPOC:9.708mg/L	
5	Unknown	NPOC	LCSD-01162023		12_22_2022	1.000	NPOC:10.23mg/L	
6	Unknown	NPOC	HS23010509-01		12_22_2022	1.000	NPOC:9.391mg/L	
7	Unknown	NPOC	HS23010509-01MS		12_22_2022	1.000	NPOC:20.33mg/L	
8	Unknown	NPOC	HS23010509-03		12_22_2022	1.000	NPOC:6.198mg/L	
9	Unknown	NPOC	HS23010509-04		12_22_2022	1.000	NPOC:5.172mg/L	
10	Unknown	NPOC	HS23010587-01		12_22_2022	1.000	NPOC:6.280mg/L	
11	Unknown	NPOC	HS23010587-02		12_22_2022	1.000	NPOC:14.51mg/L	
12	Unknown	NPOC	HS23010587-03		12_22_2022	1.000	NPOC:6.785mg/L	
13	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:25.65mg/L	
14	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.4565mg/L	
15	Unknown	NPOC	HS23010587-04		12_22_2022	1.000	NPOC:6.281mg/L	
16	Unknown	NPOC	HS23010587-05		12_22_2022	1.000	NPOC:14.72mg/L	
17	Unknown	NPOC	HS23010587-06		12_22_2022	1.000	NPOC:2.475mg/L	
18	Unknown	NPOC	HS23010620-01		12_22_2022	1.000	NPOC:7.388mg/L	
19	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:25.53mg/L	
20	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.3117mg/L	
21	Unknown	NPOC	MBLK-01162023		12_22_2022	1.000	NPOC:0.7649mg/L	
22	Unknown	NPOC	LCS-01162023	3100606203	12_22_2022	1.000	NPOC:9.861mg/L	
23	Unknown	NPOC	LCSD-01162023		12_22_2022	1.000	NPOC:9.880mg/L	
24	Unknown	NPOC	HS23010644-01		12_22_2022	1.000	NPOC:3.888mg/L	
25	Unknown	NPOC	HS23010644-01MS		12_22_2022	1.000	NPOC:13.54mg/L	
26	Unknown	NPOC	HS23010644-02		12_22_2022	1.000	NPOC:6.297mg/L	
27	Unknown	NPOC	HS23010644-03		12_22_2022	1.000	NPOC:6.639mg/L	
28	Unknown	NPOC	HS23010500-06		12_22_2022	1.000	NPOC:0.7562mg/L	
29	Unknown	NPOC	HS23010500-09		12_22_2022	1.000	NPOC:10.52mg/L	
30	Unknown	NPOC	HS23010500-11		12_22_2022	1.000	NPOC:18.10mg/L	
31	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:25.72mg/L	
32	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.4126mg/L	
33	Unknown	NPOC	HS23010500-13		12_22_2022	1.000	NPOC:14.87mg/L	
34	Unknown	NPOC	HS23010592-01DF1		12_22_2022	1.000	NPOC:2.728mg/L	
35	Unknown	NPOC	HS23010619-01		12_22_2022	1.000	NPOC:8.003mg/L	
36	Unknown	NPOC	HS23010459-02DF5		12_22_2022	1.000	NPOC:13.31mg/L	
37	Unknown	NPOC	CCV	321100711	12_22_2022	1.000	NPOC:25.04mg/L	
38	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.3673mg/L	
39	Unknown	NPOC	MBLK-01162023		12_22_2022	1.000	NPOC:0.2081mg/L	
40	Unknown	NPOC	LCS-01162023	3100606203	12_22_2022	1.000	NPOC:9.989mg/L	
41	Unknown	NPOC	LCSD-01162023		12_22_2022	1.000	NPOC:10.01mg/L	
42	Unknown	NPOC	HS23010459-03DF5		12_22_2022	1.000	NPOC:7.823mg/L	
43	Unknown	NPOC	HS23010459-03MSD		12_22_2022	1.000	NPOC:17.48mg/L	
44	Unknown	NPOC	HS23010459-04DF5		12_22_2022	1.000	NPOC:10.52mg/L	
45	Unknown	NPOC	CCV	321100711	TOC_W 906	1.000	NPOC:25.93mg/L	
46	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2701mg/L	
47	Unknown	NPOC	MBLK-01162023		TOC_W 906	1.000	NPOC:0.1672mg/L	
48	Unknown	NPOC	LCS-01162023	3100606203	TOC_W 906	1.000	NPOC:9.925mg/L	
49	Unknown	NPOC	LCSD-01162023		TOC_W 906	1.000	NPOC:9.991mg/L	
50	Unknown	NPOC	HS23010522-03		TOC_W 906	1.000	NPOC:17.53mg/L	
51	Unknown	NPOC	HS23010522-03MS		TOC_W 906	1.000	NPOC:27.58mg/L	

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	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
52	Unknown	NPOC	HS23010527-01		TOC_W 906	1.000	NPOC:23.89mg/L	
53	Unknown	NPOC	CCV	321100711	TOC_W 906	1.000	NPOC:25.73mg/L	
54	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.3770mg/L	

	Status	Date / Time	Vial
1	Completed	1/16/2023 1	1
2	Completed	1/16/2023 1	2
3	Completed	1/16/2023 1	3
4	Completed	1/16/2023 1	4
5	Completed	1/16/2023 1:	5
6	Completed	1/16/2023 1:	6
7	Completed	1/16/2023 1:	7
8	Completed	1/16/2023 1:	8
9	Completed	1/16/2023 1:	9
10	Completed	1/16/2023 2:	10
11	Completed	1/16/2023 2:	11
12	Completed	1/16/2023 2:	12
13	Completed	1/16/2023 2:	1
14	Completed	1/16/2023 3:	2
15	Completed	1/16/2023 3:	13
16	Completed	1/16/2023 3:	14
17	Completed	1/16/2023 3:	15
18	Completed	1/16/2023 4:	16
19	Completed	1/16/2023 4:	1
20	Completed	1/16/2023 4:	2
21	Completed	1/16/2023 4:	3
22	Completed	1/16/2023 4:	4
23	Completed	1/16/2023 5:	5
24	Completed	1/16/2023 5:	17
25	Completed	1/16/2023 5:	18
26	Completed	1/16/2023 5:	19
27	Completed	1/16/2023 6:	20
28	Completed	1/16/2023 6:	21
29	Completed	1/16/2023 6:	22
30	Completed	1/16/2023 6:	23
31	Completed	1/16/2023 7:	24
32	Completed	1/16/2023 7:	25
33	Completed	1/16/2023 7:	26
34	Completed	1/16/2023 7:	27
35	Completed	1/16/2023 7:	28
36	Completed	1/16/2023 8:	29
37	Completed	1/16/2023 8:	24
38	Completed	1/16/2023 8:	25
39	Completed	1/16/2023 8:	3
40	Completed	1/16/2023 8:	4
41	Completed	1/16/2023 9:	5
42	Completed	1/16/2023 9:	30
43	Completed	1/16/2023 9:	31
44	Completed	1/16/2023 9:	32
45	Completed	1/16/2023 1	24
46	Completed	1/16/2023 1	25
47	Completed	1/16/2023 1	3
48	Completed	1/16/2023 1	4
49	Completed	1/16/2023 1	5
50	Completed	1/16/2023 1	33
51	Completed	1/16/2023 1	34

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	Status	Date / Time	Vial
52	Completed	1/17/2023 1	35
53	Completed	1/17/2023 1	36
54	Completed	1/17/2023 1	37

TOC-Control L Report

2023_01_16_001.dlx

Instr. Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 321100711
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

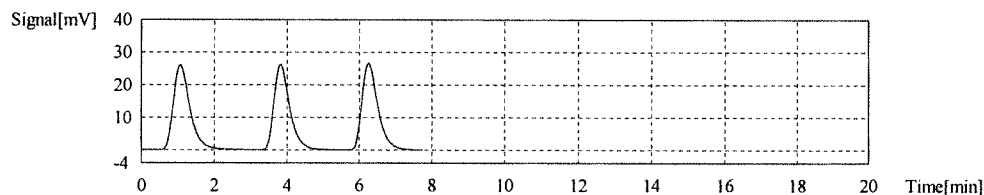
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.60mg/L

1. Det

Anal.: NPOC

No	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.02	25.85mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:06:30 PM
2	80.55	25.08mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:09:13 PM
3	83.12	25.88mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:11:58 PM

Mean Area: 82.23
Mean Conc.: 25.60mg/L



Sample

Sample Name: CCB
Sample ID: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4115mg/L

1. Det

Anal.: NPOC

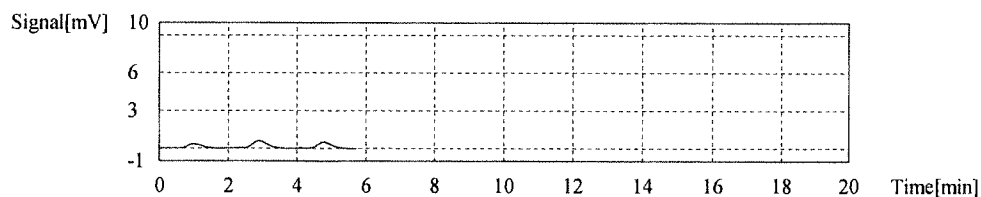
No	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9897	0.3081mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:20:01 PM
2	1.624	0.5056mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:22:08 PM
3	1.351	0.4206mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:24:15 PM



TOC-Control L Report

2023_01_16_001.tlx

Mean Area 1.322
Mean Conc. 0.4115mg/L



Sample

Sample Name: MBLK-01162023
Sample ID:
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

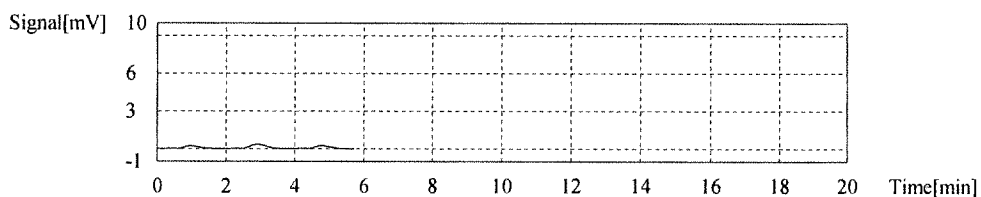
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2300mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj Vol	Aut Dil	Ex	Cal Curve	Date / Time
1	0.5193	0.1617mg/L	50uL	1.000		12_22_2022_CAL.2022 12_22_12_06_45 cal	1/16/2023 12:32:18 PM
2	1.033	0.3216mg/L	50uL	1.000		12_22_2022_CAL.2022 12_22_12_06_45 cal	1/16/2023 12:34:25 PM
3	0.6636	0.2066mg/L	50uL	1.000		12_22_2022_CAL.2022 12_22_12_06_45 cal	1/16/2023 12:36:32 PM

Mean Area 0.7386
Mean Conc. 0.2300mg/L



Sample

Sample Name: LCS-01162023
Sample ID: 3100606203
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.708mg/L

1. Det

Anal.: NPOC

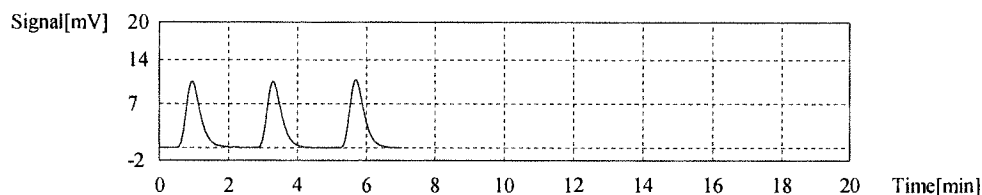


TOC-Control L Report

2023_01_16_001.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.55	9.511mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:45:01 PM
2	30.82	9.596mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:47:38 PM
3	32.17	10.02mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:50:10 PM

Mean Area 31.18
Mean Conc. 9.708mg/L



Sample

Sample Name: LCSD-01162023
Sample ID:
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

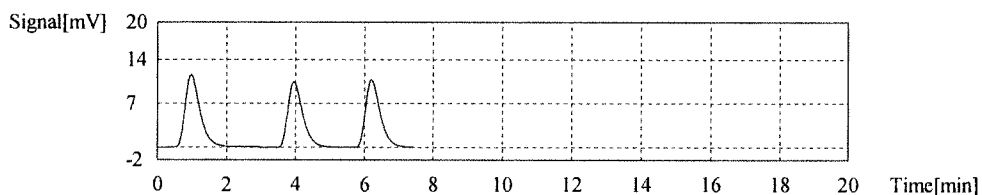
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.23mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.82	10.84mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 12:59:16 PM
2	31.73	9.879mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 1:01:48 PM
3	31.98	9.957mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 1:04:14 PM

Mean Area 32.84
Mean Conc. 10.23mg/L



Sample

Sample Name: HS23010509-01
Sample ID:
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.391mg/L

1. Det



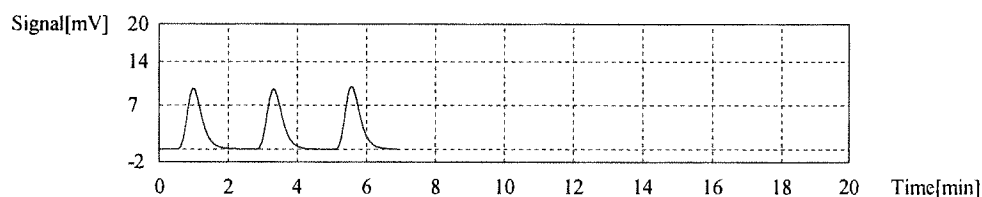
TOC-Control L Report

2023_01_16_001.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	29.41	9.157mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 1:12:41 PM
2	30.08	9.365mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 1:15:11 PM
3	31.00	9.652mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 1:17:46 PM

Mean Area 30.16
Mean Conc. 9.391mg/L



Sample

Sample Name: HS23010509-01MS
Sample ID:
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

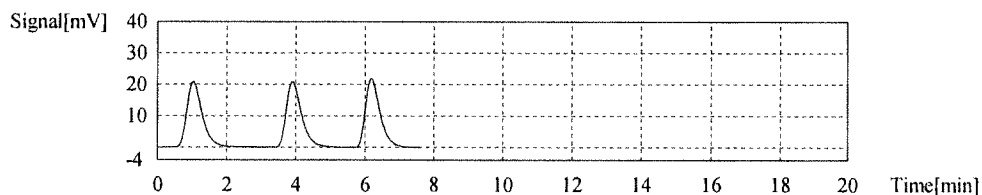
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.33mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	65.15	20.28mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 1:26:48 PM
2	64.49	20.08mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 1:29:22 PM
3	66.28	20.64mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 1:32:00 PM

Mean Area 65.31
Mean Conc. 20.33mg/L



Sample

Sample Name: HS23010587-01
Sample ID:
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.280mg/L



TOC-Control L Report

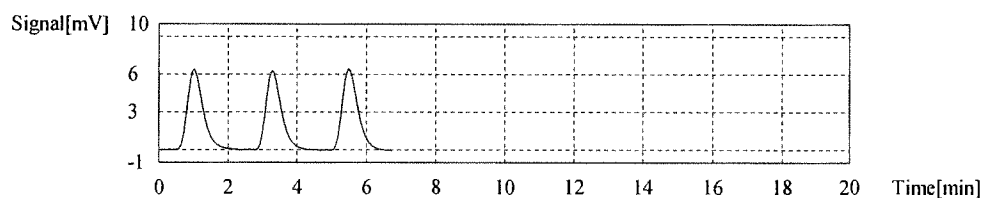
2023_01_16_001.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.09	6.255mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:06:55 PM
2	19.87	6.186mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:09:23 PM
3	20.55	6.398mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:11:50 PM

Mean Area 20.17
Mean Conc. 6.280mg/L



Sample

Sample Name: HS23010587-02
Sample ID: 12_22_2022_CAL.cal
Origin: Completed
Status: Completed
Chk. Result

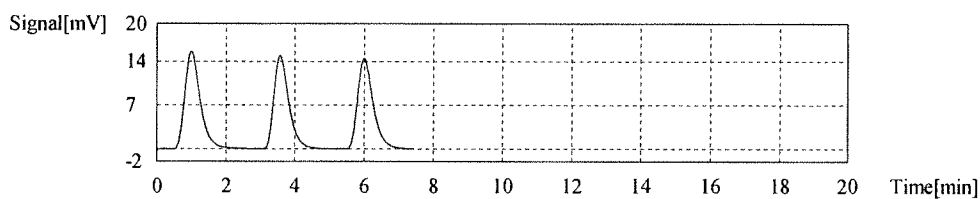
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.51mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.87	15.22mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:20:35 PM
2	45.42	14.14mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:23:15 PM
3	45.48	14.16mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:25:53 PM

Mean Area 46.59
Mean Conc. 14.51mg/L



Sample

Sample Name: HS23010587-03
Sample ID: 12_22_2022_CAL.cal
Origin: Completed
Status: Completed
Chk. Result



TOC-Control L Report

2023_01_16_001.tlx

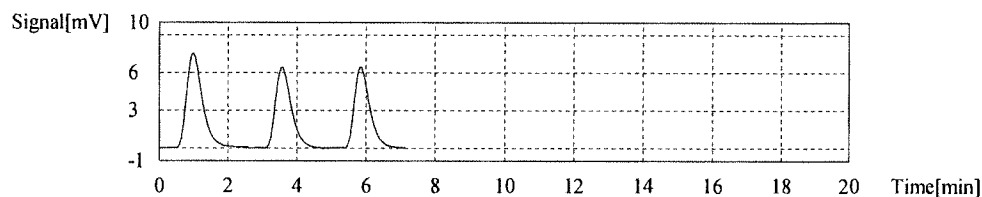
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.785mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	24.51	7.631mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:34:37 PM
2	20.67	6.435mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:37:10 PM
3	20.20	6.289mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:39:38 PM

Mean Area 21.79
Mean Conc. 6.785mg/L



Sample

Sample Name: CCV
Sample ID: 321100711
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result

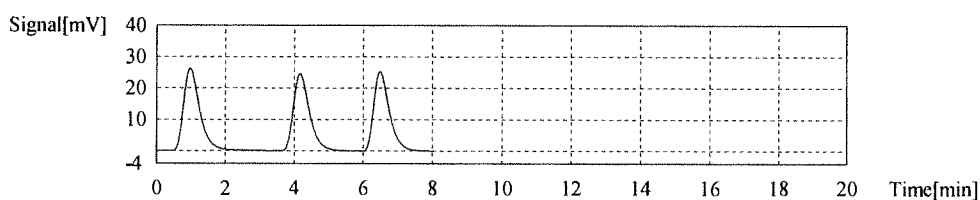
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.65mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.96	27.07mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:49:06 PM
2	80.21	24.97mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:51:44 PM
3	80.01	24.91mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 2:54:26 PM

Mean Area 82.39
Mean Conc. 25.65mg/L



Sample



TOC-Control L Report

2023_01_16_001.tif

Sample Name: CCB
 Sample ID:
 Origin: 12_22_2022_CAL.cal
 Status: Completed
 Chk. Result

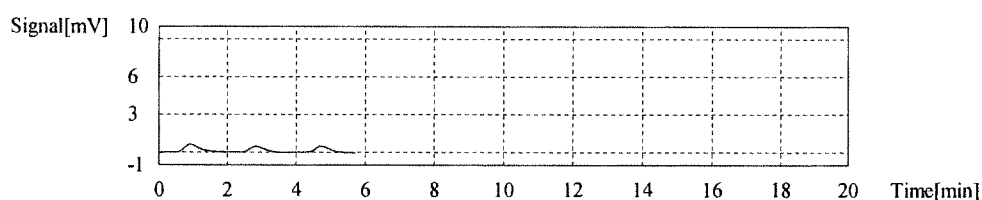
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4565mg/L

1. Det

Anal.: NPOC

No.	Area	Conc	Inj. Vol	Aut. Dil	Ex.	Cal. Curve	Date / Time
1	1.723	0.5364mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:02:30 PM
2	1.347	0.4194mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:04:38 PM
3	1.329	0.4138mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:06:46 PM

Mean Area 1.466
 Mean Conc. 0.4565mg/L



Sample

Sample Name: HS23010587-04
 Sample ID:
 Origin: 12_22_2022_CAL.cal
 Status: Completed
 Chk. Result

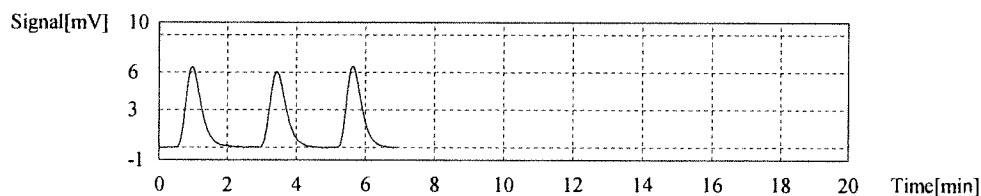
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.281mg/L

1. Det

Anal.: NPOC

No.	Area	Conc	Inj. Vol	Aut. Dil	Ex.	Cal. Curve	Date / Time
1	20.66	6.432mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:15:28 PM
2	19.70	6.133mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:17:58 PM
3	20.16	6.277mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:20:26 PM

Mean Area 20.17
 Mean Conc. 6.281mg/L



TOC-Control L Report

2023_01_16_001.tlx

Sample

Sample Name: HS23010587-05
 Sample ID:
 Origin: 12_22_2022_CAL.cal
 Status: Completed
 Chk. Result

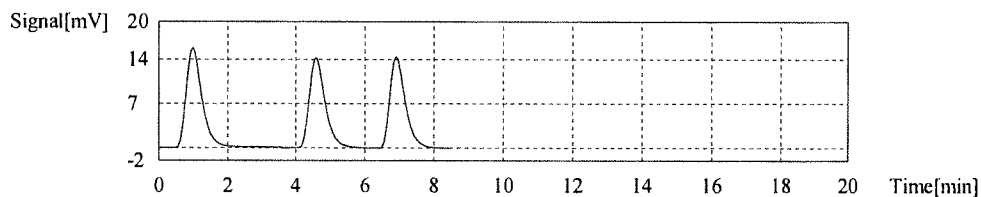
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.72mg/L

1. Det

Anal.: NPOC

No	Area	Conc	Inj. Vol	Aut. Dil	Ex	Cal Curve	Date / Time
1	51.08	15.90mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:30:11 PM
2	45.18	14.07mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:32:48 PM
3	45.62	14.20mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:35:31 PM

Mean Area 47.29
 Mean Conc 14.72mg/L



Sample

Sample Name: HS23010587-06
 Sample ID:
 Origin: 12_22_2022_CAL.cal
 Status: Completed
 Chk. Result

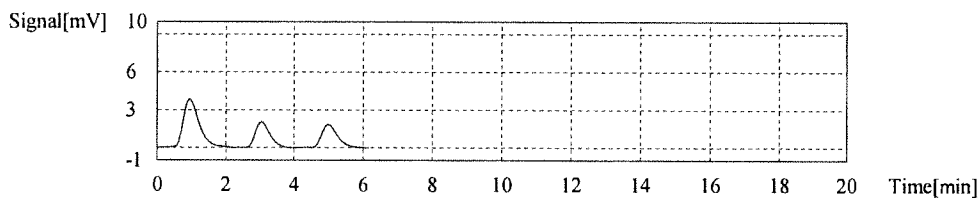
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.475mg/L

1. Det

Anal.: NPOC

No	Area	Conc	Inj. Vol	Aut. Dil	Ex	Cal Curve	Date / Time
1	11.87	3.696mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:43:47 PM
2	6.083	1.894mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:45:56 PM
3	5.895	1.835mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 3:48:18 PM

Mean Area 7.949
 Mean Conc. 2.475mg/L



TOC-Control L Report

2023_01_16_001.tif

Sample

Sample Name: CCV
 Sample ID: 321100711
 Origin: 12_22_2022_CAL.cal
 Status: Completed
 Chk. Result

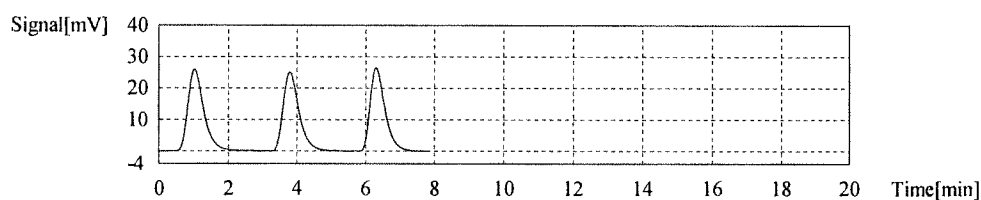
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.53mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.57	26.02mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 4:11:14 PM
2	81.33	25.32mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 4:14:04 PM
3	81.10	25.25mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 4:16:49 PM

Mean Area 82.00
 Mean Conc. 25.53mg/L



Sample

Sample Name: CCB
 Sample ID: 321100711
 Origin: 12_22_2022_CAL.cal
 Status: Completed
 Chk. Result

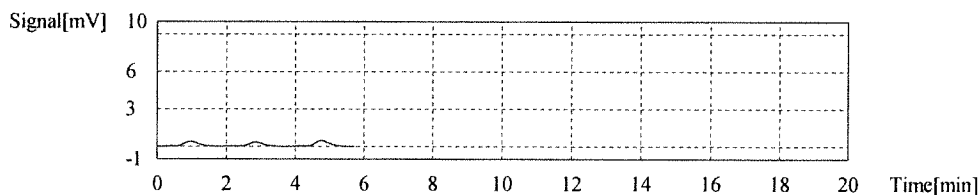
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3117mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.040	0.3238mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 4:24:53 PM
2	0.7763	0.2417mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 4:27:01 PM
3	1.187	0.3696mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	1/16/2023 4:29:09 PM

Mean Area 1.001
 Mean Conc. 0.3117mg/L



TOC-Control L Report

2022_12_22_001_CAL.tlx

Instr.Information

Instrument Options
Catalyst

TOC/ASI/IC Unit/
Regular Sensitivity

Cal. Curve

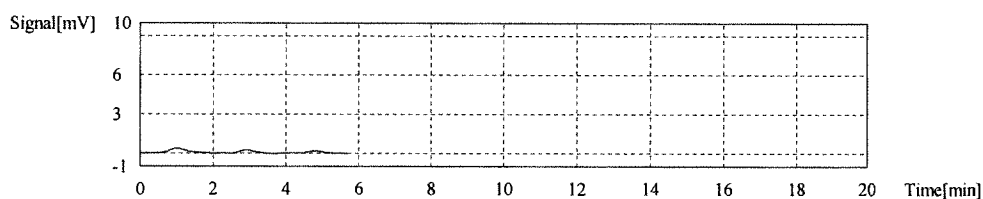
Sample Name: CAL
Sample ID: 3100606518
Cal. Curve: 12_22_2022_CAL.2022_12_22_12_06_45.cal
Status: Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.9953	50uL	1.000	*****		12/22/2022 12:15:19 PM
2	0.6996	50uL	1.000	*****		12/22/2022 12:17:28 PM
3	0.3943	50uL	1.000	*****		12/22/2022 12:19:35 PM

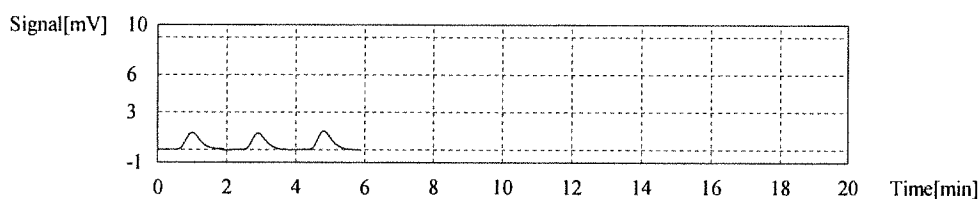
Acid Add. 1.500%
Spurge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 0.6964



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.828	50uL	1.000	*****		12/22/2022 12:27:39 PM
2	3.692	50uL	1.000	*****		12/22/2022 12:29:46 PM
3	4.395	50uL	1.000	*****		12/22/2022 12:32:03 PM

Acid Add. 1.500%
Spurge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 3.972



Conc: 2.000mg/L

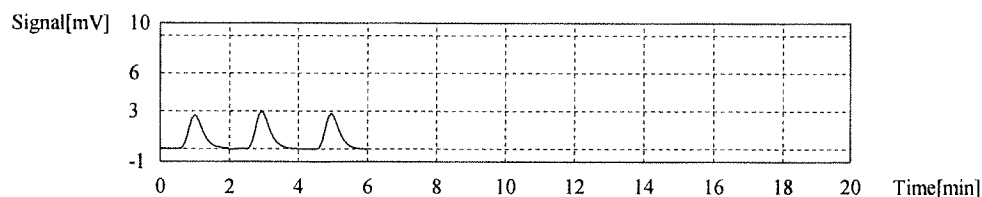
No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.632	50uL	1.000	*****		12/22/2022 12:40:09 PM
2	8.569	50uL	1.000	*****		12/22/2022 12:42:24 PM
3	8.142	50uL	1.000	*****		12/22/2022 12:44:38 PM



TOC-Control L Report

2022_12_22_001_CAL.tlx

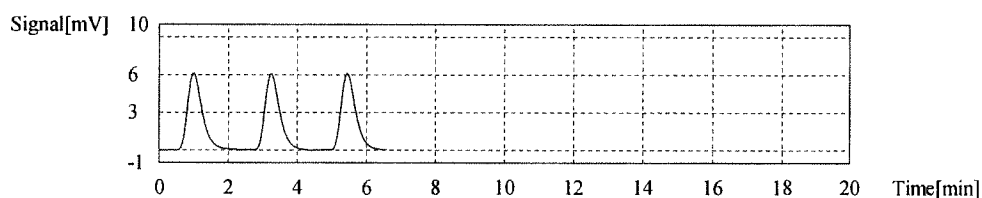
Acid Add. 1.500%
 Spurge Gas Flow 80mL/min
 Sp. Time 120.0sec
 Mean Area 8.114



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.24	50uL	1.000	*****		12/22/2022 12:53:02 PM
2	18.17	50uL	1.000	*****		12/22/2022 12:55:30 PM
3	18.13	50uL	1.000	*****		12/22/2022 12:57:50 PM

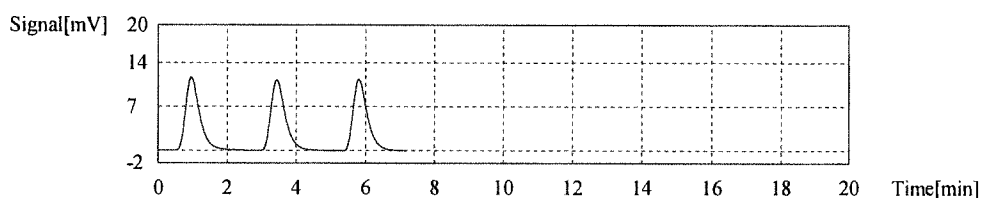
Acid Add. 1.500%
 Spurge Gas Flow 80mL/min
 Sp. Time 120.0sec
 Mean Area 18.18



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	33.16	50uL	1.000	*****		12/22/2022 1:06:28 PM
2	32.94	50uL	1.000	*****		12/22/2022 1:09:05 PM
3	32.73	50uL	1.000	*****		12/22/2022 1:11:32 PM

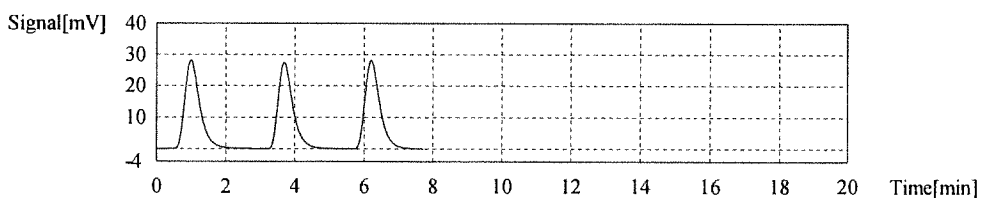
Acid Add. 1.500%
 Spurge Gas Flow 80mL/min
 Sp. Time 120.0sec
 Mean Area 32.94



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	85.96	50uL	1.000	*****		12/22/2022 1:20:24 PM
2	82.23	50uL	1.000	*****		12/22/2022 1:23:09 PM
3	84.99	50uL	1.000	*****		12/22/2022 1:25:54 PM

Acid Add. 1.500%
 Spurge Gas Flow 80mL/min
 Sp. Time 120.0sec
 Mean Area 84.39



Conc: 50.00mg/L

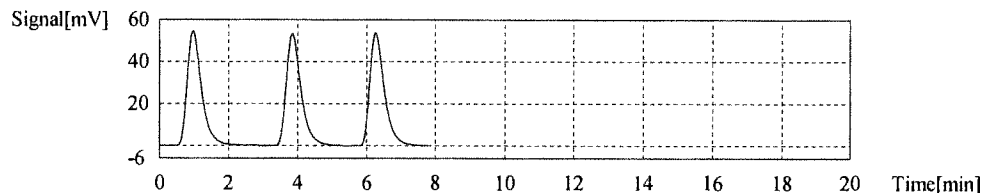


TOC-Control L Report

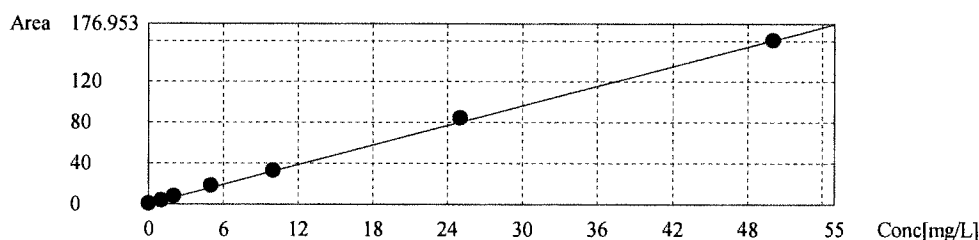
2022_12_22_001_CAL.tlx

No.	Area	Inj. Vol	Aut. Dil	Rem.	Ex	Date / Time
1	162.0	50uL	1.000	*****		12/22/2022 1:34:55 PM
2	160.0	50uL	1.000	*****		12/22/2022 1:37:37 PM
3	160.6	50uL	1.000	*****		12/22/2022 1:40:24 PM

Acid Add. 1.500%
 Spurge Gas Flow 80mL/min
 Sp. Time 120.0sec
 Mean Area 160.9



Slope: 3.212
 Intercept: 0.000
 r^2 : 0.9995
 r : 0.9998
 RSE(%): N/A
 Zero Shift: Yes



Sample

Sample Name: ICV
 Sample ID: 3100606203
 Origin: 12_22_2022_CAL.cal
 Status: Completed
 Chk. Result:

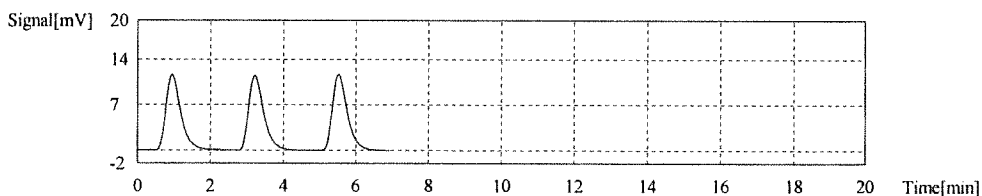
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.45mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil	Ex	Cal Curve	Date / Time
1	33.43	10.41mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 1:48:50 PM
2	33.28	10.36mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 1:51:22 PM
3	33.98	10.58mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 1:53:55 PM

Mean Area 33.56
 Mean Conc. 10.45mg/L



Sample



TOC-Control L Report

2022_12_22_001_CAL.tif

Sample Name: ICB
 Sample ID:
 Origin: 12_22_2022_CAL.cal
 Status: Completed
 Chk. Result

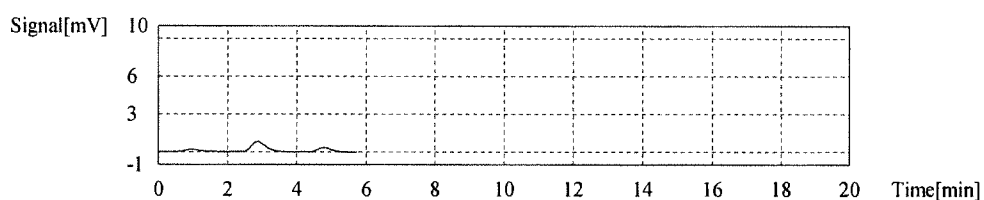
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3762mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3846	0.1197mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 2:02:10 PM
2	2.321	0.7226mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 2:04:18 PM
3	0.9197	0.2863mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 2:06:25 PM

Mean Area 1.208
 Mean Conc. 0.3762mg/L



HS23010587 9056_W IC

ALS WO# HS23010587



Sequence: 011323
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method	Processing Method	CD
	STD1	9056-W-SH	Calibratio	RA1	1.00	1	Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	CCB		Unknown	R8	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	MBLK		Unknown	R5	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-01DF2		Unknown	RD3	2.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-01DF50		Unknown	RD4	50.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-02		Unknown	RD5	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-02MS		Unknown	RD6	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-02MSD		Unknown	RD7	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-02DF20		Unknown	RD8	20.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-03DF2		Unknown	RE1	2.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-03DF50		Unknown	RE2	50.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-04	9056-W-SH	Unknown	RE3	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-04DF20		Unknown	RE4	20.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-05		Unknown	RE5	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-05DF20		Unknown	RE6	20.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-06		Unknown	RE7	1.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	
	HS23010587-06DF20	9056-W-SH	Unknown	RE8	20.00		Anions Program ISO37mM 150mm st	Anions Processing Method ISO	



Sequence: 011323

Last Update Operator: alsht.nouser

Name	Volume	Status	Inject Time
 STD1	5.0	Finished	12/27/2022 9:56:47 AM -06:00
 STD2	5.0	Finished	12/27/2022 10:02:00 AM -06:00
 STD3	5.0	Finished	12/27/2022 10:07:14 AM -06:00
 STD4	5.0	Finished	12/27/2022 10:12:27 AM -06:00
 STD5	5.0	Finished	12/27/2022 10:17:41 AM -06:00
 STD6	5.0	Finished	12/27/2022 10:23:05 AM -06:00
 ICV	5.0	Finished	12/27/2022 10:33:32 AM -06:00
 ICB	5.0	Finished	12/27/2022 10:59:54 AM -06:00
 CCV1	5.0	Finished	1/13/2023 12:15:26 PM -06:00
 CCB	5.0	Finished	1/13/2023 12:26:11 PM -06:00
 MBLK	5.0	Finished	1/13/2023 12:31:23 PM -06:00
 LCS	5.0	Finished	1/13/2023 12:41:58 PM -06:00
 HS23010587-01DF2	5.0	Finished	1/13/2023 12:47:11 PM -06:00
 HS23010587-01DF50	5.0	Finished	1/13/2023 12:52:23 PM -06:00
 HS23010587-02	5.0	Finished	1/13/2023 12:57:35 PM -06:00
 HS23010587-02MS	5.0	Finished	1/13/2023 1:02:58 PM -06:00
 HS23010587-02MSD	5.0	Finished	1/13/2023 1:08:21 PM -06:00
 HS23010587-02DF20	5.0	Finished	1/13/2023 1:13:34 PM -06:00
 HS23010587-03DF2	5.0	Finished	1/13/2023 1:18:46 PM -06:00
 HS23010587-03DF50	5.0	Finished	1/13/2023 1:23:58 PM -06:00
 CCV	5.0	Finished	1/13/2023 1:39:35 PM -06:00
 CCB	5.0	Finished	1/13/2023 1:50:00 PM -06:00
 HS23010587-04	5.0	Finished	1/13/2023 1:55:13 PM -06:00
 HS23010587-04DF20	5.0	Finished	1/13/2023 2:00:25 PM -06:00
 HS23010587-05	5.0	Finished	1/13/2023 2:05:49 PM -06:00
 HS23010587-05DF20	5.0	Finished	1/13/2023 2:11:01 PM -06:00
 HS23010587-06	5.0	Finished	1/13/2023 2:16:13 PM -06:00
 HS23010587-06DF20	5.0	Finished	1/13/2023 2:21:36 PM -06:00



Sequence: 011323
Injection #6: STD6

Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	Fluoride	Lin, WithOffset, 1/A	Area	6	23.3153	0.99726	-0.0022	0.2118	0.0000
2	Chloride	Lin, WithOffset, 1/A	Area	6	4.7177	0.99989	-0.0075	0.1407	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	5.0600	0.99987	0.0014	0.3092	-0.0040
4	Sulfate	Lin, WithOffset, 1/A	Area	6	3.9932	0.99992	-0.0082	0.0932	0.0000
5	Bromide	Lin, WithOffset, 1/A	Area	6	19.2635	0.99821	-0.0010	0.0483	0.0000
6	Nitrate	Lin, WithOffset, 1/A	Area	6	6.1286	0.99981	-0.0040	0.3008	0.0000
n.a.	Chlorate	Quad, WithOffset, 1/A	Area	0	n.a.	n.a.	n.a.	n.a.	n.a.
7	Phosphate	Lin, WithOffset, 1/A	Area	2	n.a.	1.00000	-0.3294	0.0987	0.0000
Maximum					23.3153	1.00000			
Minimum					3.9932	0.99726			



Sequence: 011323
Injection #6: STD6

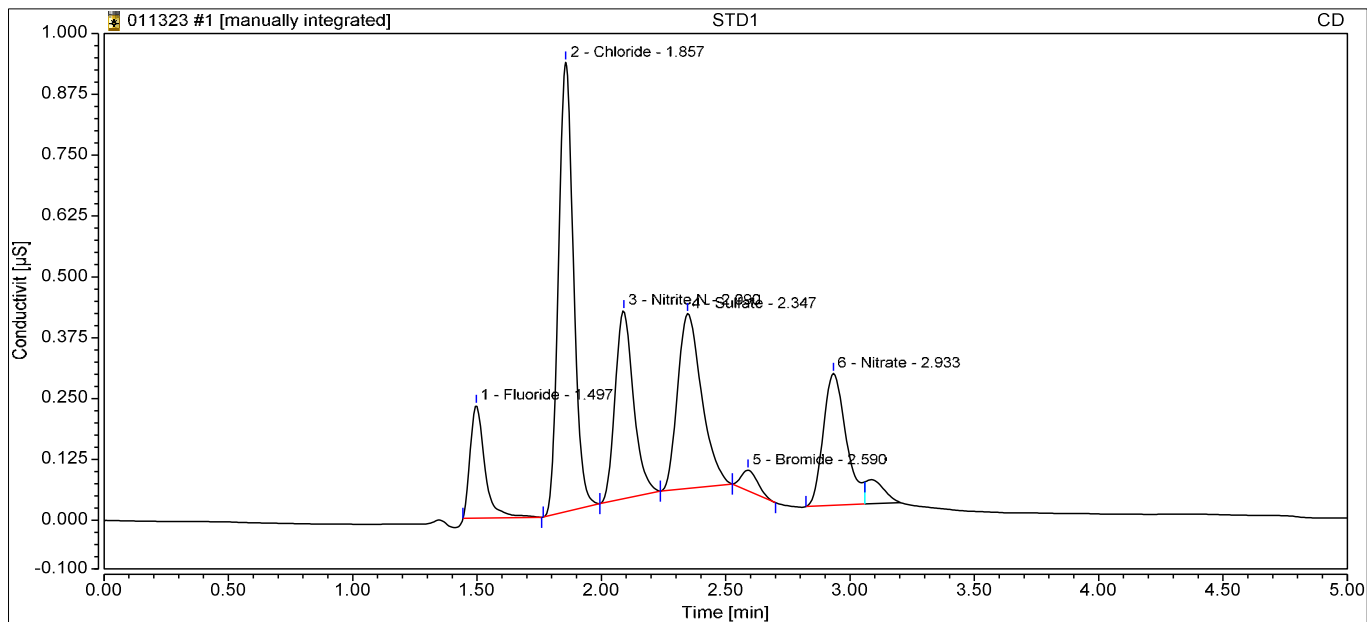
Calibration

Printed by alshs.nouser
19/01/23 17:10



1 STD1

Sample Name:	STD1	Injection Volume:	5.00
Vial Number:	RA1	Channel:	CD
Sample Type:	Calibration Standard	Wavelength:	n.a.
Control Program:	Anions Program ISO37mM 150mm short 0.4 Constant current	Bandwidth:	n.a.
Quantif. Method:	Anions Processing Method ISO	Dilution Factor:	1.0000
Recording Time:	12/27/2022 09:56	Sample Weight:	1.0000
Run Time:			



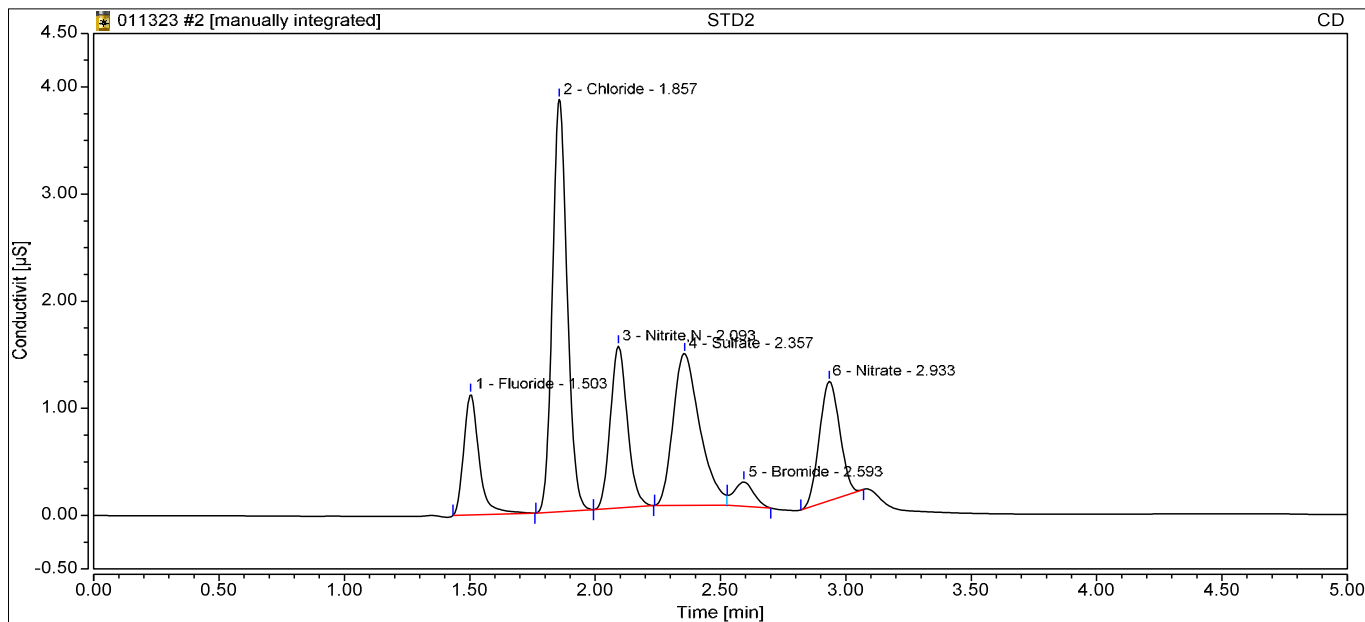
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.50	Fluoride	BMB	0.016	0.0854	0.0854	1.0000
2	1.86	Chloride	BMB	0.064	0.5108	0.5108	1.0000
3	2.09	Nitrite,N	BMB	0.033	0.1027	0.1027	1.0000
4	2.35	Sulfate	BMB	0.040	0.5200	0.5200	1.0000
5	2.59	Bromide	BMB	0.003	0.0885	0.0885	1.0000
6	2.93	Nitrate	BM *	0.029	0.1099	0.1099	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	0.186	1.42		

2 STD2

Sample Name:	STD2	Injection Volume:	5.00
Vial Number:	RA2	Channel:	CD
Sample Type:	Calibration Standard	Wavelength:	n.a.
Control Program:	Anions Program ISO37mM 150mm short 0.4 Constant current	Bandwidth:	n.a.
Quantif. Method:	Anions Processing Method ISO	Dilution Factor:	1.0000
Recording Time:	12/27/2022 10:02	Sample Weight:	1.0000

Run Time:



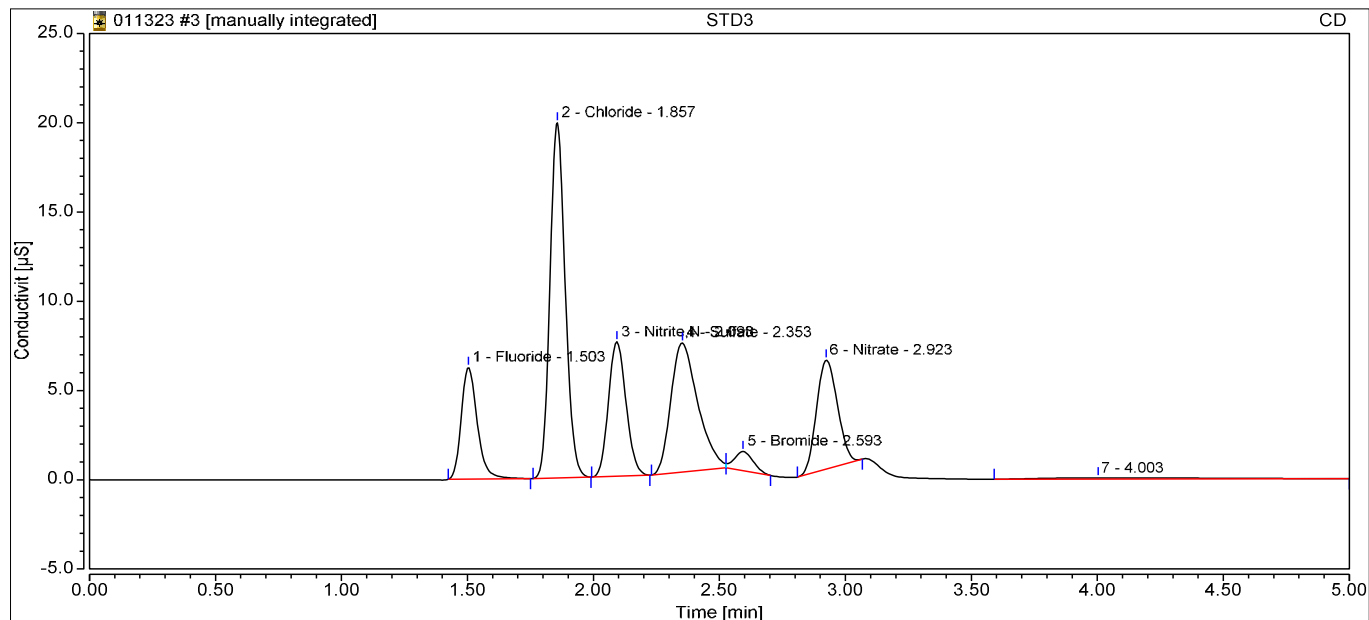
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.50	Fluoride	BMB	0.080	0.3881	0.3881	1.0000
2	1.86	Chloride	BMB	0.263	1.9231	1.9231	1.0000
3	2.09	Nitrite, N	BMB	0.119	0.3825	0.3825	1.0000
4	2.36	Sulfate	BM *	0.175	1.9643	1.9643	1.0000
5	2.59	Bromide	MB*	0.021	0.4543	0.4543	1.0000
6	2.93	Nitrate	BMB*	0.105	0.3615	0.3615	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	0.763	5.47		



3 STD3

Sample Name:	STD3	Injection Volume:	5.00
Vial Number:	RA3	Channel:	CD
Sample Type:	Calibration Standard	Wavelength:	n.a.
Control Program:	Anions Program ISO37mM 150mm short 0.4 Constant current	Bandwidth:	n.a.
Quantif. Method:	Anions Processing Method ISO	Dilution Factor:	1.0000
Recording Time:	12/27/2022 10:07	Sample Weight:	1.0000
Run Time:			



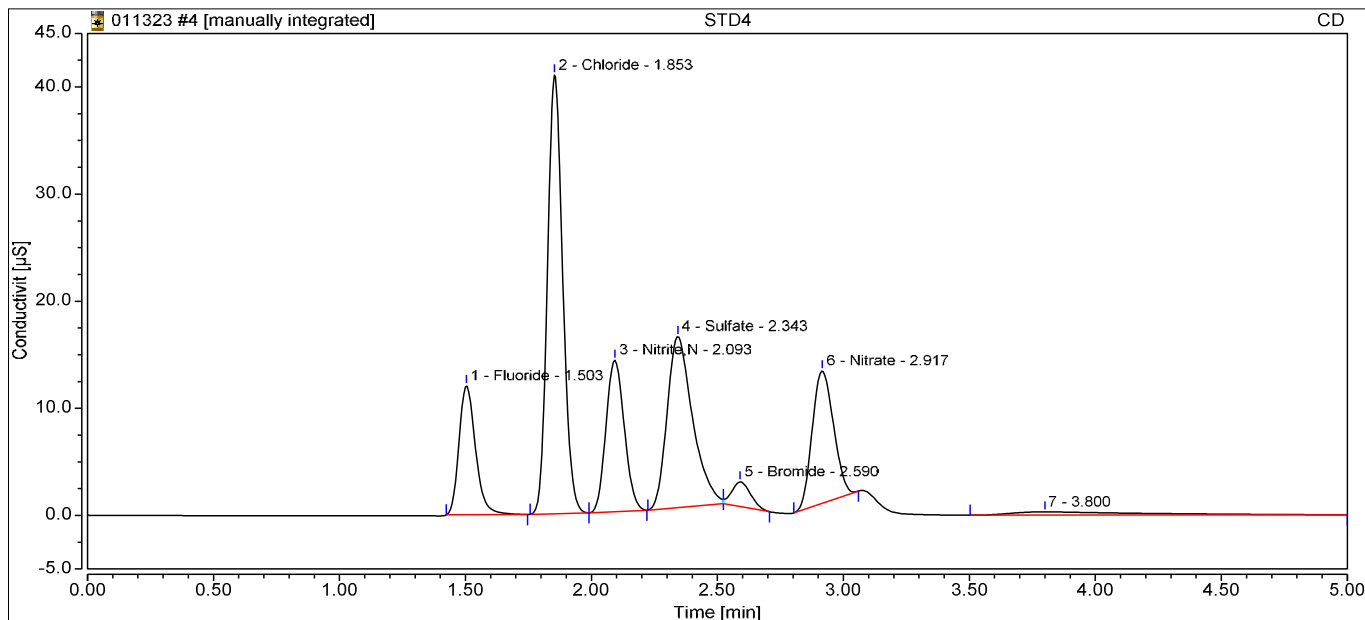
Integration Results								
No.	Retention min		Peak Name	Peak Type	Area μS*min	Amount ppm	Concentration ppm	Dilution
1		1.50	Fluoride	BMB	0.464	2.2003	2.2003	1.0000
2		1.86	Chloride	BMB	1.392	9.9441	9.9441	1.0000
3		2.09	Nitrite,N	BMB	0.610	2.0216	2.0216	1.0000
4		2.35	Sulfate	BM *	0.895	9.6938	9.6938	1.0000
5		2.59	Bromide	MB*	0.093	1.9508	1.9508	1.0000
6		2.92	Nitrate	BMB	0.587	1.9648	1.9648	1.0000
n.a.	n.a.		Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.		Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:				0.000	4.041	27.78		



4 STD4

Sample Name:	STD4	Injection Volume:	5.00
Vial Number:	RA4	Channel:	CD
Sample Type:	Calibration Standard	Wavelength:	n.a.
Control Program:	Anions Program ISO37mM 150mm short 0.4 Constant current	Bandwidth:	n.a.
Quantif. Method:	Anions Processing Method ISO	Dilution Factor:	1.0000
Recording Time:	12/27/2022 10:12	Sample Weight:	1.0000

Run Time:



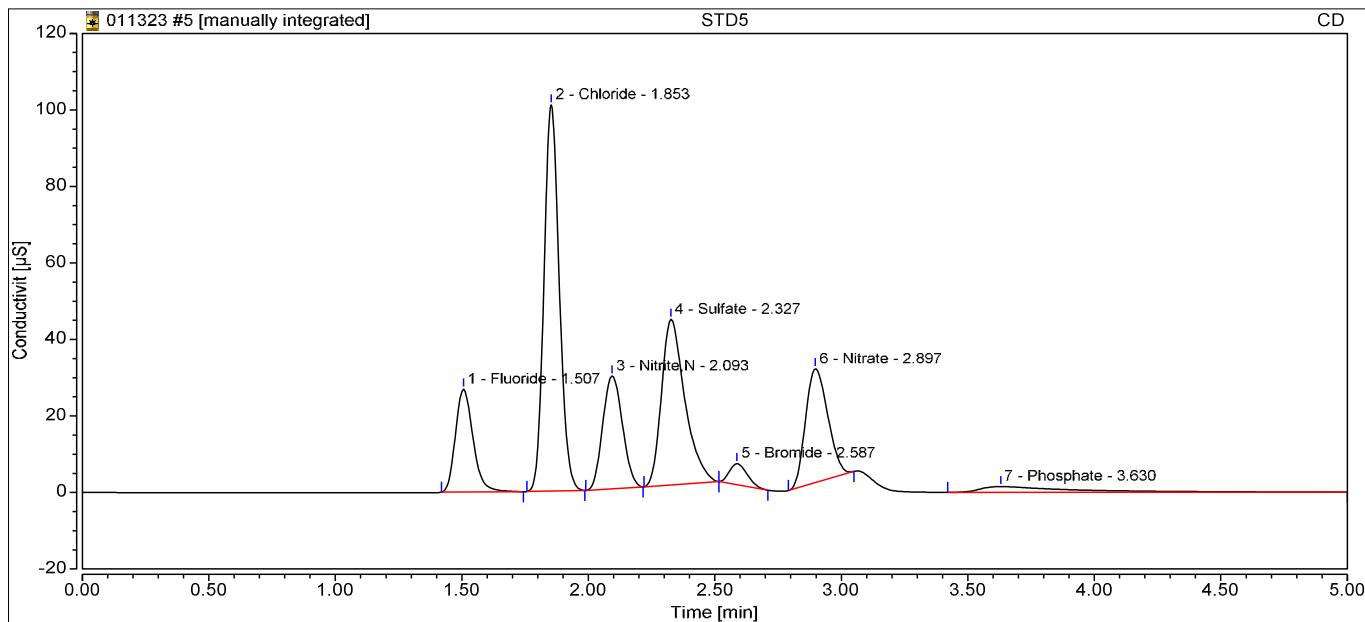
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.50	Fluoride	BMB	0.921	4.3590	4.3590	1.0000
2	1.85	Chloride	BMB	2.875	20.4836	20.4836	1.0000
3	2.09	Nitrite,N	BMB	1.193	4.0651	4.0651	1.0000
4	2.34	Sulfate	BM *	1.870	20.1597	20.1597	1.0000
5	2.59	Bromide	MB*	0.200	4.1652	4.1652	1.0000
6	2.92	Nitrate	BMB	1.211	4.0392	4.0392	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	8.270	57.27		

5 STD5

Sample Name: **STD5**
 Vial Number: **RA5**
 Sample Type: **Calibration Standard**
 Control Program: **Anions Program ISO37mM 150mm short 0.4 Constant current**
 Quantif. Method: **Anions Processing Method ISO**
 Recording Time: **12/27/2022 10:17**
 Run Time:

Injection Volume: **5.00**
 Channel: **CD**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**



Integration Results

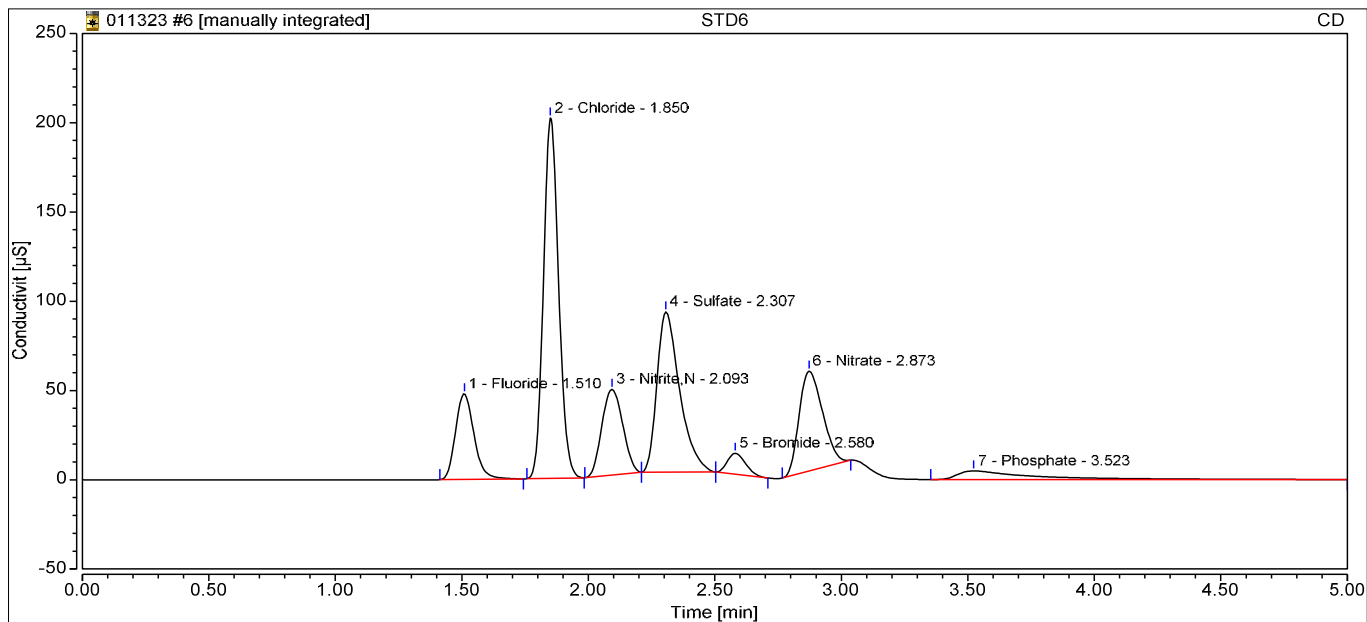
No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	2.171	10.2601	10.2601	1.0000
2	1.85	Chloride	BMB	7.056	50.1918	50.1918	1.0000
3	2.09	Nitrite, N	BMB	2.665	9.8635	9.8635	1.0000
4	2.33	Sulfate	BMB	4.639	49.8789	49.8789	1.0000
5	2.59	Bromide	BMB	0.454	9.4119	9.4119	1.0000
6	2.90	Nitrate	BMB	3.026	10.0727	10.0727	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
7	3.63	Phosphate	BMB	0.658	10.0000	10.0000	1.0000
Total:			0.000	20.668	149.68		



6 STD6

Sample Name: **STD6**
 Vial Number: **RA6**
 Sample Type: **Calibration Standard**
 Control Program: **Anions Program ISO37mM 150mm short 0.4 Constant current**
 Quantif. Method: **Anions Processing Method ISO**
 Recording Time: **12/27/2022 10:23**
 Run Time:

Injection Volume: **5.00**
 Channel: **CD**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**



Integration Results

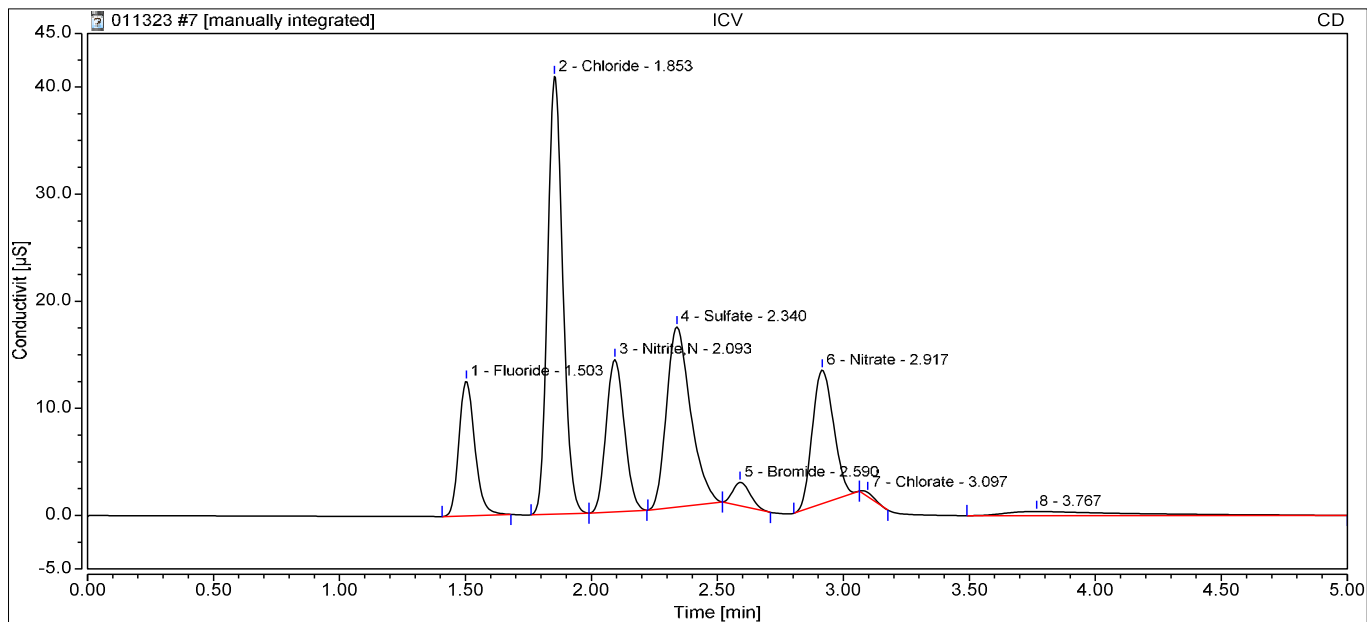
No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	4.066	19.2071	19.2071	1.0000
2	1.85	Chloride	BMB	13.987	99.4466	99.4466	1.0000
3	2.09	Nitrite,N	BMB	4.607	20.0772	20.0772	1.0000
4	2.31	Sulfate	BMB	9.335	100.2833	100.2833	1.0000
5	2.58	Bromide	BMB	0.986	20.4293	20.4293	1.0000
6	2.87	Nitrate	BMB	5.997	19.9519	19.9519	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
7	3.52	Phosphate	BMB	1.645	20.0000	20.0000	1.0000
Total:			0.000	40.625	299.40		



7 ICV

Sample Name: ICV
 Vial Number: RA7
 Sample Type: Unknown
 Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current
 Quantif. Method: Anions Processing Method ISO
 Recording Time: 12/27/2022 10:33
 Run Time:

Injection Volume: 5.00
 Channel: CD
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000



Integration Results

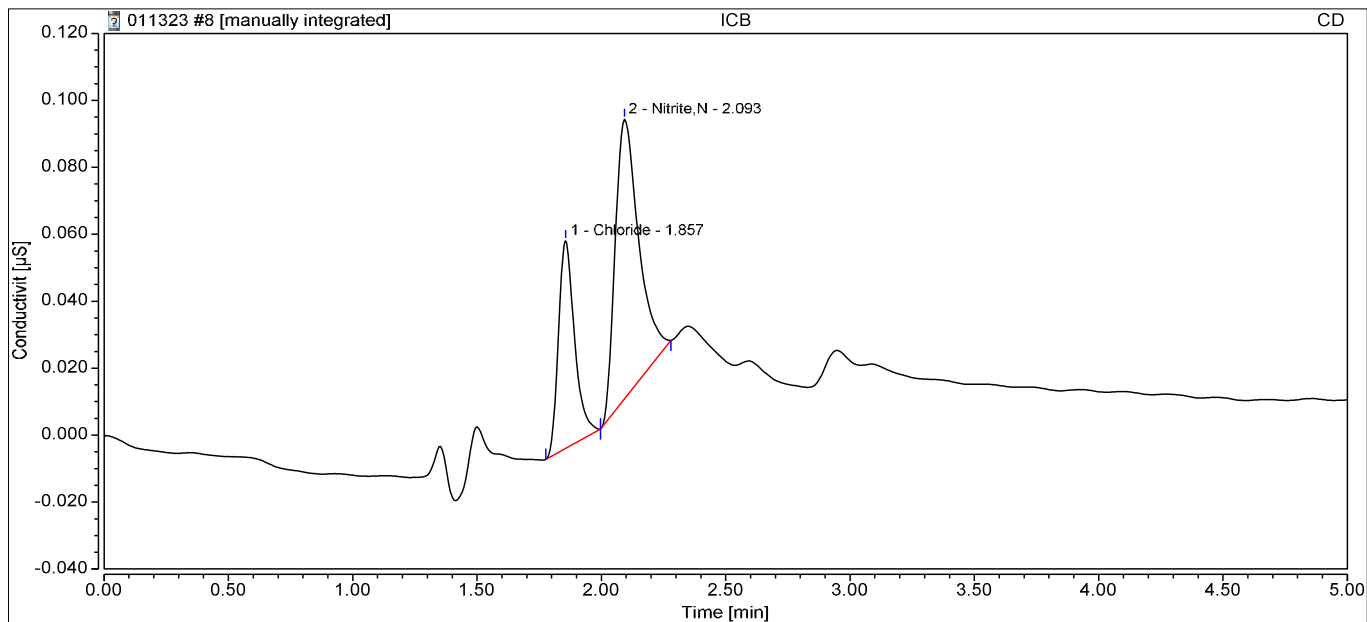
No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.50	Fluoride	BMB*	0.924	4.3701	4.3701	1.0000
2	1.85	Chloride	BMB	2.854	20.3353	20.3353	1.0000
3	2.09	Nitrite, N	BMB	1.197	4.0799	4.0799	1.0000
4	2.34	Sulfate	BMB	1.868	20.1397	20.1397	1.0000
5	2.59	Bromide	BMB	0.178	3.7005	3.7005	1.0000
6	2.92	Nitrate	BMB	1.221	4.0737	4.0737	1.0000
7	3.10	Chlorate	BMB	0.020	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	8.262	56.70		



8 ICB

Sample Name: ICB
 Vial Number: RA8
 Sample Type: Unknown
 Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current
 Quantif. Method: Anions Processing Method ISO
 Recording Time: 12/27/2022 10:59
 Run Time:

Injection Volume: 5.00
 Channel: CD
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000



Integration Results

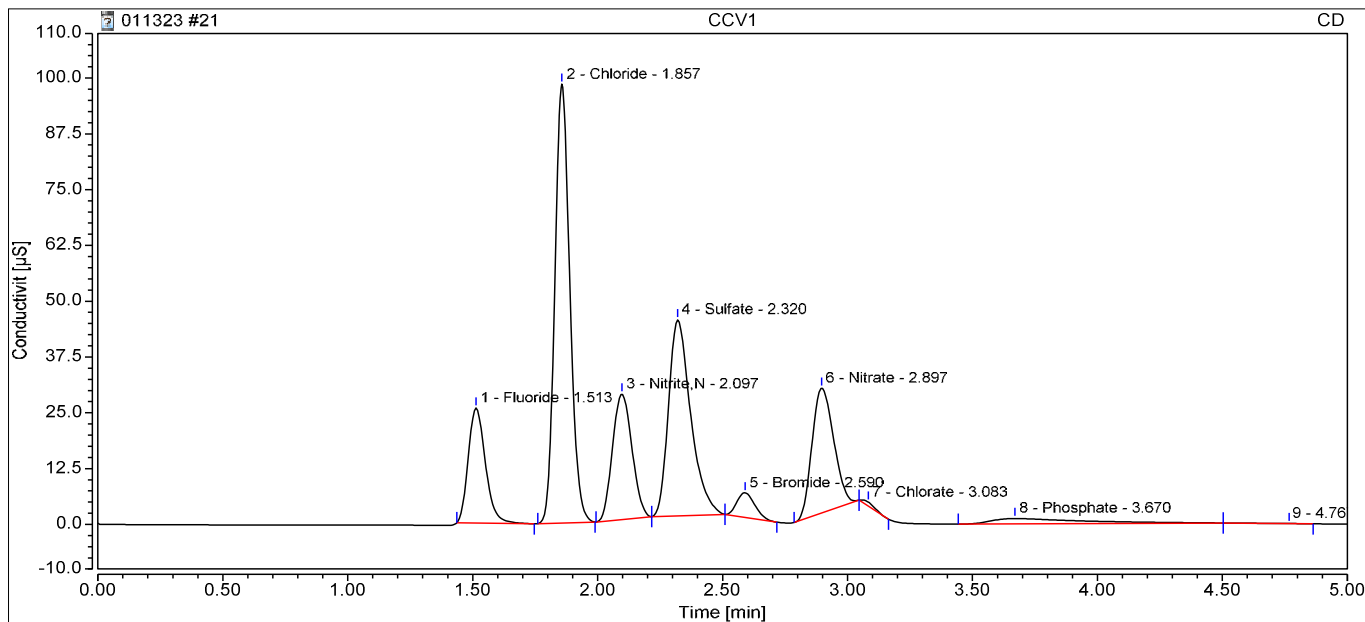
No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	1.86	Chloride	BMB*	0.005	0.0866	0.0866	1.0000
2	2.09	Nitrite, N	bMB*	0.009	0.0250	0.0250	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	0.014	0.11		



21 CCV1

Sample Name: CCV1
 Vial Number: R3
 Sample Type: Unknown
 Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current
 Quantif. Method: Anions Processing Method ISO
 Recording Time: 01/13/2023 12:15
 Run Time:

Injection Volume: 5.00
 Channel: CD
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000



Integration Results

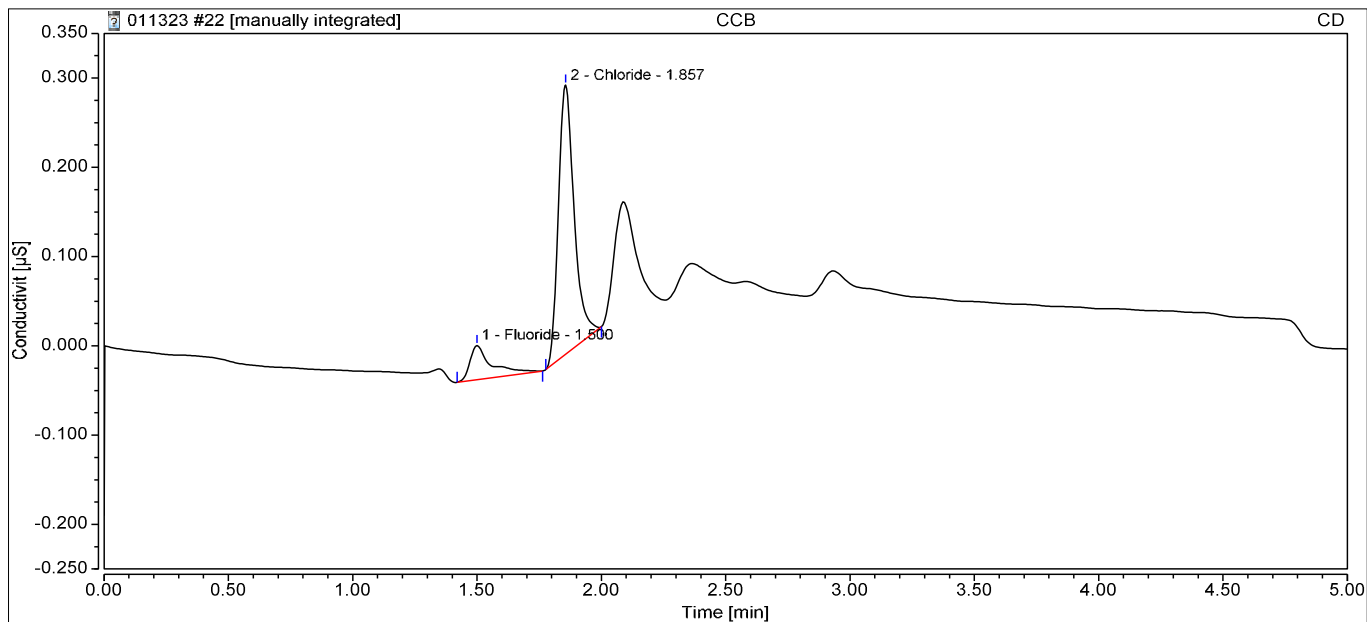
No.	Retention min	Peak Name	Peak Type	Area $\mu\text{S} \cdot \text{min}$	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	2.050	9.6900	9.6900	1.0000
2	1.86	Chloride	BMB	6.842	48.6732	48.6732	1.0000
3	2.10	Nitrite, N	BMB	2.542	9.3350	9.3350	1.0000
4	2.32	Sulfate	BMB	4.529	48.7027	48.7027	1.0000
5	2.59	Bromide	BMB	0.461	9.5587	9.5587	1.0000
6	2.90	Nitrate	BMB	2.805	9.3374	9.3374	1.0000
7	3.08	Chlorate	BMB	0.049	n.a.	n.a.	1.0000
8	3.67	Phosphate	BMB	0.510	8.5004	8.5004	1.0000
Total:			0.000	19.788	143.80		



22 CCB

Sample Name: CCB
 Vial Number: R8
 Sample Type: Unknown
 Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current
 Quantif. Method: Anions Processing Method ISO
 Recording Time: 01/13/2023 12:26
 Run Time:

Injection Volume: 5.00
 Channel: CD
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000



Integration Results

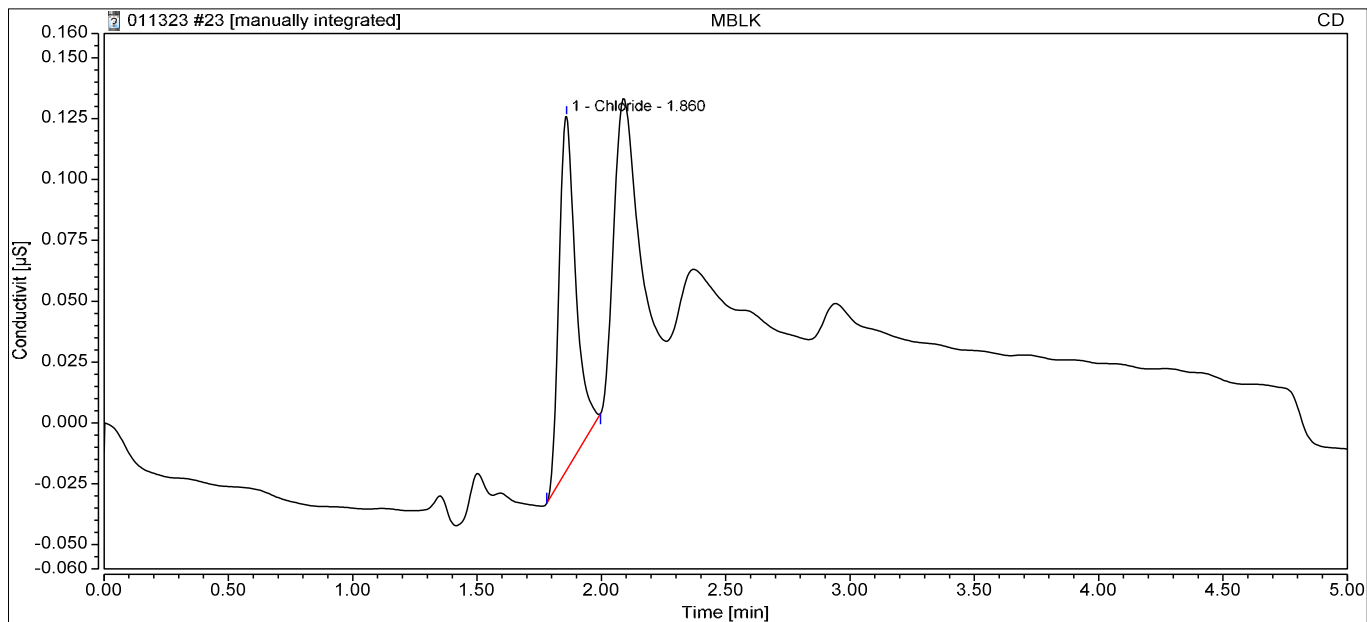
No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.50	Fluoride	BMB	0.004	0.0286	0.0286	1.0000
2	1.86	Chloride	BMB	0.022	0.2107	0.2107	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	0.026	0.24		



23 MBLK

Sample Name: MBLK
 Vial Number: R5
 Sample Type: Unknown
 Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current
 Quantif. Method: Anions Processing Method ISO
 Recording Time: 01/13/2023 12:31
 Run Time:

Injection Volume: 5.00
 Channel: CD
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000



Integration Results

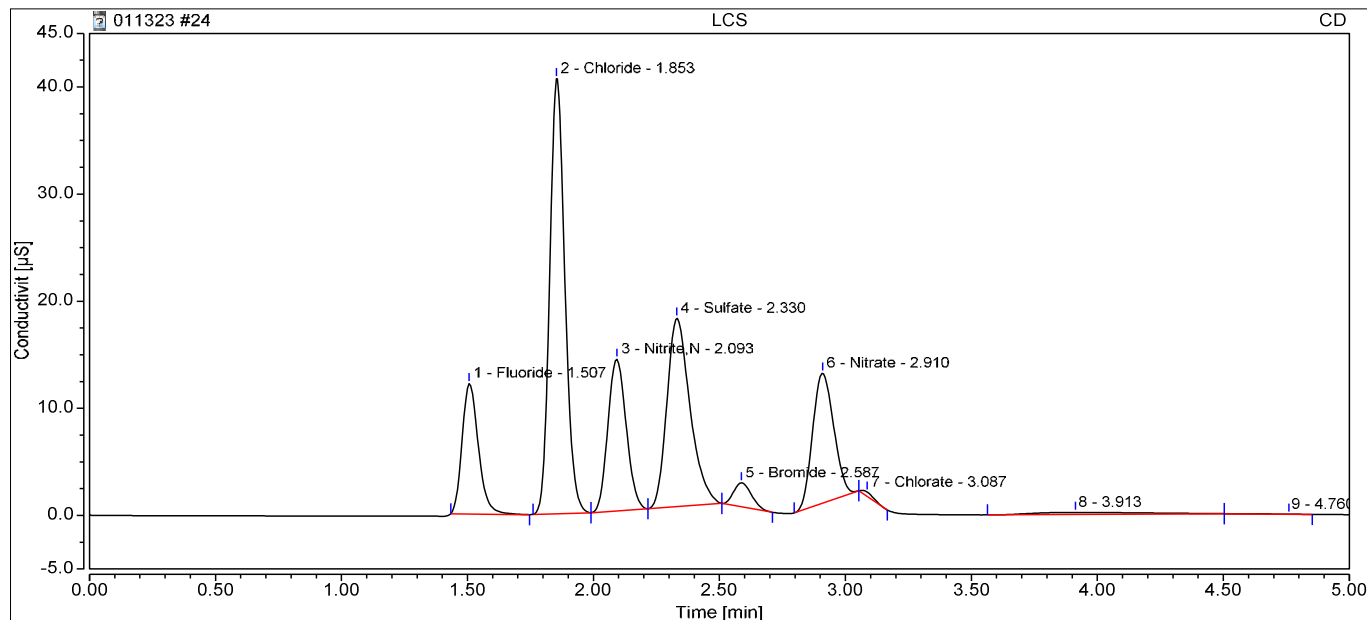
No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	1.86	Chloride	BMB	0.011	0.1340	0.1340	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	0.011	0.13		



24 LCS

Sample Name:	LCS	Injection Volume:	5.00
Vial Number:	R2	Channel:	CD
Sample Type:	Unknown	Wavelength:	n.a.
Control Program:	Anions Program ISO37mM 150mm short 0.4 Constant current	Bandwidth:	n.a.
Quantif. Method:	Anions Processing Method ISO	Dilution Factor:	1.0000
Recording Time:	01/13/2023 12:41	Sample Weight:	1.0000

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.916	4.3322	4.3322	1.0000
2	1.85	Chloride	BMB	2.832	20.1764	20.1764	1.0000
3	2.09	Nitrite,N	BMB	1.197	4.0792	4.0792	1.0000
4	2.33	Sulfate	BMB	1.873	20.1924	20.1924	1.0000
5	2.59	Bromide	BMB	0.185	3.8433	3.8433	1.0000
6	2.91	Nitrate	BMB	1.176	3.9245	3.9245	1.0000
7	3.09	Chlorate	BMB	0.020	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	8.198	56.55		



25 HS23010587-01DF2

Sample Name: HS23010587-01DF2

Vial Number: RD3

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 12:47

Run Time:

Injection Volume: 5.00

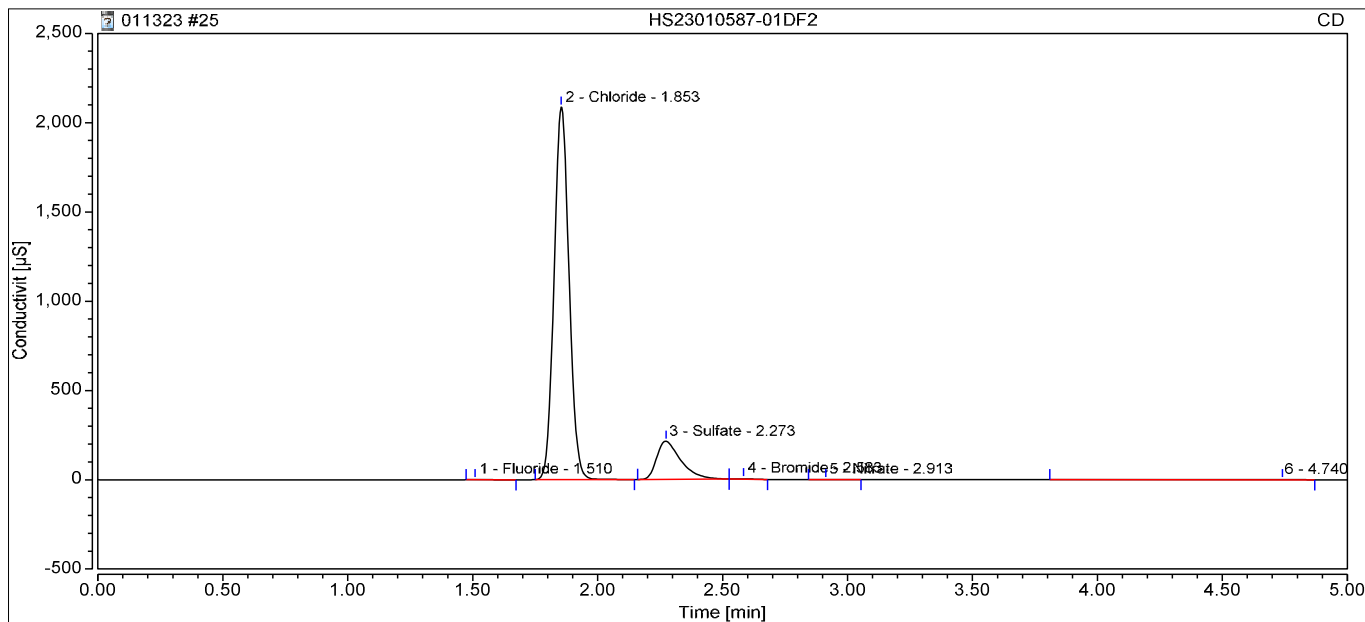
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 2.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.016	0.0859	0.1717	2.0000
2	1.85	Chloride	BMB	144.888	1029.6196	2059.2391	2.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	2.0000
3	2.27	Sulfate	BMB	23.817	255.7202	511.4404	2.0000
4	2.58	Bromide	BMB	0.169	3.5116	7.0232	2.0000
5	2.91	Nitrate	BMB	0.004	0.0283	0.0566	2.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	2.0000
Total:			0.000	168.894	2577.93		



26 HS23010587-01DF50

Sample Name: HS23010587-01DF50

Vial Number: RD4

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 12:52

Run Time:

Injection Volume: 5.00

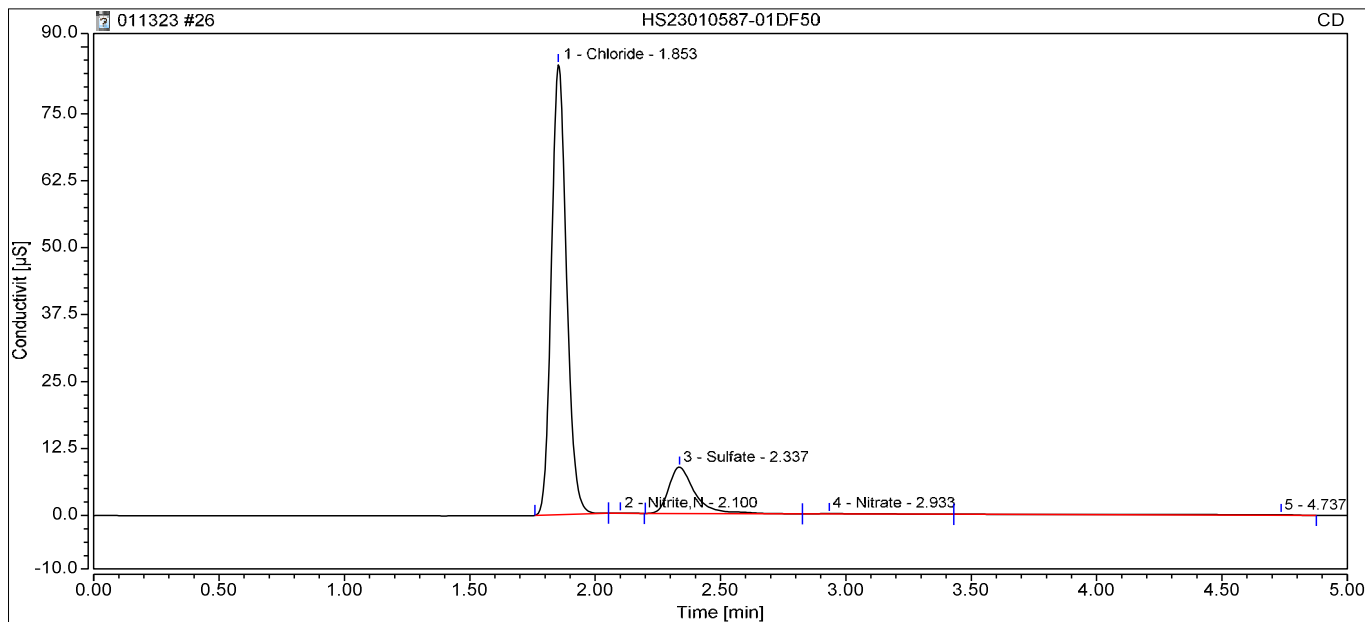
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 50.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
1	1.85	Chloride	BMB	5.882	41.8514	2092.5676	50.0000
2	2.10	Nitrite,N	BMB	0.002	0.0027	0.1333	50.0000
3	2.34	Sulfate	BMB	1.041	11.2570	562.8480	50.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	50.0000
4	2.93	Nitrate	BMB	0.016	0.0682	3.4123	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			0.000	6.941		2658.96	



27 HS23010587-02

Sample Name: HS23010587-02

Vial Number: RD5

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 12:57

Run Time:

Injection Volume: 5.00

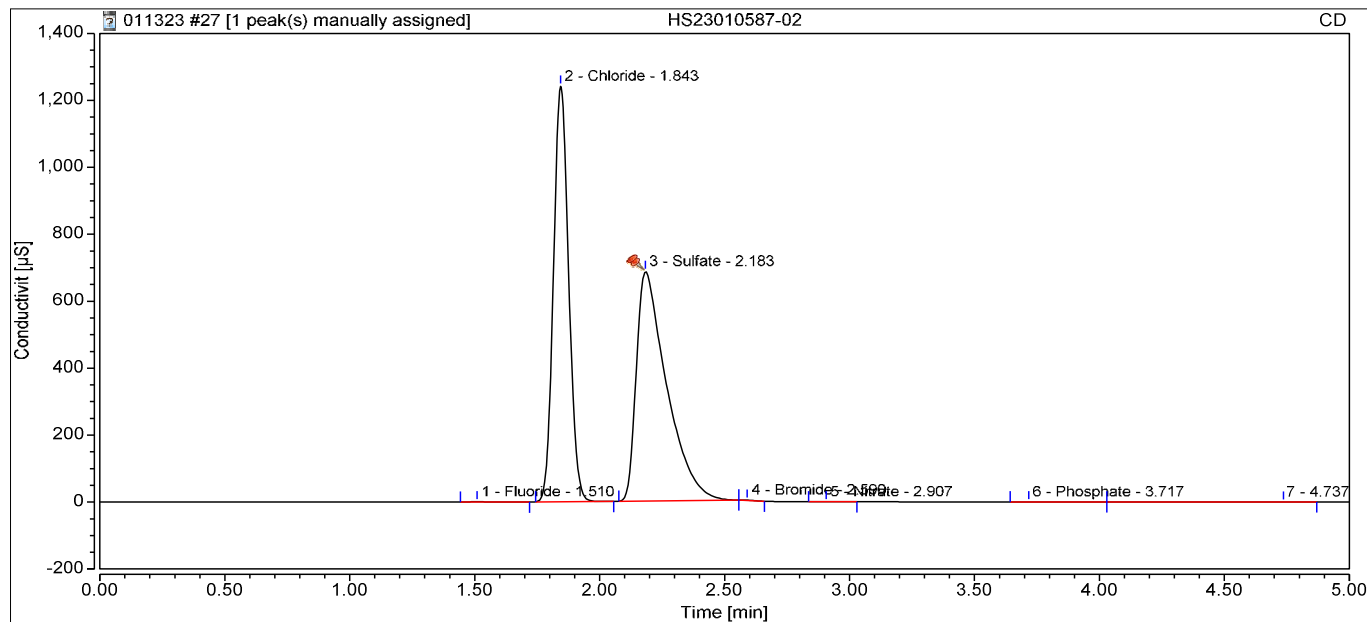
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 1.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.086	0.4155	0.4155	1.0000
2	1.84	Chloride	BMB	87.437	621.3755	621.3755	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.18	Sulfate	BMB^	95.861	1028.9965	1028.9965	1.0000
4	2.59	Bromide	BMB	0.041	0.8744	0.8744	1.0000
5	2.91	Nitrate	BMB	0.010	0.0452	0.0452	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
6	3.72	Phosphate	BMB	0.003	3.3704	3.3704	1.0000
Total:			0.000	183.438		1655.08	



28 HS23010587-02MS

Sample Name: HS23010587-02MS

Vial Number: RD6

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 13:02

Run Time:

Injection Volume: 5.00

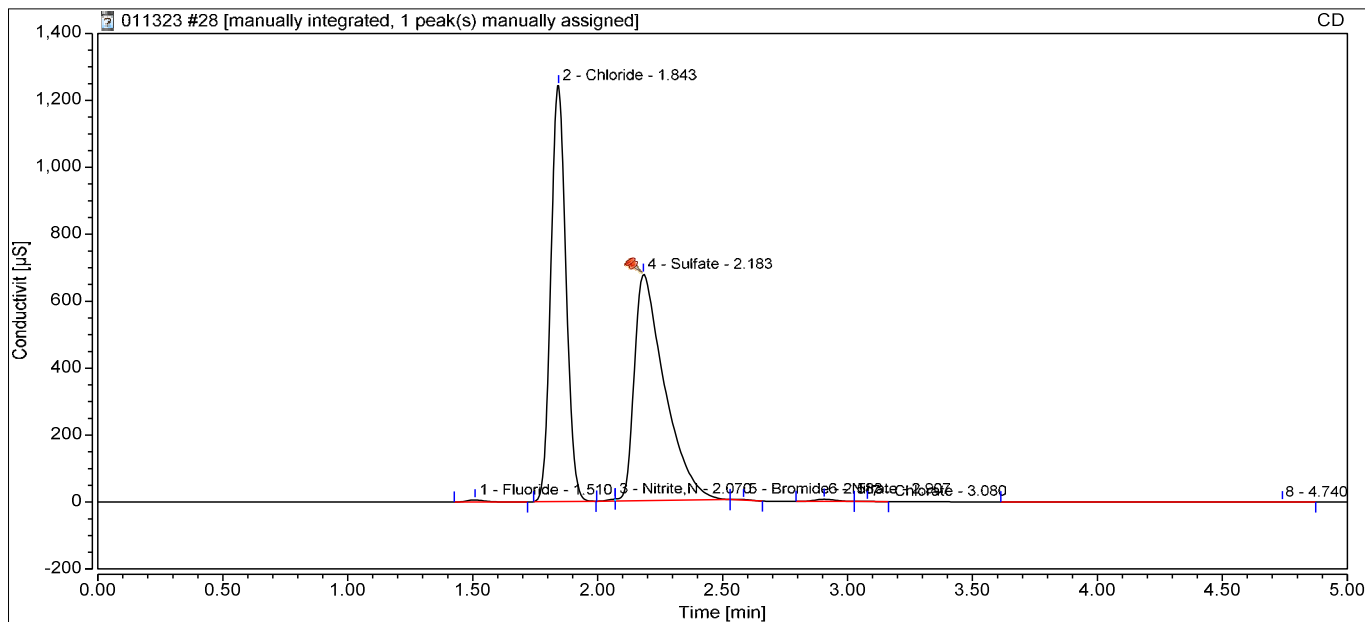
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 1.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.519	2.4612	2.4612	1.0000
2	1.84	Chloride	BMB	87.357	620.8049	620.8049	1.0000
3	2.07	Nitrite,N	BM *	0.175	0.5669	0.5669	1.0000
4	2.18	Sulfate	MB*^	95.033	1020.1093	1020.1093	1.0000
5	2.58	Bromide	BMB	0.138	2.8760	2.8760	1.0000
6	2.91	Nitrate	BMB	0.610	2.0423	2.0423	1.0000
7	3.08	Chlorate	BMB	0.027	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	183.859	1648.86		



29 HS23010587-02MSD

Sample Name: HS23010587-02MSD

Vial Number: RD7

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 13:08

Run Time:

Injection Volume: 5.00

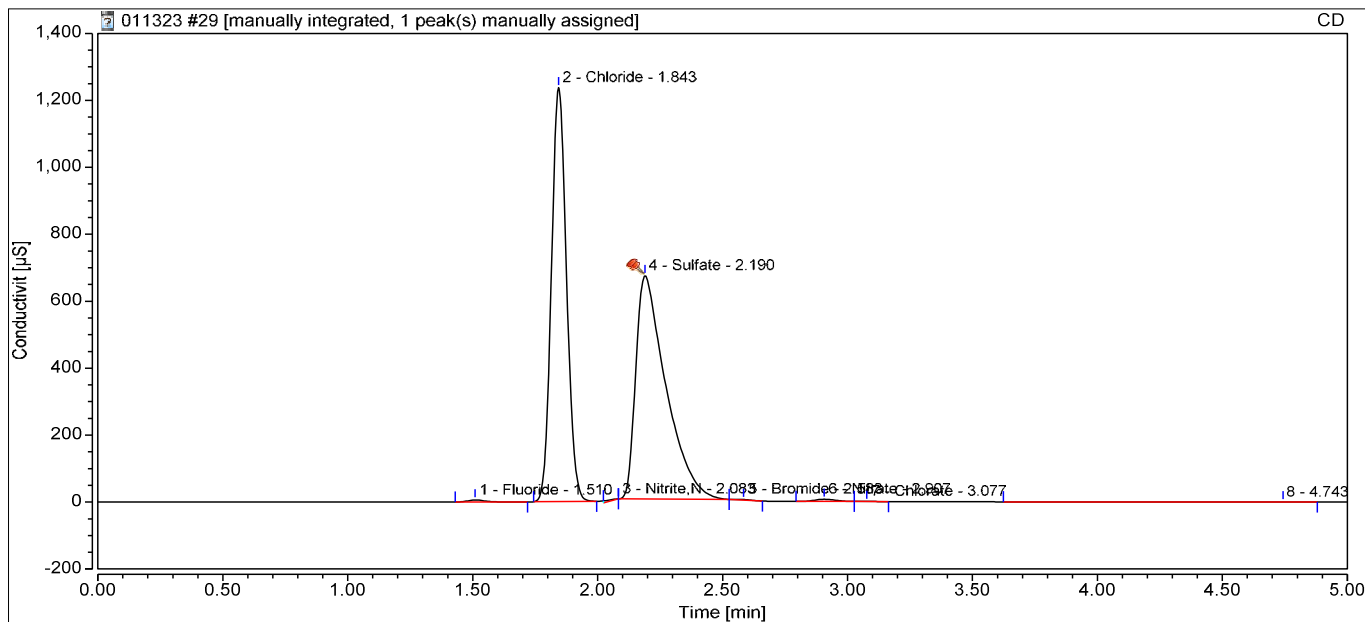
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 1.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.510	2.4197	2.4197	1.0000
2	1.84	Chloride	BMB	86.714	616.2401	616.2401	1.0000
3	2.08	Nitrite,N	MB*	0.195	0.6321	0.6321	1.0000
4	2.19	Sulfate	BMB^	92.908	997.3000	997.3000	1.0000
5	2.58	Bromide	BMB	0.135	2.8083	2.8083	1.0000
6	2.91	Nitrate	BMB	0.602	2.0154	2.0154	1.0000
7	3.08	Chlorate	BMB	0.027	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	181.092	1621.42		



30 HS23010587-02DF20

Sample Name: HS23010587-02DF20

Vial Number: RD8

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 13:13

Run Time:

Injection Volume: 5.00

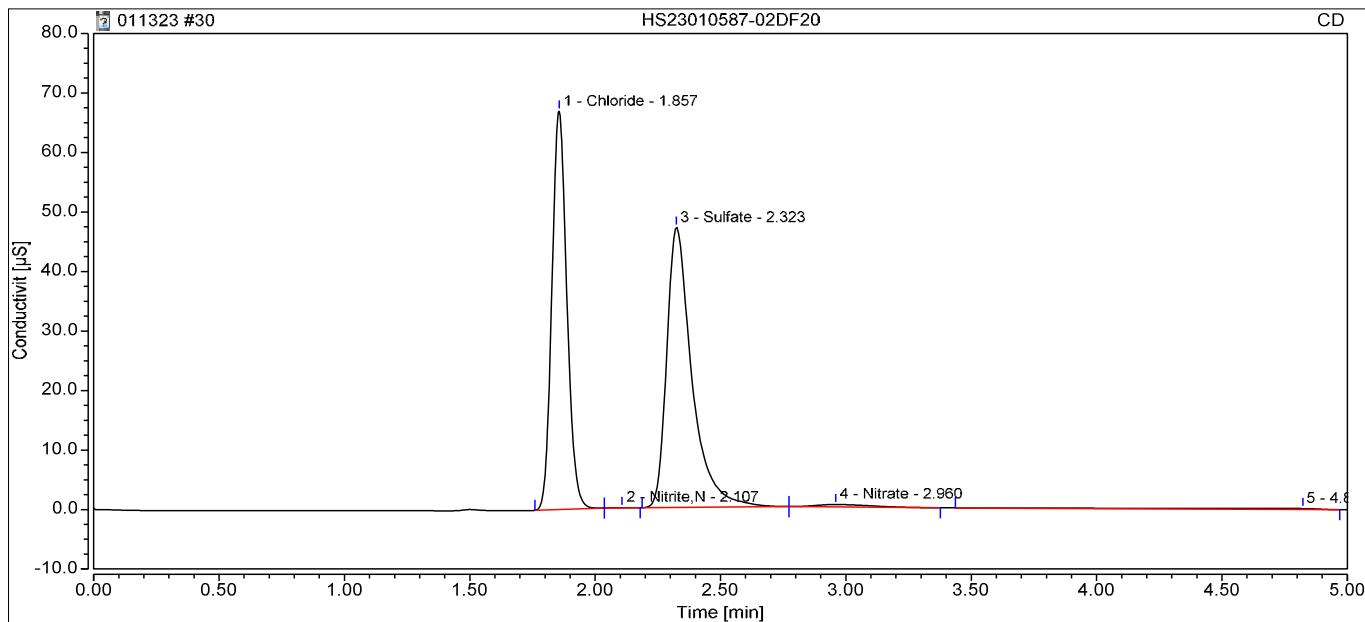
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 20.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	1.86	Chloride	BMB	4.633	32.9746	659.4924	20.0000
2	2.11	Nitrite,N	BMB	0.004	0.0091	0.1815	20.0000
3	2.32	Sulfate	BMB	5.477	58.8713	1177.4263	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
4	2.96	Nitrate	BMB	0.105	0.3626	7.2524	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			0.000	10.219		1844.35	



31 HS23010587-03DF2

Sample Name: HS23010587-03DF2

Vial Number: RE1

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 13:18

Run Time:

Injection Volume: 5.00

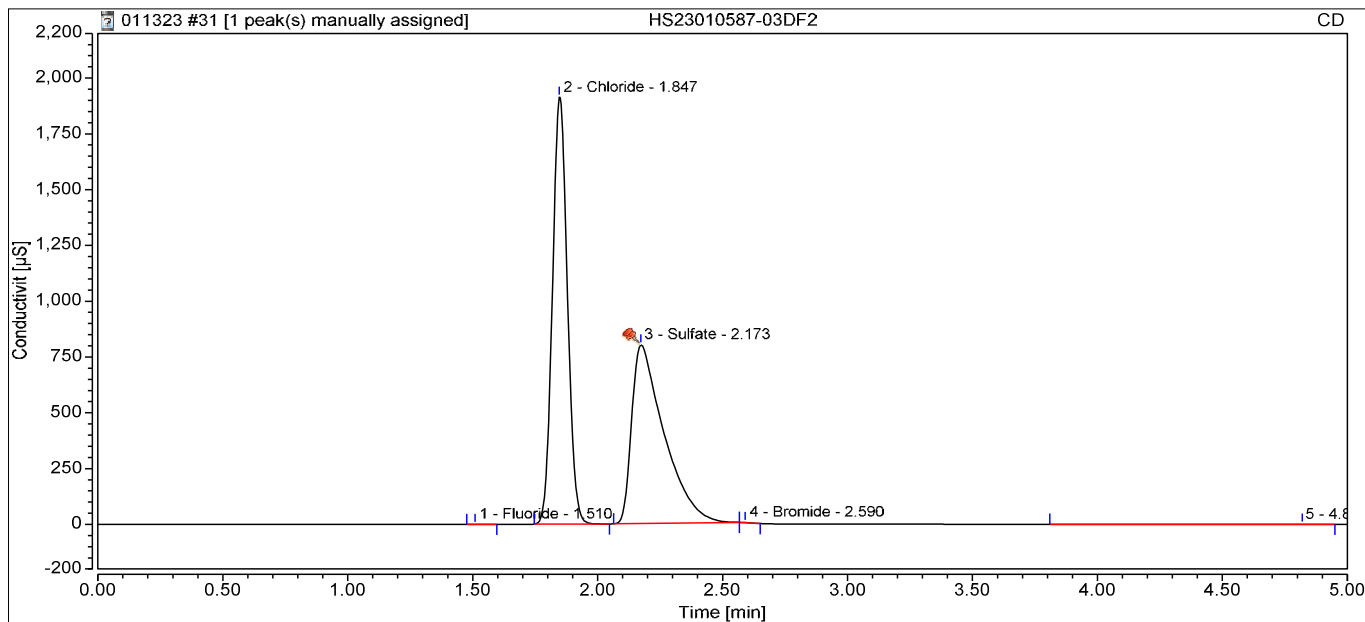
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 2.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.014	0.0771	0.1542	2.0000
2	1.85	Chloride	BMB	132.650	942.6579	1885.3158	2.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	2.0000
3	2.17	Sulfate	BMB^	119.833	1286.2958	2572.5915	2.0000
4	2.59	Bromide	BMB	0.016	0.3577	0.7153	2.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	2.0000
Total:			0.000	252.514		4458.78	



32 HS23010587-03DF50

Sample Name: HS23010587-03DF50

Vial Number: RE2

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 13:23

Run Time:

Injection Volume: 5.00

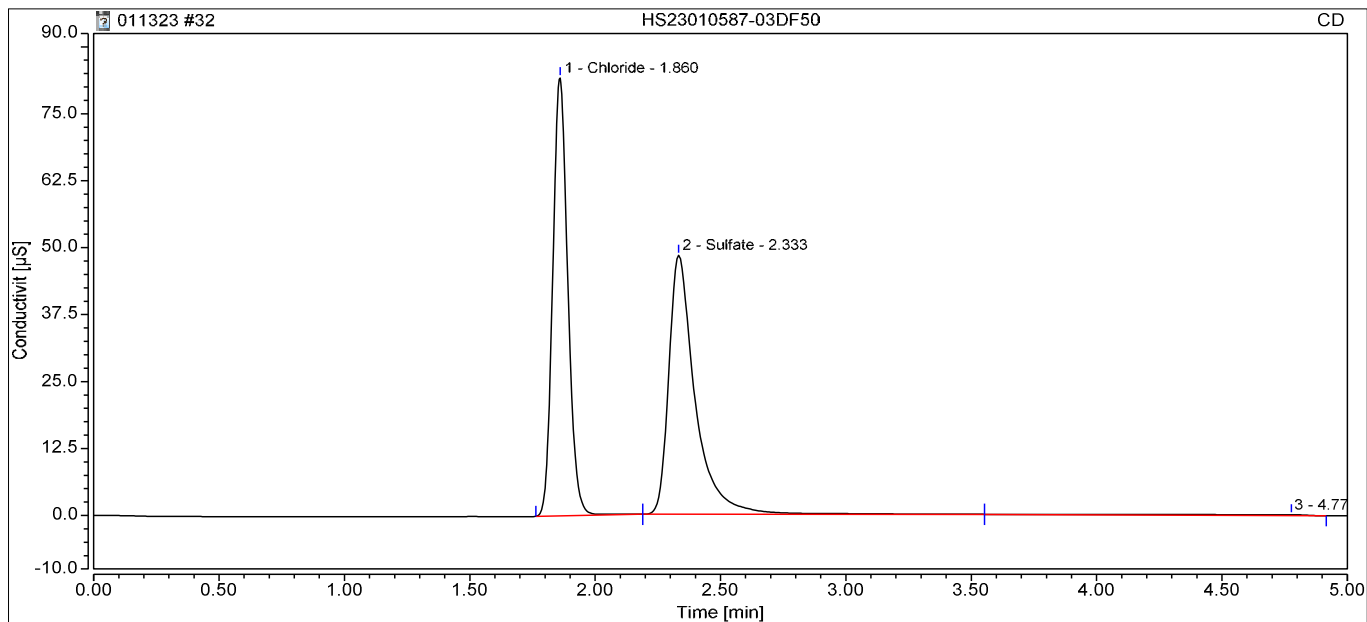
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 50.0000

Sample Weight: 1.0000



Integration Results

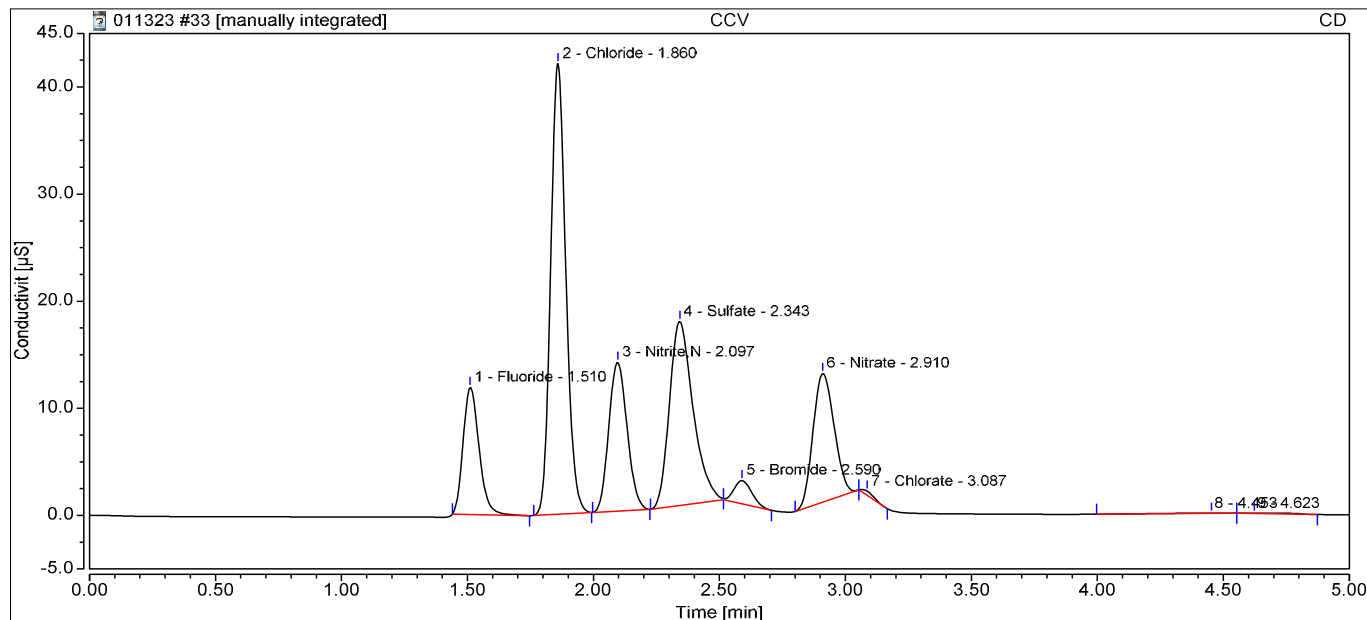
No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
1	1.86	Chloride	BMB	5.716	40.6743	2033.7171	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
2	2.33	Sulfate	BMB	5.896	63.3741	3168.7044	50.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			0.000	11.613	5202.42		



33 CCV

Sample Name: CCV
 Vial Number: R1
 Sample Type: Unknown
 Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current
 Quantif. Method: Anions Processing Method ISO
 Recording Time: 01/13/2023 13:39
 Run Time:

Injection Volume: 5.00
 Channel: CD
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000



Integration Results

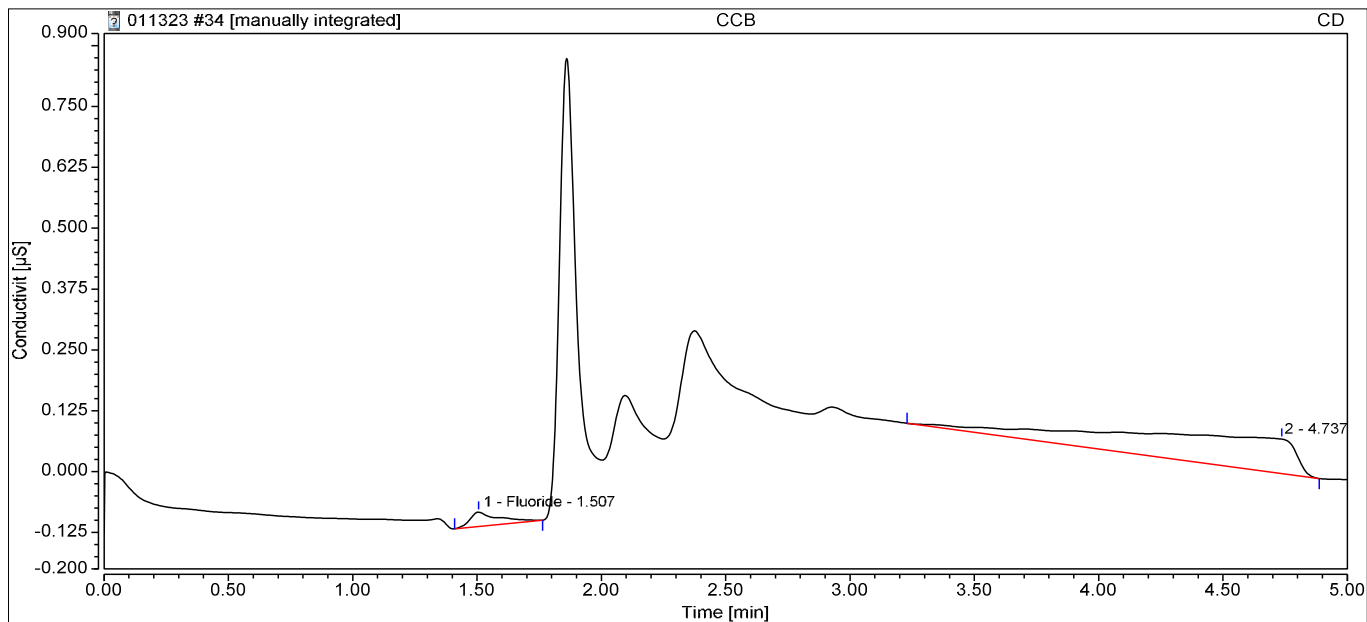
No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.874	4.1369	4.1369	1.0000
2	1.86	Chloride	BMB	2.926	20.8438	20.8438	1.0000
3	2.10	Nitrite,N	BMB	1.173	3.9927	3.9927	1.0000
4	2.34	Sulfate	BM *	1.866	20.1117	20.1117	1.0000
5	2.59	Bromide	MB*	0.178	3.7034	3.7034	1.0000
6	2.91	Nitrate	BMB	1.163	3.8810	3.8810	1.0000
7	3.09	Chlorate	BMB	0.021	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	8.200	56.67		



34 CCB

Sample Name: CCB
 Vial Number: R6
 Sample Type: Unknown
 Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current
 Quantif. Method: Anions Processing Method ISO
 Recording Time: 01/13/2023 13:50
 Run Time:

Injection Volume: 5.00
 Channel: CD
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.004	0.0288	0.0288	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	0.004	0.03		



35 HS23010587-04

Sample Name: HS23010587-04

Vial Number: RE3

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 13:55

Run Time:

Injection Volume: 5.00

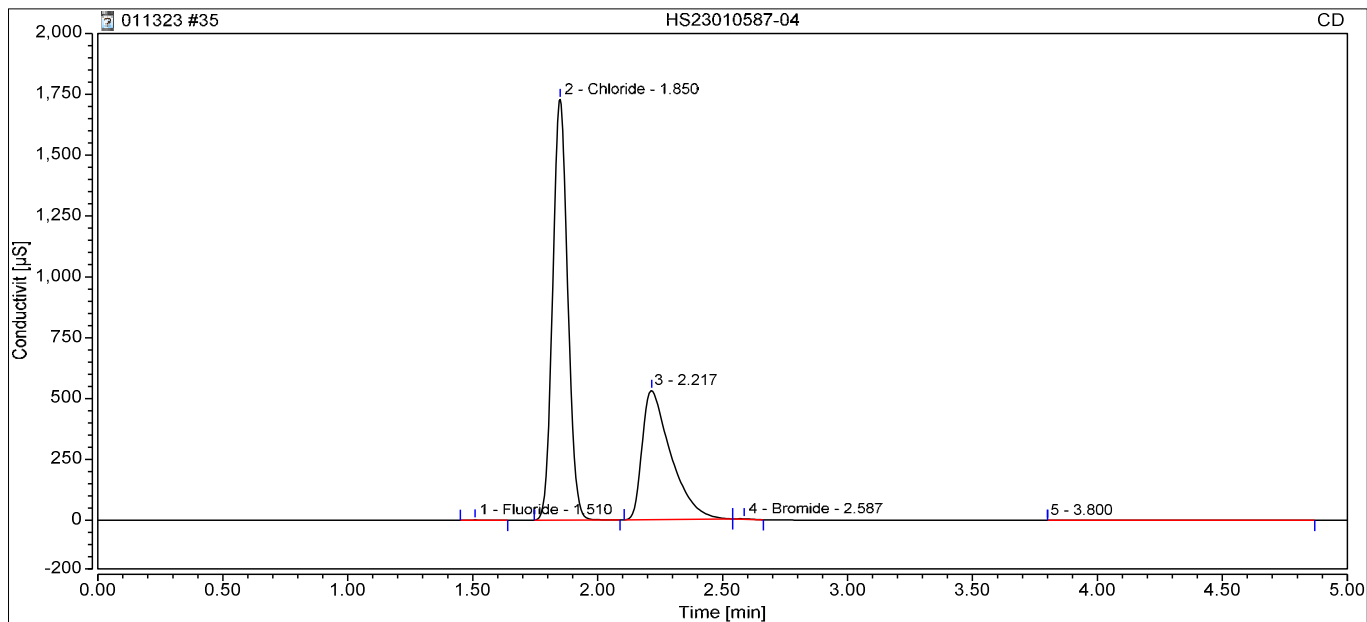
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 1.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.078	0.3761	0.3761	1.0000
2	1.85	Chloride	BMB	120.902	859.1729	859.1729	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
4	2.59	Bromide	BMB	0.090	1.8769	1.8769	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	121.069	861.43		



36 HS23010587-04DF20

Sample Name: HS23010587-04DF20

Vial Number: RE4

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 14:00

Run Time:

Injection Volume: 5.00

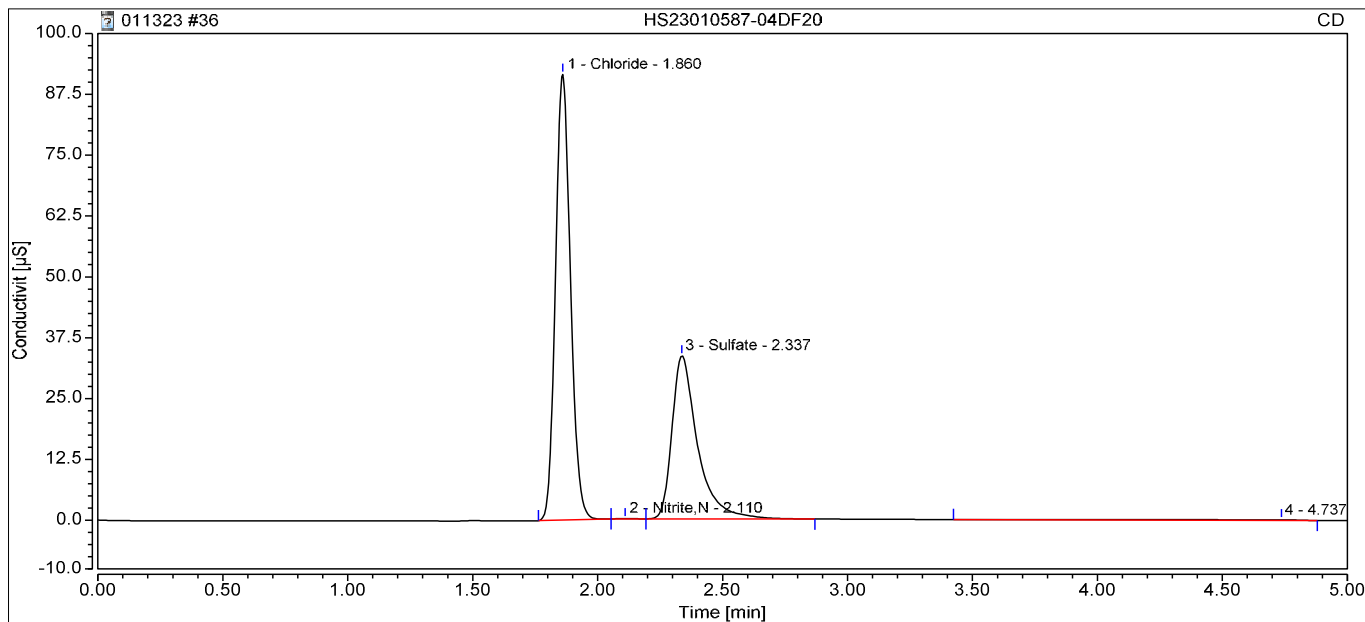
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 20.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	1.86	Chloride	BMB	6.361	45.2560	905.1197	20.0000
2	2.11	Nitrite,N	BMB	0.003	0.0057	0.1139	20.0000
3	2.34	Sulfate	BMB	3.975	42.7489	854.9780	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			0.000	10.339	1760.21		



37 HS23010587-05

Sample Name: HS23010587-05

Vial Number: RE5

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 14:05

Run Time:

Injection Volume: 5.00

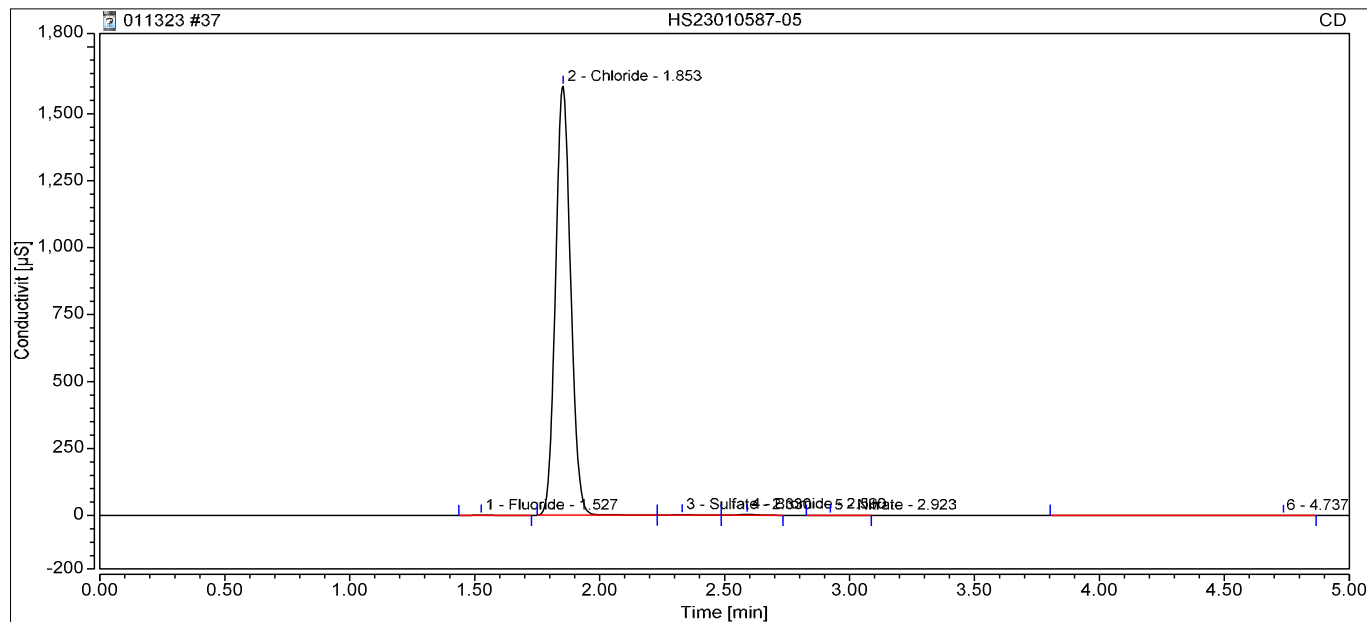
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 1.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.136	0.6525	0.6525	1.0000
2	1.85	Chloride	BMB	112.699	800.8875	800.8875	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.33	Sulfate	BMB	0.148	1.6776	1.6776	1.0000
4	2.59	Bromide	BMB	0.272	5.6386	5.6386	1.0000
5	2.92	Nitrate	BMB	0.004	0.0265	0.0265	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	113.259	808.88		



38 HS23010587-05DF20

Sample Name: HS23010587-05DF20

Vial Number: RE6

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 14:11

Run Time:

Injection Volume: 5.00

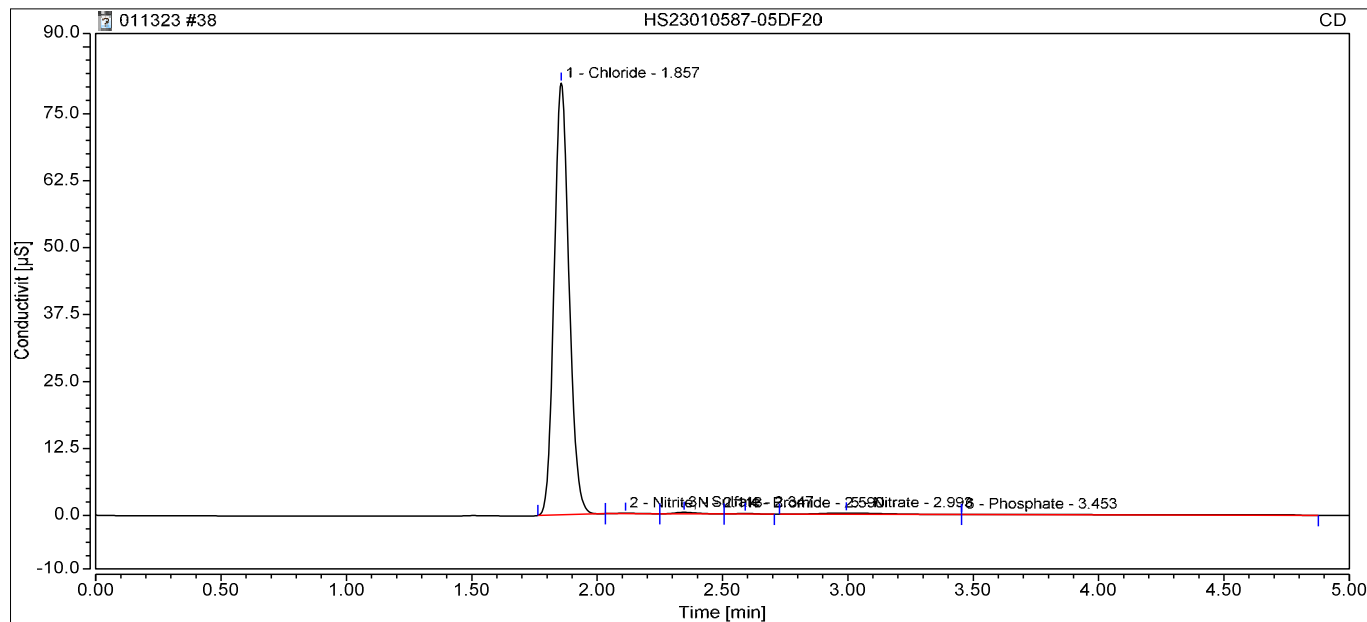
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 20.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	1.86	Chloride	BMB	5.565	39.5958	791.9156	20.0000
2	2.11	Nitrite, N	BMB	0.010	0.0284	0.5676	20.0000
3	2.35	Sulfate	BMB	0.029	0.4021	8.0418	20.0000
4	2.59	Bromide	BMB	0.010	0.2326	4.6522	20.0000
5	2.99	Nitrate	BMB	0.070	0.2453	4.9053	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
6	3.45	Phosphate	BMB	0.087	4.2156	84.3119	20.0000
Total:			0.000	5.771	894.39		



39 HS23010587-06

Sample Name: HS23010587-06

Vial Number: RE7

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 14:16

Run Time:

Injection Volume: 5.00

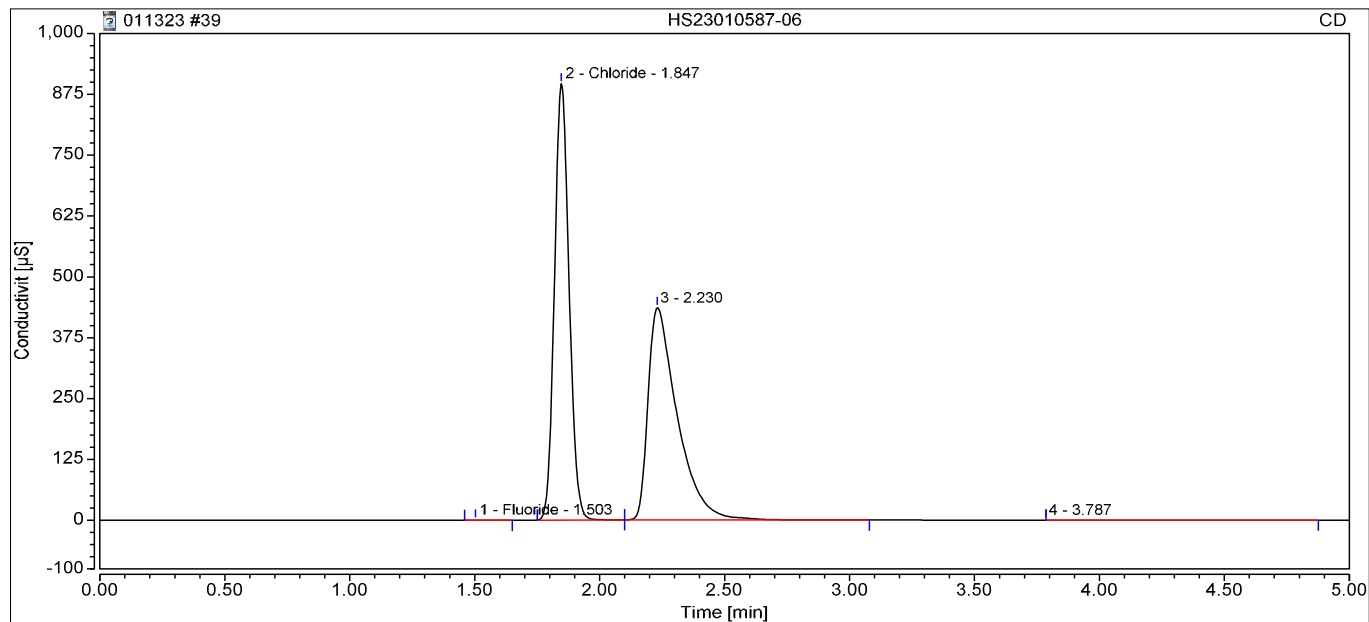
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 1.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.50	Fluoride	BMB	0.023	0.1181	0.1181	1.0000
2	1.85	Chloride	BMB	60.726	431.5671	431.5671	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			0.000	60.749	431.69		



40 HS23010587-06DF20

Sample Name: HS23010587-06DF20

Vial Number: RE8

Sample Type: Unknown

Control Program: Anions Program ISO37mM 150mm short 0.4 Constant current

Quantif. Method: Anions Processing Method ISO

Recording Time: 01/13/2023 14:21

Run Time:

Injection Volume: 5.00

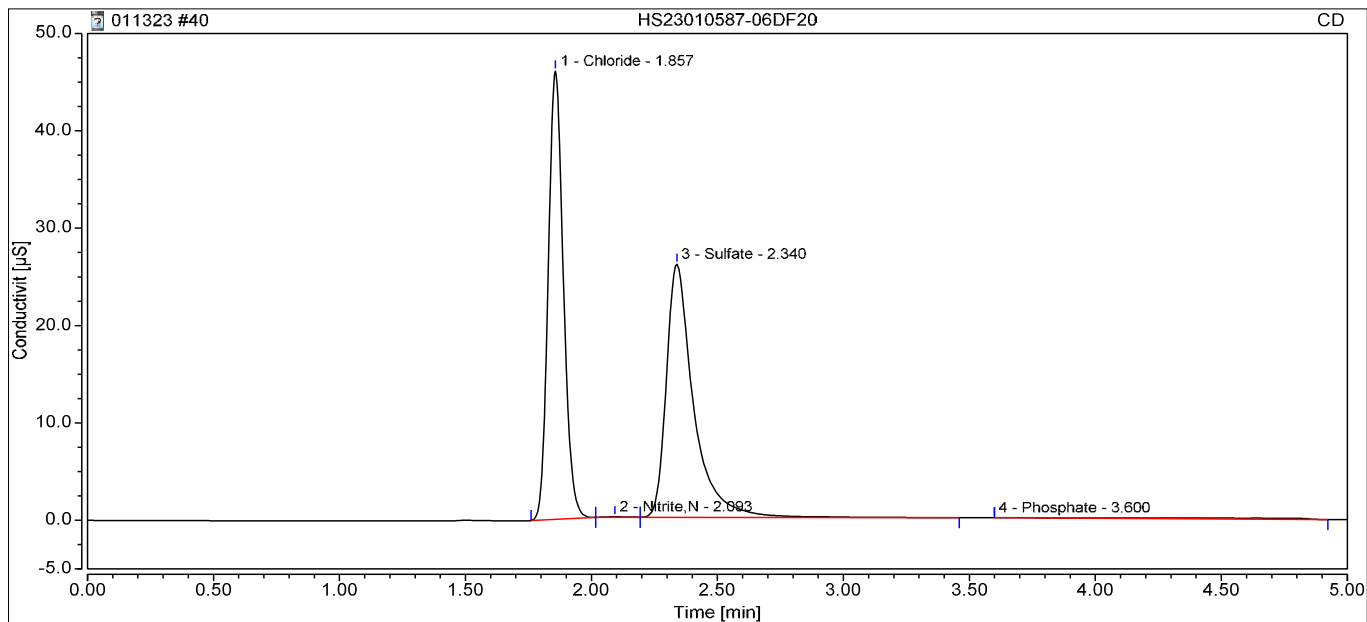
Channel: CD

Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 20.0000

Sample Weight: 1.0000



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	1.86	Chloride	BMB	3.202	22.8045	456.0901	20.0000
2	2.09	Nitrite, N	BMB	0.005	0.0114	0.2284	20.0000
3	2.34	Sulfate	BMB	3.257	35.0431	700.8620	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
4	3.60	Phosphate	BMB	0.080	4.1492	82.9843	20.0000
Total:			0.000	6.544	1240.16		



HS23010587 Eurofin Lab J112785-1
Std_Tal_L4 Final Report

ALS WO# HS23010587





ANALYTICAL REPORT

PREPARED FOR

Attn: Dane Wacasey
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston TX 77099

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JOB DESCRIPTION

HS23010587

JOB NUMBER

410-112785-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Kelly Bauer, Project Manager
Kelly.Bauer@et.eurofinsus.com
717 556-7262

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Table of Contents

Cover Page	1
Data Summaries	5
Definitions	5
Case Narrative	6
Detection Summary	7
Client Sample Results	8
Default Detection Limits	9
QC Sample Results	10
QC Association	11
Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Manual Integration Summary	16
Reagent Traceability	18
Organic Sample Data	19
GC VOA	19
Method RSK-175 CO2 DOD	19
Method RSK-175 CO2 DOD QC Summary	20
Method RSK-175 CO2 DOD Sample Data	26
Standards Data	45
Method RSK-175 CO2 DOD ICAL Data	45
Method RSK-175 CO2 DOD CCAL Data	60
Raw QC Data	80
Method RSK-175 CO2 DOD Blank Data	80
Method RSK-175 CO2 DOD LCS/LCSD Data	86
Method RSK-175 CO2 DOD Run Logs	98
Method RSK-175 CO2 DOD Prep Data	101
Shipping and Receiving Documents	104
Client Chain of Custody	105
Sample Receipt Checklist	107

Definitions/Glossary

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Job Narrative
410-112785-1**Receipt**

The samples were received on 1/19/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Detection Summary

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Client Sample ID: HS23010587-01

Lab Sample ID: 410-112785-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Carbon dioxide	430000	D	60000		13000	ug/L		5		RSK-175	Total/NA

Client Sample ID: HS23010587-02

Lab Sample ID: 410-112785-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Carbon dioxide	330000	D	60000		13000	ug/L		5		RSK-175	Total/NA

Client Sample ID: HS23010587-03

Lab Sample ID: 410-112785-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Carbon dioxide	160000	M	12000		2600	ug/L		1		RSK-175	Total/NA

Client Sample ID: HS23010587-04

Lab Sample ID: 410-112785-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Carbon dioxide	67000		12000		2600	ug/L		1		RSK-175	Total/NA

Client Sample ID: HS23010587-05

Lab Sample ID: 410-112785-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Carbon dioxide	360000	D	60000		13000	ug/L		5		RSK-175	Total/NA

Client Sample ID: HS23010587-06

Lab Sample ID: 410-112785-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Carbon dioxide	110000		12000		2600	ug/L		1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.



Client Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Client Sample ID: HS23010587-01

Lab Sample ID: 410-112785-1

Date Collected: 01/12/23 07:25

Matrix: Water

Date Received: 01/19/23 09:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	430000	D	60000		13000	ug/L		01/20/23 13:17	5

Client Sample ID: HS23010587-02

Lab Sample ID: 410-112785-2

Date Collected: 01/12/23 08:15

Matrix: Water

Date Received: 01/19/23 09:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	330000	D	60000		13000	ug/L		01/20/23 13:24	5

Client Sample ID: HS23010587-03

Lab Sample ID: 410-112785-3

Date Collected: 01/12/23 09:05

Matrix: Water

Date Received: 01/19/23 09:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	160000	M	12000		2600	ug/L		01/20/23 10:56	1

Client Sample ID: HS23010587-04

Lab Sample ID: 410-112785-4

Date Collected: 01/12/23 09:55

Matrix: Water

Date Received: 01/19/23 09:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	67000		12000		2600	ug/L		01/20/23 11:03	1

Client Sample ID: HS23010587-05

Lab Sample ID: 410-112785-5

Date Collected: 01/12/23 10:45

Matrix: Water

Date Received: 01/19/23 09:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	360000	D	60000		13000	ug/L		01/20/23 13:32	5

Client Sample ID: HS23010587-06

Lab Sample ID: 410-112785-6

Date Collected: 01/12/23 11:35

Matrix: Water

Date Received: 01/19/23 09:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	110000		12000		2600	ug/L		01/20/23 11:19	1



Default Detection Limits

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Method: RSK-175 - Dissolved Gases (GC)**Prep: RSK-175**

Analyte	LOQ	DL	Units
Carbon dioxide	12000	2600	ug/L



QC Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-337244/1-A
Matrix: Water
Analysis Batch: 337247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337244

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	2600	U	12000		2600	ug/L		01/20/23 09:00	1

Lab Sample ID: LCS 410-337244/2-A
Matrix: Water
Analysis Batch: 337247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	35800	35200		ug/L		98	80 - 122

Lab Sample ID: LCSD 410-337244/3-A
Matrix: Water
Analysis Batch: 337247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 337244

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	35800	35400		ug/L		99	80 - 122	0	20

Lab Sample ID: MB 410-337359/1-A
Matrix: Water
Analysis Batch: 337247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337359

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	2600	U	12000		2600	ug/L		01/20/23 12:46	1

Lab Sample ID: LCS 410-337359/2-A
Matrix: Water
Analysis Batch: 337247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	35800	35800		ug/L		100	80 - 122

Lab Sample ID: LCSD 410-337359/3-A
Matrix: Water
Analysis Batch: 337247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 337359

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	35800	33000		ug/L		92	80 - 122	8	20



QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

GC VOA

Prep Batch: 337244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-112785-3	HS23010587-03	Total/NA	Water	RSK-175	
410-112785-4	HS23010587-04	Total/NA	Water	RSK-175	
410-112785-6	HS23010587-06	Total/NA	Water	RSK-175	
MB 410-337244/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-337244/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-337244/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 337247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-112785-1	HS23010587-01	Total/NA	Water	RSK-175	337359
410-112785-2	HS23010587-02	Total/NA	Water	RSK-175	337359
410-112785-3	HS23010587-03	Total/NA	Water	RSK-175	337244
410-112785-4	HS23010587-04	Total/NA	Water	RSK-175	337244
410-112785-5	HS23010587-05	Total/NA	Water	RSK-175	337359
410-112785-6	HS23010587-06	Total/NA	Water	RSK-175	337244
MB 410-337244/1-A	Method Blank	Total/NA	Water	RSK-175	337244
MB 410-337359/1-A	Method Blank	Total/NA	Water	RSK-175	337359
LCS 410-337244/2-A	Lab Control Sample	Total/NA	Water	RSK-175	337244
LCS 410-337359/2-A	Lab Control Sample	Total/NA	Water	RSK-175	337359
LCSD 410-337244/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	337244
LCSD 410-337359/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	337359

Prep Batch: 337359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-112785-1	HS23010587-01	Total/NA	Water	RSK-175	
410-112785-2	HS23010587-02	Total/NA	Water	RSK-175	
410-112785-5	HS23010587-05	Total/NA	Water	RSK-175	
MB 410-337359/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-337359/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-337359/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	



Lab Chronicle

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Client Sample ID: HS23010587-01

Lab Sample ID: 410-112785-1

Date Collected: 01/12/23 07:25

Matrix: Water

Date Received: 01/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			337359	MB4Z	ELLE	01/20/23 12:37
Total/NA	Analysis	RSK-175		5	337247	MB4Z	ELLE	01/20/23 13:17

Client Sample ID: HS23010587-02

Lab Sample ID: 410-112785-2

Date Collected: 01/12/23 08:15

Matrix: Water

Date Received: 01/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			337359	MB4Z	ELLE	01/20/23 12:37
Total/NA	Analysis	RSK-175		5	337247	MB4Z	ELLE	01/20/23 13:24

Client Sample ID: HS23010587-03

Lab Sample ID: 410-112785-3

Date Collected: 01/12/23 09:05

Matrix: Water

Date Received: 01/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			337244	MB4Z	ELLE	01/20/23 08:38
Total/NA	Analysis	RSK-175		1	337247	MB4Z	ELLE	01/20/23 10:56

Client Sample ID: HS23010587-04

Lab Sample ID: 410-112785-4

Date Collected: 01/12/23 09:55

Matrix: Water

Date Received: 01/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			337244	MB4Z	ELLE	01/20/23 08:38
Total/NA	Analysis	RSK-175		1	337247	MB4Z	ELLE	01/20/23 11:03

Client Sample ID: HS23010587-05

Lab Sample ID: 410-112785-5

Date Collected: 01/12/23 10:45

Matrix: Water

Date Received: 01/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			337359	MB4Z	ELLE	01/20/23 12:37
Total/NA	Analysis	RSK-175		5	337247	MB4Z	ELLE	01/20/23 13:32

Client Sample ID: HS23010587-06

Lab Sample ID: 410-112785-6

Date Collected: 01/12/23 11:35

Matrix: Water

Date Received: 01/19/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			337244	MB4Z	ELLE	01/20/23 08:38
Total/NA	Analysis	RSK-175		1	337247	MB4Z	ELLE	01/20/23 11:19

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Accreditation/Certification Summary

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24



Method Summary

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

01223073

Client: ALS Group USA, Corp
Project/Site: HS23010587

Job ID: 410-112785-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-112785-1	HS23010587-01	Water	01/12/23 07:25	01/19/23 09:50
410-112785-2	HS23010587-02	Water	01/12/23 08:15	01/19/23 09:50
410-112785-3	HS23010587-03	Water	01/12/23 09:05	01/19/23 09:50
410-112785-4	HS23010587-04	Water	01/12/23 09:55	01/19/23 09:50
410-112785-5	HS23010587-05	Water	01/12/23 10:45	01/19/23 09:50
410-112785-6	HS23010587-06	Water	01/12/23 11:35	01/19/23 09:50



GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-112785-1

SDG No.: _____

Instrument ID: 19506-B Analysis Batch Number: 331616Lab Sample ID: IC 410-331616/6 Client Sample ID: _____Date Analyzed: 12/30/22 17:05 Lab File ID: 312022_12_30B.0006.d GC Column: HP Plot ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.94	Peak assignment corrected	WN7O	12/30/22 17:19

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-112785-1

SDG No.: _____

Instrument ID: 19506-B Analysis Batch Number: 337247Lab Sample ID: 410-112785-3 Client Sample ID: HS23010587-03Date Analyzed: 01/20/23 10:56 Lab File ID: 312023_01_20B.0016.d GC Column: HP Plot ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	2.02	Peak assignment corrected	MB4Z	01/20/23 11:04



Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-112785-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EPH_CO2ICV_00002	09/29/23	09/29/22	DI Water, Lot In House	1 mL	EPH_CO2XX_00002	0.0018 g	Carbon dioxide	547000 ppb
.EPH_CO2XX_00002	09/29/23		Air Products, Lot A214157		(Purchased Reagent)		Carbon dioxide	30.3889 %
EPH_CO2MS_00004	07/16/23	07/18/22	DI Water, Lot In House	1 g	EPH_CO2CRV_00002	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00002	07/16/23		Praxair, Lot 4-11-18		(Purchased Reagent)		Carbon dioxide	99.5 %

Method RSK-175 CO2 DOD

Dissolved Gases (GC) by Method
RSK_175_CO2 DOD

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERYLab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-112785-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 312023_01_20B.0006.d

Lab ID: LCS 410-337244/2-A

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	35200	98	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175



FORM III
GC VOA LAB CONTROL SAMPLE RECOVERYLab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-112785-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 312023_01_20B.0022.d

Lab ID: LCS 410-337359/2-A

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	35800	100	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175



FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 312023_01_20B.0007.d

Lab ID: LCSD 410-337244/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Carbon dioxide	35800	35400	99	0	20	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175



FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-112785-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: 312023_01_20B.0023.d

Lab ID: LCSD 410-337359/3-A

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Carbon dioxide	35800	33000	92	8	20	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175



FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: 312023_01_20B.0005.d Lab Sample ID: MB 410-337244/1-A

Matrix: Water Heated Purge: (Y/N) N

Instrument ID: 19506-B Date Analyzed: 01/20/2023 09:00

GC Column: HP Plot ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-337244/2-A	312023_01_2 0B.0006.d	01/20/2023 09:07
	LCSD 410-337244/3-A	312023_01_2 0B.0007.d	01/20/2023 09:16
HS23010587-03	410-112785-3	312023_01_2 0B.0016.d	01/20/2023 10:56
HS23010587-04	410-112785-4	312023_01_2 0B.0017.d	01/20/2023 11:03
HS23010587-06	410-112785-6	312023_01_2 0B.0019.d	01/20/2023 11:19



FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-112785-1

SDG No.:

Lab File ID: 312023_01_20B.0021.d

Lab Sample ID: MB 410-337359/1-A

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 19506-B

Date Analyzed: 01/20/2023 12:46

GC Column: HP Plot ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-337359/2-A	312023_01_20B.0022.d	01/20/2023 12:53
	LCSD 410-337359/3-A	312023_01_20B.0023.d	01/20/2023 13:01
HS23010587-01	410-112785-1	312023_01_20B.0024.d	01/20/2023 13:17
HS23010587-02	410-112785-2	312023_01_20B.0025.d	01/20/2023 13:24
HS23010587-05	410-112785-5	312023_01_20B.0026.d	01/20/2023 13:32



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HS23010587-01 Lab Sample ID: 410-112785-1

Matrix: Water Lab File ID: 312023_01_20B.0024.d

Analysis Method: RSK-175 Date Collected: 01/12/2023 07:25

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 13:17

Soil Aliquot Vol: _____ Dilution Factor: 5

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: 7.0

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	430000	D	60000	13000



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0024.d
 Lims ID: 410-112785-B-1-A DL
 Client ID: HS23010587-01
 Sample Type: Client
 Inject. Date: 20-Jan-2023 13:17:00 ALS Bottle#: 0 Worklist Smp#: 24
 Purge Vol: 1.000 mL Dil. Factor: 5.0000
 Sample Info:
 Misc. Info.: 410-0074669-024
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 13:26:52 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.051	-0.014	343897795H	86832	



Report Date: 20-Jan-2023 13:27:13

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0024.d

Injection Date: 20-Jan-2023 13:17:00

Instrument ID: 19506-B

Operator ID:

Lims ID: 410-112785-B-1-A DL

Lab Sample ID: 410-112785-1

Worklist Smp#: 24

Client ID: HS23010587-01

Purge Vol: 1.000 mL

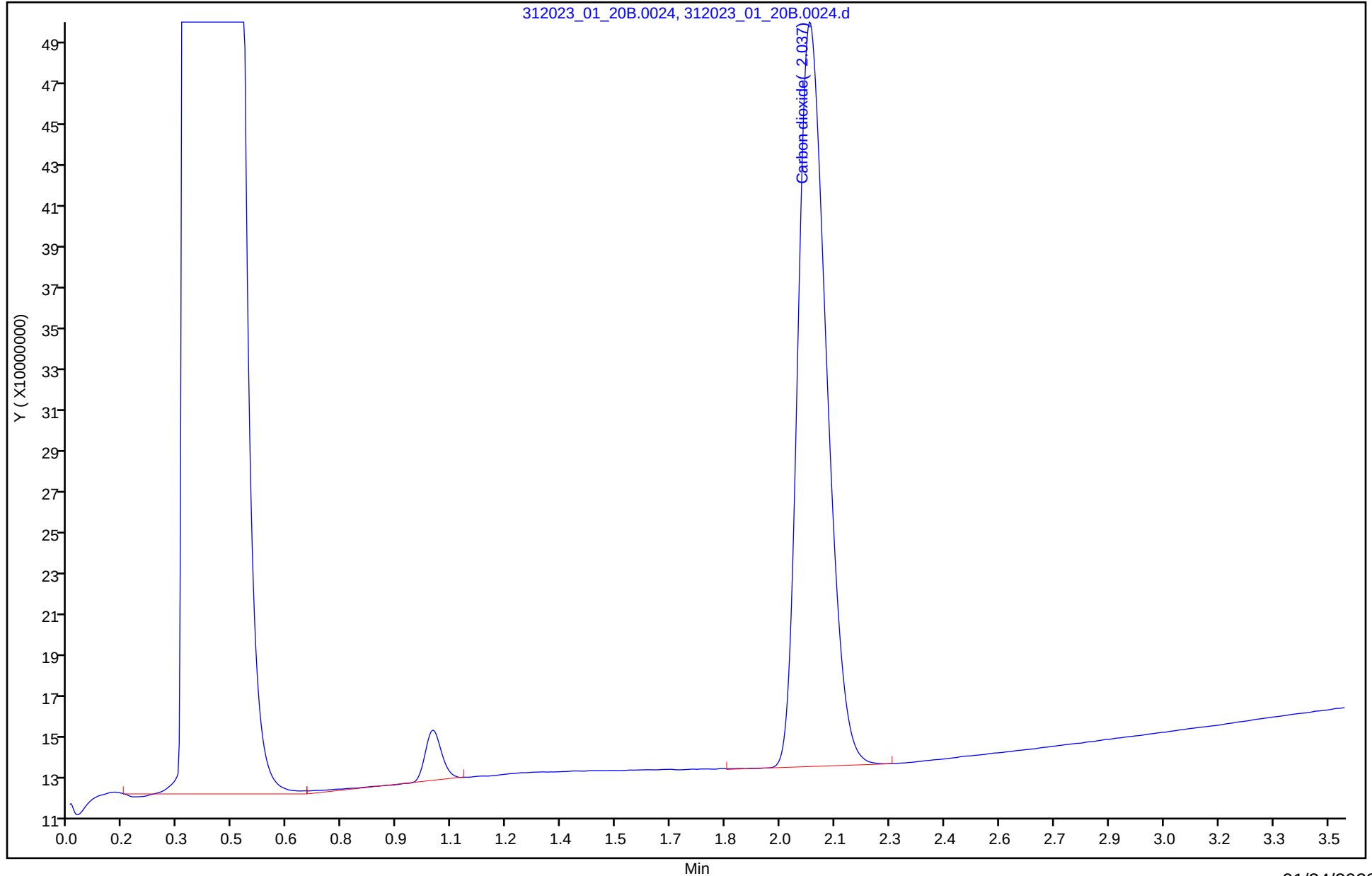
Dil. Factor: 5.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HS23010587-02 Lab Sample ID: 410-112785-2

Matrix: Water Lab File ID: 312023_01_20B.0025.d

Analysis Method: RSK-175 Date Collected: 01/12/2023 08:15

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 13:24

Soil Aliquot Vol: _____ Dilution Factor: 5

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: 7.0

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	330000	D	60000	13000



Report Date: 20-Jan-2023 13:34:47

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0025.d
 Lims ID: 410-112785-B-2-A DL
 Client ID: HS23010587-02
 Sample Type: Client
 Inject. Date: 20-Jan-2023 13:24:00 ALS Bottle#: 0 Worklist Smp#: 25
 Purge Vol: 1.000 mL Dil. Factor: 5.0000
 Sample Info:
 Misc. Info.: 410-0074669-025
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 13:34:37 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.044	2.051	-0.007	263393764H	66505	



Report Date: 20-Jan-2023 13:34:47

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0025.d

Injection Date: 20-Jan-2023 13:24:00

Instrument ID: 19506-B

Operator ID:

Lims ID: 410-112785-B-2-A DL

Lab Sample ID: 410-112785-2

Worklist Smp#: 25

Client ID: HS23010587-02

Purge Vol: 1.000 mL

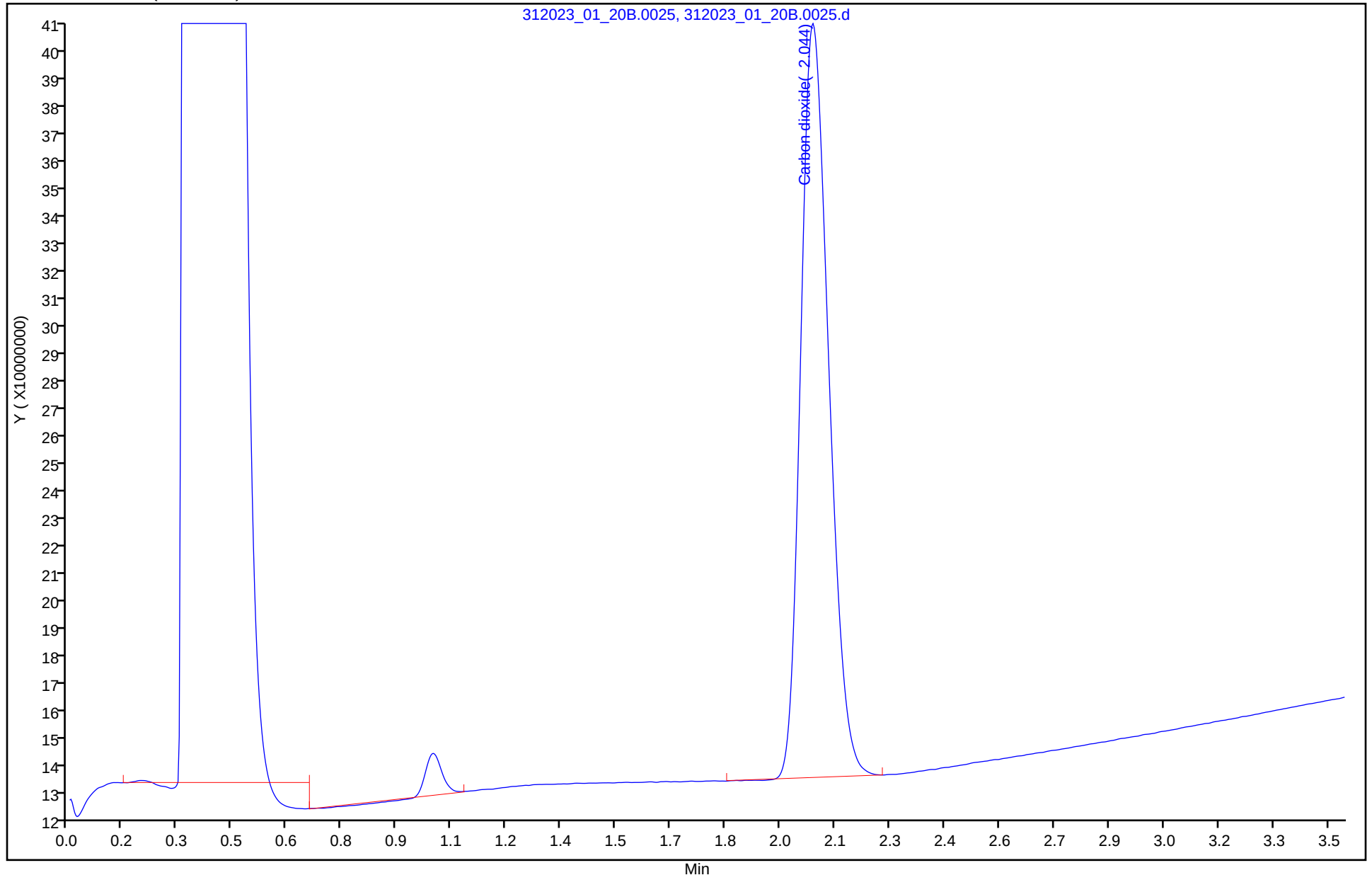
Dil. Factor: 5.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HS23010587-03 Lab Sample ID: 410-112785-3

Matrix: Water Lab File ID: 312023_01_20B.0016.d

Analysis Method: RSK-175 Date Collected: 01/12/2023 09:05

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 10:56

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: 7.0

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	160000	M	12000	2600

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0016.d
 Lims ID: 410-112785-A-3-A
 Client ID: HS23010587-03
 Sample Type: Client
 Inject. Date: 20-Jan-2023 10:56:00 ALS Bottle#: 0 Worklist Smp#: 16
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-016
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 11:33:43 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

First Level Reviewer: MB4Z

Date: 20-Jan-2023 11:04:27

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.018	2.051	-0.033	617652106H	155953	a

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

a - User Assigned ID



Report Date: 20-Jan-2023 12:25:06

Chrom Revision: 2.3 09-Jan-2023 13:34:20

01223092

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0016.d

Injection Date: 20-Jan-2023 10:56:00

Instrument ID: 19506-B

Operator ID:

Lims ID: 410-112785-A-3-A

Lab Sample ID: 410-112785-3

Worklist Smp#: 16

Client ID: HS23010587-03

Purge Vol: 1.000 mL

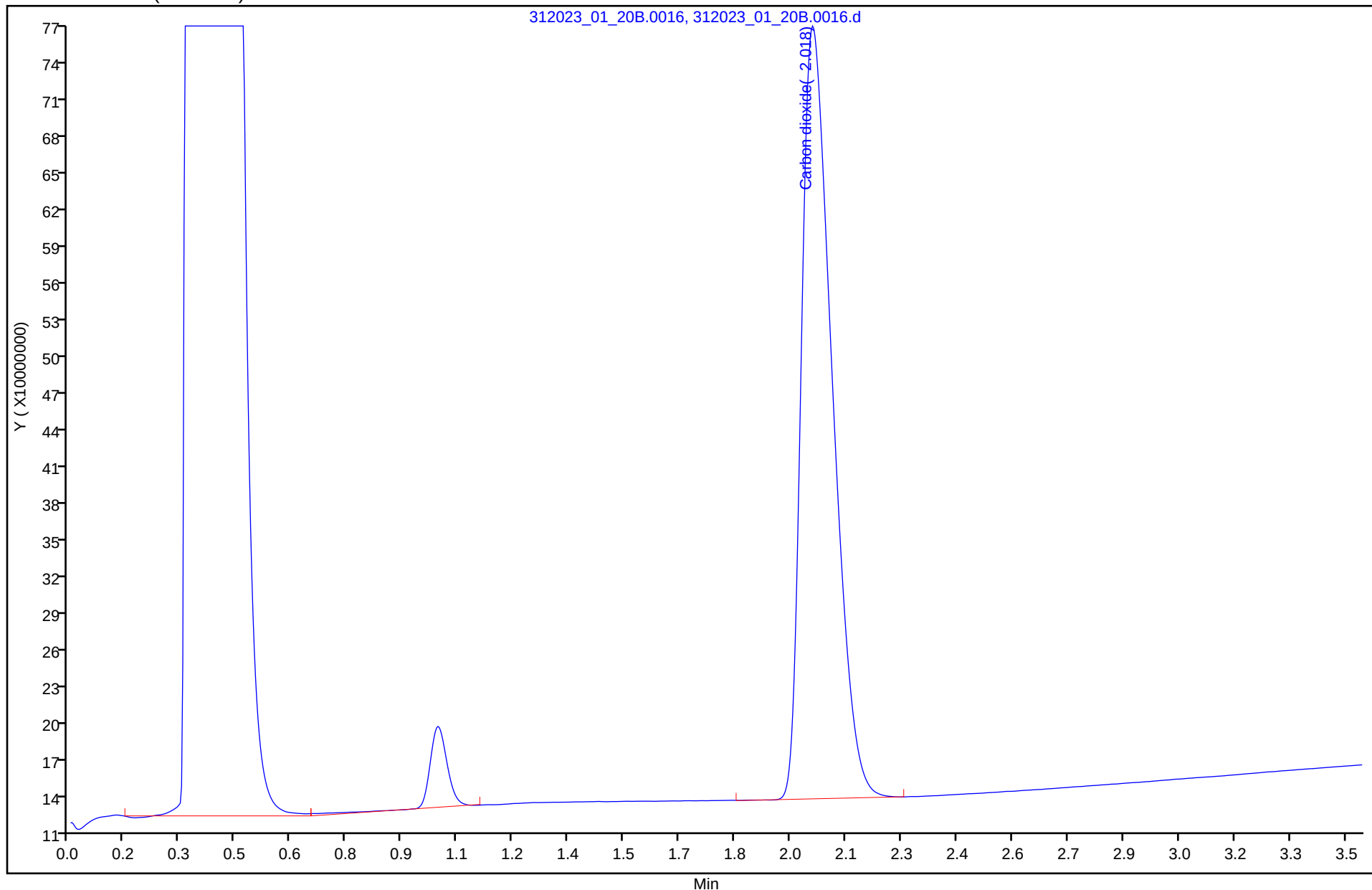
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

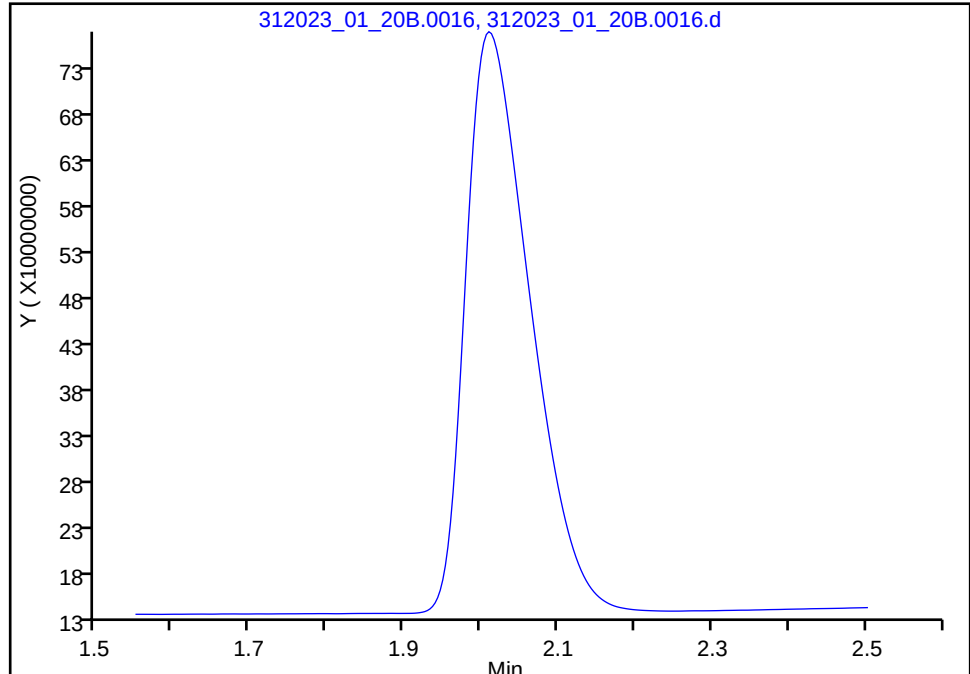
Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0016.d
Injection Date: 20-Jan-2023 10:56:00 Instrument ID: 19506-B
Lims ID: 410-112785-A-3-A Lab Sample ID: 410-112785-3
Client ID: HS23010587-03
Operator ID: ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2
Column: HP Plot (0.00 mm) Detector: OFIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

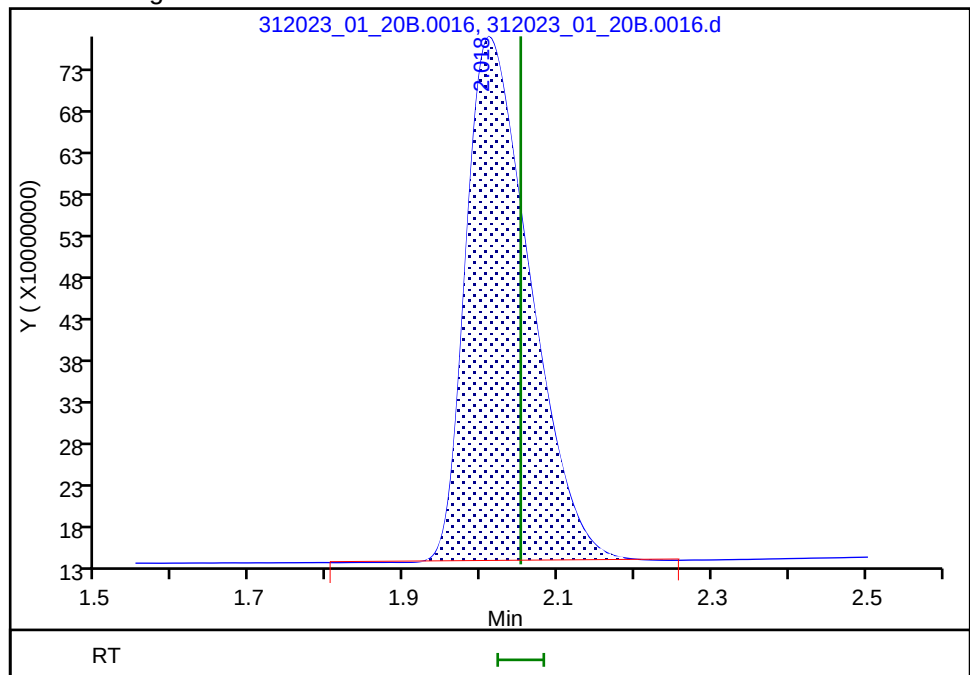
Not Detected
Expected RT: 2.05

Processing Integration Results



RT: 2.02
Height: 617652106
Amount: 155953
Amount Units: ug/l

Manual Integration Results



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HS23010587-04 Lab Sample ID: 410-112785-4

Matrix: Water Lab File ID: 312023_01_20B.0017.d

Analysis Method: RSK-175 Date Collected: 01/12/2023 09:55

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 11:03

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: 7.0

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	67000		12000	2600



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0017.d
 Lims ID: 410-112785-A-4-A
 Client ID: HS23010587-04
 Sample Type: Client
 Inject. Date: 20-Jan-2023 11:03:00 ALS Bottle#: 0 Worklist Smp#: 17
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-017
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 11:33:43 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.043	2.051	-0.008	266410612H	67267	



Report Date: 20-Jan-2023 12:25:06

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0017.d

Injection Date: 20-Jan-2023 11:03:00

Instrument ID: 19506-B

Operator ID:

Lims ID: 410-112785-A-4-A

Lab Sample ID: 410-112785-4

Worklist Smp#: 17

Client ID: HS23010587-04

Purge Vol: 1.000 mL

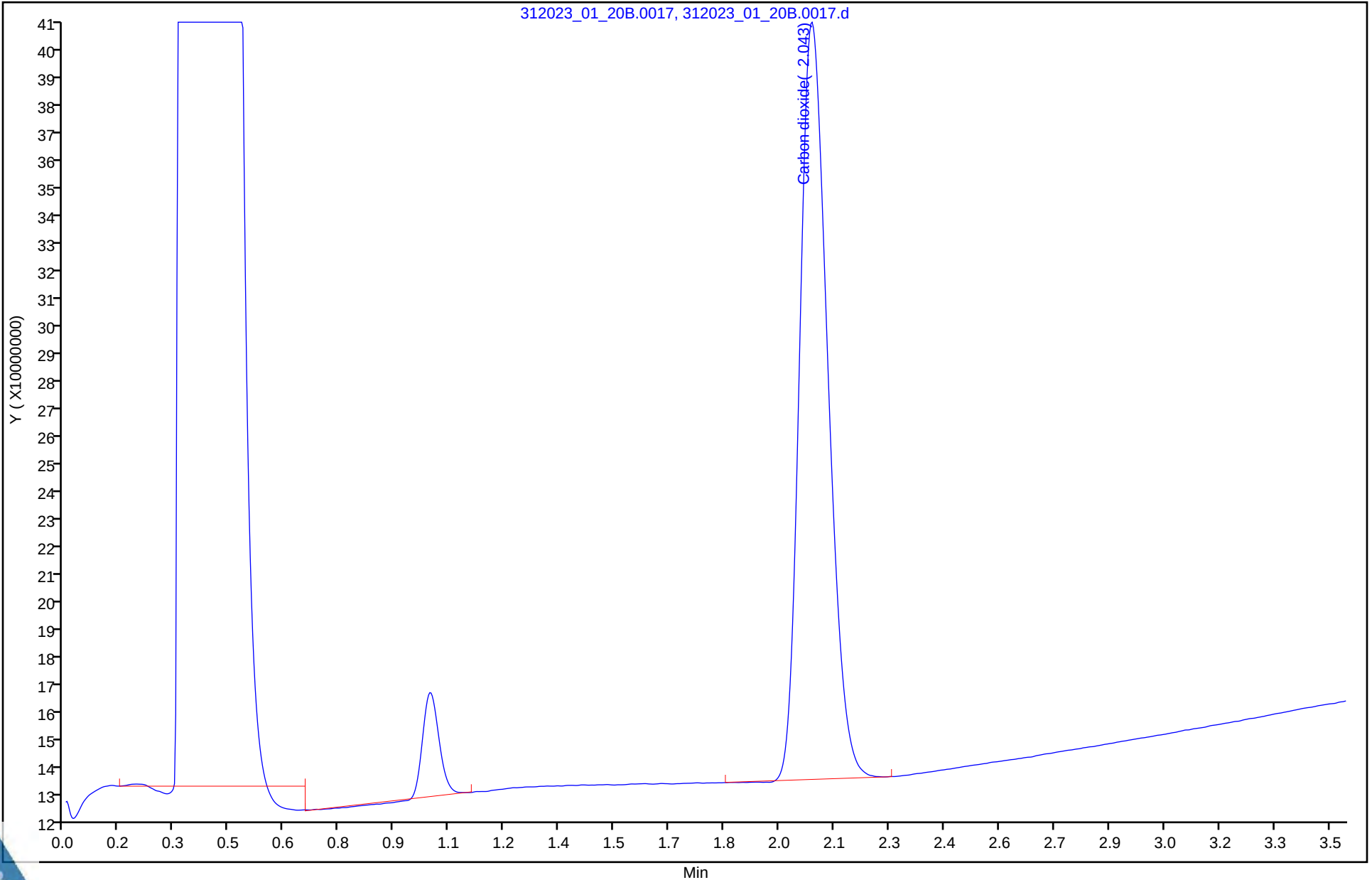
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



01/24/2023



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HS23010587-05 Lab Sample ID: 410-112785-5

Matrix: Water Lab File ID: 312023_01_20B.0026.d

Analysis Method: RSK-175 Date Collected: 01/12/2023 10:45

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 13:32

Soil Aliquot Vol: _____ Dilution Factor: 5

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: 7.0

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	360000	D	60000	13000



Report Date: 20-Jan-2023 13:39:14

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0026.d
 Lims ID: 410-112785-B-5-A DL
 Client ID: HS23010587-05
 Sample Type: Client
 Inject. Date: 20-Jan-2023 13:32:00 ALS Bottle#: 0 Worklist Smp#: 26
 Purge Vol: 1.000 mL Dil. Factor: 5.0000
 Sample Info:
 Misc. Info.: 410-0074669-026
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 13:38:36 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.041	2.051	-0.010	283173165H	71499	



Report Date: 20-Jan-2023 13:39:14

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0026.d

Injection Date: 20-Jan-2023 13:32:00

Instrument ID: 19506-B

Operator ID:

Lims ID: 410-112785-B-5-A DL

Lab Sample ID: 410-112785-5

Worklist Smp#: 26

Client ID: HS23010587-05

Purge Vol: 1.000 mL

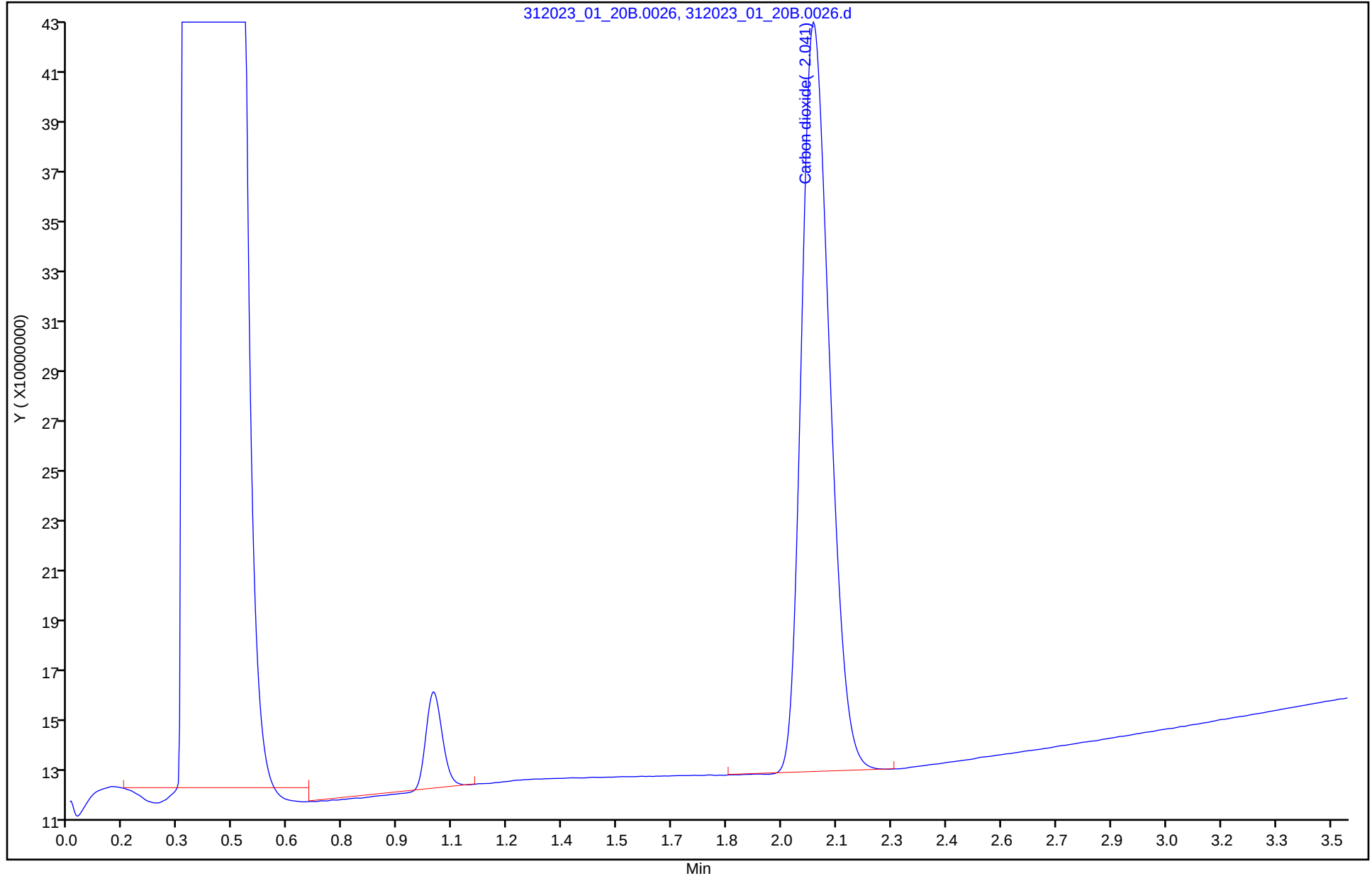
Dil. Factor: 5.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HS23010587-06 Lab Sample ID: 410-112785-6

Matrix: Water Lab File ID: 312023_01_20B.0019.d

Analysis Method: RSK-175 Date Collected: 01/12/2023 11:35

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 11:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: 7.0

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	110000		12000	2600



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0019.d
 Lims ID: 410-112785-A-6-A
 Client ID: HS23010587-06
 Sample Type: Client
 Inject. Date: 20-Jan-2023 11:19:00 ALS Bottle#: 0 Worklist Smp#: 19
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-019
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 11:33:43 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.029	2.051	-0.022	439891283H	111070	



Report Date: 20-Jan-2023 12:25:07

Chrom Revision: 2.3 09-Jan-2023 13:34:20

01223102

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0019.d

Injection Date: 20-Jan-2023 11:19:00

Instrument ID: 19506-B

Operator ID:

Lims ID: 410-112785-A-6-A

Lab Sample ID: 410-112785-6

Worklist Smp#: 19

Client ID: HS23010587-06

Purge Vol: 1.000 mL

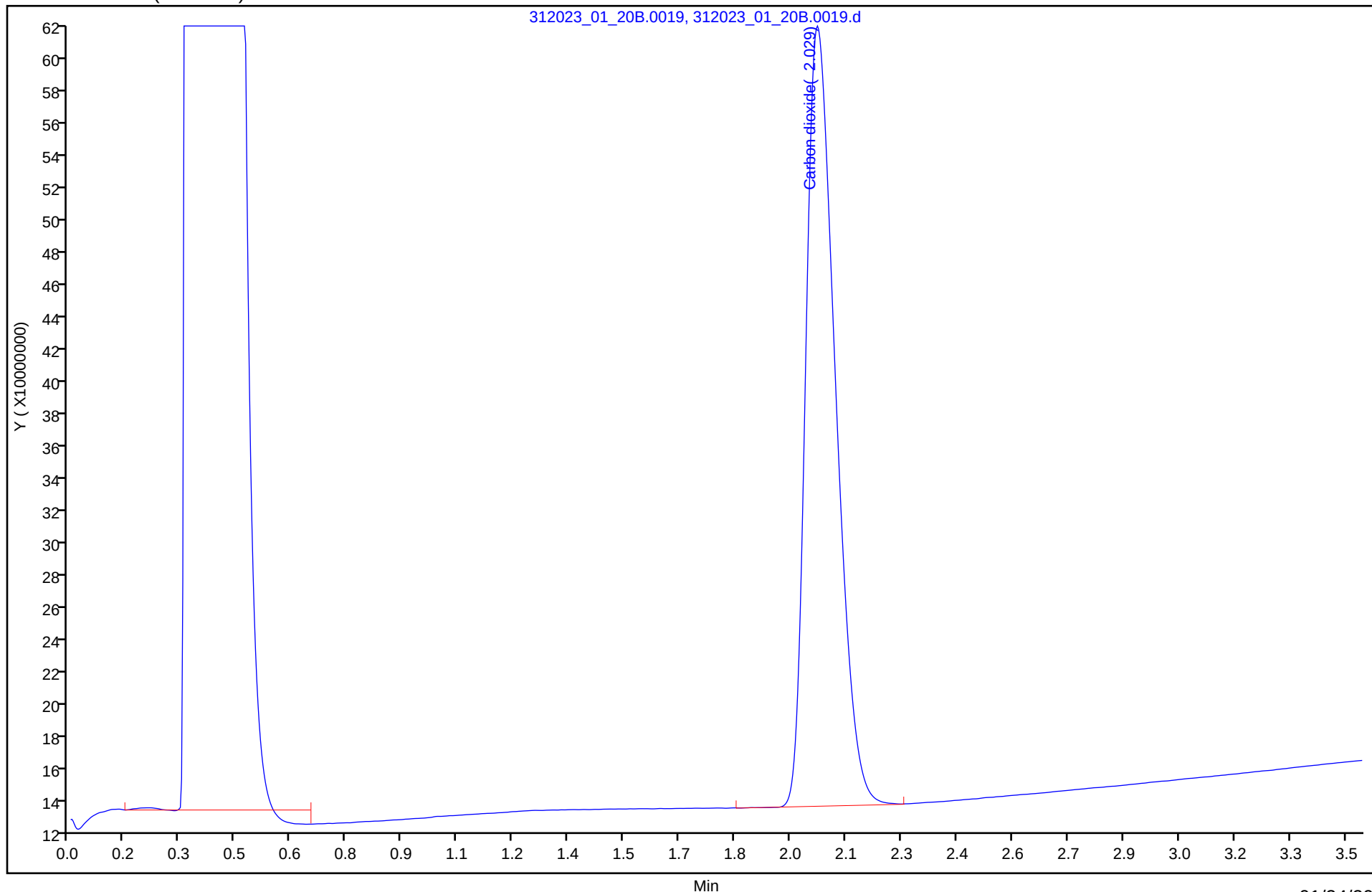
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-112785-1 Analy Batch No.: 331616

SDG No.: _____

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/30/2022 16:32 Calibration End Date: 12/30/2022 17:13 Calibration ID: 45608

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-331616/2	312022_12_30B.0002.d
Level 2	IC 410-331616/3	312022_12_30B.0003.d
Level 3	ICRT 410-331616/4	312022_12_30B.0004.d
Level 4	IC 410-331616/5	312022_12_30B.0005.d
Level 5	IC 410-331616/6	312022_12_30B.0006.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Carbon dioxide	1.980	1.977	1.973	1.960	1.943						1.943 - 2.003	1.967



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1 Analy Batch No.: 331616
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/30/2022 16:32 Calibration End Date: 12/30/2022 17:13 Calibration ID: 45608

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-331616/2	312022_12_30B.0002.d
Level 2	IC 410-331616/3	312022_12_30B.0003.d
Level 3	ICRT 410-331616/4	312022_12_30B.0004.d
Level 4	IC 410-331616/5	312022_12_30B.0005.d
Level 5	IC 410-331616/6	312022_12_30B.0006.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Carbon dioxide	4382.9 3543.4	4049.0	3981.6	3845.7	Ave		3960.5020 9				7.7		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-112785-1 Analy Batch No.: 331616

SDG No.: _____

Instrument ID: 19506-B GC Column: HP Plot ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/30/2022 16:32 Calibration End Date: 12/30/2022 17:13 Calibration ID: 45608

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-331616/2	312022_12_30B.0002.d
Level 2	IC 410-331616/3	312022_12_30B.0003.d
Level 3	ICRT 410-331616/4	312022_12_30B.0004.d
Level 4	IC 410-331616/5	312022_12_30B.0005.d
Level 5	IC 410-331616/6	312022_12_30B.0006.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Carbon dioxide	Ave	47098229	87021455	142619437	344380785	634621588	10746	21492	35820	89550	179100

Curve Type Legend

Ave = Average by Height



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0002.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 30-Dec-2022 16:32:00 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 410-0074294-002
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 03-Jan-2023 07:38:08 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1619

First Level Reviewer: WN7O

Date: 03-Jan-2023 07:38:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	--------------	------------------	------------------	----------	-----------------	-------------------	-------

1 Carbon dioxide	1.980	1.973	0.007	47098229H	10746	11892	
------------------	-------	-------	-------	-----------	-------	-------	--

QC Flag Legend

Processing Flags

H - Response Measured by Height

Reagents:

EPH_CO2MS_00004

Amount Added: 30.00

Units: uL



Report Date: 03-Jan-2023 07:38:08

Chrom Revision: 2.3 20-Dec-2022 14:14:06

01223107

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0002.d

Injection Date: 30-Dec-2022 16:32:00

Instrument ID: 19506-B

Operator ID:

Lims ID: IC

Worklist Smp#: 2

Client ID:

Purge Vol: 1.000 mL

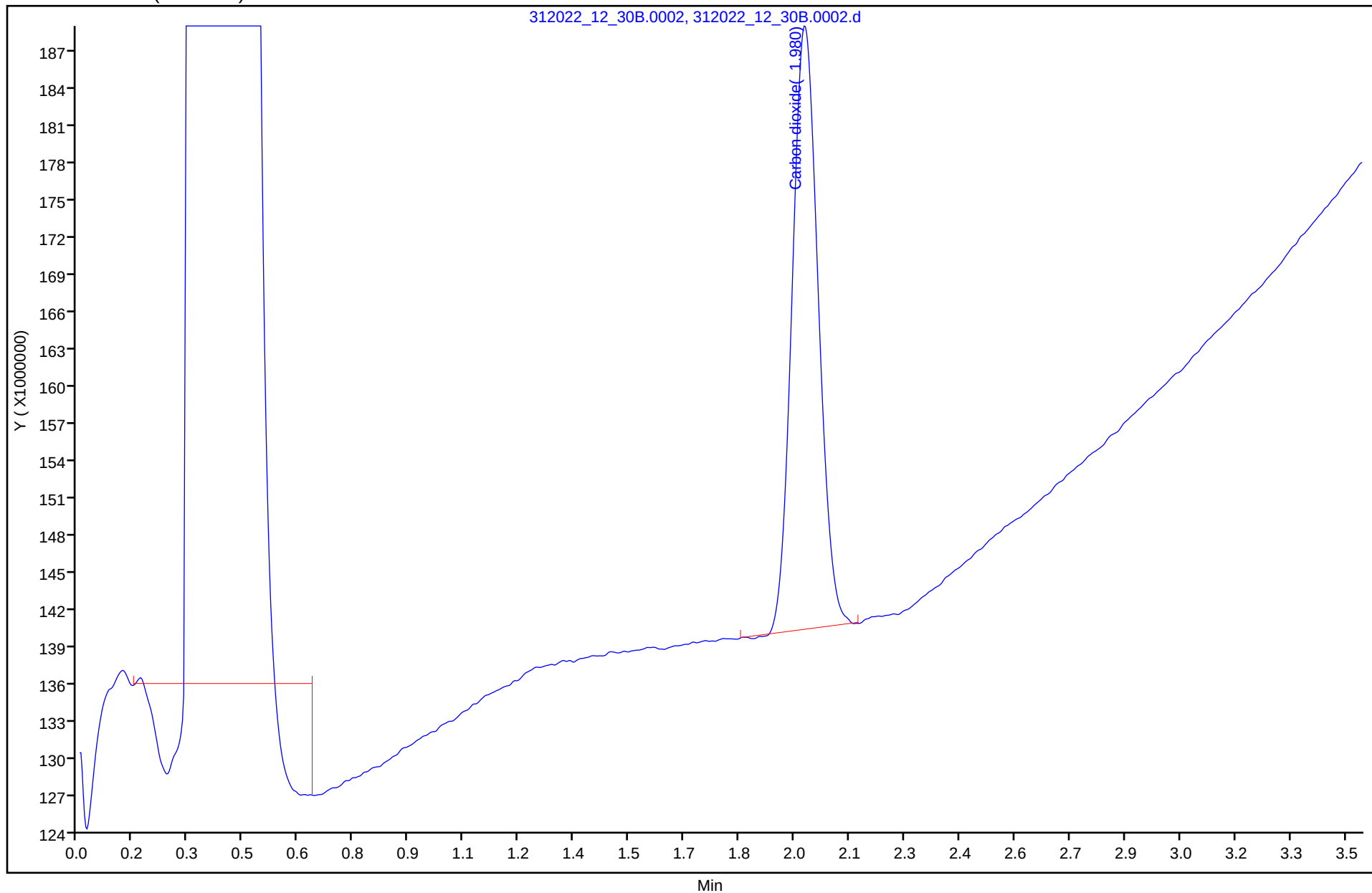
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Report Date: 03-Jan-2023 07:31:24

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0003.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Dec-2022 16:40:00 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 410-0074294-003
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 03-Jan-2023 07:31:24 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1619

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Carbon dioxide	1.977	1.973	0.004	87021455H	21492	21972	
------------------	-------	-------	-------	-----------	-------	-------	--

Reagents:

EPH_CO2MS_00004

Amount Added: 60.00

Units: uL



Report Date: 03-Jan-2023 07:31:24

Chrom Revision: 2.3 20-Dec-2022 14:14:06

01223109

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0003.d

Injection Date: 30-Dec-2022 16:40:00

Instrument ID: 19506-B

Operator ID:

Lims ID: IC

Worklist Smp#: 3

Client ID:

Purge Vol: 1.000 mL

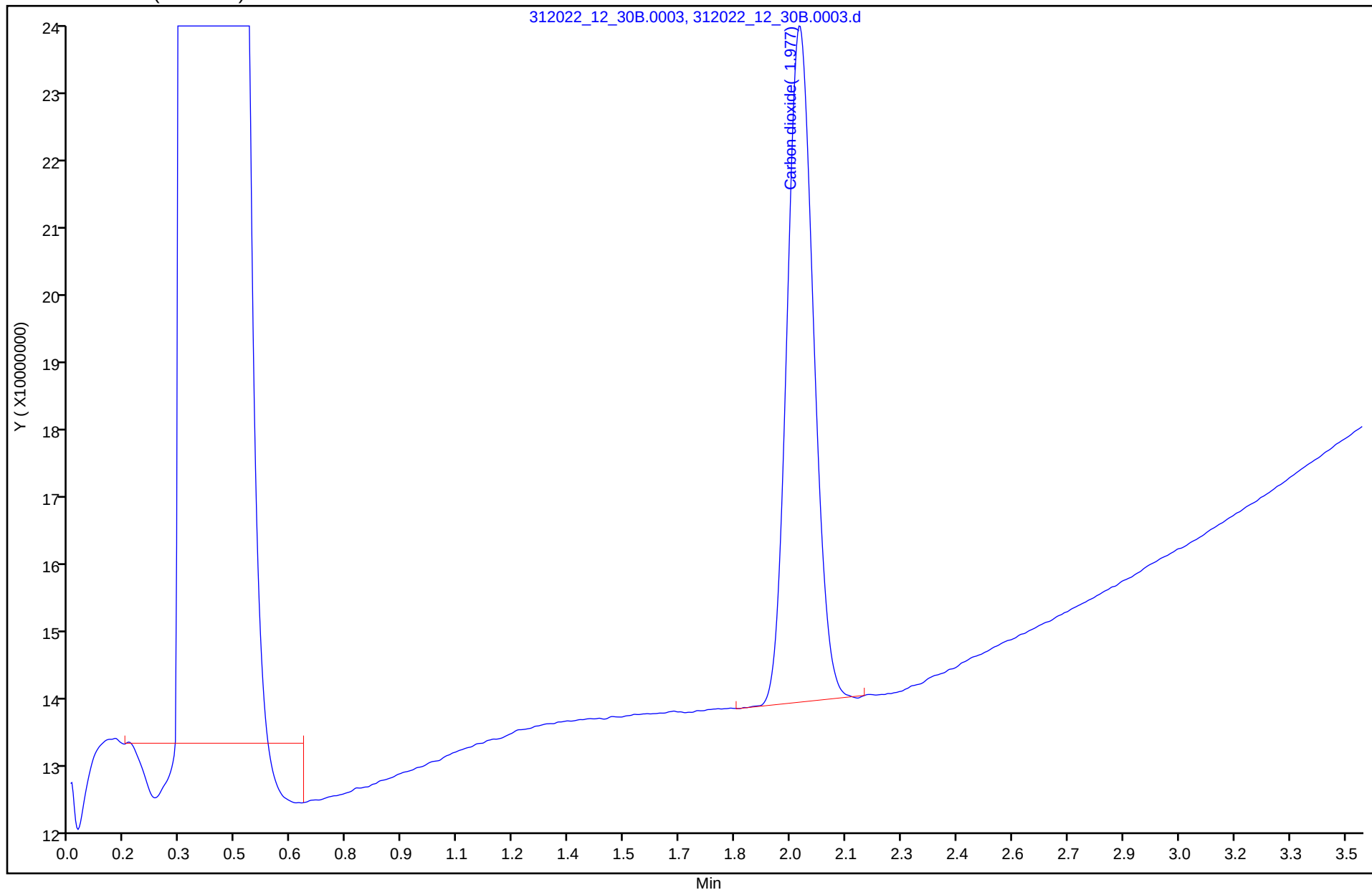
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0004.d
 Lims ID: ICRT
 Client ID:
 Sample Type: ICRT Calib Level: 3
 Inject. Date: 30-Dec-2022 16:48:00 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info: icrt
 Misc. Info.: 410-0074294-004
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 03-Jan-2023 07:31:25 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1619

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.973	1.973	0.000	142619437H	35820	36010	

Reagents:

EPH_CO2MS_00004

Amount Added: 100.00

Units: uL



Report Date: 03-Jan-2023 07:31:25

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0004.d

Injection Date: 30-Dec-2022 16:48:00

Instrument ID: 19506-B

Operator ID:

Lims ID: ICRT

Worklist Smp#: 4

Client ID:

Purge Vol: 1.000 mL

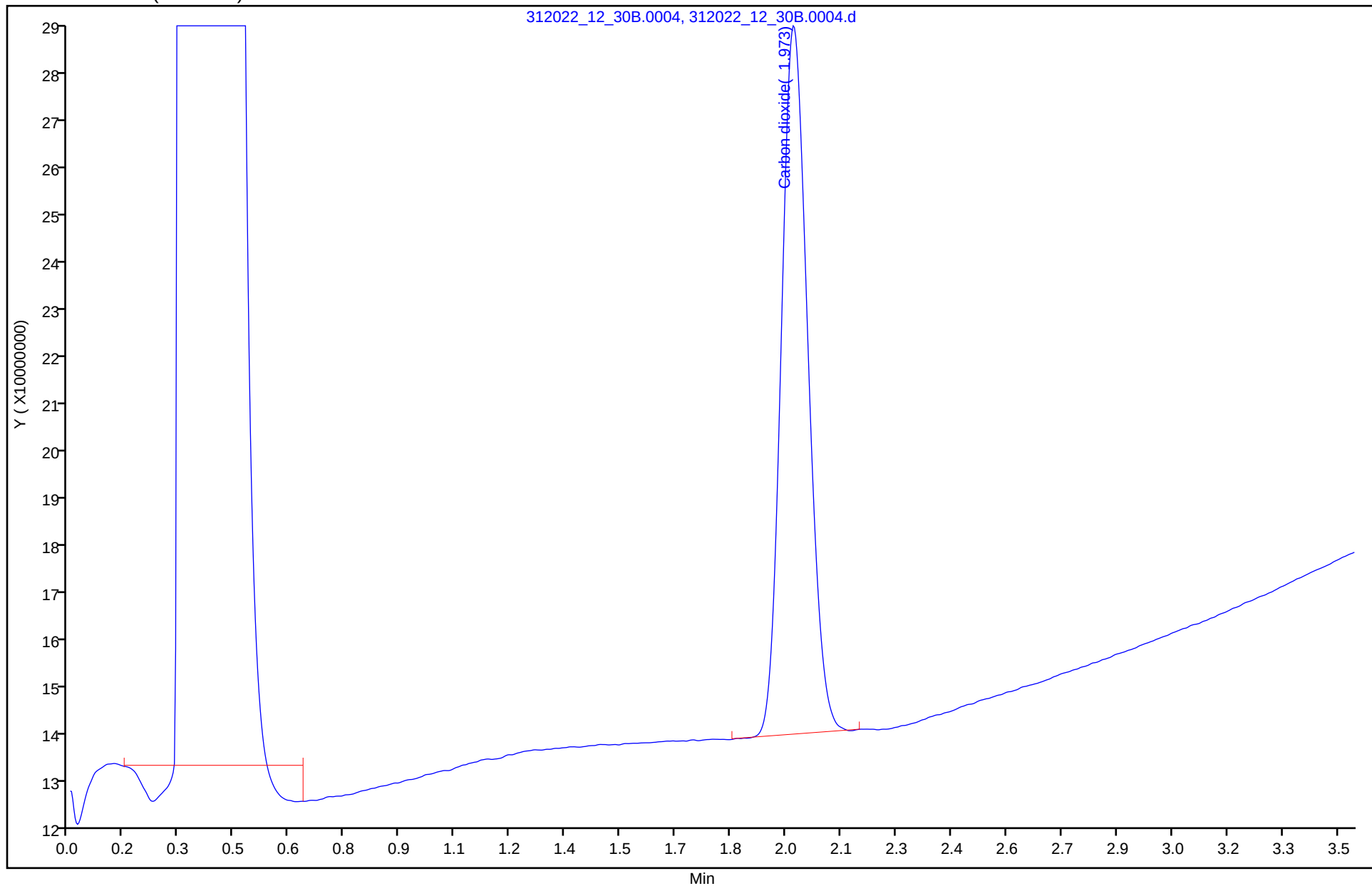
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Report Date: 03-Jan-2023 07:31:26

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0005.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Dec-2022 16:56:00 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 410-0074294-005
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 03-Jan-2023 07:31:26 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1619

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.960	1.973	-0.013	344380785H	89550	86954	

Reagents:

EPH_CO2MS_00004

Amount Added: 250.00

Units: uL



Report Date: 03-Jan-2023 07:31:26

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0005.d

Injection Date: 30-Dec-2022 16:56:00

Instrument ID: 19506-B

Operator ID:

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 1.000 mL

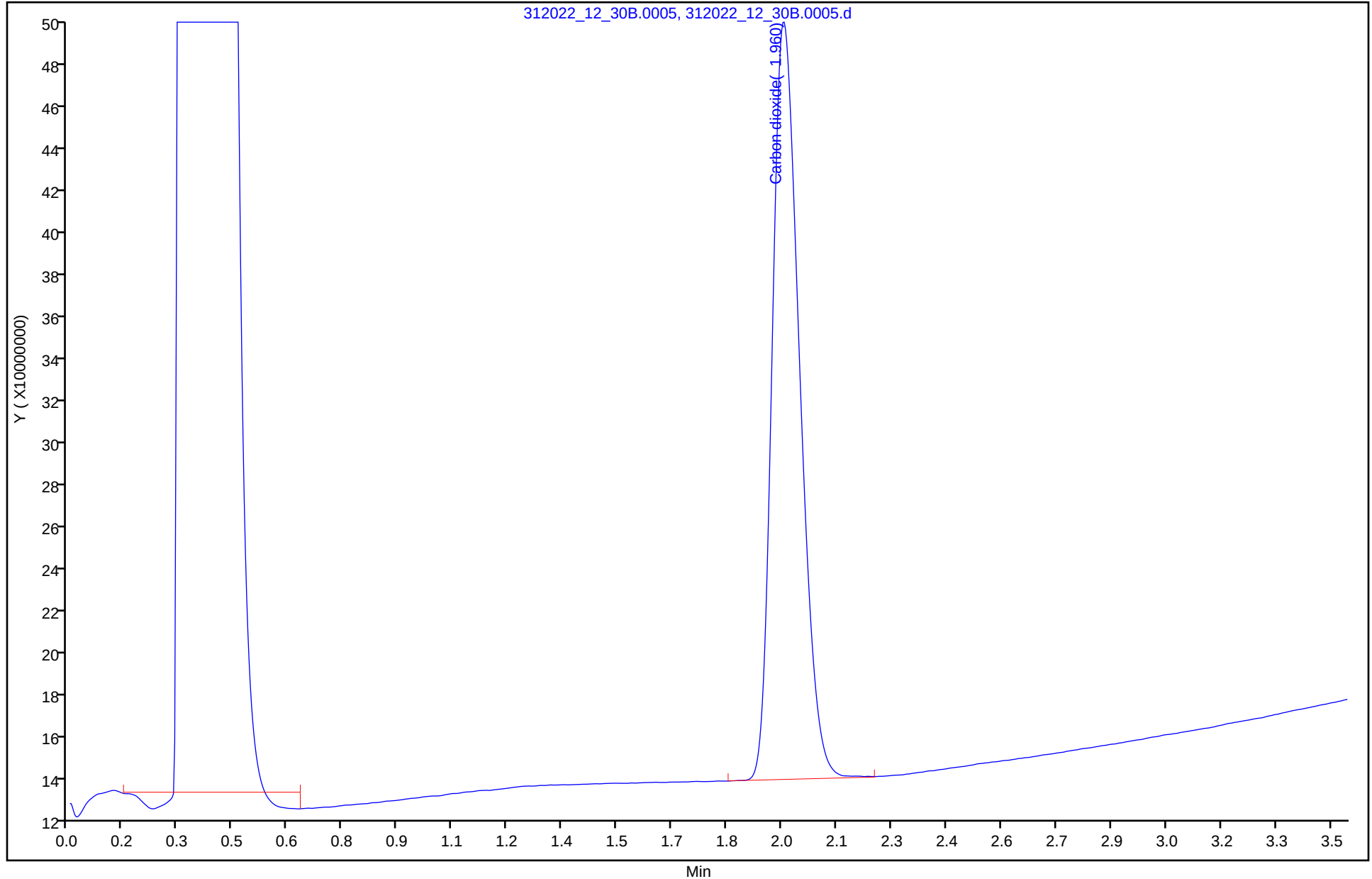
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-Dec-2022 17:05:00 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 410-0074294-006
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 03-Jan-2023 07:31:27 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1619

First Level Reviewer: WN7O

Date: 30-Dec-2022 17:19:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Carbon dioxide	1.943	1.973	-0.030	634621588H	179100	160238	a
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QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

a - User Assigned ID

Reagents:

EPH_CO2MS_00004

Amount Added: 500.00

Units: uL



Report Date: 03-Jan-2023 07:31:27

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d

Injection Date: 30-Dec-2022 17:05:00

Instrument ID: 19506-B

Operator ID:

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 1.000 mL

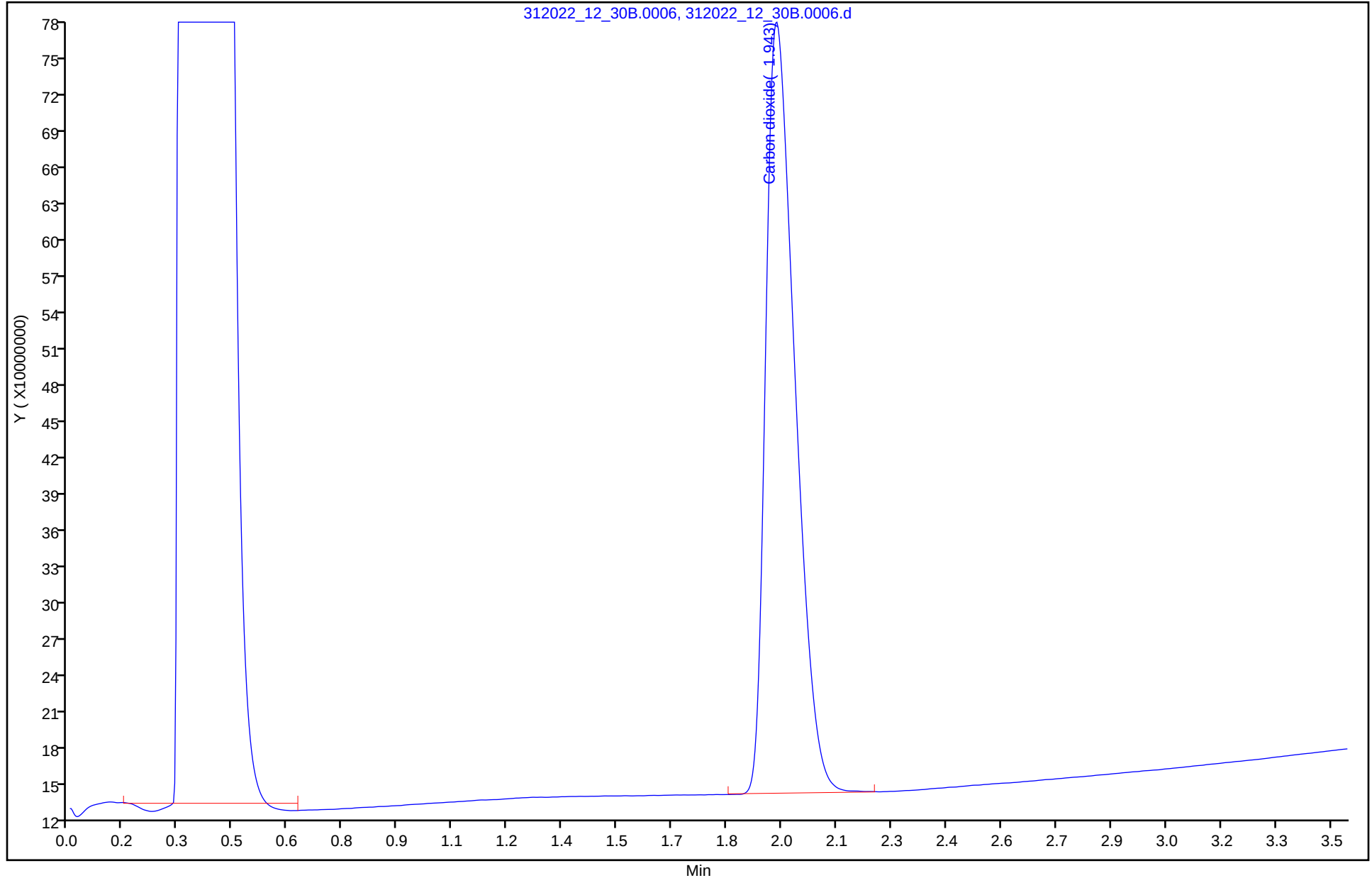
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
Injection Date: 30-Dec-2022 17:05:00 Instrument ID: 19506-B
Lims ID: IC
Client ID:
Operator ID:
Purge Vol: 1.000 mL
Method: RSK_CO2_19506B
Column: HP Plot (0.00 mm)

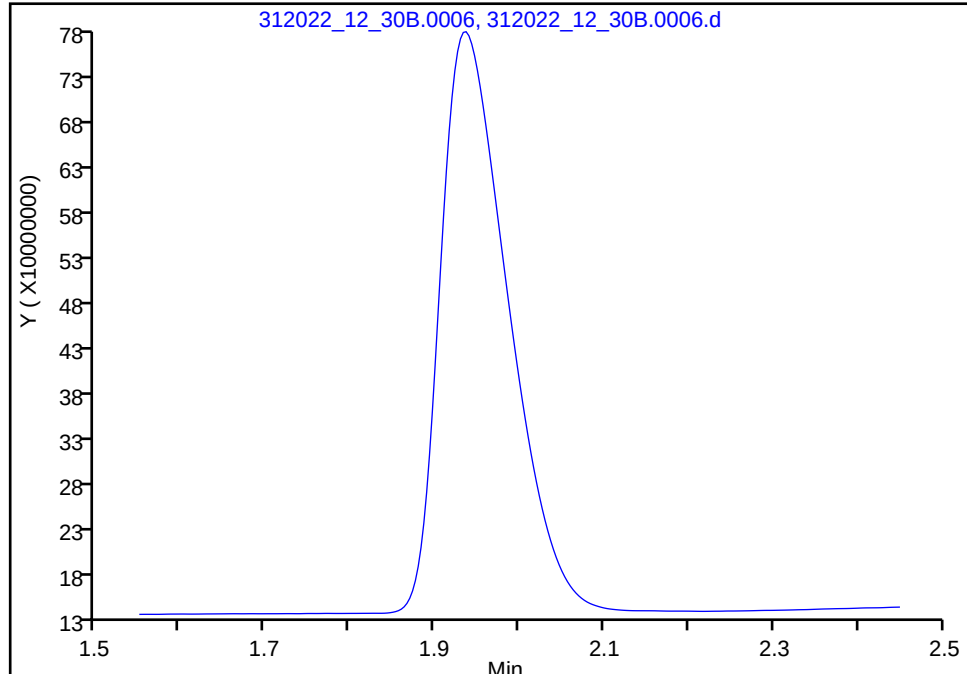
ALS Bottle#: 0 Worklist Smp#: 6
Dil. Factor: 1.0000
Limit Group: GCV - RSK175 CO2
Detector: OFIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

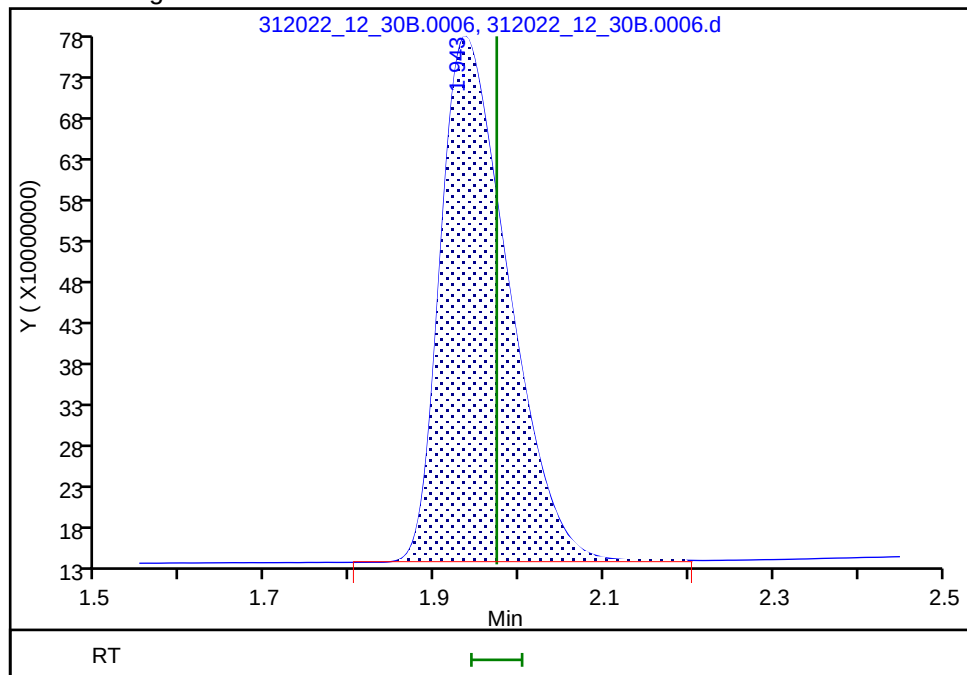
Not Detected
Expected RT: 1.97

Processing Integration Results



RT: 1.94
Height: 634621588
Amount: 160238
Amount Units: ug/l

Manual Integration Results



Calibration

/ Carbon dioxide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ESTD
Response Base: HEIGHT
RF Rounding: 0

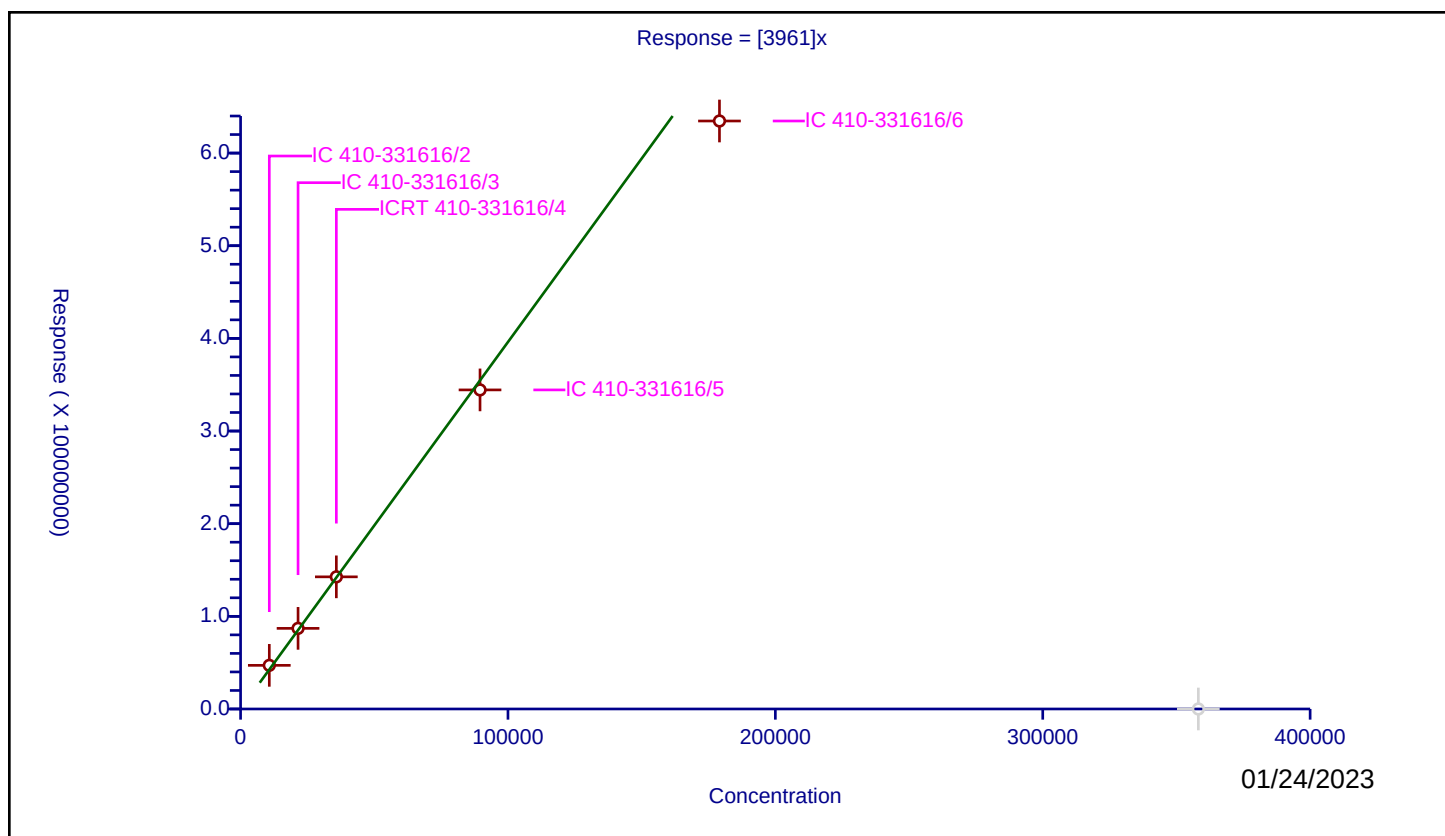
Curve Coefficients

Intercept: 0
Slope: 3961

Error Coefficients

Standard Error: 37800000
Relative Standard Error: 7.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-331616/2	10746.0	47098229.0			4382.861437	Y
2	IC 410-331616/3	21492.0	87021455.0			4049.016146	Y
3	ICRT 410-331616/4	35820.0	142619437.0			3981.558822	Y
4	IC 410-331616/5	89550.0	344380785.0			3845.681575	Y
5	IC 410-331616/6	179100.0	634621588.0			3543.392451	Y
6	IC 410-331616/7	358200.0	0.0			0.0	N



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
 SDG No.: _____
 Lab Sample ID: ICV 410-331616/10 Calibration Date: 12/30/2022 17:37
 Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
 GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
 Lab File ID: 312022_12_30B.0010.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3961	3752		33200	35000	-5.3	15.0



FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
SDG No.: _____
Lab Sample ID: ICV 410-331616/10 Calibration Date: 12/30/2022 17:37
Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
Lab File ID: 312022_12_30B.0010.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	1.98	1.94	2.00



Report Date: 03-Jan-2023 07:38:13

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0010.d
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 30-Dec-2022 17:37:00 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info: icv
 Misc. Info.: 410-0074294-010
 Operator ID: Instrument ID: 19506-B
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 03-Jan-2023 07:38:08 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1619

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.977	1.973	0.004	131333027H	35008	33161	

Reagents:

EPH_CO2ICV_00002

Amount Added: 0.32

Units: mL



Report Date: 03-Jan-2023 07:38:13

Chrom Revision: 2.3 20-Dec-2022 14:14:06

01223121

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0010.d

Injection Date: 30-Dec-2022 17:37:00

Instrument ID: 19506-B

Operator ID:

Lims ID: icv

Worklist Smp#: 10

Client ID:

Purge Vol: 1.000 mL

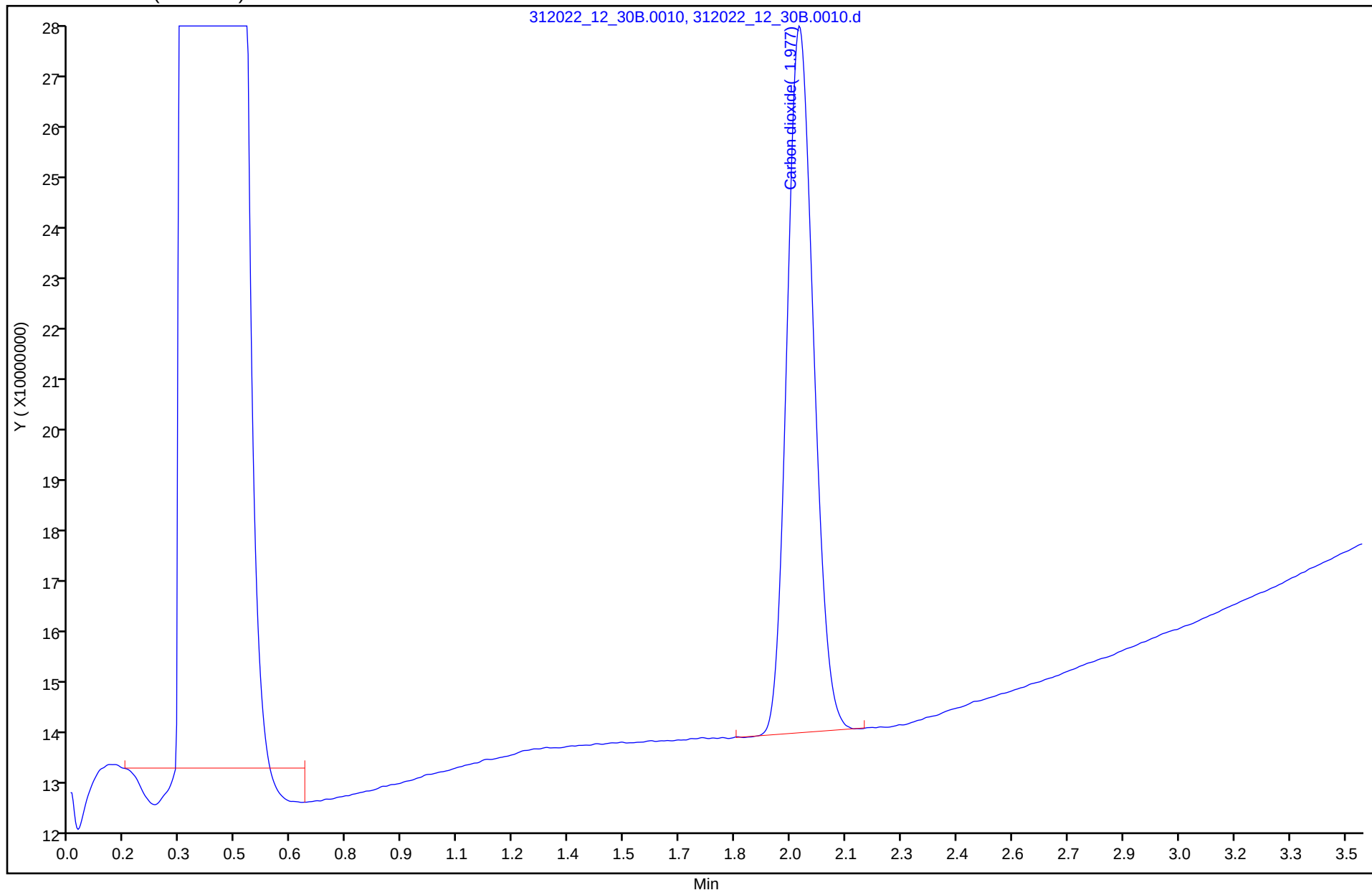
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
 SDG No.: _____
 Lab Sample ID: CCVRT 410-337247/4 Calibration Date: 01/20/2023 08:46
 Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
 GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
 Lab File ID: 312023_01_20B.0004.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3961	3790		34300	35800	-4.3	15.0



FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
SDG No.: _____
Lab Sample ID: CCVRT 410-337247/4 Calibration Date: 01/20/2023 08:46
Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
Lab File ID: 312023_01_20B.0004.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0004.d
 Lims ID: ccvrt
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 20-Jan-2023 08:46:00 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info: ccvrt
 Misc. Info.: 410-0074669-004
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 10:48:38 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

First Level Reviewer: MB4Z

Date: 20-Jan-2023 09:18:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Carbon dioxide	2.051	2.051	0.000	135765356H	35820	34280	
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QC Flag Legend

Processing Flags

H - Response Measured by Height

Reagents:

EPH_CO2MS_00004

Amount Added: 0.10

Units: mL



Report Date: 20-Jan-2023 10:48:38

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0004.d

Injection Date: 20-Jan-2023 08:46:00

Instrument ID: 19506-B

Operator ID:

Lims ID: ccvrt

Worklist Smp#: 4

Client ID:

Purge Vol: 1.000 mL

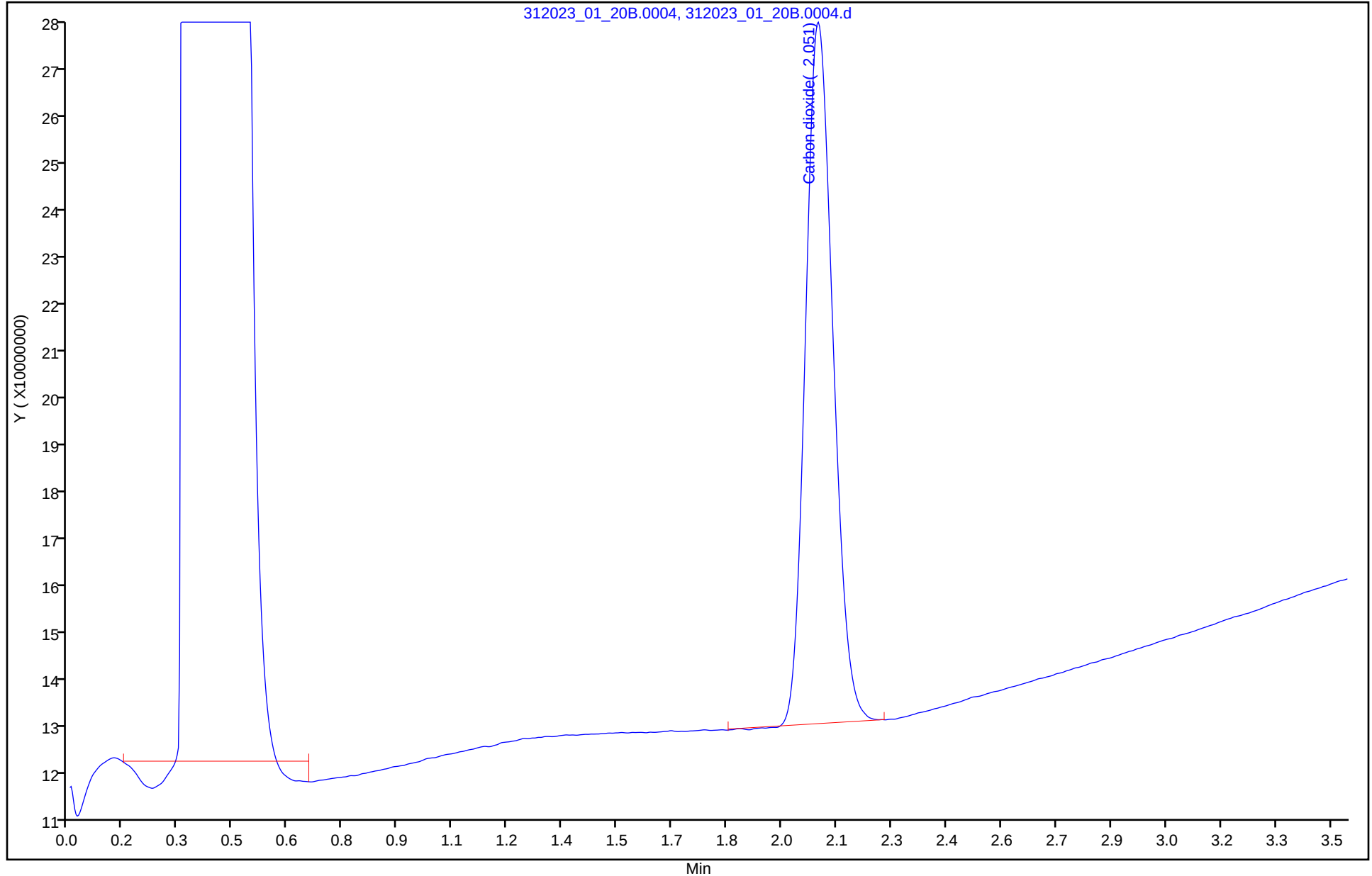
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1

SDG No.: _____

Lab Sample ID: CCV 410-337247/15 Calibration Date: 01/20/2023 10:22

Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32

GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13

Lab File ID: 312023_01_20B.0015.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3961	3832		34700	35800	-3.3	15.0



FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
SDG No.: _____
Lab Sample ID: CCV 410-337247/15 Calibration Date: 01/20/2023 10:22
Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
Lab File ID: 312023_01_20B.0015.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0015.d
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2023 10:22:00 ALS Bottle#: 0 Worklist Smp#: 15
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-015
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 11:10:17 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

First Level Reviewer: MB4Z

Date: 20-Jan-2023 11:10:17

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Carbon dioxide	2.052	2.051	0.001	137250361H	35820	34655	
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QC Flag Legend

Processing Flags

H - Response Measured by Height

Reagents:

EPH_CO2MS_00004

Amount Added: 0.10

Units: mL



Report Date: 20-Jan-2023 11:10:17

Chrom Revision: 2.3 09-Jan-2023 13:34:20

01223129

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0015.d

Injection Date: 20-Jan-2023 10:22:00

Instrument ID: 19506-B

Operator ID:

Lims ID: ccv

Worklist Smp#: 15

Client ID:

Purge Vol: 1.000 mL

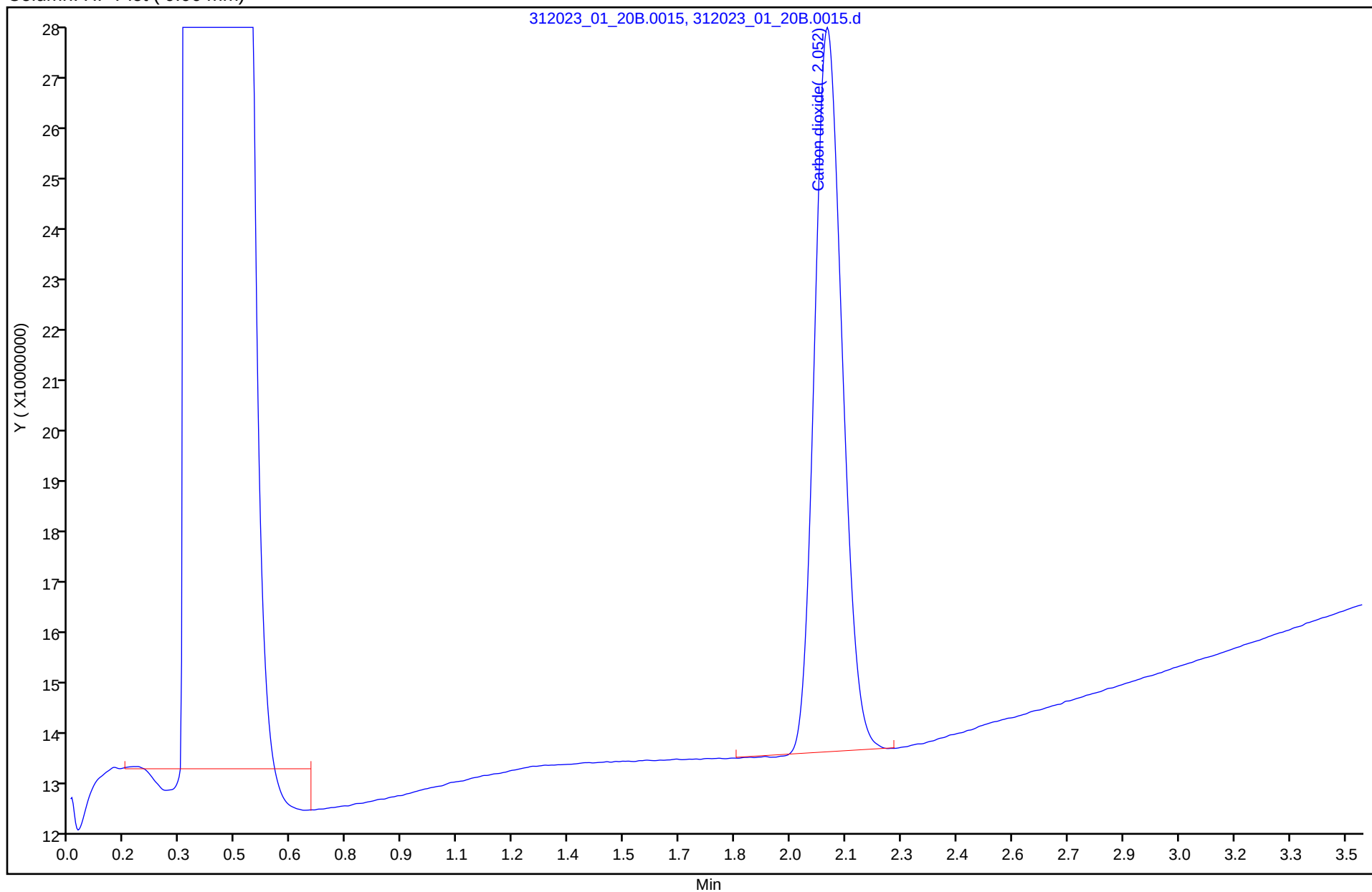
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



01/24/2023

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
 SDG No.: _____
 Lab Sample ID: CCV 410-337247/20 Calibration Date: 01/20/2023 11:26
 Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
 GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
 Lab File ID: 312023_01_20B.0020.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3961	3623		32800	35800	-8.5	15.0



FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
SDG No.: _____
Lab Sample ID: CCV 410-337247/20 Calibration Date: 01/20/2023 11:26
Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
Lab File ID: 312023_01_20B.0020.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0020.d
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2023 11:26:00 ALS Bottle#: 0 Worklist Smp#: 20
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-020
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 13:04:41 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

First Level Reviewer: MB4Z

Date: 20-Jan-2023 13:04:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	--------------	------------------	------------------	----------	-----------------	-------------------	-------

1 Carbon dioxide	2.052	2.051	0.001	129772629H	35820	32767	
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QC Flag Legend

Processing Flags

H - Response Measured by Height

Reagents:

EPH_CO2MS_00004

Amount Added: 0.10

Units: mL



Report Date: 20-Jan-2023 13:04:41

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0020.d

Injection Date: 20-Jan-2023 11:26:00

Instrument ID: 19506-B

Operator ID:

Lims ID: ccv

Worklist Smp#: 20

Client ID:

Purge Vol: 1.000 mL

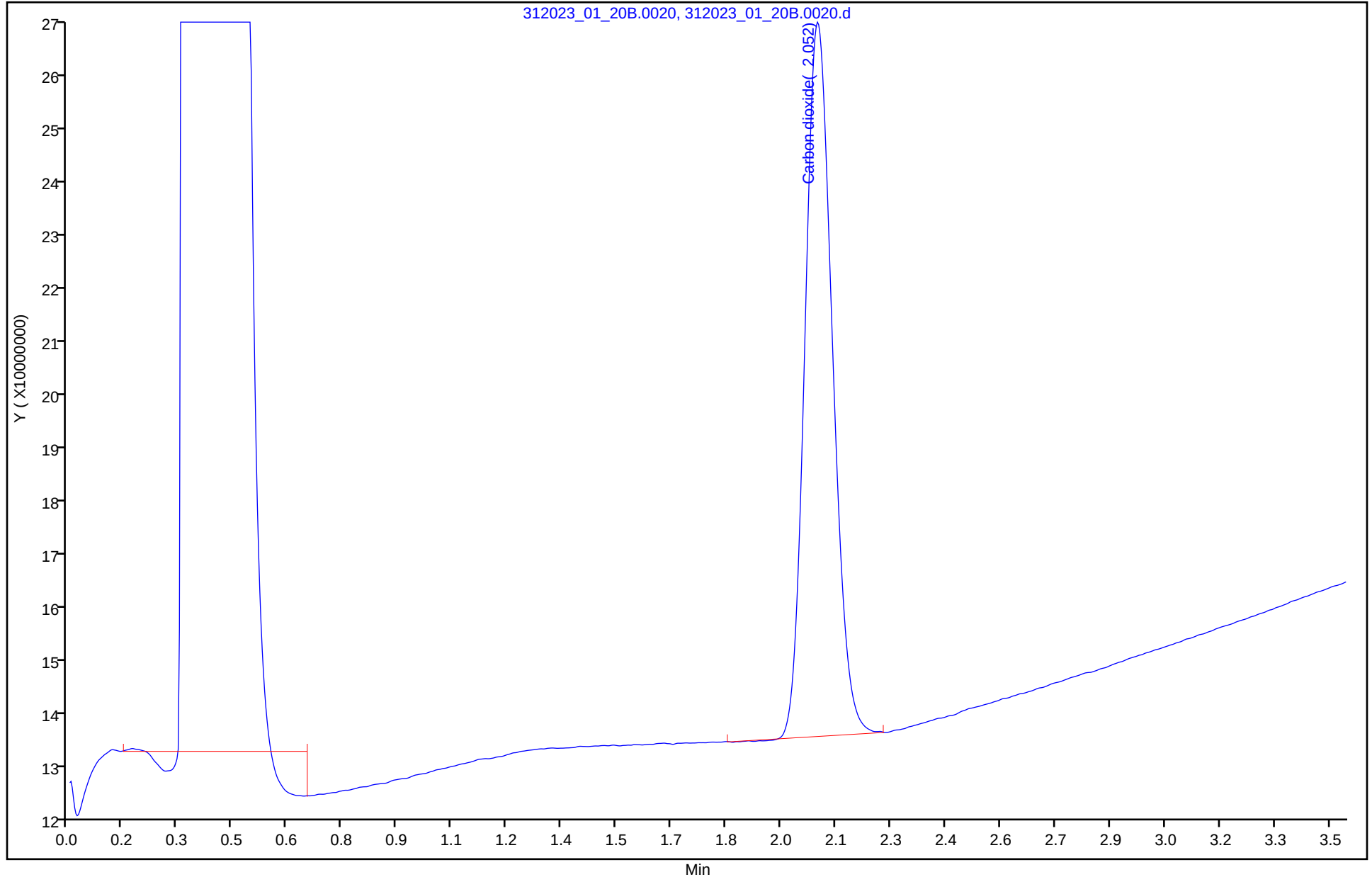
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
 SDG No.: _____
 Lab Sample ID: CCV 410-337247/27 Calibration Date: 01/20/2023 13:40
 Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
 GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
 Lab File ID: 312023_01_20B.0027.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3961	3605		32600	35800	-9.0	15.0



FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1
SDG No.: _____
Lab Sample ID: CCV 410-337247/27 Calibration Date: 01/20/2023 13:40
Instrument ID: 19506-B Calib Start Date: 12/30/2022 16:32
GC Column: HP Plot ID: 0.53 (mm) Calib End Date: 12/30/2022 17:13
Lab File ID: 312023_01_20B.0027.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08



Report Date: 20-Jan-2023 13:48:59

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0027.d
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2023 13:40:00 ALS Bottle#: 0 Worklist Smp#: 27
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-020
 Operator ID: Instrument ID: 19506-B
 Sublist: chrom-RSK_CO2_19506B*sub1
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 13:48:58 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	--------------	------------------	------------------	----------	-----------------	-------------------	-------

1 Carbon dioxide	2.052	2.051	0.001	129134422H	35820	32606	
------------------	-------	-------	-------	------------	-------	-------	--

Reagents:

EPH_CO2MS_00004

Amount Added: 0.10

Units: mL



Report Date: 20-Jan-2023 13:48:59

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0027.d

Injection Date: 20-Jan-2023 13:40:00

Instrument ID: 19506-B

Operator ID:

Lims ID: ccv

Worklist Smp#: 27

Client ID:

Purge Vol: 1.000 mL

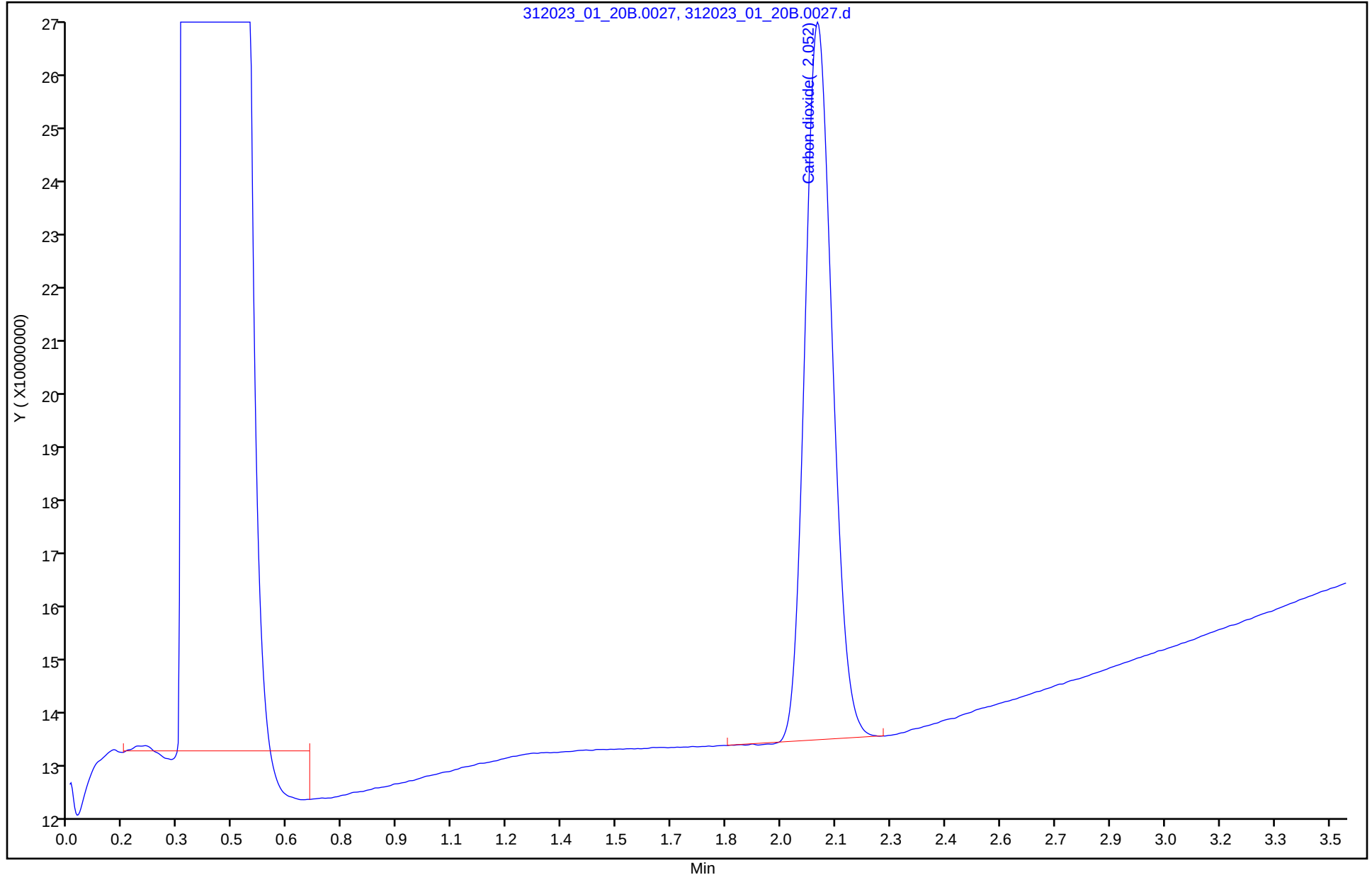
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-337244/1-A

Matrix: Water Lab File ID: 312023_01_20B.0005.d

Analysis Method: RSK-175 Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 09:00

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	2600	U	12000	2600



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0005.d
 Lims ID: MB 410-337244/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 20-Jan-2023 09:00:00 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-005
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 10:48:38 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

First Level Reviewer: MB4Z

Date: 20-Jan-2023 10:50:07

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.063	2.051	0.012	5183334H		1308.8	

QC Flag Legend

Processing Flags

H - Response Measured by Height



Report Date: 20-Jan-2023 11:02:20

Chrom Revision: 2.3 09-Jan-2023 13:34:20

01223140

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0005.d

Injection Date: 20-Jan-2023 09:00:00

Instrument ID: 19506-B

Operator ID:

Lims ID: MB 410-337244/1-A

Worklist Smp#: 5

Client ID:

Purge Vol: 1.000 mL

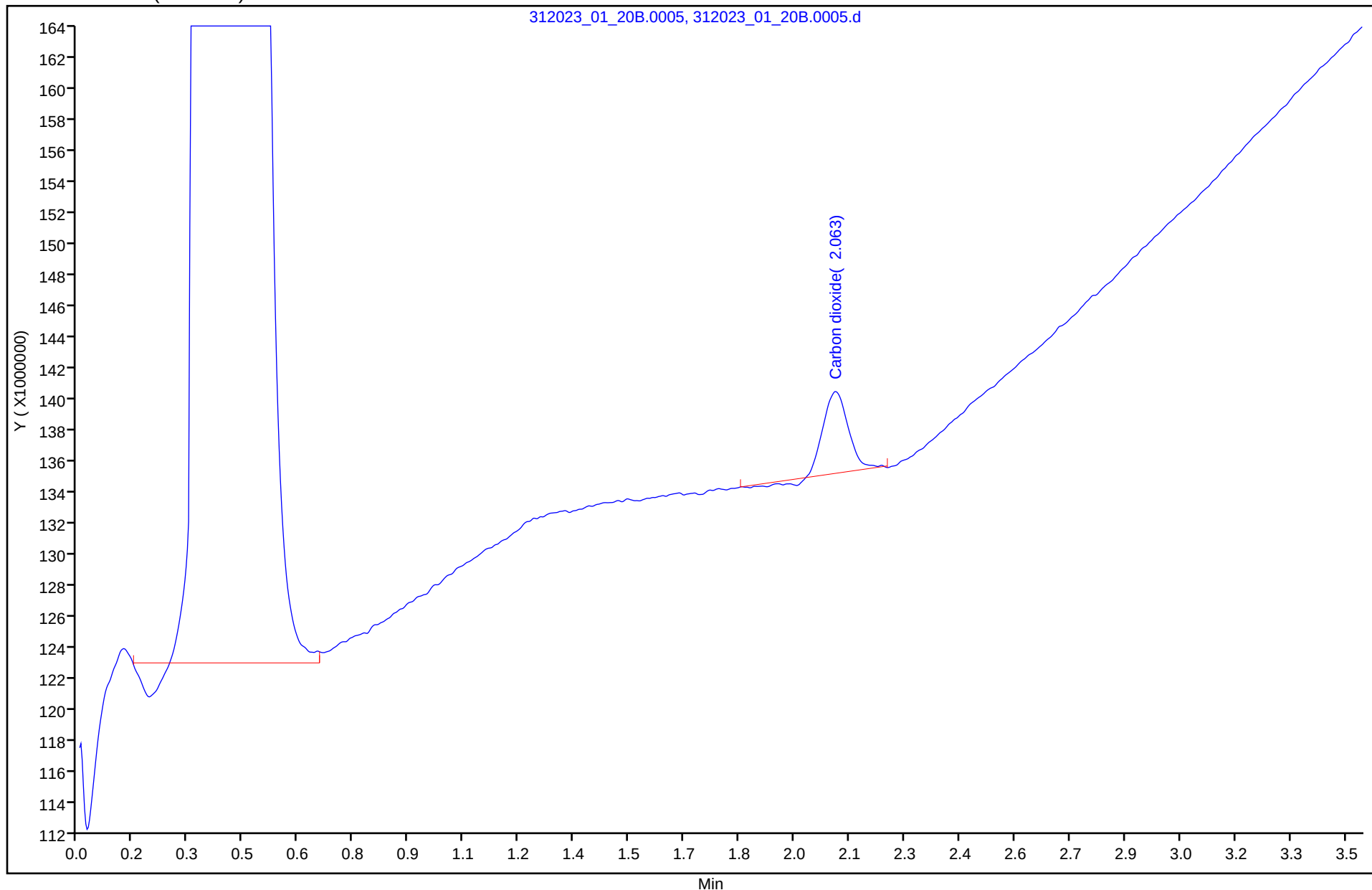
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-337359/1-A

Matrix: Water Lab File ID: 312023_01_20B.0021.d

Analysis Method: RSK-175 Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 12:46

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	2600	U	12000	2600



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0021.d
 Lims ID: MB 410-337359/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 20-Jan-2023 12:46:00 ALS Bottle#: 0 Worklist Smp#: 21
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-021
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 13:38:36 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

First Level Reviewer: MB4Z

Date: 20-Jan-2023 13:48:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.061	2.051	0.010	8006292H		2021.5	

QC Flag Legend

Processing Flags

H - Response Measured by Height



Report Date: 20-Jan-2023 13:48:48

Chrom Revision: 2.3 09-Jan-2023 13:34:20

01223143

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0021.d

Injection Date: 20-Jan-2023 12:46:00

Instrument ID: 19506-B

Operator ID:

Lims ID: MB 410-337359/1-A

Worklist Smp#: 21

Client ID:

Purge Vol: 1.000 mL

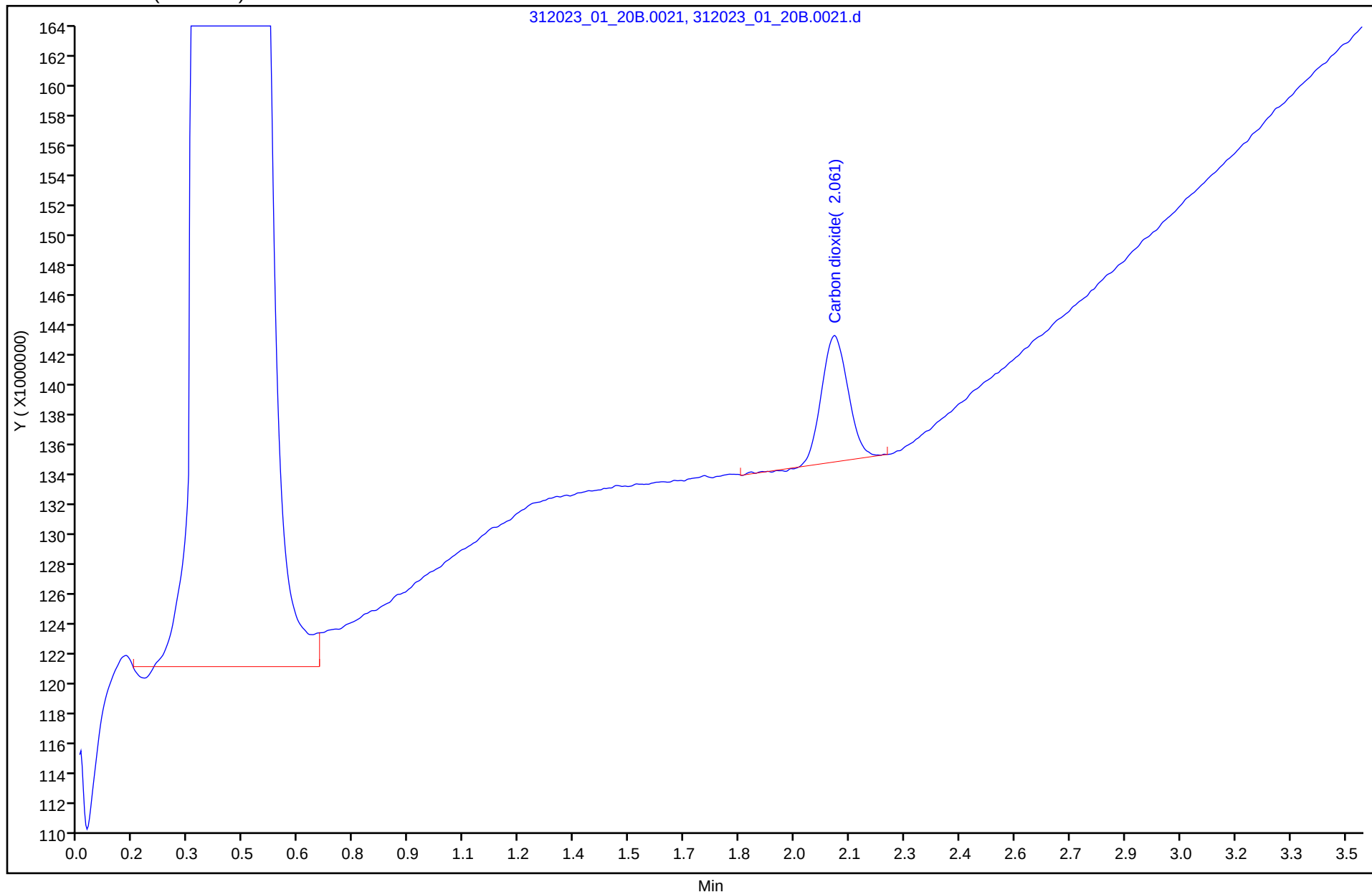
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-337244/2-A

Matrix: Water Lab File ID: 312023_01_20B.0006.d

Analysis Method: RSK-175 Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 09:07

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	35200		12000	2600



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0006.d
 Lims ID: LCS 410-337244/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Jan-2023 09:07:00 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-006
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 10:48:38 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

First Level Reviewer: MB4Z

Date: 20-Jan-2023 09:23:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.052	2.051	0.001	139471751H	35820	35216	

QC Flag Legend

Processing Flags

H - Response Measured by Height



Report Date: 20-Jan-2023 11:02:20

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0006.d

Injection Date: 20-Jan-2023 09:07:00

Instrument ID: 19506-B

Operator ID:

Lims ID: LCS 410-337244/2-A

Worklist Smp#: 6

Client ID:

Purge Vol: 1.000 mL

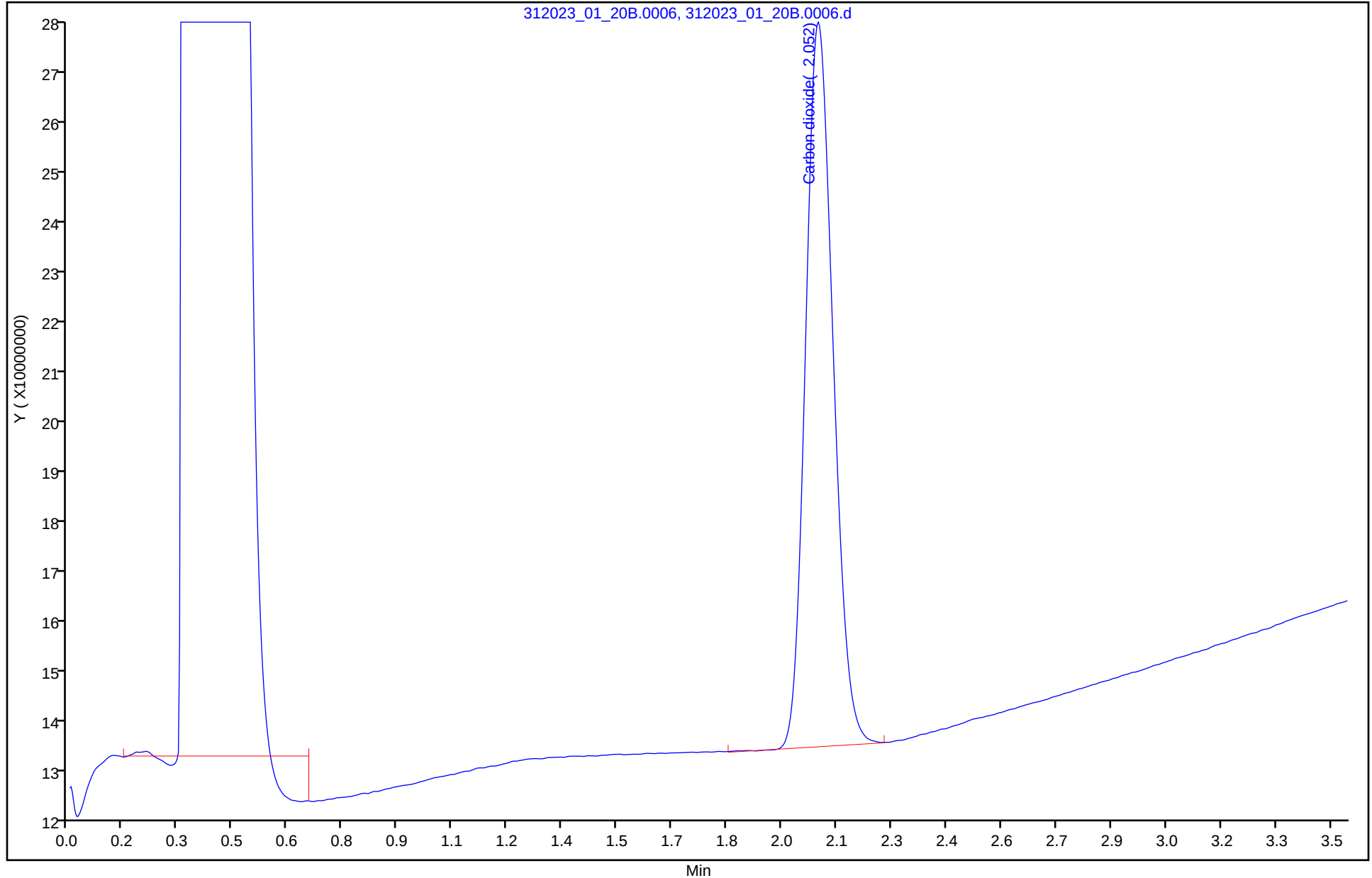
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-337359/2-A

Matrix: Water Lab File ID: 312023_01_20B.0022.d

Analysis Method: RSK-175 Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 12:53

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	35800		12000	2600



Report Date: 20-Jan-2023 13:27:24

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0022.d
 Lims ID: LCS 410-337359/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Jan-2023 12:53:00 ALS Bottle#: 0 Worklist Smp#: 22
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-022
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 13:26:52 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

First Level Reviewer: MB4Z

Date: 20-Jan-2023 13:27:24

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.051	0.000	141820119H	35820	35809	

QC Flag Legend

Processing Flags

H - Response Measured by Height



Report Date: 20-Jan-2023 13:27:24

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0022.d

Injection Date: 20-Jan-2023 12:53:00

Instrument ID: 19506-B

Operator ID:

Lims ID: LCS 410-337359/2-A

Worklist Smp#: 22

Client ID:

Purge Vol: 1.000 mL

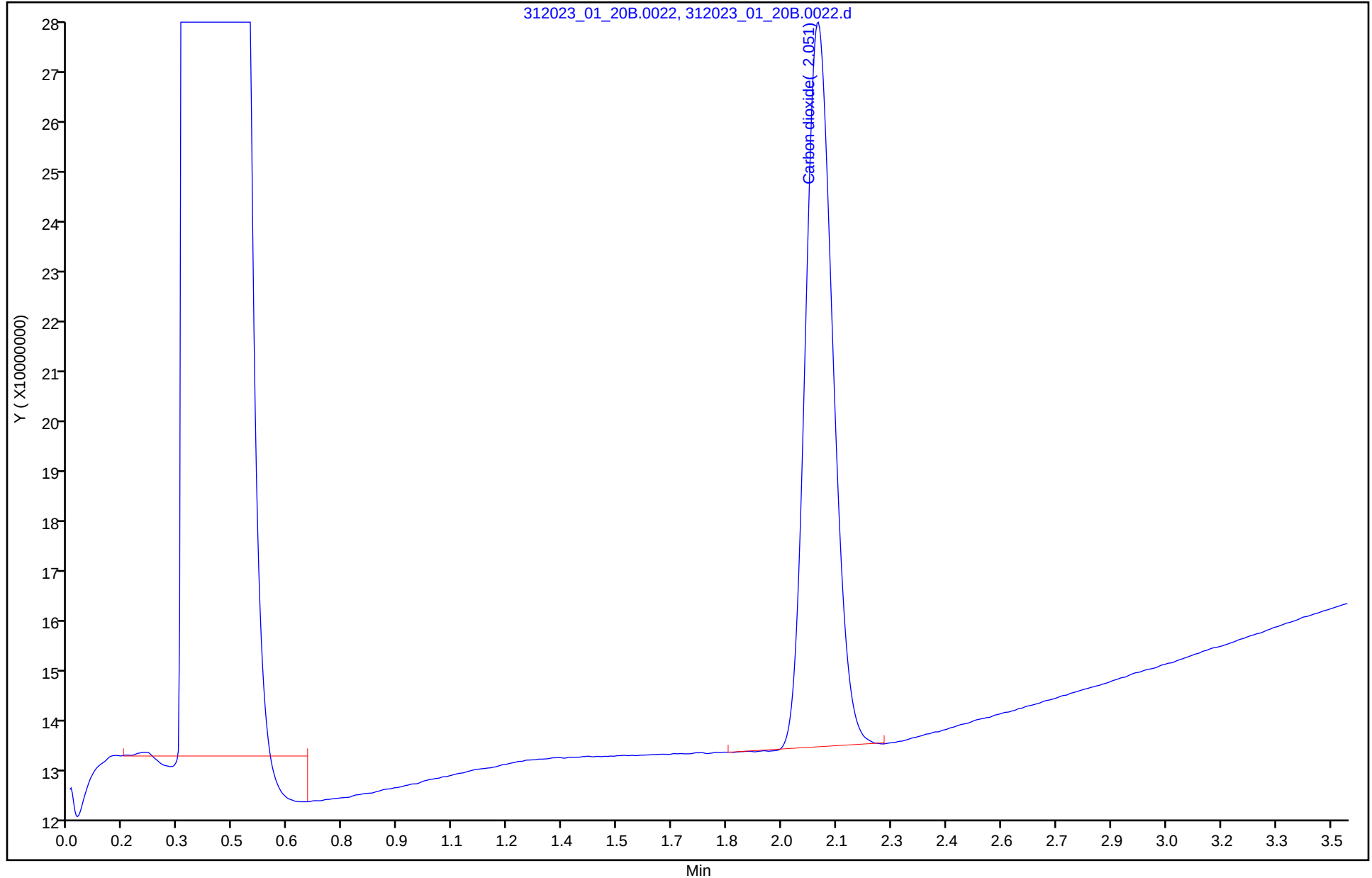
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-337244/3-A

Matrix: Water Lab File ID: 312023_01_20B.0007.d

Analysis Method: RSK-175 Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 09:16

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	35400		12000	2600



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0007.d
 Lims ID: LCSD 410-337244/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 20-Jan-2023 09:16:00 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-007
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 10:48:38 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.051	0.000	140036138H	35820	35358	



Report Date: 20-Jan-2023 11:02:20

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0007.d

Injection Date: 20-Jan-2023 09:16:00

Instrument ID: 19506-B

Operator ID:

Lims ID: LCSD 410-337244/3-A

Worklist Smp#: 7

Client ID:

Purge Vol: 1.000 mL

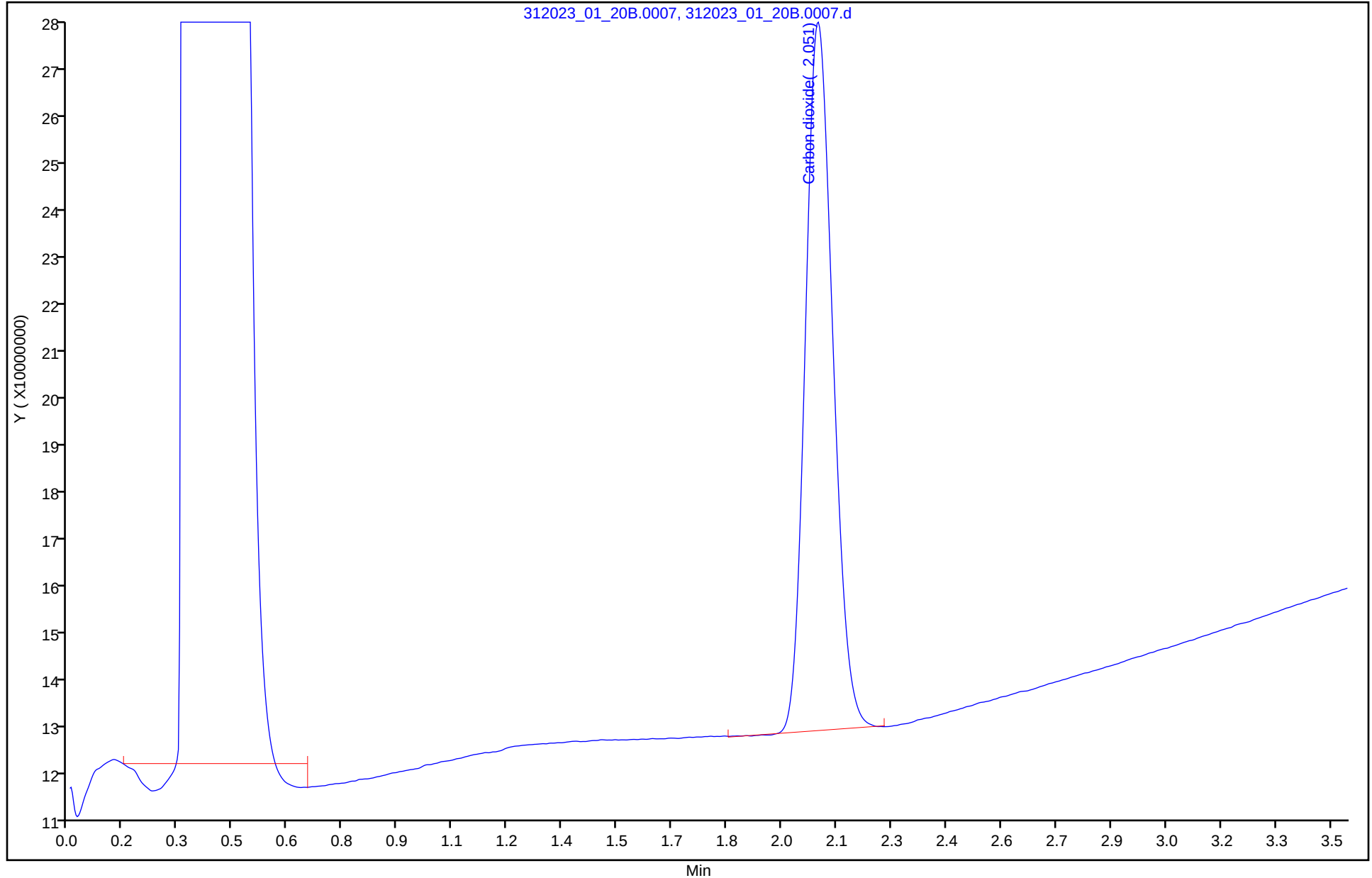
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-112785-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-337359/3-A

Matrix: Water Lab File ID: 312023_01_20B.0023.d

Analysis Method: RSK-175 Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/20/2023 13:01

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: HP Plot ID: 0.53 (mm)

Purge Volume: _____ Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 337247 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	DL
124-38-9	Carbon dioxide	33000		12000	2600



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0023.d
 Lims ID: LCSD 410-337359/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 20-Jan-2023 13:01:00 ALS Bottle#: 0 Worklist Smp#: 23
 Purge Vol: 1.000 mL Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 410-0074669-023
 Operator ID: Instrument ID: 19506-B
 Method: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\RSK_CO2_19506B.m
 Limit Group: GCV - RSK175 CO2
 Last Update: 20-Jan-2023 13:10:53 Calib Date: 30-Dec-2022 17:05:00
 Integrator: Genie
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20221230-74294.b\312022_12_30B.0006.d
 Column 1 : HP Plot (0.00 mm) Det: 0FIDA
 Process Host: CTX1606

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.052	2.051	0.001	130828312H	35820	33033	



Report Date: 20-Jan-2023 13:18:57

Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20230120-75471.b\312023_01_20B.0023.d

Injection Date: 20-Jan-2023 13:01:00

Instrument ID: 19506-B

Operator ID:

Lims ID: LCSD 410-337359/3-A

Worklist Smp#: 23

Client ID:

Purge Vol: 1.000 mL

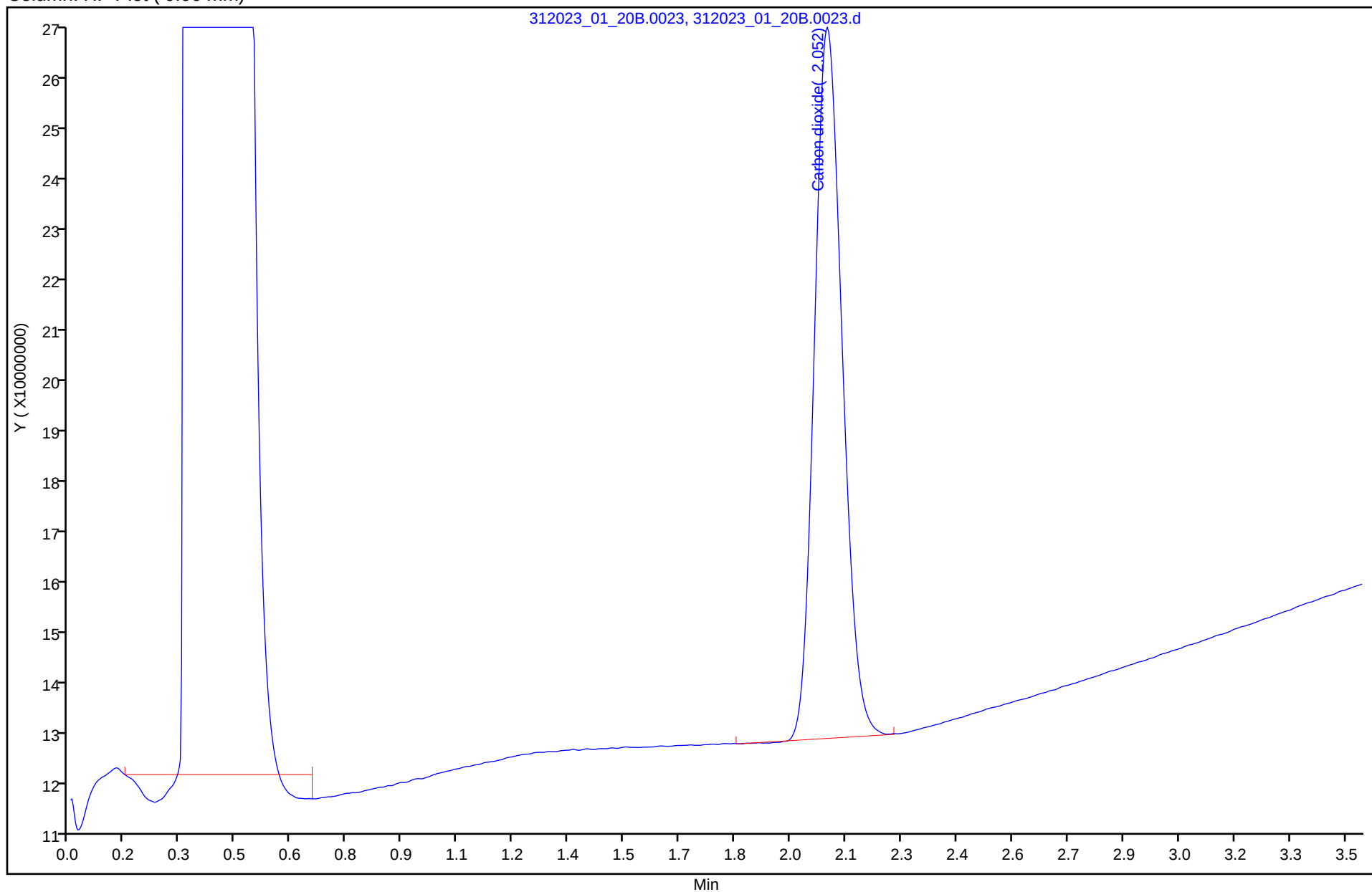
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: RSK_CO2_19506B

Limit Group: GCV - RSK175 CO2

Column: HP Plot (0.00 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1

SDG No.: _____

Instrument ID: 19506-BStart Date: 12/30/2022 16:24Analysis Batch Number: 331616End Date: 12/30/2022 22:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 410-331616/1		12/30/2022 16:24	1		HP Plot 0.53 (mm)
IC 410-331616/2		12/30/2022 16:32	1	312022_12_30B.0 002.d	HP Plot 0.53 (mm)
IC 410-331616/3		12/30/2022 16:40	1	312022_12_30B.0 003.d	HP Plot 0.53 (mm)
ICRT 410-331616/4		12/30/2022 16:48	1	312022_12_30B.0 004.d	HP Plot 0.53 (mm)
IC 410-331616/5		12/30/2022 16:56	1	312022_12_30B.0 005.d	HP Plot 0.53 (mm)
IC 410-331616/6		12/30/2022 17:05	1	312022_12_30B.0 006.d	HP Plot 0.53 (mm)
IC 410-331616/7		12/30/2022 17:13	1		HP Plot 0.53 (mm)
PIBLK 410-331616/8		12/30/2022 17:21	1		HP Plot 0.53 (mm)
ICVL 410-331616/9		12/30/2022 17:29	1		HP Plot 0.53 (mm)
ICV 410-331616/10		12/30/2022 17:37	1	312022_12_30B.0 010.d	HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 18:10	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 18:17	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 18:26	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 18:33	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 18:41	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 18:48	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 18:56	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 19:04	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 19:11	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 19:19	1		HP Plot 0.53 (mm)
CCV 410-331616/21		12/30/2022 19:27	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 19:34	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 19:42	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 19:50	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 19:57	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 20:05	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 20:13	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 20:20	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 20:28	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 20:35	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 20:43	1		HP Plot 0.53 (mm)
CCV 410-331616/32		12/30/2022 20:51	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 21:03	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 21:11	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 21:20	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 21:28	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 21:36	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 21:44	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 21:52	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 22:01	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 22:09	1		HP Plot 0.53 (mm)
ZZZZZ		12/30/2022 22:17	5		HP Plot 0.53 (mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1

SDG No.: _____

Instrument ID: 19506-B Start Date: 12/30/2022 16:24Analysis Batch Number: 331616 End Date: 12/30/2022 22:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-331616/43		12/30/2022 22:25	1		HP Plot 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-112785-1

SDG No.: _____

Instrument ID: 19506-BStart Date: 01/20/2023 08:46Analysis Batch Number: 337247End Date: 01/20/2023 13:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-337247/4		01/20/2023 08:46	1	312023_01_20B.0 004.d	HP Plot 0.53 (mm)
MB 410-337244/1-A		01/20/2023 09:00	1	312023_01_20B.0 005.d	HP Plot 0.53 (mm)
LCS 410-337244/2-A		01/20/2023 09:07	1	312023_01_20B.0 006.d	HP Plot 0.53 (mm)
LCSD 410-337244/3-A		01/20/2023 09:16	1	312023_01_20B.0 007.d	HP Plot 0.53 (mm)
ZZZZZ		01/20/2023 09:29	1		HP Plot 0.53 (mm)
ZZZZZ		01/20/2023 09:36	1		HP Plot 0.53 (mm)
ZZZZZ		01/20/2023 09:44	1		HP Plot 0.53 (mm)
ZZZZZ		01/20/2023 09:52	1		HP Plot 0.53 (mm)
ZZZZZ		01/20/2023 09:59	1		HP Plot 0.53 (mm)
ZZZZZ		01/20/2023 10:07	1		HP Plot 0.53 (mm)
ZZZZZ		01/20/2023 10:15	1		HP Plot 0.53 (mm)
CCV 410-337247/15		01/20/2023 10:22	1	312023_01_20B.0 015.d	HP Plot 0.53 (mm)
410-112785-3	HS23010587-03	01/20/2023 10:56	1	312023_01_20B.0 016.d	HP Plot 0.53 (mm)
410-112785-4	HS23010587-04	01/20/2023 11:03	1	312023_01_20B.0 017.d	HP Plot 0.53 (mm)
ZZZZZ		01/20/2023 11:11	1		HP Plot 0.53 (mm)
410-112785-6	HS23010587-06	01/20/2023 11:19	1	312023_01_20B.0 019.d	HP Plot 0.53 (mm)
CCV 410-337247/20		01/20/2023 11:26	1	312023_01_20B.0 020.d	HP Plot 0.53 (mm)
MB 410-337359/1-A		01/20/2023 12:46	1	312023_01_20B.0 021.d	HP Plot 0.53 (mm)
LCS 410-337359/2-A		01/20/2023 12:53	1	312023_01_20B.0 022.d	HP Plot 0.53 (mm)
LCSD 410-337359/3-A		01/20/2023 13:01	1	312023_01_20B.0 023.d	HP Plot 0.53 (mm)
410-112785-1	HS23010587-01	01/20/2023 13:17	5	312023_01_20B.0 024.d	HP Plot 0.53 (mm)
410-112785-2	HS23010587-02	01/20/2023 13:24	5	312023_01_20B.0 025.d	HP Plot 0.53 (mm)
410-112785-5	HS23010587-05	01/20/2023 13:32	5	312023_01_20B.0 026.d	HP Plot 0.53 (mm)
CCV 410-337247/27		01/20/2023 13:40	1	312023_01_20B.0 027.d	HP Plot 0.53 (mm)



GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-112785-1

SDG No.: _____

Batch Number: 331616 Batch Start Date: 12/30/22 16:24 Batch Analyst: Patrushev, James PBatch Method: RSK-175 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EPH_CO2ICV 00002	EPH_CO2MS 00004		
IC 410-331616/2		RSK-175		5 mL	5 mL		30 uL		
IC 410-331616/3		RSK-175		5 mL	5 mL		60 uL		
ICRT 410-331616/4		RSK-175		5 mL	5 mL		100 uL		
IC 410-331616/5		RSK-175		5 mL	5 mL		250 uL		
IC 410-331616/6		RSK-175		5 mL	5 mL		500 uL		
ICV 410-331616/10		RSK-175		5 mL	5 mL	0.32 mL			

Batch Notes	

Basis	Basis Description



The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-112785-1

SDG No.: _____

Batch Number: 337244 Batch Start Date: 01/20/23 08:38 Batch Analyst: Gonzalez, Ryan ABatch Method: RSK-175 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00004	
MB 410-337244/1		RSK-175, RSK-175		n/a SU	5 mL	5 mL	n/a		
LCS 410-337244/2		RSK-175, RSK-175		n/a SU	5 mL	5 mL	n/a	0.1 mL	
LCSD 410-337244/3		RSK-175, RSK-175		n/a SU	5 mL	5 mL	n/a	0.1 mL	
410-112785-A-3	HS23010587-03	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	no		
410-112785-A-4	HS23010587-04	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	no		
410-112785-A-6	HS23010587-06	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	no		

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	7312058276447

Basis	Basis Description
T	Total/NA



The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

RSK-175

Page 1 of 1

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-112785-1

SDG No.: _____

Batch Number: 337359 Batch Start Date: 01/20/23 12:37 Batch Analyst: Gonzalez, Ryan ABatch Method: RSK-175 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00004	
MB 410-337359/1		RSK-175, RSK-175		n/a SU	5 mL	5 mL	n/a		
LCS 410-337359/2		RSK-175, RSK-175		n/a SU	5 mL	5 mL	n/a	0.1 mL	
LCSD 410-337359/3		RSK-175, RSK-175		n/a SU	5 mL	5 mL	n/a	0.1 mL	
410-112785-B-1	HS23010587-01	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	no		
410-112785-B-2	HS23010587-02	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	no		
410-112785-B-5	HS23010587-05	RSK-175, RSK-175	T	7 SU	5 mL	5 mL	no		

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	7312058276447

Basis	Basis Description
T	Total/NA



The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

RSK-175

Page 1 of 1

Shipping and Receiving Documents



410-112785 Chain of Custody

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: 20738

SUBCONTRACT TO:

Pace Analytical
7979 Innovation Park Drive
Baton Rouge, LA 70820

Phone: +1 225 769 4900

**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: HS23010587
TSR: Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS23010587-01	35AWW11_011223	Water	12 Jan 2023 07:25
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			27 Jan 2023
2.	HS23010587-02	35AWW20_011223	Water	12 Jan 2023 08:15
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			27 Jan 2023
3.	HS23010587-03	LHSMW07_011223	Water	12 Jan 2023 09:05
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			27 Jan 2023
4.	HS23010587-04	35AWW06_011223	Water	12 Jan 2023 09:55
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			27 Jan 2023
5.	HS23010587-05	35AWW23_011223	Water	12 Jan 2023 10:45
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			27 Jan 2023
6.	HS23010587-06	35AWW19_011223	Water	12 Jan 2023 11:35
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			27 Jan 2023

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

QC Level: DOD IV (DoD Data Package)

F

RIGHT SOLUTIONS | RIGHT PARTNER

13 Jan 2023

Page 1 of 2





Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 20738

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Cooler ID(s): _____

Temperature(s): _____

Fed Ex 1/17/23 857
 Breuners Lab 1/17/23 857 E 38 3.6

Relinq: Cy 1/18/23 17:00 5789 2003 2685
 Rec: FedEx

Rec'd by: [Signature] 1/19/23 0950

SM

DB

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-112785-1

Login Number: 112785**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC****List Number: 1****Creator: McCaskey, Jonathan**

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	



HS23010794 LHAAP58 Cover Page

ALS WO# HS23010794



ALS Environmental
ALS Group USA, Corp
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Houston, TX 77099
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www.alsglobal.com

Table of Contents

HS23010794 LHAAP58 Cover Page

CoverPage

HS23010794 LHAAP58 Final

CoverLetter

Sample Summary

CaseNarrative

35AWW24_011323

35AWW05_011323

35AWW05_011323_a

LHSMW06_011323

35AWW26_011323

35AWW26_011323_a

35AWW15_011323

Trip Blank

Weight/Volume Log

Dates Report

QC

Acronyms

Certifications

SampleReceiptCheckList

COC

HS23010794-MSVOA-SW8260

Table of Contents (continued)

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 424237

Raw Data VOA6 426067

HS23010794 - ME - ICP_W_DOD

Form 13 - ICPMS07_426363 Run Log

Form 2 - ICPMS07_426363 CCV

Form 3 - ICPMS07_426363 CCB

Form 4 - ICPMS07_426363 ICSA

Form 5A - ICPMS07_426363 MS

Form 5B - ICPMS07_426363 PDS

Form 7 - ICPMS07_426363 LCS

Form 8 - ICPMS07_426363 SD





right solutions.
right partner.

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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alsglobal.com

WorkOrder: HS23010794

LHAAP-58

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

30-Jan-2023



HS23010794 LHAAP58 Final

ALS WO# HS23010794





10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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January 27, 2023

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

Work Order: **HS23010794**

Laboratory Results for: **LHAAP-58**

Dear Marcia Olive,

ALS Environmental received 8 sample(s) on Jan 14, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER

Dane J. Wacasey



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Work Order: HS23010794

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23010794-01	35AWW24_011323	Water		13-Jan-2023 08:15	14-Jan-2023 08:50	☐
HS23010794-02	35AWW05_011323	Water		13-Jan-2023 09:10	14-Jan-2023 08:50	☐
HS23010794-03	35AWW05_011323_a	Water		13-Jan-2023 09:10	14-Jan-2023 08:50	☐
HS23010794-04	LHSMW06_011323	Water		13-Jan-2023 09:55	14-Jan-2023 08:50	☐
HS23010794-05	35AWW26_011323	Water		13-Jan-2023 10:40	14-Jan-2023 08:50	☐
HS23010794-06	35AWW26_011323_a	Water		13-Jan-2023 10:40	14-Jan-2023 08:50	☐
HS23010794-07	35AWW15_011323	Water		13-Jan-2023 11:25	14-Jan-2023 08:50	☐
HS23010794-08	Trip Blank	Water	CG-102122 -394	13-Jan-2023 00:00	14-Jan-2023 08:50	☐



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Work Order: HS23010794

CASE NARRATIVE

GCMS Volatiles by Method SW8260**Batch ID: R426067****Sample ID: VLCSW-230118**

- Hexachlorobutadiene exceeded QC limits for LCS. Samples are ND for this compound.

Sample ID: 35AWW24_011323 (HS23010794-01MS)

- MS and/or MSD recovered outside control limits for multiple compounds

Metals by Method SW6020A**Batch ID: 188726**

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW24_011323
 Collection Date: 13-Jan-2023 08:15

ANALYTICAL REPORT

WorkOrder:HS23010794
 Lab ID:HS23010794-01
 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method:SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 14:36
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 14:36
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-Jan-2023 14:36
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 14:36
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-Jan-2023 14:36
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 14:36
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-Jan-2023 14:36
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW24_011323
 Collection Date: 13-Jan-2023 08:15

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-01
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 14:36
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 14:36
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 14:36
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 14:36
Surr: 1,2-Dichloroethane-d4	95.2			0	81-118	%REC	1	18-Jan-2023 14:36
Surr: 4-Bromofluorobenzene	97.5			0	85-114	%REC	1	18-Jan-2023 14:36
Surr: Dibromofluoromethane	91.4			0	80-119	%REC	1	18-Jan-2023 14:36
Surr: Toluene-d8	107			0	89-112	%REC	1	18-Jan-2023 14:36

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW05_011323
 Collection Date: 13-Jan-2023 09:10

ANALYTICAL REPORT

WorkOrder:HS23010794
 Lab ID:HS23010794-02
 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method:SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:03
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 17:03
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-Jan-2023 17:03
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:03
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-Jan-2023 17:03
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 17:03
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-Jan-2023 17:03
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW05_011323
 Collection Date: 13-Jan-2023 09:10

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-02
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD			Method: SW8260					Analyst: PC
8260C								
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 17:03
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 17:03
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:03
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:03
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:03
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.4</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>18-Jan-2023 17:03</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.8</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>18-Jan-2023 17:03</i>
<i>Surr: Dibromofluoromethane</i>	<i>91.0</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>18-Jan-2023 17:03</i>
<i>Surr: Toluene-d8</i>	<i>106</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>18-Jan-2023 17:03</i>

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW05_011323_a
 Collection Date: 13-Jan-2023 09:10

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-03
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:24
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 17:24
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-Jan-2023 17:24
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:24
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-Jan-2023 17:24
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 17:24
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-Jan-2023 17:24
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW05_011323_a
 Collection Date: 13-Jan-2023 09:10

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-03
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 17:24
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 17:24
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:24
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:24
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:24
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.3</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>18-Jan-2023 17:24</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.9</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>18-Jan-2023 17:24</i>
<i>Surr: Dibromofluoromethane</i>	<i>91.0</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>18-Jan-2023 17:24</i>
<i>Surr: Toluene-d8</i>	<i>105</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>18-Jan-2023 17:24</i>

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: LHSMW06_011323
 Collection Date: 13-Jan-2023 09:55

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-04
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,1-Dichloroethane	8.2		0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,1-Dichloroethene	22		0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:45
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 17:45
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-Jan-2023 17:45
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:45
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-Jan-2023 17:45
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 17:45
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-Jan-2023 17:45
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: LHSMW06_011323
 Collection Date: 13-Jan-2023 09:55

ANALYTICAL REPORT

WorkOrder:HS23010794
 Lab ID:HS23010794-04
 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		Method:SW8260						Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
cis-1,2-Dichloroethene	130		0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 17:45
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 17:45
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 17:45
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Tetrachloroethene	4.3		0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
trans-1,2-Dichloroethene	2.7		0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Trichloroethene	24		0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Vinyl chloride	7.6		0.20	1.0	1.0	ug/L	1	18-Jan-2023 17:45
Surr: 1,2-Dichloroethane-d4	93.7			0	81-118	%REC	1	18-Jan-2023 17:45
Surr: 4-Bromofluorobenzene	97.0			0	85-114	%REC	1	18-Jan-2023 17:45
Surr: Dibromofluoromethane	91.1			0	80-119	%REC	1	18-Jan-2023 17:45
Surr: Toluene-d8	106			0	89-112	%REC	1	18-Jan-2023 17:45
METALS BY ICPMS BY SW6020A		Method:SW6020A				Prep:SW3010A / 23-Jan-2023		Analyst: JC
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	24-Jan-2023 15:27

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW26_011323
 Collection Date: 13-Jan-2023 10:40

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-05
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD			Method: SW8260					
8260C								Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,1-Dichloroethane	17		0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,1-Dichloroethene	72		0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:06
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 18:06
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-Jan-2023 18:06
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:06
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-Jan-2023 18:06
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 18:06
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-Jan-2023 18:06
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:06
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:06

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW26_011323
 Collection Date: 13-Jan-2023 10:40

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-05
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED	
VOLATILES ORGANICS BY METHOD		Method: SW8260							Analyst: PC
8260C									
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
cis-1,2-Dichloroethene	1.5		0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023	18:06
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023	18:06
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023	18:06
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023	18:06
Vinyl chloride	12		0.20	1.0	1.0	ug/L	1	18-Jan-2023	18:06
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.7</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>18-Jan-2023</i>	<i>18:06</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.3</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>18-Jan-2023</i>	<i>18:06</i>
<i>Surr: Dibromofluoromethane</i>	<i>91.2</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>18-Jan-2023</i>	<i>18:06</i>
<i>Surr: Toluene-d8</i>	<i>107</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>18-Jan-2023</i>	<i>18:06</i>

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW26_011323_a
 Collection Date: 13-Jan-2023 10:40

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-06
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		Method: SW8260						Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,1-Dichloroethane	18		0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,1-Dichloroethene	76		0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:27
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 18:27
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-Jan-2023 18:27
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:27
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-Jan-2023 18:27
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 18:27
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-Jan-2023 18:27
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW26_011323_a
 Collection Date: 13-Jan-2023 10:40

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-06
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
cis-1,2-Dichloroethene	1.4		0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 18:27
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 18:27
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:27
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:27
Vinyl chloride	12		0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:27
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.4</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>18-Jan-2023 18:27</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.0</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>18-Jan-2023 18:27</i>
<i>Surr: Dibromofluoromethane</i>	<i>90.3</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>18-Jan-2023 18:27</i>
<i>Surr: Toluene-d8</i>	<i>106</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>18-Jan-2023 18:27</i>

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW15_011323
 Collection Date: 13-Jan-2023 11:25

ANALYTICAL REPORT

WorkOrder:HS23010794
 Lab ID:HS23010794-07
 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method:SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:48
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 18:48
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-Jan-2023 18:48
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:48
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-Jan-2023 18:48
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 18:48
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-Jan-2023 18:48
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW15_011323
 Collection Date: 13-Jan-2023 11:25

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-07
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 18:48
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 18:48
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 18:48
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 18:48
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 18:48
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.9</i>			<i>0</i>	<i>81-118</i>	<i>%REC</i>	<i>1</i>	<i>18-Jan-2023 18:48</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.1</i>			<i>0</i>	<i>85-114</i>	<i>%REC</i>	<i>1</i>	<i>18-Jan-2023 18:48</i>
<i>Surr: Dibromofluoromethane</i>	<i>91.1</i>			<i>0</i>	<i>80-119</i>	<i>%REC</i>	<i>1</i>	<i>18-Jan-2023 18:48</i>
<i>Surr: Toluene-d8</i>	<i>105</i>			<i>0</i>	<i>89-112</i>	<i>%REC</i>	<i>1</i>	<i>18-Jan-2023 18:48</i>

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: Trip Blank
 Collection Date: 13-Jan-2023 00:00

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-08
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 13:54
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 13:54
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	18-Jan-2023 13:54
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 13:54
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	18-Jan-2023 13:54
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 13:54
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	18-Jan-2023 13:54
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54

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



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: Trip Blank
 Collection Date: 13-Jan-2023 00:00

ANALYTICAL REPORT

WorkOrder: HS23010794
 Lab ID: HS23010794-08
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD			Method: SW8260					Analyst: PC
8260C								
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	18-Jan-2023 13:54
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	18-Jan-2023 13:54
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	18-Jan-2023 13:54
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	18-Jan-2023 13:54
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	18-Jan-2023 13:54
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.4</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>18-Jan-2023 13:54</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.2</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>18-Jan-2023 13:54</i>
<i>Surr: Dibromofluoromethane</i>	<i>91.3</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>18-Jan-2023 13:54</i>
<i>Surr: Toluene-d8</i>	<i>107</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>18-Jan-2023 13:54</i>

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



Weight / Prep Log

Client: Bhate Environmental Associates, Inc.**Project:** LHAAP-58**WorkOrder:** HS23010794**Batch ID:** 188726**Start Date:** 23 Jan 2023 13:00**End Date:** 23 Jan 2023 17:00**Method:** WATER - SW3010A**Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23010794-04		10 (mL)	10 (mL)	1	120 plastic HNO3



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.**Project:** LHAAP-58**WorkOrder:** HS23010794**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 188726 (0)		Test Name : METALS BY ICPMS BY SW6020A			Matrix: Water	
HS23010794-04	LHSMW06_011323	13 Jan 2023 09:55		23 Jan 2023 13:00	24 Jan 2023 15:27	1
Batch ID: R426067 (0)		Test Name : VOLATILES ORGANICS BY METHOD 8260C			Matrix: Water	
HS23010794-01	35AWW24_011323	13 Jan 2023 08:15			18 Jan 2023 14:36	1
HS23010794-02	35AWW05_011323	13 Jan 2023 09:10			18 Jan 2023 17:03	1
HS23010794-03	35AWW05_011323_a	13 Jan 2023 09:10			18 Jan 2023 17:24	1
HS23010794-04	LHSMW06_011323	13 Jan 2023 09:55			18 Jan 2023 17:45	1
HS23010794-05	35AWW26_011323	13 Jan 2023 10:40			18 Jan 2023 18:06	1
HS23010794-06	35AWW26_011323_a	13 Jan 2023 10:40			18 Jan 2023 18:27	1
HS23010794-07	35AWW15_011323	13 Jan 2023 11:25			18 Jan 2023 18:48	1
HS23010794-08	Trip Blank	13 Jan 2023 00:00			18 Jan 2023 13:54	1



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: 188726 (0)		Instrument: ICPMS07		Method: METALS BY ICPMS BY SW6020A					
MBLK	Sample ID: MBLK-188726	Units: mg/L		Analysis Date: 24-Jan-2023 14:45					
Client ID:	Run ID: ICPMS07_426363	SeqNo: 7085724		PrepDate: 23-Jan-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.00125	0.00500							U
LCS	Sample ID: LCS-188726	Units: mg/L		Analysis Date: 24-Jan-2023 14:47					
Client ID:	Run ID: ICPMS07_426363	SeqNo: 7085725		PrepDate: 23-Jan-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.04972	0.00500	0.05	0	99.4	84 - 116			
MS	Sample ID: HS23010489-02MS	Units: mg/L		Analysis Date: 24-Jan-2023 14:53					
Client ID:	Run ID: ICPMS07_426363	SeqNo: 7085728		PrepDate: 23-Jan-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.0541	0.00500	0.05	0.00062	107	84 - 116			
MSD	Sample ID: HS23010489-02MSD	Units: mg/L		Analysis Date: 24-Jan-2023 14:55					
Client ID:	Run ID: ICPMS07_426363	SeqNo: 7085729		PrepDate: 23-Jan-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.05371	0.00500	0.05	0.00062	106	84 - 116	0.0541	0.716	20
PDS	Sample ID: HS23010489-02PDS	Units: mg/L		Analysis Date: 24-Jan-2023 14:57					
Client ID:	Run ID: ICPMS07_426363	SeqNo: 7085730		PrepDate: 23-Jan-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.106	0.00500	0.1	0.00062	105	80 - 120			
SD	Sample ID: HS23010489-02SD	Units: mg/L		Analysis Date: 24-Jan-2023 14:51					
Client ID:	Run ID: ICPMS07_426363	SeqNo: 7085727		PrepDate: 23-Jan-2023		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual
Arsenic	0.00625	0.0250					0.00062	0 10	U
The following samples were analyzed in this batch: HS23010794-04									



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)		Instrument: VOA6		Method: VOLATILES ORGANICS BY METHOD 8260C					
MBLK	Sample ID: VBLKW-230118	Units: ug/L		Analysis Date: 18-Jan-2023 13:12					
Client ID:	Run ID: VOA6_426067	SeqNo: 7078506		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	1.0	1.0							U
1,1,1-Trichloroethane	1.0	1.0							U
1,1,2,2-Tetrachloroethane	1.0	1.0							U
1,1,2-Trichloroethane	1.0	1.0							U
1,1-Dichloroethane	1.0	1.0							U
1,1-Dichloroethene	1.0	1.0							U
1,1-Dichloropropene	1.0	1.0							U
1,2,3-Trichlorobenzene	1.0	1.0							U
1,2,3-Trichloropropane	1.0	1.0							U
1,2,4-Trichlorobenzene	1.0	1.0							U
1,2,4-Trimethylbenzene	1.0	1.0							U
1,2-Dibromo-3-chloropropane	1.0	1.0							U
1,2-Dibromoethane	1.0	1.0							U
1,2-Dichlorobenzene	1.0	1.0							U
1,2-Dichloroethane	1.0	1.0							U
1,2-Dichloropropane	1.0	1.0							U
1,3,5-Trimethylbenzene	1.0	1.0							U
1,3-Dichlorobenzene	1.0	1.0							U
1,3-Dichloropropane	1.0	1.0							U
1,4-Dichlorobenzene	1.0	1.0							U
2,2-Dichloropropane	1.0	1.0							U
2-Butanone	1.0	2.0							U
2-Chlorotoluene	1.0	1.0							U
2-Hexanone	1.0	2.0							U
4-Chlorotoluene	1.0	1.0							U
4-Isopropyltoluene	1.0	1.0							U
4-Methyl-2-pentanone	1.0	2.0							U
Acetone	1.0	2.0							U
Benzene	1.0	1.0							U
Bromobenzene	1.0	1.0							U
Bromochloromethane	1.0	1.0							U
Bromodichloromethane	1.0	1.0							U
Bromoform	1.0	1.0							U
Bromomethane	1.0	1.0							U



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)		Instrument: VOA6		Method: VOLATILES ORGANICS BY METHOD 8260C					
MBLK	Sample ID: VBLKW-230118	Units: ug/L		Analysis Date: 18-Jan-2023 13:12					
Client ID:	Run ID: VOA6_426067	SeqNo: 7078506		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	1.0	2.0							U
Carbon tetrachloride	1.0	1.0							U
Chlorobenzene	1.0	1.0							U
Chloroethane	1.0	1.0							U
Chloroform	1.0	1.0							U
Chloromethane	1.0	1.0							U
cis-1,2-Dichloroethene	1.0	1.0							U
cis-1,3-Dichloropropene	1.0	1.0							U
Dibromochloromethane	1.0	1.0							U
Dibromomethane	1.0	1.0							U
Dichlorodifluoromethane	1.0	1.0							U
Ethylbenzene	1.0	1.0							U
Hexachlorobutadiene	1.0	1.0							U
Isopropylbenzene	1.0	1.0							U
m,p-Xylene	1.0	2.0							U
Methylene chloride	1.0	2.0							U
Naphthalene	1.0	1.0							U
n-Butylbenzene	1.0	1.0							U
n-Propylbenzene	1.0	1.0							U
o-Xylene	1.0	1.0							U
sec-Butylbenzene	1.0	1.0							U
Styrene	1.0	1.0							U
tert-Butylbenzene	1.0	1.0							U
Tetrachloroethene	1.0	1.0							U
Toluene	1.0	1.0							U
trans-1,2-Dichloroethene	1.0	1.0							U
trans-1,3-Dichloropropene	1.0	1.0							U
Trichloroethene	1.0	1.0							U
Trichlorofluoromethane	1.0	1.0							U
Vinyl chloride	1.0	1.0							U
Surr: 1,2-Dichloroethane-d4	48.48	1.0	50	0	97.0	81 - 118			
Surr: 4-Bromofluorobenzene	49.28	1.0	50	0	98.6	85 - 114			
Surr: Dibromofluoromethane	45.75	1.0	50	0	91.5	80 - 119			
Surr: Toluene-d8	52.8	1.0	50	0	106	89 - 112			



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)		Instrument: VOA6		Method: VOLATILES ORGANICS BY METHOD 8260C						
LCS		Sample ID: VLCSW-230118		Units: ug/L		Analysis Date: 18-Jan-2023 12:30				
Client ID:		Run ID: VOA6_426067		SeqNo: 7078505		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	20.77	1.0	20	0	104	78 - 124				
1,1,1-Trichloroethane	21.01	1.0	20	0	105	74 - 131				
1,1,2,2-Tetrachloroethane	21.43	1.0	20	0	107	71 - 121				
1,1,2-Trichloroethane	21.15	1.0	20	0	106	80 - 119				
1,1-Dichloroethane	20.6	1.0	20	0	103	77 - 125				
1,1-Dichloroethene	20.26	1.0	20	0	101	71 - 131				
1,1-Dichloropropene	22.47	1.0	20	0	112	78 - 125				
1,2,3-Trichlorobenzene	25.36	1.0	20	0	127	69 - 129				
1,2,3-Trichloropropane	23.58	1.0	20	0	118	73 - 122				
1,2,4-Trichlorobenzene	25.83	1.0	20	0	129	69 - 130				
1,2,4-Trimethylbenzene	22.74	1.0	20	0	114	76 - 124				
1,2-Dibromo-3-chloropropane	21.78	1.0	20	0	109	62 - 128				
1,2-Dibromoethane	22.22	1.0	20	0	111	77 - 121				
1,2-Dichlorobenzene	21.68	1.0	20	0	108	80 - 119				
1,2-Dichloroethane	22.87	1.0	20	0	114	73 - 128				
1,2-Dichloropropane	20.92	1.0	20	0	105	78 - 122				
1,3,5-Trimethylbenzene	23.36	1.0	20	0	117	75 - 124				
1,3-Dichlorobenzene	22.35	1.0	20	0	112	80 - 119				
1,3-Dichloropropane	21.46	1.0	20	0	107	80 - 119				
1,4-Dichlorobenzene	21.88	1.0	20	0	109	79 - 118				
2,2-Dichloropropane	21.63	1.0	20	0	108	60 - 139				
2-Butanone	46.88	2.0	40	0	117	56 - 143				
2-Chlorotoluene	22.04	1.0	20	0	110	79 - 122				
2-Hexanone	50.84	2.0	40	0	127	57 - 139				
4-Chlorotoluene	22.69	1.0	20	0	113	78 - 122				
4-Isopropyltoluene	24.71	1.0	20	0	124	77 - 127				
4-Methyl-2-pentanone	47.52	2.0	40	0	119	67 - 130				
Acetone	52.35	2.0	40	0	131	39 - 160				
Benzene	20.98	1.0	20	0	105	79 - 120				
Bromobenzene	20.53	1.0	20	0	103	80 - 120				
Bromochloromethane	19.55	1.0	20	0	97.8	78 - 123				
Bromodichloromethane	20.35	1.0	20	0	102	79 - 125				
Bromoform	20.55	1.0	20	0	103	66 - 130				
Bromomethane	20.63	1.0	20	0	103	53 - 141				



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)		Instrument: VOA6		Method: VOLATILES ORGANICS BY METHOD 8260C					
LCS		Sample ID: VLCSW-230118		Units: ug/L		Analysis Date: 18-Jan-2023 12:30			
Client ID:		Run ID: VOA6_426067		SeqNo: 7078505		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	41.25	2.0	40	0	103	64 - 133			
Carbon tetrachloride	20.27	1.0	20	0	101	72 - 136			
Chlorobenzene	20.44	1.0	20	0	102	82 - 118			
Chloroethane	19.12	1.0	20	0	95.6	60 - 138			
Chloroform	20.54	1.0	20	0	103	79 - 124			
Chloromethane	20.73	1.0	20	0	104	50 - 139			
cis-1,2-Dichloroethene	19.69	1.0	20	0	98.4	78 - 123			
cis-1,3-Dichloropropene	21.19	1.0	20	0	106	75 - 124			
Dibromochloromethane	20.88	1.0	20	0	104	74 - 126			
Dibromomethane	21.16	1.0	20	0	106	79 - 123			
Dichlorodifluoromethane	17.91	1.0	20	0	89.5	32 - 152			
Ethylbenzene	21.73	1.0	20	0	109	79 - 121			
Hexachlorobutadiene	26.81	1.0	20	0	134	66 - 134			S
Isopropylbenzene	22.96	1.0	20	0	115	72 - 131			
m,p-Xylene	43.1	2.0	40	0	108	80 - 121			
Methylene chloride	20.62	2.0	20	0	103	74 - 124			
Naphthalene	25.56	1.0	20	0	128	61 - 128			
n-Butylbenzene	24.2	1.0	20	0	121	75 - 128			
n-Propylbenzene	23.44	1.0	20	0	117	76 - 126			
o-Xylene	21.28	1.0	20	0	106	78 - 122			
sec-Butylbenzene	24.35	1.0	20	0	122	77 - 126			
Styrene	21.81	1.0	20	0	109	78 - 123			
tert-Butylbenzene	23.28	1.0	20	0	116	78 - 124			
Tetrachloroethene	21.64	1.0	20	0	108	74 - 129			
Toluene	21.06	1.0	20	0	105	80 - 121			
trans-1,2-Dichloroethene	20.02	1.0	20	0	100	75 - 124			
trans-1,3-Dichloropropene	21.62	1.0	20	0	108	73 - 127			
Trichloroethene	21.01	1.0	20	0	105	79 - 123			
Trichlorofluoromethane	20.91	1.0	20	0	105	65 - 141			
Vinyl chloride	19.66	1.0	20	0	98.3	58 - 137			
Surr: 1,2-Dichloroethane-d4	54.17	1.0	50	0	108	81 - 118			
Surr: 4-Bromofluorobenzene	49.94	1.0	50	0	99.9	85 - 114			
Surr: Dibromofluoromethane	48.9	1.0	50	0	97.8	80 - 119			
Surr: Toluene-d8	49.77	1.0	50	0	99.5	89 - 112			



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)		Instrument: VOA6		Method: VOLATILES ORGANICS BY METHOD 8260C					
MS		Sample ID: HS23010794-01MS		Units: ug/L		Analysis Date: 18-Jan-2023 15:18			
Client ID: 35AWW24_011323		Run ID: VOA6_426067		SeqNo: 7078512		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	20.74	1.0	20	0	104	78 - 124			
1,1,1-Trichloroethane	21.71	1.0	20	0	109	74 - 131			
1,1,2,2-Tetrachloroethane	20.76	1.0	20	0	104	71 - 121			
1,1,2-Trichloroethane	20.13	1.0	20	0	101	80 - 119			
1,1-Dichloroethane	19.79	1.0	20	0	98.9	77 - 125			
1,1-Dichloroethene	25.05	1.0	20	0	125	71 - 131			
1,1-Dichloropropene	24.95	1.0	20	0	125	78 - 125			
1,2,3-Trichlorobenzene	23.45	1.0	20	0	117	69 - 129			
1,2,3-Trichloropropane	20.98	1.0	20	0	105	73 - 122			
1,2,4-Trichlorobenzene	23.93	1.0	20	0	120	69 - 130			
1,2,4-Trimethylbenzene	24.37	1.0	20	0	122	76 - 124			
1,2-Dibromo-3-chloropropane	20.19	1.0	20	0	101	62 - 128			
1,2-Dibromoethane	20.49	1.0	20	0	102	77 - 121			
1,2-Dichlorobenzene	22.35	1.0	20	0	112	80 - 119			
1,2-Dichloroethane	20.91	1.0	20	0	105	73 - 128			
1,2-Dichloropropane	19.83	1.0	20	0	99.2	78 - 122			
1,3,5-Trimethylbenzene	25.65	1.0	20	0	128	75 - 124			S
1,3-Dichlorobenzene	23.53	1.0	20	0	118	80 - 119			
1,3-Dichloropropane	20.69	1.0	20	0	103	80 - 119			
1,4-Dichlorobenzene	22.59	1.0	20	0	113	79 - 118			
2,2-Dichloropropane	21.64	1.0	20	0	108	60 - 139			
2-Butanone	34.38	2.0	40	0	85.9	56 - 143			
2-Chlorotoluene	23.9	1.0	20	0	120	79 - 122			
2-Hexanone	42.18	2.0	40	0	105	57 - 139			
4-Chlorotoluene	24.17	1.0	20	0	121	78 - 122			
4-Isopropyltoluene	28.2	1.0	20	0	141	77 - 127			S
4-Methyl-2-pentanone	41.93	2.0	40	0	105	67 - 130			
Acetone	30.42	2.0	40	0	76.1	39 - 160			
Benzene	21.19	1.0	20	0	106	79 - 120			
Bromobenzene	21.37	1.0	20	0	107	80 - 120			
Bromochloromethane	17.31	1.0	20	0	86.6	78 - 123			
Bromodichloromethane	19.35	1.0	20	0	96.7	79 - 125			
Bromoform	19.25	1.0	20	0	96.2	66 - 130			
Bromomethane	20.41	1.0	20	0	102	53 - 141			



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)		Instrument: VOA6		Method: VOLATILES ORGANICS BY METHOD 8260C					
MS		Sample ID: HS23010794-01MS		Units: ug/L		Analysis Date: 18-Jan-2023 15:18			
Client ID: 35AWW24_011323		Run ID: VOA6_426067		SeqNo: 7078512		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	42.92	2.0	40	0	107	64 - 133			
Carbon tetrachloride	23.62	1.0	20	0	118	72 - 136			
Chlorobenzene	21.22	1.0	20	0	106	82 - 118			
Chloroethane	19.62	1.0	20	0	98.1	60 - 138			
Chloroform	19.17	1.0	20	0	95.9	79 - 124			
Chloromethane	20.63	1.0	20	0	103	50 - 139			
cis-1,2-Dichloroethene	18.98	1.0	20	0	94.9	78 - 123			
cis-1,3-Dichloropropene	19.85	1.0	20	0	99.2	75 - 124			
Dibromochloromethane	19.87	1.0	20	0	99.4	74 - 126			
Dibromomethane	19.04	1.0	20	0	95.2	79 - 123			
Dichlorodifluoromethane	19.61	1.0	20	0	98.0	32 - 152			
Ethylbenzene	23.49	1.0	20	0	117	79 - 121			
Hexachlorobutadiene	26.98	1.0	20	0	135	66 - 134			S
Isopropylbenzene	25.46	1.0	20	0	127	72 - 131			
m,p-Xylene	46.04	2.0	40	0	115	80 - 121			
Methylene chloride	17.86	2.0	20	0	89.3	74 - 124			
Naphthalene	22.81	1.0	20	0	114	61 - 128			
n-Butylbenzene	26.78	1.0	20	0	134	75 - 128			S
n-Propylbenzene	26.69	1.0	20	0	133	76 - 126			S
o-Xylene	22.48	1.0	20	0	112	78 - 122			
sec-Butylbenzene	28.6	1.0	20	0	143	77 - 126			S
Styrene	22.51	1.0	20	0	113	78 - 123			
tert-Butylbenzene	26.92	1.0	20	0	135	78 - 124			S
Tetrachloroethene	25.05	1.0	20	0	125	74 - 129			
Toluene	22.31	1.0	20	0	112	80 - 121			
trans-1,2-Dichloroethene	20.03	1.0	20	0	100	75 - 124			
trans-1,3-Dichloropropene	19.8	1.0	20	0	99.0	73 - 127			
Trichloroethene	22.4	1.0	20	0	112	79 - 123			
Trichlorofluoromethane	24.37	1.0	20	0	122	65 - 141			
Vinyl chloride	22.19	1.0	20	0	111	58 - 137			
Surr: 1,2-Dichloroethane-d4	46.79	1.0	50	0	93.6	81 - 118			
Surr: 4-Bromofluorobenzene	50.15	1.0	50	0	100	85 - 114			
Surr: Dibromofluoromethane	45.54	1.0	50	0	91.1	80 - 119			
Surr: Toluene-d8	52.54	1.0	50	0	105	89 - 112			



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)		Instrument: VOA6		Method: VOLATILES ORGANICS BY METHOD 8260C					
MSD		Sample ID: HS23010794-01MSD		Units: ug/L		Analysis Date: 18-Jan-2023 15:39			
Client ID: 35AWW24_011323		Run ID: VOA6_426067		SeqNo: 7078513		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	19.63	1.0	20	0	98.2	78 - 124	20.74	5.47	20
1,1,1-Trichloroethane	20.45	1.0	20	0	102	74 - 131	21.71	5.95	20
1,1,2,2-Tetrachloroethane	19.4	1.0	20	0	97.0	71 - 121	20.76	6.76	20
1,1,2-Trichloroethane	19.5	1.0	20	0	97.5	80 - 119	20.13	3.17	20
1,1-Dichloroethane	18.74	1.0	20	0	93.7	77 - 125	19.79	5.43	20
1,1-Dichloroethene	21.15	1.0	20	0	106	71 - 131	25.05	16.9	20
1,1-Dichloropropene	22.87	1.0	20	0	114	78 - 125	24.95	8.69	20
1,2,3-Trichlorobenzene	21.66	1.0	20	0	108	69 - 129	23.45	7.95	20
1,2,3-Trichloropropane	20.24	1.0	20	0	101	73 - 122	20.98	3.57	20
1,2,4-Trichlorobenzene	22.54	1.0	20	0	113	69 - 130	23.93	6.01	20
1,2,4-Trimethylbenzene	22.59	1.0	20	0	113	76 - 124	24.37	7.58	20
1,2-Dibromo-3-chloropropane	19.44	1.0	20	0	97.2	62 - 128	20.19	3.77	20
1,2-Dibromoethane	20.11	1.0	20	0	101	77 - 121	20.49	1.86	20
1,2-Dichlorobenzene	20.77	1.0	20	0	104	80 - 119	22.35	7.34	20
1,2-Dichloroethane	20.5	1.0	20	0	102	73 - 128	20.91	2.01	20
1,2-Dichloropropane	19.32	1.0	20	0	96.6	78 - 122	19.83	2.63	20
1,3,5-Trimethylbenzene	23.65	1.0	20	0	118	75 - 124	25.65	8.14	20
1,3-Dichlorobenzene	21.38	1.0	20	0	107	80 - 119	23.53	9.57	20
1,3-Dichloropropane	19.7	1.0	20	0	98.5	80 - 119	20.69	4.88	20
1,4-Dichlorobenzene	21.06	1.0	20	0	105	79 - 118	22.59	7.01	20
2,2-Dichloropropane	20.39	1.0	20	0	102	60 - 139	21.64	5.97	20
2-Butanone	34.34	2.0	40	0	85.9	56 - 143	34.38	0.0934	20
2-Chlorotoluene	22.04	1.0	20	0	110	79 - 122	23.9	8.08	20
2-Hexanone	41.31	2.0	40	0	103	57 - 139	42.18	2.09	20
4-Chlorotoluene	22.37	1.0	20	0	112	78 - 122	24.17	7.75	20
4-Isopropyltoluene	25.57	1.0	20	0	128	77 - 127	28.2	9.79	20 S
4-Methyl-2-pentanone	41.85	2.0	40	0	105	67 - 130	41.93	0.194	20
Acetone	30.42	2.0	40	0	76.0	39 - 160	30.42	0.0147	20
Benzene	19.84	1.0	20	0	99.2	79 - 120	21.19	6.59	20
Bromobenzene	20.12	1.0	20	0	101	80 - 120	21.37	6.03	20
Bromochloromethane	16.7	1.0	20	0	83.5	78 - 123	17.31	3.61	20
Bromodichloromethane	18.93	1.0	20	0	94.7	79 - 125	19.35	2.16	20
Bromoform	18.51	1.0	20	0	92.5	66 - 130	19.25	3.91	20
Bromomethane	19.8	1.0	20	0	99.0	53 - 141	20.41	3.02	20



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)		Instrument: VOA6		Method: VOLATILES ORGANICS BY METHOD 8260C					
MSD		Sample ID: HS23010794-01MSD		Units: ug/L		Analysis Date: 18-Jan-2023 15:39			
Client ID: 35AWW24_011323		Run ID: VOA6_426067		SeqNo: 7078513		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	40.07	2.0	40	0	100	64 - 133	42.92	6.87	20
Carbon tetrachloride	21.96	1.0	20	0	110	72 - 136	23.62	7.31	20
Chlorobenzene	19.79	1.0	20	0	98.9	82 - 118	21.22	6.98	20
Chloroethane	18.35	1.0	20	0	91.7	60 - 138	19.62	6.71	20
Chloroform	18.25	1.0	20	0	91.2	79 - 124	19.17	4.94	20
Chloromethane	18.98	1.0	20	0	94.9	50 - 139	20.63	8.32	20
cis-1,2-Dichloroethene	17.81	1.0	20	0	89.0	78 - 123	18.98	6.37	20
cis-1,3-Dichloropropene	19.1	1.0	20	0	95.5	75 - 124	19.85	3.84	20
Dibromochloromethane	19.23	1.0	20	0	96.1	74 - 126	19.87	3.3	20
Dibromomethane	18.73	1.0	20	0	93.6	79 - 123	19.04	1.65	20
Dichlorodifluoromethane	17.82	1.0	20	0	89.1	32 - 152	19.61	9.56	20
Ethylbenzene	22.15	1.0	20	0	111	79 - 121	23.49	5.88	20
Hexachlorobutadiene	24.69	1.0	20	0	123	66 - 134	26.98	8.88	20
Isopropylbenzene	23.64	1.0	20	0	118	72 - 131	25.46	7.4	20
m,p-Xylene	43.36	2.0	40	0	108	80 - 121	46.04	5.99	20
Methylene chloride	16.88	2.0	20	0	84.4	74 - 124	17.86	5.67	20
Naphthalene	21.6	1.0	20	0	108	61 - 128	22.81	5.47	20
n-Butylbenzene	25.01	1.0	20	0	125	75 - 128	26.78	6.83	20
n-Propylbenzene	24.51	1.0	20	0	123	76 - 126	26.69	8.49	20
o-Xylene	20.71	1.0	20	0	104	78 - 122	22.48	8.24	20
sec-Butylbenzene	26.26	1.0	20	0	131	77 - 126	28.6	8.53	20 S
Styrene	20.99	1.0	20	0	105	78 - 123	22.51	7	20
tert-Butylbenzene	24.76	1.0	20	0	124	78 - 124	26.92	8.36	20
Tetrachloroethene	23.15	1.0	20	0	116	74 - 129	25.05	7.9	20
Toluene	20.83	1.0	20	0	104	80 - 121	22.31	6.87	20
trans-1,2-Dichloroethene	18.86	1.0	20	0	94.3	75 - 124	20.03	6.04	20
trans-1,3-Dichloropropene	19.43	1.0	20	0	97.1	73 - 127	19.8	1.9	20
Trichloroethene	20.32	1.0	20	0	102	79 - 123	22.4	9.73	20
Trichlorofluoromethane	22.28	1.0	20	0	111	65 - 141	24.37	8.95	20
Vinyl chloride	20.15	1.0	20	0	101	58 - 137	22.19	9.65	20
Surr: 1,2-Dichloroethane-d4	46.98	1.0	50	0	94.0	81 - 118	46.79	0.417	20
Surr: 4-Bromofluorobenzene	49.74	1.0	50	0	99.5	85 - 114	50.15	0.818	20
Surr: Dibromofluoromethane	45.41	1.0	50	0	90.8	80 - 119	45.54	0.292	20
Surr: Toluene-d8	52.12	1.0	50	0	104	89 - 112	52.54	0.811	20



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.

Project: LHAAP-58

WorkOrder: HS23010794

QC BATCH REPORT

Batch ID: R426067 (0)

Instrument: VOA6

Method: VOLATILES ORGANICS BY METHOD
8260C

The following samples were analyzed in this batch:

HS23010794-01	HS23010794-02	HS23010794-03	HS23010794-04
HS23010794-05	HS23010794-06	HS23010794-07	HS23010794-08



ALS Houston, US

Date: 27-Jan-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23010794

**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 Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program



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	624-2023	31-Dec-2023
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: 27-Jan-23

Sample Receipt Checklist

Work Order ID: HS23010794

Date/Time Received: **14-Jan-2023 08:50**

Client Name: Bhate Environmental

Received by: **Malcolm Burleson**

Completed By: <u>/S/ Malcolm Burleson</u>	17-Jan-2023 17:01	Reviewed by: <u>/S/ Dane J. Wacasey</u>	23-Jan-2023 16:11
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 ☐	
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

2.0UC 1.5C IR31

Cooler(s)/Kit(s):

46476

Date/Time sample(s) sent to storage:

01172023 1420

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:



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 58

Client Name:

Collected by: **Scott Beesinger**

Sample Analysis Requested ^(b)

Quality Assurance Samples⁴⁶

Ambient Blank Lot
Control Number

Equipment Blank Lot
Control Number

	Trip Blank Lot Control
	Number

1

HS23010794

Bhate Environmental Associates, Inc.
LHAAP Site

Field Sample ID (30 Characters Max)	Date Collected (dd-mm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (1)	Sample Number (2)	Sample Matrix (4)	Number of copies	VO	AR
35AWW24_011323	13 JAN 2023	0815	-	N		WG	3	X	
35AWW24_011323_ms	13 JAN 2023	0815	-	MS		WG	3	X	
35AWW24_011323_ms B	13 JAN 2023	0815	-	SD		WG	3	X	
35AWW05_011323	13 JAN 2023	0910		N		WG	3	X	
35AWW05_011323_a	13 JAN 2023	0910		FD		WG	3	X	
LHSMW06_011323	13 JAN 2023	0955	-	N		WG	4	X	X
35AWW26_011323	13 JAN 2023	1040	-	N		WG	3	X	
35AWW26_011323_a	13 JAN 2023	1040	-	FD		WG	3	X	
35AWW15_011323	13 JAN 2023	1125	-	N		WG	3	X	
T12 Blank	13 JAN 2023		-	TB		W	2	X	

HS23010794

Bhate Environmental Associates, Inc.
LHAAP Site



COMMENTS:

STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Sample Delivery Details / Laboratory Receipt

Relinquished By (Signed) _____ Date 1/13/23 Time 12:30

Received by (signed) Date Time
1. 000014 1-14-74 0740
2. _____
3. _____

Delivered Directly to Lab:

Shipped

No.:

Method of Shipment:

Fed

E

Airbnb

Numbers:

Analytical Lab:

ALS 10450 Stancliff 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 (-a) Samples, 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 date. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = Q1, if sampled again on 10/10/99 = Q2, etc.)
- 4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WCL = 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 (Q1, Q2, 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

06476 1831 2.0'



 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5687	CUSTODY SEAL		Seal Broken By:
	Date: 1/13/23	Time: 1230	SM
	Name: Scott Beesinger		Date:
	Company: BHATS		01/14/23

46476 JAN 14 2023



46476

ORIGIN ID: SGRA (903) 930-6193
 SCOTT BEESINGER
 APTIM ENVIRONMENTAL & INFRASTRUCTURE
 1203-B EAST GRAND AVE
 FPO 202
 MARSHALL, TX 75670
 UNITED STATES US

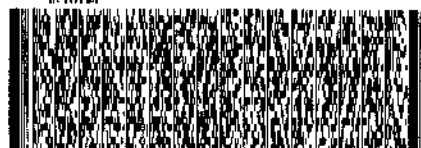
SHIP DATE: 26OCT22
 ACTWGT: 1.00 LB HAM
 CAD: 0221247/CAFE3616
 DIMS: 19x18x13 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5656

REF: LHAAP 67 - BO 88651 - DW

RMA: 000000

FedEx
Express

FedEx

TRK#
0221 5789 2000 0122SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 SGRA

77099
TX-US
IAH

4238674 13Jan2023 CGR 58102 102977006



HS23010794-MSVOA-SW8260

ALS WO# HS23010794





right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder
HS23010794

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-01				Collected		Received		Matrix	Basis	
35AWW24_011323				01/13/23 08:15		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 14:36	VOA6_426067	X011811
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 14:36	VOA6_426067	X011811
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 14:36	VOA6_426067	X011811
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 14:36	VOA6_426067	X011811
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-01				Collected		Received		Matrix	Basis	
35AWW24_011323				01/13/23 08:15		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 14:36	VOA6_426067	X011811
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 14:36	VOA6_426067	X011811
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 14:36	VOA6_426067	X011811
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 14:36	VOA6_426067	X011811





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-02				Collected		Received		Matrix	Basis	
35AWW05_011323				01/13/23 09:10		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 17:03	VOA6_426067	X011818
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 17:03	VOA6_426067	X011818
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 17:03	VOA6_426067	X011818
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 17:03	VOA6_426067	X011818
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-02				Collected		Received		Matrix	Basis	
35AWW05_011323				01/13/23 09:10		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 17:03	VOA6_426067	X011818
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 17:03	VOA6_426067	X011818
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 17:03	VOA6_426067	X011818
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:03	VOA6_426067	X011818





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-03				Collected		Received		Matrix	Basis	
35AWW05_011323_a				01/13/23 09:10		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 17:24	VOA6_426067	X011819
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 17:24	VOA6_426067	X011819
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 17:24	VOA6_426067	X011819
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 17:24	VOA6_426067	X011819
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-03				Collected		Received		Matrix	Basis	
35AWW05_011323_a				01/13/23 09:10		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 17:24	VOA6_426067	X011819
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 17:24	VOA6_426067	X011819
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 17:24	VOA6_426067	X011819
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:24	VOA6_426067	X011819





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-04				Collected	Received	Matrix	Basis			
LHSMW06_011323				01/13/23 09:55	01/14/23 08:50	Water	Wet			
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,1-Dichloroethane	ug/L	8.2		0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,1-Dichloroethene	ug/L	22		0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 17:45	VOA6_426067	X011820
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 17:45	VOA6_426067	X011820
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 17:45	VOA6_426067	X011820
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 17:45	VOA6_426067	X011820
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-04				Collected		Received		Matrix	Basis	
LHSMW06_011323				01/13/23 09:55		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 17:45	VOA6_426067	X011820
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
cis-1,2-Dichloroethene	ug/L	130		0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 17:45	VOA6_426067	X011820
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 17:45	VOA6_426067	X011820
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Tetrachloroethene	ug/L	4.3		0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
trans-1,2-Dichloroethene	ug/L	2.7		0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Trichloroethene	ug/L	24		0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820
Vinyl chloride	ug/L	7.6		0.20	1.0	1.0	1	01/18/23 17:45	VOA6_426067	X011820





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-05				Collected		Received		Matrix	Basis	
35AWW26_011323				01/13/23 10:40		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,1-Dichloroethane	ug/L	17		0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,1-Dichloroethene	ug/L	72		0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 18:06	VOA6_426067	X011821
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 18:06	VOA6_426067	X011821
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 18:06	VOA6_426067	X011821
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 18:06	VOA6_426067	X011821
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-05				Collected		Received		Matrix	Basis	
35AWW26_011323				01/13/23 10:40		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 18:06	VOA6_426067	X011821
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
cis-1,2-Dichloroethene	ug/L	1.5		0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 18:06	VOA6_426067	X011821
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 18:06	VOA6_426067	X011821
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821
Vinyl chloride	ug/L	12		0.20	1.0	1.0	1	01/18/23 18:06	VOA6_426067	X011821





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-06				Collected		Received		Matrix	Basis	
35AWW26_011323_a				01/13/23 10:40		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,1-Dichloroethane	ug/L	18		0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,1-Dichloroethene	ug/L	76		0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 18:27	VOA6_426067	X011822
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 18:27	VOA6_426067	X011822
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 18:27	VOA6_426067	X011822
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 18:27	VOA6_426067	X011822
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-06				Collected		Received		Matrix	Basis	
35AWW26_011323_a				01/13/23 10:40		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 18:27	VOA6_426067	X011822
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
cis-1,2-Dichloroethene	ug/L	1.4		0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 18:27	VOA6_426067	X011822
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 18:27	VOA6_426067	X011822
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822
Vinyl chloride	ug/L	12		0.20	1.0	1.0	1	01/18/23 18:27	VOA6_426067	X011822





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-07				Collected		Received		Matrix	Basis	
35AWW15_011323				01/13/23 11:25		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 18:48	VOA6_426067	X011823
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 18:48	VOA6_426067	X011823
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 18:48	VOA6_426067	X011823
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 18:48	VOA6_426067	X011823
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-07				Collected			Received		Matrix	Basis
35AWW15_011323				01/13/23 11:25			01/14/23 08:50		Water	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 18:48	VOA6_426067	X011823
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 18:48	VOA6_426067	X011823
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 18:48	VOA6_426067	X011823
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 18:48	VOA6_426067	X011823





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-08				Collected	Received	Matrix	Basis			
Trip Blank				01/13/23 00:00	01/14/23 08:50	Water	Wet			
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 13:54	VOA6_426067	X011809
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 13:54	VOA6_426067	X011809
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 13:54	VOA6_426067	X011809
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 13:54	VOA6_426067	X011809
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

HS23010794-08				Collected		Received		Matrix	Basis	
Trip Blank				01/13/23 00:00		01/14/23 08:50		Water	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 13:54	VOA6_426067	X011809
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 13:54	VOA6_426067	X011809
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 13:54	VOA6_426067	X011809
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:54	VOA6_426067	X011809





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

VBLKW-230118				Collected			Received			Matrix	Basis
VBLKW-230118				NA			NA			Aqueous	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 13:12	VOA6_426067	X011807	
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	01/18/23 13:12	VOA6_426067	X011807	
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	01/18/23 13:12	VOA6_426067	X011807	
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 13:12	VOA6_426067	X011807	
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807	





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

VBLKW-230118				Collected			Received		Matrix	Basis
VBLKW-230118				NA			NA		Aqueous	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	01/18/23 13:12	VOA6_426067	X011807
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	01/18/23 13:12	VOA6_426067	X011807
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	01/18/23 13:12	VOA6_426067	X011807
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	01/18/23 13:12	VOA6_426067	X011807





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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder
HS23010794

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles by EPA 8260

CCV	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.45	50	101	80-120	
4-Bromofluorobenzene	51.64	50	103	80-120	
Dibromofluoromethane	47.4	50	94.8	80-120	
Toluene-d8	49.29	50	98.6	80-120	

CCB	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.42	50	96.8	80-120	
4-Bromofluorobenzene	48.68	50	97.4	80-120	
Dibromofluoromethane	45.56	50	91.1	80-120	
Toluene-d8	53.84	50	108	80-120	

VLCSW-230118	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	54.17	50	108	81-118	
4-Bromofluorobenzene	49.94	50	99.9	85-114	
Dibromofluoromethane	48.9	50	97.8	80-119	
Toluene-d8	49.77	50	99.5	89-112	

VBLKW-230118	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.48	50	97.0	81-118	
4-Bromofluorobenzene	49.28	50	98.6	85-114	
Dibromofluoromethane	45.75	50	91.5	80-119	
Toluene-d8	52.8	50	106	89-112	

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





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles by EPA 8260

HS23010794-08	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47	50	94.4	81-118	
4-Bromofluorobenzene	48	50	96.2	85-114	
Dibromofluoromethane	46	50	91.3	80-119	
Toluene-d8	54	50	107	89-112	

HS23010794-01	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48	50	95.2	81-118	
4-Bromofluorobenzene	49	50	97.5	85-114	
Dibromofluoromethane	46	50	91.4	80-119	
Toluene-d8	54	50	107	89-112	

HS23010794-01MS	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	46.79	50	93.6	81-118	
4-Bromofluorobenzene	50.15	50	100	85-114	
Dibromofluoromethane	45.54	50	91.1	80-119	
Toluene-d8	52.54	50	105	89-112	

HS23010794-01MSD	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	46.98	50	94.0	81-118	
4-Bromofluorobenzene	49.74	50	99.5	85-114	
Dibromofluoromethane	45.41	50	90.8	80-119	
Toluene-d8	52.12	50	104	89-112	

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





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles by EPA 8260

HS23010794-02	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48	50	95.4	81-118	
4-Bromofluorobenzene	48	50	95.8	85-114	
Dibromofluoromethane	46	50	91.0	80-119	
Toluene-d8	53	50	106	89-112	

HS23010794-03	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47	50	94.3	81-118	
4-Bromofluorobenzene	48	50	96.9	85-114	
Dibromofluoromethane	46	50	91.0	80-119	
Toluene-d8	53	50	105	89-112	

HS23010794-04	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47	50	93.7	81-118	
4-Bromofluorobenzene	48	50	97.0	85-114	
Dibromofluoromethane	46	50	91.1	80-119	
Toluene-d8	53	50	106	89-112	

HS23010794-05	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48	50	95.7	81-118	
4-Bromofluorobenzene	48	50	95.3	85-114	
Dibromofluoromethane	46	50	91.2	80-119	
Toluene-d8	53	50	107	89-112	

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





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

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Volatiles by EPA 8260

HS23010794-06	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48	50	95.4	81-118	
4-Bromofluorobenzene	48	50	96.0	85-114	
Dibromofluoromethane	45	50	90.3	80-119	
Toluene-d8	53	50	106	89-112	

HS23010794-07	Analyzed 01/18/23		Conc Units µg/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48	50	95.9	81-118	
4-Bromofluorobenzene	48	50	96.1	85-114	
Dibromofluoromethane	46	50	91.1	80-119	
Toluene-d8	52	50	105	89-112	

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





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Form 3A

Matrix Spike/Spike Duplicate Recovery

Workorder
HS23010794

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

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Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Workorder

Project LHAAP-58

HS23010794

35AWW24_011323		HS23010794-01		HS23010794-01MS				HS23010794-01MSD						
Sample Matrix	Aqueous	Run Date	01/18/23	01/18/23				01/18/23						
Units	µg/L	Run Time	14:36	15:18				15:39						
		Data File	X011811.D	X011813.D				X011814.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	20.74	20.00	104		19.63	20.00	98		20	5.50	
1,1,1-Trichloroethane	74-131	1	0	21.71	20.00	109		20.45	20.00	102		20	5.90	
1,1,2,2-Tetrachloroethane	71-121	1	0	20.76	20.00	104		19.4	20.00	97		20	6.80	
1,1,2-Trichloroethane	80-119	1	0	20.13	20.00	101		19.5	20.00	98		20	3.20	
1,1-Dichloroethane	77-125	1	0	19.79	20.00	99		18.74	20.00	94		20	5.40	
1,1-Dichloroethene	71-131	1	0	25.05	20.00	125		21.15	20.00	106		20	16.9	
1,1-Dichloropropene	78-125	1	0	24.95	20.00	125		22.87	20.00	114		20	8.70	
1,2,3-Trichlorobenzene	69-129	1	0	23.45	20.00	117		21.66	20.00	108		20	7.90	
1,2,3-Trichloropropane	73-122	1	0	20.98	20.00	105		20.24	20.00	101		20	3.60	
1,2,4-Trichlorobenzene	69-130	1	0	23.93	20.00	120		22.54	20.00	113		20	6.00	
1,2,4-Trimethylbenzene	76-124	1	0	24.37	20.00	122		22.59	20.00	113		20	7.60	
1,2-Dibromo-3-	62-128	1	0	20.19	20.00	101		19.44	20.00	97		20	3.80	
1,2-Dibromoethane	77-121	1	0	20.49	20.00	102		20.11	20.00	101		20	1.90	
1,2-Dichlorobenzene	80-119	1	0	22.35	20.00	112		20.77	20.00	104		20	7.30	
1,2-Dichloroethane	73-128	1	0	20.91	20.00	105		20.5	20.00	102		20	2.00	
1,2-Dichloropropane	78-122	1	0	19.83	20.00	99		19.32	20.00	97		20	2.60	
1,3,5-Trimethylbenzene	75-124	1	0	25.65	20.00	128	*	23.65	20.00	118		20	8.10	
1,3-Dichlorobenzene	80-119	1	0	23.53	20.00	118		21.38	20.00	107		20	9.60	
1,3-Dichloropropane	80-119	1	0	20.69	20.00	103		19.7	20.00	99		20	4.90	
1,4-Dichlorobenzene	79-118	1	0	22.59	20.00	113		21.06	20.00	105		20	7.00	
2,2-Dichloropropane	60-139	1	0	21.64	20.00	108		20.39	20.00	102		20	6.00	
2-Butanone	56-143	1	0	34.38	40.00	86		34.34	40.00	86		20	0.100	
2-Chlorotoluene	79-122	1	0	23.90	20.00	120		22.04	20.00	110		20	8.10	
2-Hexanone	57-139	1	0	42.18	40.00	105		41.31	40.00	103		20	2.10	
4-Chlorotoluene	78-122	1	0	24.17	20.00	121		22.37	20.00	112		20	7.70	
4-Isopropyltoluene	77-127	1	0	28.20	20.00	141	*	25.57	20.00	128	*	20	9.80	
4-Methyl-2-pentanone	67-130	1	0	41.93	40.00	105		41.85	40.00	105		20	0.200	
Acetone	39-160	1	0	30.42	40.00	76		30.42	40.00	76		20	0	
Benzene	79-120	1	0	21.19	20.00	106		19.84	20.00	99		20	6.60	
Bromobenzene	80-120	1	0	21.37	20.00	107		20.12	20.00	101		20	6.00	
Bromochloromethane	78-123	1	0	17.31	20.00	87		16.7	20.00	84		20	3.60	
Bromodichloromethane	79-125	1	0	19.35	20.00	97		18.93	20.00	95		20	2.20	
Bromoform	66-130	1	0	19.25	20.00	96		18.51	20.00	93		20	3.90	
Bromomethane	53-141	1	0	20.41	20.00	102		19.8	20.00	99		20	3.00	

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits

OL - Outside Limits





Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

35AWW24_011323		HS23010794-01		HS23010794-01MS				HS23010794-01MSD						
Sample Matrix	Aqueous	Run Date	01/18/23	01/18/23				01/18/23						
Units	µg/L	Run Time	14:36	15:18				15:39						
		Data File	X011811.D	X011813.D				X011814.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	42.92	40.00	107		40.07	40.00	100		20	6.90	
Carbon tetrachloride	72-136	1	0	23.62	20.00	118		21.96	20.00	110		20	7.30	
Chlorobenzene	82-118	1	0	21.22	20.00	106		19.79	20.00	99		20	7.00	
Chloroethane	60-138	1	0	19.62	20.00	98		18.35	20.00	92		20	6.70	
Chloroform	79-124	1	0	19.17	20.00	96		18.25	20.00	91		20	4.90	
Chloromethane	50-139	1	0	20.63	20.00	103		18.98	20.00	95		20	8.30	
cis-1,2-Dichloroethene	78-123	1	0	18.98	20.00	95		17.81	20.00	89		20	6.40	
cis-1,3-Dichloropropene	75-124	1	0	19.85	20.00	99		19.1	20.00	96		20	3.80	
Dibromochloromethane	74-126	1	0	19.87	20.00	99		19.23	20.00	96		20	3.30	
Dibromomethane	79-123	1	0	19.04	20.00	95		18.73	20.00	94		20	1.60	
Dichlorodifluoromethane	32-152	1	0	19.61	20.00	98		17.82	20.00	89		20	9.60	
Ethylbenzene	79-121	1	0	23.49	20.00	117		22.15	20.00	111		20	5.90	
Hexachlorobutadiene	66-134	1	0	26.98	20.00	135	*	24.69	20.00	123		20	8.90	
Isopropylbenzene	72-131	1	0	25.46	20.00	127		23.64	20.00	118		20	7.40	
m,p-Xylene	80-121	1	0	46.04	40.00	115		43.36	40.00	108		20	6.00	
Methylene chloride	74-124	1	0	17.86	20.00	89		16.88	20.00	84		20	5.70	
n-Butylbenzene	75-128	1	0	26.78	20.00	134	*	25.01	20.00	125		20	6.80	
n-Propylbenzene	76-126	1	0	26.69	20.00	133	*	24.51	20.00	123		20	8.50	
Naphthalene	61-128	1	0	22.81	20.00	114		21.6	20.00	108		20	5.50	
o-Xylene	78-122	1	0	22.48	20.00	112		20.71	20.00	104		20	8.20	
sec-Butylbenzene	77-126	1	0	28.60	20.00	143	*	26.26	20.00	131	*	20	8.50	
Styrene	78-123	1	0	22.51	20.00	113		20.99	20.00	105		20	7.00	
tert-Butylbenzene	78-124	1	0	26.92	20.00	135	*	24.76	20.00	124		20	8.40	
Tetrachloroethene	74-129	1	0	25.05	20.00	125		23.15	20.00	116		20	7.90	
Toluene	80-121	1	0	22.31	20.00	112		20.83	20.00	104		20	6.90	
trans-1,2-Dichloroethene	75-124	1	0	20.03	20.00	100		18.86	20.00	94		20	6.00	
trans-1,3-Dichloropropene	73-127	1	0	19.80	20.00	99		19.43	20.00	97		20	1.90	
Trichloroethene	79-123	1	0	22.40	20.00	112		20.32	20.00	102		20	9.70	
Trichlorofluoromethane	65-141	1	0	24.37	20.00	122		22.28	20.00	111		20	8.90	
Vinyl chloride	58-137	1	0	22.19	20.00	111		20.15	20.00	101		20	9.70	

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits

OL - Outside Limits





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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder
HS23010794

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

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Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

VOA6_426067	QC ID		VLCSW-230118			
QC Matrix Aqueous	Units ug/L	Run Date Run Time	01/18/23 12:30			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,1,2-Tetrachloroethane	78-124	20	20.77	104		
1,1,1-Trichloroethane	74-131	20	21.01	105		
1,1,2,2-Tetrachloroethane	71-121	20	21.43	107		
1,1,2-Trichloroethane	80-119	20	21.15	106		
1,1-Dichloroethane	77-125	20	20.6	103		
1,1-Dichloroethene	71-131	20	20.26	101		
1,1-Dichloropropene	78-125	20	22.47	112		
1,2,3-Trichlorobenzene	69-129	20	25.36	127		
1,2,3-Trichloropropane	73-122	20	23.58	118		
1,2,4-Trichlorobenzene	69-130	20	25.83	129		
1,2,4-Trimethylbenzene	76-124	20	22.74	114		
1,2-Dibromo-3-chloropropane	62-128	20	21.78	109		
1,2-Dibromoethane	77-121	20	22.22	111		
1,2-Dichlorobenzene	80-119	20	21.68	108		
1,2-Dichloroethane	73-128	20	22.87	114		
1,2-Dichloroethane-d4	81-118	50	54.17	108		
1,2-Dichloropropane	78-122	20	20.92	105		
1,3,5-Trimethylbenzene	75-124	20	23.36	117		
1,3-Dichlorobenzene	80-119	20	22.35	112		
1,3-Dichloropropane	80-119	20	21.46	107		
1,4-Dichlorobenzene	79-118	20	21.88	109		
2,2-Dichloropropane	60-139	20	21.63	108		
2-Butanone	56-143	40	46.88	117		
2-Chlorotoluene	79-122	20	22.04	110		
2-Hexanone	57-139	40	50.84	127		
4-Bromofluorobenzene	85-114	50	49.94	100		
4-Chlorotoluene	78-122	20	22.69	113		
4-Isopropyltoluene	77-127	20	24.71	124		
4-Methyl-2-pentanone	67-130	40	47.52	119		
Acetone	39-160	40	52.35	131		
Benzene	79-120	20	20.98	105		
Bromobenzene	80-120	20	20.53	103		
Bromochloromethane	78-123	20	19.55	98		
Bromodichloromethane	79-125	20	20.35	102		
Bromoform	66-130	20	20.55	103		
Bromomethane	53-141	20	20.63	103		

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits





Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by EPA 8260

VOA6_426067	QC ID		VLCSW-230118			
QC Matrix Aqueous	Units ug/L	Run Date Run Time	01/18/23 12:30			
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
Carbon disulfide	64-133	40	41.25	103		
Carbon tetrachloride	72-136	20	20.27	101		
Chlorobenzene	82-118	20	20.44	102		
Chloroethane	60-138	20	19.12	96		
Chloroform	79-124	20	20.54	103		
Chloromethane	50-139	20	20.73	104		
cis-1,2-Dichloroethene	78-123	20	19.69	98		
cis-1,3-Dichloropropene	75-124	20	21.19	106		
Dibromochloromethane	74-126	20	20.88	104		
Dibromofluoromethane	80-119	50	48.9	98		
Dibromomethane	79-123	20	21.16	106		
Dichlorodifluoromethane	32-152	20	17.91	90		
Ethylbenzene	79-121	20	21.73	109		
Hexachlorobutadiene	66-134	20	26.81	134		
Isopropylbenzene	72-131	20	22.96	115		
m,p-Xylene	80-121	40	43.1	108		
Methylene chloride	74-124	20	20.62	103		
Naphthalene	61-128	20	25.56	128		
n-Butylbenzene	75-128	20	24.2	121		
n-Propylbenzene	76-126	20	23.44	117		
o-Xylene	78-122	20	21.28	106		
sec-Butylbenzene	77-126	20	24.35	122		
Styrene	78-123	20	21.81	109		
tert-Butylbenzene	78-124	20	23.28	116		
Tetrachloroethene	74-129	20	21.64	108		
Toluene	80-121	20	21.06	105		
Toluene-d8	89-112	50	49.77	100		
trans-1,2-Dichloroethene	75-124	20	20.02	100		
trans-1,3-Dichloropropene	73-127	20	21.62	108		
Trichloroethene	79-123	20	21.01	105		
Trichlorofluoromethane	65-141	20	20.91	105		
Vinyl chloride	58-137	20	19.66	98		

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits





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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder
HS23010794

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

Volatiles by by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230118	X011807.D	01/18/23 13:12	VOA6_426067
VLCSW-230118	LCS	VLCSW-230118	X011805.D	01/18/23 12:30	VOA6_426067
Trip Blank	SAMP	HS23010794-08	X011809.D	01/18/23 13:54	VOA6_426067
35AWW24_011323	SAMP	HS23010794-01	X011811.D	01/18/23 14:36	VOA6_426067
35AWW24_011323	MS	HS23010794-01MS	X011813.D	01/18/23 15:18	VOA6_426067
35AWW24_011323	MSD	HS23010794-01MSD	X011814.D	01/18/23 15:39	VOA6_426067
35AWW05_011323	SAMP	HS23010794-02	X011818.D	01/18/23 17:03	VOA6_426067
35AWW05_011323_a	SAMP	HS23010794-03	X011819.D	01/18/23 17:24	VOA6_426067
LHSMW06_011323	SAMP	HS23010794-04	X011820.D	01/18/23 17:45	VOA6_426067
35AWW26_011323	SAMP	HS23010794-05	X011821.D	01/18/23 18:06	VOA6_426067
35AWW26_011323_a	SAMP	HS23010794-06	X011822.D	01/18/23 18:27	VOA6_426067
35AWW15_011323	SAMP	HS23010794-07	X011823.D	01/18/23 18:48	VOA6_426067





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Form 5

Instrument Performance Check

Workorder

HS23010794

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_424237

Tune File X121601.D 12/16/22 11:17		This check applies to the following analyses			
m / e	Ion Abundance Criterion	%RA	Type	Date Analyzed	Lab File ID Sample ID
50	15.0 - 40.0% of mass 95	18.3 (18.4)	1	ICAL1 12/16/22 11:38	X121602 VSTD000.25
75	30.0 - 60.0% of mass 95	46.1 (46.1)	2	ICAL2 12/16/22 12:20	X121603 VSTD000.5
95	Base peak, 100% RA	100 (100)	3	ICAL3 12/16/22 12:41	X121604 VSTD001
96	5.0 - 9.0% of mass 95	7.2 (7.16)	4	ICAL4 12/16/22 13:02	X121605 VSTD002
173	Less than 2.0% of mass 174	0.8 (0.897) 1	5	ICAL5 12/16/22 13:23	X121606 VSTD005
174	50.0 - 120.0% of mass 95	89 (89)	6	ICAL6 12/16/22 13:43	X121607 VSTD020
175	4.0 - 9.0% of mass 174	7 (7.82) 1	7	ICAL7 12/16/22 14:04	X121608 VSTD050
176	93.0 - 101.0% of mass 174	87.4 (98.2) 1	8	ICAL8 12/16/22 14:25	X121609 VSTD100
177	5.0 - 9.0% of mass 176	5.8 (6.59) 2	9	ICAL9 12/16/22 14:46	X121610 VSTD150
Value is % of mass 1) 174 2) 176 RA - Relative Abundance			10	ICAL 12/16/22 15:07	X121611 VSTD200
			11	ICV 12/16/22 15:49	X121613 CCV





Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Tune File X011801.D		01/18/23 11:06
m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	20.2 (20.2)
75	30.0 - 60.0% of mass 95	50.2 (50.2)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6 (5.96)
173	Less than 2.0% of mass 174	0.5 (0.551) 1
174	50.0 - 120.0% of mass 95	89.3 (89.3)
175	4.0 - 9.0% of mass 174	7.3 (8.18) 1
176	93.0 - 101.0% of mass 174	84.9 (95) 1
177	5.0 - 9.0% of mass 176	6.3 (7.42) 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	01/18/23 11:48	X011803	CCV
2	CCB	01/18/23 12:09	X011804	CCB
3	LCS	01/18/23 12:30	X011805	VLCSW-230118
4	MBLK	01/18/23 13:12	X011807	VBLKW-230118
5	SAMP	01/18/23 13:54	X011809	Trip Blank
6	SAMP	01/18/23 14:36	X011811	35AWW24_011323
7	MS	01/18/23 15:18	X011813	HS23010794-01MS
8	MSD	01/18/23 15:39	X011814	HS23010794-01MSD
9	SAMP	01/18/23 17:03	X011818	35AWW05_011323
10	SAMP	01/18/23 17:24	X011819	35AWW05_011323_a
11	SAMP	01/18/23 17:45	X011820	LHSMW06_011323
12	SAMP	01/18/23 18:06	X011821	35AWW26_011323
13	SAMP	01/18/23 18:27	X011822	35AWW26_011323_a
14	SAMP	01/18/23 18:48	X011823	35AWW15_011323
15	CCV_EN	01/18/23 21:16	X011830	CCV-END





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Form 6

Initial Calibration Data

Workorder

HS23010794

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder
HS23010794

RunID

VOA6_424237

Volatiles Organics by Method 8260C

Calibration Files

ICAL Start Date 16-DEC-2022 1138
ICAL End Date 16-DEC-2022 1507

Level 1 ..voa6.i\X221216.b\X121602.D	Level 5 ..voa6.i\X221216.b\X121606.D
Level 2 ..voa6.i\X221216.b\X121603.D	Level 6 ..voa6.i\X221216.b\X121607.D
Level 3 ..voa6.i\X221216.b\X121604.D	Level 7 ..voa6.i\X221216.b\X121608.D
Level 4 ..voa6.i\X221216.b\X121605.D	Level 8 ..voa6.i\X221216.b\X121609.D
	Level 9 ..voa6.i\X221216.b\X121610.D
	Level 10 ..voa6.i\X221216.b\X121611.D

Compound	Level 1 0.250	Level 2 0.500	Level 3 1.00	Level 4 2.00	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R ²	Q
	Level 7 50.0	Level 8 100.0	Level 9 150.0	Level 10 200.0								
Dichlorodifluoromethane	NE 160392	1990 309019	2911 476130	6239 635808	15008	63382	LINR	0.00786	0.35247		0.99971	
Chloromethane	NE 192710	2466 388163	3670 621048	8057 865151	19623	72324	LINR	0.04423	0.47332		0.99747	
Propionitrile	NE 0.04851	0.06018 0.04917	0.05265 0.05178	0.04739 0.05178	0.05114	0.04656	AVRG		0.05102		7.91502	
Vinyl Chloride	NE 0.44103	0.52268 0.42953	0.40472 0.44923	0.39786 0.45909	0.42164	0.40520	AVRG		0.43678		8.81916	
Bromomethane	NE 139689	1893 284165	3293 470318	5996 NE	15112	52034	LINR	0.03529	0.34244		0.99519	
Chloroethane	NE 0.29447	0.35820 0.28714	0.27936 0.30494	0.31044 0.30410	0.31436	0.28309	AVRG		0.30401		7.80750	
Trichlorofluoromethane	NE 0.60756	0.71207 0.59817	0.54474 0.64605	0.57316 0.65074	0.59068	0.57785	AVRG		0.61122		8.28859	
Acrolein	NE 27445	440 60756	761 96139	1317 125874	2699	12279	LINR	0.05644	0.03519		0.99833	
Acetone	NE 124798	2669 243517	4787 373504	7041 514105	17632	50987	LINR	-0.00069	0.14025		0.99910	
1,1-Dichloroethene	NE 0.36912	0.44142 0.36226	0.35953 0.38517	0.37590 0.39076	0.37389	0.35725	AVRG		0.37948		6.80558	

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-58

Workorder
HS23010794

RunID
 VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 2 / 11

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 0.05462	0.05610 0.05559	0.05239 0.05946	0.05650 0.05952	0.05728	0.05469	AVRG		0.05624		4.10209	
Acetonitrile	NE 0.04430	0.04776 0.04552	0.04645 0.04791	0.04253 0.04736	0.04357	0.04417	AVRG		0.04551		4.32823	
Allyl Chloride	NE 0.81324	0.99118 0.83169	0.95202 0.86799	0.81682 0.86396	0.84304	0.82034	AVRG		0.86670		7.30464	
Iodomethane	NE 455792	2397 958603	3865 1554547	8702 2193685	26708	143457	QUAD	0.06641	2.01333	-0.08031	0.99956	
Acrylonitrile	NE 0.12970	0.12113 0.12956	0.12536 0.13857	0.12482 0.13997	0.12256	0.12666	AVRG		0.12870		5.15060	
Methylene Chloride	NE 0.49311	0.63666 0.46611	0.59459 0.48892	0.50364 0.47907	0.50885	0.51372	AVRG		0.52052		10.92514	
Methyl tert-butyl ether	NE 1.16844	1.26574 1.18584	1.39027 1.23813	1.27259 1.24075	1.24993	1.16729	AVRG		1.24211		5.52745	
Carbon Disulfide	NE 0.97542	1.07494 0.97088	1.00609 1.02392	0.95722 1.06178	0.94769	0.91773	AVRG		0.99285		5.32584	
trans-1,2-Dichloroethene	NE 0.41851	0.48064 0.41454	0.42427 0.43221	0.38965 0.43554	0.42173	0.40526	AVRG		0.42470		5.92187	
Vinyl Acetate	NE 1.07506	1.09845 1.07519	0.99054 1.16529	1.06368 1.16741	1.12321	1.05445	AVRG		1.09037		5.13969	
1,1-Dichloroethane	NE 0.72125	0.83949 0.70504	0.80145 0.74074	0.69997 0.74459	0.75023	0.70550	AVRG		0.74536		6.34771	
Chloroprene	NE 0.16145	0.19503 0.16116	0.18721 0.16823	0.17124 0.17481	0.15874	0.15219	AVRG		0.17001		8.17551	

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-58

Workorder
HS23010794

RunID
 VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 3 / 11

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 130179	1292 264221	2498 407629	5418 555896	11771	47830	LINR	0.06050	0.15346		0.99924	
Methacrylonitrile	NE 0.32328	0.44770 0.32565	0.36475 0.34081	0.34993 0.34351	0.34840	0.34235	AVRG		0.35404		10.52608	
2,2-Dichloropropane	NE 0.62063	0.70167 0.61027	0.65466 0.64008	0.60521 0.65162	0.61866	0.59289	AVRG		0.63286		5.25207	
cis-1,2-Dichloroethene	NE 0.49985	0.61803 0.48778	0.49622 0.51710	0.52999 0.51455	0.50446	0.48374	AVRG		0.51686		7.86616	
Chloroform	NE 0.81023	0.87547 0.78725	0.86252 0.84612	0.85352 0.84457	0.84666	0.79238	AVRG		0.83541		3.73708	
Bromochloromethane	NE 0.26364	0.32093 0.26287	0.29857 0.28290	0.28124 0.28282	0.29319	0.26077	AVRG		0.28299		6.91423	
1,1,1-Trichloroethane	NE 0.65703	0.76105 0.64156	0.65666 0.67604	0.60049 0.69720	0.64387	0.63152	AVRG		0.66283		6.90392	
1,1-Dichloropropene	NE 0.37084	0.35889 0.35979	0.34245 0.36734	0.33027 0.37324	0.34789	0.34406	AVRG		0.35497		4.12237	
1,2-Dichloroethane	NE 0.39909	0.45501 0.40154	0.40587 0.41082	0.39492 0.41030	0.41104	0.39842	AVRG		0.40967		4.39762	
Carbon Tetrachloride	NE 0.36348	0.40179 0.35355	0.45347 0.36349	0.40515 0.37429	0.35265	0.34370	AVRG		0.37906		9.25223	
Benzene	NE 1.17241	1.34410 1.15323	1.19304 1.17461	1.18322 1.18197	1.19608	1.14722	AVRG		1.19399		4.90945	
Trichloroethene	NE 0.33750	0.37562 0.33140	0.31723 0.33891	0.33885 0.34649	0.33109	0.33079	AVRG		0.33865		4.73809	

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-58

Workorder
HS23010794

RunID

VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 4 / 11

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 0.42913	0.53078 0.42602	0.45893 0.44706	0.43689 0.45009	0.42833	0.42563	AVRG		0.44810		7.41292	
Methyl Methacrylate	NE 0.32238	0.38746 0.32465	0.34921 0.34726	0.33881 0.35704	0.33548	0.30606	AVRG		0.34093		6.87301	
2-Chloroethylvinyl ether	NE 0.13057	0.13531 0.12541	0.11670 0.12799	0.12141 0.12973	0.12912	0.13108	AVRG		0.12748		4.37734	
1,2-Dichloropropane	NE 0.31044	0.35613 0.30521	0.33560 0.31542	0.29692 0.31856	0.31629	0.30391	AVRG		0.31761		5.71516	
2-Nitropropane	NE 0.73644	1.05598 0.73807	0.76159 0.78445	0.80915 0.80253	0.77468	0.75211	AVRG		0.80167		12.32619	
Dibromomethane	NE 0.20672	0.25085 0.20317	0.21183 0.21324	0.22317 0.21357	0.21081	0.20954	AVRG		0.21588		6.58330	
4-Methyl-2-Pentanone	NE 0.25814	0.28987 0.25156	0.26418 0.26114	0.28502 0.26166	0.26684	0.26684	AVRG		0.26725		4.64865	
cis-1,3-Dichloropropene	NE 0.52860	0.53732 0.53368	0.47650 0.55605	0.50179 0.56353	0.51804	0.52075	AVRG		0.52625		5.04185	
Ethyl Methacrylate	NE 0.20804	0.28138 0.22619	0.24077 0.24786	0.23910 0.26163	0.20135	0.21276	AVRG		0.23545		11.14205	
Toluene	NE 1.36202	1.60765 1.32088	1.37997 1.35198	1.37463 1.35870	1.36957	1.31273	AVRG		1.38201		6.34459	
trans-1,3-Dichloropropene	NE 0.44682	0.44236 0.44877	0.39493 0.47075	0.40065 0.48573	0.41433	0.42619	AVRG		0.43673		7.01005	
2-Hexanone	NE 0.17839	0.19991 0.17192	0.17409 0.18312	0.17972 0.18566	0.18386	0.17978	AVRG		0.18183		4.45920	

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-58

Workorder
HS23010794

RunID

VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 5 / 11

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 0.26479	0.32419 0.25654	0.26954 0.26825	0.29087 0.26649	0.28491	0.26973	AVRG		0.27726		7.37510	
1,3-Dichloropropane	NE 0.53007	0.62065 0.51166	0.55587 0.53587	0.54217 0.53590	0.54663	0.53274	AVRG		0.54573		5.60982	
Dibromochloromethane	NE 0.39906	0.43810 0.39075	0.38701 0.40792	0.39402 0.40793	0.38762	0.38903	AVRG		0.40016		4.08851	
Tetrachloroethene	NE 0.29836	0.33024 0.28012	0.25660 0.28506	0.28292 0.28889	0.26322	0.28810	AVRG		0.28594		7.36821	
1,2-Dibromoethane	NE 0.35151	0.36263 0.33998	0.33509 0.35512	0.32714 0.35096	0.35422	0.34322	AVRG		0.34665		3.22017	
1-Chlorohexane	NE 0.24556	0.26597 0.23682	0.22998 0.25047	0.21386 0.26558	0.22191	0.24457	AVRG		0.24163		7.44215	
Chlorobenzene	NE 0.95622	1.20054 0.92158	0.96715 0.96470	0.94773 0.97511	0.95913	0.93014	AVRG		0.98026		8.61127	
1,1,1,2-Tetrachloroethane	NE 0.36060	0.42477 0.35457	0.34549 0.36940	0.36191 0.37188	0.34596	0.34861	AVRG		0.36480		6.70616	
Ethylbenzene	NE 0.47797	0.47482 0.45902	0.43893 0.46986	0.45503 0.47447	0.45171	0.45394	AVRG		0.46175		2.86128	
m,p-Xylenes	NE 0.60205	0.69860 0.58346	0.55710 0.60071	0.56286 0.61493	0.56012	0.57743	AVRG		0.59525		7.35638	
o-Xylene	NE 0.59049	0.68372 0.57562	0.51381 0.60058	0.56977 0.61516	0.56849	0.56994	AVRG		0.58751		7.79066	
Styrene	NE 1.03116	1.02806 1.01266	0.79991 1.07651	0.88633 1.09594	0.95404	0.97800	AVRG		0.98473		9.52837	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder
HS23010794

RunID

VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 6 / 11

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 0.27805	0.31195 0.27584	0.25221 0.29222	0.26817 0.29278	0.25683	0.26696	AVRG		0.27722		6.87336	
Isopropylbenzene	NE 1.41077	1.35706 1.36357	1.16805 1.42773	1.25967 1.45784	1.30607	1.32939	AVRG		1.34224		6.69875	
1,1,2,2-Tetrachloroethane	NE 0.74007	0.91828 0.71754	0.84470 0.75363	0.83187 0.73962	0.83648	0.79018	AVRG		0.79693		8.24435	
1,2,3-Trichloropropane	NE 0.53505	0.58047 0.52761	0.56626 0.60583	0.53238 0.53897	0.58048	0.54015	AVRG		0.55636		4.97536	
trans-1,4-Dichloro-2-butene	NE 0.10800	0.12274 0.10845	0.09213 0.11623	0.10381 0.11751	0.10162	0.10094	AVRG		0.10794		8.88299	
n-Propylbenzene	NE 2.90611	3.20938 2.78733	2.13608 2.90643	2.47845 2.92515	2.73904	2.83806	AVRG		2.76956		11.03336	
Bromobenzene	NE 0.80056	0.90477 0.78064	0.79060 0.82147	0.83045 0.81857	0.81066	0.82521	AVRG		0.82033		4.35370	
1,3,5-Trimethylbenzene	NE 2.12398	2.06484 2.07652	1.68256 2.18148	1.97796 2.20122	2.03460	2.07048	AVRG		2.04596		7.47801	
2-Chlorotoluene	NE 1.79455	1.93144 1.71779	1.77508 1.79669	1.90257 1.78644	1.85141	1.80074	AVRG		1.81741		3.65582	
4-Chlorotoluene	NE 2.09570	2.19766 2.05624	1.72811 2.19099	1.99610 2.20989	2.10678	2.06499	AVRG		2.07183		7.13984	
tert-Butylbenzene	NE 1.74647	1.83685 1.66742	1.33195 1.77236	1.56610 1.78580	1.66625	1.69957	AVRG		1.67475		9.03914	
1,2,4-Trimethylbenzene	NE 2.18278	2.44261 2.12445	1.84882 2.25368	2.01055 2.24326	2.12502	2.14371	AVRG		2.15277		7.66012	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder
HS23010794

RunID
 VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 7 / 11

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 2.38144	2.28219 2.30322	1.76441 2.43114	1.95855 2.46321	2.17705	2.29365	AVRG		2.22832		10.32115	
p-Isopropyltoluene	NE 2.16946	2.11113 2.07989	1.42476 2.19272	1.76888 2.20460	1.95504	2.06459	AVRG		1.99679		12.72950	
1,3-Dichlorobenzene	NE 1.39279	1.34465 1.34586	1.21323 1.42324	1.32549 1.42237	1.40186	1.38449	AVRG		1.36155		4.82043	
1,4-Dichlorobenzene	NE 1.45712	1.63128 1.44362	1.40441 1.52301	1.45614 1.52190	1.47766	1.45673	AVRG		1.48576		4.44368	
Benzyl Chloride	NE 472387	3642 1009234	4632 1650494	12783 2286488	35254	163895	LINR	0.05387	0.82700		0.99832	
n-Butylbenzene	NE 696355	5149 1425779	8459 2293126	19853 3216534	54831	248190	LINR	0.03551	1.99525		0.99890	
1,2-Dichlorobenzene	NE 1.39065	1.58241 1.36532	1.22790 1.44207	1.34058 1.43128	1.42827	1.41177	AVRG		1.40225		6.73504	
1,2-Dibromo-3-Chloropropane	NE 48660	441 94321	778 149691	1619 205063	4911	18635	LINR	0.00184	0.12764		0.99948	
1,2,4-Trichlorobenzene	NE 0.95146	0.91627 0.90293	0.65608 0.94400	0.83350 0.95022	0.89445	0.91558	AVRG		0.88494		10.53488	
Hexachlorobutadiene	NE 155390	1477 299042	1928 466452	3970 654615	13454	55912	QUAD	-0.00107	2.58308	-0.07816	0.99966	
Naphthalene	NE 2.14094	2.01970 2.06230	1.60683 2.15450	1.85985 2.12714	2.04153	2.10842	AVRG		2.01347		8.78393	
1,2,3-Trichlorobenzene	NE 0.85880	1.02696 0.83163	0.68341 0.85478	0.79977 0.84995	0.84958	0.87304	AVRG		0.84755		10.42886	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder
HS23010794

RunID
 VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 8 / 11

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 0.37280	0.44748 0.34980	0.34909 0.38488	0.40657 0.39192	0.39985	0.40902	AVRG		0.39016		7.92750	
Methyl Acrylate	NE 0.33014	0.38247 0.33914	0.34243 0.35741	0.29817 0.35867	0.33173	0.31494	AVRG		0.33946		7.36740	
n-Butanol	NE 54418	622 124057	1171 210842	2004 297334	4891	15012	QUAD	0.80435	158	-58.97368	0.99813	*
Ethyl Acrylate	NE 420886	NE 862071	NE 1358300	9825 1836030	26414	172044	LINR	0.05859	1.02468		0.99901	*
Cyclohexanone	NE 0.01934	0.07093 0.01945	0.03374 0.01993	0.02556 0.01966	0.01884	0.01912	AVRG		0.02740		62.21369	*
1,4-Dioxane	0.00463 0.00443	0.00501 0.00442	0.00455 0.00480	0.00386 0.00497	0.00466	0.00438	AVRG		0.00457		7.29408	
n-Hexane	NE 0.39852	0.41368 0.36338	0.26016 0.39788	0.32309 0.40267	0.32437	0.35631	AVRG		0.36001		13.97418	
Freon TF	NE 0.37622	0.40111 0.36030	0.37263 0.38547	0.33005 0.39624	0.32940	0.35185	AVRG		0.36703		7.16337	
Methyl Acetate	NE 0.21071	0.27499 0.21615	0.23617 0.22455	0.22728 0.22667	0.19900	0.20937	AVRG		0.22499		9.73149	
Methylcyclohexane	NE 0.60749	0.69525 0.62521	0.49917 0.65111	0.58500 0.65095	0.56389	0.63030	AVRG		0.61204		9.36456	
Isopropyl alcohol	NE 0.01716	0.02240 0.01767	0.01652 0.01919	0.01536 0.01934	0.01833	0.01677	AVRG		0.01808		11.41496	
Amyl alcohol	NE 0.00433	NE 0.00498	NE 0.00582	NE 0.00605	0.00196	0.00315	AVRG		0.00438		36.19033	*

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Initial Calibration Data

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Project LHAAP-58

Workorder
HS23010794

RunID
 VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 9 / 11

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 0.01993	0.03347 0.01817	0.01301 0.01989	0.01615 0.02013	0.01622	0.01782	AVRG		0.01942		29.60962	*
4-Methyl-2-pentanol	NE 0.04191	0.13977 0.04448	0.06768 0.05120	0.05740 0.05444	0.04467	0.04137	AVRG		0.06032		51.38639	*
Tert-butyl alcohol	NE 0.03307	0.04145 0.03257	0.03359 0.03586	0.03291 0.03628	0.03387	0.03199	AVRG		0.03462		8.48705	
Diethyl ether	NE 0.30968	0.40393 0.31674	0.33122 0.33062	0.34807 0.33029	0.33548	0.30080	AVRG		0.33409		8.92652	
1,3-Butadiene	NE 0.33288	0.38854 0.32994	0.38107 0.34951	0.31405 0.35836	0.31693	0.31715	AVRG		0.34316		8.15203	
Cyclohexane	NE 237699	2803 432198	4003 682728	7375 943314	19859	84355	LINR	0.02522	0.51703		0.99847	
Tetrahydrofuran	NE 58181	900 109518	1361 162133	2867 219995	7598	28221	LINR	-0.06333	0.06025		0.99942	
alpha-Methylstyrene	NE 1.13399	1.35155 1.10993	0.85865 1.16502	1.02359 1.17184	1.06165	1.09458	AVRG		1.10787		11.89593	
Diisopropyl ether	NE 1.21127	1.41201 1.25239	1.35074 1.32366	1.30436 1.33324	1.25459	1.23114	AVRG		1.29704		5.00179	
Dichlorofluoromethane	NE 0.05734	NE 0.05842	NE 0.06234	NE 0.06214	0.06484	0.06089	AVRG		0.06099		4.51209	*
Propylene oxide	NE 0.03071	NE 0.03174	0.05613 0.03407	0.03062 0.03228	0.03687	0.02961	AVRG		0.03525		24.79698	*
3-Methyl-1-butanol	NE 0.00489	NE 0.00483	NE 0.00601	NE 0.00612	0.00211	0.00438	AVRG		0.00472		30.80128	*

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Initial Calibration Data

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Project LHAAP-58

Workorder
HS23010794

RunID
 VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 10 / 11

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
Butyl acrylate	NE 0.63698	0.73114 0.67566	0.58907 0.72950	0.57945 0.74630	0.58578	0.60437	AVRG		0.65314		10.52624	
1,2,3-Trimethylbenzene	NE 2.21302	2.76749 2.29498	2.61167 2.36627	2.52848 2.30685	2.25428	2.32678	AVRG		2.40776		7.74526	
Ethanol	NE 29714	458 56794	787 87890	1703 117751	3072	12594	LINR	-0.06594	0.00325		0.99956	
1-Propanol	NE 0.00727	0.00862 0.00784	0.00964 0.00802	0.00852 0.00816	0.00825	0.00721	AVRG		0.00817		9.04495	
tert-Butyl formate	NE 0.24908	NE 0.25521	NE 0.29218	0.25634 0.29283	0.33766	0.24706	AVRG		0.27577		12.14219	*
3,3-Dimethyl-1-butanol	NE 0.02235	NE 0.02388	NE 0.02628	NE 0.02679	0.01912	0.02169	AVRG		0.02335		12.46791	*
tert-Amyl methyl ether	NE 1.32775	2.53777 1.35994	1.82297 1.44272	1.67155 1.43312	1.55575	1.35887	AVRG		1.61227		23.79383	*
tert-Butyl ethyl ether	NE 1.27589	1.81984 1.30743	1.44501 1.37993	1.35004 1.39745	1.35223	1.28319	AVRG		1.40122		11.86386	
tert-Amyl alcohol	NE 0.02491	0.03129 0.02552	0.02457 0.02922	0.02972 0.02928	0.03377	0.02471	AVRG		0.02811		11.82574	
Epichlorohydrin	NE 58515	926 126478	1242 183469	2483 257397	5941	23842	LINR	0.04999	0.02268		0.99921	
Isoprene	NE 0.13550	0.20890 0.13652	0.10782 0.14294	0.12769 0.14612	0.14811	0.13210	AVRG		0.14286		19.27805	*
n-Amyl acetate	NE 0.52035	NE 0.54240	NE 0.59479	NE 0.61078	NE	0.53118	AVRG		0.55990		7.20069	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder
HS23010794

RunID

VOA6_424237

Volatiles Organics by Method 8260C

ICAL Start Date 16-DEC-2022 1138

ICAL End Date 16-DEC-2022 1507

ICAL Summary Page 11 / 11

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
Isopropyl acetate	NE 0.72227	1.34716 0.73275	0.78367 0.76494	0.79130 0.76466	0.77391	0.74796	AVRG		0.82540		23.86221	*
n-Butyl acetate	NE 0.19856	0.47947 0.20815	0.28533 0.21762	0.15799 0.22438	0.22627	0.22783	AVRG		0.24729		37.68114	*
Acetaldehyde	NE 67188	NE 107798	3384 161053	5661 205547	6161	32393	LINR	-0.46573	0.02837		0.99553	
Methyl Amyl Ketone	NE 0.62641	1.24254 0.65992	0.68451 0.69377	0.63815 0.71197	0.57607	0.60726	AVRG		0.71562		28.26825	*
Dimethyl Disulfide	NE 0.67210	0.79855 0.68414	0.63899 0.70500	0.61608 0.69777	0.61366	0.66406	AVRG		0.67671		8.32695	
1,2-Dichloroethylene (total)	NE 0.45918	0.54933 0.45116	0.46024 0.47466	0.45982 0.47504	0.46309	0.44450	AVRG		0.47078		6.59168	
Xylenes (total)	NE 0.56357	0.65089 0.56191	0.51351 0.58028	0.53491 0.60523	0.53725	0.54549	AVRG		0.56589		7.37687	
Dibromofluoromethane	NE 211939	2321 438954	4769 652724	9050 856027	24255	90108	LINR	-0.00333	0.47851		0.99972	
1,2-Dichloroethane-d4	NE 222293	2849 455890	5559 686218	9783 919752	24938	92990	LINR	0.00543	0.50950		0.99982	
Toluene-d8	NE 1.18347	1.47608 1.20166	1.31472 1.16429	1.20749 1.10711	1.24798	1.21701	AVRG		1.23554		8.62469	
4-Bromofluorobenzene	NE 292753	3870 615584	7790 936681	13631 1277239	32501	116878	LINR	0.00128	0.46242		0.99992	

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Form 6I

Initial Calibration Verification (ICV)

Workorder

HS23010794

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_424237

Volatiles Organics by Method 8260C

Instrument ID voa6.i ICAL Date 16-DEC-2022

Lab File ID X121613.D ICAL Time 1404

?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	48.61	97.24	80-120	
1,1,1-Trichloroeth	50.00	50.16	100.33	80-120	
1,1,2,2-Tetrachlor	50.00	46.75	93.50	80-120	
Freon TF	50.00	52.90	105.81	80-120	
Methyl Acetate	50.00	48.17	96.35	80-120	
Cyclohexane	50.00	51.73	103.47	80-120	
Methylcyclohexane	50.00	50.89	101.79	80-120	
Carbon Disulfide	100.00	98.50	98.50	80-120	
2-Hexanone	100.00	96.73	96.74	80-120	
1,1,2-Trichloroeth	50.00	47.91	95.83	80-120	
1,1-Dichloroethane	50.00	48.19	96.39	80-120	
1,1-Dichloroethene	50.00	49.34	98.68	80-120	
1,1-Dichloropropen	50.00	52.11	104.24	80-120	
1,2,3-Trichloroben	50.00	52.79	105.58	80-120	
1,2,3-Trichloropro	50.00	48.07	96.16	80-120	
1,2,4-Trichloroben	50.00	54.66	109.32	80-120	
1,2,4-Trimethylben	50.00	51.32	102.65	80-120	
1,2-Dibromo-3-Chlo	50.00	50.53	101.07	80-120	
1,2-Dibromoethane	50.00	50.24	100.49	80-120	
Acrolein	100.00	95.06	95.07	80-120	
Acrylonitrile	100.00	101.42	101.43	80-120	
1,2-Dichlorobenzen	50.00	49.52	99.05	80-120	
1,2-Dichloroethane	50.00	49.52	99.05	80-120	
1,2-Dichloropropan	50.00	49.60	99.22	80-120	
1,3,5-Trimethylben	50.00	52.30	104.61	80-120	
1,3-Dichlorobenzen	50.00	51.21	102.43	80-120	
1,3-Dichloropropan	50.00	47.82	95.66	80-120	
1,4-Dichlorobenzen	50.00	49.71	99.44	80-120	
1-Chlorohexane	50.00	51.98	103.97	80-120	
2,2-Dichloropropan	50.00	50.98	101.98	80-120	
2-Butanone	100.00	97.74	97.74	80-120	
2-Chlorotoluene	50.00	49.94	99.89	80-120	
4-Chlorotoluene	50.00	51.25	102.51	80-120	
p-Isopropyltoluene	50.00	54.75	109.51	80-120	





Initial Calibration Verification (ICV)

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Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_424237

Volatiles Organics by Method 8260C

Instrument ID voa6.i ICAL Date 16-DEC-2022

Lab File ID X121613.D ICAL Time 1404

?VAL? ?VAL? Conc Units ug/L

Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
4-Methyl-2-Pentano	100.00	94.03	94.03	80-120	
Acetone	100.00	101.89	101.90	80-120	
Benzene	50.00	50.29	100.58	80-120	
Bromobenzene	50.00	49.62	99.25	80-120	
Bromochloromethane	50.00	47.25	94.51	80-120	
Bromodichlorometha	50.00	49.22	98.45	80-120	
Bromoform	50.00	49.33	98.66	80-120	
Bromomethane	50.00	50.78	101.58	80-120	
Carbon Tetrachlori	50.00	49.06	98.12	80-120	
Chlorobenzene	50.00	48.34	96.68	80-120	
Chloroethane	50.00	48.32	96.64	80-120	
Chloroform	50.00	48.45	96.91	80-120	
Chloromethane	50.00	50.17	100.35	80-120	
cis-1,2-Dichloroet	50.00	48.25	96.51	80-120	
cis-1,3-Dichloropr	50.00	52.11	104.22	80-120	
Dibromochlorometha	50.00	49.50	99.02	80-120	
Dibromomethane	50.00	49.19	98.38	80-120	
Dichlorodifluorome	50.00	52.19	104.38	80-120	
Ethylbenzene	50.00	51.31	102.63	80-120	
Hexachlorobutadien	50.00	57.73	115.48	80-120	
Isopropylbenzene	50.00	52.09	104.19	80-120	
m,p-Xylenes	100.00	100.17	100.17	80-120	
Methyl tert-butyl	50.00	48.12	96.25	80-120	
Methylene Chloride	50.00	47.56	95.14	80-120	
n-Butylbenzene	50.00	50.66	101.33	80-120	
n-Propylbenzene	50.00	52.67	105.35	80-120	
Naphthalene	50.00	52.67	105.35	80-120	
o-Xylene	50.00	49.75	99.51	80-120	
sec-Butylbenzene	50.00	54.16	108.34	80-120	
Styrene	50.00	52.09	104.20	80-120	
tert-Butylbenzene	50.00	52.83	105.67	80-120	
Tetrachloroethene	50.00	50.99	101.99	80-120	
Toluene	50.00	49.20	98.42	80-120	
trans-1,2-Dichloro	50.00	49.99	99.98	80-120	





Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_424237

Volatiles Organics by Method 8260C

Instrument ID voa6.i ICAL Date 16-DEC-2022

Lab File ID X121613.D ICAL Time 1404

?VAL? ?VAL? Conc Units ug/L

Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
trans-1,3-Dichloro	50.00	52.50	105.01	80-120	
Trichloroethene	50.00	51.28	102.56	80-120	
Trichlorofluoromet	50.00	51.00	102.02	80-120	
Vinyl Chloride	50.00	50.57	101.15	80-120	
1,2-Dichloroethyle	100.00	98.24	98.25	80-120	
Xylenes (total)	150.00	149.92	99.95	80-120	
1,4-Dioxane	1000.00	1021.76	102.18	80-120	
Dibromofluorometha	50.00	50.91	101.84	71-125	
1,2-Dichloroethane	50.00	50.36	100.73	70-125	
Toluene-d8	50.00	49.50	99.00	75-125	
4-Bromofluorobenze	50.00	49.98	99.97	72-125	





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Form 7

Continuing Calibration Verification (CCV)

Workorder

HS23010794

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 18-JAN-2023 1148
 Lab File ID X011803.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
 Analysis Type WATER ICAL Times 1138 1507
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00480	0.00480	0.001	-4.92538	20.0	Averaged	
1,3-Butadiene	0.34316	0.29894	0.29894	0.100	12.88553	20.0	Averaged	
Methacrylonitrile	0.35404	0.35660	0.35660	0.100	-0.72384	20.0	Averaged	
Isobutyl Alcohol	0.05624	0.05996	0.05996	0.005	-6.62239	20.0	Averaged	
Acetonitrile	0.04551	0.04427	0.04427	0.005	2.72659	20.0	Averaged	
Allyl Chloride	0.86670	0.83614	0.83614	0.100	3.52527	20.0	Averaged	
Propionitrile	0.05102	0.05016	0.05016	0.010	1.68292	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11481	0.11481	0.050	-6.36658	20.0	Averaged	
Acetaldehyde	200	220	0.03452	0.001	-10.04947	20.0	Linear	
Chloroprene	0.17001	0.14418	0.14418	0.100	15.18926	20.0	Averaged	
Ethyl Acetate	0.39016	0.42518	0.42518	0.100	-8.97493	20.0	Averaged	
Methyl Methacrylate	0.34093	0.35725	0.35725	0.100	-4.78673	20.0	Averaged	
Ethyl Methacrylate	0.23545	0.24506	0.24506	0.100	-4.07973	20.0	Averaged	
Diethyl ether	0.33409	0.30173	0.30173	0.100	9.68726	20.0	Averaged	
Tetrahydrofuran	100	106	0.06585	0.001	-6.13202	20.0	Linear	
Diisopropyl ether	1.29704	1.23079	1.23079	0.100	5.10796	20.0	Averaged	
1,2,3-Trimethylbenzene	2.40776	2.09859	2.09859	0.100	12.84037	20.0	Averaged	
Dichlorodifluoromethane	50.0	47.02438	0.32873	0.100	5.95124	20.0	Linear	
Chloromethane	50.0	44.87103	0.40383	0.100	10.25793	20.0	Linear	
Vinyl Chloride	0.43678	0.39270	0.39270	0.100	10.09199	20.0	Averaged	
Bromomethane	50.0	42.48284	0.27888	0.100	15.03433	20.0	Linear	
Chloroethane	0.30401	0.26139	0.26139	0.100	14.01927	20.0	Averaged	
Trichlorofluoromethane	0.61122	0.54486	0.54486	0.100	10.85786	20.0	Averaged	
Acrolein	100	81.48062	0.02768	0.010	18.51938	20.0	Linear	
Acetone	100	108	0.15171	0.100	-8.13585	20.0	Linear	
1,1-Dichloroethene	0.37948	0.33579	0.33579	0.100	11.51351	20.0	Averaged	
Iodomethane	100	88.48844	0.43835	0.100	11.51156	20.0	Quadratic	
Acrylonitrile	0.12870	0.13484	0.13484	0.050	-4.77102	20.0	Averaged	
Methylene Chloride	0.52052	0.44873	0.44873	0.100	13.79125	20.0	Averaged	
Methyl tert-butyl ether	1.24211	1.18617	1.18617	0.100	4.50332	20.0	Averaged	
Carbon Disulfide	0.99285	0.87941	0.87941	0.100	11.42621	20.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.37716	0.37716	0.100	11.19422	20.0	Averaged	
Vinyl Acetate	1.09037	1.18464	1.18464	0.010	-8.64646	20.0	Averaged	
1,1-Dichloroethane	0.74536	0.67028	0.67028	0.200	10.07282	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 18-JAN-2023 1148
 Lab File ID X011803.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
 Analysis Type WATER ICAL Times 1138 1507
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
2-Butanone	100	107	0.15911	0.100	-6.70833	20.0	Linear	
2,2-Dichloropropane	0.63286	0.58500	0.58500	0.100	7.56246	20.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.45315	0.45315	0.100	12.32586	20.0	Averaged	
Chloroform	0.83541	0.76218	0.76218	0.200	8.76638	20.0	Averaged	
Bromochloromethane	0.28299	0.24554	0.24554	0.100	13.23567	20.0	Averaged	
Dibromofluoromethane	50.0	47.39555	0.45517	0.100	5.20890	20.0	Linear	
1,1,1-Trichloroethane	0.66283	0.59244	0.59244	0.100	10.61969	20.0	Averaged	
1,1-Dichloropropene	0.35497	0.33669	0.33669	0.100	5.15079	20.0	Averaged	
1,2-Dichloroethane	0.40967	0.42054	0.42054	0.100	-2.65310	20.0	Averaged	
Carbon Tetrachloride	0.37906	0.32582	0.32582	0.100	14.04691	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	50.45276	0.51135	0.100	-0.90553	20.0	Linear	
Benzene	1.19399	1.11537	1.11537	0.500	6.58458	20.0	Averaged	
Trichloroethene	0.33865	0.30647	0.30647	0.200	9.50429	20.0	Averaged	
Bromodichloromethane	0.44810	0.41843	0.41843	0.200	6.61966	20.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.16394	0.16394	0.001	-28.59817	20.0	Averaged	<-
1,2-Dichloropropane	0.31761	0.30002	0.30002	0.100	5.53643	20.0	Averaged	
Dibromomethane	0.21588	0.20259	0.20259	0.100	6.15540	20.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.29046	0.29046	0.100	-8.68639	20.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.51845	0.51845	0.200	1.48322	20.0	Averaged	
Toluene-d8	1.23554	1.21800	1.21800	0.100	1.41955	20.0	Averaged	
Toluene	1.38201	1.27564	1.27564	0.400	7.69740	20.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.45224	0.45224	0.100	-3.55274	20.0	Averaged	
2-Hexanone	0.18183	0.20811	0.20811	0.100	-14.45460	20.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.26182	0.26182	0.100	5.56580	20.0	Averaged	
1,3-Dichloropropane	0.54573	0.52813	0.52813	0.100	3.22543	20.0	Averaged	
Dibromochloromethane	0.40016	0.38469	0.38469	0.100	3.86685	20.0	Averaged	
Tetrachloroethene	0.28594	0.25106	0.25106	0.200	12.20108	20.0	Averaged	
1,2-Dibromoethane	0.34665	0.34569	0.34569	0.100	0.27695	20.0	Averaged	
1-Chlorohexane	0.24163	0.22265	0.22265	0.100	7.85785	20.0	Averaged	
Chlorobenzene	0.98026	0.89506	0.89506	0.500	8.69116	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.34310	0.34310	0.100	5.94747	20.0	Averaged	
Ethylbenzene	0.46175	0.43497	0.43497	0.100	5.79985	20.0	Averaged	
m,p-Xylenes	0.59525	0.55658	0.55658	0.100	6.49645	20.0	Averaged	
o-Xylene	0.58751	0.54879	0.54879	0.300	6.59068	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 18-JAN-2023 1148
 Lab File ID X011803.D ICAL Date(s) 16-DEC-2022 16-DEC-2022
 Analysis Type WATER ICAL Times 1138 1507
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Styrene	0.98473	0.98537	0.98537	0.300	-0.06485	20.0	Averaged	
Bromoform	0.27722	0.27924	0.27924	0.100	-0.72810	20.0	Averaged	
Isopropylbenzene	1.34224	1.28292	1.28292	0.100	4.41924	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.75949	0.75949	0.300	4.69724	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.64185	0.47701	0.100	-3.28370	20.0	Linear	
1,2,3-Trichloropropane	0.55636	0.56047	0.56047	0.100	-0.73990	20.0	Averaged	
n-Propylbenzene	2.76956	2.57707	2.57707	0.100	6.95017	20.0	Averaged	
Bromobenzene	0.82033	0.75260	0.75260	0.100	8.25572	20.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	1.94957	1.94957	0.100	4.71134	20.0	Averaged	
2-Chlorotoluene	1.81741	1.69282	1.69282	0.100	6.85565	20.0	Averaged	
4-Chlorotoluene	2.07183	1.99560	1.99560	0.100	3.67950	20.0	Averaged	
tert-Butylbenzene	1.67475	1.52808	1.52808	0.100	8.75795	20.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.03314	2.03314	0.100	5.55691	20.0	Averaged	
sec-Butylbenzene	2.22832	2.06534	2.06534	0.100	7.31375	20.0	Averaged	
p-Isopropyltoluene	1.99679	1.91374	1.91374	0.100	4.15893	20.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.30089	1.30089	0.600	4.45531	20.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.40929	1.40929	0.400	5.14702	20.0	Averaged	
n-Butylbenzene	50.0	44.07477	1.68795	0.500	11.85047	20.0	Linear	
1,2-Dichlorobenzene	1.40225	1.32756	1.32756	0.400	5.32673	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	51.09587	0.13021	0.040	-2.19175	20.0	Linear	
1,2,4-Trichlorobenzene	0.88494	0.88943	0.88943	0.100	-0.50637	20.0	Averaged	
Hexachlorobutadiene	50.0	41.46842	0.32468	0.100	17.06316	20.0	Quadratic	
Naphthalene	2.01347	2.15246	2.15246	0.200	-6.90310	20.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.83411	0.83411	0.010	1.58589	20.0	Averaged	
1,2-Dichloroethylene (total)	0.47078	0.41516	0.41516	0.200	11.81542	20.0	Averaged	
Xylenes (total)	0.56589	0.53321	0.53321	0.100	5.77632	20.0	Averaged	
Cyclohexane	50.0	41.62793	0.41742	0.100	16.74414	20.0	Linear	
Freon TF	0.36703	0.30044	0.30044	0.100	18.14352	20.0	Averaged	
Methylcyclohexane	0.61204	0.62474	0.62474	0.100	-2.07432	20.0	Averaged	
Methyl Acetate	0.22499	0.22491	0.22491	0.100	0.03617	20.0	Averaged	
Tert-butyl alcohol	0.03462	0.03872	0.03872	0.005	-11.82466	20.0	Averaged	
Isopropyl alcohol	0.01808	0.02114	0.02114	0.005	-16.93504	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 18-JAN-2023 2116
 Lab File ID X011830.DICAL Date(s) 16-DEC-2022 16-DEC-2022
 Analysis Type WATER ICAL Times 1138 1507
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00457	0.00510	0.00510	0.001	-11.63691	50.0	Averaged	
1,3-Butadiene	0.34316	0.30582	0.30582	0.100	10.88044	50.0	Averaged	
Methacrylonitrile	0.35404	0.36823	0.36823	0.100	-4.00770	50.0	Averaged	
Isobutyl Alcohol	0.05624	0.06221	0.06221	0.005	-10.61808	50.0	Averaged	
Acetonitrile	0.04551	0.04212	0.04212	0.005	7.44263	50.0	Averaged	
Allyl Chloride	0.86670	0.81254	0.81254	0.100	6.24822	50.0	Averaged	
Propionitrile	0.05102	0.05373	0.05373	0.010	-5.31296	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.10794	0.11403	0.11403	0.050	-5.64360	50.0	Averaged	
Acetaldehyde	200	327	0.04974	0.001	-63.69743	50.0	Linear	
Chloroprene	0.17001	0.14931	0.14931	0.100	12.17218	50.0	Averaged	
Ethyl Acetate	0.39016	0.43204	0.43204	0.100	-10.73390	50.0	Averaged	
Methyl Methacrylate	0.34093	0.37887	0.37887	0.100	-11.13053	50.0	Averaged	
Ethyl Methacrylate	0.23545	0.26206	0.26206	0.100	-11.30114	50.0	Averaged	
Diethyl ether	0.33409	0.30537	0.30537	0.100	8.59565	50.0	Averaged	
Tetrahydrofuran	100	106	0.06605	0.001	-6.45667	50.0	Linear	
Diisopropyl ether	1.29704	1.22219	1.22219	0.100	5.77139	50.0	Averaged	
1,2,3-Trimethylbenzene	2.40776	2.26215	2.26215	0.100	6.04741	50.0	Averaged	
Dichlorodifluoromethane	50.0	40.71949	0.28428	0.100	18.56102	50.0	Linear	
Chloromethane	50.0	43.73856	0.39311	0.100	12.52289	50.0	Linear	
Vinyl Chloride	0.43678	0.40687	0.40687	0.100	6.84804	50.0	Averaged	
Bromomethane	50.0	47.04556	0.31013	0.100	5.90888	50.0	Linear	
Chloroethane	0.30401	0.27507	0.27507	0.100	9.51850	50.0	Averaged	
Trichlorofluoromethane	0.61122	0.60469	0.60469	0.100	1.06966	50.0	Averaged	
Acrolein	100	73.54233	0.02489	0.010	26.45767	50.0	Linear	
Acetone	100	110	0.15440	0.100	-10.05371	50.0	Linear	
1,1-Dichloroethene	0.37948	0.36935	0.36935	0.100	2.66777	50.0	Averaged	
Iodomethane	100	90.89758	0.45123	0.100	9.10242	50.0	Quadratic	
Acrylonitrile	0.12870	0.14037	0.14037	0.050	-9.06626	50.0	Averaged	
Methylene Chloride	0.52052	0.48085	0.48085	0.100	7.62108	50.0	Averaged	
Methyl tert-butyl ether	1.24211	1.19556	1.19556	0.100	3.74713	50.0	Averaged	
Carbon Disulfide	0.99285	0.94208	0.94208	0.100	5.11387	50.0	Averaged	
trans-1,2-Dichloroethene	0.42470	0.40977	0.40977	0.100	3.51538	50.0	Averaged	
Vinyl Acetate	1.09037	0.99969	0.99969	0.010	8.31618	50.0	Averaged	
1,1-Dichloroethane	0.74536	0.72026	0.72026	0.200	3.36818	50.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 18-JAN-2023 2116
 Lab File ID X011830.DICAL Date(s) 16-DEC-2022 16-DEC-2022
 Analysis Type WATER ICAL Times 1138 1507
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
2-Butanone	100	108	0.16136	0.100	-8.17576	50.0	Linear	
2,2-Dichloropropane	0.63286	0.54869	0.54869	0.100	13.30005	50.0	Averaged	
cis-1,2-Dichloroethene	0.51686	0.48907	0.48907	0.100	5.37616	50.0	Averaged	
Chloroform	0.83541	0.81945	0.81945	0.200	1.91081	50.0	Averaged	
Bromochloromethane	0.28299	0.26438	0.26438	0.100	6.57529	50.0	Averaged	
Dibromofluoromethane	50.0	49.38614	0.47422	0.100	1.22772	50.0	Linear	
1,1,1-Trichloroethane	0.66283	0.65788	0.65788	0.100	0.74680	50.0	Averaged	
1,1-Dichloropropene	0.35497	0.36908	0.36908	0.100	-3.97479	50.0	Averaged	
1,2-Dichloroethane	0.40967	0.42830	0.42830	0.100	-4.54743	50.0	Averaged	
Carbon Tetrachloride	0.37906	0.36177	0.36177	0.100	4.56137	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	52.15021	0.52865	0.100	-4.30042	50.0	Linear	
Benzene	1.19399	1.18155	1.18155	0.500	1.04144	50.0	Averaged	
Trichloroethene	0.33865	0.34808	0.34808	0.200	-2.78212	50.0	Averaged	
Bromodichloromethane	0.44810	0.42897	0.42897	0.200	4.26882	50.0	Averaged	
2-Chloroethylvinyl ether	0.12748	0.14839	0.14839	0.001	-16.40446	50.0	Averaged	
1,2-Dichloropropane	0.31761	0.31301	0.31301	0.100	1.44898	50.0	Averaged	
Dibromomethane	0.21588	0.21153	0.21153	0.100	2.01313	50.0	Averaged	
4-Methyl-2-Pentanone	0.26725	0.29278	0.29278	0.100	-9.55390	50.0	Averaged	
cis-1,3-Dichloropropene	0.52625	0.51756	0.51756	0.200	1.65068	50.0	Averaged	
Toluene-d8	1.23554	1.22409	1.22409	0.100	0.92608	50.0	Averaged	
Toluene	1.38201	1.36267	1.36267	0.400	1.39940	50.0	Averaged	
trans-1,3-Dichloropropene	0.43673	0.44581	0.44581	0.100	-2.07971	50.0	Averaged	
2-Hexanone	0.18183	0.20524	0.20524	0.100	-12.87789	50.0	Averaged	
1,1,2-Trichloroethane	0.27726	0.26816	0.26816	0.100	3.28039	50.0	Averaged	
1,3-Dichloropropane	0.54573	0.54091	0.54091	0.100	0.88215	50.0	Averaged	
Dibromochloromethane	0.40016	0.39168	0.39168	0.100	2.11943	50.0	Averaged	
Tetrachloroethene	0.28594	0.28308	0.28308	0.200	1.00195	50.0	Averaged	
1,2-Dibromoethane	0.34665	0.35331	0.35331	0.100	-1.92168	50.0	Averaged	
1-Chlorohexane	0.24163	0.24998	0.24998	0.100	-3.45430	50.0	Averaged	
Chlorobenzene	0.98026	0.94316	0.94316	0.500	3.78417	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36480	0.35957	0.35957	0.100	1.43354	50.0	Averaged	
Ethylbenzene	0.46175	0.46685	0.46685	0.100	-1.10432	50.0	Averaged	
m,p-Xylenes	0.59525	0.60422	0.60422	0.100	-1.50683	50.0	Averaged	
o-Xylene	0.58751	0.58933	0.58933	0.300	-0.31014	50.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 18-JAN-2023 2116
 Lab File ID X011830.DICAL Date(s) 16-DEC-2022 16-DEC-2022
 Analysis Type WATER ICAL Times 1138 1507
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Styrene	0.98473	1.04179	1.04179	0.300	-5.79431	50.0	Averaged	
Bromoform	0.27722	0.27900	0.27900	0.100	-0.64095	50.0	Averaged	
Isopropylbenzene	1.34224	1.43457	1.43457	0.100	-6.87911	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.79693	0.73852	0.73852	0.300	7.32960	50.0	Averaged	
4-Bromofluorobenzene	50.0	50.97472	0.47084	0.100	-1.94944	50.0	Linear	
1,2,3-Trichloropropane	0.55636	0.56792	0.56792	0.100	-2.07909	50.0	Averaged	
n-Propylbenzene	2.76956	2.87488	2.87488	0.100	-3.80269	50.0	Averaged	
Bromobenzene	0.82033	0.78238	0.78238	0.100	4.62516	50.0	Averaged	
1,3,5-Trimethylbenzene	2.04596	2.15787	2.15787	0.100	-5.46988	50.0	Averaged	
2-Chlorotoluene	1.81741	1.80778	1.80778	0.100	0.53005	50.0	Averaged	
4-Chlorotoluene	2.07183	2.14113	2.14113	0.100	-3.34476	50.0	Averaged	
tert-Butylbenzene	1.67475	1.77010	1.77010	0.100	-5.69312	50.0	Averaged	
1,2,4-Trimethylbenzene	2.15277	2.23466	2.23466	0.100	-3.80430	50.0	Averaged	
sec-Butylbenzene	2.22832	2.41576	2.41576	0.100	-8.41173	50.0	Averaged	
p-Isopropyltoluene	1.99679	2.19488	2.19488	0.100	-9.92071	50.0	Averaged	
1,3-Dichlorobenzene	1.36155	1.37489	1.37489	0.600	-0.97990	50.0	Averaged	
1,4-Dichlorobenzene	1.48576	1.47595	1.47595	0.400	0.66053	50.0	Averaged	
n-Butylbenzene	50.0	50.05695	1.92667	0.500	-0.11390	50.0	Linear	
1,2-Dichlorobenzene	1.40225	1.40566	1.40566	0.400	-0.24318	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	50.99448	0.12995	0.040	-1.98896	50.0	Linear	
1,2,4-Trichlorobenzene	0.88494	0.95696	0.95696	0.100	-8.13810	50.0	Averaged	
Hexachlorobutadiene	50.0	47.19157	0.36994	0.100	5.61687	50.0	Quadratic	
Naphthalene	2.01347	2.19622	2.19622	0.200	-9.07660	50.0	Averaged	
1,2,3-Trichlorobenzene	0.84755	0.89220	0.89220	0.010	-5.26813	50.0	Averaged	
1,2-Dichloroethylene (total)	0.47078	0.44942	0.44942	0.200	4.53683	50.0	Averaged	
Xylenes (total)	0.56589	0.57695	0.57695	0.100	-1.95354	50.0	Averaged	
Cyclohexane	50.0	50.56614	0.50985	0.100	-1.13229	50.0	Linear	
Freon TF	0.36703	0.35173	0.35173	0.100	4.16781	50.0	Averaged	
Methylcyclohexane	0.61204	0.62061	0.62061	0.100	-1.40067	50.0	Averaged	
Methyl Acetate	0.22499	0.24949	0.24949	0.100	-10.89098	50.0	Averaged	
Tert-butyl alcohol	0.03462	0.03881	0.03881	0.005	-12.08551	50.0	Averaged	
Isopropyl alcohol	0.01808	0.02101	0.02101	0.005	-16.19093	50.0	Averaged	





right solutions.
right partner.

Form 8

Internal Standard Area and RT Summary

Workorder

HS23010794

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RunID

VOA6_426067

		IS1			IS2			IS3			IS4			
Sample ID	File ID	Area	RT		Area	RT		Area	RT		Area	RT		
12-HOUR STD (CCV)	X011803	489424	# 4.18	#	723703	# 4.97	#	696562	# 7.67	#	413903	# 9.66	#	
CCB	X011804	547114	4.17		768486	4.97		671866	7.67		341638	9.66		
VLCSW-230118	X011805	473146	4.18		702531	4.97		668637	7.67		382174	9.66		
VBLKW-230118	X011807	535465	4.18		749587	4.97		673748	7.67		355069	9.66		
HS23010794-08	X011809	542248	4.18		756845	4.96		662386	7.67		337966	9.66		
HS23010794-01	X011811	532028	4.18		747215	4.97		653649	7.67		336371	9.66		
HS23010794-01MS	X011813	531106	4.18		747876	4.96		677318	7.67		370137	9.66		
HS23010794-01MSD	X011814	554704	4.18		787144	4.96		721168	7.67		400970	9.66		
HS23010794-02	X011818	527890	4.18		734432	4.96		657531	7.67		339629	9.66		
HS23010794-03	X011819	535889	4.18		756864	4.97		676673	7.67		349387	9.66		
HS23010794-04	X011820	529844	4.18		742060	4.96		659323	7.67		338537	9.66		
HS23010794-05	X011821	537674	4.18		753622	4.97		661783	7.67		330570	9.66		
HS23010794-06	X011822	533917	4.18		749765	4.97		662481	7.67		336747	9.66		
HS23010794-07	X011823	546501	4.18		772309	4.96		692960	7.67		363414	9.66		
CCV-END	X011830	447898	4.18		681617	4.97		656244	7.67		387986	9.66		

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





Analysis Run Log

Volatiles by EPA 8260

Workorder
HS23010794

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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MSVOA06 -Logbook

Batch: 52417
 Date: 12-16-2022
 Method: 8260
 Comments:

Analyst: Presenta Cabascango
 Reviewer:
 Laboratory: Houston

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	12-16-2022 11:17 am	1.00	50 mL	50 mL	X121601.D	Liquid	Y	NA
2	VSTD000.25	ICAL1	12-16-2022 11:38 am	1.00	50 mL	50 mL	X121602.D	Liquid	Y	NA
3	VSTD000.5	ICAL2	12-16-2022 12:20 pm	1.00	50 mL	50 mL	X121603.D	Liquid	Y	NA
4	VSTD001	ICAL3	12-16-2022 12:41 pm	1.00	50 mL	50 mL	X121604.D	Liquid	Y	NA
5	VSTD002	ICAL4	12-16-2022 01:02 pm	1.00	50 mL	50 mL	X121605.D	Liquid	Y	NA
6	VSTD005	ICAL5	12-16-2022 01:23 pm	1.00	50 mL	50 mL	X121606.D	Liquid	Y	NA
7	VSTD020	ICAL6	12-16-2022 01:43 pm	1.00	50 mL	50 mL	X121607.D	Liquid	Y	NA
8	VSTD050	ICAL7	12-16-2022 02:04 pm	1.00	50 mL	50 mL	X121608.D	Liquid	Y	NA
9	VSTD100	ICAL8	12-16-2022 02:25 pm	1.00	50 mL	50 mL	X121609.D	Liquid	Y	NA
10	VSTD150	ICAL9	12-16-2022 02:46 pm	1.00	50 mL	50 mL	X121610.D	Liquid	Y	NA
11	VSTD200	ICAL	12-16-2022 03:07 pm	1.00	50 mL	50 mL	X121611.D	Liquid	Y	NA
12	BLANK	SAMP	12-16-2022 03:28 pm	1.00	50 mL	50 mL	X121612.D	Liquid	Y	NA
13	CCV	CCV	12-16-2022 03:49 pm	1.00	50 mL	50 mL	X121613.D	Liquid	Y	NA
14	BLANK	SAMP	12-16-2022 04:10 pm	1.00	50 mL	50 mL	X121614.D	Liquid	Y	NA
15	CCB	SAMP	12-16-2022 04:31 pm	1.00	50 mL	50 mL	X121615.D	Liquid	Y	NA
16	VLCSW-221216	LCS	12-16-2022 04:52 pm	1.00	50 mL	50 mL	X121616.D	Liquid	Y	NA
17	BLANK	SAMP	12-16-2022 05:13 pm	1.00	50 mL	50 mL	X121617.D	Liquid	Y	NA
18	VBLKW-221216	MBLK	12-16-2022 05:34 pm	1.00	50 mL	50 mL	X121618.D	Liquid	Y	NA
19	HS22120648-05	SAMP	12-16-2022 05:55 pm	1.00	50 mL	50 mL	X121619.D	Liquid	Y	NA
20	HS22120648-09	SAMP	12-16-2022 06:16 pm	1.00	50 mL	50 mL	X121620.D	Liquid	Y	NA
21	HS22120648-01	SAMP	12-16-2022 06:37 pm	1.00	50 mL	50 mL	X121621.D	Liquid	Y	NA
22	HS22120648-02	SAMP	12-16-2022 06:58 pm	1.00	50 mL	50 mL	X121622.D	Liquid	Y	NA
23	HS22120648-03	SAMP	12-16-2022 07:19 pm	1.00	50 mL	50 mL	X121623.D	Liquid	Y	NA
24	HS22120648-04	SAMP	12-16-2022 07:40 pm	1.00	50 mL	50 mL	X121624.D	Liquid	Y	NA
25	HS22120648-06	SAMP	12-16-2022 08:01 pm	1.00	50 mL	50 mL	X121625.D	Liquid	Y	NA
26	HS22120648-07	SAMP	12-16-2022 08:22 pm	1.00	50 mL	50 mL	X121626.D	Liquid	Y	NA
27	HS22120648-08	SAMP	12-16-2022 08:43 pm	1.00	50 mL	50 mL	X121627.D	Liquid	Y	NA
28	HS22120648-06MS	MS	12-16-2022 09:04 pm	1.00	50 mL	50 mL	X121628.D	Liquid	Y	NA
29	HS22120648-06MSD	MSD	12-16-2022 09:25 pm	1.00	50 mL	50 mL	X121629.D	Liquid	Y	NA
30	CCV-END	CCV	12-16-2022 09:46 pm	1.00	50 mL	50 mL	X121630.D	Liquid	Y	NA
31	BFB	TUNE	12-16-2022 10:07 pm	1.00	50 mL	50 mL	Y121601.D	Liquid	Y	NA
32	CCV	CCV	12-16-2022 10:28 pm	1.00	50 mL	50 mL	Y121602a.D	Liquid	Y	NA
33	CCV	CCV	12-16-2022 10:49 pm	1.00	50 mL	50 mL	Y121603.D	Liquid	Y	NA
34	CCB	SAMP	12-16-2022 11:10 pm	1.00	50 mL	50 mL	Y121604.D	Liquid	Y	NA
35	VLCSW-221215	LCS	12-16-2022 11:31 pm	1.00	50 mL	50 mL	Y121605.D	Liquid	Y	NA
36	BLANK	SAMP	12-16-2022 11:52 pm	1.00	50 mL	50 mL	Y121606.D	Liquid	Y	NA
37	VBLKW-221215	MBLK	12-17-2022 12:13 am	1.00	50 mL	50 mL	Y121607.D	Liquid	Y	NA
38	HS22120974-13	SAMP	12-17-2022 12:34 am	1.00	50 mL	50 mL	Y121608.D	Liquid	Y	NA
39	HS22120974-01	SAMP	12-17-2022 12:55 am	1.00	50 mL	50 mL	Y121609.D	Liquid	Y	NA
40	HS22120974-01MS	MS	12-17-2022 01:16 am	1.00	50 mL	50 mL	Y121610.D	Liquid	Y	NA
41	HS22120974-01MSD	MSD	12-17-2022 01:38 am	1.00	50 mL	50 mL	Y121611.D	Liquid	Y	NA



MSVOA06 -Logbook

#	<u>Samp ID</u>	<u>Type</u>	<u>Analyzed</u>	<u>DF</u>	<u>Init Wt/Vol</u>	<u>Final Vol</u>	<u>File ID</u>	<u>Matrix</u>	<u>Status</u>	<u>pH</u>
42	BLANK	SAMP	12-17-2022 01:59 am	1.00	50 mL	50 mL	Y121612.D	Liquid	Y	NA
43	HS22120974-02	SAMP	12-17-2022 02:20 am	1.00	50 mL	50 mL	Y121613.D	Liquid	Y	NA
44	HS22120974-03	SAMP	12-17-2022 02:41 am	1.00	50 mL	50 mL	Y121614.D	Liquid	Y	NA
45	HS22120974-04	SAMP	12-17-2022 03:02 am	1.00	50 mL	50 mL	Y121615.D	Liquid	Y	NA
46	HS22120974-05	SAMP	12-17-2022 03:23 am	1.00	50 mL	50 mL	Y121616.D	Liquid	Y	NA
47	HS22120974-06	SAMP	12-17-2022 03:44 am	1.00	50 mL	50 mL	Y121617.D	Liquid	Y	NA
48	HS22120974-07	SAMP	12-17-2022 04:05 am	1.00	50 mL	50 mL	Y121618.D	Liquid	Y	NA
49	HS22120974-08	SAMP	12-17-2022 04:26 am	1.00	50 mL	50 mL	Y121619.D	Liquid	Y	NA
50	HS22120974-09	SAMP	12-17-2022 04:47 am	1.00	50 mL	50 mL	Y121620.D	Liquid	Y	NA
51	HS22120974-10	SAMP	12-17-2022 05:08 am	1.00	50 mL	50 mL	Y121621.D	Liquid	Y	NA
52	HS22120974-11	SAMP	12-17-2022 05:29 am	1.00	50 mL	50 mL	Y121622.D	Liquid	Y	NA
53	HS22120974-12	SAMP	12-17-2022 05:50 am	1.00	50 mL	50 mL	Y121623.D	Liquid	Y	NA
54	HS22120974-14	SAMP	12-17-2022 06:11 am	1.00	50 mL	50 mL	Y121624.D	Liquid	Y	NA
55	HS22120974-15	SAMP	12-17-2022 06:32 am	1.00	50 mL	50 mL	Y121625.D	Liquid	Y	NA
56	HS22120574-15	SAMP	12-17-2022 06:53 am	5.00	10 mL	50 mL	Y121626.D	Liquid	Y	NA
57	HS22120574-17	SAMP	12-17-2022 07:14 am	5.00	10 mL	50 mL	Y121627.D	Liquid	Y	NA
58	HS22120770-07	SAMP	12-17-2022 07:36 am	10.00	5 mL	50 mL	Y121628.D	Liquid	Y	NA
59	HS22120770-07	SAMP	12-17-2022 07:57 am	100.00	500 µL	50 mL	Y121629.D	Liquid	Y	NA
60	HS22120770-10	SAMP	12-17-2022 08:18 am	5.00	10 mL	50 mL	Y121630.D	Liquid	Y	NA
61	BLANK	SAMP	12-17-2022 08:39 am	1.00	50 mL	50 mL	Y121631.D	Liquid	Y	NA





Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23010794

RUNID

VOA6_426067

Volatiles by EPA 8260

Run ID	VOA6_426067	Start Date	01/18/23	EndDate	01/18/23	Matrix	Aqueous
Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF		
CCV	CCV	CCV	X011803.D	01/18/23 11:48	1		
CCB	CCB	CCB	X011804.D	01/18/23 12:09	1		
VLCSW-230118	LCS	VLCSW-230118	X011805.D	01/18/23 12:30	1		
VBLKW-230118	MBLK	VBLKW-230118	X011807.D	01/18/23 13:12	1		
Trip Blank	SAMP	HS23010794-08	X011809.D	01/18/23 13:54	1		
35AWW24_011323	SAMP	HS23010794-01	X011811.D	01/18/23 14:36	1		
35AWW24_011323	MS	HS23010794-01MS	X011813.D	01/18/23 15:18	1		
35AWW24_011323	MSD	HS23010794-01MSD	X011814.D	01/18/23 15:39	1		
35AWW05_011323	SAMP	HS23010794-02	X011818.D	01/18/23 17:03	1		
35AWW05_011323_a	SAMP	HS23010794-03	X011819.D	01/18/23 17:24	1		
LHSMW06_011323	SAMP	HS23010794-04	X011820.D	01/18/23 17:45	1		
35AWW26_011323	SAMP	HS23010794-05	X011821.D	01/18/23 18:06	1		
35AWW26_011323_a	SAMP	HS23010794-06	X011822.D	01/18/23 18:27	1		
35AWW15_011323	SAMP	HS23010794-07	X011823.D	01/18/23 18:48	1		





Raw Data VOA6 424237

Volatiles by EPA 8260

Workorder
HS23010794

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

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Data File: \\NAHSTWS005\Target\chem\voa6.i\x221216.b\X121601.D Page 1
 Report Date: 16-Dec-2022 12:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\X121601.D
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 16-DEC-2022 11:17
 Operator : PC Inst ID: voa6.i
 Smp Info : BFB;BFB;3;;BFB
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\bfb.m
 Meth Date : 01-Dec-2022 12:59 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		FINAL			
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET	RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb				CAS #: 460-00-4					
8.691	8.889	(0.000)	95	72328			0.00-	100.00	100.00
8.691	8.889	(0.000)	50	13272			15.00-	40.00	18.35
8.691	8.889	(0.000)	75	33368			30.00-	60.00	46.13
8.691	8.889	(0.000)	96	5178			5.00-	9.00	7.16
8.691	8.889	(0.000)	173	577			0.00-	2.00	0.90
8.691	8.889	(0.000)	174	64360			50.00-	0.00	88.98
8.691	8.889	(0.000)	175	5033			5.00-	9.00	7.82
8.691	8.889	(0.000)	176	63184			95.00-	101.00	98.17
8.691	8.889	(0.000)	177	4164			5.00-	9.00	6.59



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.35
75	30.00 - 60.00% of mass 95	46.13
96	5.00 - 9.00% of mass 95	7.16
173	Less than 2.00% of mass 174	0.80 (0.90)
174	Greater than 50.00% of mass 95	88.98
175	5.00 - 9.00% of mass 174	6.96 (7.82)
176	95.00 - 101.00% of mass 174	87.36 (98.17)
177	5.00 - 9.00% of mass 176	5.76 (6.59)

Data File: X121601.D
 Spectrum: Scan 2160 (8.68)
 Location of Maximum: 95.00
 Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	686	63.00	2521	93.00	2705	136.90	215
37.00	3051	64.10	316	94.00	9587	140.90	735
38.00	2957	66.90	155	95.00	72328	141.70	91
39.00	1321	67.90	6274	96.00	5178	142.80	683
39.90	1146	69.00	6990	96.90	213	145.60	119
42.00	114	69.90	604	103.00	58	148.00	107
42.90	301	71.80	385	104.00	313	149.80	105
44.00	1509	72.90	2986	104.70	125	153.80	54
45.00	716	74.00	11163	105.10	132	154.80	169
46.80	723	75.00	33368	105.90	451	156.80	155
48.00	503	76.00	3228	110.60	54	160.80	71
49.00	3278	76.90	395	113.00	74	171.60	83
50.00	13272	77.80	187	114.80	159	172.80	577
51.00	3648	78.90	2224	115.80	342	173.90	64360
52.10	365	79.80	718	116.90	386	174.90	5033
54.00	52	80.90	2158	117.90	425	175.90	63184
54.90	278	81.80	420	118.80	260	176.90	4164
56.00	1513	83.00	51	127.90	191	178.00	133
57.00	1763	86.90	2878	128.90	172		
59.90	665	87.80	2342	129.80	237		
61.00	3173	91.00	516	130.80	156		
62.00	3572	92.00	2006	134.70	222		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D

Page 1

Date : 16-DEC-2022 11:17

Client ID: BFB

Instrument: voa6.i

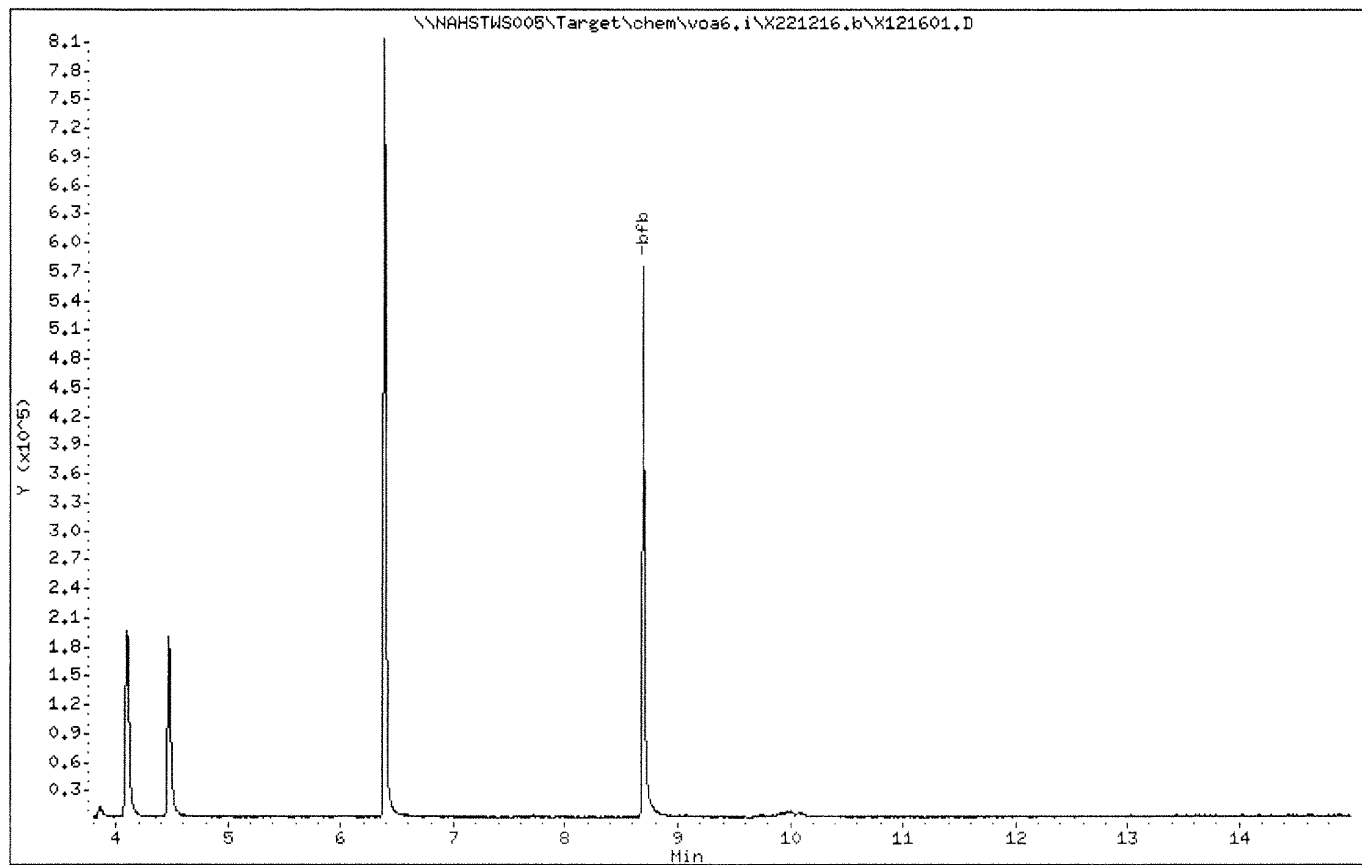
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D

Page 2

Date : 16-DEC-2022 11:17

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

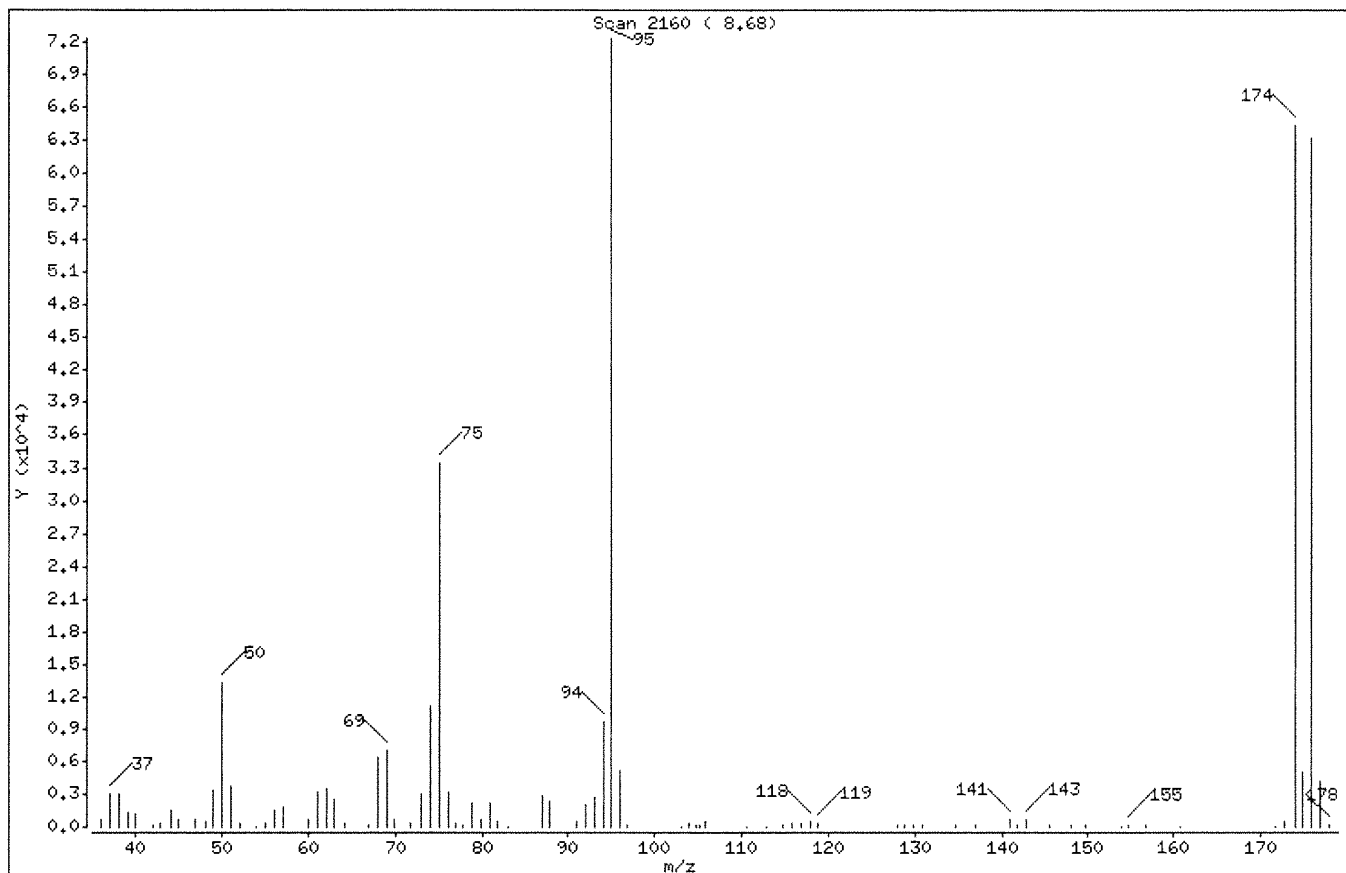
Volume Injected (uL): 2.0

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	18.35
75	30.00 - 60.00% of mass 95	46.13
96	5.00 - 9.00% of mass 95	7.16
173	Less than 2.00% of mass 174	0.80 (0.90)
174	Greater than 50.00% of mass 95	88.98
175	5.00 - 9.00% of mass 174	6.96 (7.82)
176	95.00 - 101.00% of mass 174	87.36 (98.17)
177	5.00 - 9.00% of mass 176	5.76 (6.59)



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121601.D

Page 3

Date : 16-DEC-2022 11:17

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: X121601.D

Spectrum: Scan 2160 (8.68)

Location of Maximum: 95.00

Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y

35.90	686	63.00	2521	93.00	2705	136.90	215
37.00	3051	64.10	316	94.00	9587	140.90	735
38.00	2957	66.90	155	95.00	72328	141.70	91
39.00	1321	67.90	6274	96.00	5178	142.80	683
39.90	1146	69.00	6990	96.90	213	145.60	119

42.00	114	69.90	604	103.00	58	148.00	107
42.90	301	71.80	385	104.00	313	149.80	105
44.00	1509	72.90	2986	104.70	125	153.80	54
45.00	716	74.00	11163	105.10	132	154.80	169
46.80	723	75.00	33368	105.90	451	156.80	155

48.00	503	76.00	3228	110.60	54	160.80	71
49.00	3278	76.90	395	113.00	74	171.60	83
50.00	13272	77.80	187	114.80	159	172.80	577
51.00	3648	78.90	2224	115.80	342	173.90	64360
52.10	365	79.80	718	116.90	386	174.90	5033

54.00	52	80.90	2158	117.90	425	175.90	63184
54.90	278	81.80	420	118.80	260	176.90	4164
56.00	1513	83.00	51	127.90	191	178.00	133
57.00	1763	86.90	2878	128.90	172		
59.90	665	87.80	2342	129.80	237		

61.00	3173	91.00	516	130.80	156		
62.00	3572	92.00	2006	134.70	222		



Data File : \\NAHSTWS005\Target\chem\voa6.i\x221216.b\X121601.D
Inj Date : 16-DEC-2022 11:17
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
 Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
 Inj Date : 16-DEC-2022 11:38
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD000.25;VSTD000.25;1;1;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 2 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		461807	50.0000	
135 1,4-Dioxane	88		5.625	5.625	(1.346)		214	5.00000	5.06(M)
140 1,3-Butadiene	54		1.164	1.164	(0.279)		1172	0.25000	0.36
25 Methacrylonitrile	41		3.855	3.855	(0.923)		5876	0.25000	1.79
12 Isobutyl Alcohol	43		4.687	4.687	(1.122)		2537	5.00000	4.88(TM)
13 Acetonitrile	39		2.202	2.202	(0.527)		730	2.50000	1.73
14 Allyl Chloride	41		2.206	2.206	(0.528)		1591	0.25000	0.19
4 Propionitrile	54		3.702	3.702	(0.886)		1165	2.50000	2.47(M)
72 trans-1,4-Dichloro-2-butene	53		8.931	8.931	(1.164)		280	0.25000	0.19(M)
145 alpha-Methylstyrene	118		9.268	9.268	(0.959)		2322	0.25000	0.30
200 Dimethyl Disulfide	94		6.213	6.213	(0.810)		1870	0.25000	0.21
139 Diethyl ether	59		1.760	1.760	(0.421)		687	0.25000	0.22
49 Ethyl Methacrylate	69		6.738	6.738	(1.357)		625	0.25000	0.19
142 Tetrahydrofuran	42		3.836	3.836	(0.918)		358	0.50000	(M)
166 1,2,3-Trimethylbenzene	105		9.737	9.737	(1.008)		4360	0.25000	0.25
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		801	0.25000	0.63(M)
3 Chloromethane	50		1.077	1.077	(0.258)		1420	0.25000	2.53
5 Vinyl Chloride	62		1.141	1.141	(0.273)		1134	0.25000	0.28(M)
6 Bromomethane	94		1.340	1.340	(0.321)		1009	0.25000	2.08(M)
8 Trichlorofluoromethane	101		1.561	1.561	(0.374)		1468	0.25000	0.26



10 Acetone	43	1.977	1.977 (0.473)	2727	0.50000	2.07
11 1,1-Dichloroethene	96	1.910	1.910 (0.457)	1010	0.25000	0.28(M)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
15 Iodomethane	142	2.026	2.026	(0.485)	1106	0.50000	3.56(T)
17 Methylene Chloride	84	2.292	2.292	(0.549)	1436	0.25000	0.29(M)
18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	2787	0.25000	0.24
19 Carbon Disulfide	76	2.071	2.071	(0.496)	5999	0.50000	0.65
20 trans-1,2-Dichloroethene	96	2.539	2.539	(0.608)	1302	0.25000	0.33
24 2-Butanone	43	3.698	3.698	(0.885)	1014	0.50000	3.74
27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	1402	0.25000	0.29
28 Chloroform	83	3.908	3.908	(0.935)	2553	0.25000	0.33
29 Bromochloromethane	128	3.799	3.799	(0.909)	802	0.25000	0.30(M)
\$ 30 Dibromofluoromethane	113	4.103	4.103	(0.982)	1706	0.25000	0.21
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	1648	0.25000	0.26
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	2114	0.25000	0.43
33 1,2-Dichloroethane	62	4.571	4.571	(0.921)	2167	0.25000	0.38
34 Carbon Tetrachloride	117	4.256	4.256	(0.857)	1685	0.25000	0.32(M)
\$ 35 1,2-Dichloroethane-d4	65	4.481	4.481	(1.073)	2260	0.25000	0.75(T)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	690224	50.00000	
37 Benzene	78	4.522	4.522	(0.911)	5768	0.25000	0.34
38 Trichloroethene	130	5.212	5.212	(1.050)	1544	0.25000	0.33
44 Dibromomethane	93	5.565	5.565	(1.121)	1046	0.25000	0.35
45 4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	2297	0.50000	0.65
46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	1839	0.25000	0.25
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	653787	50.00000	
\$ 48 Toluene-d8	98	6.401	6.401	(0.834)	6828	0.25000	0.42(T)
50 Toluene	91	6.457	6.457	(0.842)	6778	0.25000	0.37
52 2-Hexanone	43	7.150	7.150	(0.932)	974	0.50000	0.40(T)
53 1,1,2-Trichloroethane	83	6.847	6.847	(0.893)	1098	0.25000	0.30
54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	2278	0.25000	0.31
55 Dibromochloromethane	129	7.184	7.184	(0.936)	1732	0.25000	0.33
56 Tetrachloroethene	164	6.933	6.933	(0.904)	1051	0.25000	0.28
57 1,2-Dibromoethane	107	7.278	7.278	(0.949)	1100	0.25000	0.24
58 1-Chlorohexane	55	7.668	7.668	(1.544)	6570	0.25000	1.96
59 Chlorobenzene	112	7.694	7.694	(1.003)	3981	0.25000	0.31
60 1,1,1,2-Tetrachloroethane	131	7.780	7.780	(1.014)	1245	0.25000	0.26
61 Ethylbenzene	106	7.810	7.810	(1.018)	1854	0.25000	0.30
62 m,p-Xylenes	106	7.915	7.915	(1.032)	5083	0.50000	0.65
63 o-Xylene	106	8.252	8.252	(1.076)	2471	0.25000	0.32
64 Styrene	104	8.297	8.297	(1.082)	3214	0.25000	0.24
67 Isopropylbenzene	105	8.575	8.575	(1.118)	5495	0.25000	0.31
\$ 69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	4271	0.25000	0.77
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	348702	50.00000	
71 1,2,3-Trichloropropane	75	8.875	8.875	(0.919)	766	0.25000	0.19(M)
73 n-Propylbenzene	91	8.931	8.931	(0.924)	5570	0.25000	0.28
74 Bromobenzene	156	8.826	8.826	(0.913)	1517	0.25000	0.26
75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	4893	0.25000	0.34
76 2-Chlorotoluene	91	8.991	8.991	(0.931)	4890	0.25000	0.38
77 4-Chlorotoluene	91	9.107	9.107	(0.943)	3881	0.25000	0.26
78 tert-Butylbenzene	119	9.343	9.343	(0.967)	4059	0.25000	0.34
79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	5202	0.25000	0.34
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	4818	0.25000	0.31
82 p-Isopropyltoluene	119	9.662	9.662	(1.000)	4406	0.25000	0.31
83 1,3-Dichlorobenzene	146	9.621	9.621	(0.996)	3005	0.25000	0.31
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	3674	0.25000	0.35



87 n-Butylbenzene	91	10.033	10.033 (1.038)	1595	0.25000	1.89
88 1,2-Dichlorobenzene	146	10.010	10.010 (1.036)	2937	0.25000	0.30

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D Page 3

Report Date: 27-Dec-2022 16:07

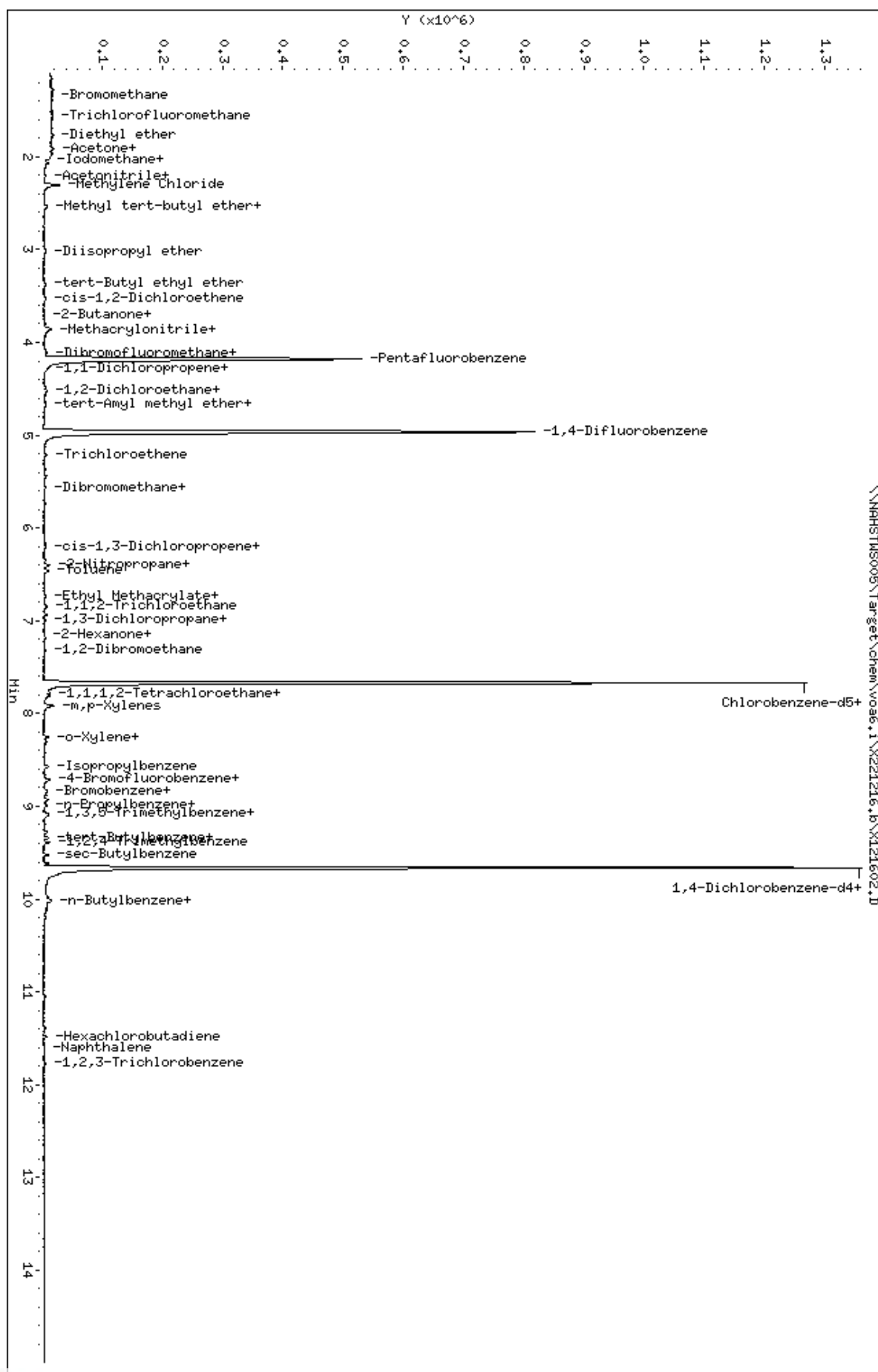
Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.484	11.484	(1.189)	726	0.25000	0.21(M)
92 Naphthalene	128	11.607	11.607	(1.201)	1969	0.25000	0.14
93 1,2,3-Trichlorobenzene	180	11.769	11.769	(1.218)	1816	0.25000	0.30(M)
M 94 1,2-Dichloroethylene (total)	96				2704	0.50000	
M 95 Xylenes (total)	106				7554	0.75000	
141 Cyclohexane	56	4.125	4.125	(0.987)	1235	0.25000	1.51(M)
138 Freon TF	101	1.917	1.917	(0.459)	765	0.25000	0.22(M)

QC Flag Legend

T - Target compound detected outside RT window.

M - Compound response manually integrated.





Data File: \\NAHSTMS005\Target\chem\voa6.i\X221216.b\X121602.D
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 Sample Info: VSTD000.25;VSTD000.25;11;11
 Purge Volume: 5.0
 Column phase: DB624

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

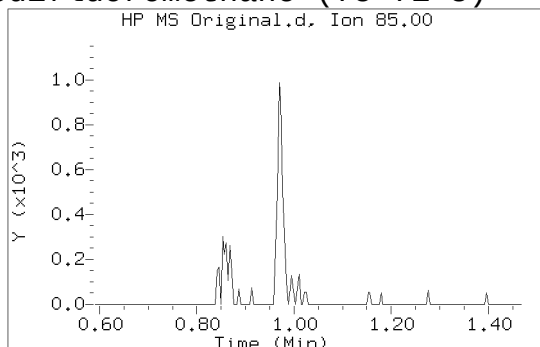


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Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Dichlorodifluoromethane (75-71-8)

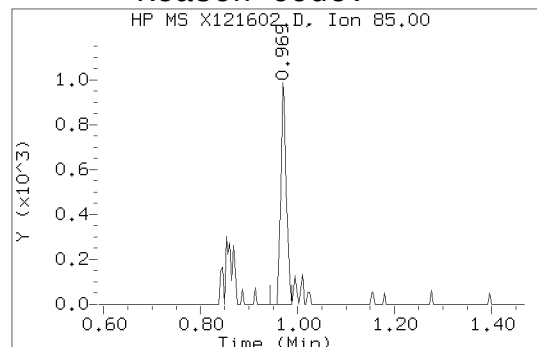
BEFORE

MASS
50
AREA
1420
HEIGHT
1809
16-Dec-2022
11:54
ALSHS
Server



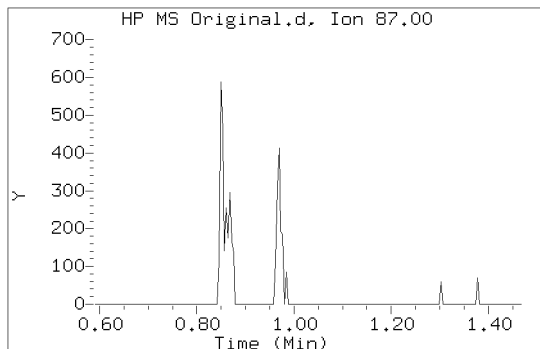
AFTER

MASS
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AREA
801
HEIGHT
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27-Dec-2022
16:07
ALSHS
Ser



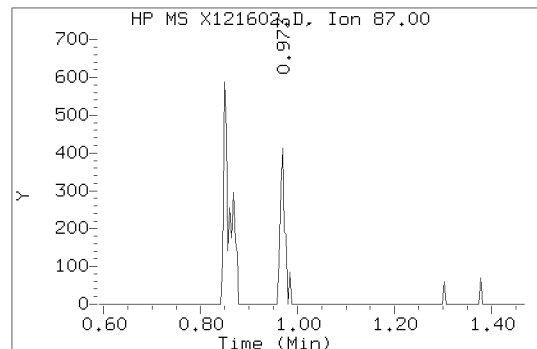
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MASS
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AREA
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HEIGHT
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11:54
ALSHS
Server



AFTER

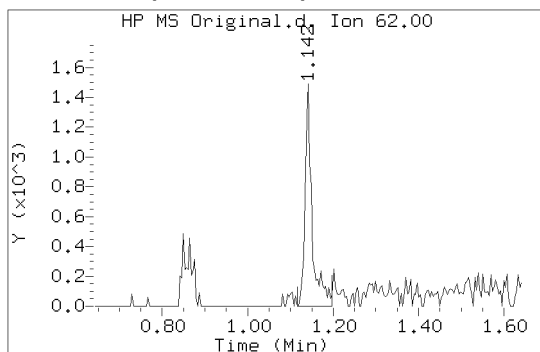
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AREA
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HEIGHT
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16:07
ALSHS
Ser



Vinyl Chloride (75-01-4)

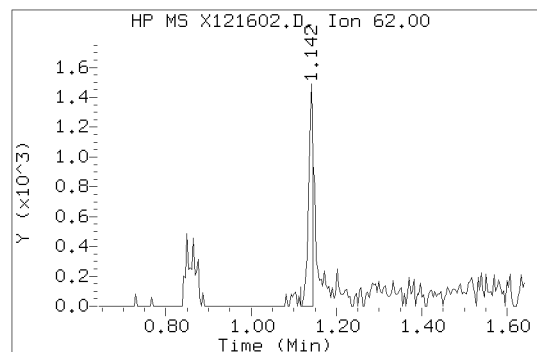
BEFORE

MASS
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AREA
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HEIGHT
983
16-Dec-2022
11:54
ALSHS
Server



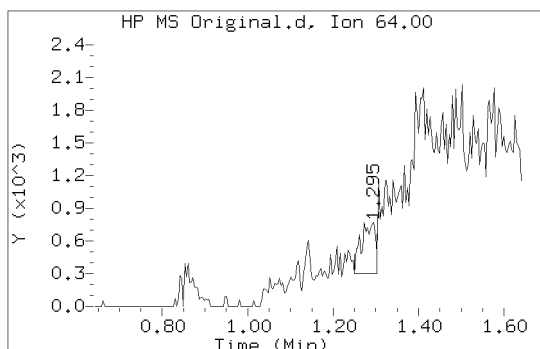
AFTER

MASS
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AREA
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HEIGHT
1490
27-Dec-2022
16:07
ALSHS
Ser



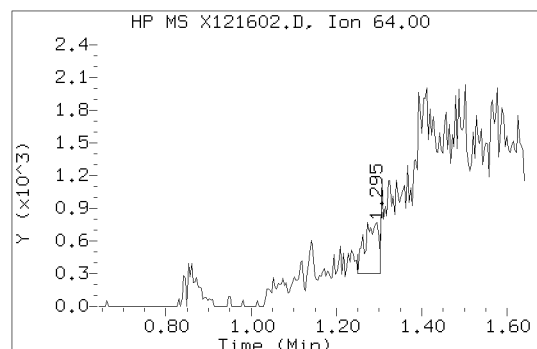
BEFORE

MASS
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AREA
1330
HEIGHT
961
16-Dec-2022
11:54
ALSHS
Server



AFTER

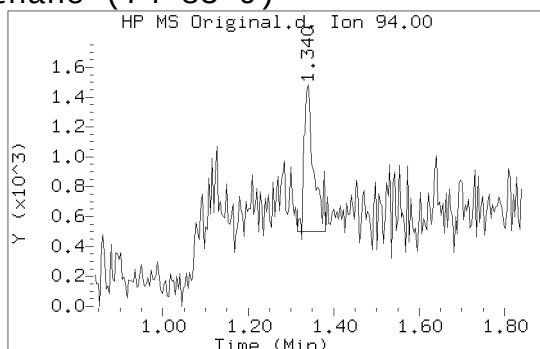
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ALSHS
Ser



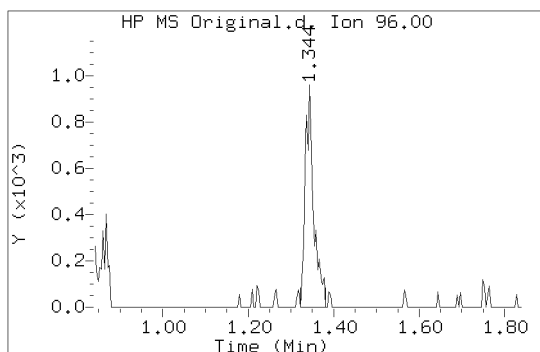
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Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Bromomethane (74-83-9)**BEFORE**

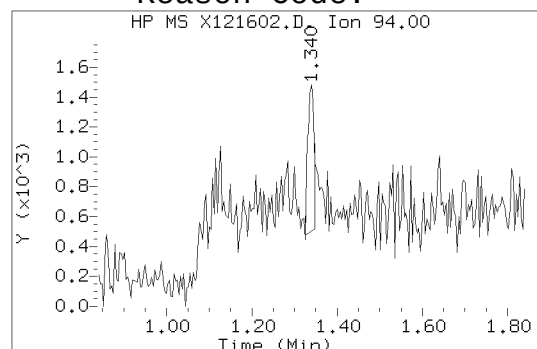
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AREA
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HEIGHT
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16-Dec-2022
11:54
ALSHS
Server

**BEFORE**

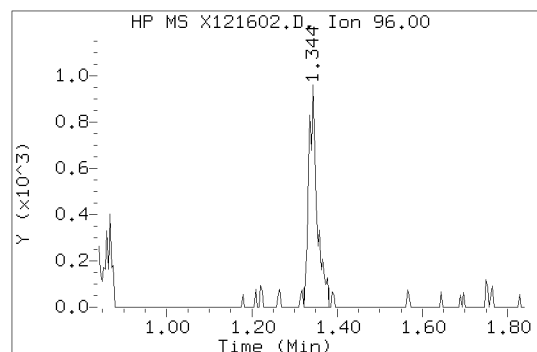
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HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server

**Reason Code:****AFTER**

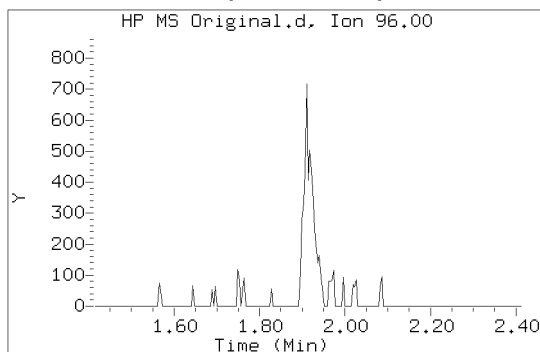
MASS
94
AREA
1009
HEIGHT
977
27-Dec-2022
16:07
ALSHS

**AFTER**

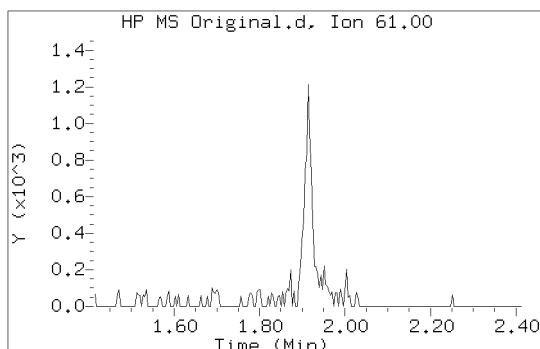
Ser
MASS
96
AREA
1330
HEIGHT
961
27-Dec-2022
16:07
ALSHS
Ser

**1,1-Dichloroethene (75-35-4)****BEFORE**

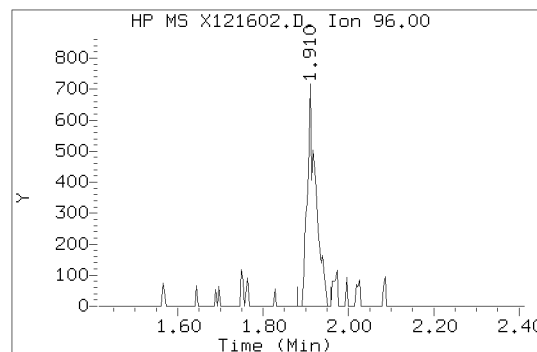
MASS
142
AREA
1106
HEIGHT
699
16-Dec-2022
11:54
ALSHS
Server

**BEFORE**

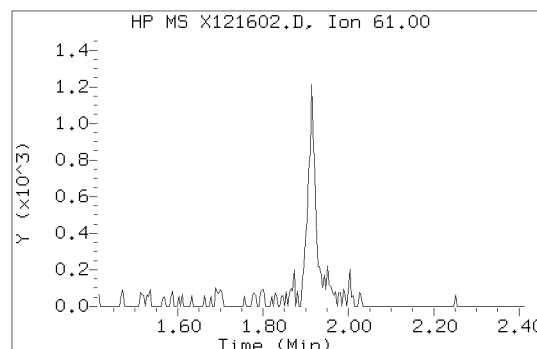
MASS
127
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server

**Reason Code:****AFTER**

MASS
96
AREA
1010
HEIGHT
717
27-Dec-2022
16:07
ALSHS

**AFTER**

Ser
MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

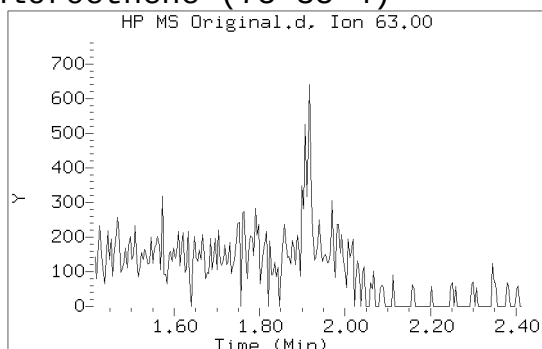


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121602.D
 Inj Date : 16-DEC-2022 11:38
 InstruID : voa6.i
 LabSampID : VSTD000.25

1,1-Dichloroethene (75-35-4)

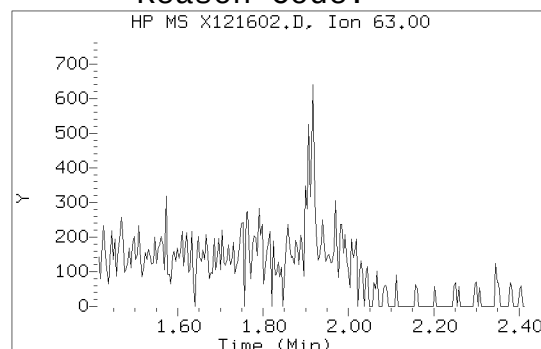
BEFORE

MASS
141
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

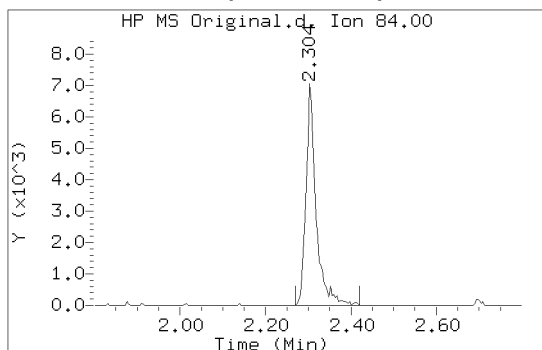
MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



Methylene Chloride (75-09-2)

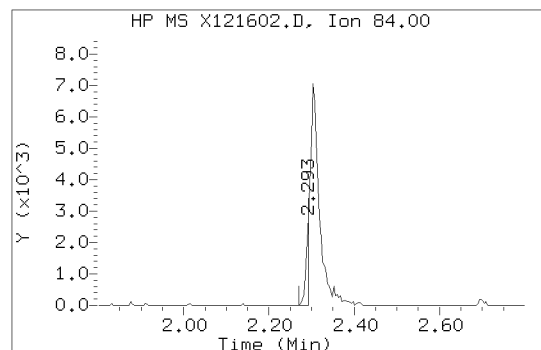
BEFORE

MASS
84
AREA
11777
HEIGHT
7057
16-Dec-2022
11:54
ALSHS
Server



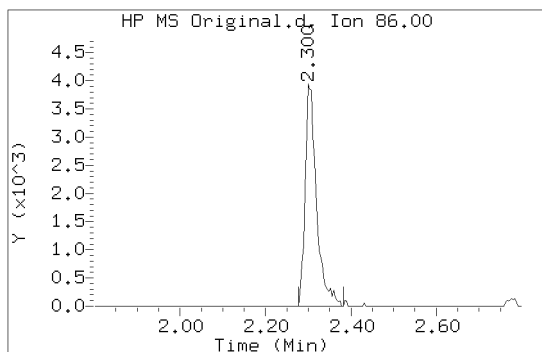
AFTER

MASS
84
AREA
1436
HEIGHT
2786
27-Dec-2022
16:07
ALSHS
Ser



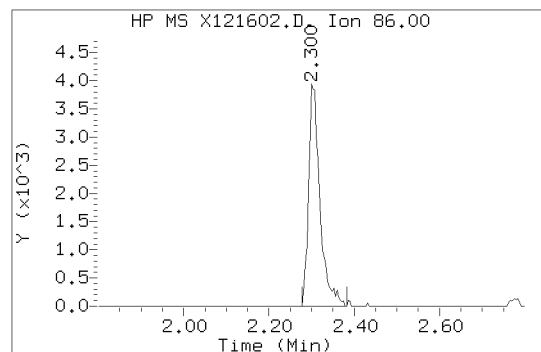
BEFORE

MASS
86
AREA
7453
HEIGHT
3944
16-Dec-2022
11:54
ALSHS
Server



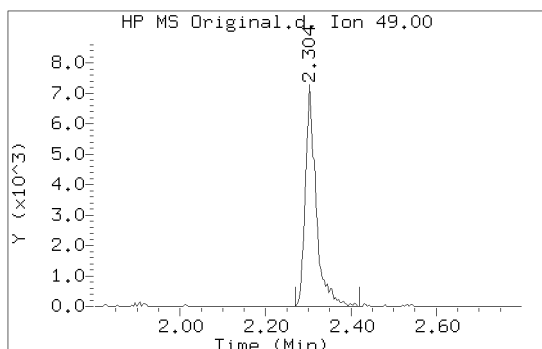
AFTER

MASS
86
AREA
7453
HEIGHT
3944
27-Dec-2022
16:07
ALSHS
Ser



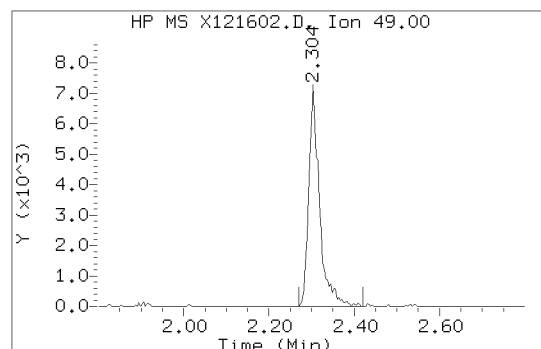
BEFORE

MASS
49
AREA
12974
HEIGHT
7289
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
49
AREA
12974
HEIGHT
7289
27-Dec-2022
16:07
ALSHS
Ser

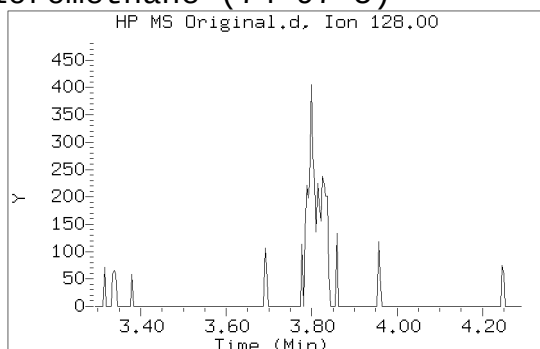


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121602.D
 Inj Date : 16-DEC-2022 11:38
 InstruID : voa6.i
 LabSampID : VSTD000.25

Bromochloromethane (74-97-5)

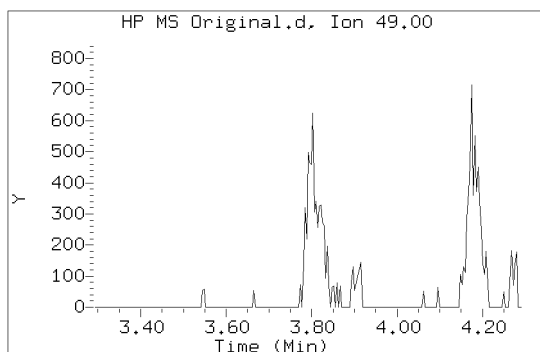
BEFORE

MASS
96
AREA
1402
HEIGHT
854
16-Dec-2022
11:54
ALSHS
Server



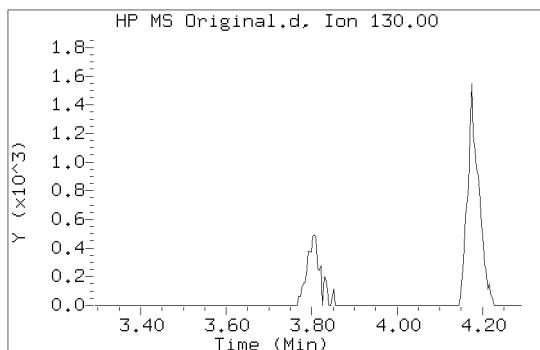
BEFORE

MASS
61
AREA
1975
HEIGHT
828
16-Dec-2022
11:54
ALSHS
Server



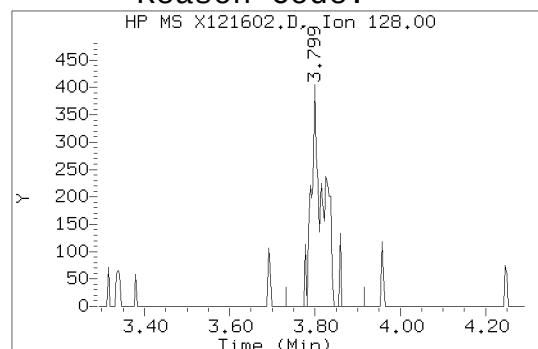
BEFORE

MASS
98
AREA
1027
HEIGHT
608
16-Dec-2022
11:54
ALSHS
Server



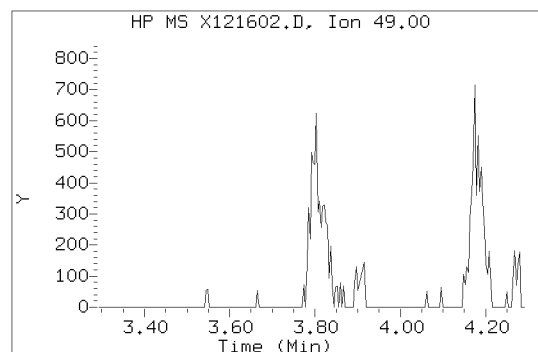
AFTER

MASS
128
AREA
802
HEIGHT
405
27-Dec-2022
16:07
ALSHS
Ser



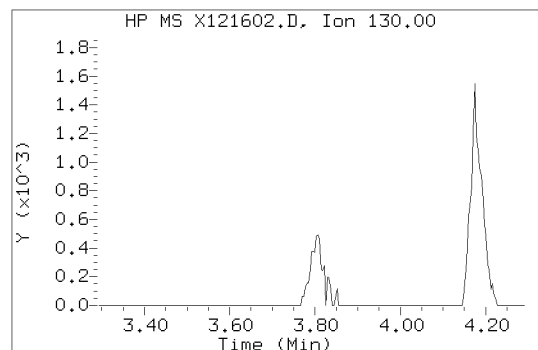
AFTER

MASS
49
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



AFTER

MASS
130
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

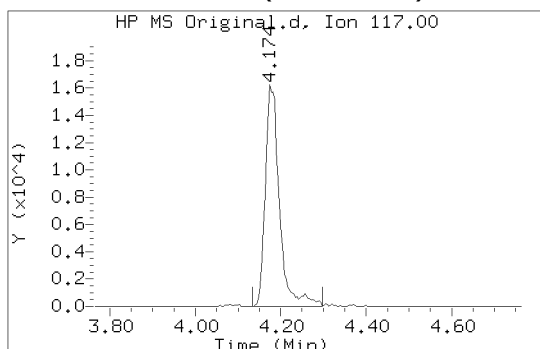


Reason Code:

Carbon Tetrachloride (56-23-5)

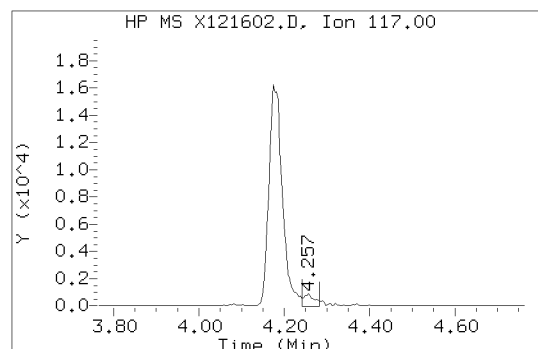
BEFORE

MASS
97
AREA
1700
HEIGHT
1016
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
117
AREA
1685
HEIGHT
944
27-Dec-2022
16:07
ALSHS
Ser



Reason Code:

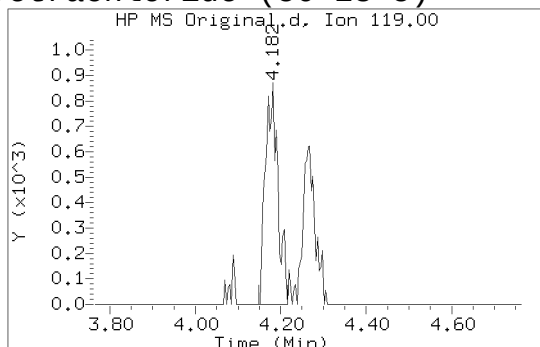


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121602.D
 Inj Date : 16-DEC-2022 11:38
 InstruID : voa6.i
 LabSampID : VSTD000.25

Carbon Tetrachloride (56-23-5)

BEFORE

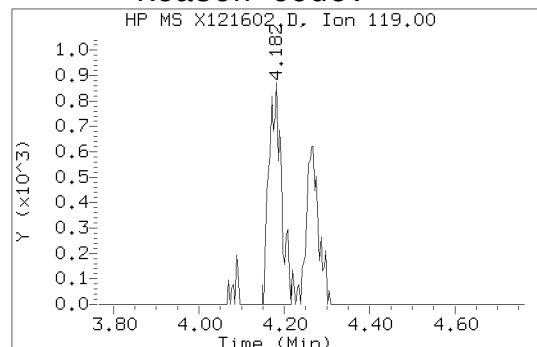
MASS
99
AREA
207130
HEIGHT
91368
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
119
AREA
1748
HEIGHT
872
27-Dec-2022
16:07
ALSHS
Ser

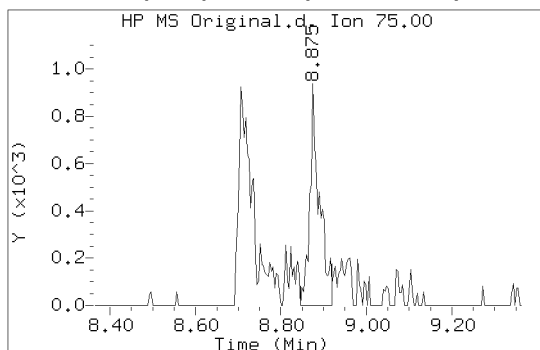
Reason Code:



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

BEFORE

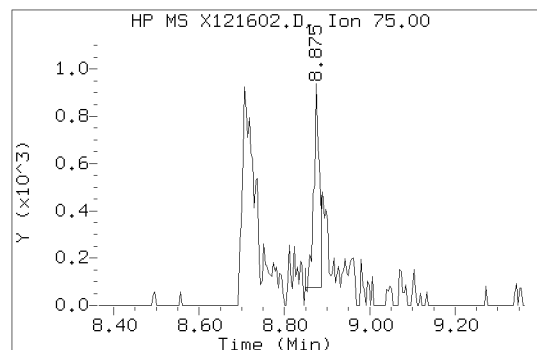
MASS
152
AREA
348702
HEIGHT
242350
16-Dec-2022
11:54
ALSHS
Server



AFTER

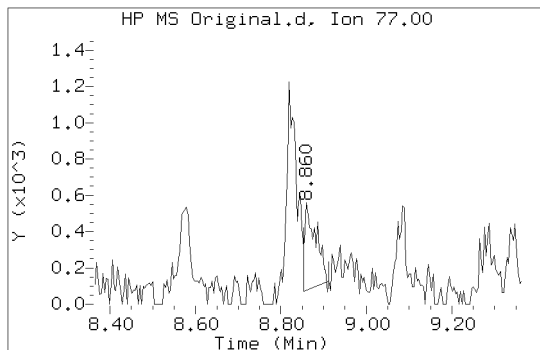
MASS
75
AREA
766
HEIGHT
862
27-Dec-2022
16:07
ALSHS
Ser

Reason Code:



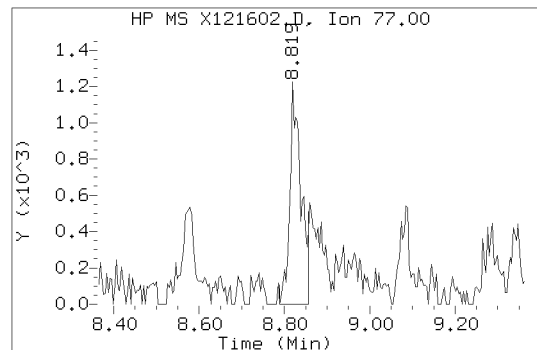
BEFORE

MASS
115
AREA
184413
HEIGHT
133835
16-Dec-2022
11:54
ALSHS
Server



AFTER

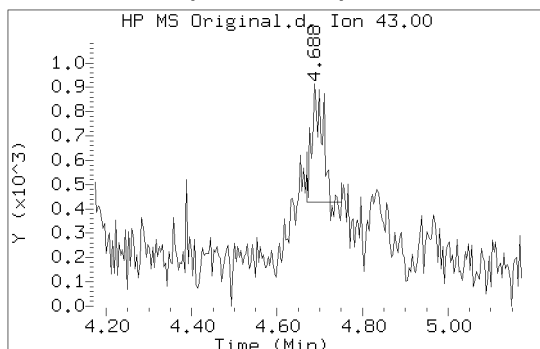
MASS
77
AREA
2223
HEIGHT
1225
27-Dec-2022
16:07
ALSHS
Ser



Isobutyl Alcohol (78-83-1)

BEFORE

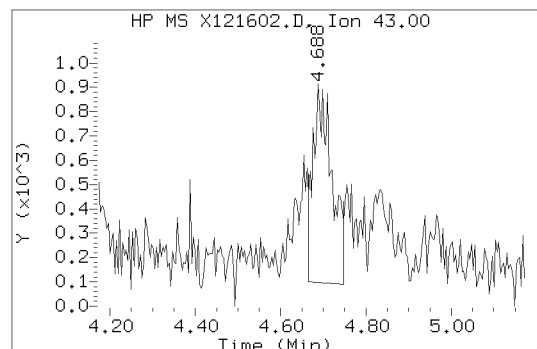
MASS
75
AREA
1475
HEIGHT
938
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
43
AREA
2537
HEIGHT
816
27-Dec-2022
16:07
ALSHS
Ser

Reason Code:

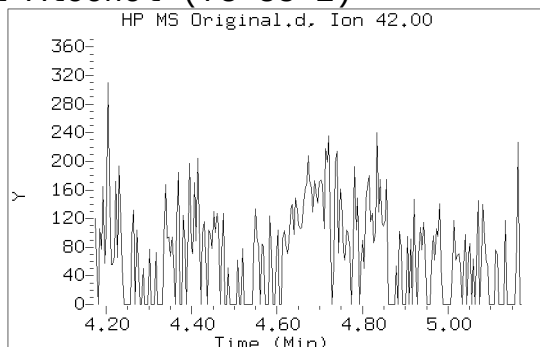


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121602.D
Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Isobutyl Alcohol (78-83-1)

BEFORE

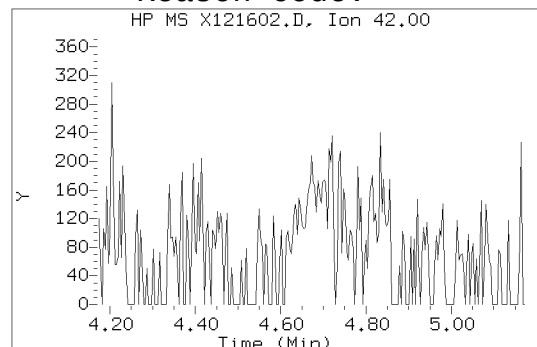
MASS
77
AREA
888
HEIGHT
483
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

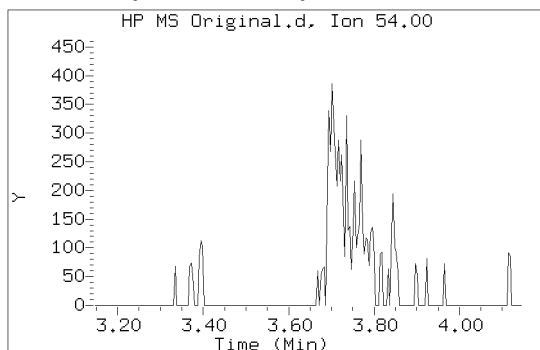
Reason Code:



Propionitrile (107-12-0)

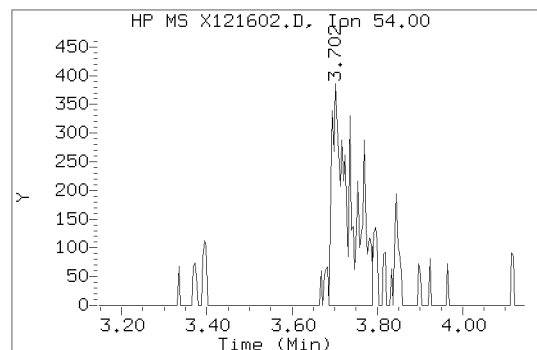
BEFORE

MASS
91
AREA
3881
HEIGHT
1822
16-Dec-2022
11:54
ALSHS
Server



AFTER

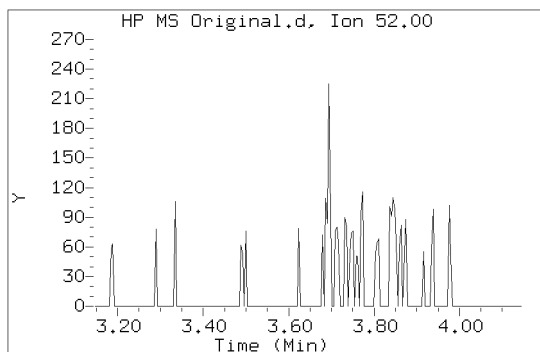
MASS
54
AREA
1165
HEIGHT
386
27-Dec-2022
16:07
ALSHS
Ser



Reason Code:

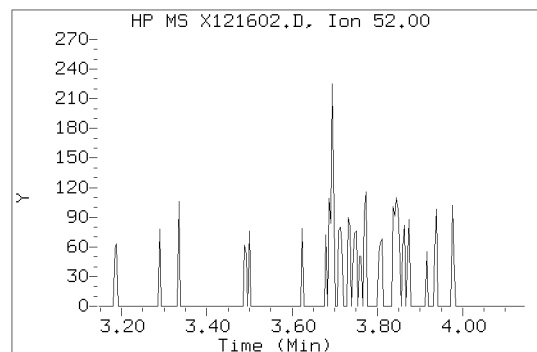
BEFORE

MASS
126
AREA
1511
HEIGHT
914
16-Dec-2022
11:54
ALSHS
Server



AFTER

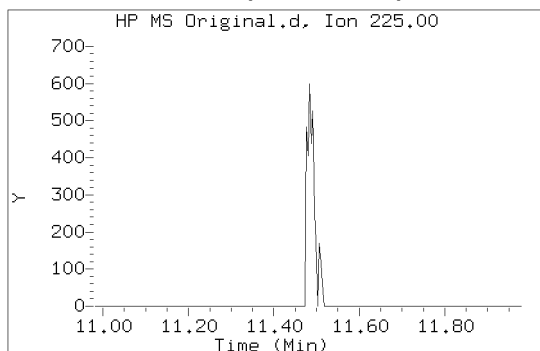
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



Hexachlorobutadiene (87-68-3)

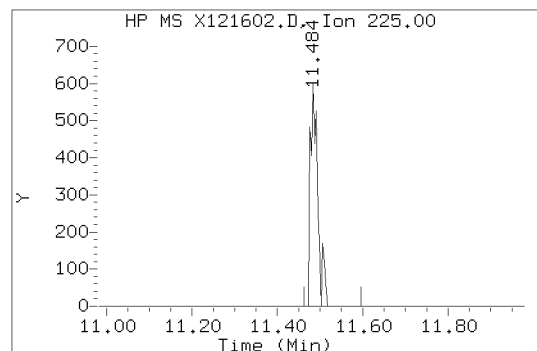
BEFORE

MASS
155
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
225
AREA
726
HEIGHT
599
27-Dec-2022
16:07
ALSHS
Ser



Reason Code:

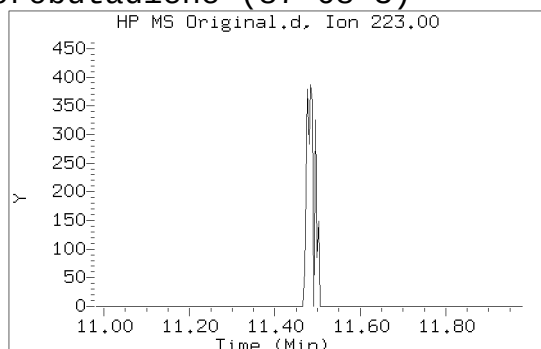


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121602.D
 Inj Date : 16-DEC-2022 11:38
 InstruID : voa6.i
 LabSampID : VSTD000.25

Hexachlorobutadiene (87-68-3)

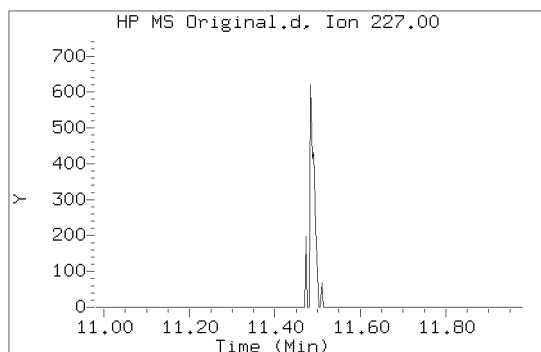
BEFORE

MASS
157
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS



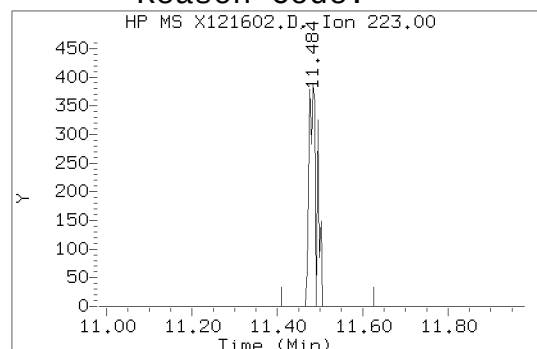
BEFORE

MASS
75
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



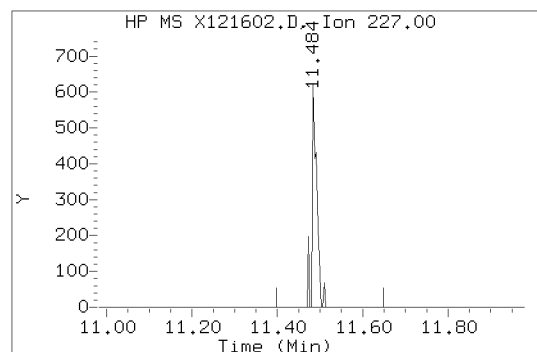
AFTER

MASS
223
AREA
502
HEIGHT
387
27-Dec-2022
16:07
ALSHS



AFTER

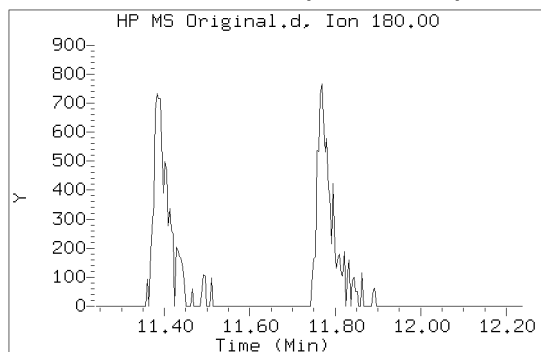
MASS
227
AREA
469
HEIGHT
620
27-Dec-2022
16:07
ALSHS
Ser



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

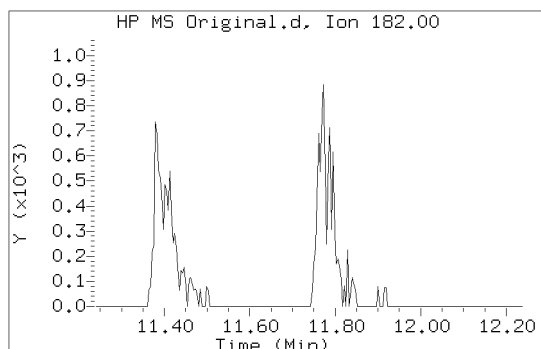
BEFORE

MASS
225
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



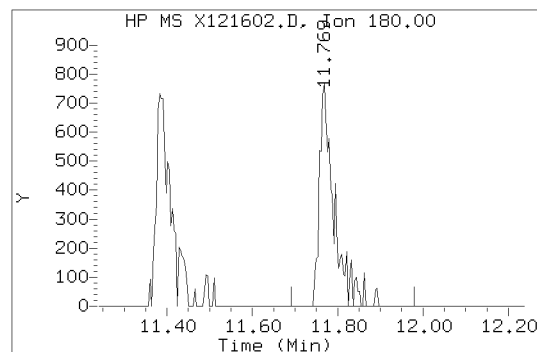
BEFORE

MASS
223
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



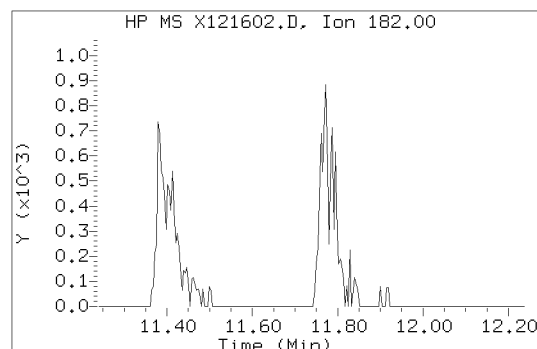
AFTER

MASS
180
AREA
1816
HEIGHT
766
27-Dec-2022
16:07
ALSHS



AFTER

MASS
182
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

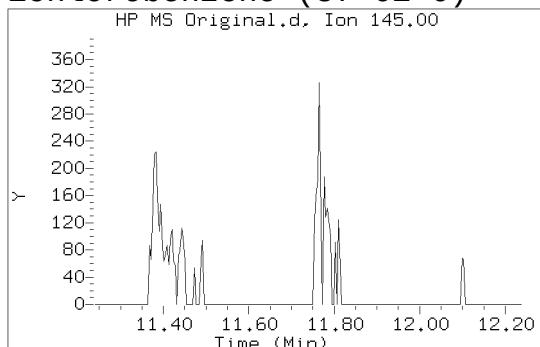


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121602.D
 Inj Date : 16-DEC-2022 11:38
 InstruID : voa6.i
 LabSampID : VSTD000.25

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

BEFORE

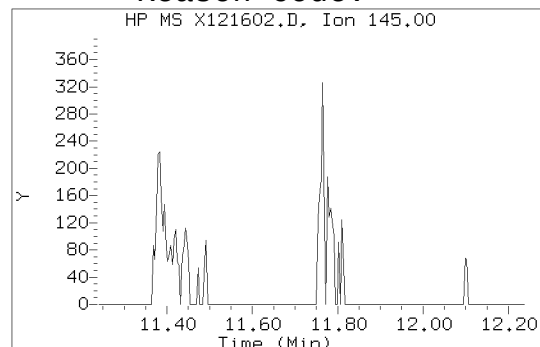
MASS
227
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
145
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

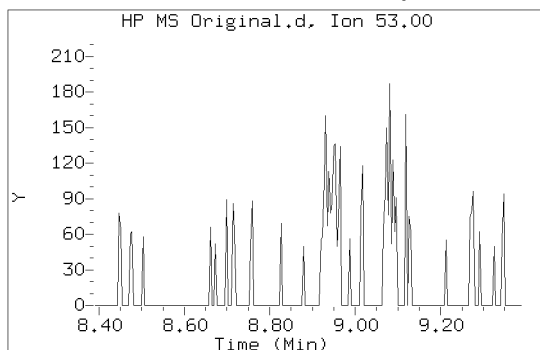
Reason Code:



trans-1,4-Dichloro-2-butene (110-57-6)

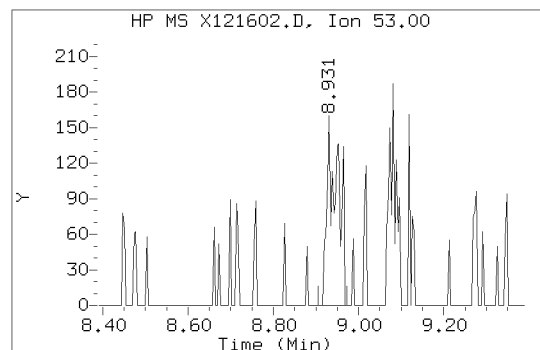
BEFORE

MASS
53
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



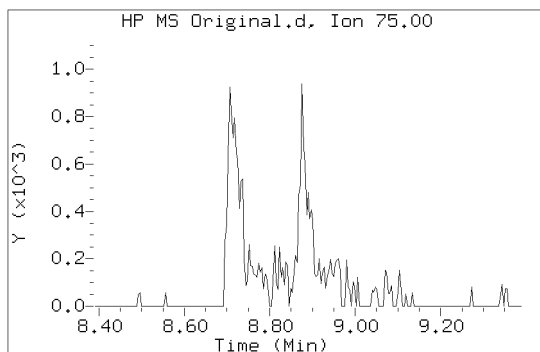
AFTER

MASS
53
AREA
280
HEIGHT
160
27-Dec-2022
16:07
ALSHS
Ser



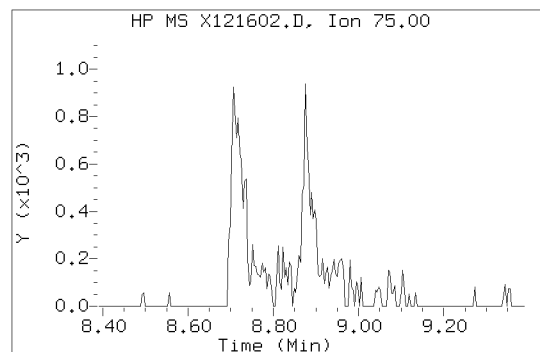
BEFORE

MASS
88
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

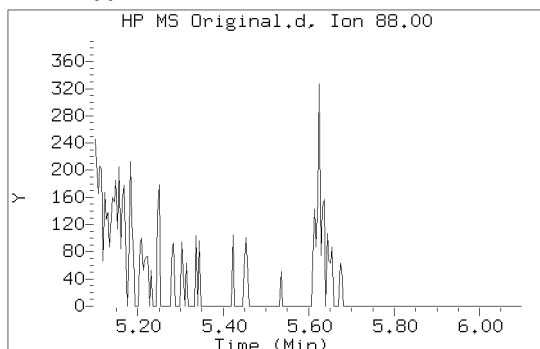
MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



1,4-Dioxane ()

BEFORE

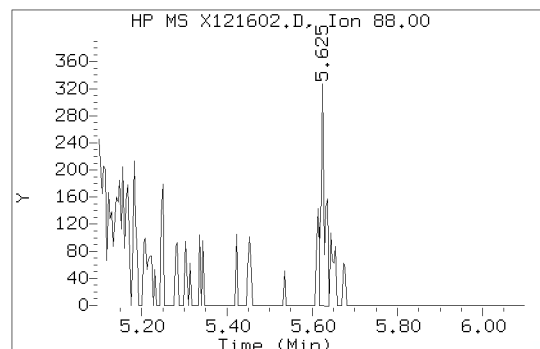
MASS
57
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
88
AREA
214
HEIGHT
327
27-Dec-2022
16:07
ALSHS
Ser

Reason Code:

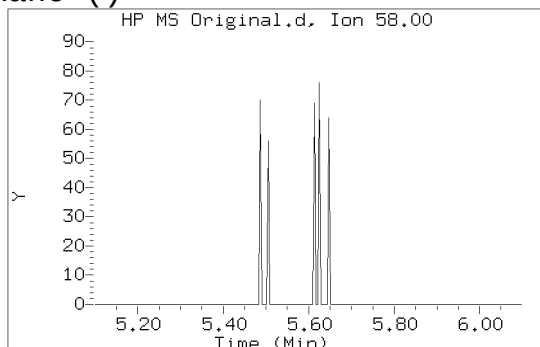


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121602.D
 Inj Date : 16-DEC-2022 11:38
 InstruID : voa6.i
 LabSampID : VSTD000.25

1,4-Dioxane ()

BEFORE

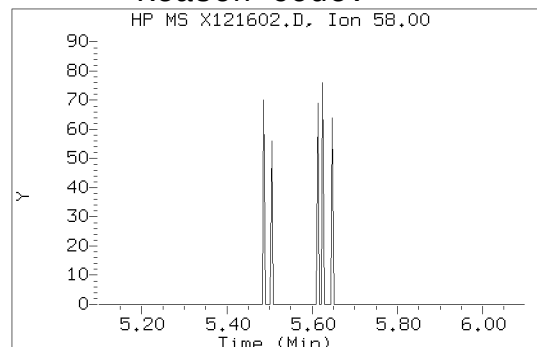
MASS
41
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



AFTER

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser

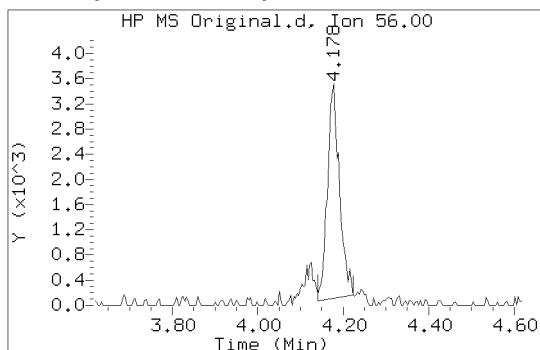
Reason Code:



Cyclohexane (110-82-7)

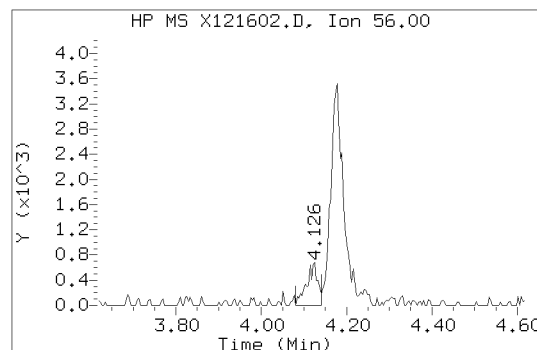
BEFORE

MASS
42
AREA
0
HEIGHT
0
16-Dec-2022
11:54
ALSHS
Server



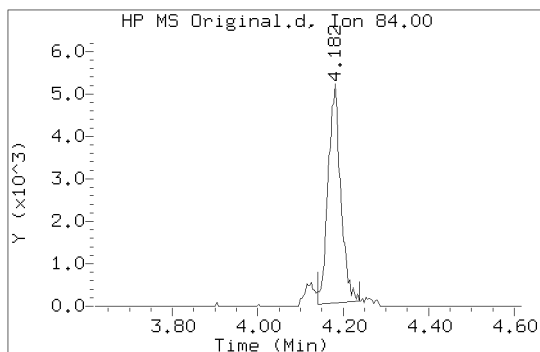
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27-Dec-2022
16:07
ALSHS
Ser



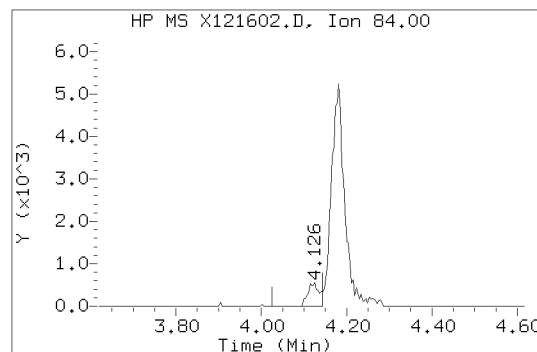
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16-Dec-2022
11:54
ALSHS
Server



AFTER

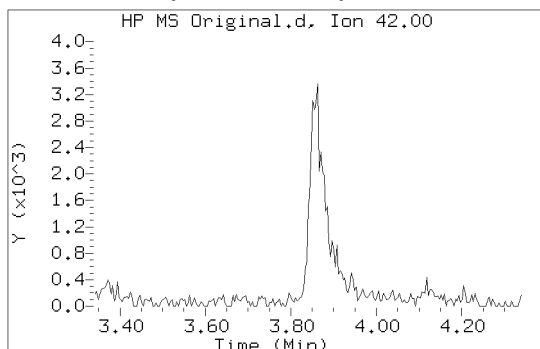
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16:07
ALSHS
Ser



Tetrahydrofuran (109-99-9)

BEFORE

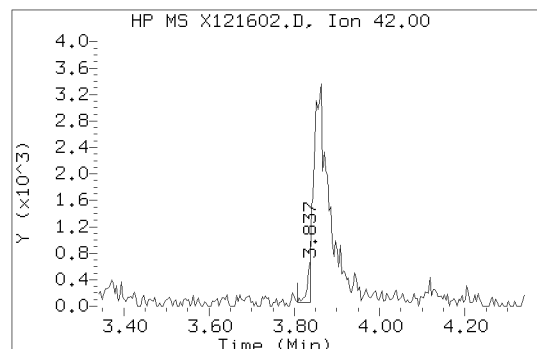
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16-Dec-2022
11:54
ALSHS
Server



AFTER

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HEIGHT
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27-Dec-2022
16:07
ALSHS
Ser

Reason Code:

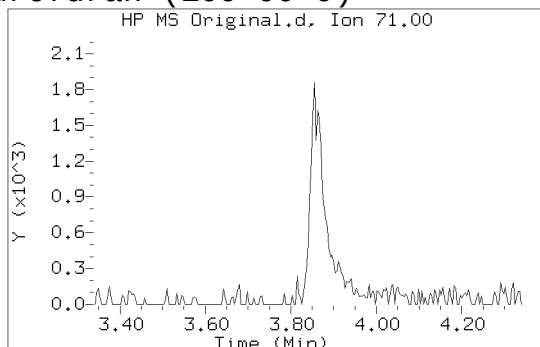


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Inj Date : 16-DEC-2022 11:38
InstruID : voa6.i
LabSampID : VSTD000.25

Tetrahydrofuran (109-99-9)

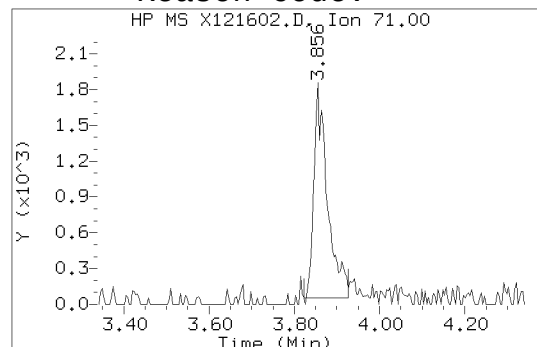
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HEIGHT
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16-Dec-2022
11:54
ALSHS
Server



AFTER

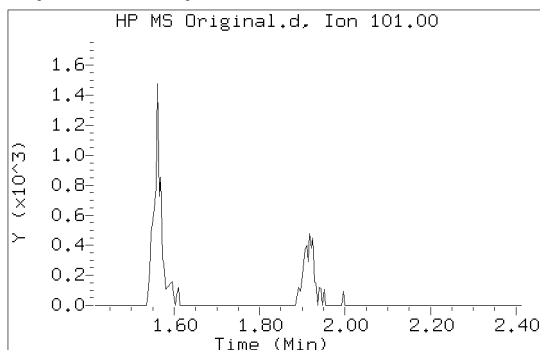
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16:07
ALSHS
Ser



Freon TF (76-13-1)

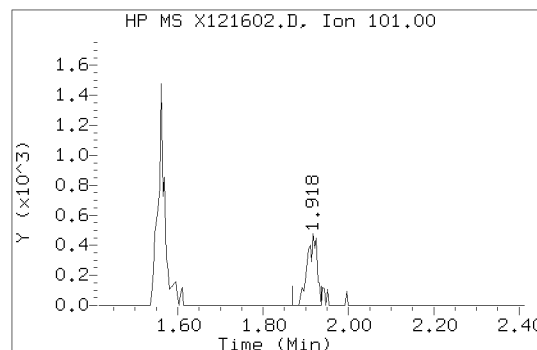
BEFORE

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0
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11:54
ALSHS
Server



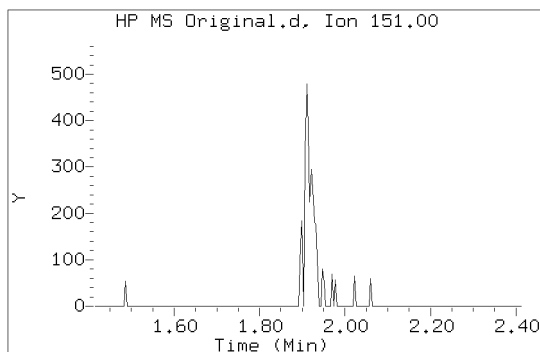
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16:07
ALSHS
Ser



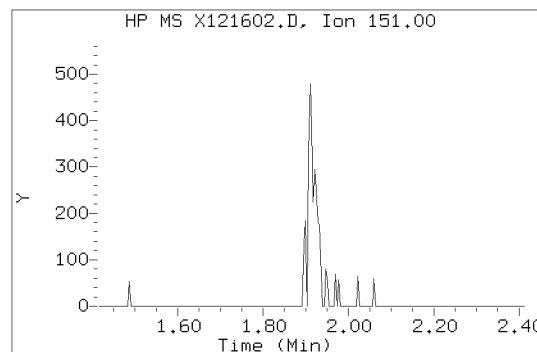
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11:54
ALSHS
Server



AFTER

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AREA
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HEIGHT
0
27-Dec-2022
16:07
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
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 Inj Date : 16-DEC-2022 12:20
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD000.5;VSTD000.5;1;2;
 Misc Info : V6;WATER;0;1;
 Comment :
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 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 11:38 Cal File: X121602.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)	461469	50.0000		
135 1,4-Dioxane	88		5.625	5.625	(1.346)	462	10.0000	10.95(M)	
140 1,3-Butadiene	54		1.164	1.164	(0.279)	1793	0.50000	0.56(M)	
25 Methacrylonitrile	41		3.848	3.848	(0.921)	2066	0.50000	0.63(M)	
12 Isobutyl Alcohol	43		4.695	4.695	(1.124)	5178	10.0000	9.97(M)	
13 Acetonitrile	39		2.210	2.210	(0.529)	2204	5.00000	5.24(M)	
14 Allyl Chloride	41		2.206	2.206	(0.528)	4574	0.50000	0.57(M)	
4 Propionitrile	54		3.686	3.686	(0.882)	2777	5.00000	5.89(M)	
136 n-Hexane	57		2.772	2.772	(0.664)	1909	0.50000	0.57(M)	
72 trans-1,4-Dichloro-2-butene	53		8.931	8.931	(1.165)	792	0.50000	0.56(M)	
23 Chloroprene	53		1.771	1.771	(0.424)	900	0.50000	0.57(M)	
145 alpha-Methylstyrene	118		9.272	9.272	(0.960)	4701	0.50000	0.60	
200 Dimethyl Disulfide	94		6.202	6.202	(0.809)	5153	0.50000	0.59(M)	
139 Diethyl ether	59		1.760	1.760	(0.421)	1864	0.50000	0.60	
130 Ethyl Acetate	43		3.679	3.679	(0.881)	2065	0.50000	0.57(M)	
40 Methyl Methacrylate	41		5.628	5.628	(1.347)	1788	0.50000	0.56(M)	
49 Ethyl Methacrylate	69		6.727	6.727	(1.355)	1935	0.50000	0.59(M)	
132 n-Butanol	56		5.291	5.291	(1.266)	622	10.0000	50.83(M)	
142 Tetrahydrofuran	42		3.840	3.840	(0.919)	900	1.00000	(M)	
150 Allyl alcohol	57		2.772	2.772	(0.664)	3089	10.0000	17.23	



166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	9626	0.50000	0.57(M)
131 Methyl Acrylate	55	3.743	3.743 (0.896)	1765	0.50000	0.56(M)



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D Page 2
Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
162 Butyl acrylate	55	8.271	8.271	(1.079)	4718	0.50000	0.55(M)
2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	1990	0.50000	1.00(M)
3 Chloromethane	50	1.077	1.077	(0.258)	2466	0.50000	2.77(M)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	2412	0.50000	0.59(M)
6 Bromomethane	94	1.336	1.336	(0.320)	1893	0.50000	2.36(M)
7 Chloroethane	64	1.407	1.407	(0.337)	1653	0.50000	0.58(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	3286	0.50000	0.58(M)
9 Acrolein	56	1.441	1.441	(0.345)	440	1.00000	4.17(M)
10 Acetone	43	1.977	1.977	(0.473)	2669	1.00000	2.02(M)
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	2037	0.50000	0.58(M)
15 Iodomethane	142	2.026	2.026	(0.485)	2397	1.00000	3.84(TM)
16 Acrylonitrile	53	2.566	2.566	(0.614)	1118	1.00000	0.94(M)
17 Methylene Chloride	84	2.296	2.296	(0.550)	2938	0.50000	0.61(M)
18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	5841	0.50000	0.50(M)
19 Carbon Disulfide	76	2.067	2.067	(0.495)	9921	1.00000	1.08(M)
20 trans-1,2-Dichloroethene	96	2.543	2.543	(0.609)	2218	0.50000	0.56(M)
21 Vinyl Acetate	43	3.023	3.023	(0.724)	10138	1.00000	1.00(M)
22 1,1-Dichloroethane	63	2.926	2.926	(0.700)	3874	0.50000	0.56(M)
24 2-Butanone	43	3.649	3.649	(0.873)	1292	1.00000	3.93(M)
26 2,2-Dichloropropane	77	3.514	3.514	(0.841)	3238	0.50000	0.55(M)
27 cis-1,2-Dichloroethene	96	3.544	3.544	(0.848)	2852	0.50000	0.59
28 Chloroform	83	3.908	3.908	(0.935)	4040	0.50000	0.52(M)
29 Bromochloromethane	128	3.799	3.799	(0.909)	1481	0.50000	0.56
\$ 30 Dibromofluoromethane	113	4.110	4.110	(0.984)	2321	0.50000	0.35
31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	3512	0.50000	0.57(M)
32 1,1-Dichloropropene	75	4.290	4.290	(0.864)	2468	0.50000	0.50(M)
33 1,2-Dichloroethane	62	4.567	4.567	(0.920)	3129	0.50000	0.55(M)
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	2763	0.50000	0.52(MH)
\$ 35 1,2-Dichloroethane-d4	65	4.481	4.481	(1.073)	2849	0.50000	0.87(T)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	687671	50.0000	
37 Benzene	78	4.519	4.519	(0.910)	9243	0.50000	0.56
38 Trichloroethene	130	5.216	5.216	(1.051)	2583	0.50000	0.55(M)
39 Bromodichloromethane	83	5.730	5.730	(1.154)	3650	0.50000	0.59(M)
41 2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	1861	1.00000	1.06(M)
42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	2449	0.50000	0.56(M)
44 Dibromomethane	93	5.557	5.557	(1.119)	1725	0.50000	0.58
45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	3741	1.00000	1.08(M)
46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	3695	0.50000	0.51(M)
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	645291	50.0000	
\$ 48 Toluene-d8	98	6.401	6.401	(0.835)	9525	0.50000	0.59
50 Toluene	91	6.460	6.460	(0.843)	10374	0.50000	0.58(M)
51 trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	3042	0.50000	0.50
52 2-Hexanone	43	7.117	7.117	(0.928)	2580	1.00000	1.09
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	2092	0.50000	0.58(M)
54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	4005	0.50000	0.56(M)
55 Dibromochloromethane	129	7.180	7.180	(0.936)	2827	0.50000	0.54
56 Tetrachloroethene	164	6.933	6.933	(0.904)	2131	0.50000	0.57(M)
57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	2340	0.50000	0.52(M)
58 1-Chlorohexane	55	7.705	7.705	(1.552)	1829	0.50000	0.55(MH)
59 Chlorobenzene	112	7.694	7.694	(1.003)	7747	0.50000	0.61
60 1,1,1,2-Tetrachloroethane	131	7.784	7.784	(1.015)	2741	0.50000	0.58(M)
61 Ethylbenzene	106	7.806	7.806	(1.018)	3064	0.50000	0.51(M)



62 m,p-Xylenes	106	7.911	7.911 (1.032)	9016	1.00000	1.17(M)
63 o-Xylene	106	8.252	8.252 (1.076)	4412	0.50000	0.58(M)



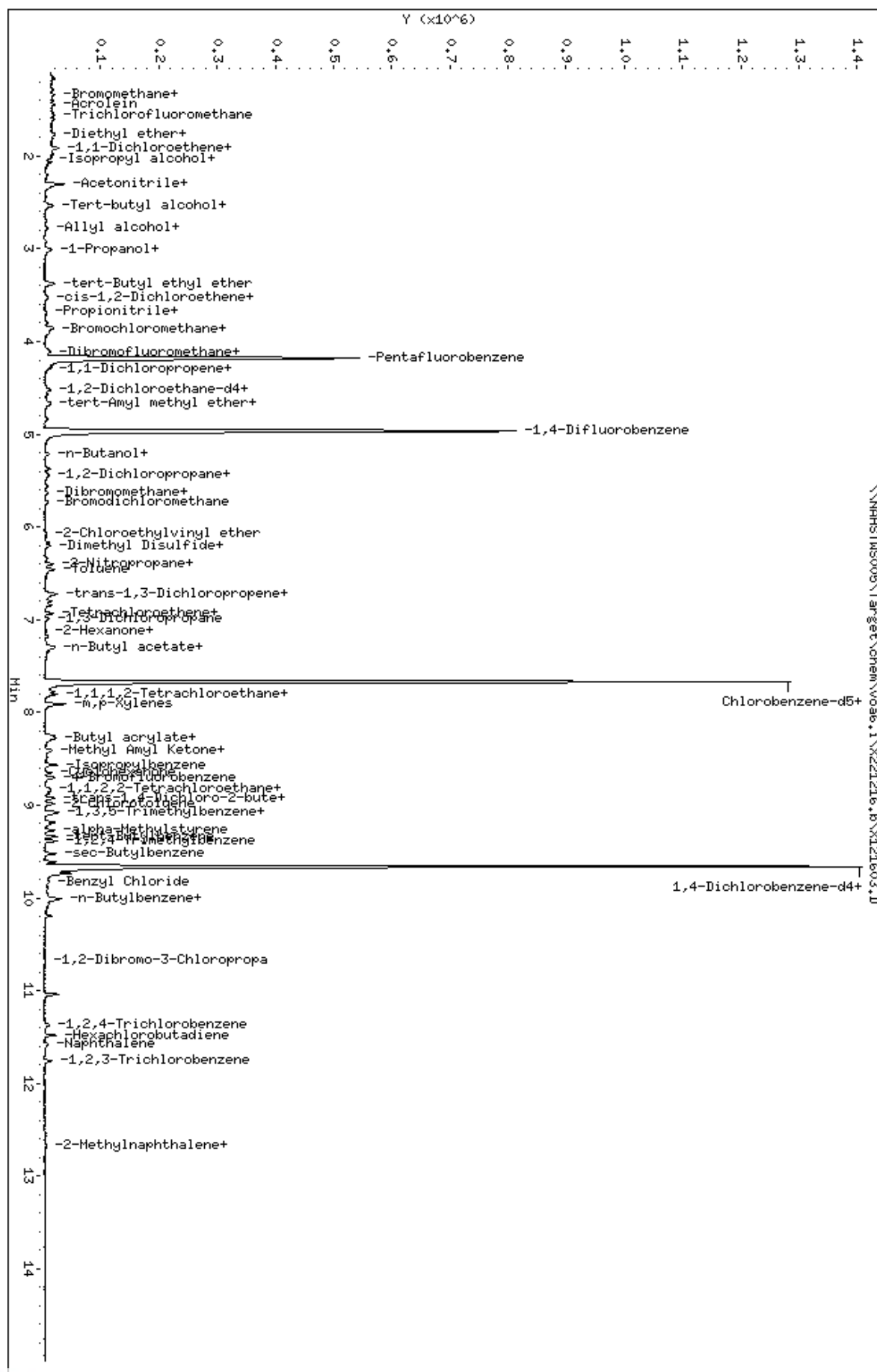
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
64 Styrene	104	8.286	8.286	(1.081)	6634	0.50000	0.52(M)
66 Bromoform	173	8.421	8.421	(1.098)	2013	0.50000	0.56(TM)
67 Isopropylbenzene	105	8.567	8.567	(1.117)	8757	0.50000	0.50(M)
68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	3194	0.50000	0.57(M)
\$ 69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	3870	0.50000	0.71(M)
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	347824	50.00000	
71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2019	0.50000	0.52(M)
73 n-Propylbenzene	91	8.923	8.923	(0.924)	11163	0.50000	0.57(M)
74 Bromobenzene	156	8.818	8.818	(0.913)	3147	0.50000	0.55(M)
75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	7182	0.50000	0.50(M)
76 2-Chlorotoluene	91	8.983	8.983	(0.930)	6718	0.50000	0.53(M)
77 4-Chlorotoluene	91	9.088	9.088	(0.941)	7644	0.50000	0.53(M)
78 tert-Butylbenzene	119	9.339	9.339	(0.967)	6389	0.50000	0.54(M)
79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	8496	0.50000	0.56(M)
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	7938	0.50000	0.51(M)
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	7343	0.50000	0.52(M)
83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	4677	0.50000	0.49(M)
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	5674	0.50000	0.54(M)
86 Benzyl Chloride	91	9.831	9.831	(1.282)	3642	0.50000	3.03
87 n-Butylbenzene	91	10.014	10.014	(1.036)	5149	0.50000	2.14(M)
88 1,2-Dichlorobenzene	146	10.010	10.010	(1.036)	5504	0.50000	0.56(M)
89 1,2-Dibromo-3-Chloropropane	155	10.678	10.678	(1.105)	441	0.50000	0.58(M)
90 1,2,4-Trichlorobenzene	180	11.364	11.364	(1.176)	3187	0.50000	0.51(M)
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	1477	0.50000	0.49(M)
92 Naphthalene	128	11.581	11.581	(1.199)	7025	0.50000	0.50
93 1,2,3-Trichlorobenzene	180	11.765	11.765	(1.218)	3572	0.50000	0.60(M)
M 94 1,2-Dichloroethylene (total)	96				5070	1.00000	
M 95 Xylenes (total)	106				13428	1.50000	
141 Cyclohexane	56	4.114	4.114	(0.985)	2803	0.50000	1.84(M)
138 Freon TF	101	1.917	1.917	(0.459)	1851	0.50000	0.54(M)
147 Methylcyclohexane	55	5.415	5.415	(1.091)	4781	0.50000	0.56(M)
146 Methyl Acetate	43	2.240	2.240	(0.536)	1269	0.50000	0.61(M)

QC Flag Legend

T - Target compound detected outside RT window.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.





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

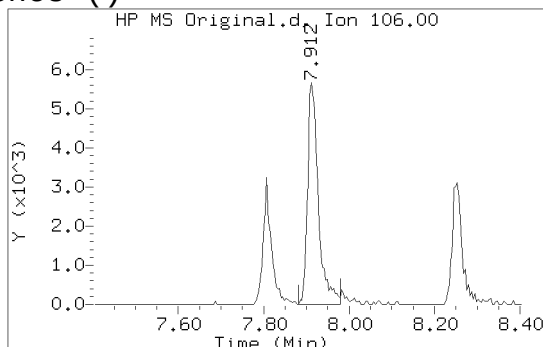


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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

m,p-Xylenes ()

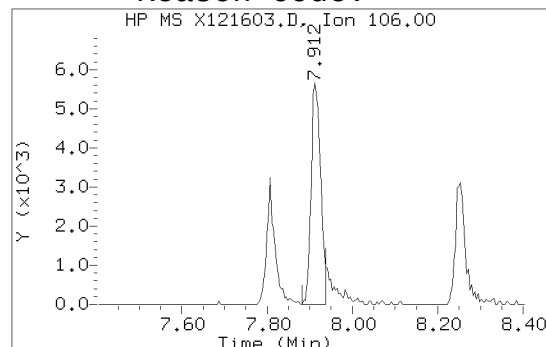
BEFORE

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HEIGHT
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27-Dec-2022
16:03
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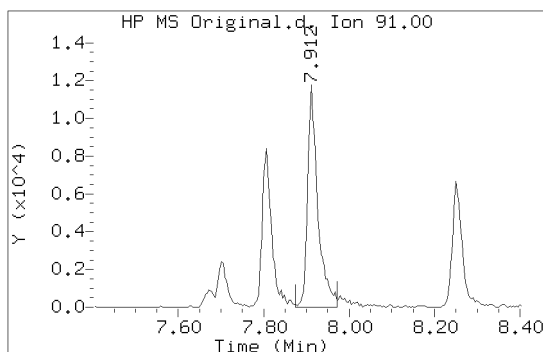
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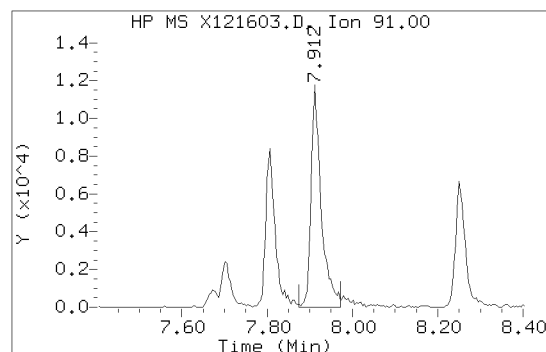
BEFORE

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AREA
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HEIGHT
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27-Dec-2022
16:03
linh
pham



AFTER

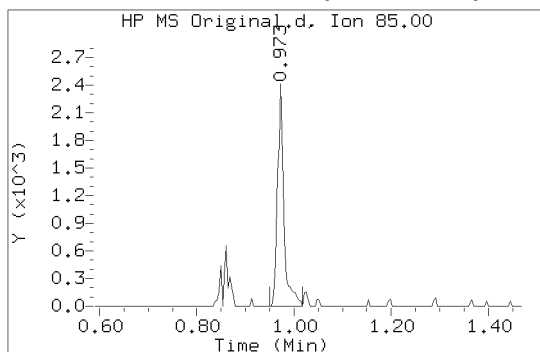
MASS
91
AREA
19887
HEIGHT
11768
27-Dec-2022
16:07
linh
pham



Dichlorodifluoromethane (75-71-8)

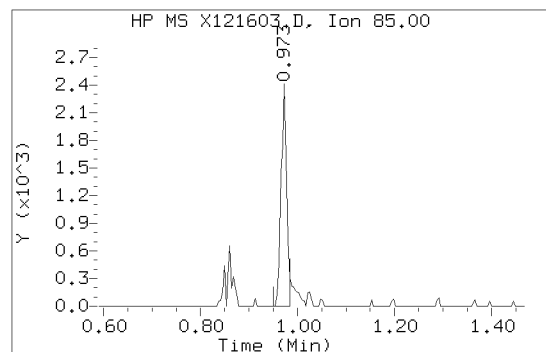
BEFORE

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27-Dec-2022
16:03
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pham



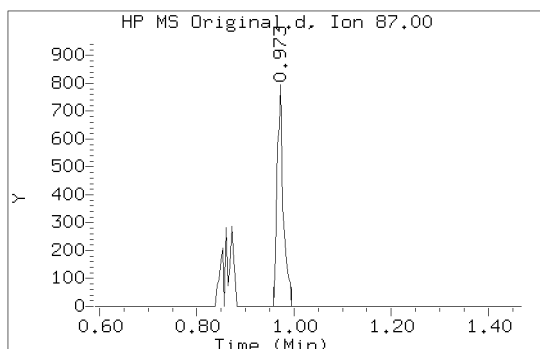
AFTER

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1990
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2413
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16:07
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pham



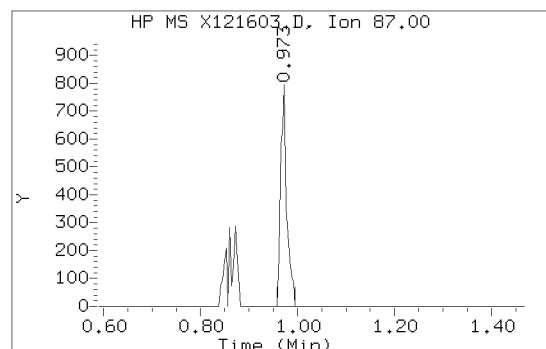
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AFTER

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27-Dec-2022
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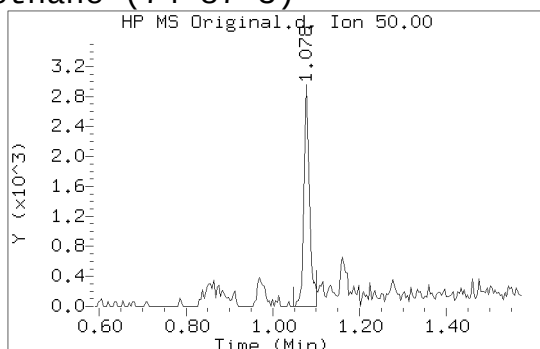


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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Chloromethane (74-87-3)

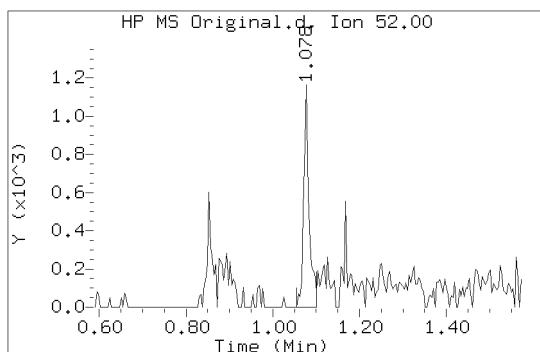
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16:03
linh



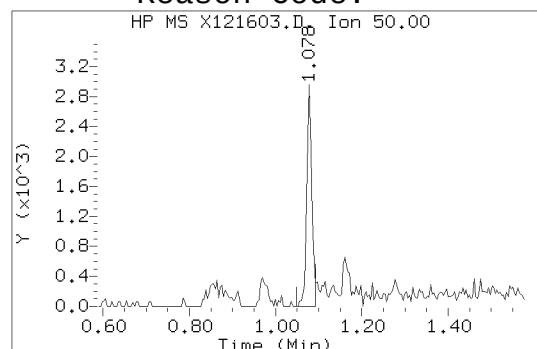
BEFORE

MASS
52
AREA
985
HEIGHT
1164
27-Dec-2022
16:03
linh
pham



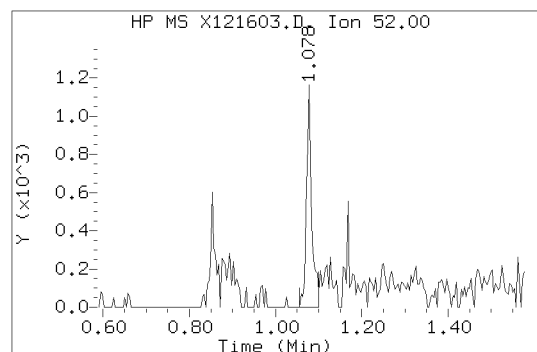
AFTER

MASS
50
AREA
2466
HEIGHT
2959
27-Dec-2022
16:07
linh



AFTER

MASS
52
AREA
985
HEIGHT
1164
27-Dec-2022
16:07
linh
pham

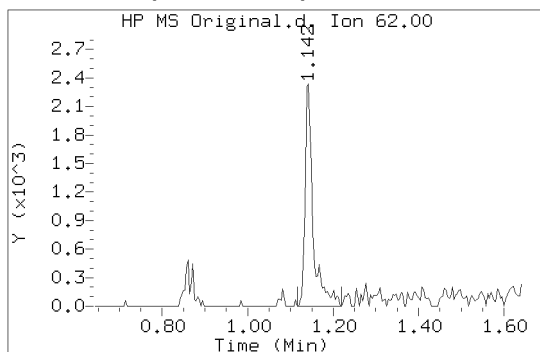


Reason Code:

Vinyl Chloride (75-01-4)

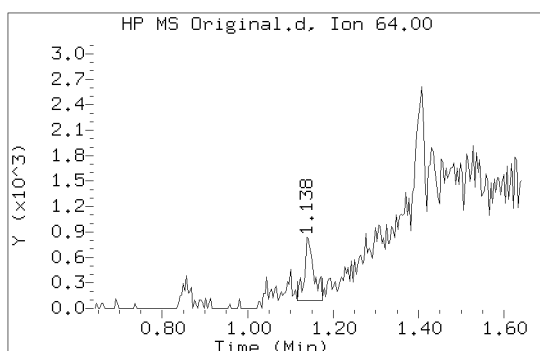
BEFORE

MASS
62
AREA
3132
HEIGHT
2337
27-Dec-2022
16:03
linh
pham



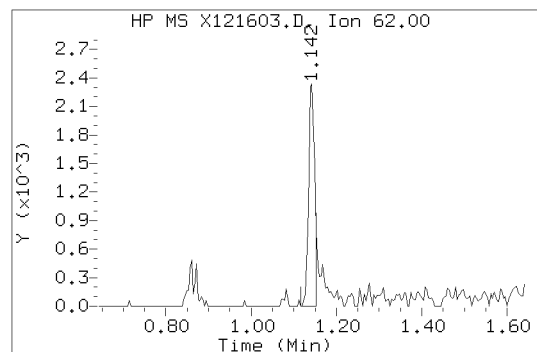
BEFORE

MASS
64
AREA
1174
HEIGHT
750
27-Dec-2022
16:03
linh
pham



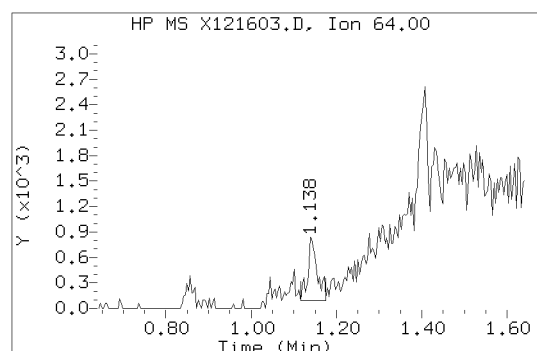
AFTER

MASS
62
AREA
2412
HEIGHT
2337
27-Dec-2022
16:07
linh
pham



AFTER

MASS
64
AREA
1174
HEIGHT
750
27-Dec-2022
16:07
linh
pham

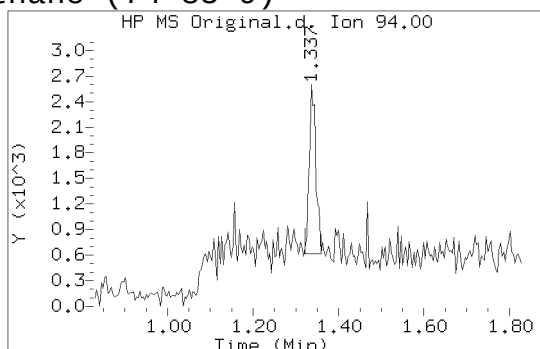


Reason Code:

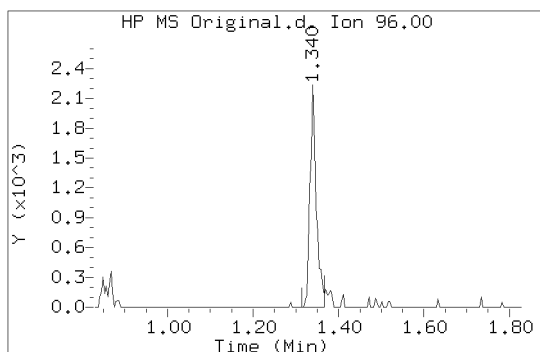
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromomethane (74-83-9)**BEFORE**

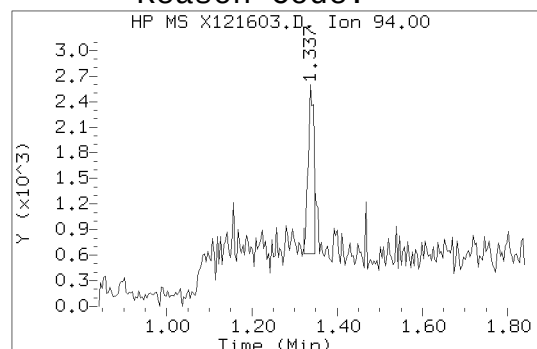
MASS
94
AREA
2146
HEIGHT
1983
27-Dec-2022
16:03
linh

**BEFORE**

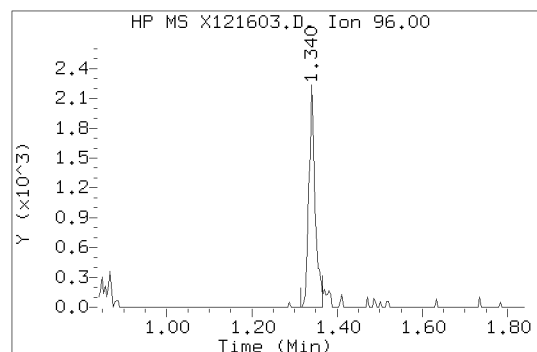
MASS
96
AREA
2304
HEIGHT
2236
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

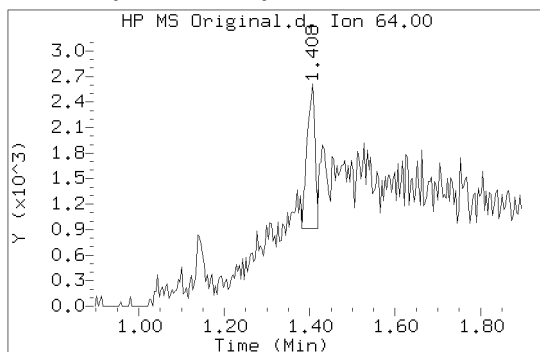
MASS
94
AREA
1893
HEIGHT
1983
27-Dec-2022
16:07
linh

**AFTER**

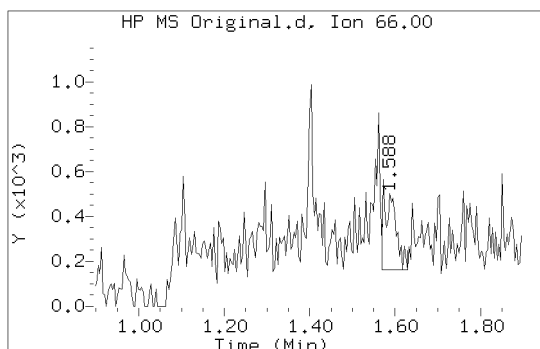
MASS
96
AREA
2304
HEIGHT
2236
27-Dec-2022
16:07
linh
pham

**Chloroethane (75-00-3)****BEFORE**

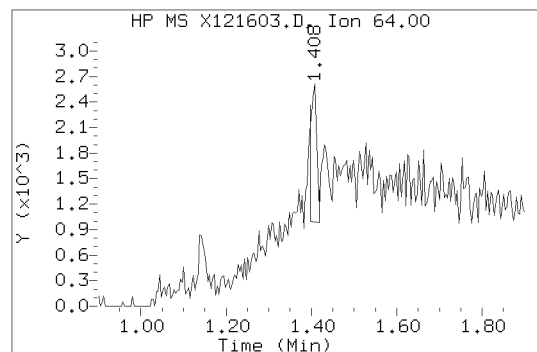
MASS
64
AREA
2196
HEIGHT
1702
27-Dec-2022
16:03
linh
pham

**BEFORE**

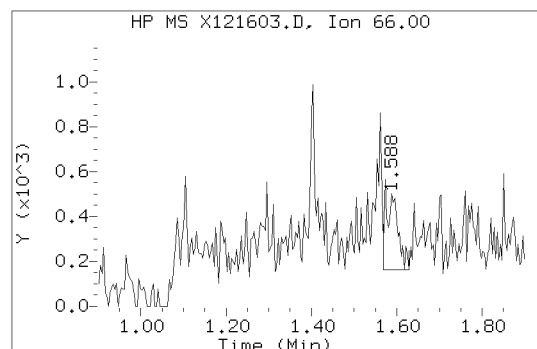
MASS
66
AREA
677
HEIGHT
340
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

MASS
64
AREA
1653
HEIGHT
1624
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
66
AREA
677
HEIGHT
340
27-Dec-2022
16:07
linh
pham

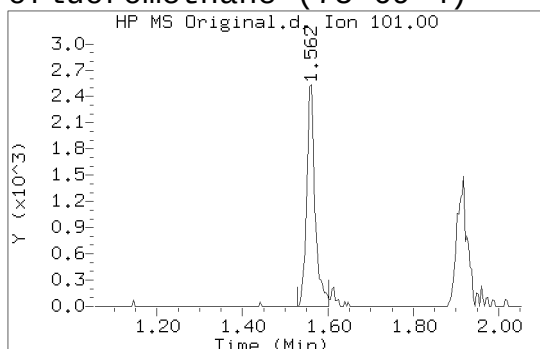


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Trichlorofluoromethane (75-69-4)

BEFORE

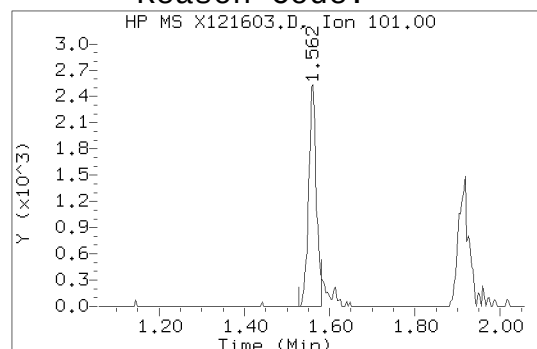
MASS
101
AREA
3530
HEIGHT
2534
27-Dec-2022
16:03
linh



AFTER

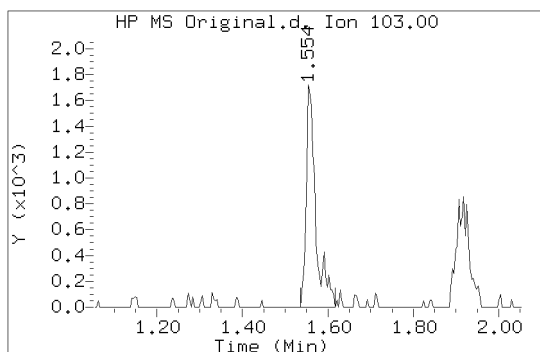
MASS
101
AREA
3286
HEIGHT
2534
27-Dec-2022
16:07
linh

Reason Code:



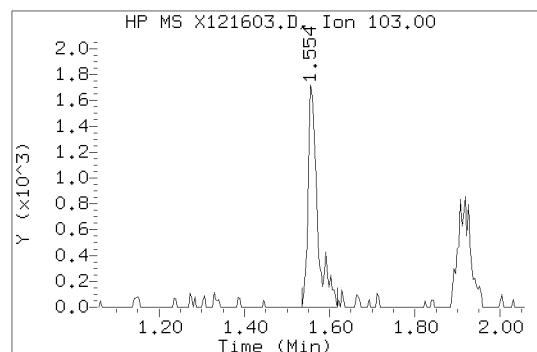
BEFORE

MASS
103
AREA
2708
HEIGHT
1720
27-Dec-2022
16:03
linh
pham



AFTER

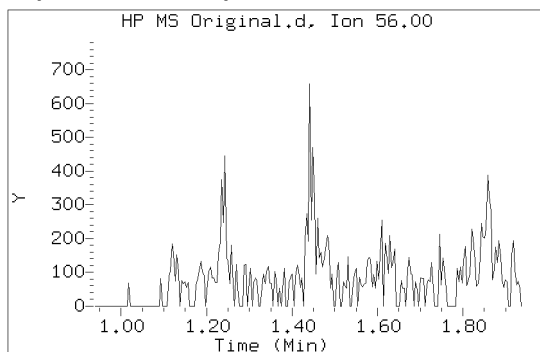
MASS
103
AREA
2708
HEIGHT
1720
27-Dec-2022
16:07
linh
pham



Acrolein (107-02-8)

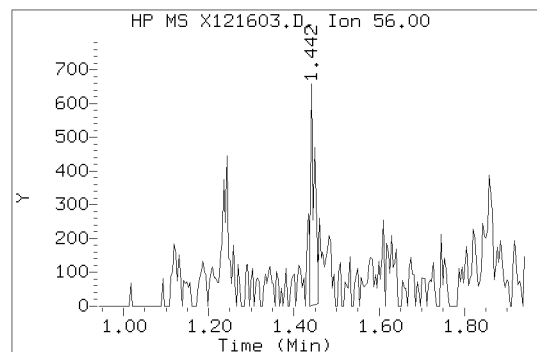
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



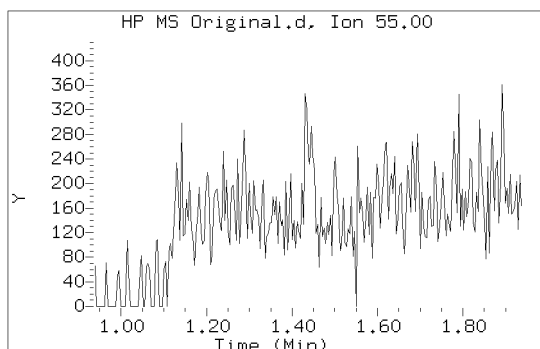
AFTER

MASS
56
AREA
440
HEIGHT
656
27-Dec-2022
16:07
linh
pham



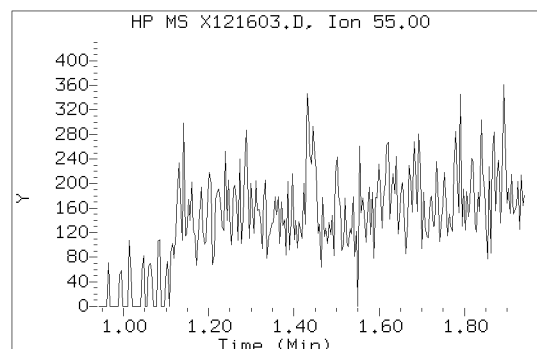
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

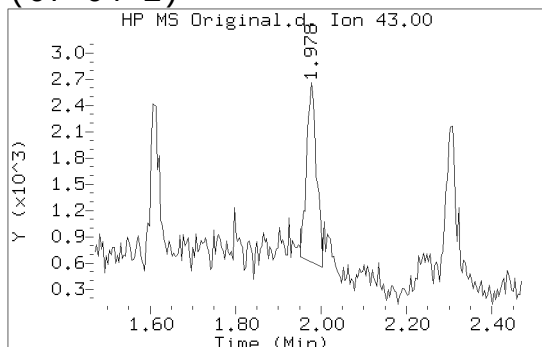
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



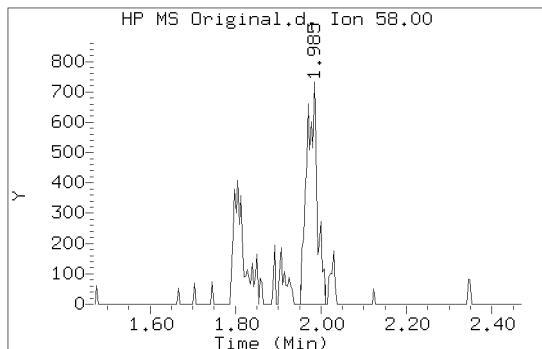
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Acetone (67-64-1)**BEFORE**

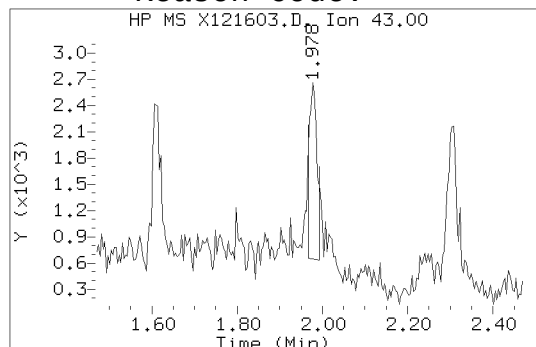
MASS
43
AREA
3388
HEIGHT
2046
27-Dec-2022
16:03
linh

**BEFORE**

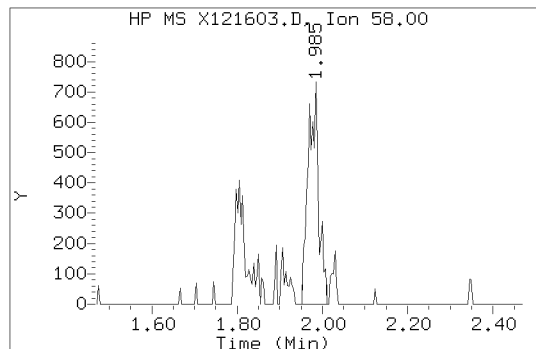
MASS
58
AREA
1264
HEIGHT
733
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

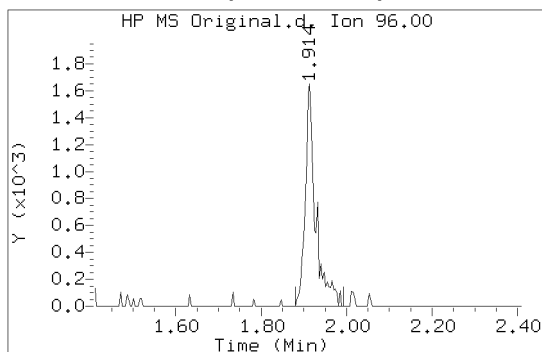
MASS
43
AREA
2669
HEIGHT
2015
27-Dec-2022
16:07
linh

**AFTER**

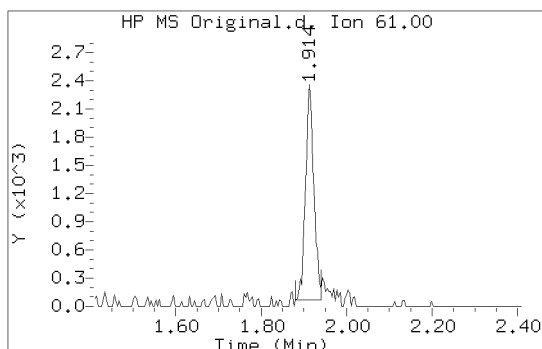
MASS
58
AREA
1264
HEIGHT
733
27-Dec-2022
16:07
linh
pham

**1,1-Dichloroethene (75-35-4)****BEFORE**

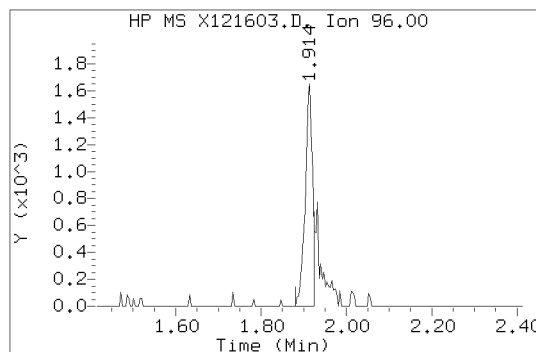
MASS
96
AREA
2836
HEIGHT
1651
27-Dec-2022
16:03
linh
pham

**BEFORE**

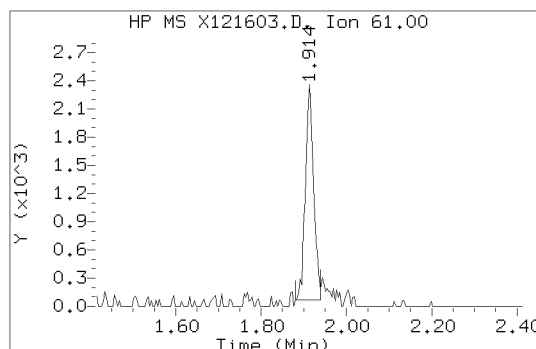
MASS
61
AREA
3197
HEIGHT
2293
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

MASS
96
AREA
2037
HEIGHT
1651
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
61
AREA
3197
HEIGHT
2293
27-Dec-2022
16:07
linh
pham

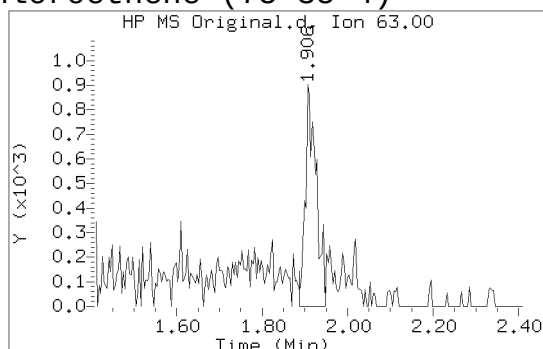


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethene (75-35-4)

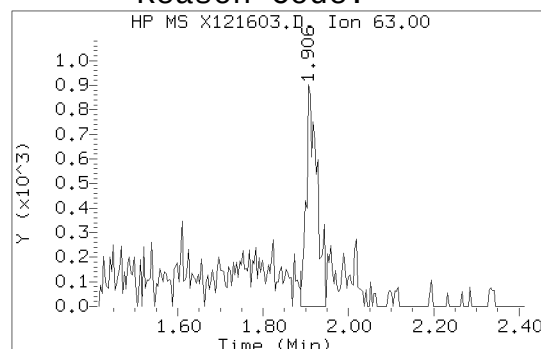
BEFORE

MASS
63
AREA
1607
HEIGHT
902
27-Dec-2022
16:03
linh
pham



AFTER

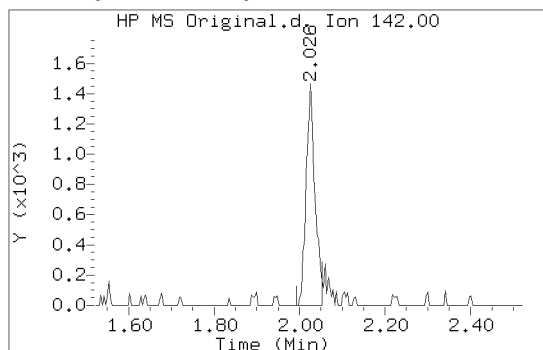
MASS
63
AREA
1607
HEIGHT
902
27-Dec-2022
16:07
linh
pham



Iodomethane (74-88-4)

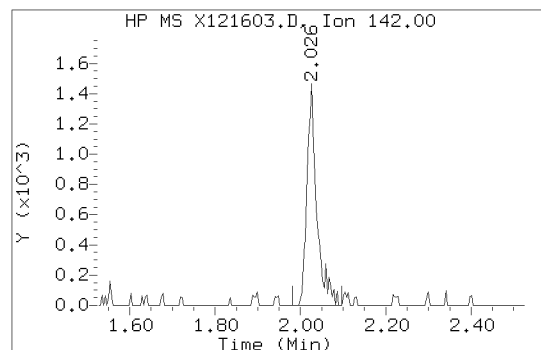
BEFORE

MASS
142
AREA
2166
HEIGHT
1466
27-Dec-2022
16:03
linh
pham



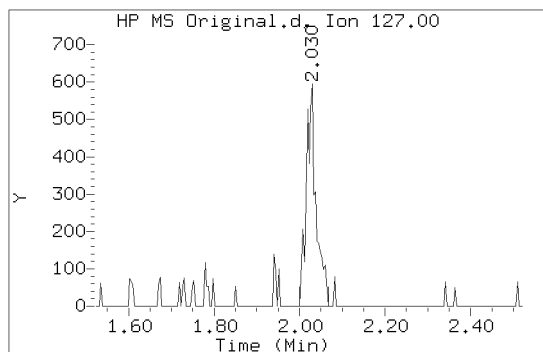
AFTER

MASS
142
AREA
2397
HEIGHT
1466
27-Dec-2022
16:07
linh
pham



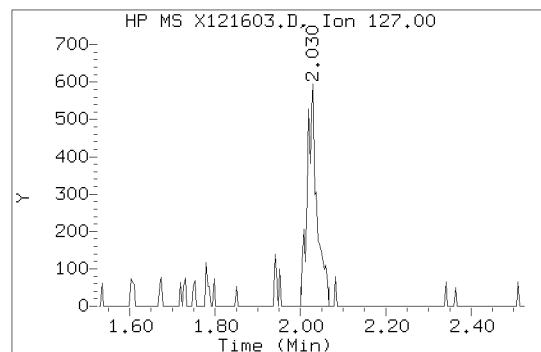
BEFORE

MASS
127
AREA
958
HEIGHT
595
27-Dec-2022
16:03
linh
pham



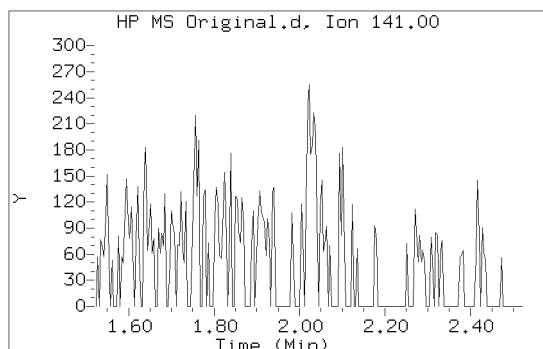
AFTER

MASS
127
AREA
958
HEIGHT
595
27-Dec-2022
16:07
linh
pham



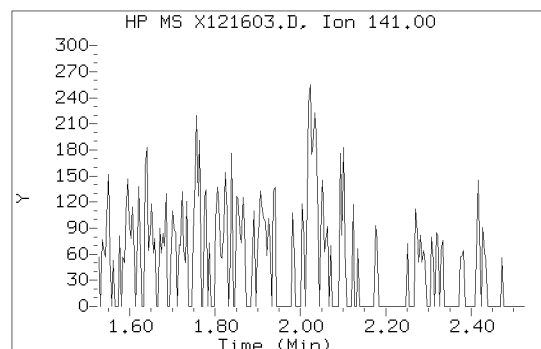
BEFORE

MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

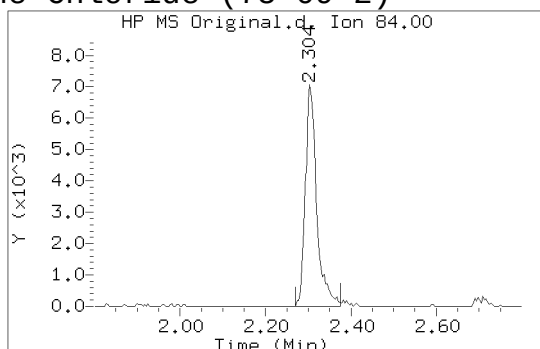


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

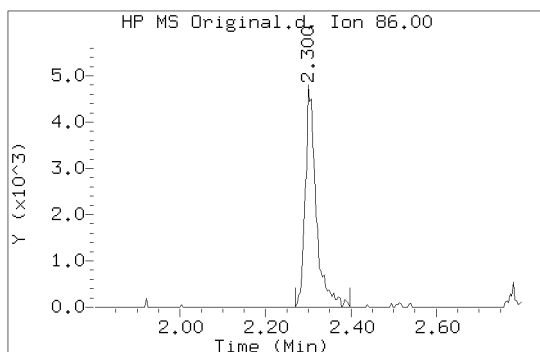
BEFORE

MASS
84
AREA
13307
HEIGHT
7067
27-Dec-2022
16:03
linh



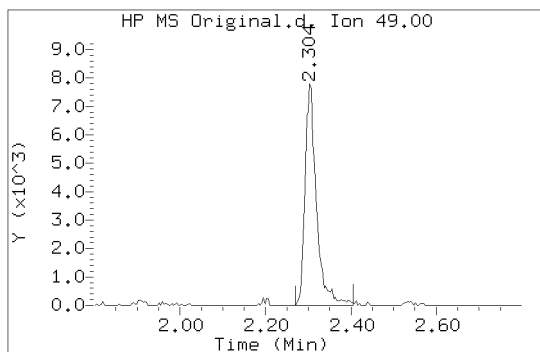
BEFORE

MASS
86
AREA
8692
HEIGHT
4802
27-Dec-2022
16:03
linh
pham



BEFORE

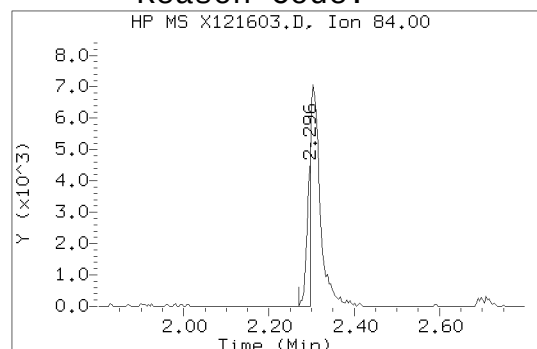
MASS
49
AREA
14733
HEIGHT
7803
27-Dec-2022
16:03
linh
pham



Reason Code:

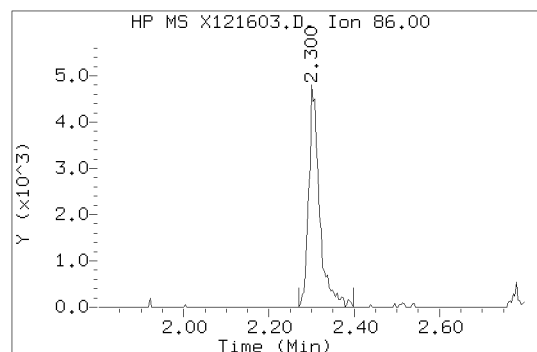
AFTER

MASS
84
AREA
2938
HEIGHT
4595
27-Dec-2022
16:07
linh



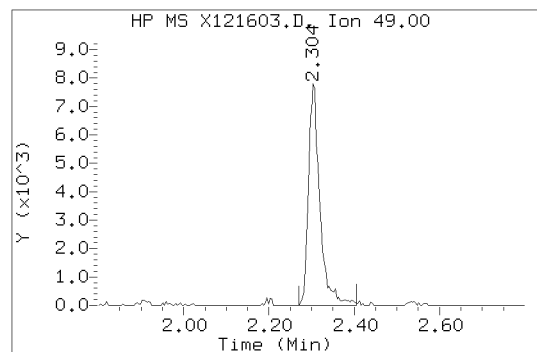
AFTER

MASS
86
AREA
8692
HEIGHT
4802
27-Dec-2022
16:07
linh
pham



AFTER

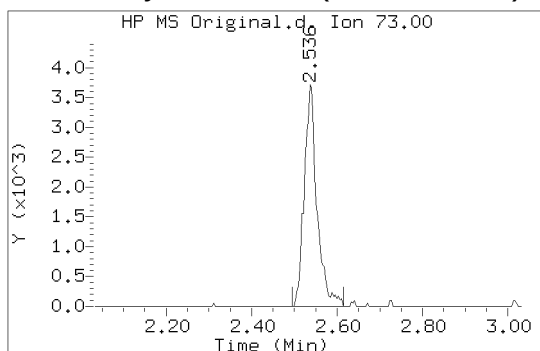
MASS
49
AREA
14733
HEIGHT
7803
27-Dec-2022
16:07
linh
pham



Methyl tert-butyl ether (1634-04-4)

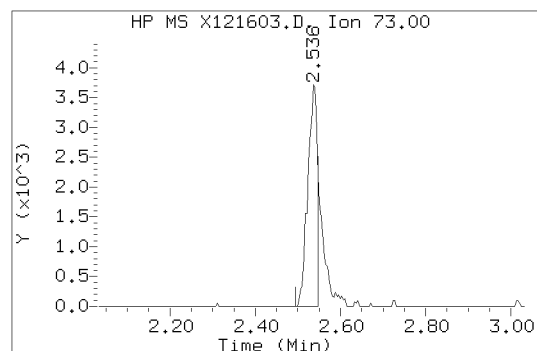
BEFORE

MASS
73
AREA
7826
HEIGHT
3716
27-Dec-2022
16:03
linh
pham



AFTER

MASS
73
AREA
5841
HEIGHT
3716
27-Dec-2022
16:07
linh
pham

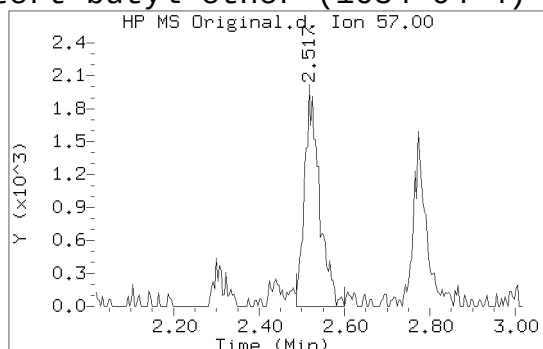


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl tert-butyl ether (1634-04-4)

BEFORE

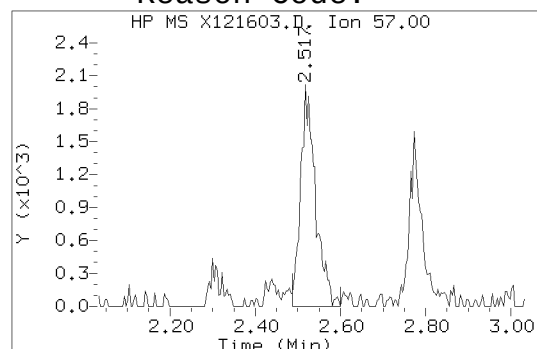
MASS
57
AREA
4915
HEIGHT
2019
27-Dec-2022
16:03
linh
pham



AFTER

MASS
57
AREA
4915
HEIGHT
2019
27-Dec-2022
16:07
linh
pham

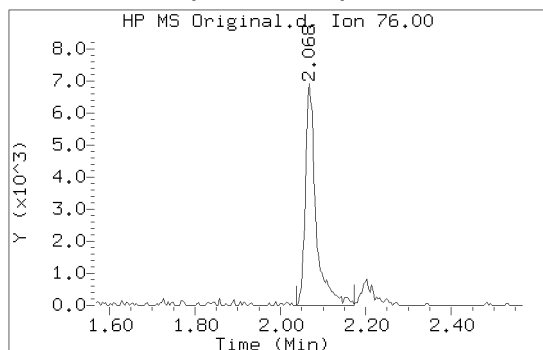
Reason Code:



Carbon Disulfide (75-15-0)

BEFORE

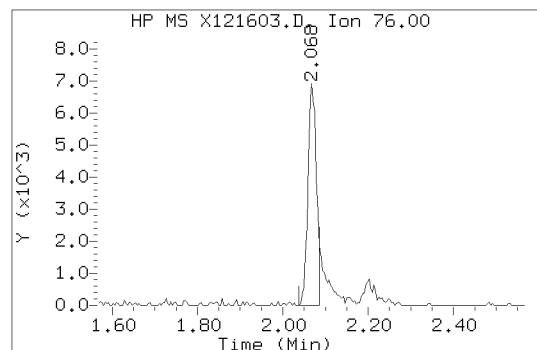
MASS
76
AREA
12313
HEIGHT
6923
27-Dec-2022
16:03
linh
pham



AFTER

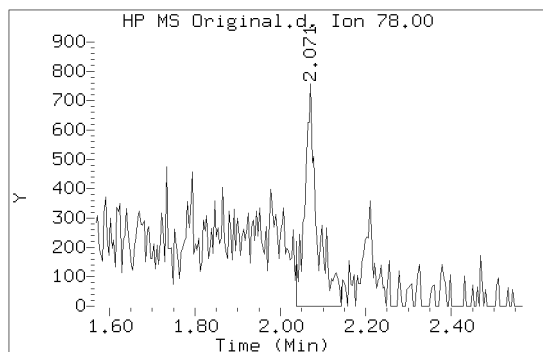
MASS
76
AREA
9921
HEIGHT
6923
27-Dec-2022
16:07
linh
pham

Reason Code:



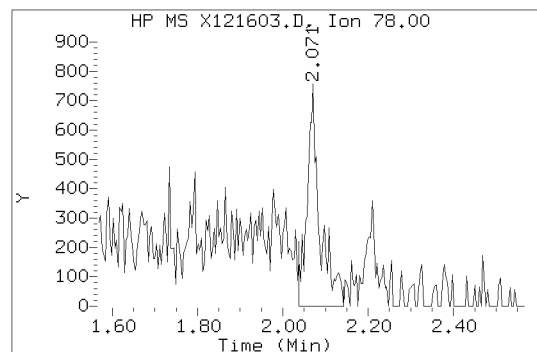
BEFORE

MASS
78
AREA
1586
HEIGHT
757
27-Dec-2022
16:03
linh
pham



AFTER

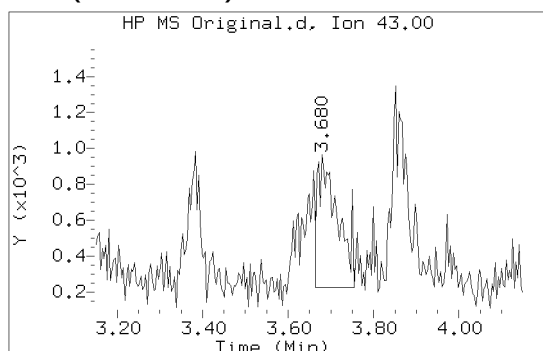
MASS
78
AREA
1586
HEIGHT
757
27-Dec-2022
16:07
linh
pham



2-Butanone (78-93-3)

BEFORE

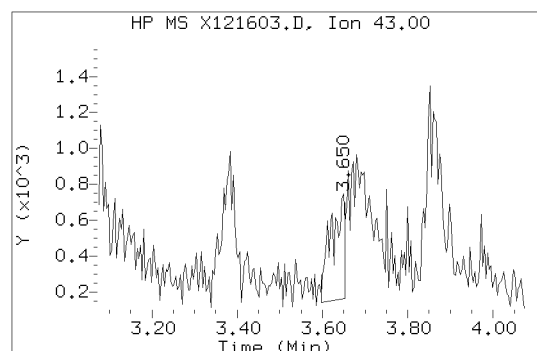
MASS
43
AREA
2415
HEIGHT
742
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
1292
HEIGHT
587
27-Dec-2022
16:07
linh
pham

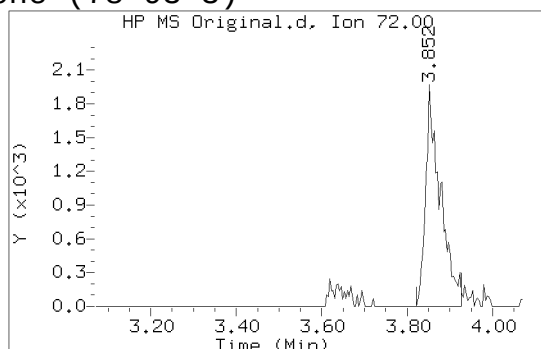
Reason Code:



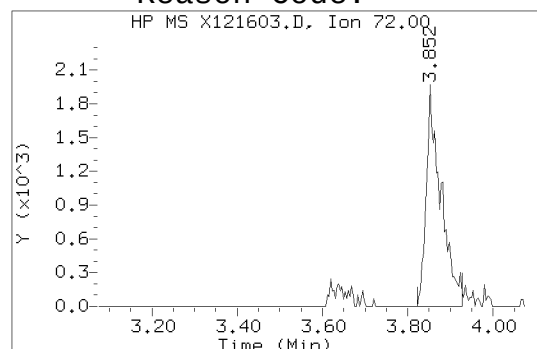
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)**BEFORE**

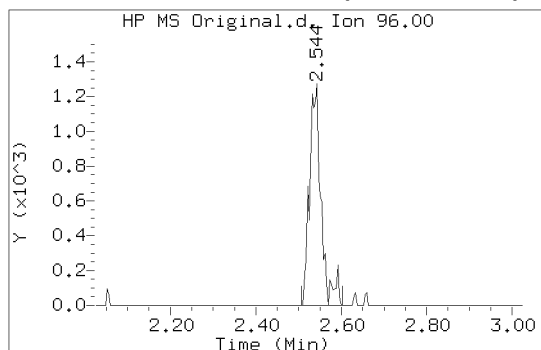
MASS
72
AREA
4698
HEIGHT
1970
27-Dec-2022
16:03
linh
pham

**AFTER**

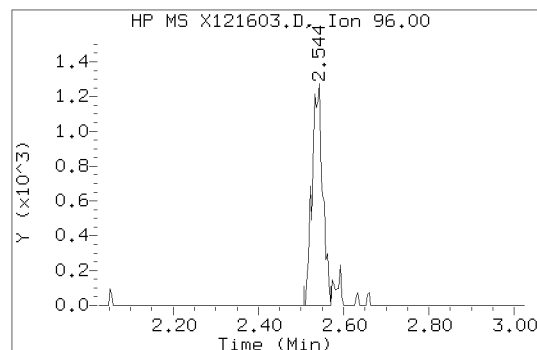
MASS
72
AREA
4698
HEIGHT
1970
27-Dec-2022
16:07
linh
pham

**trans-1,2-Dichloroethene (156-60-5)****BEFORE**

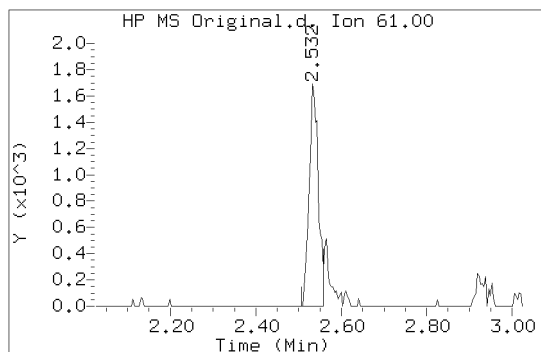
MASS
96
AREA
2404
HEIGHT
1274
27-Dec-2022
16:03
linh
pham

**AFTER**

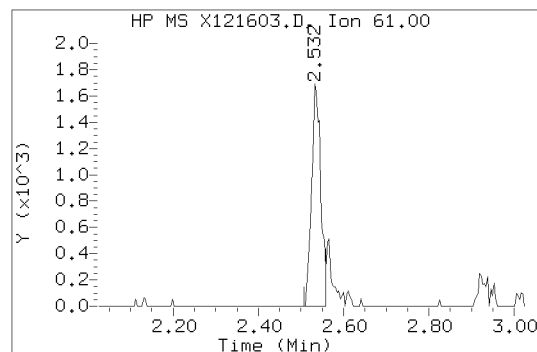
MASS
96
AREA
2218
HEIGHT
1274
27-Dec-2022
16:07
linh
pham

**BEFORE**

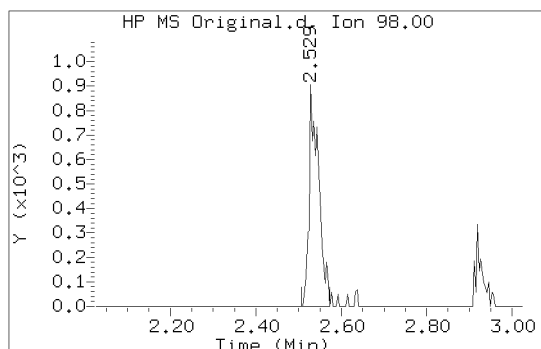
MASS
61
AREA
2571
HEIGHT
1692
27-Dec-2022
16:03
linh
pham

**AFTER**

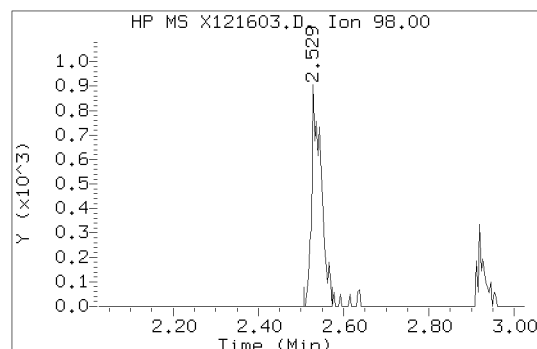
MASS
61
AREA
2571
HEIGHT
1692
27-Dec-2022
16:07
linh
pham

**BEFORE**

MASS
98
AREA
1412
HEIGHT
906
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
98
AREA
1412
HEIGHT
906
27-Dec-2022
16:07
linh
pham

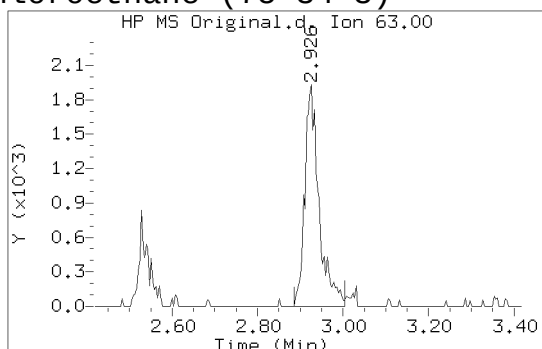


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethane (75-34-3)

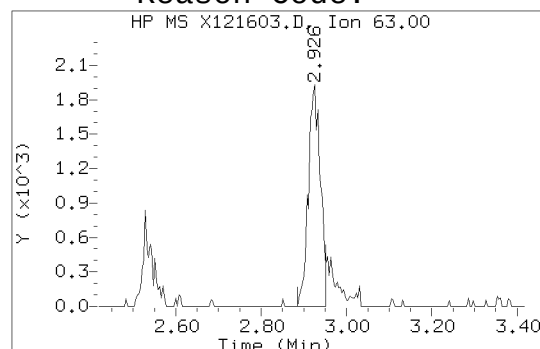
BEFORE

MASS
63
AREA
4504
HEIGHT
1931
27-Dec-2022
16:03
linh
pham



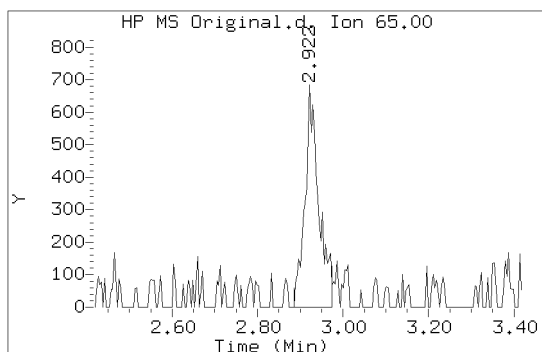
AFTER

MASS
63
AREA
3874
HEIGHT
1931
27-Dec-2022
16:07
linh
pham



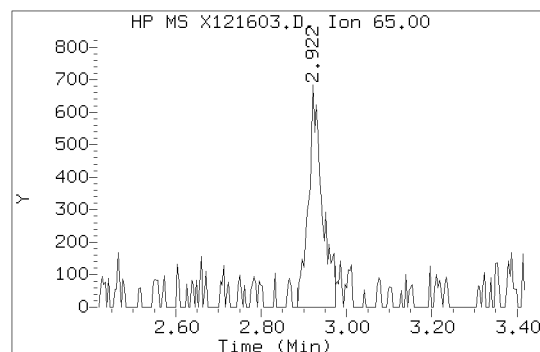
BEFORE

MASS
65
AREA
1548
HEIGHT
684
27-Dec-2022
16:03
linh
pham



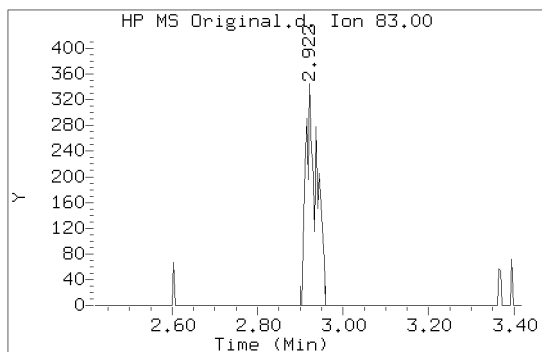
AFTER

MASS
65
AREA
1548
HEIGHT
684
27-Dec-2022
16:07
linh
pham



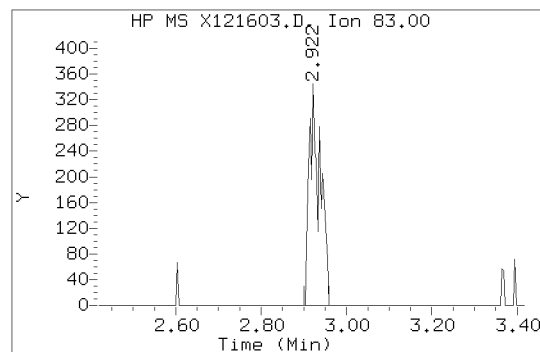
BEFORE

MASS
83
AREA
618
HEIGHT
345
27-Dec-2022
16:03
linh
pham



AFTER

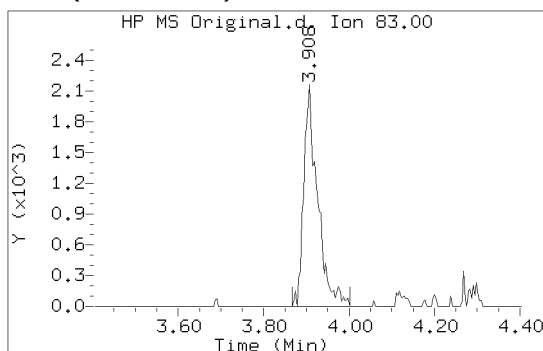
MASS
83
AREA
618
HEIGHT
345
27-Dec-2022
16:07
linh
pham



Chloroform (67-66-3)

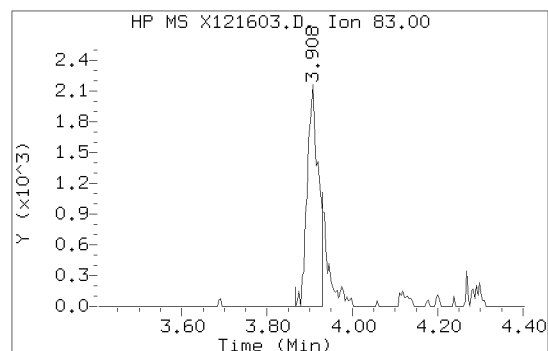
BEFORE

MASS
83
AREA
4949
HEIGHT
2160
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
4040
HEIGHT
2160
27-Dec-2022
16:07
linh
pham

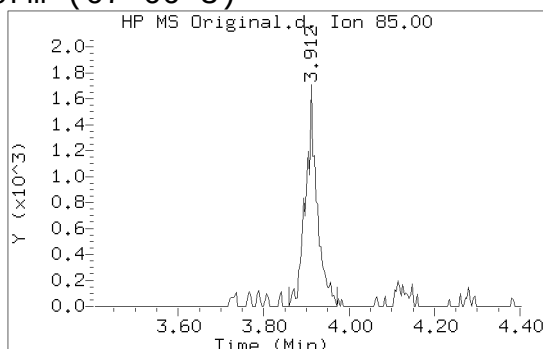


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 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

Chloroform (67-66-3)

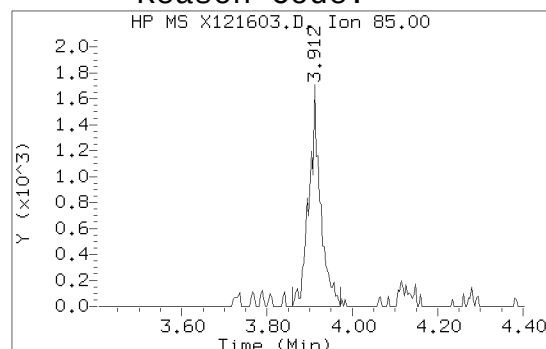
BEFORE

MASS
85
AREA
3222
HEIGHT
1709
27-Dec-2022
16:03
linh
pham



AFTER

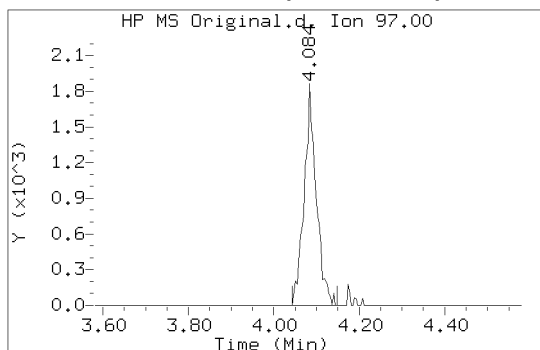
MASS
85
AREA
3222
HEIGHT
1709
27-Dec-2022
16:07
linh
pham



1,1,1-Trichloroethane (71-55-6)

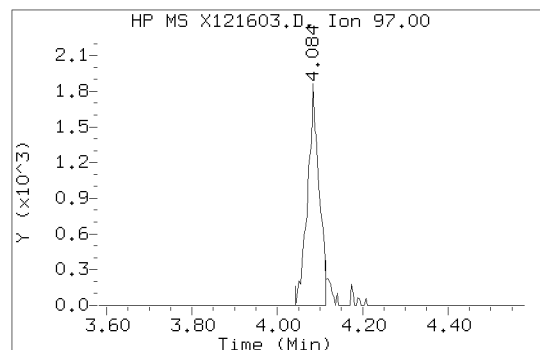
BEFORE

MASS
97
AREA
3710
HEIGHT
1863
27-Dec-2022
16:03
linh
pham



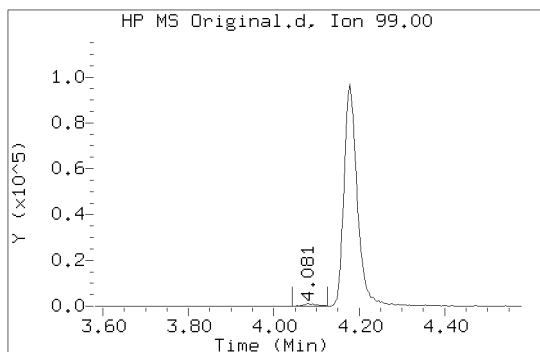
AFTER

MASS
97
AREA
3512
HEIGHT
1863
27-Dec-2022
16:07
linh
pham



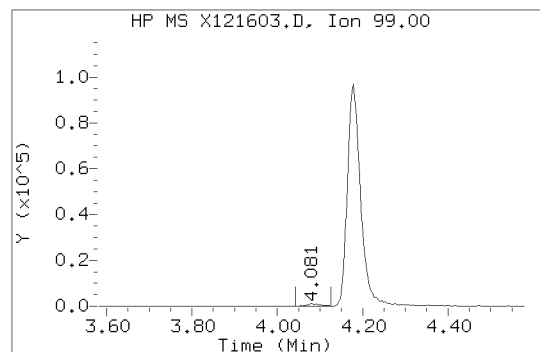
BEFORE

MASS
99
AREA
2299
HEIGHT
1029
27-Dec-2022
16:03
linh
pham



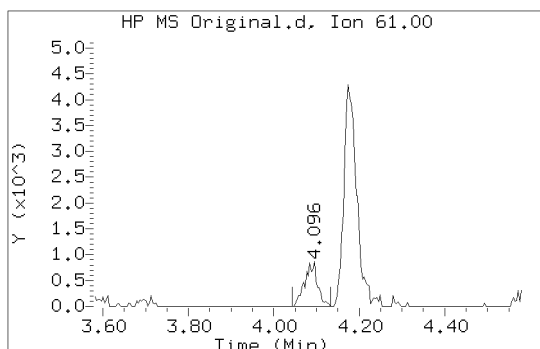
AFTER

MASS
99
AREA
2299
HEIGHT
1029
27-Dec-2022
16:07
linh
pham



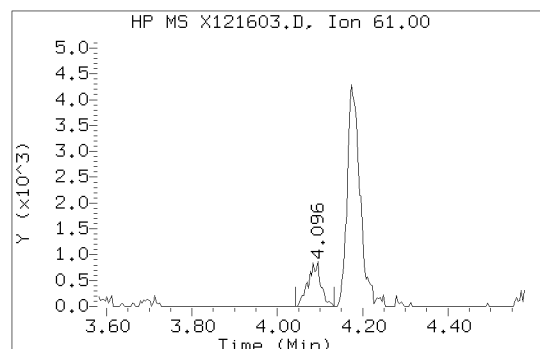
BEFORE

MASS
61
AREA
1801
HEIGHT
872
27-Dec-2022
16:03
linh
pham



AFTER

MASS
61
AREA
1801
HEIGHT
872
27-Dec-2022
16:07
linh
pham

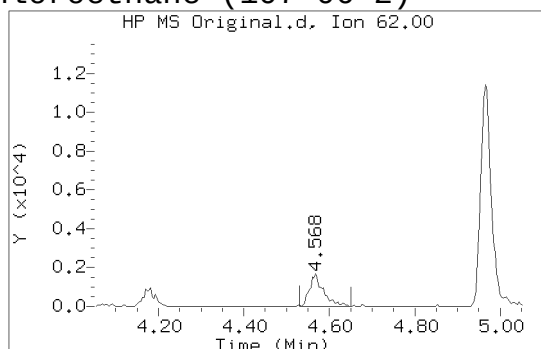


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 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

1,2-Dichloroethane (107-06-2)

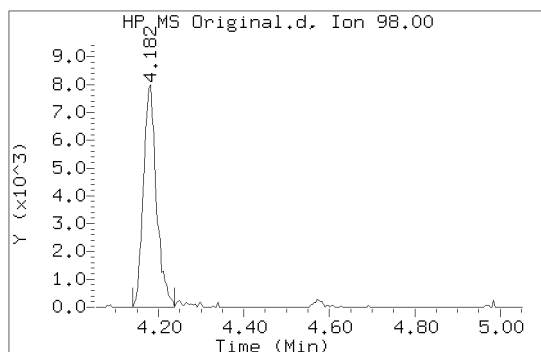
BEFORE

MASS
62
AREA
3822
HEIGHT
1678
27-Dec-2022
16:03
linh



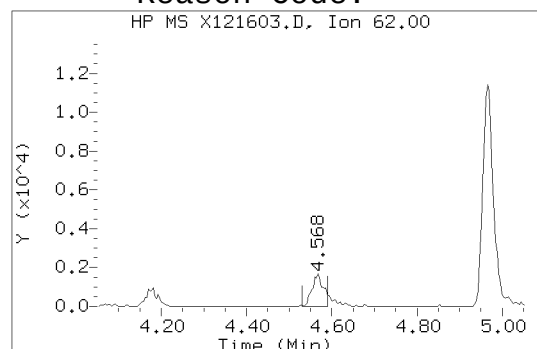
BEFORE

MASS
98
AREA
16918
HEIGHT
7987
27-Dec-2022
16:03
linh
pham



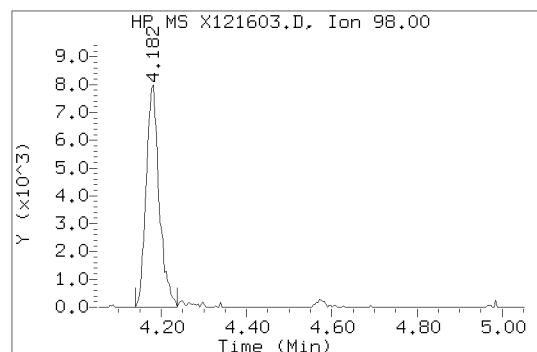
AFTER

MASS
62
AREA
3129
HEIGHT
1678
27-Dec-2022
16:07
linh



AFTER

MASS
98
AREA
16918
HEIGHT
7987
27-Dec-2022
16:07
linh
pham

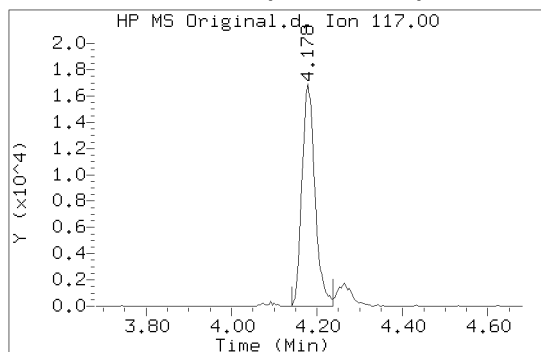


Reason Code:

Carbon Tetrachloride (56-23-5)

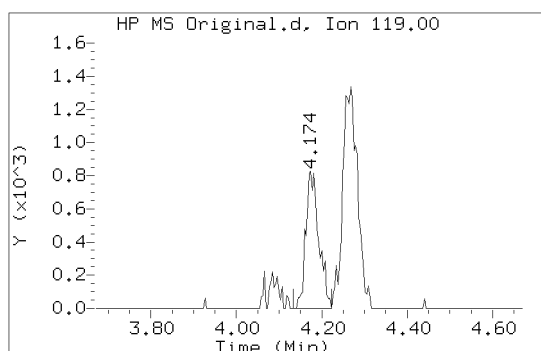
BEFORE

MASS
117
AREA
36559
HEIGHT
16920
27-Dec-2022
16:03
linh
pham



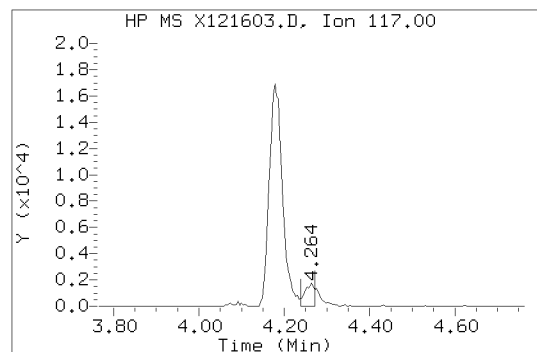
BEFORE

MASS
119
AREA
1780
HEIGHT
826
27-Dec-2022
16:03
linh
pham



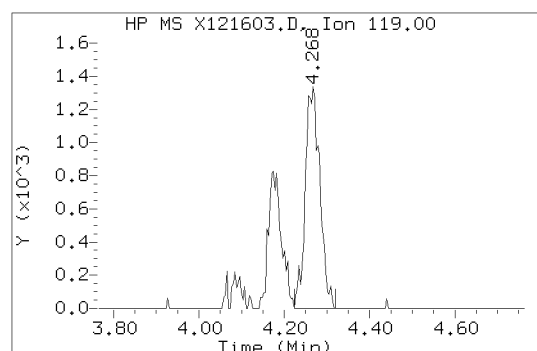
AFTER

MASS
117
AREA
2763
HEIGHT
1744
27-Dec-2022
16:07
linh
pham



AFTER

MASS
119
AREA
3227
HEIGHT
1337
27-Dec-2022
16:07
linh
pham



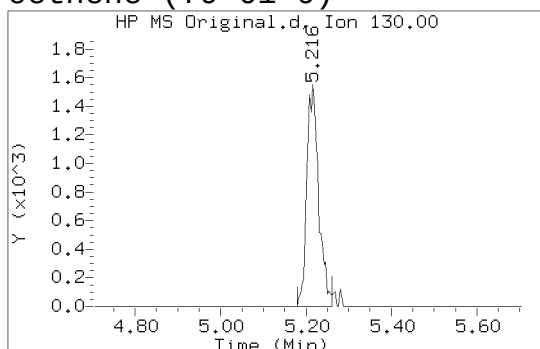
Reason Code:

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

Trichloroethene (79-01-6)

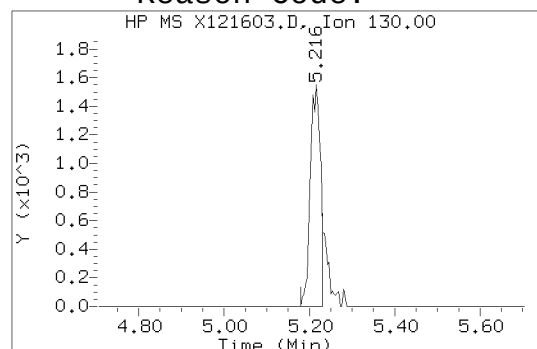
BEFORE

MASS
130
AREA
3011
HEIGHT
1551
27-Dec-2022
16:03
linh
pham



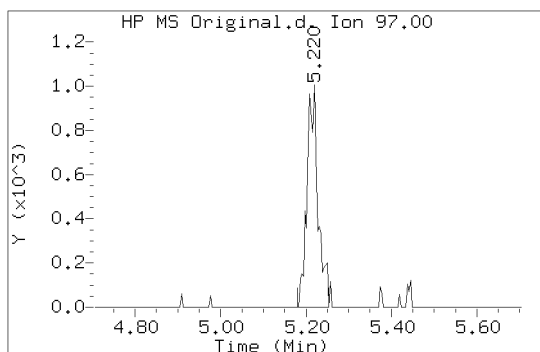
AFTER

MASS
130
AREA
2583
HEIGHT
1551
27-Dec-2022
16:07
linh
pham



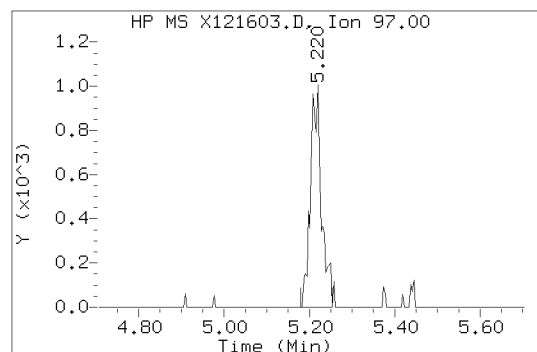
BEFORE

MASS
97
AREA
1808
HEIGHT
1006
27-Dec-2022
16:03
linh
pham



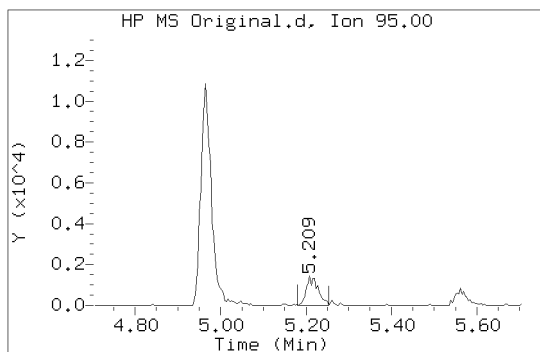
AFTER

MASS
97
AREA
1808
HEIGHT
1006
27-Dec-2022
16:07
linh
pham



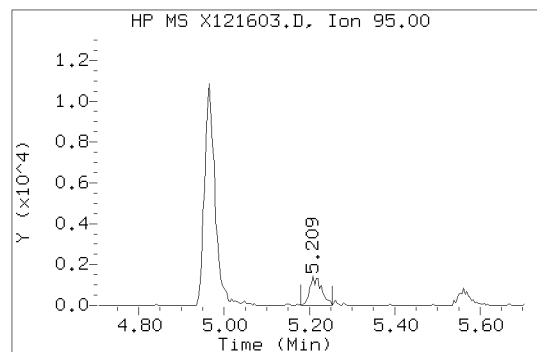
BEFORE

MASS
95
AREA
2693
HEIGHT
1431
27-Dec-2022
16:03
linh
pham



AFTER

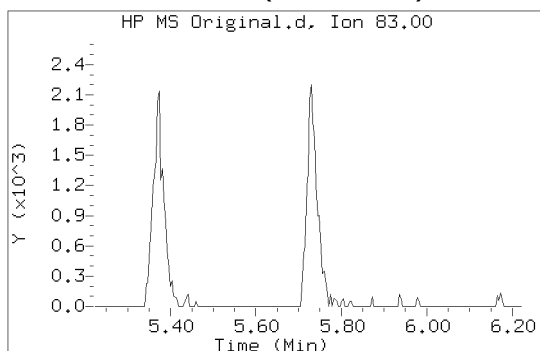
MASS
95
AREA
2693
HEIGHT
1431
27-Dec-2022
16:07
linh
pham



Bromodichloromethane (75-27-4)

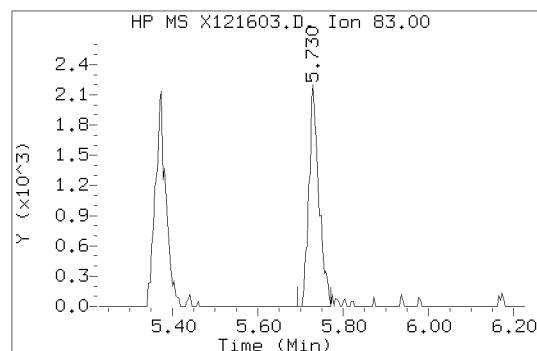
BEFORE

MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
3650
HEIGHT
2201
27-Dec-2022
16:07
linh
pham



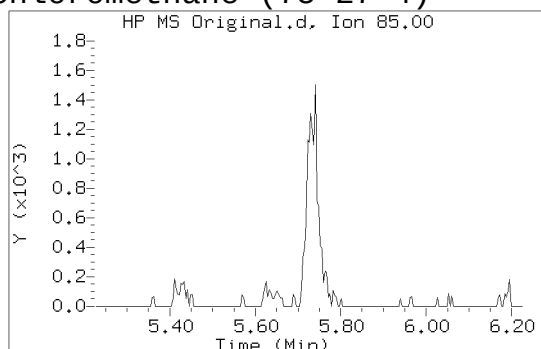
Reason Code:



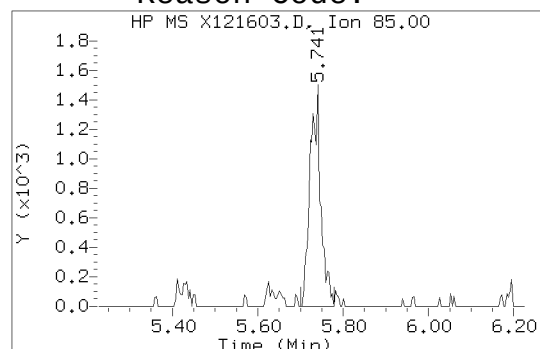
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromodichloromethane (75-27-4)**BEFORE**

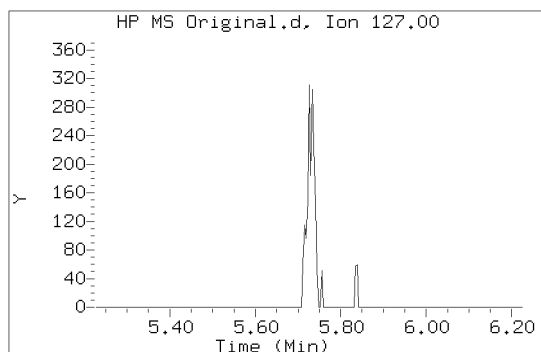
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh

**AFTER**

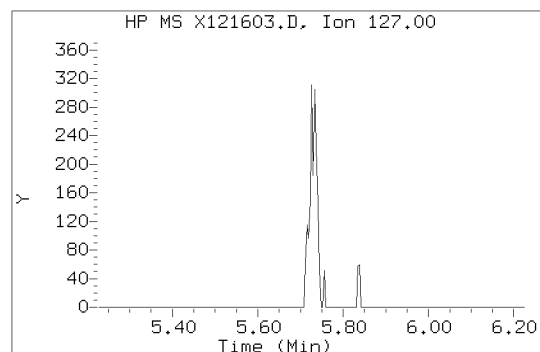
MASS
85
AREA
2639
HEIGHT
1503
27-Dec-2022
16:07
linh

Reason Code:**BEFORE**

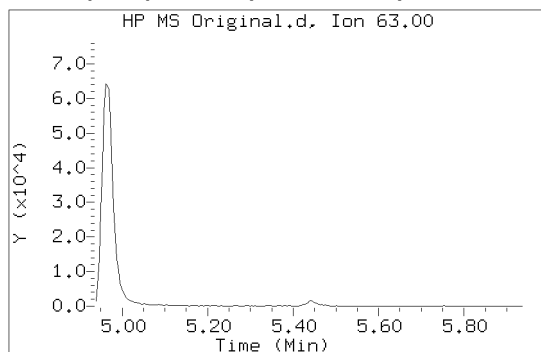
MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

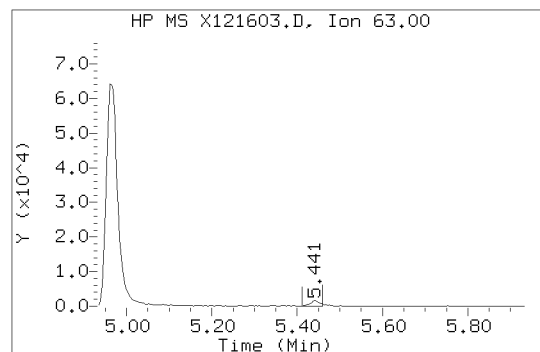
MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

**1,2-Dichloropropane (78-87-5)****BEFORE**

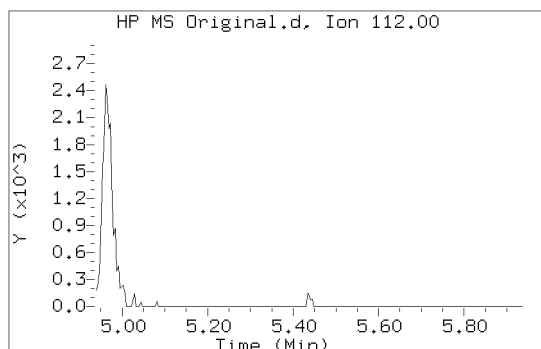
MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

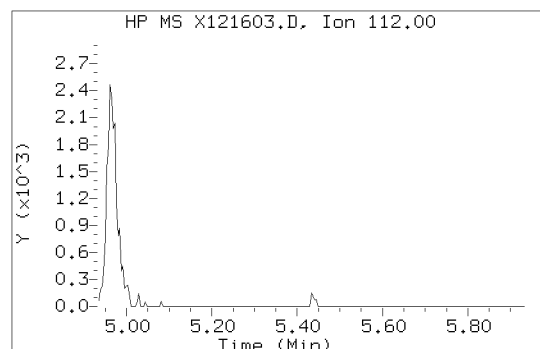
MASS
63
AREA
2449
HEIGHT
1587
27-Dec-2022
16:07
linh
pham

Reason Code:**BEFORE**

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

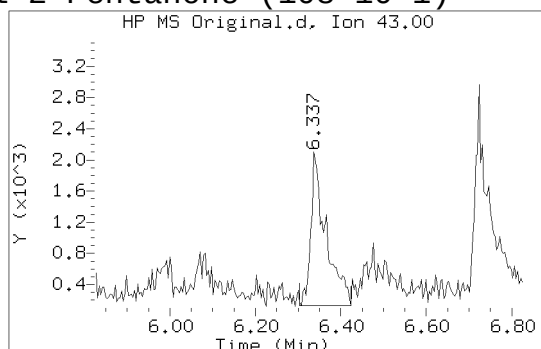


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

4-Methyl-2-Pentanone (108-10-1)

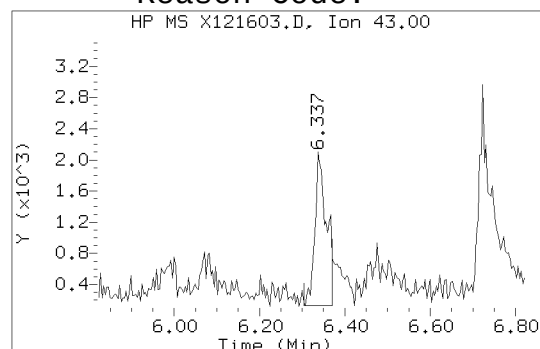
BEFORE

MASS
43
AREA
4873
HEIGHT
1970
27-Dec-2022
16:03
linh



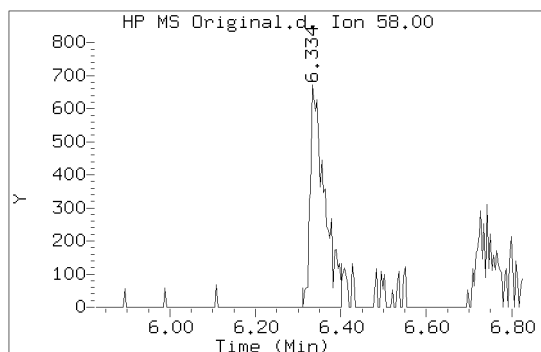
AFTER

MASS
43
AREA
3741
HEIGHT
1970
27-Dec-2022
16:07
linh



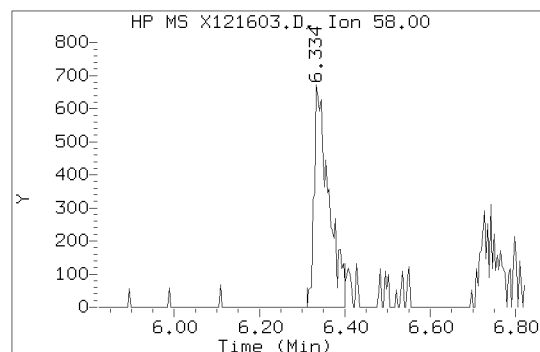
BEFORE

MASS
58
AREA
1585
HEIGHT
672
27-Dec-2022
16:03
linh
pham



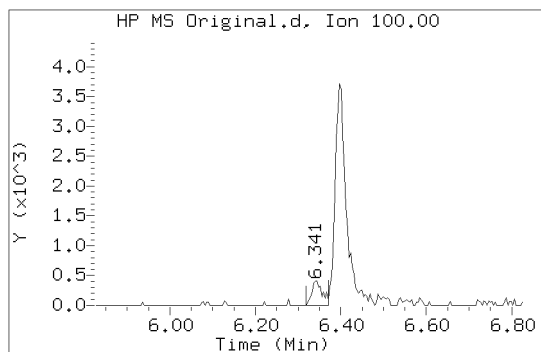
AFTER

MASS
58
AREA
1585
HEIGHT
672
27-Dec-2022
16:07
linh
pham



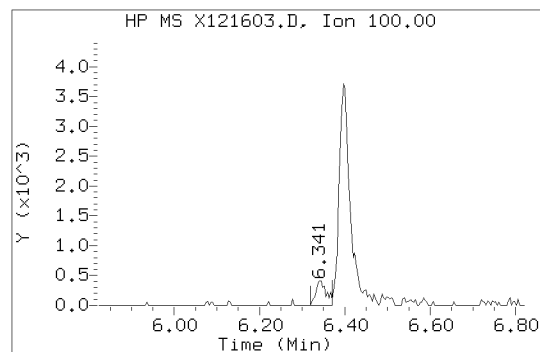
BEFORE

MASS
100
AREA
714
HEIGHT
412
27-Dec-2022
16:03
linh
pham



AFTER

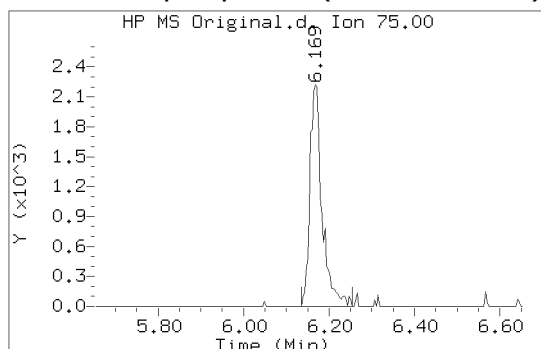
MASS
100
AREA
714
HEIGHT
412
27-Dec-2022
16:07
linh
pham



cis-1,3-Dichloropropene (10061-01-5)

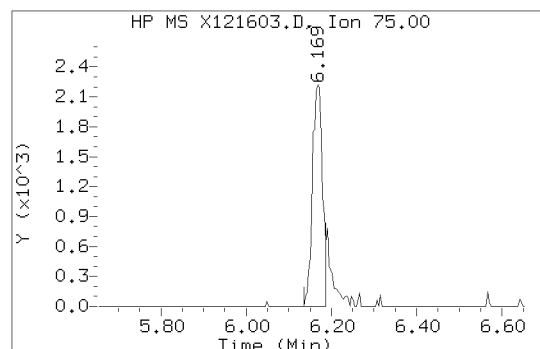
BEFORE

MASS
75
AREA
4432
HEIGHT
2222
27-Dec-2022
16:03
linh
pham



AFTER

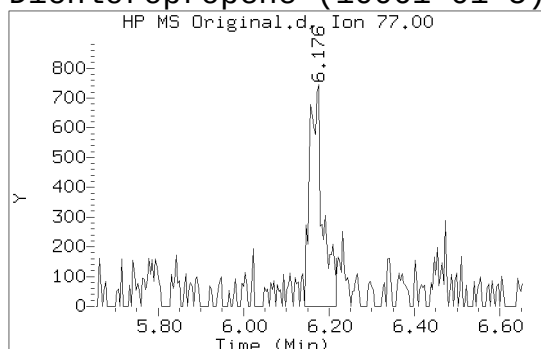
MASS
75
AREA
3695
HEIGHT
2222
27-Dec-2022
16:07
linh
pham



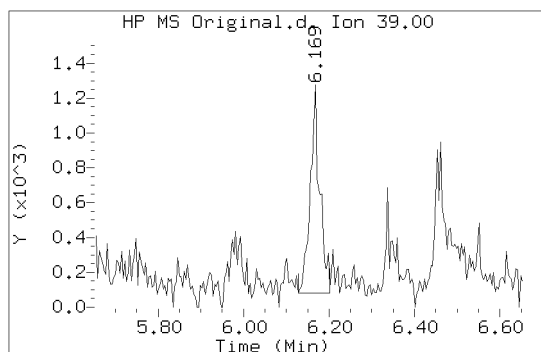
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

cis-1,3-Dichloropropene (10061-01-5)**BEFORE**

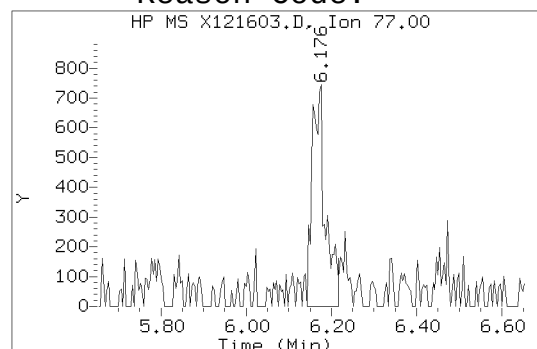
MASS
77
AREA
1607
HEIGHT
745
27-Dec-2022
16:03
linh

**BEFORE**

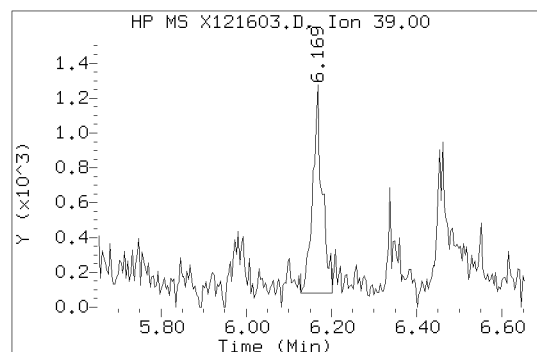
MASS
39
AREA
1836
HEIGHT
1193
27-Dec-2022
16:03
linh
pham

**AFTER**

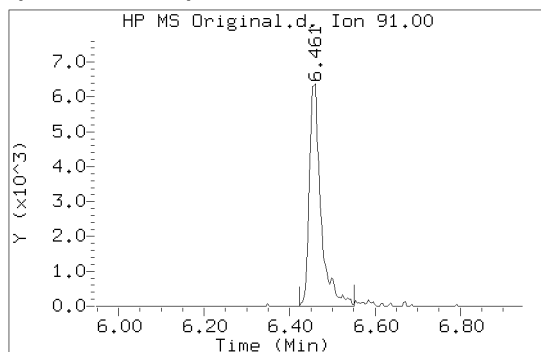
MASS
77
AREA
1607
HEIGHT
745
27-Dec-2022
16:07
linh

**AFTER**

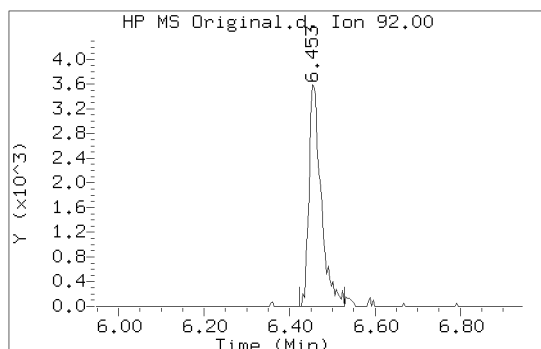
MASS
39
AREA
1836
HEIGHT
1193
27-Dec-2022
16:07
linh
pham

**Toluene (108-88-3)****BEFORE**

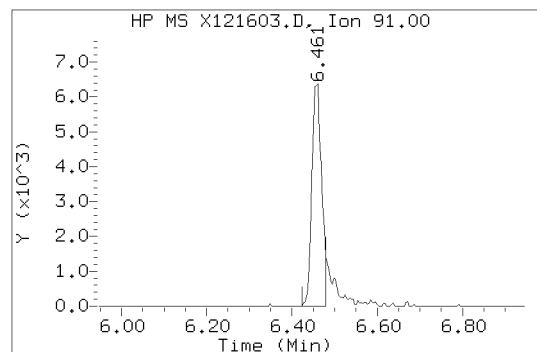
MASS
91
AREA
12225
HEIGHT
6374
27-Dec-2022
16:03
linh
pham

**BEFORE**

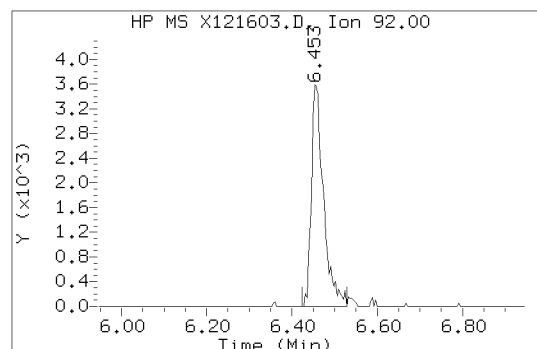
MASS
92
AREA
7180
HEIGHT
3591
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
91
AREA
10374
HEIGHT
6374
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
92
AREA
7180
HEIGHT
3591
27-Dec-2022
16:07
linh
pham

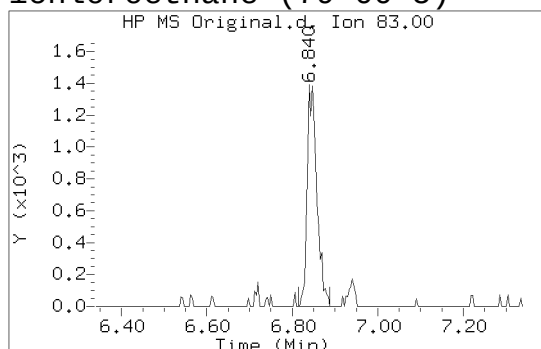


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2-Trichloroethane (79-00-5)

BEFORE

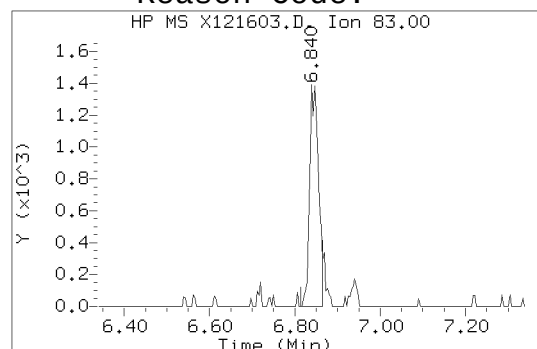
MASS
83
AREA
2247
HEIGHT
1391
27-Dec-2022
16:03
linh



AFTER

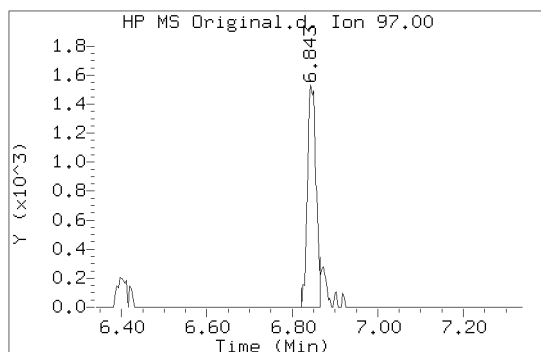
MASS
83
AREA
2092
HEIGHT
1391
27-Dec-2022
16:07
linh

Reason Code:



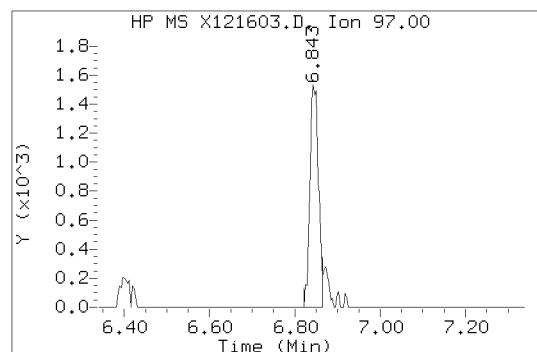
BEFORE

MASS
97
AREA
2224
HEIGHT
1532
27-Dec-2022
16:03
linh
pham



AFTER

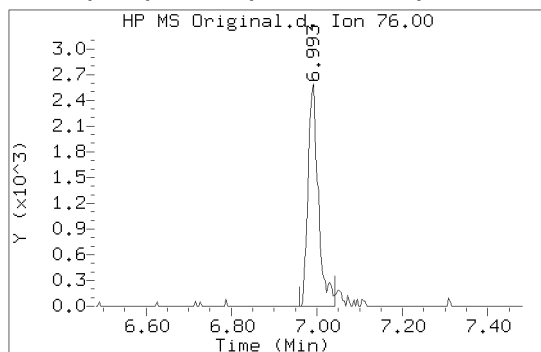
MASS
97
AREA
2224
HEIGHT
1532
27-Dec-2022
16:07
linh
pham



1,3-Dichloropropane (142-28-9)

BEFORE

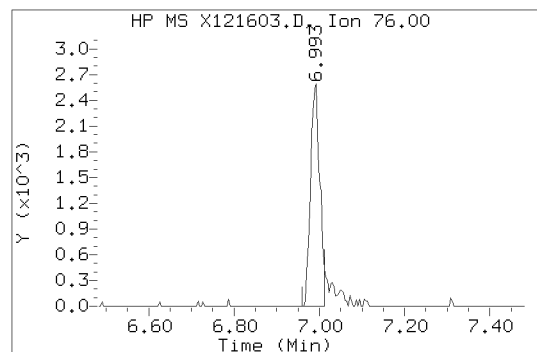
MASS
76
AREA
4415
HEIGHT
2592
27-Dec-2022
16:03
linh
pham



AFTER

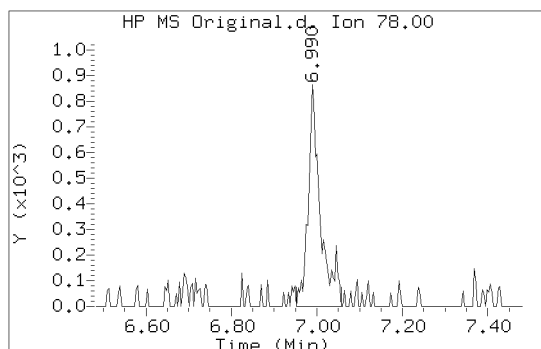
MASS
76
AREA
4005
HEIGHT
2592
27-Dec-2022
16:07
linh
pham

Reason Code:



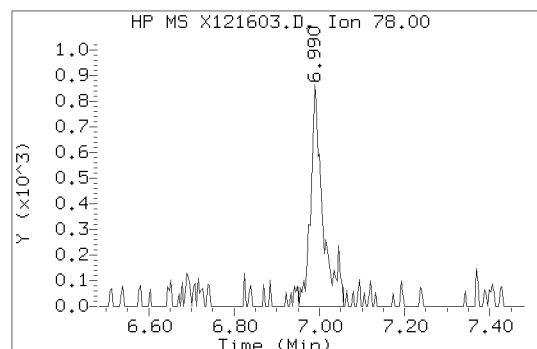
BEFORE

MASS
78
AREA
1727
HEIGHT
864
27-Dec-2022
16:03
linh
pham



AFTER

MASS
78
AREA
1727
HEIGHT
864
27-Dec-2022
16:07
linh
pham

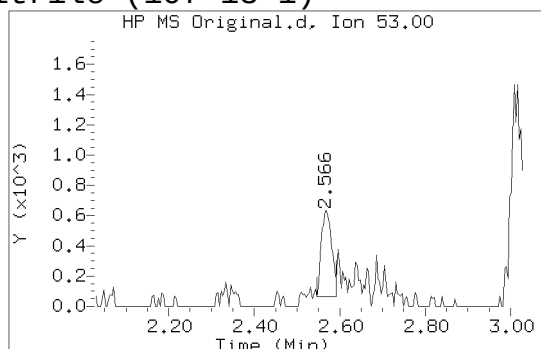


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

Acrylonitrile (107-13-1)

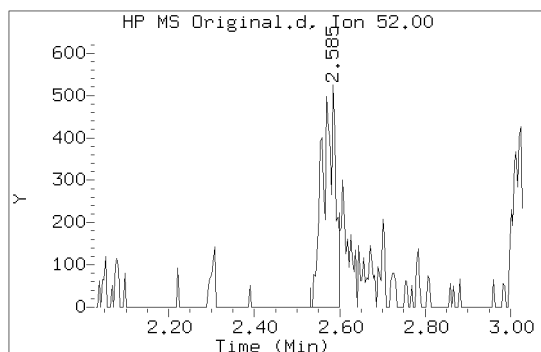
BEFORE

MASS
53
AREA
975
HEIGHT
571
27-Dec-2022
16:03
linh



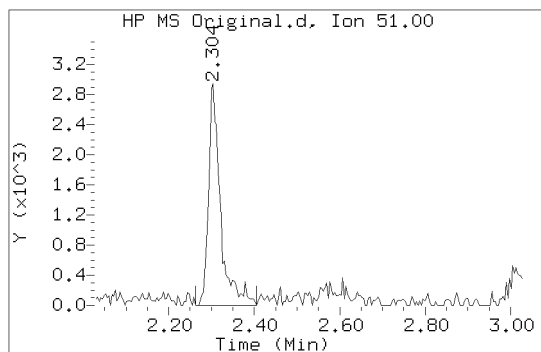
BEFORE

MASS
52
AREA
1100
HEIGHT
525
27-Dec-2022
16:03
linh
pham



BEFORE

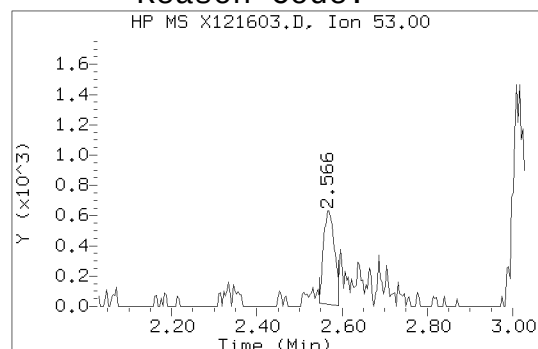
MASS
51
AREA
5708
HEIGHT
2946
27-Dec-2022
16:03
linh
pham



Reason Code:

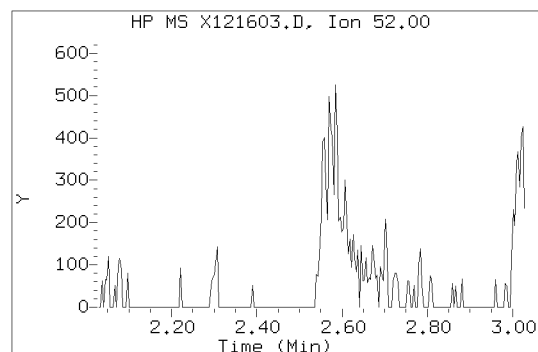
AFTER

MASS
53
AREA
1118
HEIGHT
618
27-Dec-2022
16:07
linh



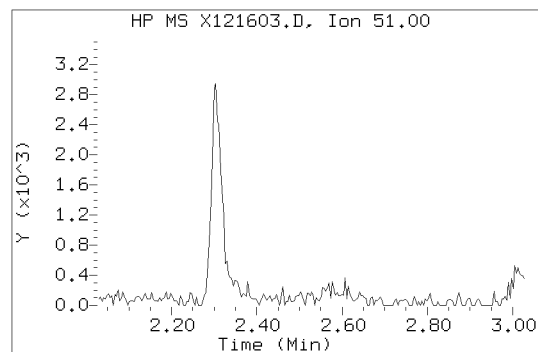
AFTER

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



AFTER

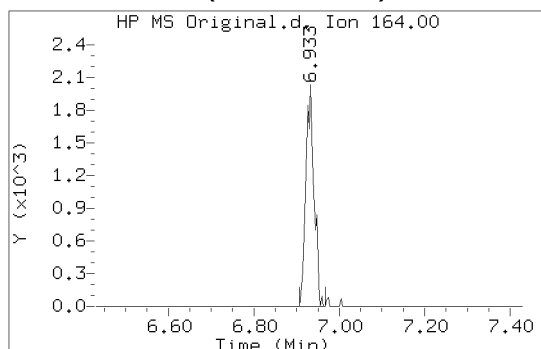
MASS
51
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Tetrachloroethene (127-18-4)

BEFORE

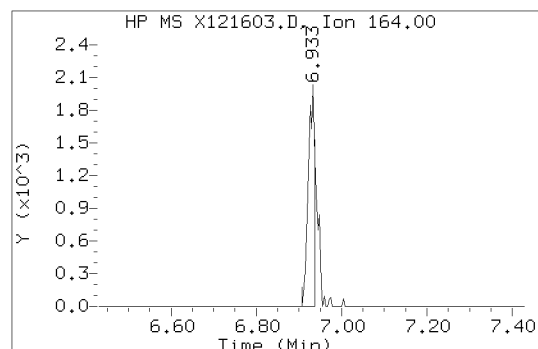
MASS
164
AREA
2777
HEIGHT
2036
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
164
AREA
2131
HEIGHT
2036
27-Dec-2022
16:07
linh
pham

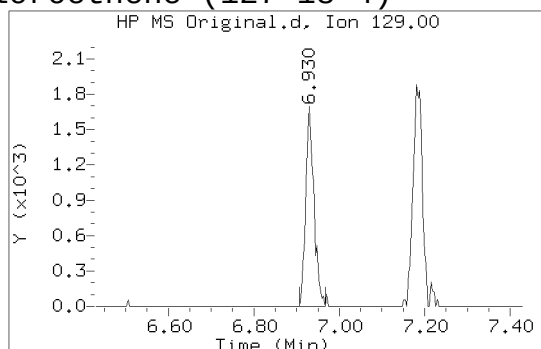


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Tetrachloroethene (127-18-4)

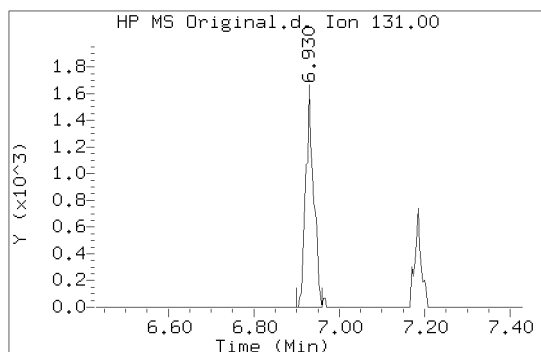
BEFORE

MASS
129
AREA
2342
HEIGHT
1697
27-Dec-2022
16:03
linh



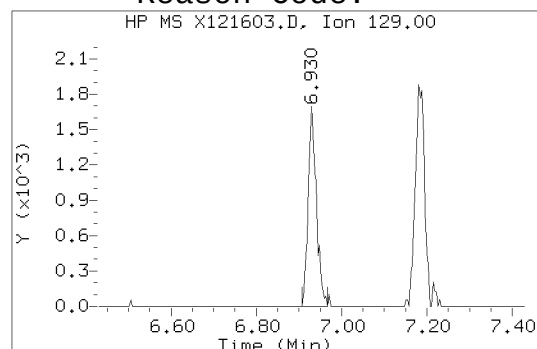
BEFORE

MASS
131
AREA
2193
HEIGHT
1665
27-Dec-2022
16:03
linh
pham



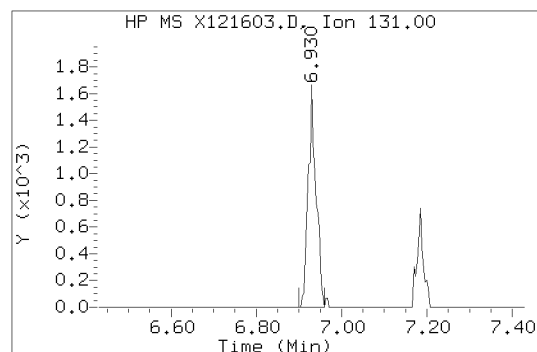
AFTER

MASS
129
AREA
2342
HEIGHT
1697
27-Dec-2022
16:07
linh



AFTER

MASS
131
AREA
2193
HEIGHT
1665
27-Dec-2022
16:07
linh
pham

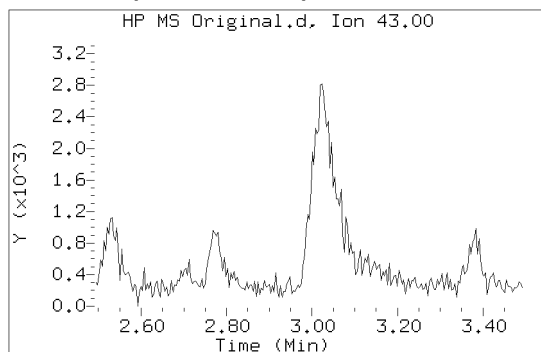


Reason Code:

Vinyl Acetate (108-05-4)

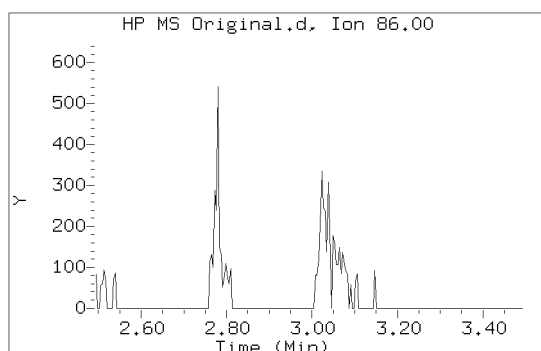
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



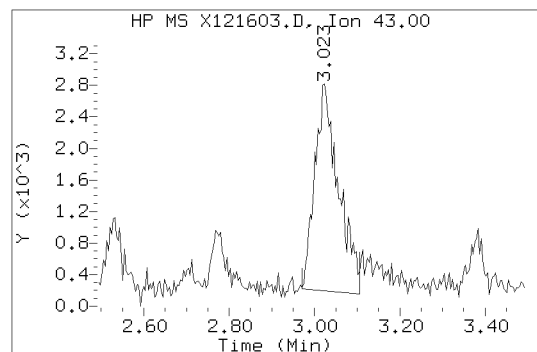
BEFORE

MASS
86
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



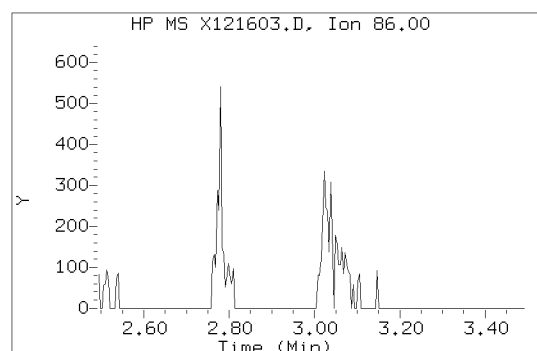
AFTER

MASS
43
AREA
10138
HEIGHT
2622
27-Dec-2022
16:07
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Reason Code:

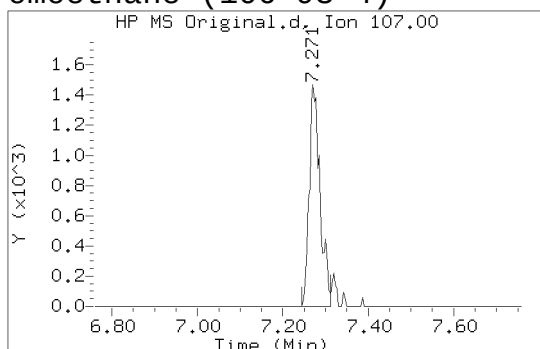


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dibromoethane (106-93-4)

BEFORE

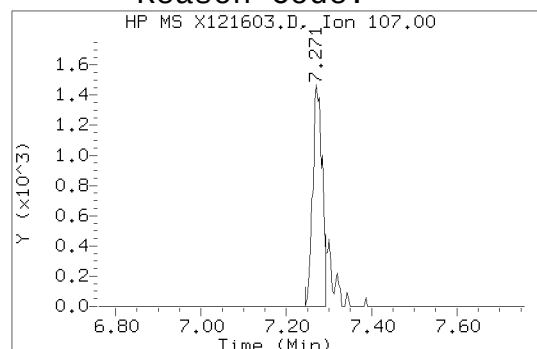
MASS
107
AREA
2627
HEIGHT
1469
27-Dec-2022
16:03
linh



AFTER

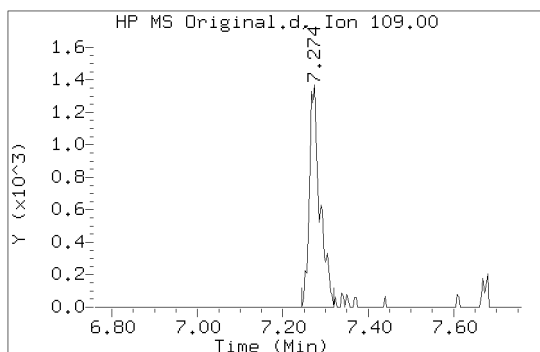
MASS
107
AREA
2340
HEIGHT
1469
27-Dec-2022
16:07
linh

Reason Code:



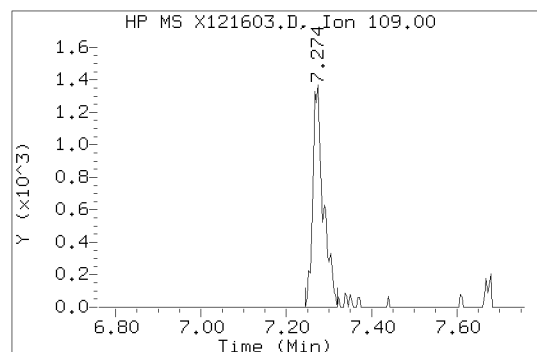
BEFORE

MASS
109
AREA
2396
HEIGHT
1369
27-Dec-2022
16:03
linh
pham



AFTER

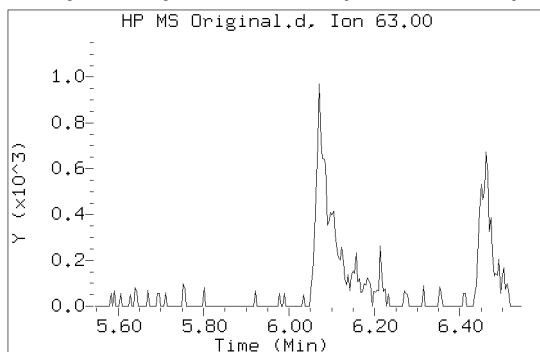
MASS
109
AREA
2396
HEIGHT
1369
27-Dec-2022
16:07
linh
pham



2-Chloroethylvinyl ether (110-75-8)

BEFORE

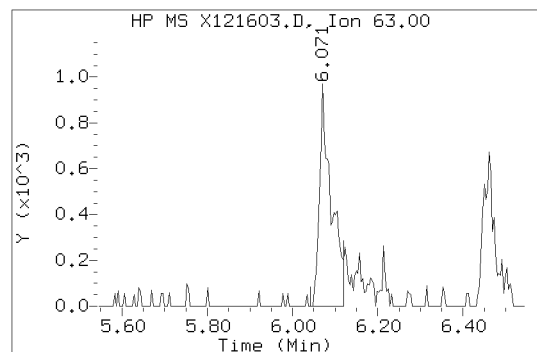
MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

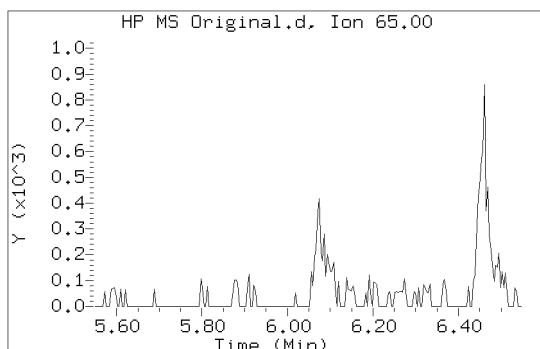
MASS
63
AREA
1861
HEIGHT
970
27-Dec-2022
16:07
linh
pham

Reason Code:



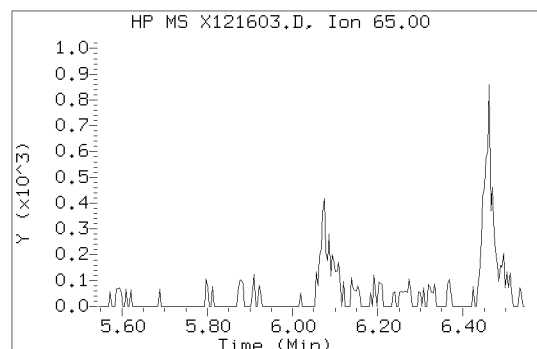
BEFORE

MASS
65
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
65
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

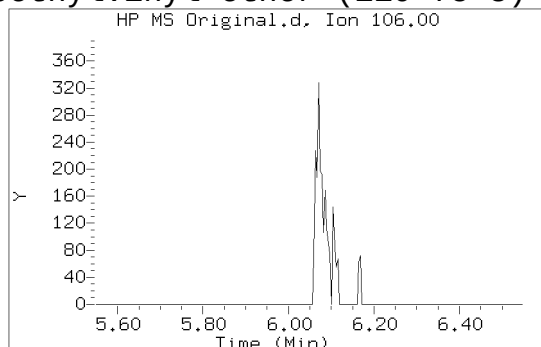


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chloroethylvinyl ether (110-75-8)

BEFORE

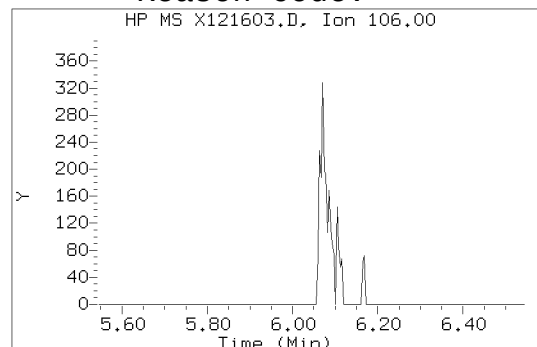
MASS
106
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

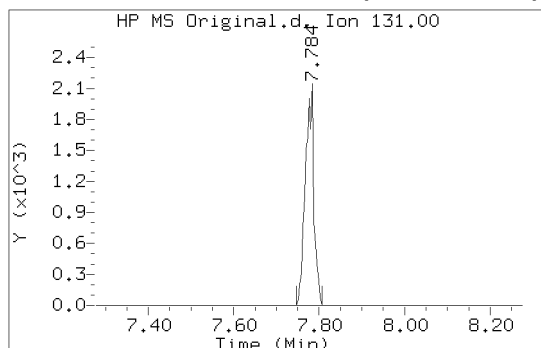
Reason Code:



1,1,1,2-Tetrachloroethane (630-20-6)

BEFORE

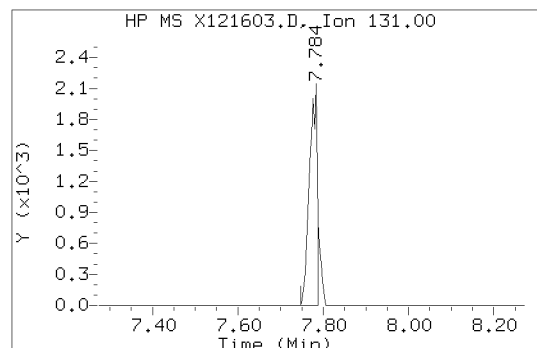
MASS
131
AREA
3036
HEIGHT
2146
27-Dec-2022
16:03
linh
pham



AFTER

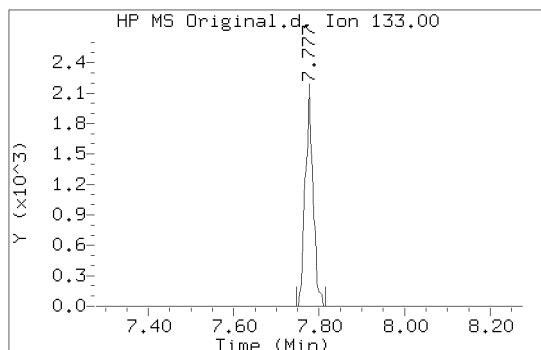
MASS
131
AREA
2741
HEIGHT
2146
27-Dec-2022
16:07
linh
pham

Reason Code:



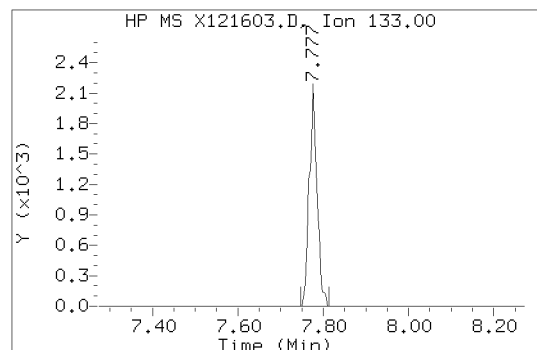
BEFORE

MASS
133
AREA
2829
HEIGHT
2191
27-Dec-2022
16:03
linh
pham



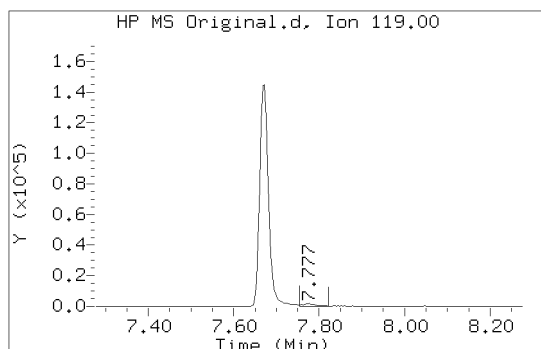
AFTER

MASS
133
AREA
2829
HEIGHT
2191
27-Dec-2022
16:07
linh
pham



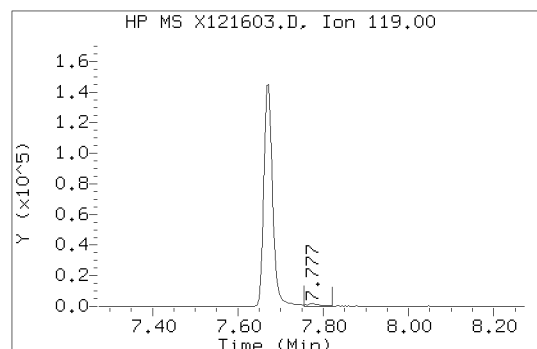
BEFORE

MASS
119
AREA
2971
HEIGHT
1971
27-Dec-2022
16:03
linh
pham



AFTER

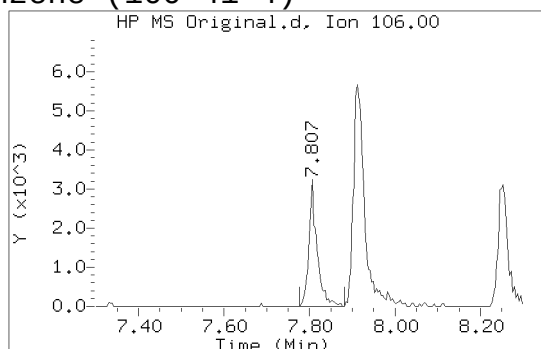
MASS
119
AREA
2971
HEIGHT
1971
27-Dec-2022
16:07
linh
pham



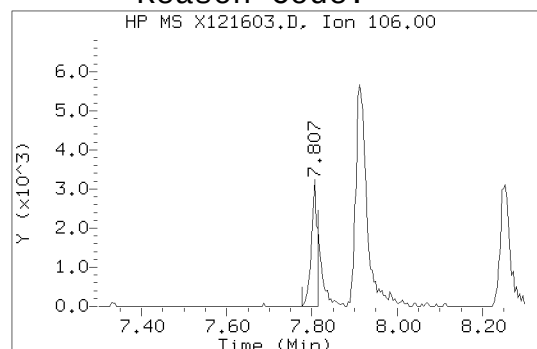
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethylbenzene (100-41-4)**BEFORE**

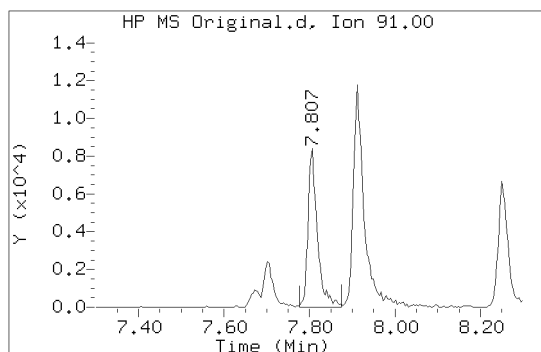
MASS
106
AREA
4331
HEIGHT
3242
27-Dec-2022
16:03
linh

**AFTER**

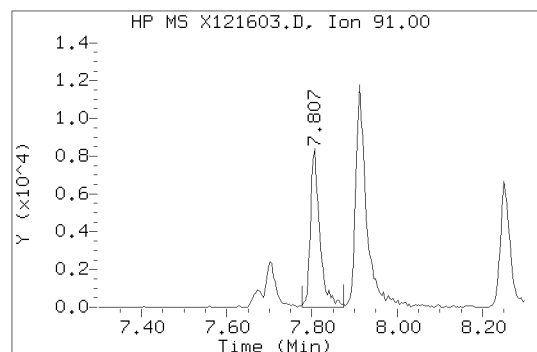
MASS
106
AREA
3064
HEIGHT
3242
27-Dec-2022
16:07
linh

**BEFORE**

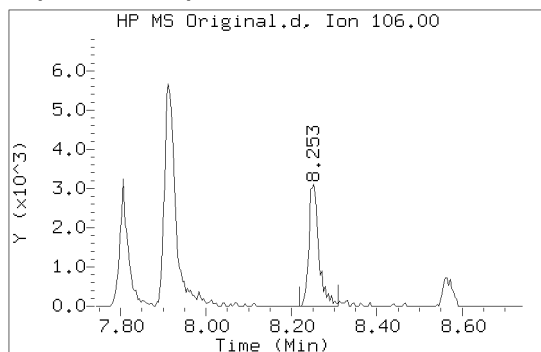
MASS
91
AREA
13136
HEIGHT
8410
27-Dec-2022
16:03
linh
pham

**AFTER**

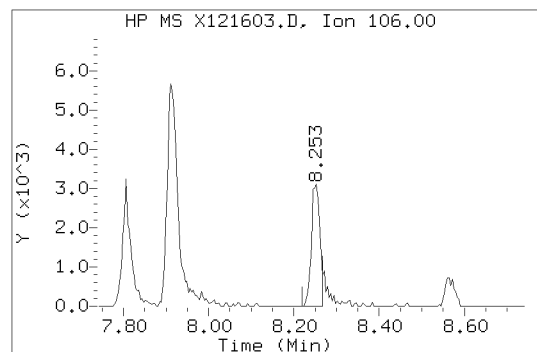
MASS
91
AREA
13136
HEIGHT
8410
27-Dec-2022
16:07
linh
pham

**o-Xylene (95-47-6)****BEFORE**

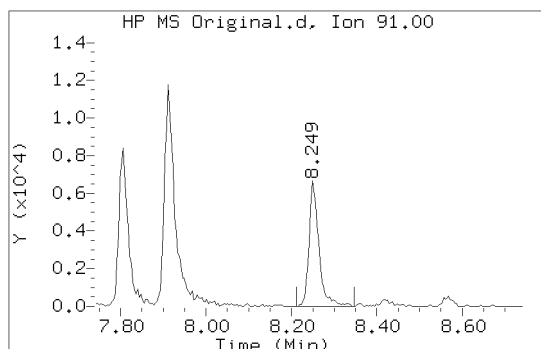
MASS
106
AREA
5100
HEIGHT
3111
27-Dec-2022
16:03
linh
pham

**AFTER**

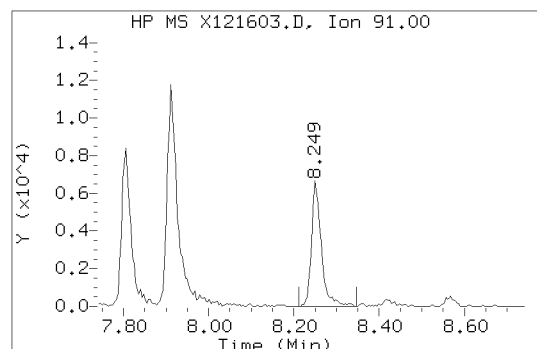
MASS
106
AREA
4412
HEIGHT
3111
27-Dec-2022
16:07
linh
pham

**BEFORE**

MASS
91
AREA
10808
HEIGHT
6665
27-Dec-2022
16:03
linh
pham

**AFTER**

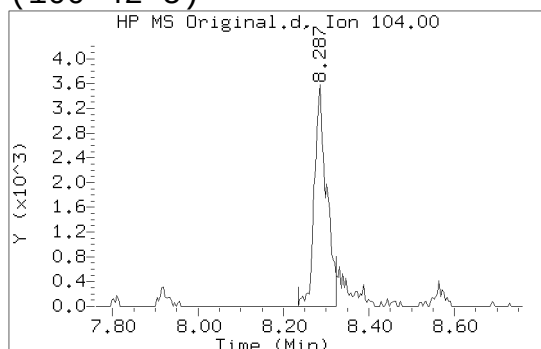
MASS
91
AREA
10808
HEIGHT
6665
27-Dec-2022
16:07
linh
pham



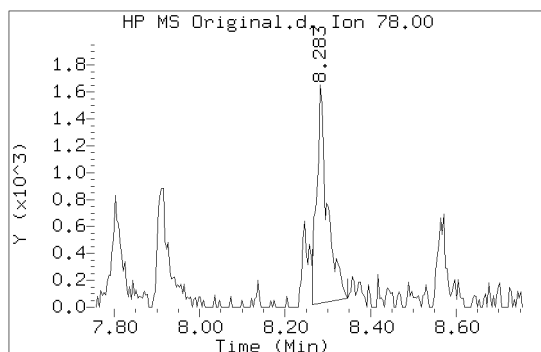
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Styrene (100-42-5)**BEFORE**

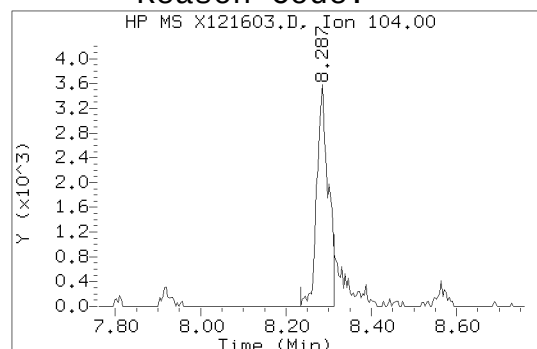
MASS
104
AREA
7074
HEIGHT
3581
27-Dec-2022
16:03
linh

**BEFORE**

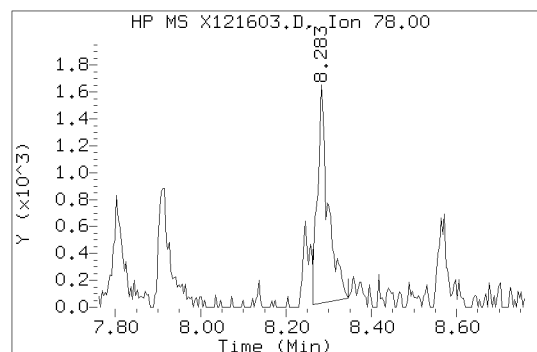
MASS
78
AREA
2827
HEIGHT
1622
27-Dec-2022
16:03
linh
pham

**AFTER**

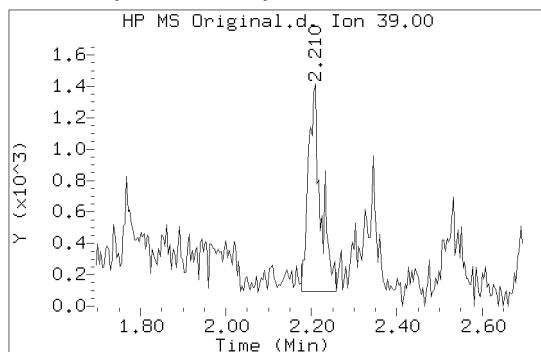
MASS
104
AREA
6634
HEIGHT
3581
27-Dec-2022
16:07
linh

**AFTER**

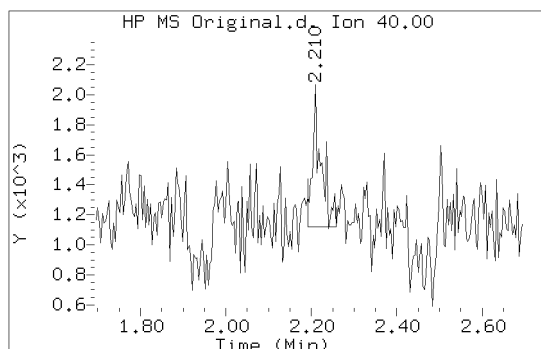
MASS
78
AREA
2827
HEIGHT
1622
27-Dec-2022
16:07
linh
pham

**Acetonitrile (75-05-8)****BEFORE**

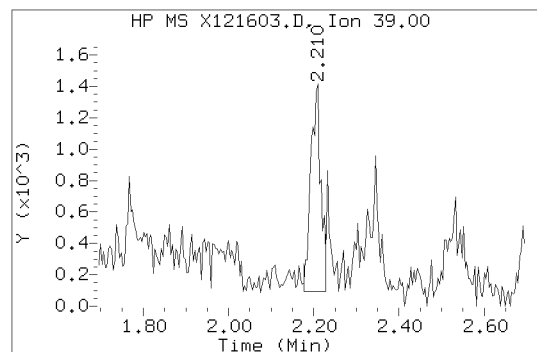
MASS
39
AREA
2674
HEIGHT
1321
27-Dec-2022
16:03
linh
pham

**BEFORE**

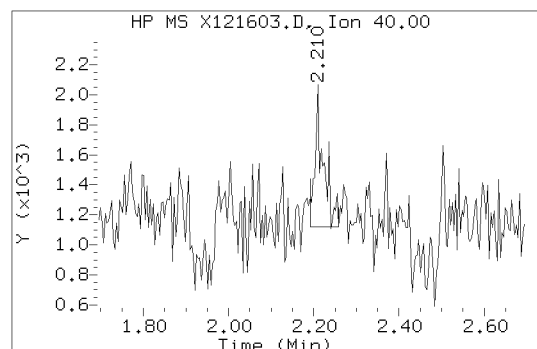
MASS
40
AREA
1296
HEIGHT
946
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
39
AREA
2204
HEIGHT
1321
27-Dec-2022
16:07
linh
pham

**AFTER**

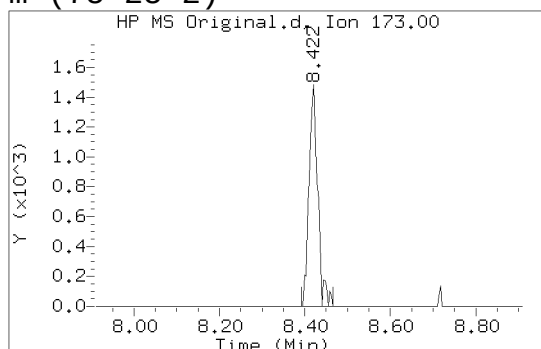
MASS
40
AREA
1296
HEIGHT
946
27-Dec-2022
16:07
linh
pham



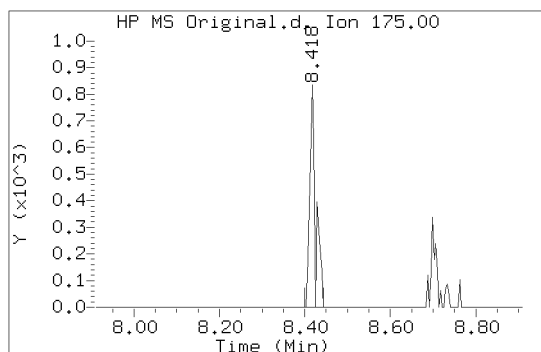
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromoform (75-25-2)**BEFORE**

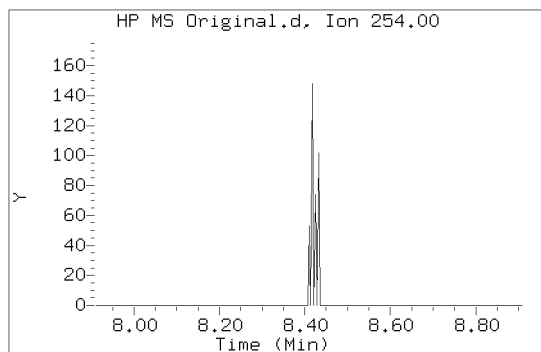
MASS
173
AREA
2158
HEIGHT
1483
27-Dec-2022
16:03
linh
pham

**BEFORE**

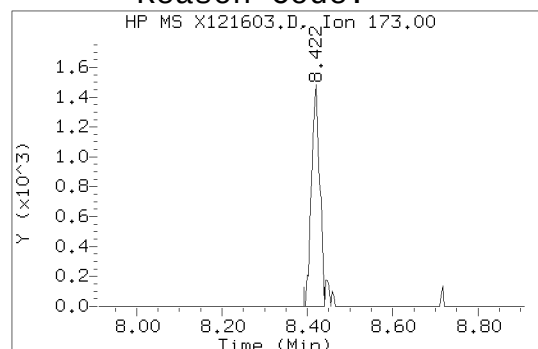
MASS
175
AREA
807
HEIGHT
835
27-Dec-2022
16:03
linh
pham

**BEFORE**

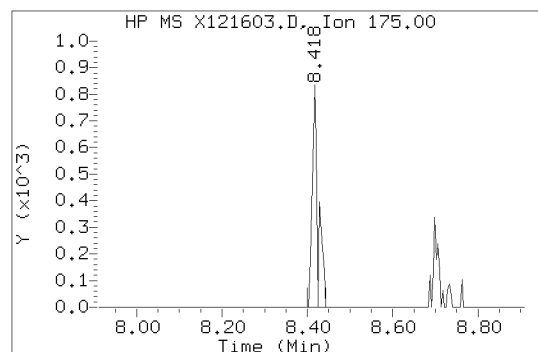
MASS
254
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

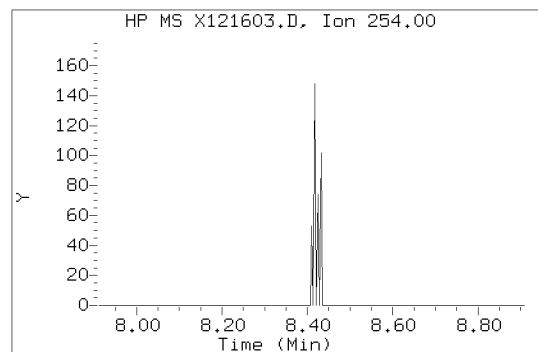
MASS
173
AREA
2013
HEIGHT
1483
27-Dec-2022
16:07
linh

**AFTER**

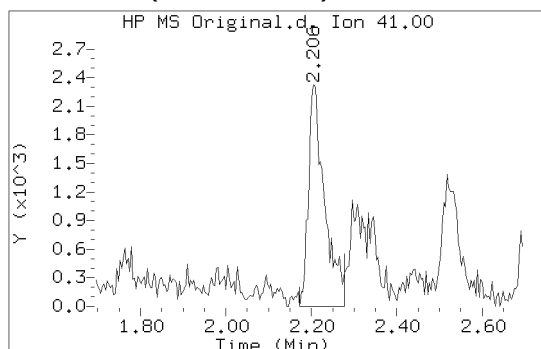
MASS
175
AREA
807
HEIGHT
835
27-Dec-2022
16:07
linh
pham

**AFTER**

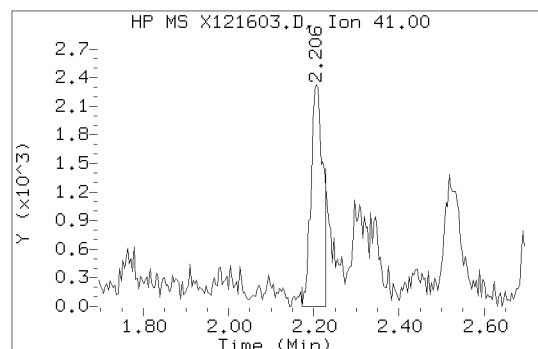
MASS
254
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

**Allyl Chloride (107-05-1)****BEFORE**

MASS
41
AREA
6169
HEIGHT
2326
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

MASS
41
AREA
4574
HEIGHT
2326
27-Dec-2022
16:07
linh
pham

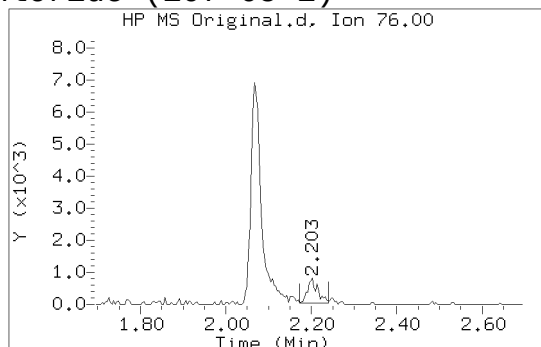


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

Allyl Chloride (107-05-1)

BEFORE

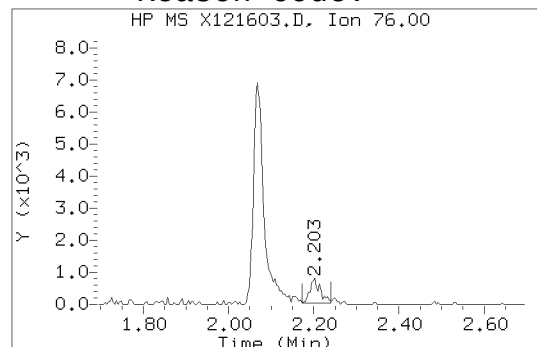
MASS
76
AREA
1254
HEIGHT
763
27-Dec-2022
16:03
linh
pham



AFTER

MASS
76
AREA
1254
HEIGHT
763
27-Dec-2022
16:07
linh
pham

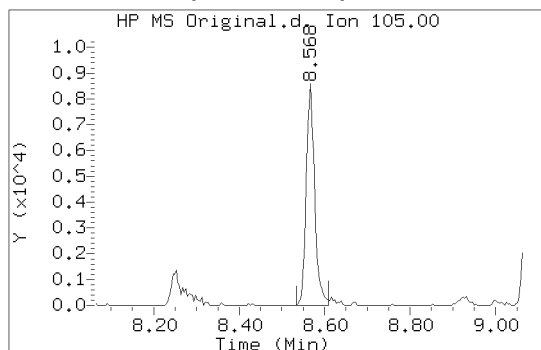
Reason Code:



Isopropylbenzene (98-82-8)

BEFORE

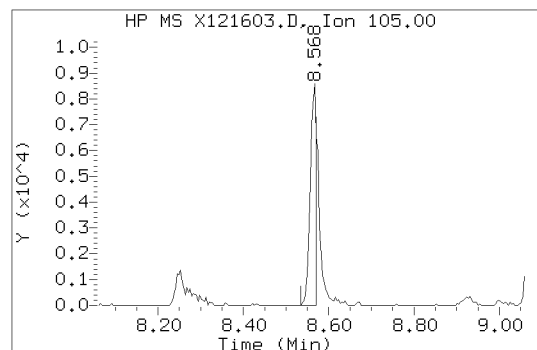
MASS
105
AREA
12091
HEIGHT
8588
27-Dec-2022
16:03
linh
pham



AFTER

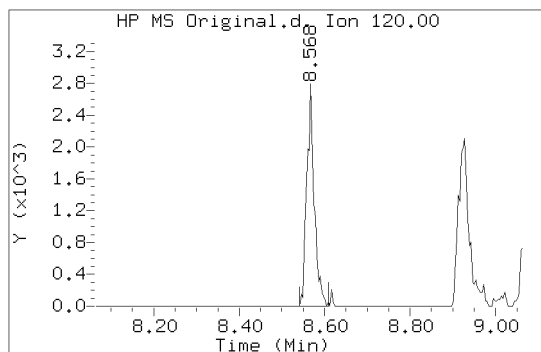
MASS
105
AREA
8757
HEIGHT
8588
27-Dec-2022
16:07
linh
pham

Reason Code:



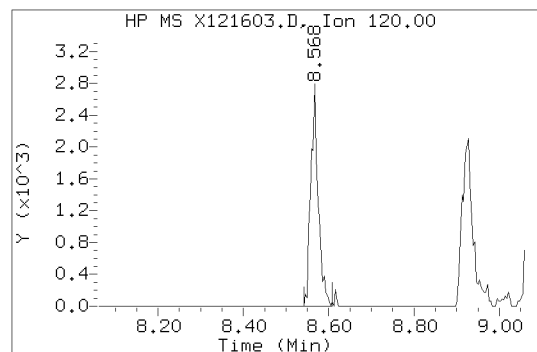
BEFORE

MASS
120
AREA
3462
HEIGHT
2793
27-Dec-2022
16:03
linh
pham



AFTER

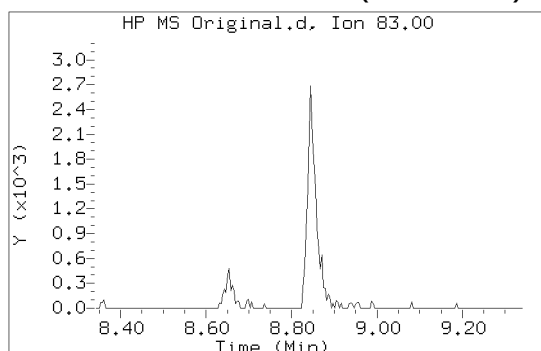
MASS
120
AREA
3462
HEIGHT
2793
27-Dec-2022
16:07
linh
pham



1,1,2,2-Tetrachloroethane (79-34-5)

BEFORE

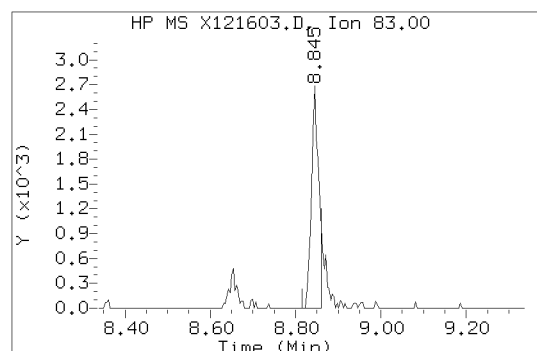
MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
83
AREA
3194
HEIGHT
2685
27-Dec-2022
16:07
linh
pham

Reason Code:

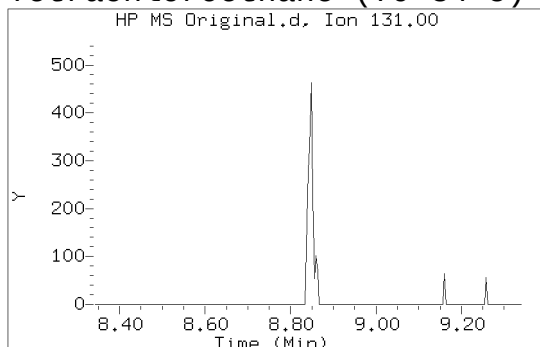


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2,2-Tetrachloroethane (79-34-5)

BEFORE

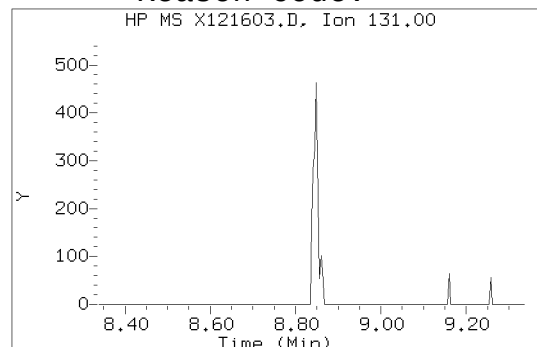
MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh



AFTER

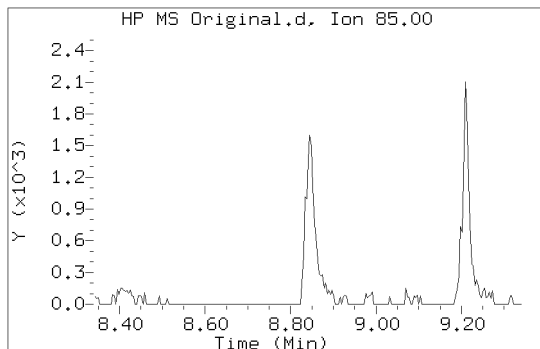
MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh

Reason Code:



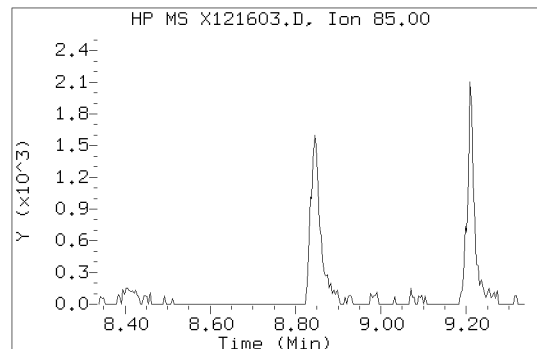
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

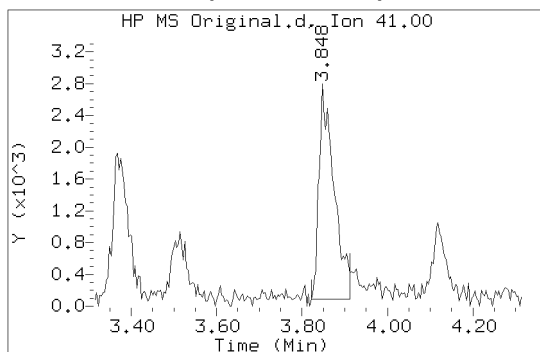
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Methacrylonitrile (126-98-7)

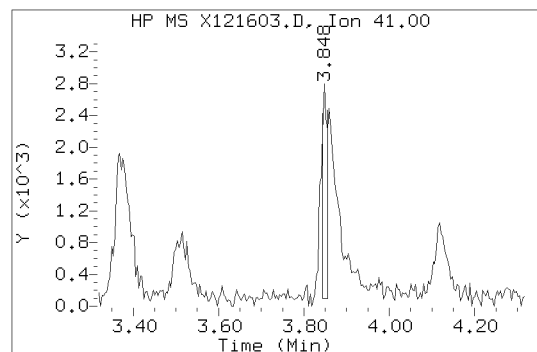
BEFORE

MASS
41
AREA
6587
HEIGHT
2708
27-Dec-2022
16:03
linh
pham



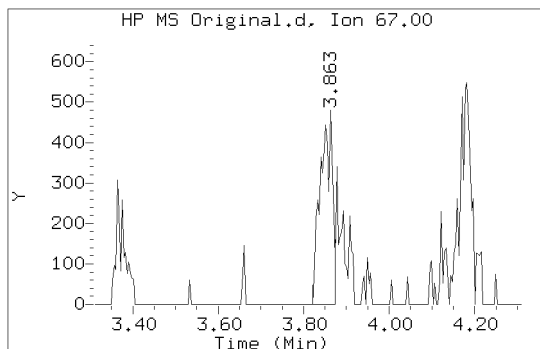
AFTER

MASS
41
AREA
2066
HEIGHT
2701
27-Dec-2022
16:07
linh
pham



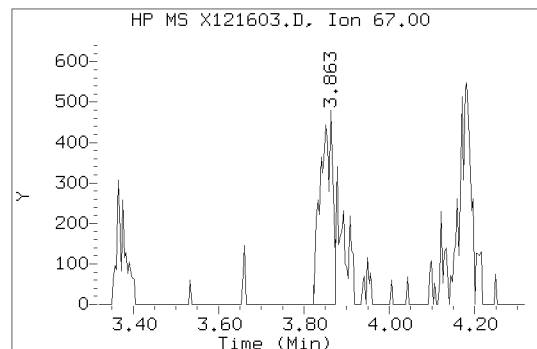
BEFORE

MASS
67
AREA
937
HEIGHT
480
27-Dec-2022
16:03
linh
pham



AFTER

MASS
67
AREA
937
HEIGHT
480
27-Dec-2022
16:07
linh
pham

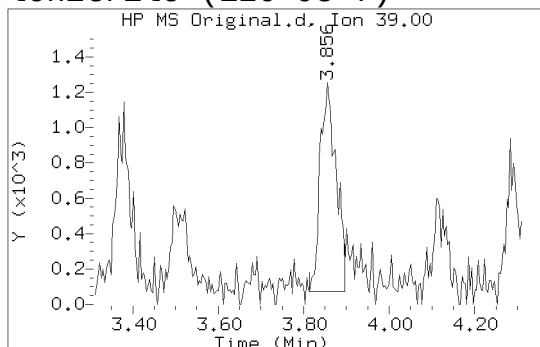


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

BEFORE

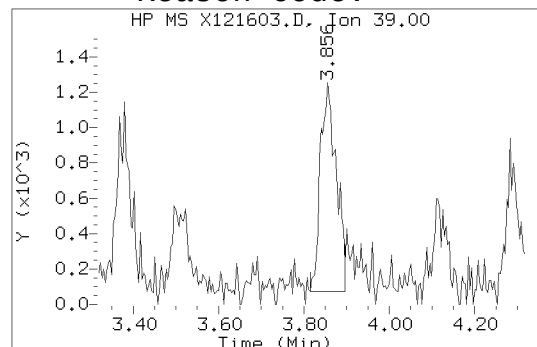
MASS
39
AREA
3048
HEIGHT
1181
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
3048
HEIGHT
1181
27-Dec-2022
16:07
linh
pham

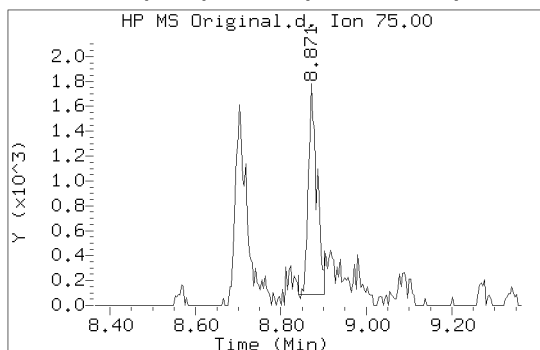
Reason Code:



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

BEFORE

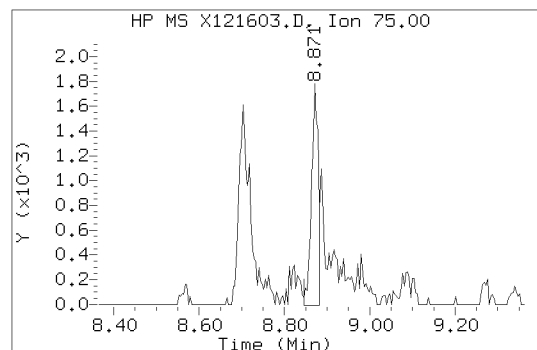
MASS
75
AREA
2351
HEIGHT
1693
27-Dec-2022
16:03
linh
pham



AFTER

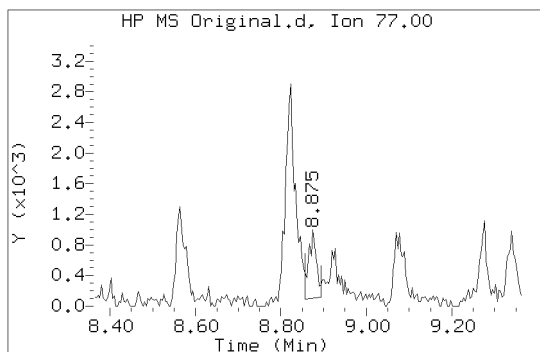
MASS
75
AREA
2019
HEIGHT
1788
27-Dec-2022
16:07
linh
pham

Reason Code:



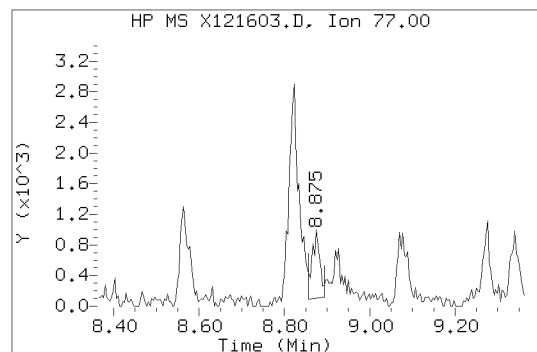
BEFORE

MASS
77
AREA
1161
HEIGHT
895
27-Dec-2022
16:03
linh
pham



AFTER

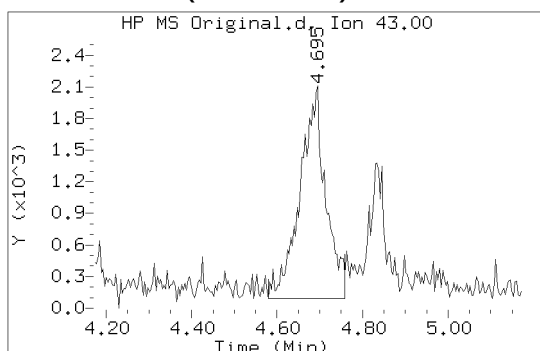
MASS
77
AREA
1161
HEIGHT
895
27-Dec-2022
16:07
linh
pham



Isobutyl Alcohol (78-83-1)

BEFORE

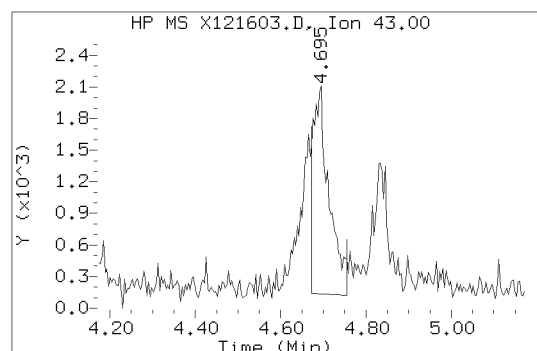
MASS
43
AREA
8478
HEIGHT
2018
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
5178
HEIGHT
1973
27-Dec-2022
16:07
linh
pham

Reason Code:

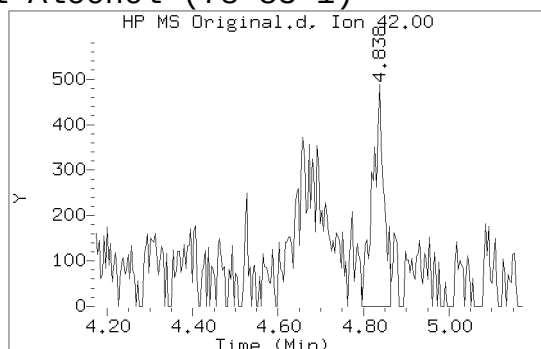


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)

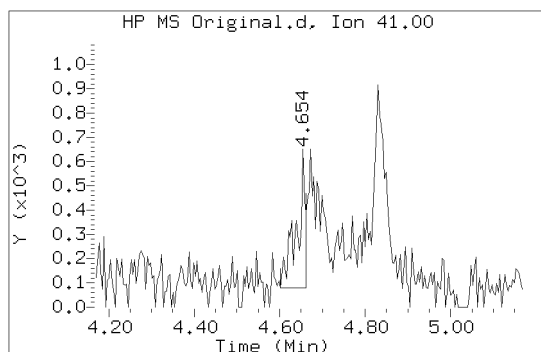
BEFORE

MASS
42
AREA
904
HEIGHT
488
27-Dec-2022
16:03
linh



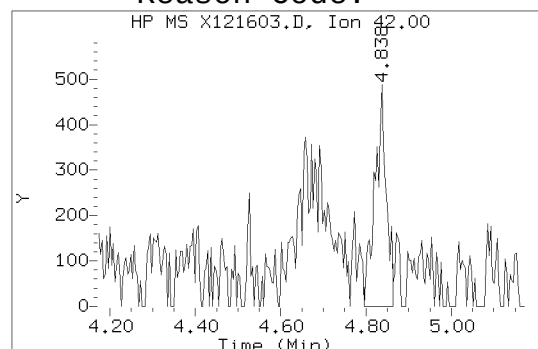
BEFORE

MASS
41
AREA
776
HEIGHT
572
27-Dec-2022
16:03
linh
pham



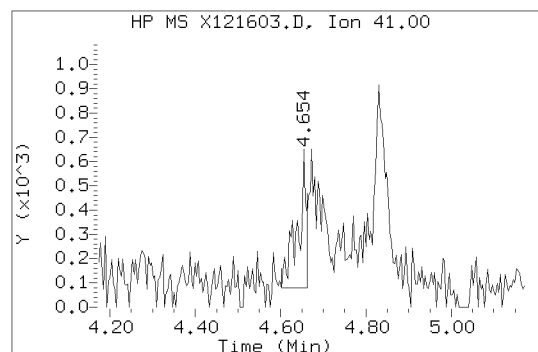
AFTER

MASS
42
AREA
904
HEIGHT
488
27-Dec-2022
16:07
linh



AFTER

MASS
41
AREA
776
HEIGHT
572
27-Dec-2022
16:07
linh
pham

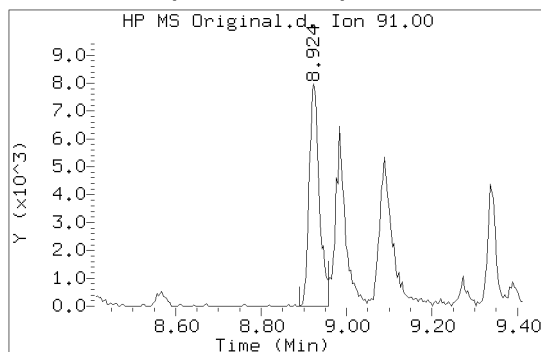


Reason Code:

n-Propylbenzene (106-65-1)

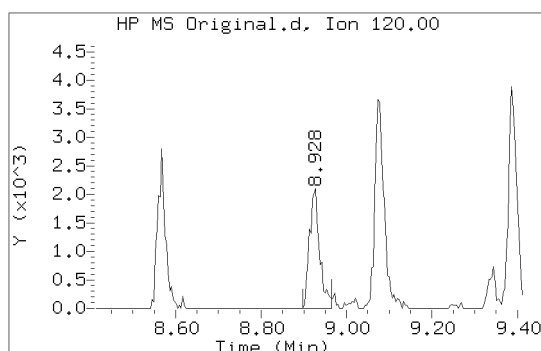
BEFORE

MASS
91
AREA
13496
HEIGHT
7972
27-Dec-2022
16:03
linh
pham



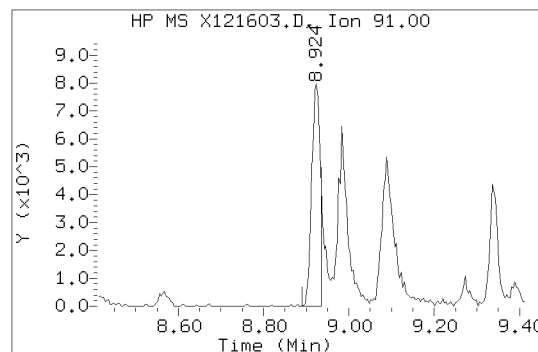
BEFORE

MASS
120
AREA
3559
HEIGHT
2104
27-Dec-2022
16:03
linh
pham



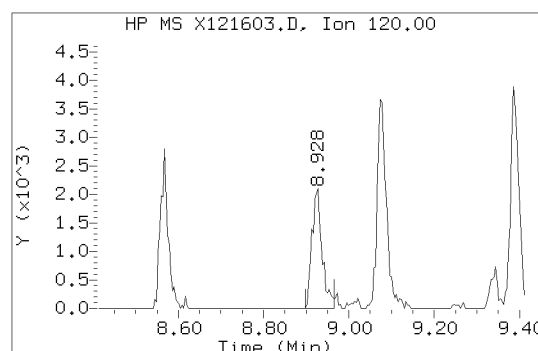
AFTER

MASS
91
AREA
11163
HEIGHT
7972
27-Dec-2022
16:07
linh
pham



AFTER

MASS
120
AREA
3559
HEIGHT
2104
27-Dec-2022
16:07
linh
pham



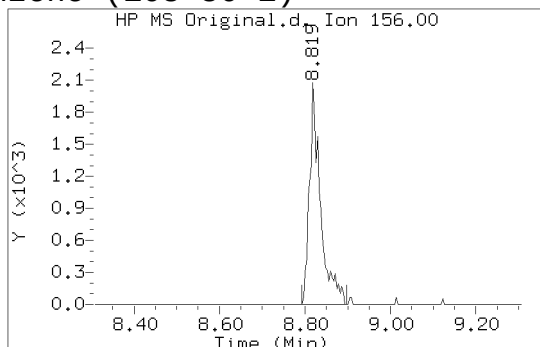
Reason Code:



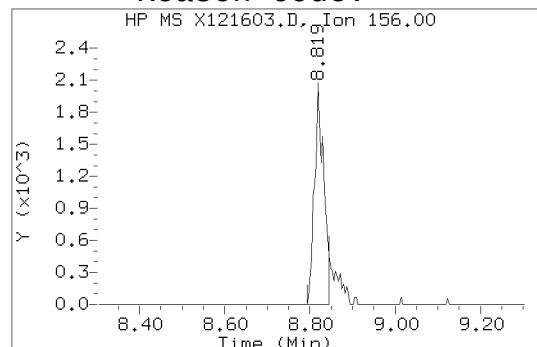
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Bromobenzene (108-86-1)**BEFORE**

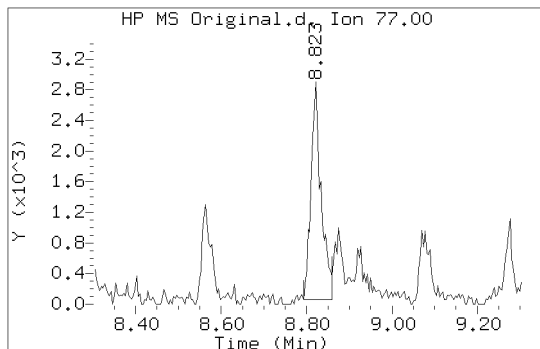
MASS
156
AREA
3747
HEIGHT
2077
27-Dec-2022
16:03
linh

**AFTER**

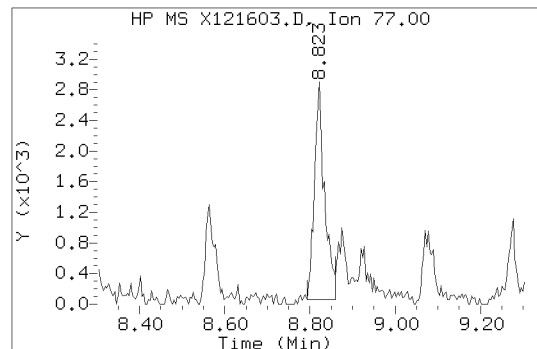
MASS
156
AREA
3147
HEIGHT
2077
27-Dec-2022
16:07
linh

**BEFORE**

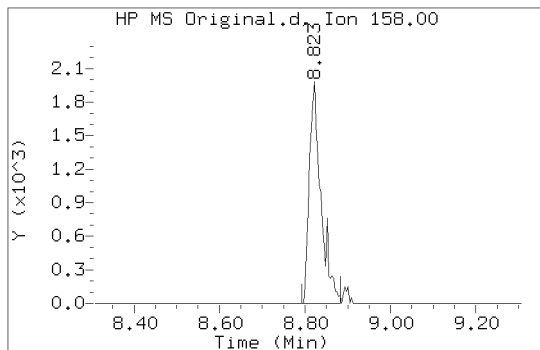
MASS
77
AREA
4719
HEIGHT
2841
27-Dec-2022
16:03
linh
pham

**AFTER**

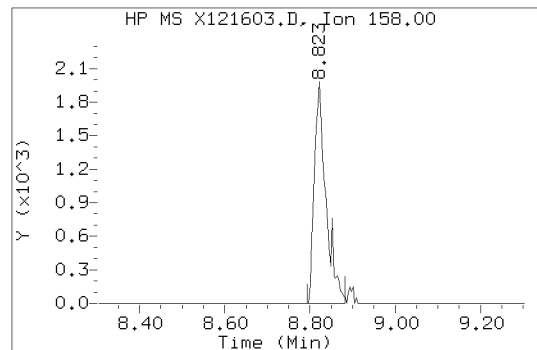
MASS
77
AREA
4719
HEIGHT
2841
27-Dec-2022
16:07
linh
pham

**BEFORE**

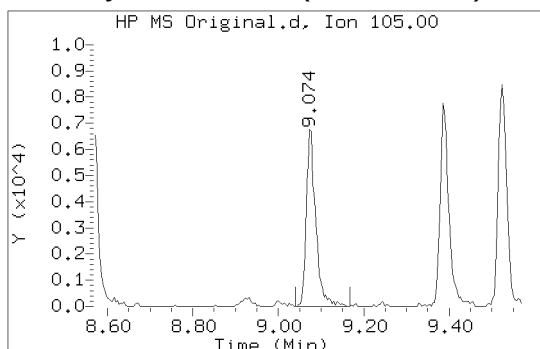
MASS
158
AREA
3772
HEIGHT
1983
27-Dec-2022
16:03
linh
pham

**AFTER**

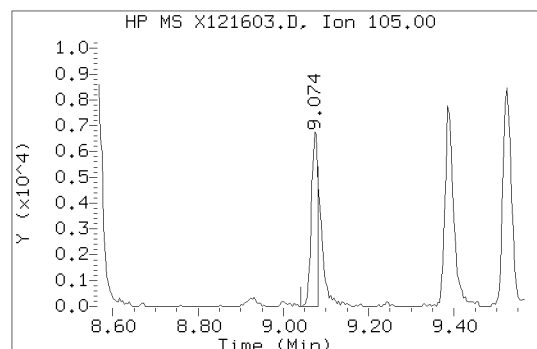
MASS
158
AREA
3772
HEIGHT
1983
27-Dec-2022
16:07
linh
pham

**1,3,5-Trimethylbenzene (108-67-8)****BEFORE**

MASS
105
AREA
10555
HEIGHT
6758
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
105
AREA
7182
HEIGHT
6758
27-Dec-2022
16:07
linh
pham

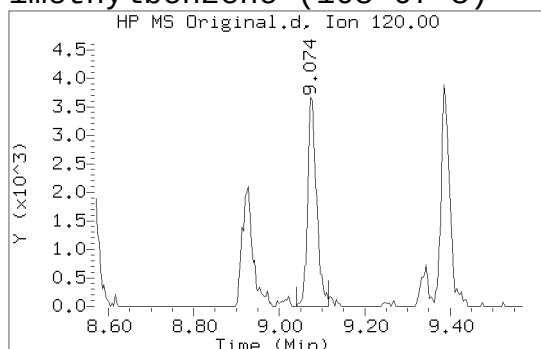


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

1,3,5-Trimethylbenzene (108-67-8)

BEFORE

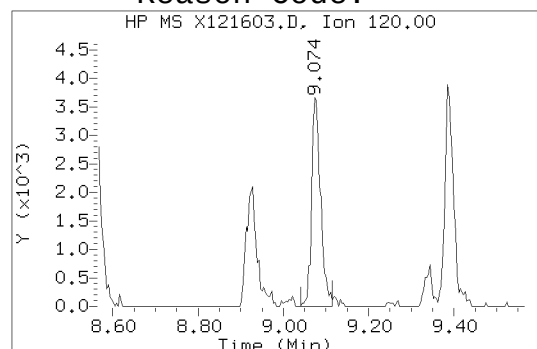
MASS
120
AREA
5450
HEIGHT
3663
27-Dec-2022
16:03
linh
pham



AFTER

MASS
120
AREA
5450
HEIGHT
3663
27-Dec-2022
16:07
linh
pham

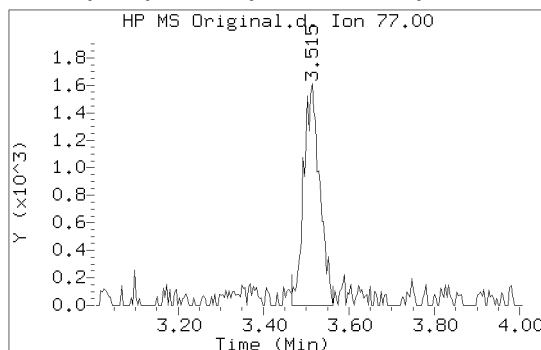
Reason Code:



2,2-Dichloropropane (594-20-7)

BEFORE

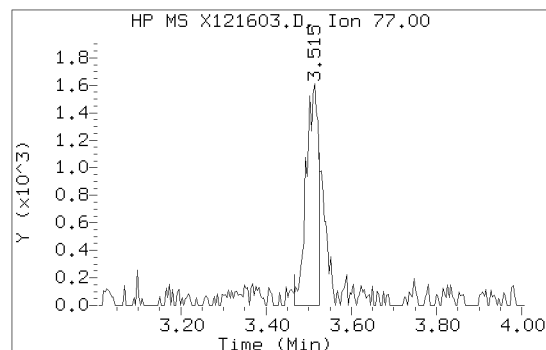
MASS
77
AREA
4217
HEIGHT
1612
27-Dec-2022
16:03
linh
pham



AFTER

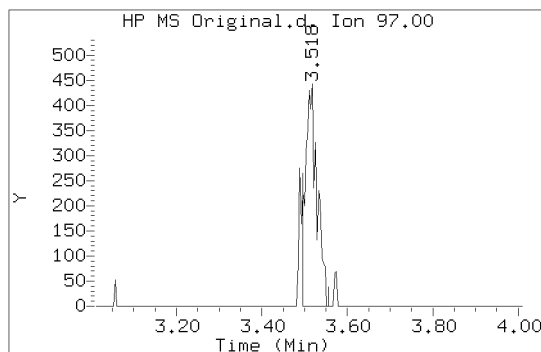
MASS
77
AREA
3238
HEIGHT
1612
27-Dec-2022
16:07
linh
pham

Reason Code:



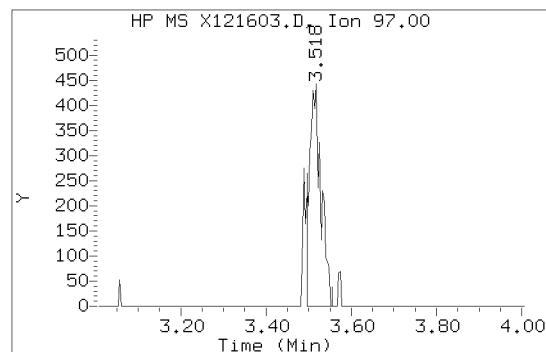
BEFORE

MASS
97
AREA
843
HEIGHT
443
27-Dec-2022
16:03
linh
pham



AFTER

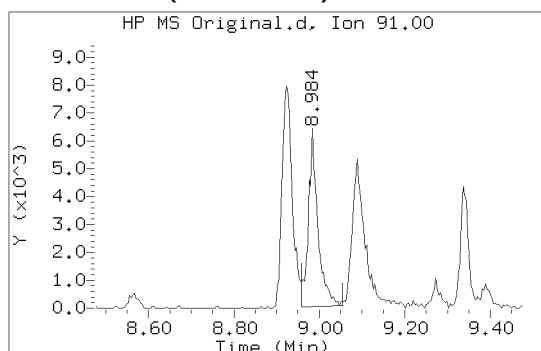
MASS
97
AREA
843
HEIGHT
443
27-Dec-2022
16:07
linh
pham



2-Chlorotoluene (95-49-8)

BEFORE

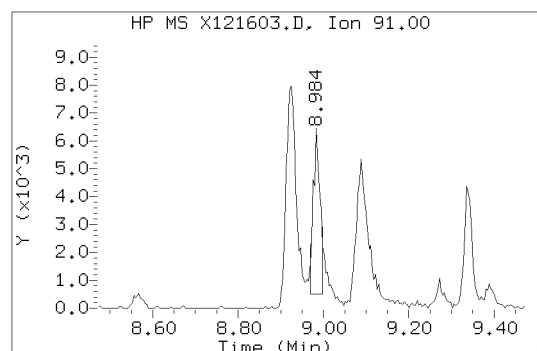
MASS
91
AREA
10128
HEIGHT
6401
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
6718
HEIGHT
5942
27-Dec-2022
16:07
linh
pham

Reason Code:

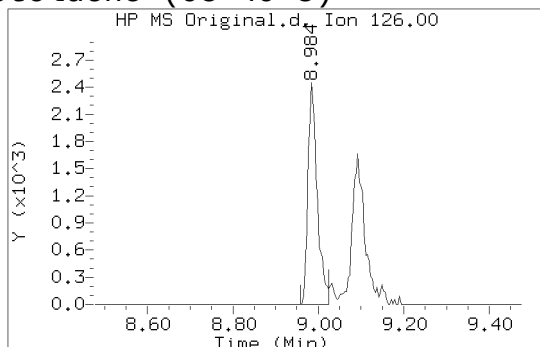


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

BEFORE

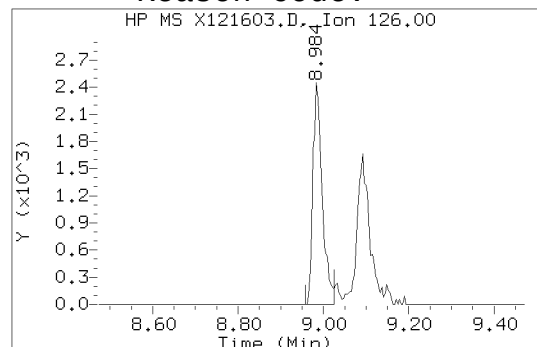
MASS
126
AREA
3761
HEIGHT
2450
27-Dec-2022
16:03
linh
pham



AFTER

MASS
126
AREA
3761
HEIGHT
2450
27-Dec-2022
16:07
linh
pham

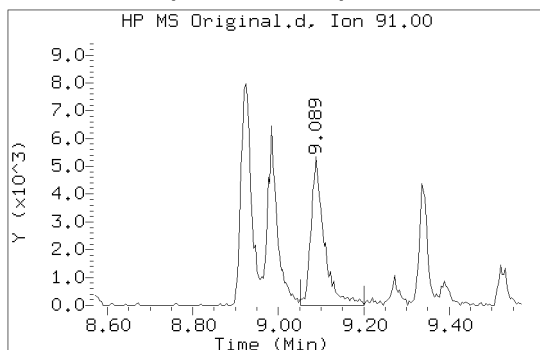
Reason Code:



4-Chlorotoluene (106-43-4)

BEFORE

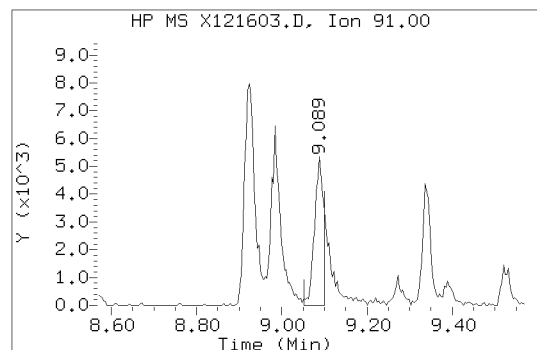
MASS
91
AREA
11481
HEIGHT
5337
27-Dec-2022
16:03
linh
pham



AFTER

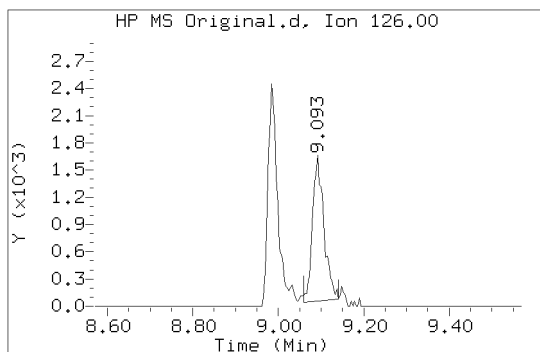
MASS
91
AREA
7644
HEIGHT
5337
27-Dec-2022
16:07
linh
pham

Reason Code:



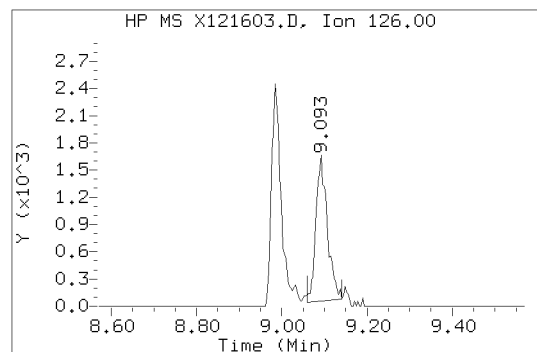
BEFORE

MASS
126
AREA
3008
HEIGHT
1612
27-Dec-2022
16:03
linh
pham



AFTER

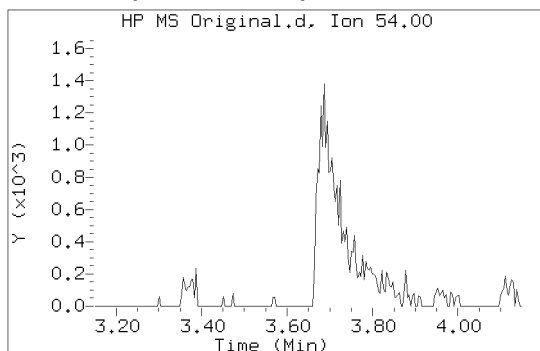
MASS
126
AREA
3008
HEIGHT
1612
27-Dec-2022
16:07
linh
pham



Propionitrile (107-12-0)

BEFORE

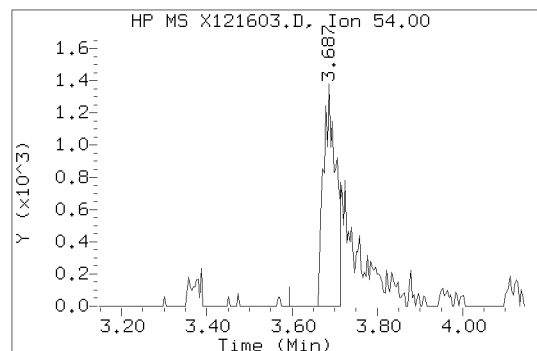
MASS
54
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
54
AREA
2777
HEIGHT
1380
27-Dec-2022
16:07
linh
pham

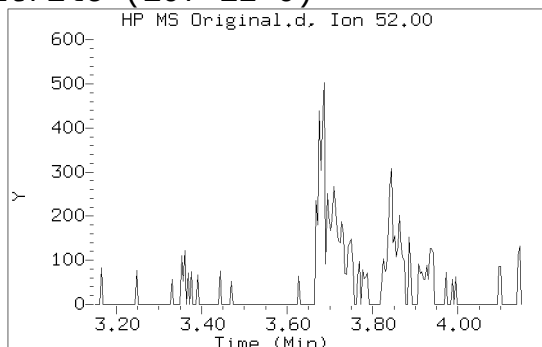
Reason Code:



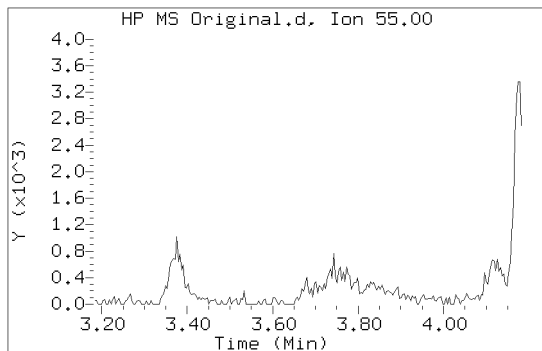
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)**BEFORE**

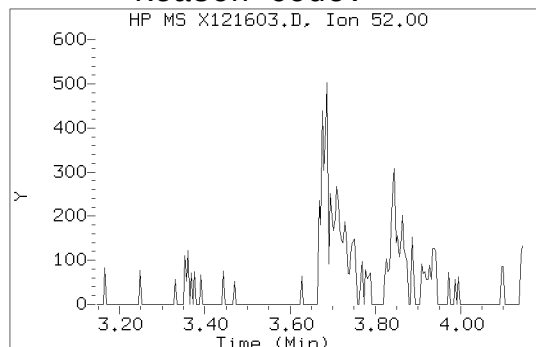
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh

**BEFORE**

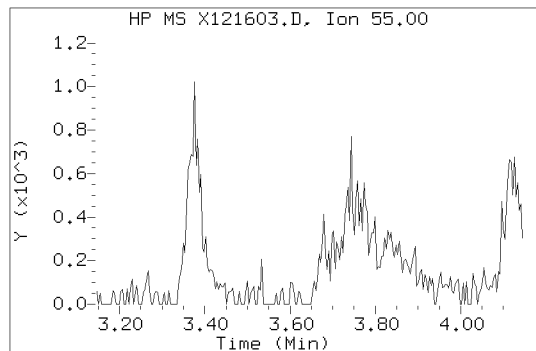
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

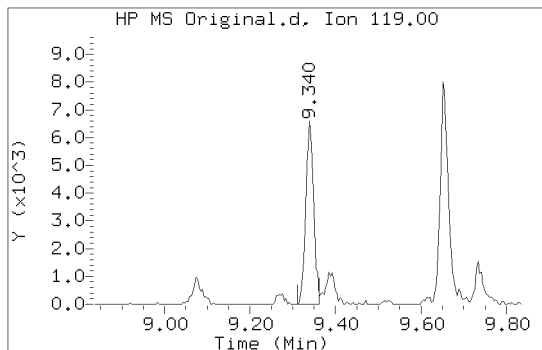
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh

**AFTER**

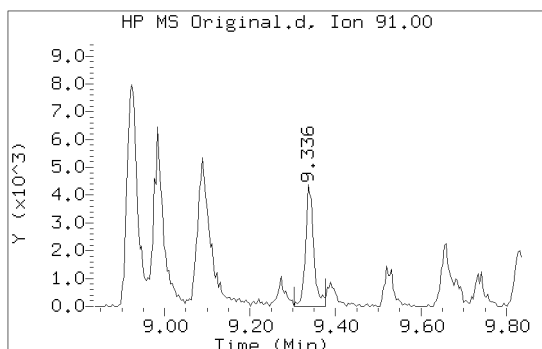
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

**Reason Code:****tert-Butylbenzene (98-06-6)****BEFORE**

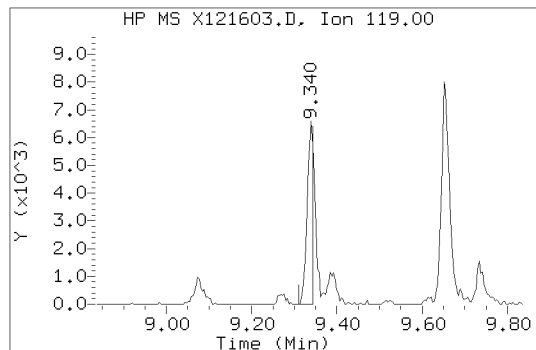
MASS
119
AREA
8660
HEIGHT
6598
27-Dec-2022
16:03
linh
pham

**BEFORE**

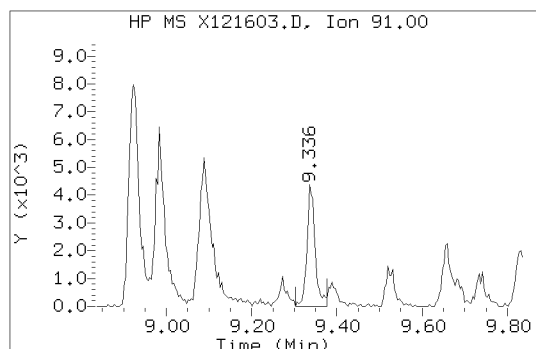
MASS
91
AREA
6013
HEIGHT
4378
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
119
AREA
6389
HEIGHT
6598
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
91
AREA
6013
HEIGHT
4378
27-Dec-2022
16:07
linh
pham

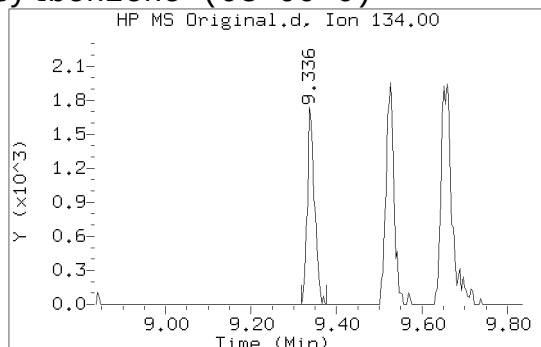
**Reason Code:**

Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

tert-Butylbenzene (98-06-6)

BEFORE

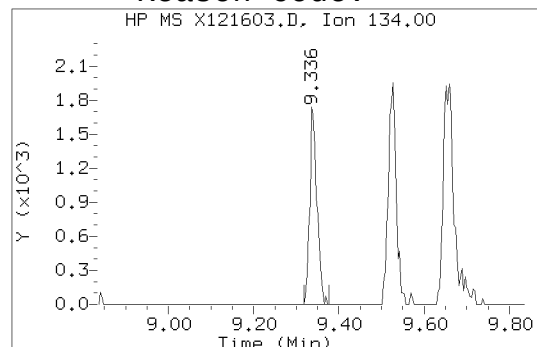
MASS
134
AREA
2112
HEIGHT
1740
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
2112
HEIGHT
1740
27-Dec-2022
16:07
linh
pham

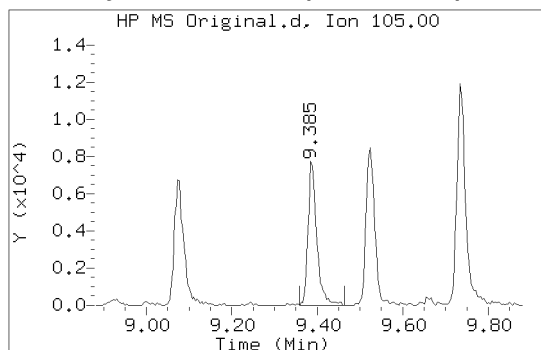
Reason Code:



1,2,4-Trimethylbenzene (95-63-6)

BEFORE

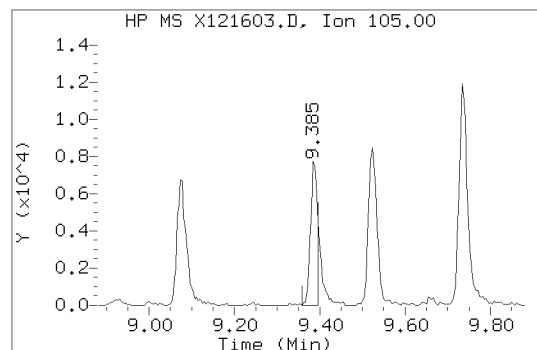
MASS
105
AREA
11065
HEIGHT
7775
27-Dec-2022
16:03
linh
pham



AFTER

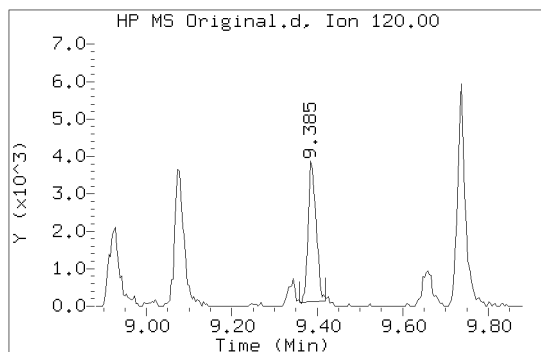
MASS
105
AREA
8496
HEIGHT
7775
27-Dec-2022
16:07
linh
pham

Reason Code:



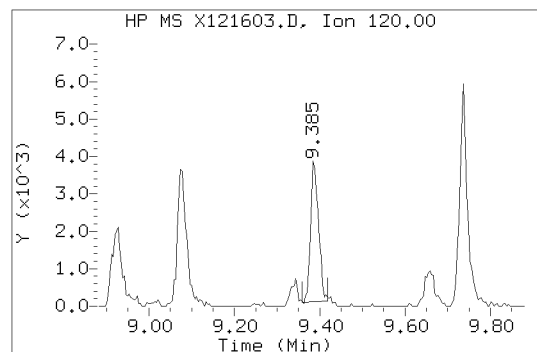
BEFORE

MASS
120
AREA
4898
HEIGHT
3773
27-Dec-2022
16:03
linh
pham



AFTER

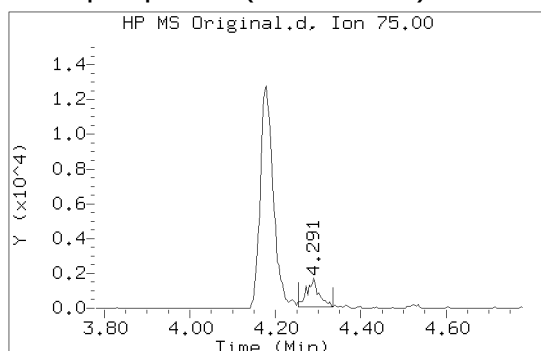
MASS
120
AREA
4898
HEIGHT
3773
27-Dec-2022
16:07
linh
pham



1,1-Dichloropropene (563-58-6)

BEFORE

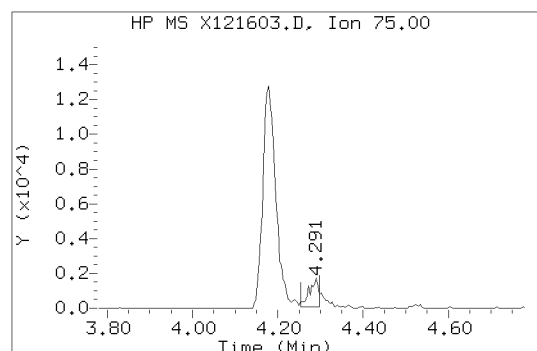
MASS
75
AREA
3235
HEIGHT
1674
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
2468
HEIGHT
1674
27-Dec-2022
16:07
linh
pham

Reason Code:

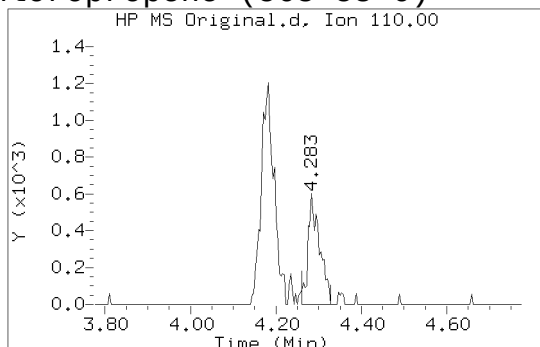


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloropropene (563-58-6)

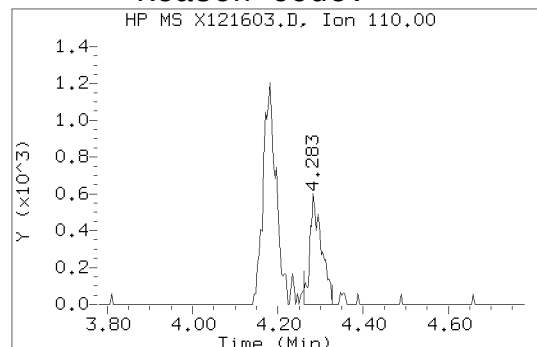
BEFORE

MASS
110
AREA
1143
HEIGHT
603
27-Dec-2022
16:03
linh



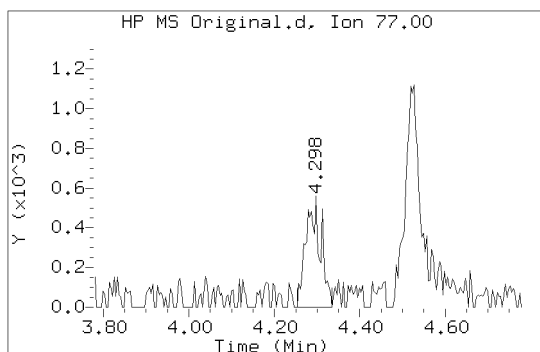
AFTER

MASS
110
AREA
1143
HEIGHT
603
27-Dec-2022
16:07
linh



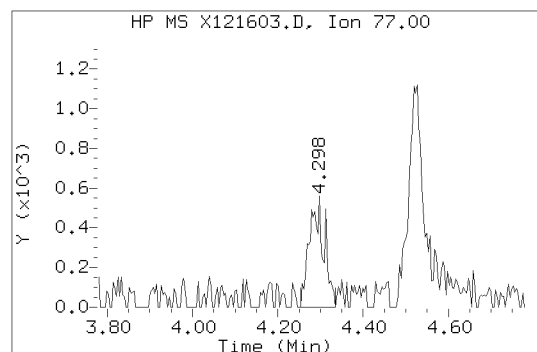
BEFORE

MASS
77
AREA
1342
HEIGHT
559
27-Dec-2022
16:03
linh
pham



AFTER

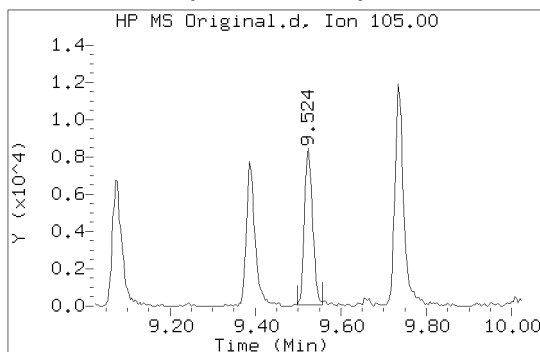
MASS
77
AREA
1342
HEIGHT
559
27-Dec-2022
16:07
linh
pham



sec-Butylbenzene (135-98-8)

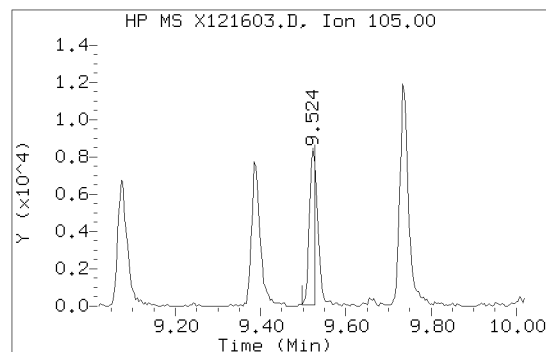
BEFORE

MASS
105
AREA
11512
HEIGHT
8394
27-Dec-2022
16:03
linh
pham



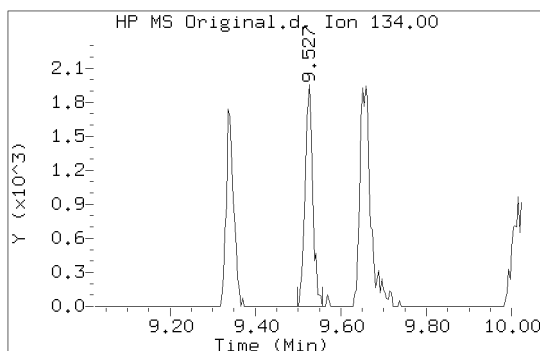
AFTER

MASS
105
AREA
7938
HEIGHT
8394
27-Dec-2022
16:07
linh
pham



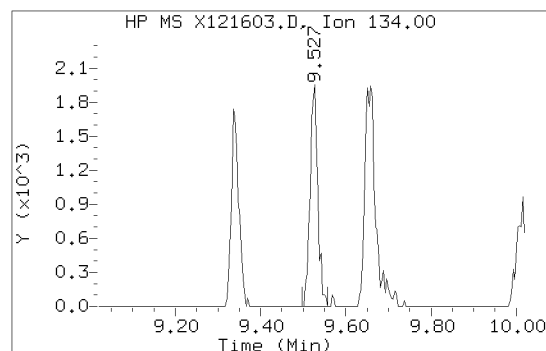
BEFORE

MASS
134
AREA
2519
HEIGHT
1955
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
2519
HEIGHT
1955
27-Dec-2022
16:07
linh
pham

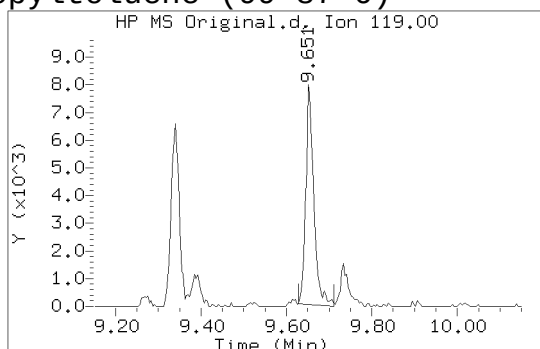


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

p-Isopropyltoluene (99-87-6)

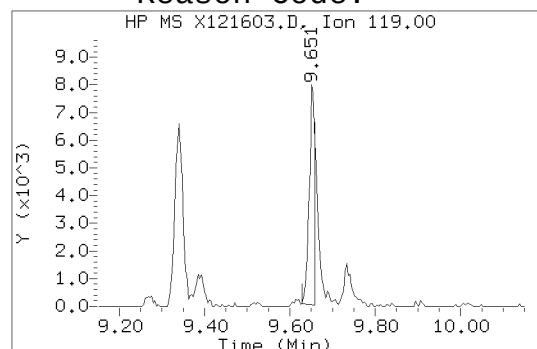
BEFORE

MASS
119
AREA
10660
HEIGHT
7944
27-Dec-2022
16:03
linh



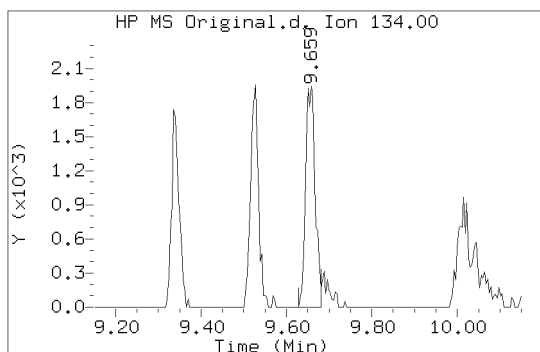
AFTER

MASS
119
AREA
7343
HEIGHT
7944
27-Dec-2022
16:07
linh



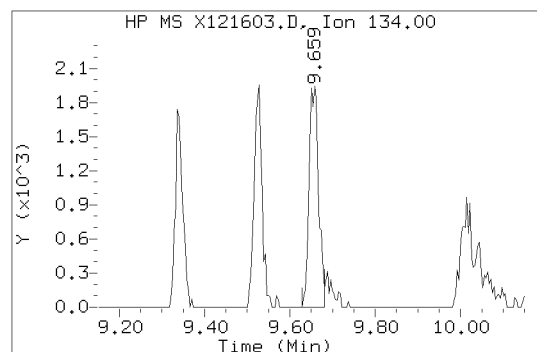
BEFORE

MASS
134
AREA
3102
HEIGHT
1946
27-Dec-2022
16:03
linh
pham



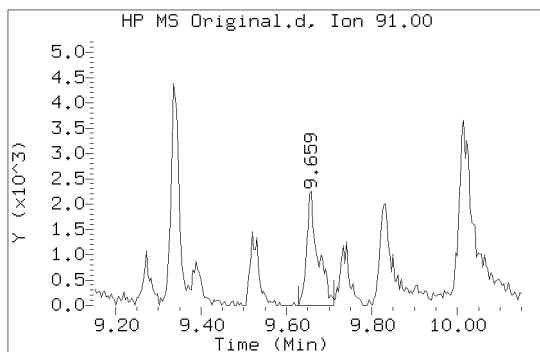
AFTER

MASS
134
AREA
3102
HEIGHT
1946
27-Dec-2022
16:07
linh
pham



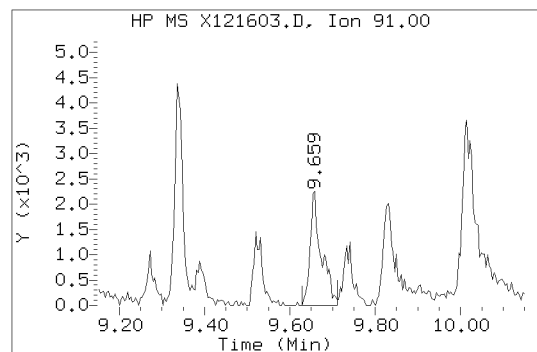
BEFORE

MASS
91
AREA
4191
HEIGHT
2256
27-Dec-2022
16:03
linh
pham



AFTER

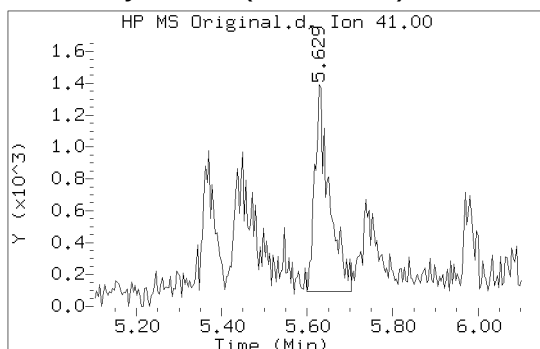
MASS
91
AREA
4191
HEIGHT
2256
27-Dec-2022
16:07
linh
pham



Methyl Methacrylate (80-62-6)

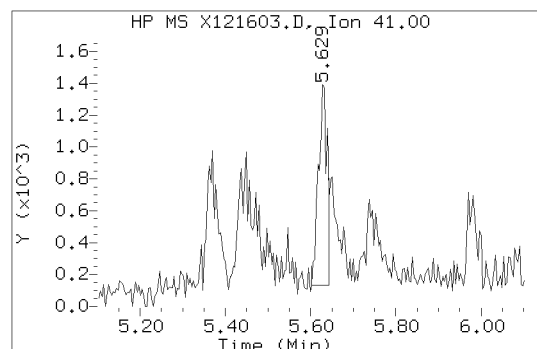
BEFORE

MASS
41
AREA
3067
HEIGHT
1299
27-Dec-2022
16:03
linh
pham



AFTER

MASS
41
AREA
1788
HEIGHT
1257
27-Dec-2022
16:07
linh
pham

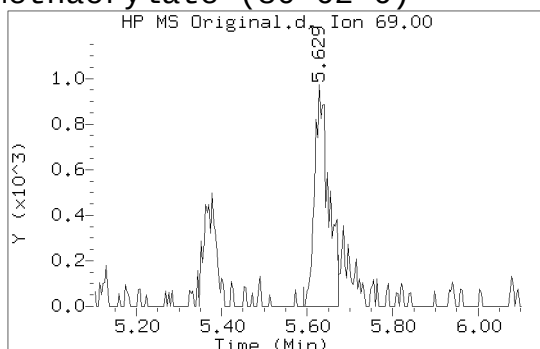


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl Methacrylate (80-62-6)

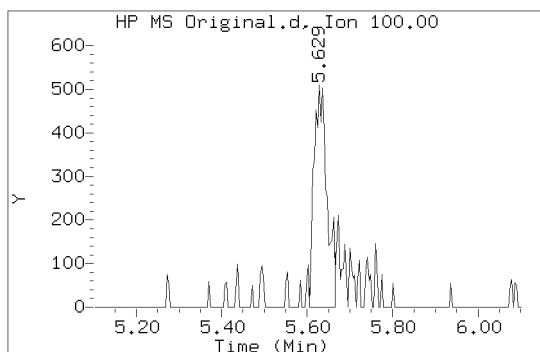
BEFORE

MASS
69
AREA
2216
HEIGHT
973
27-Dec-2022
16:03
linh



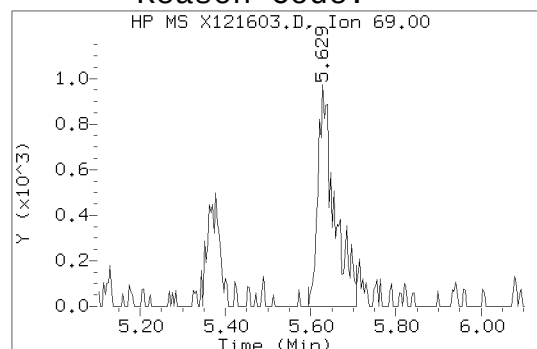
BEFORE

MASS
100
AREA
1074
HEIGHT
510
27-Dec-2022
16:03
linh
pham



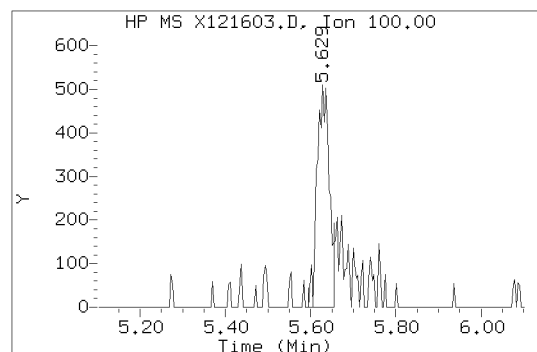
AFTER

MASS
69
AREA
2595
HEIGHT
973
27-Dec-2022
16:07
linh



AFTER

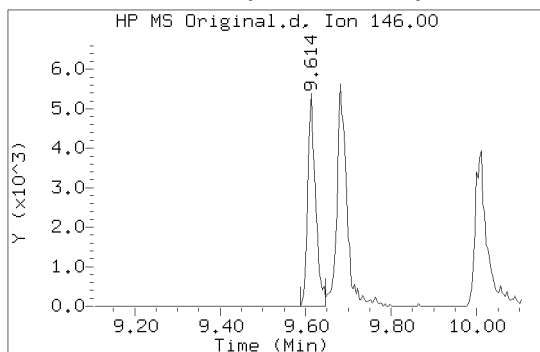
MASS
100
AREA
1011
HEIGHT
510
27-Dec-2022
16:07
linh
pham



1,3-Dichlorobenzene (541-73-1)

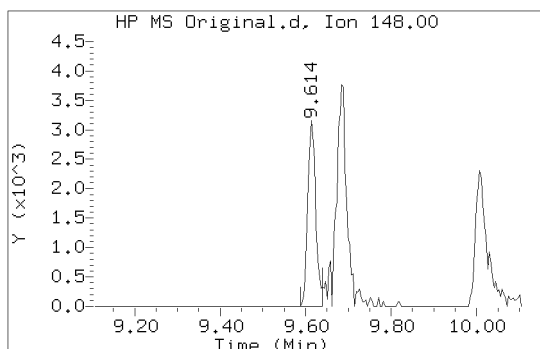
BEFORE

MASS
146
AREA
6964
HEIGHT
5387
27-Dec-2022
16:03
linh
pham



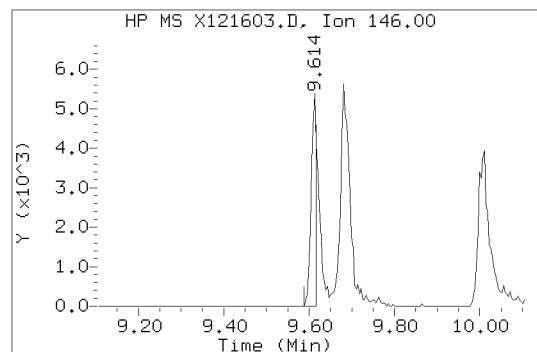
BEFORE

MASS
148
AREA
4216
HEIGHT
3157
27-Dec-2022
16:03
linh
pham



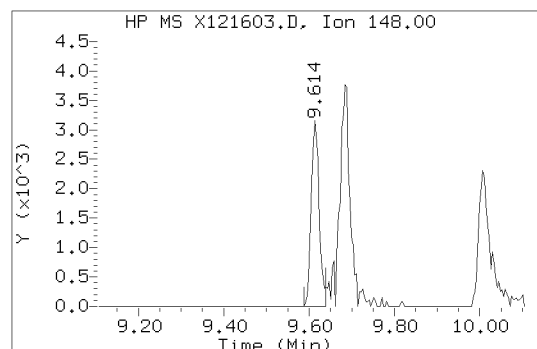
AFTER

MASS
146
AREA
4677
HEIGHT
5387
27-Dec-2022
16:07
linh
pham



AFTER

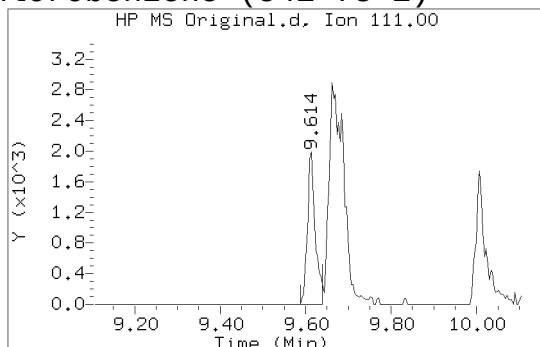
MASS
148
AREA
4216
HEIGHT
3157
27-Dec-2022
16:07
linh
pham



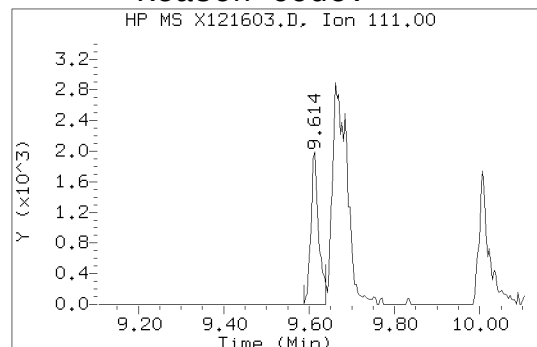
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,3-Dichlorobenzene (541-73-1)**BEFORE**

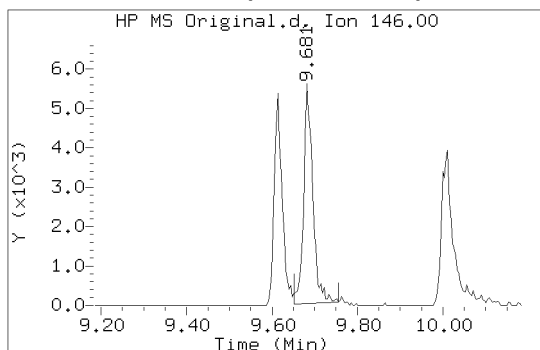
MASS
111
AREA
2596
HEIGHT
1995
27-Dec-2022
16:03
linh
pham

**AFTER**

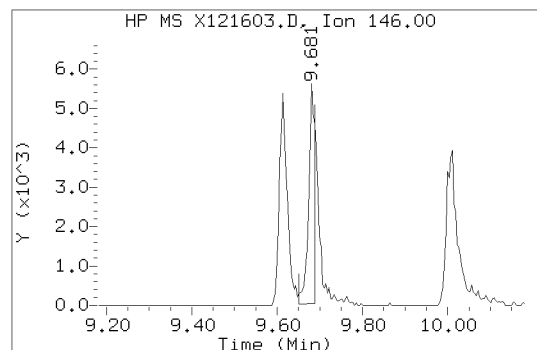
MASS
111
AREA
2596
HEIGHT
1995
27-Dec-2022
16:07
linh
pham

Reason Code:**1,4-Dichlorobenzene (106-46-7)****BEFORE**

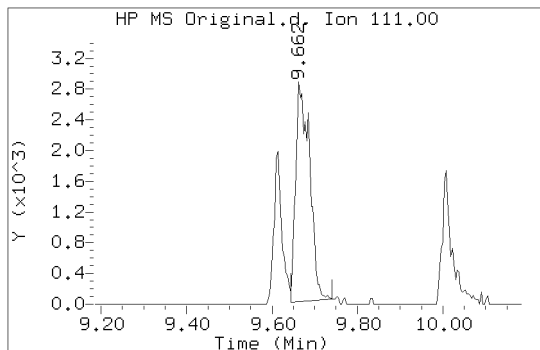
MASS
146
AREA
8510
HEIGHT
5586
27-Dec-2022
16:03
linh
pham

**AFTER**

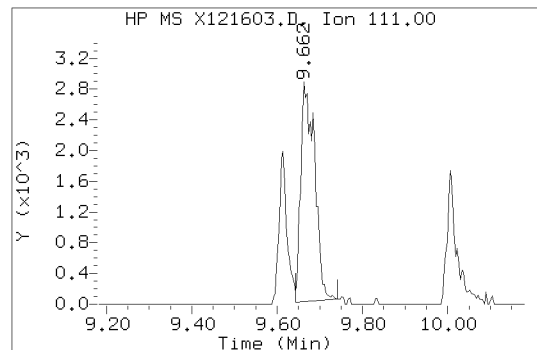
MASS
146
AREA
5674
HEIGHT
5587
27-Dec-2022
16:07
linh
pham

Reason Code:**BEFORE**

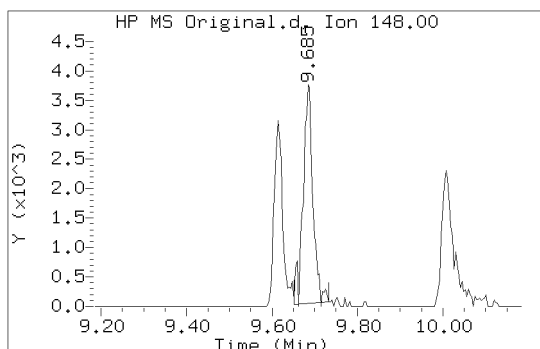
MASS
111
AREA
6571
HEIGHT
2862
27-Dec-2022
16:03
linh
pham

**AFTER**

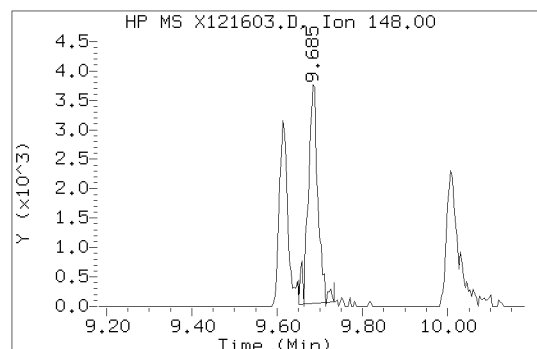
MASS
111
AREA
6571
HEIGHT
2862
27-Dec-2022
16:07
linh
pham

**BEFORE**

MASS
148
AREA
6083
HEIGHT
3714
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
148
AREA
6083
HEIGHT
3714
27-Dec-2022
16:07
linh
pham

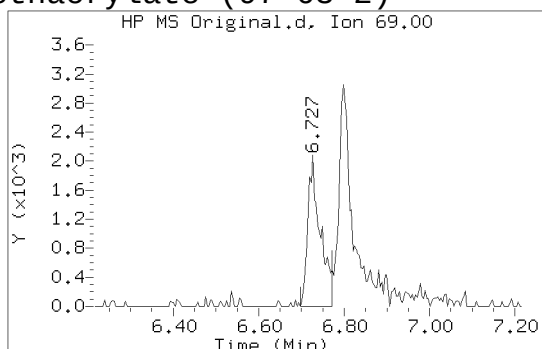


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

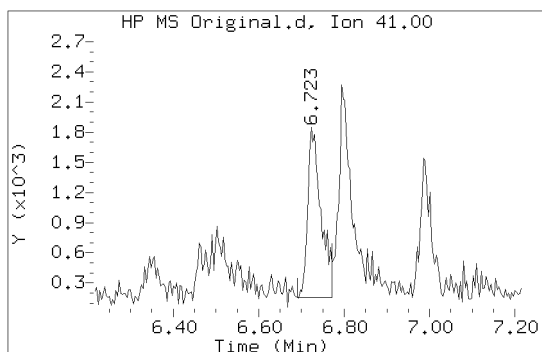
BEFORE

MASS
69
AREA
4283
HEIGHT
2083
27-Dec-2022
16:03
linh



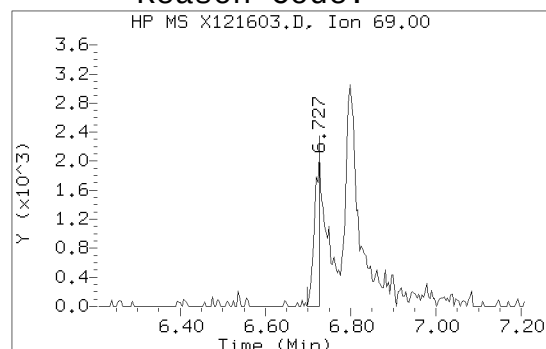
BEFORE

MASS
41
AREA
3701
HEIGHT
1688
27-Dec-2022
16:03
linh
pham



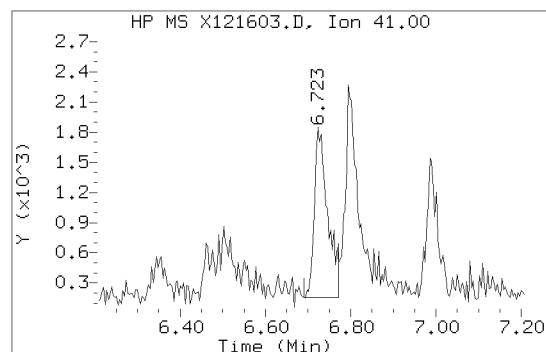
AFTER

MASS
69
AREA
1935
HEIGHT
2083
27-Dec-2022
16:07
linh



AFTER

MASS
41
AREA
3701
HEIGHT
1688
27-Dec-2022
16:07
linh
pham

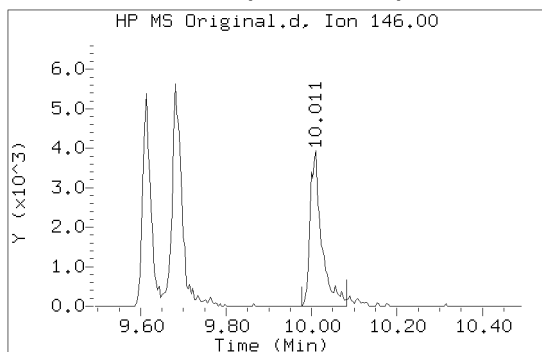


Reason Code:

1,2-Dichlorobenzene (95-50-1)

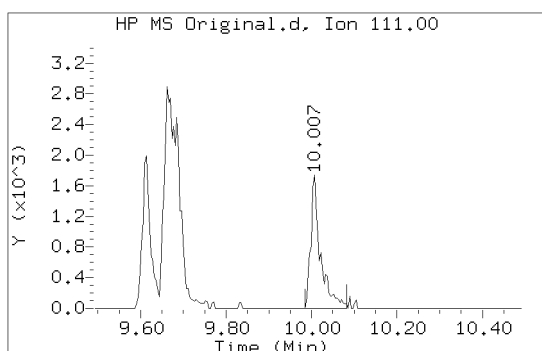
BEFORE

MASS
146
AREA
7400
HEIGHT
3934
27-Dec-2022
16:03
linh
pham



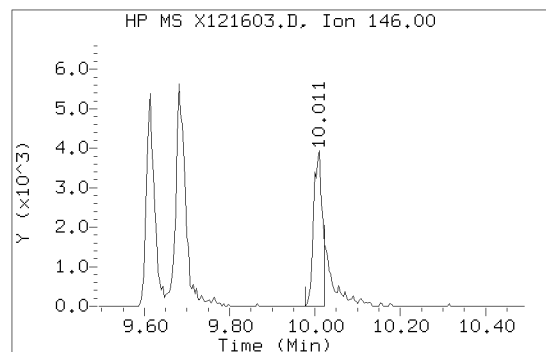
BEFORE

MASS
111
AREA
2768
HEIGHT
1741
27-Dec-2022
16:03
linh
pham



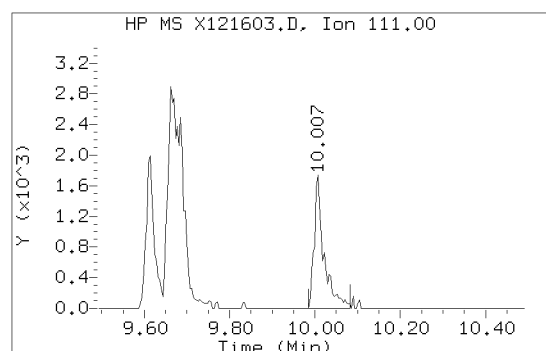
AFTER

MASS
146
AREA
5504
HEIGHT
3934
27-Dec-2022
16:07
linh
pham



AFTER

MASS
111
AREA
2768
HEIGHT
1741
27-Dec-2022
16:07
linh
pham



Reason Code:

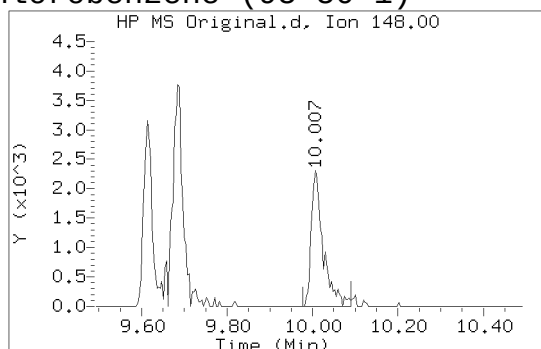


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichlorobenzene (95-50-1)

BEFORE

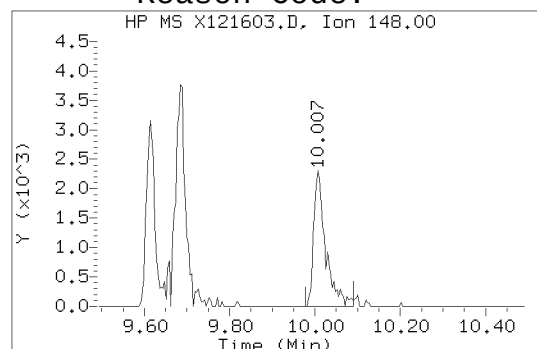
MASS
148
AREA
4515
HEIGHT
2306
27-Dec-2022
16:03
linh
pham



AFTER

MASS
148
AREA
4515
HEIGHT
2306
27-Dec-2022
16:07
linh
pham

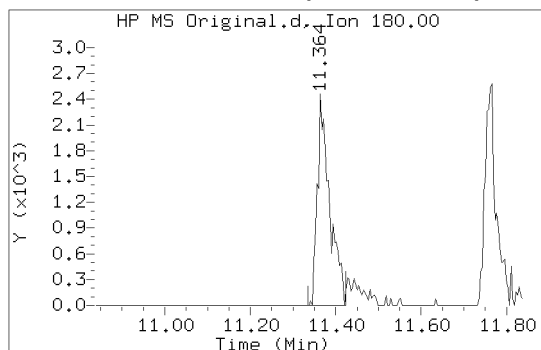
Reason Code:



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

BEFORE

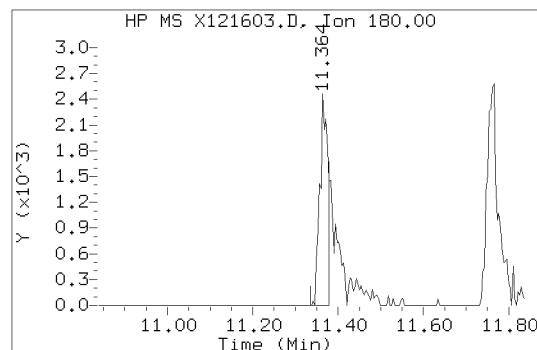
MASS
180
AREA
4912
HEIGHT
2459
27-Dec-2022
16:03
linh
pham



AFTER

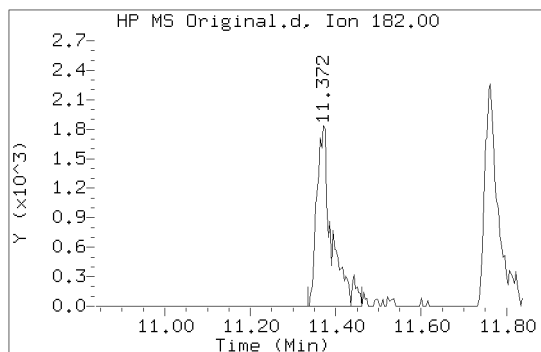
MASS
180
AREA
3187
HEIGHT
2459
27-Dec-2022
16:07
linh
pham

Reason Code:



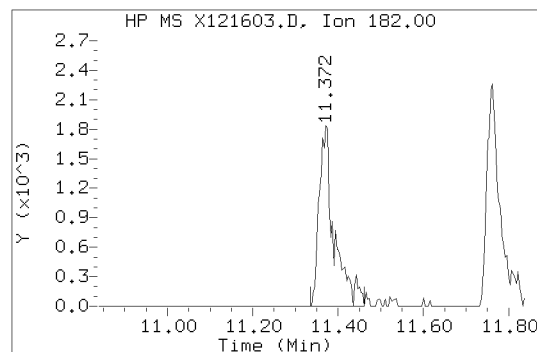
BEFORE

MASS
182
AREA
4514
HEIGHT
1835
27-Dec-2022
16:03
linh
pham



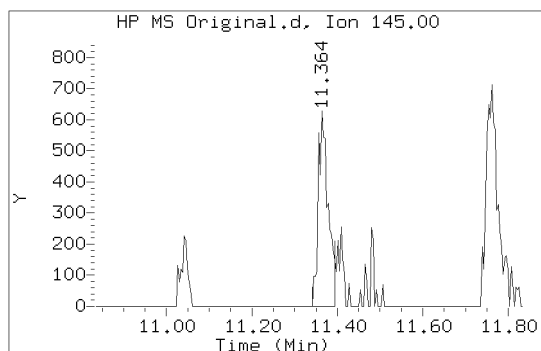
AFTER

MASS
182
AREA
4514
HEIGHT
1835
27-Dec-2022
16:07
linh
pham



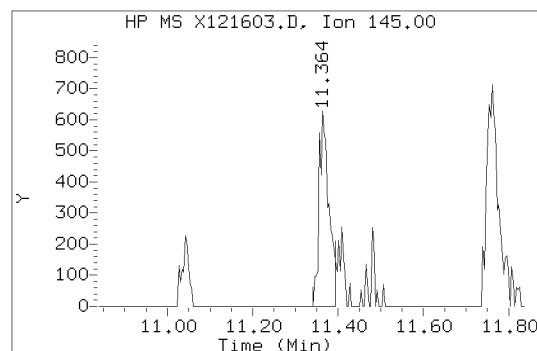
BEFORE

MASS
145
AREA
1003
HEIGHT
629
27-Dec-2022
16:03
linh
pham



AFTER

MASS
145
AREA
1003
HEIGHT
629
27-Dec-2022
16:07
linh
pham

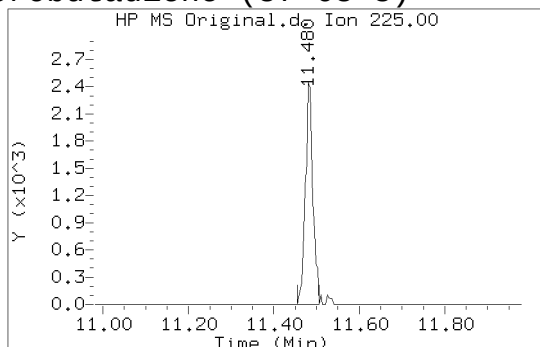


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Hexachlorobutadiene (87-68-3)

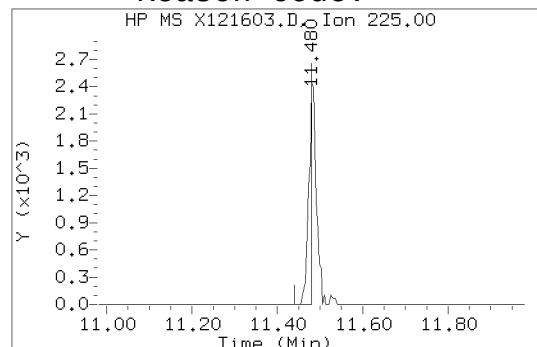
BEFORE

MASS
225
AREA
3038
HEIGHT
2444
27-Dec-2022
16:03
linh



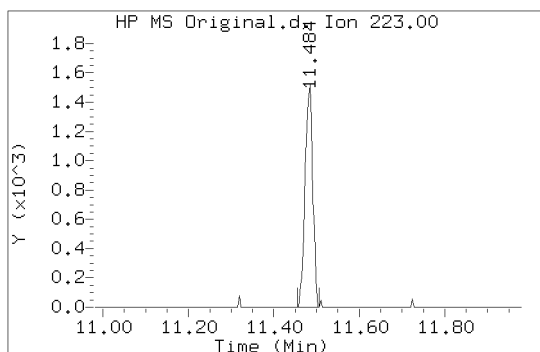
AFTER

MASS
225
AREA
1477
HEIGHT
2444
27-Dec-2022
16:07
linh



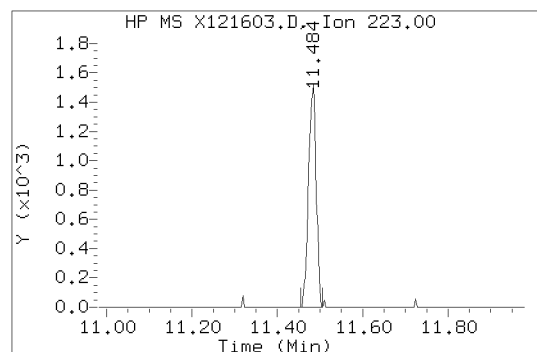
BEFORE

MASS
223
AREA
1952
HEIGHT
1518
27-Dec-2022
16:03
linh
pham



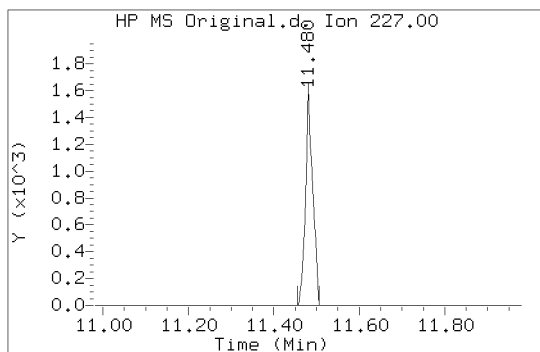
AFTER

MASS
223
AREA
1952
HEIGHT
1518
27-Dec-2022
16:07
linh
pham



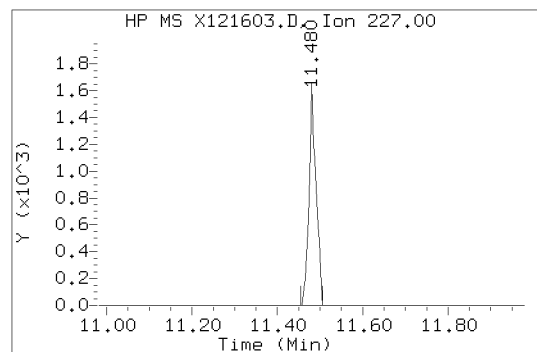
BEFORE

MASS
227
AREA
1938
HEIGHT
1652
27-Dec-2022
16:03
linh
pham



AFTER

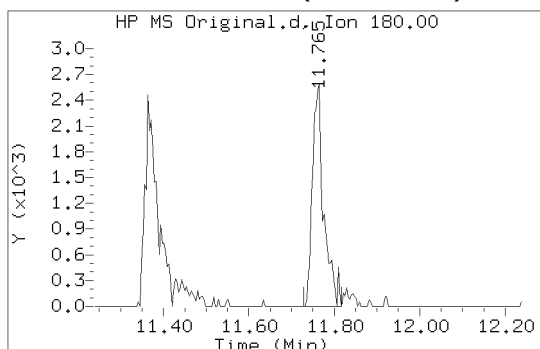
MASS
227
AREA
1938
HEIGHT
1652
27-Dec-2022
16:07
linh
pham



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

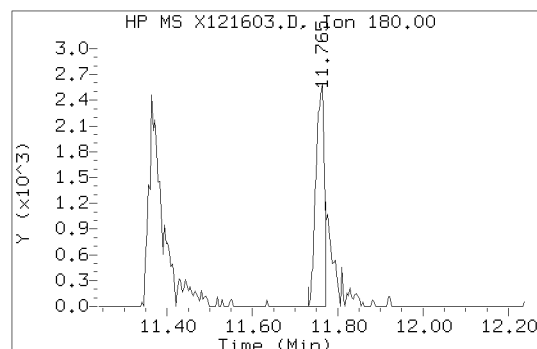
BEFORE

MASS
180
AREA
4741
HEIGHT
2580
27-Dec-2022
16:03
linh
pham



AFTER

MASS
180
AREA
3572
HEIGHT
2580
27-Dec-2022
16:07
linh
pham

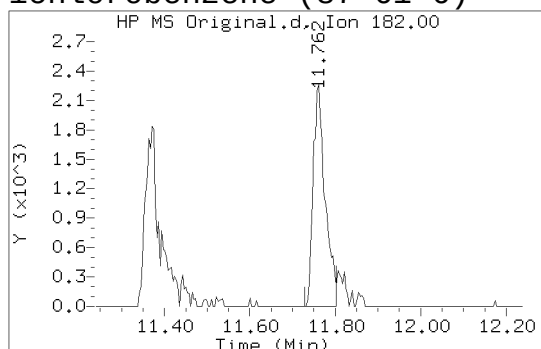


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

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

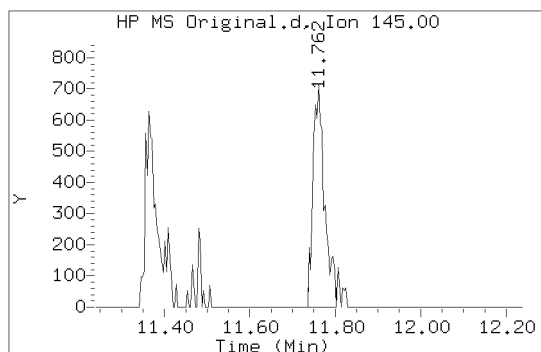
BEFORE

MASS
182
AREA
4404
HEIGHT
2261
27-Dec-2022
16:03
linh



BEFORE

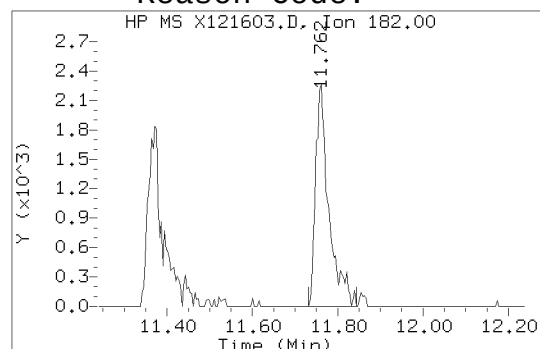
MASS
145
AREA
1338
HEIGHT
713
27-Dec-2022
16:03
linh
pham



AFTER

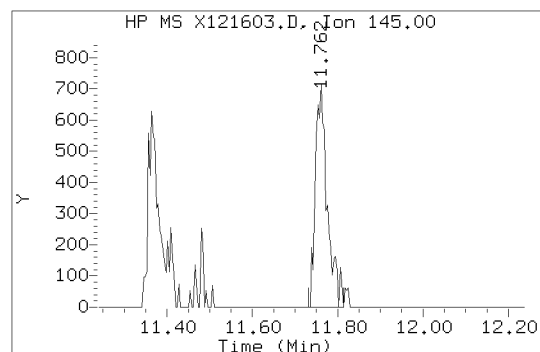
MASS
182
AREA
4881
HEIGHT
2261
27-Dec-2022
16:07
linh

Reason Code:



AFTER

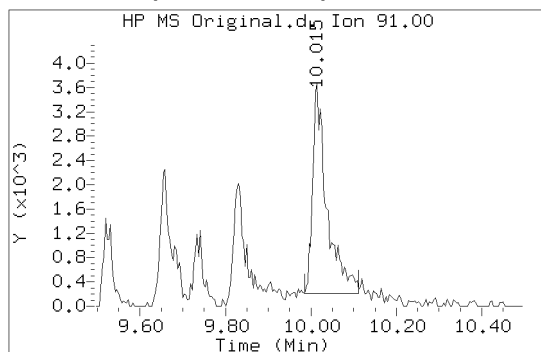
MASS
145
AREA
1384
HEIGHT
713
27-Dec-2022
16:07
linh
pham



n-Butylbenzene (104-51-8)

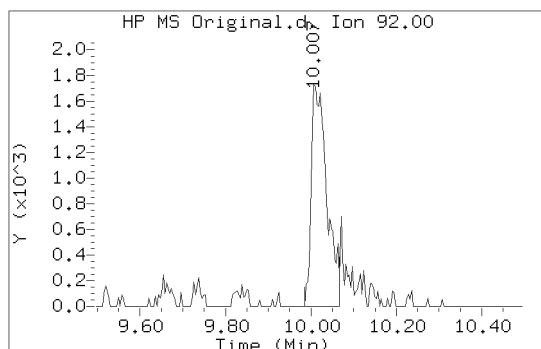
BEFORE

MASS
91
AREA
8005
HEIGHT
3451
27-Dec-2022
16:03
linh
pham



BEFORE

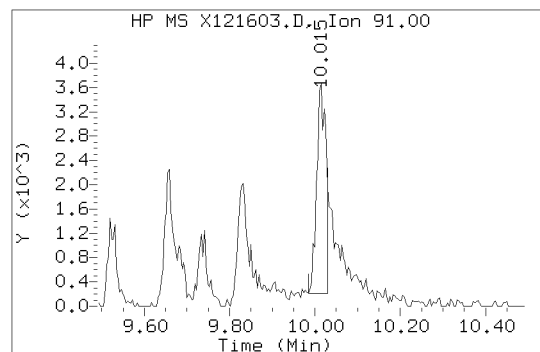
MASS
92
AREA
4404
HEIGHT
1727
27-Dec-2022
16:03
linh
pham



AFTER

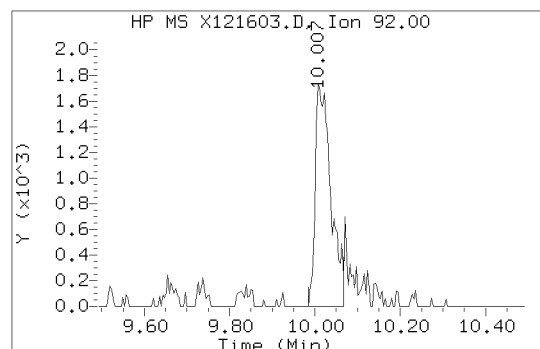
MASS
91
AREA
5149
HEIGHT
3451
27-Dec-2022
16:07
linh
pham

Reason Code:



AFTER

MASS
92
AREA
4404
HEIGHT
1727
27-Dec-2022
16:07
linh
pham

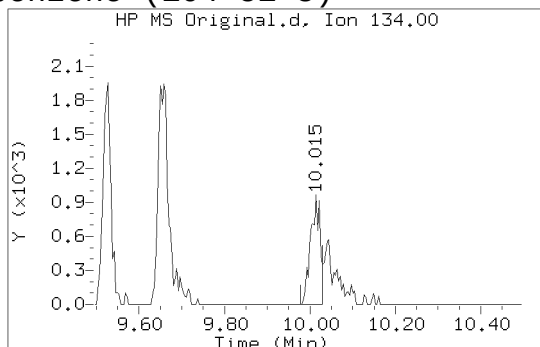


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butylbenzene (104-51-8)

BEFORE

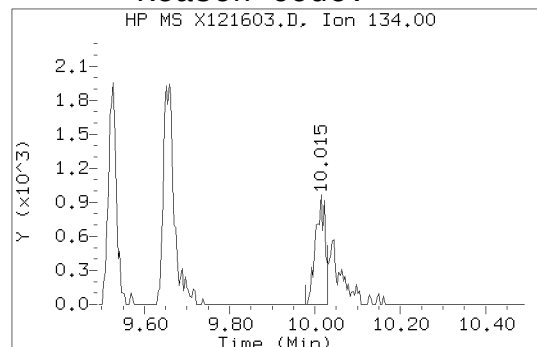
MASS
134
AREA
1502
HEIGHT
969
27-Dec-2022
16:03
linh
pham



AFTER

MASS
134
AREA
1502
HEIGHT
969
27-Dec-2022
16:07
linh
pham

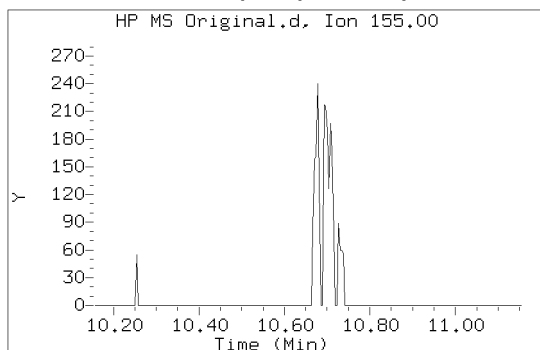
Reason Code:



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

BEFORE

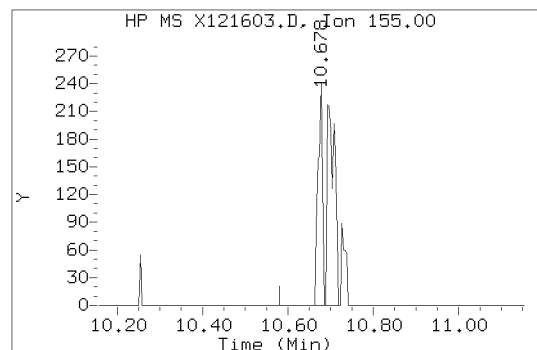
MASS
155
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

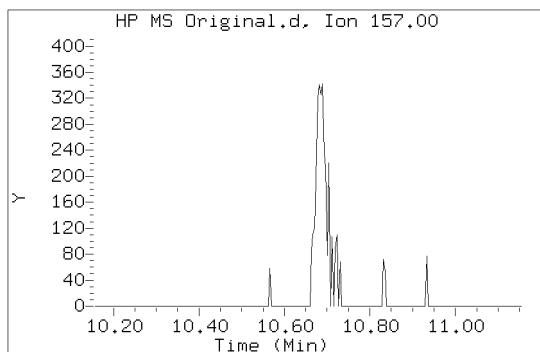
MASS
155
AREA
441
HEIGHT
240
27-Dec-2022
16:07
linh
pham

Reason Code:



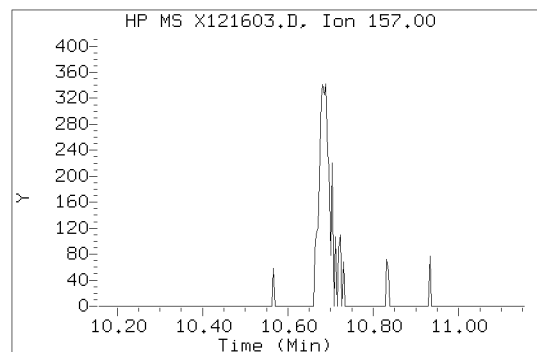
BEFORE

MASS
157
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



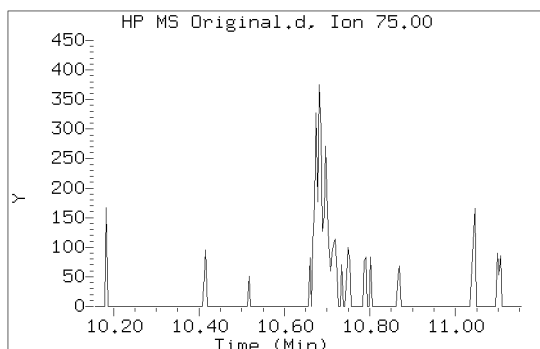
AFTER

MASS
157
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



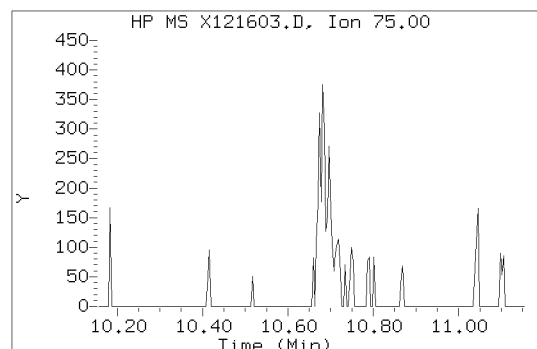
BEFORE

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

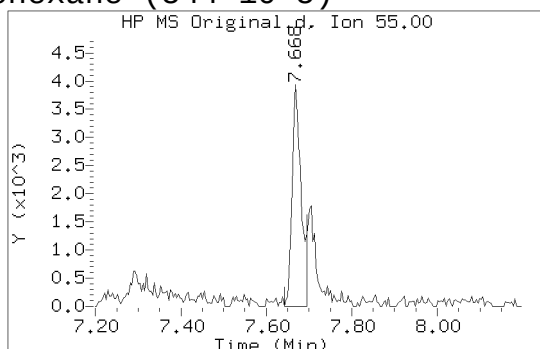
MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



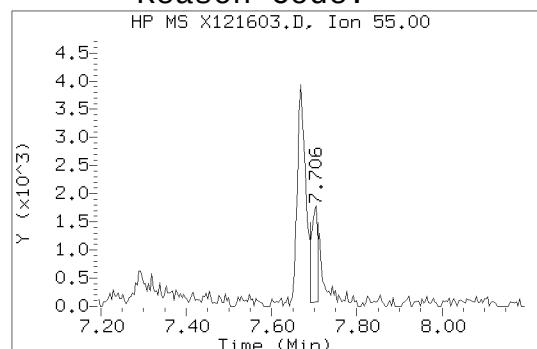
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

1-Chlorohexane (544-10-5)**BEFORE**

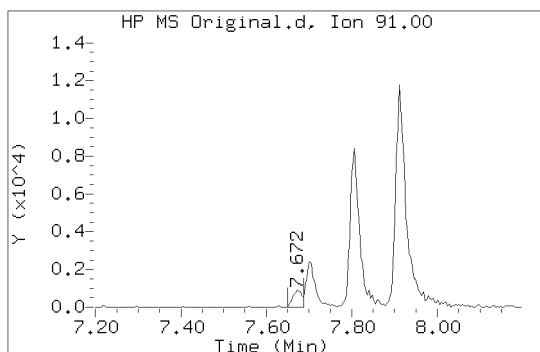
MASS
55
AREA
5785
HEIGHT
3936
27-Dec-2022
16:03
linh

**AFTER**

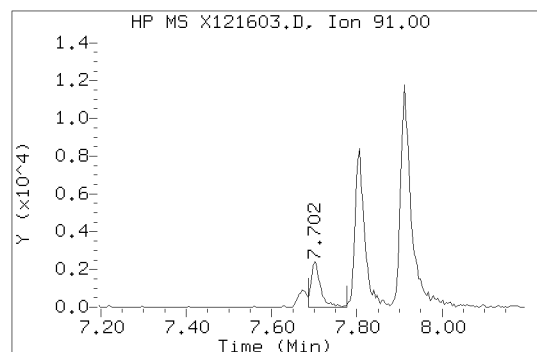
MASS
55
AREA
1829
HEIGHT
1707
27-Dec-2022
16:07
linh

**BEFORE**

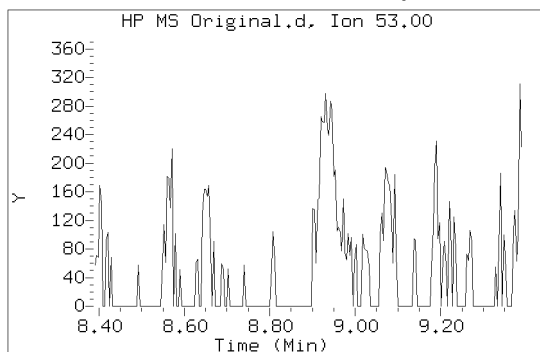
MASS
91
AREA
1355
HEIGHT
933
27-Dec-2022
16:03
linh
pham

**AFTER**

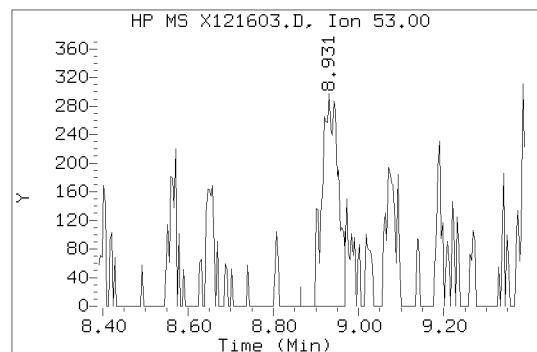
MASS
91
AREA
3802
HEIGHT
2430
27-Dec-2022
16:07
linh
pham

**trans-1,4-Dichloro-2-butene (110-57-6)****BEFORE**

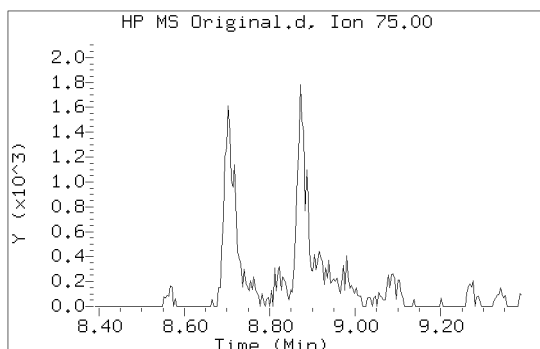
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

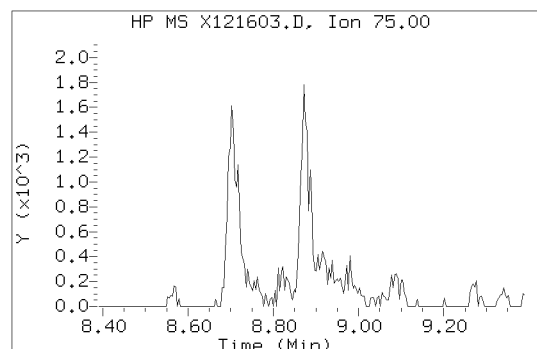
MASS
53
AREA
792
HEIGHT
298
27-Dec-2022
16:07
linh
pham

**BEFORE**

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

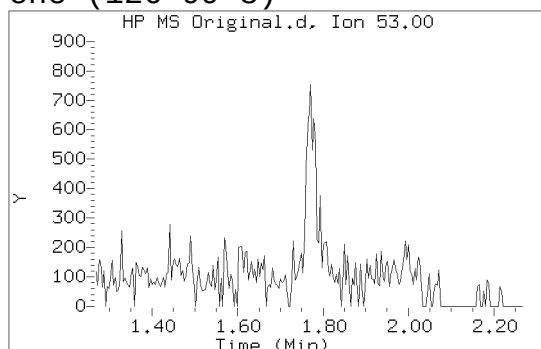


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroprene (126-99-8)

BEFORE

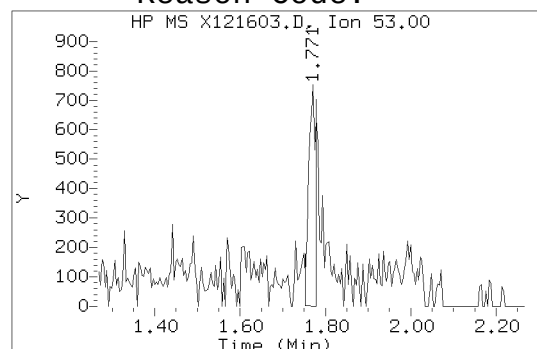
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh



AFTER

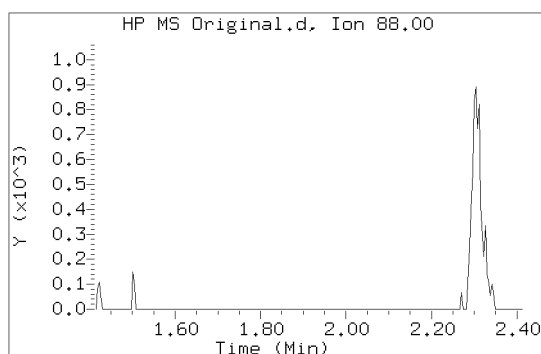
MASS
53
AREA
900
HEIGHT
751
27-Dec-2022
16:07
linh

Reason Code:



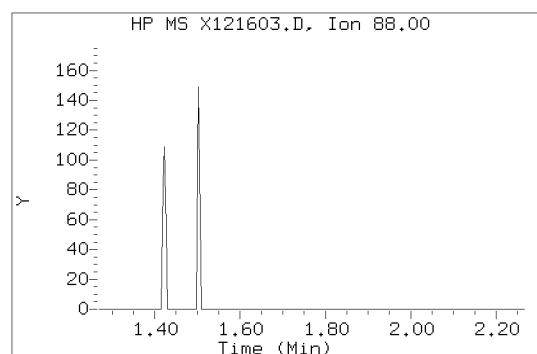
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

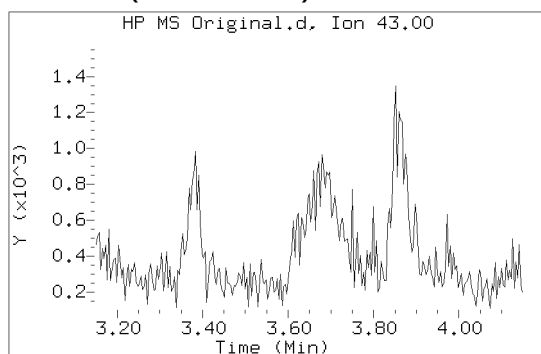
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Ethyl Acetate (141-78-6)

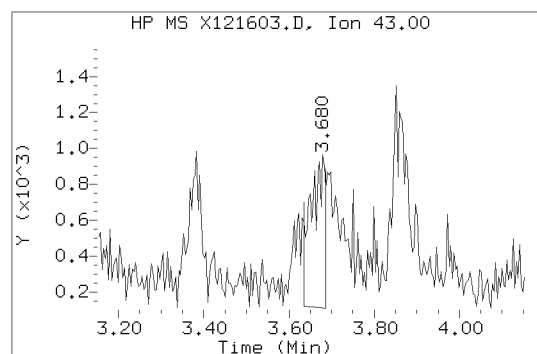
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



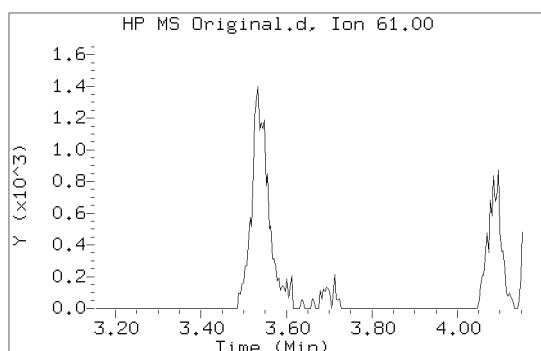
AFTER

MASS
43
AREA
2065
HEIGHT
853
27-Dec-2022
16:07
linh
pham



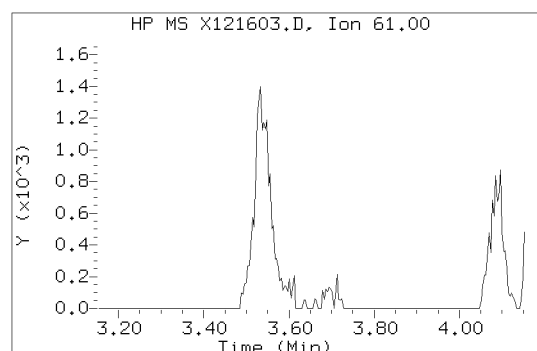
BEFORE

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

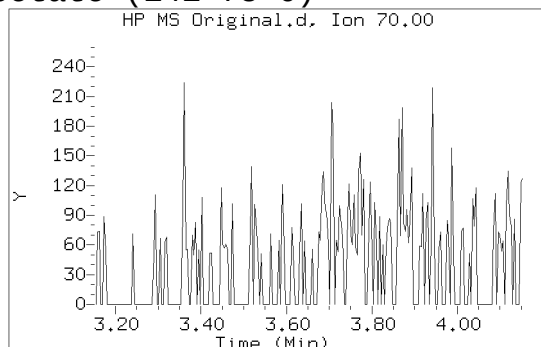


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acetate (141-78-6)

BEFORE

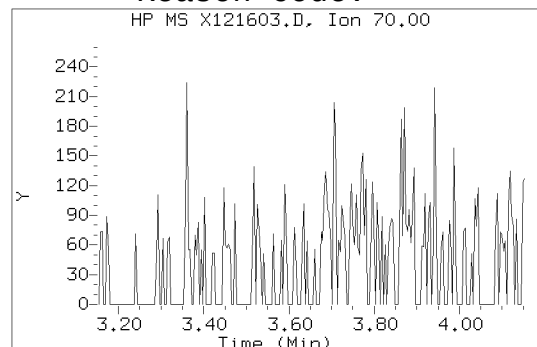
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

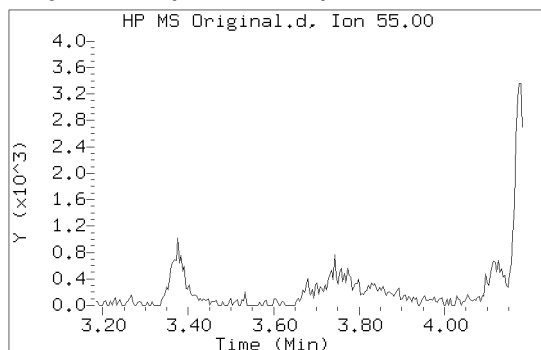
Reason Code:



Methyl Acrylate (96-33-3)

BEFORE

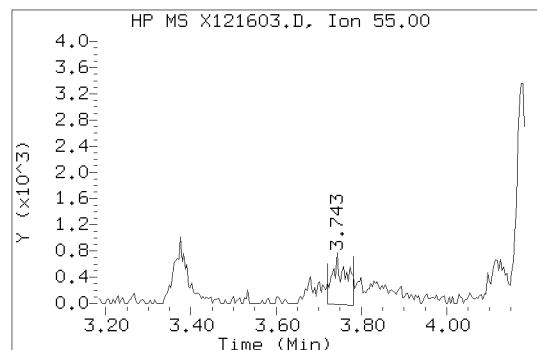
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

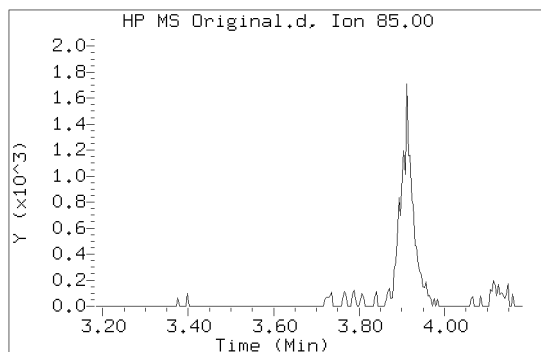
MASS
55
AREA
1765
HEIGHT
787
27-Dec-2022
16:07
linh
pham

Reason Code:



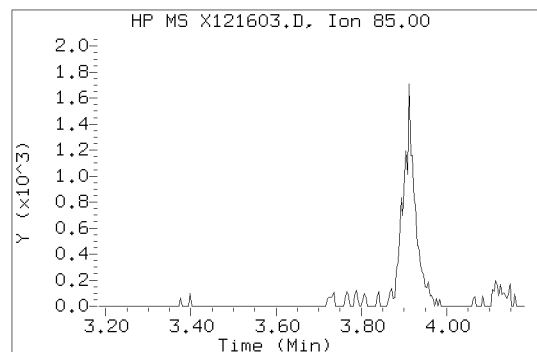
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

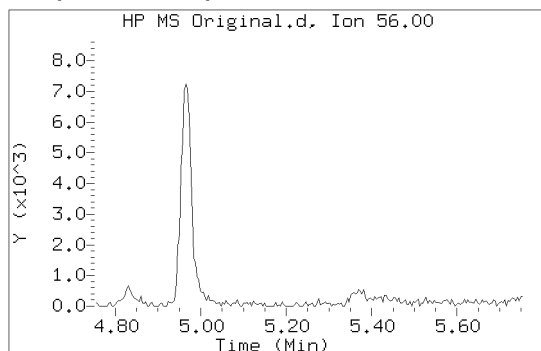
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



n-Butanol (71-36-3)

BEFORE

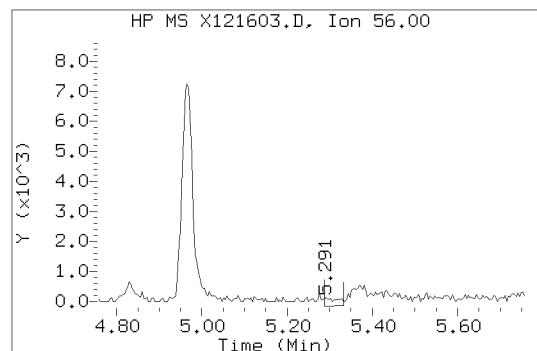
MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
56
AREA
622
HEIGHT
300
27-Dec-2022
16:07
linh
pham

Reason Code:

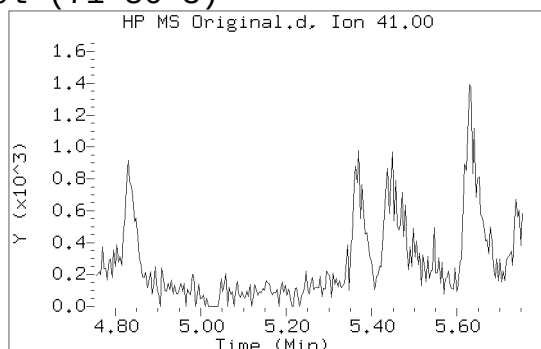


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

n-Butanol (71-36-3)

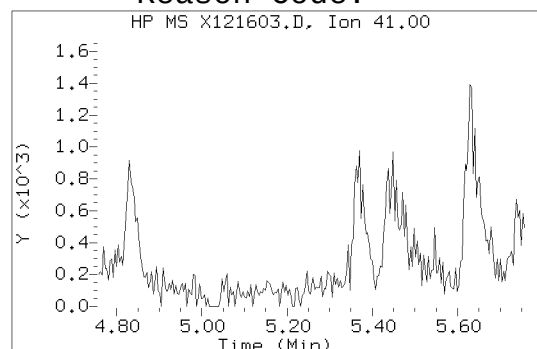
BEFORE

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

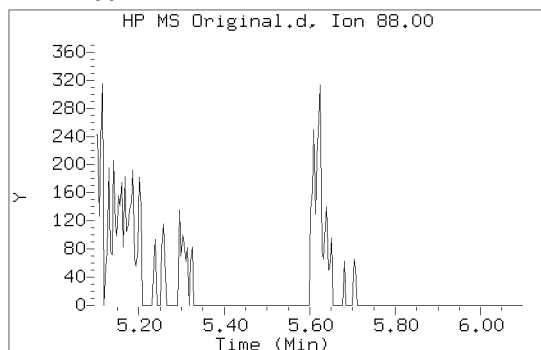
MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



1,4-Dioxane ()

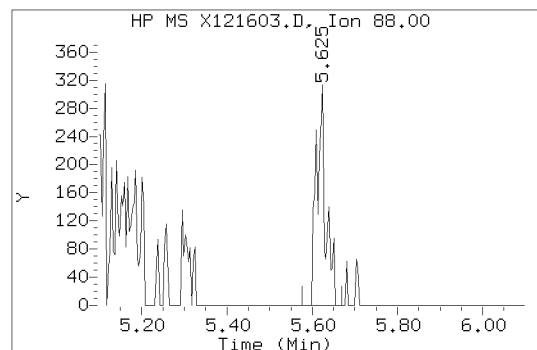
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



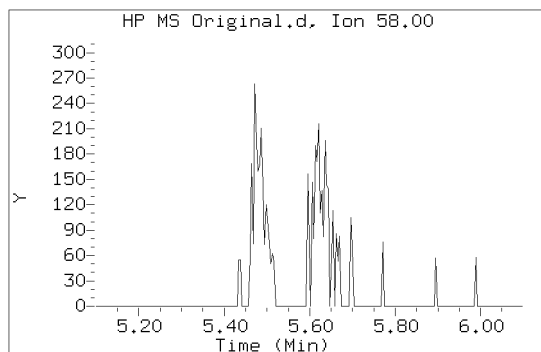
AFTER

MASS
88
AREA
462
HEIGHT
313
27-Dec-2022
16:07
linh
pham



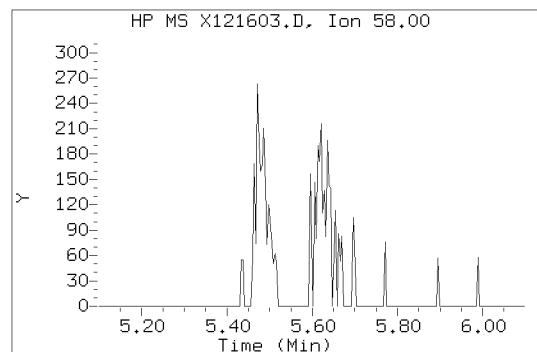
BEFORE

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

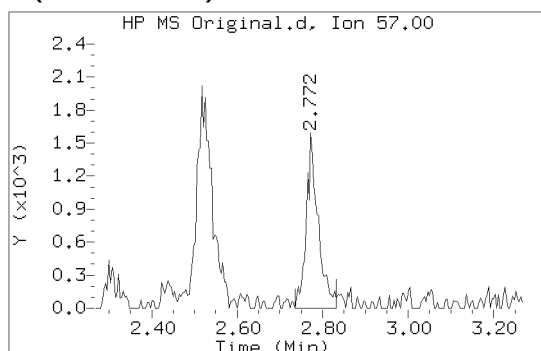
MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



n-Hexane (110-54-3)

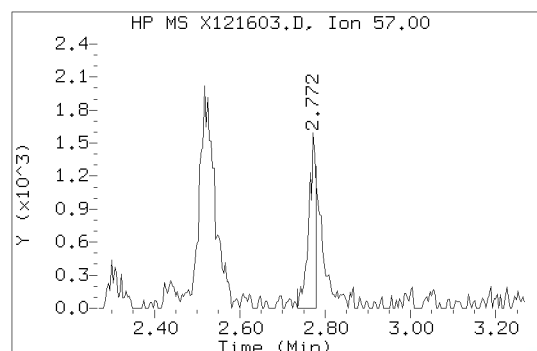
BEFORE

MASS
57
AREA
3089
HEIGHT
1591
27-Dec-2022
16:03
linh
pham



AFTER

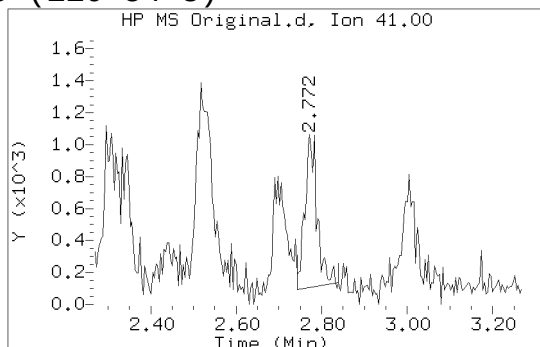
MASS
57
AREA
1909
HEIGHT
1591
27-Dec-2022
16:07
linh
pham



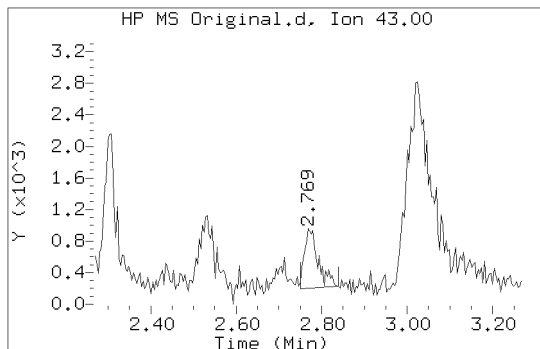
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

n-Hexane (110-54-3)**BEFORE**

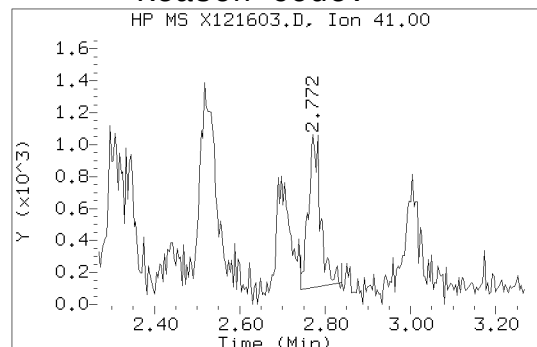
MASS
41
AREA
1918
HEIGHT
958
27-Dec-2022
16:03
linh

**BEFORE**

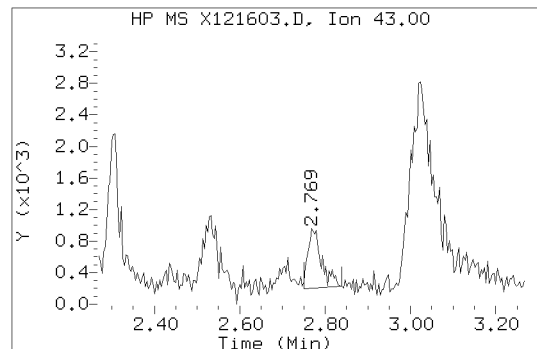
MASS
43
AREA
1726
HEIGHT
759
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

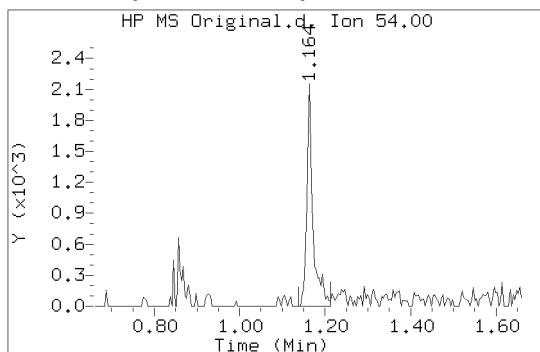
MASS
41
AREA
1918
HEIGHT
958
27-Dec-2022
16:07
linh

**AFTER**

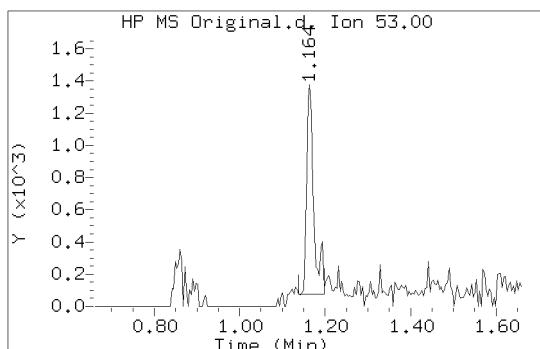
MASS
43
AREA
1726
HEIGHT
759
27-Dec-2022
16:07
linh
pham

**1,3-Butadiene (106-99-0)****BEFORE**

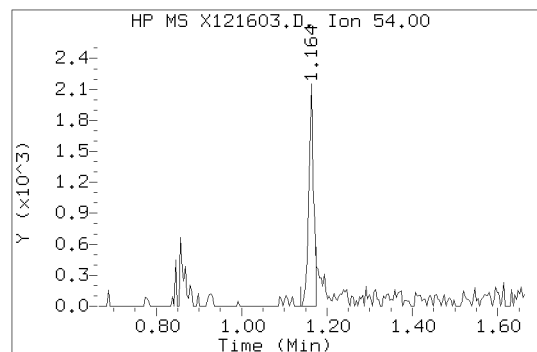
MASS
54
AREA
2206
HEIGHT
2153
27-Dec-2022
16:03
linh
pham

**BEFORE**

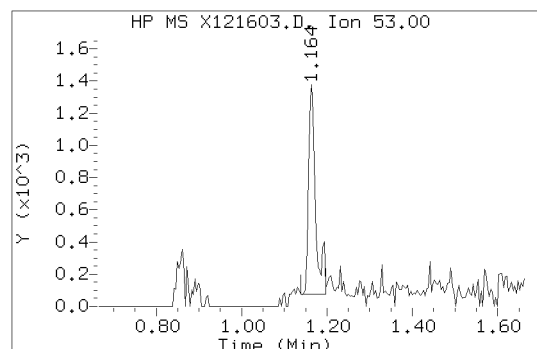
MASS
53
AREA
1535
HEIGHT
1301
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

MASS
54
AREA
1793
HEIGHT
2153
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
53
AREA
1535
HEIGHT
1301
27-Dec-2022
16:07
linh
pham

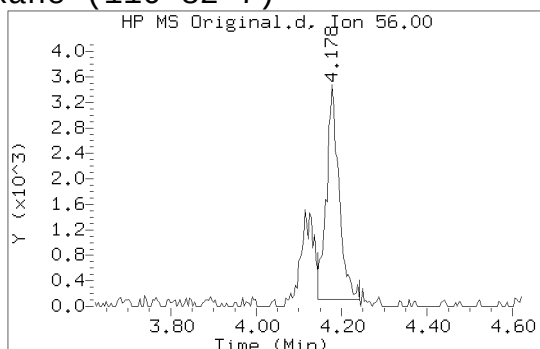


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
 Inj Date : 16-DEC-2022 12:20
 InstruID : voa6.i
 LabSampID : VSTD000.5

Cyclohexane (110-82-7)

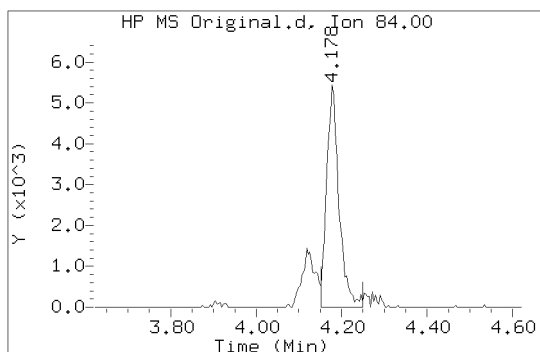
BEFORE

MASS
56
AREA
6884
HEIGHT
3363
27-Dec-2022
16:03
linh



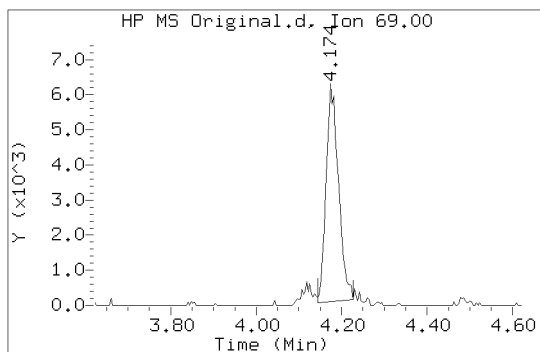
BEFORE

MASS
84
AREA
10951
HEIGHT
5440
27-Dec-2022
16:03
linh
pham



BEFORE

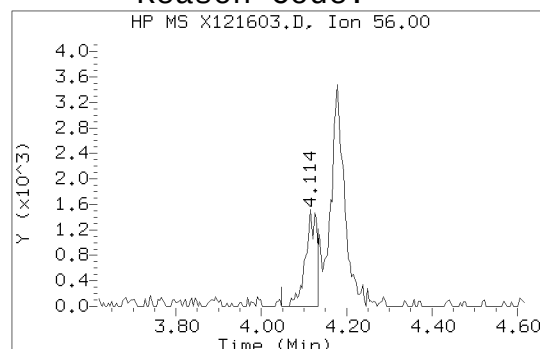
MASS
69
AREA
12449
HEIGHT
6206
27-Dec-2022
16:03
linh
pham



Reason Code:

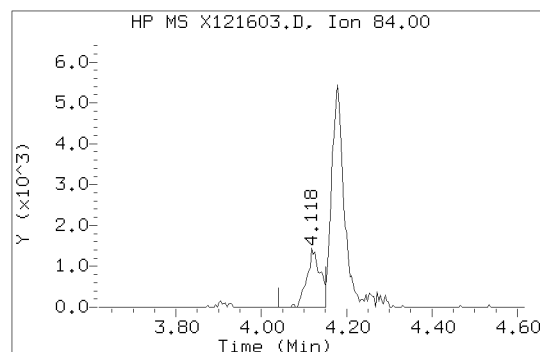
AFTER

MASS
56
AREA
2803
HEIGHT
1514
27-Dec-2022
16:07
linh



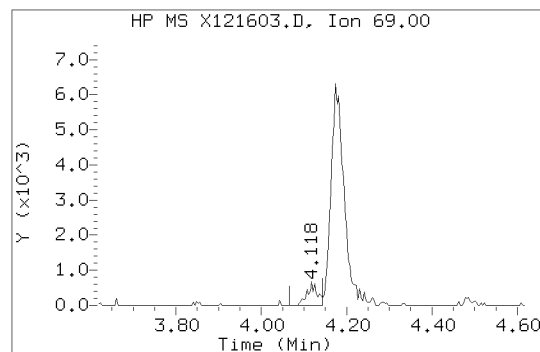
AFTER

MASS
84
AREA
3197
HEIGHT
1443
27-Dec-2022
16:07
linh
pham



AFTER

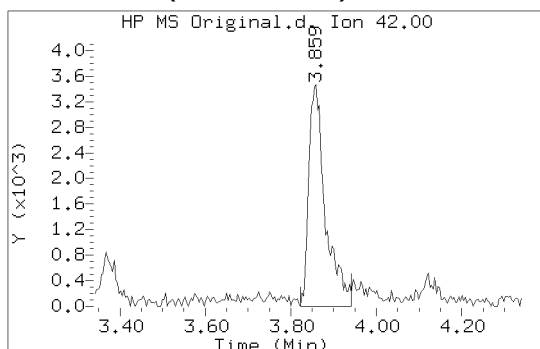
MASS
69
AREA
1108
HEIGHT
681
27-Dec-2022
16:07
linh
pham



Tetrahydrofuran (109-99-9)

BEFORE

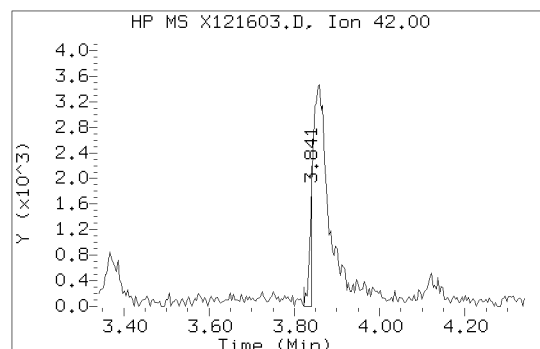
MASS
42
AREA
9468
HEIGHT
3467
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

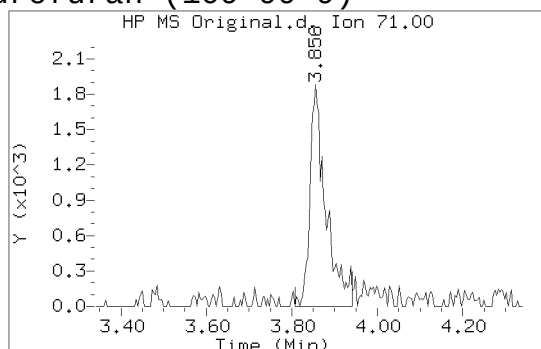
MASS
42
AREA
900
HEIGHT
1891
27-Dec-2022
16:07
linh
pham



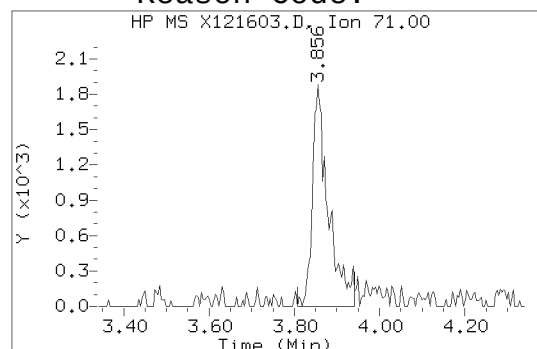
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Tetrahydrofuran (109-99-9)**BEFORE**

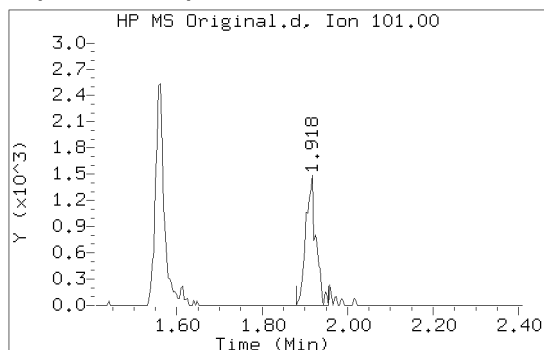
MASS
71
AREA
4885
HEIGHT
1881
27-Dec-2022
16:03
linh
pham

**AFTER**

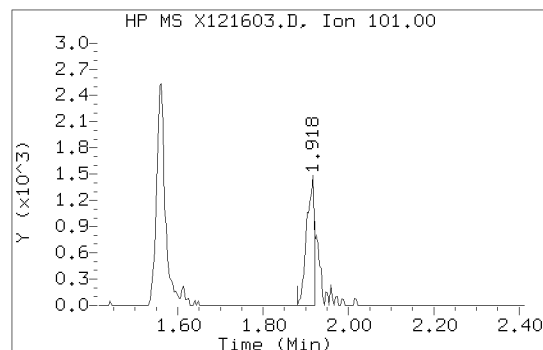
MASS
71
AREA
4885
HEIGHT
1881
27-Dec-2022
16:07
linh
pham

Reason Code:**Freon TF (76-13-1)****BEFORE**

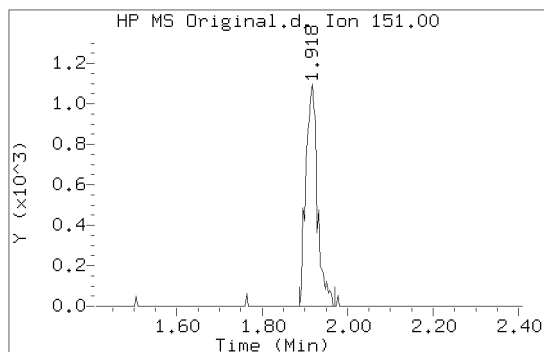
MASS
101
AREA
2478
HEIGHT
1484
27-Dec-2022
16:03
linh
pham

**AFTER**

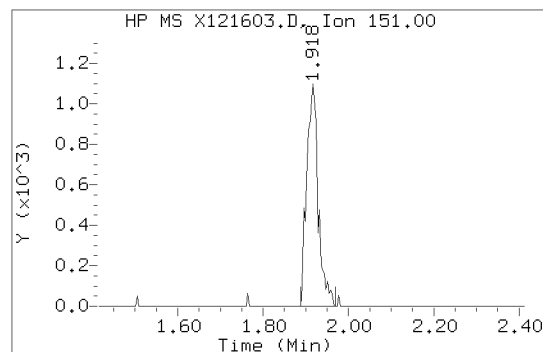
MASS
101
AREA
1851
HEIGHT
1484
27-Dec-2022
16:07
linh
pham

Reason Code:**BEFORE**

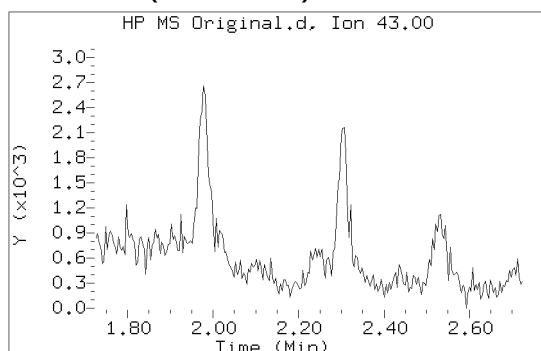
MASS
151
AREA
2095
HEIGHT
1098
27-Dec-2022
16:03
linh
pham

**AFTER**

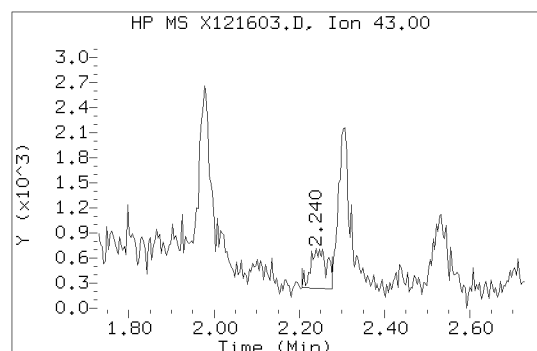
MASS
151
AREA
2095
HEIGHT
1098
27-Dec-2022
16:07
linh
pham

**Methyl Acetate (79-20-9)****BEFORE**

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
43
AREA
1269
HEIGHT
477
27-Dec-2022
16:07
linh
pham

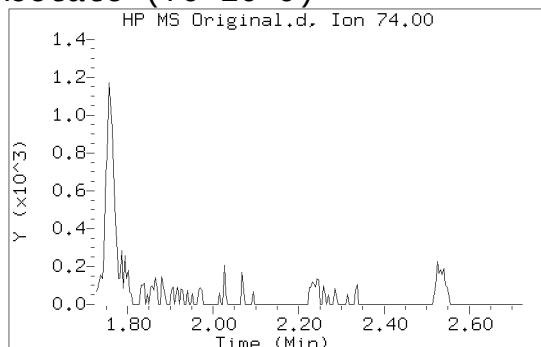
Reason Code:

Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl Acetate (79-20-9)

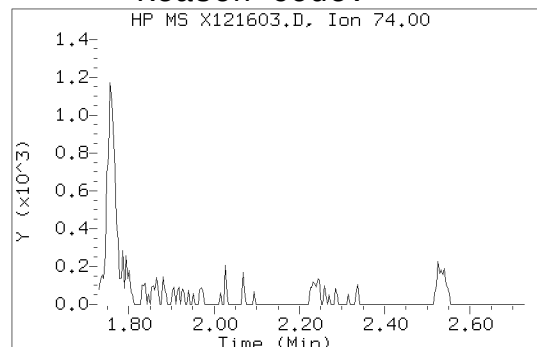
BEFORE

MASS
74
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

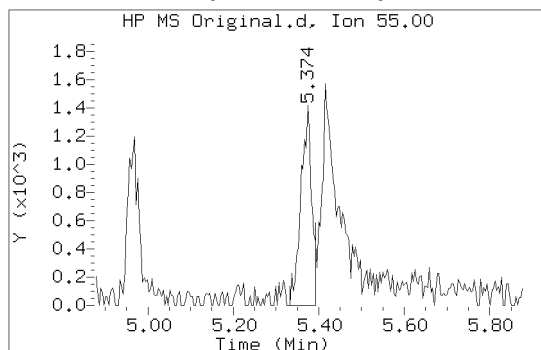
MASS
74
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Methylcyclohexane (108-87-2)

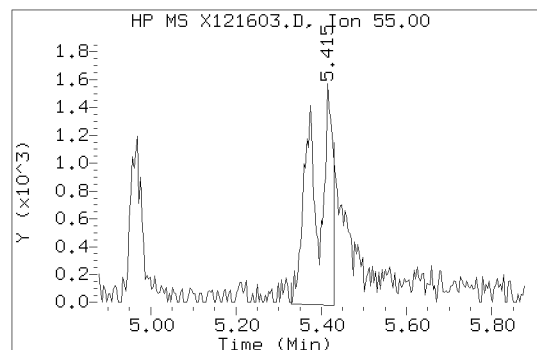
BEFORE

MASS
55
AREA
2505
HEIGHT
1416
27-Dec-2022
16:03
linh
pham



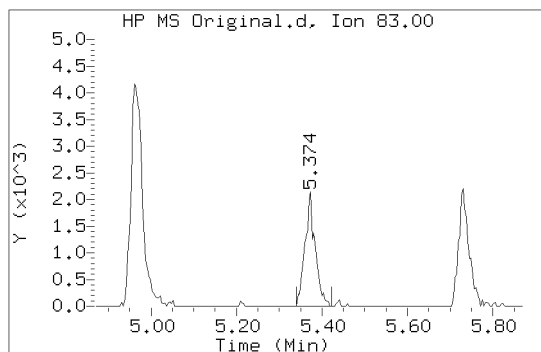
AFTER

MASS
55
AREA
4781
HEIGHT
1590
27-Dec-2022
16:07
linh
pham



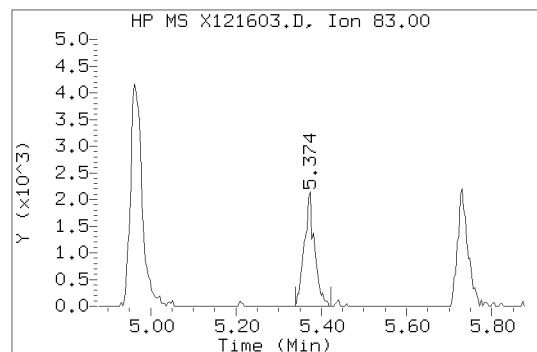
BEFORE

MASS
83
AREA
3627
HEIGHT
2141
27-Dec-2022
16:03
linh
pham



AFTER

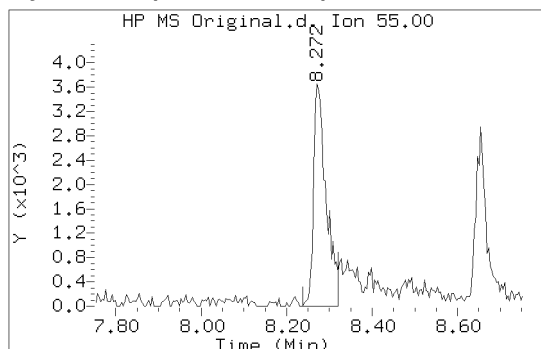
MASS
83
AREA
3627
HEIGHT
2141
27-Dec-2022
16:07
linh
pham



Butyl acrylate (141-32-2)

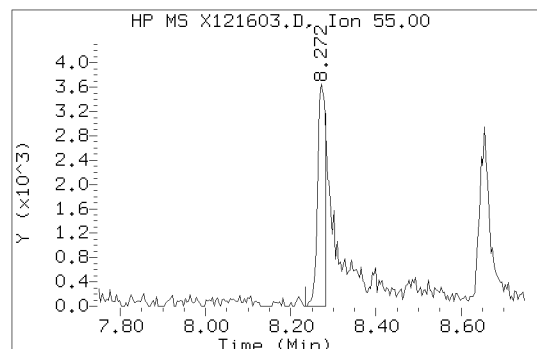
BEFORE

MASS
55
AREA
7480
HEIGHT
3653
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
4718
HEIGHT
3653
27-Dec-2022
16:07
linh
pham

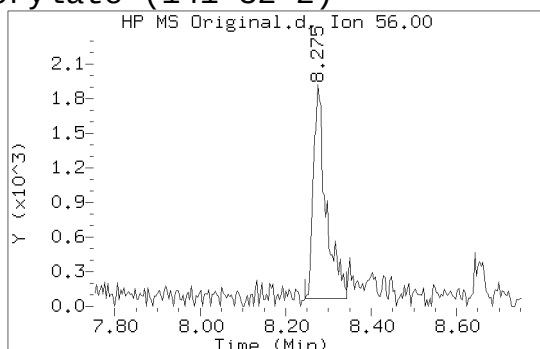


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121603.D
Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl acrylate (141-32-2)

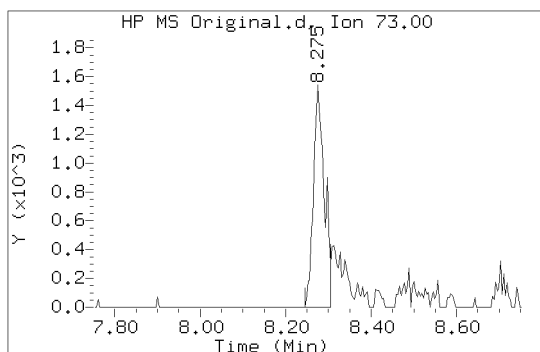
BEFORE

MASS
56
AREA
3795
HEIGHT
1858
27-Dec-2022
16:03
linh



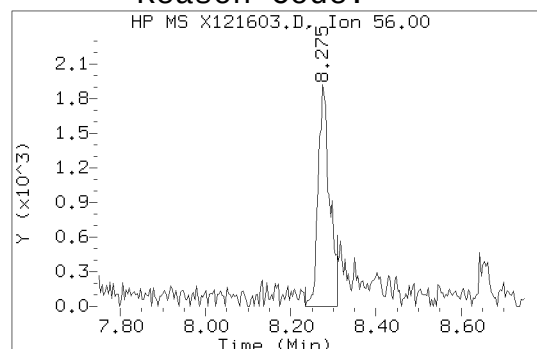
BEFORE

MASS
73
AREA
2742
HEIGHT
1542
27-Dec-2022
16:03
linh
pham



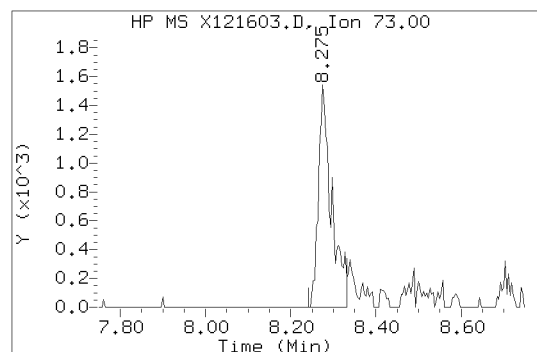
AFTER

MASS
56
AREA
3566
HEIGHT
1923
27-Dec-2022
16:07
linh



AFTER

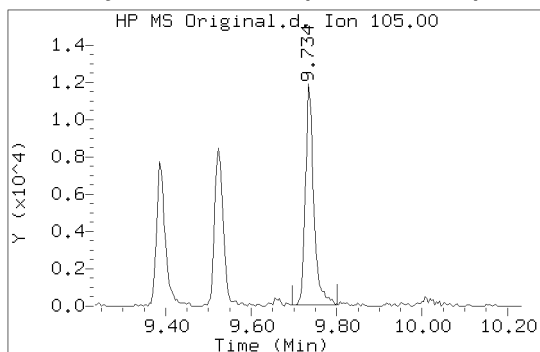
MASS
73
AREA
3276
HEIGHT
1542
27-Dec-2022
16:07
linh
pham



1,2,3-Trimethylbenzene (526-73-8)

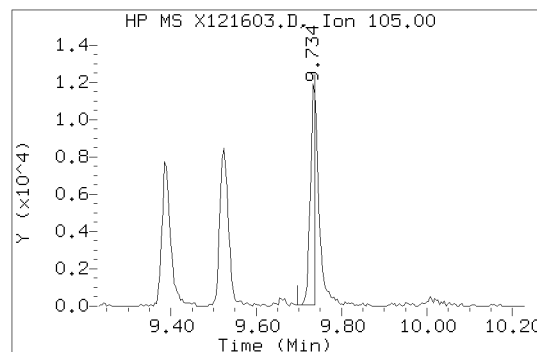
BEFORE

MASS
105
AREA
16642
HEIGHT
11860
27-Dec-2022
16:03
linh
pham



AFTER

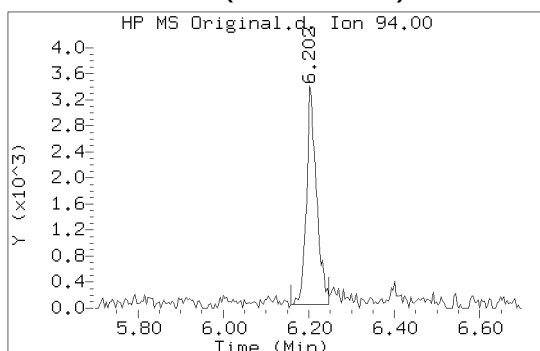
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HEIGHT
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27-Dec-2022
16:07
linh
pham



Dimethyl Disulfide (624-92-0)

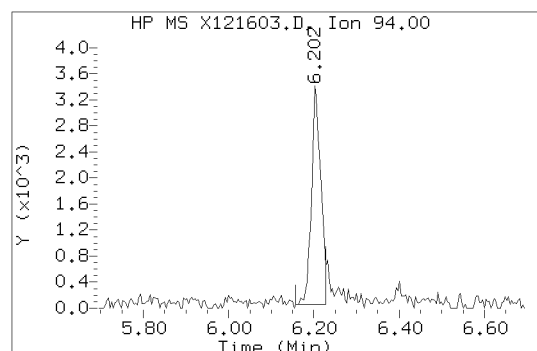
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AFTER

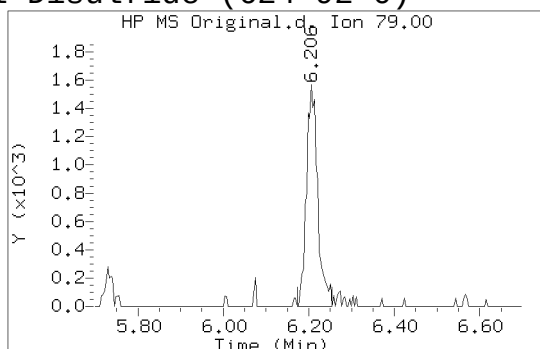
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16:07
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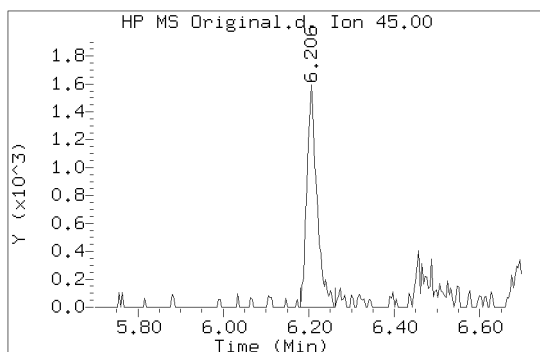
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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

Dimethyl Disulfide (624-92-0)**BEFORE**

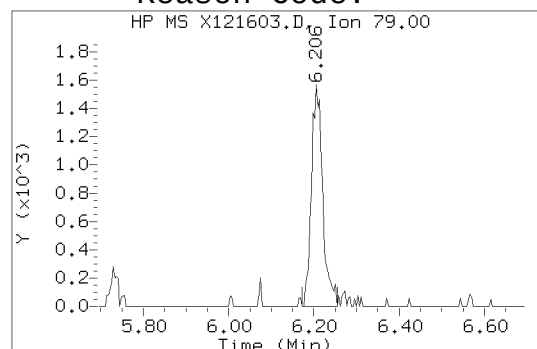
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AREA
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HEIGHT
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27-Dec-2022
16:03
linh

**BEFORE**

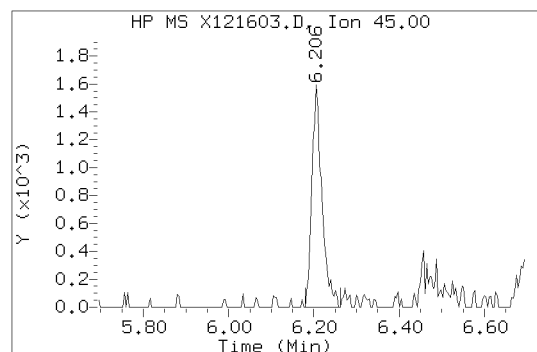
MASS
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AREA
2647
HEIGHT
1593
27-Dec-2022
16:03
linh
pham

**AFTER**

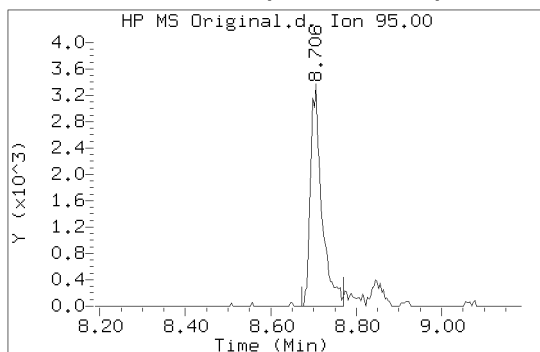
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AREA
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HEIGHT
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27-Dec-2022
16:07
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**AFTER**

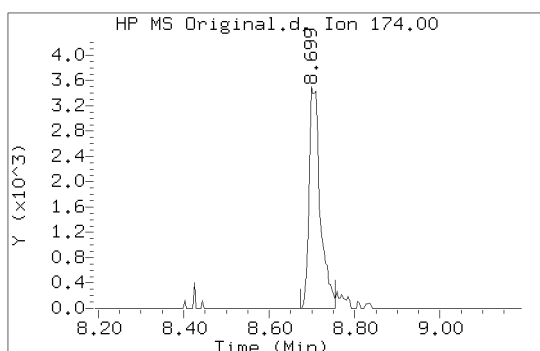
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HEIGHT
1593
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16:07
linh
pham

**4-Bromofluorobenzene (460-00-4)****BEFORE**

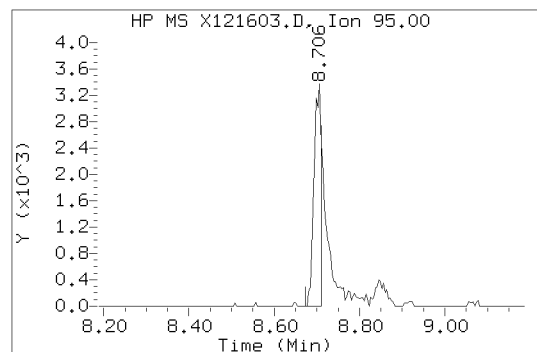
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HEIGHT
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16:03
linh
pham

**BEFORE**

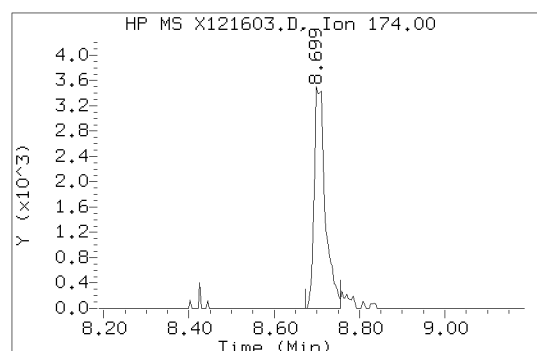
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6370
HEIGHT
3502
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
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AREA
3870
HEIGHT
3372
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
174
AREA
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HEIGHT
3502
27-Dec-2022
16:07
linh
pham

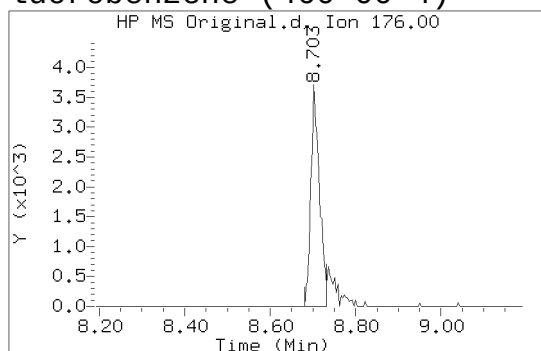


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Inj Date : 16-DEC-2022 12:20
InstruID : voa6.i
LabSampID : VSTD000.5

4-Bromofluorobenzene (460-00-4)

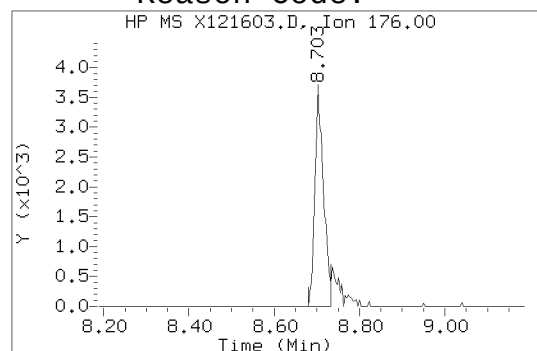
BEFORE

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AREA
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HEIGHT
3711
27-Dec-2022
16:03
linh
pham



AFTER

MASS
176
AREA
5204
HEIGHT
3711
27-Dec-2022
16:07
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
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 Inj Date : 16-DEC-2022 12:41
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD001;VSTD001;1;3;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 12:20 Cal File: X121603.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		450308	50.0000	
135 1,4-Dioxane	88		5.610	5.610	(1.343)		820	20.0000	19.92(M)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		3432	1.00000	1.11
25 Methacrylonitrile	41		3.852	3.852	(0.922)		3285	1.00000	1.03(M)
12 Isobutyl Alcohol	43		4.695	4.695	(1.124)		9436	20.0000	18.62(M)
13 Acetonitrile	39		2.198	2.198	(0.526)		4183	10.0000	10.20
14 Allyl Chloride	41		2.202	2.202	(0.527)		8574	1.00000	1.09
4 Propionitrile	54		3.687	3.687	(0.882)		4742	10.0000	10.32(M)
136 n-Hexane	57		2.776	2.776	(0.664)		2343	1.00000	0.72
72 trans-1,4-Dichloro-2-butene	53		8.920	8.920	(1.163)		1196	1.00000	0.85(M)
194 Acetaldehyde	44		1.212	1.212	(0.290)		3384	4.00000	(M)
23 Chloroprene	53		1.767	1.767	(0.423)		1686	1.00000	1.10(M)
145 alpha-Methylstyrene	118		9.272	9.272	(0.960)		6032	1.00000	0.77
200 Dimethyl Disulfide	94		6.206	6.206	(0.809)		8295	1.00000	0.94
139 Diethyl ether	59		1.760	1.760	(0.421)		2983	1.00000	0.99
130 Ethyl Acetate	43		3.675	3.675	(0.880)		3144	1.00000	0.89(M)
40 Methyl Methacrylate	41		5.628	5.628	(1.347)		3145	1.00000	1.02
49 Ethyl Methacrylate	69		6.727	6.727	(1.355)		3303	1.00000	1.02(M)
132 n-Butanol	56		5.239	5.239	(1.254)		1171	20.0000	60.69(M)
142 Tetrahydrofuran	42		3.844	3.844	(0.920)		1361	2.00000	(M)



150 Allyl alcohol	57	2.776	2.776 (0.664)	2343	20.0000	13.39
166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	18347	1.00000	1.08

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.743	3.743	(0.896)	3084	1.00000	1.00(M)
162 Butyl acrylate	55	8.271	8.271	(1.078)	7647	1.00000	0.90
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	2911	1.00000	1.30
3 Chloromethane	50	1.078	1.078	(0.258)	3670	1.00000	3.07
5 Vinyl Chloride	62	1.141	1.141	(0.273)	3645	1.00000	0.92
6 Bromomethane	94	1.340	1.340	(0.321)	3293	1.00000	2.83
7 Chloroethane	64	1.400	1.400	(0.335)	2516	1.00000	0.91(M)
8 Trichlorofluoromethane	101	1.554	1.554	(0.372)	4906	1.00000	0.89
9 Acrolein	56	1.452	1.452	(0.348)	761	2.00000	5.22(M)
10 Acetone	43	1.977	1.977	(0.473)	4787	2.00000	3.75(M)
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	3238	1.00000	0.94
15 Iodomethane	142	2.026	2.026	(0.485)	3865	2.00000	4.18(TM)
16 Acrylonitrile	53	2.554	2.554	(0.612)	2258	2.00000	1.94(M)
17 Methylene Chloride	84	2.300	2.300	(0.550)	5355	1.00000	1.14(M)
18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	12521	1.00000	1.11
19 Carbon Disulfide	76	2.067	2.067	(0.495)	18122	2.00000	2.02
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	3821	1.00000	0.99
21 Vinyl Acetate	43	3.012	3.012	(0.721)	17842	2.00000	1.81
22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	7218	1.00000	1.07
24 2-Butanone	43	3.619	3.619	(0.866)	2498	2.00000	4.83(M)
26 2,2-Dichloropropane	77	3.514	3.514	(0.841)	5896	1.00000	1.03
27 cis-1,2-Dichloroethene	96	3.540	3.540	(0.847)	4469	1.00000	0.96
28 Chloroform	83	3.908	3.908	(0.935)	7768	1.00000	1.03
29 Bromochloromethane	128	3.803	3.803	(0.910)	2689	1.00000	1.05
\$ 30 Dibromofluoromethane	113	4.103	4.103	(0.982)	4769	1.00000	0.94
31 1,1,1-Trichloroethane	97	4.088	4.088	(0.978)	5914	1.00000	0.99
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	4698	1.00000	0.96
33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	5568	1.00000	0.99
34 Carbon Tetrachloride	117	4.271	4.271	(0.860)	6221	1.00000	1.19
\$ 35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	5559	1.00000	1.48
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	685937	50.0000	
37 Benzene	78	4.515	4.515	(0.909)	16367	1.00000	0.99
38 Trichloroethene	130	5.216	5.216	(1.051)	4352	1.00000	0.93
39 Bromodichloromethane	83	5.730	5.730	(1.154)	6296	1.00000	1.02(M)
41 2-Chloroethylvinyl ether	63	6.071	6.071	(1.223)	3202	2.00000	1.83(M)
42 1,2-Dichloropropane	63	5.445	5.445	(1.097)	4604	1.00000	1.05(M)
44 Dibromomethane	93	5.557	5.557	(1.119)	2906	1.00000	0.98
45 4-Methyl-2-Pentanone	43	6.341	6.341	(0.827)	6859	2.00000	1.97
46 cis-1,3-Dichloropropene	75	6.168	6.168	(1.242)	6537	1.00000	0.90
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	649074	50.0000	
\$ 48 Toluene-d8	98	6.401	6.401	(0.834)	17067	1.00000	1.06
50 Toluene	91	6.457	6.457	(0.842)	17914	1.00000	0.99
51 trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	5418	1.00000	0.90
52 2-Hexanone	43	7.109	7.109	(0.927)	4520	2.00000	1.91
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	3499	1.00000	0.97
54 1,3-Dichloropropane	76	6.989	6.989	(0.911)	7216	1.00000	1.01
55 Dibromochloromethane	129	7.177	7.177	(0.936)	5024	1.00000	0.96
56 Tetrachloroethene	164	6.933	6.933	(0.904)	3331	1.00000	0.89
57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	4350	1.00000	0.96
58 1-Chlorohexane	55	7.705	7.705	(1.552)	3155	1.00000	0.95(MH)
59 Chlorobenzene	112	7.698	7.698	(1.003)	12555	1.00000	0.98
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	4485	1.00000	0.94



61 Ethylbenzene	106	7.806	7.806 (1.018)	5698	1.00000	0.95
62 m,p-Xylenes	106	7.911	7.911 (1.031)	14464	2.00000	1.87



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.249	8.249	(1.075)	6670	1.00000	0.87
64 Styrene	104	8.282	8.282	(1.080)	10384	1.00000	0.81
66 Bromoform	173	8.417	8.417	(1.097)	3274	1.00000	0.90(T)
67 Isopropylbenzene	105	8.564	8.564	(1.116)	15163	1.00000	0.87
68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	5934	1.00000	1.05(M)
\$ 69 4-Bromofluorobenzene	95	8.702	8.702	(1.134)	7790	1.00000	1.36(M)
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	351251	50.00000	
71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	3978	1.00000	1.01
73 n-Propylbenzene	91	8.923	8.923	(0.924)	15006	1.00000	0.77
74 Bromobenzene	156	8.818	8.818	(0.913)	5554	1.00000	0.96
75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	11820	1.00000	0.82
76 2-Chlorotoluene	91	8.980	8.980	(0.929)	12470	1.00000	0.97
77 4-Chlorotoluene	91	9.085	9.085	(0.940)	12140	1.00000	0.83
78 tert-Butylbenzene	119	9.340	9.340	(0.967)	9357	1.00000	0.79
79 1,2,4-Trimethylbenzene	105	9.385	9.385	(0.971)	12988	1.00000	0.85
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	12395	1.00000	0.79
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	10009	1.00000	0.71
83 1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	8523	1.00000	0.89
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	9866	1.00000	0.94
86 Benzyl Chloride	91	9.823	9.823	(1.280)	4632	1.00000	3.12
87 n-Butylbenzene	91	10.014	10.014	(1.036)	8459	1.00000	2.37(M)
88 1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	8626	1.00000	0.87
89 1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	778	1.00000	0.95(M)
90 1,2,4-Trichlorobenzene	180	11.371	11.371	(1.177)	4609	1.00000	0.74
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	1928	1.00000	0.65
92 Naphthalene	128	11.574	11.574	(1.198)	11288	1.00000	0.79(M)
93 1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	4801	1.00000	0.80
M 94 1,2-Dichloroethylene (total)	96				8290	2.00000	
M 95 Xylenes (total)	106				21134	3.00000	
141 Cyclohexane	56	4.125	4.125	(0.987)	4003	1.00000	2.12(H)
138 Freon TF	101	1.906	1.906	(0.456)	3356	1.00000	1.01
147 Methylcyclohexane	55	5.377	5.377	(1.083)	6848	1.00000	0.81(M)
146 Methyl Acetate	43	2.236	2.236	(0.535)	2127	1.00000	1.04(M)
148 Tert-Butyl alcohol	59	2.438	2.438	(0.584)	6051	20.00000	19.40(a)

QC Flag Legend

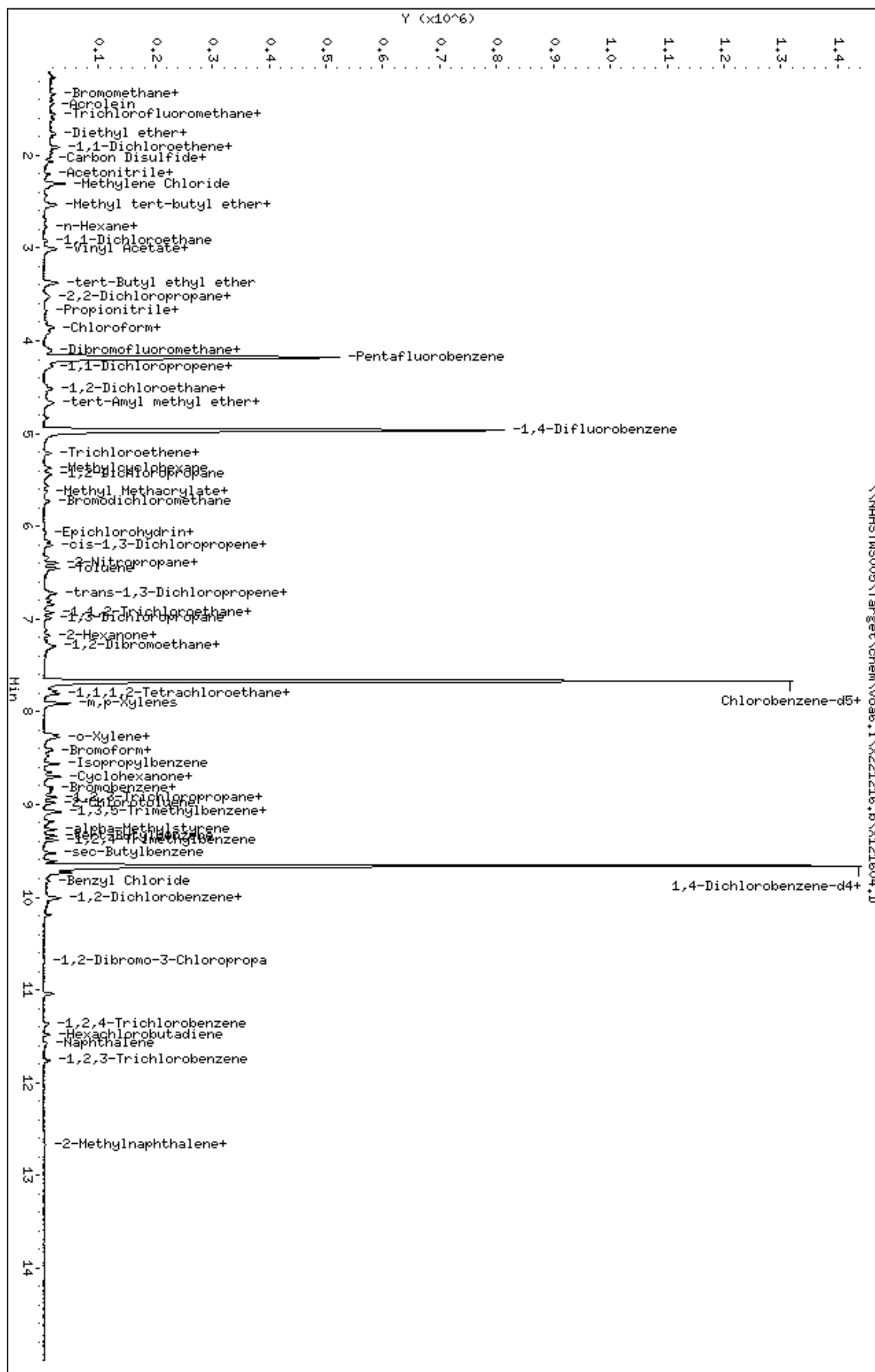
T - Target compound detected outside RT window.
 a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.



Data File: \\NAHSSTHS005\1target\chem\voa6.i\X221216.d.b\X121604.D
Date : 16-DEC-2022 12:41
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;13;
Purge Volume: 5.0
Column phase: DB624

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Instrument: voa6.i
Operator: PC
Column diameter: 0.18
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Page 1

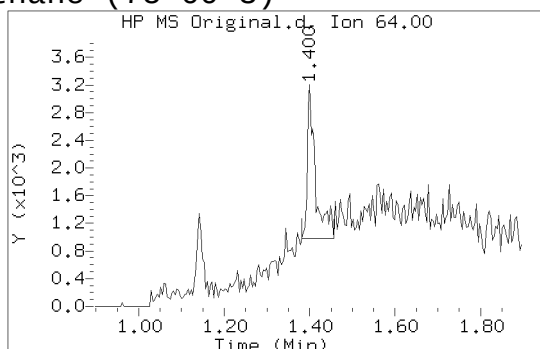


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Inj Date : 16-DEC-2022 12:41
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LabSampID : VSTD001

Chloroethane (75-00-3)

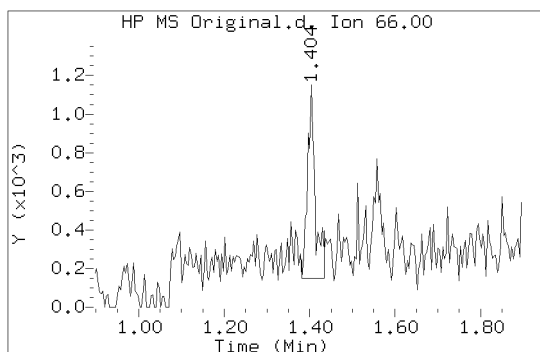
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16:03
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BEFORE

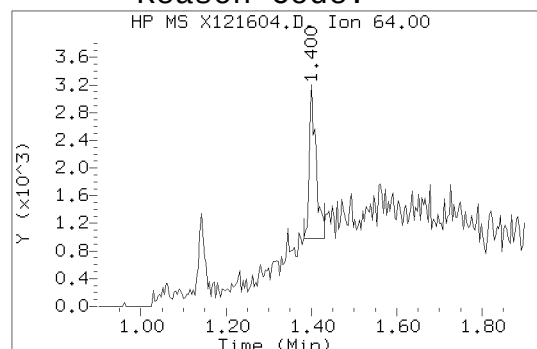
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Reason Code:

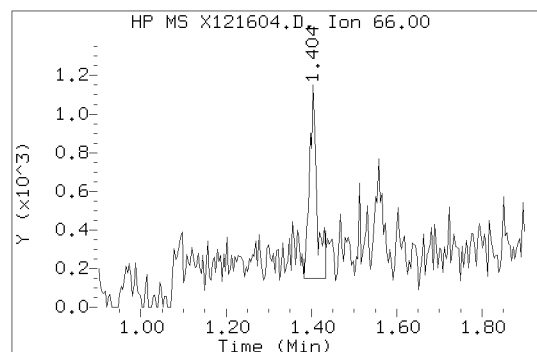
AFTER

MASS
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AFTER

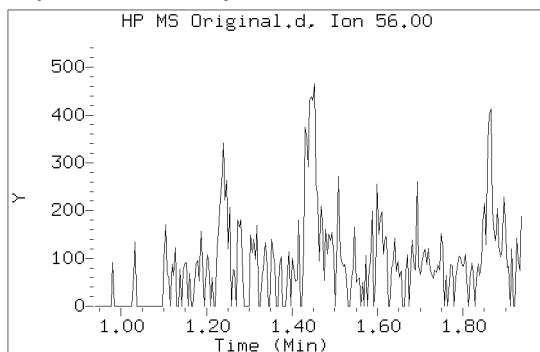
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linh
pham



Acrolein (107-02-8)

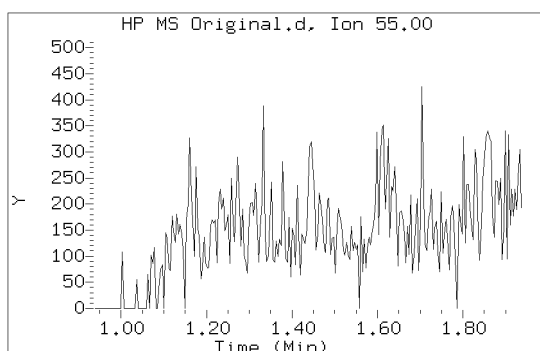
BEFORE

MASS
56
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0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

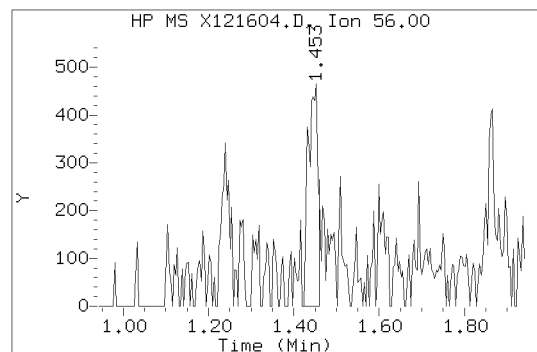
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16:03
linh
pham



Reason Code:

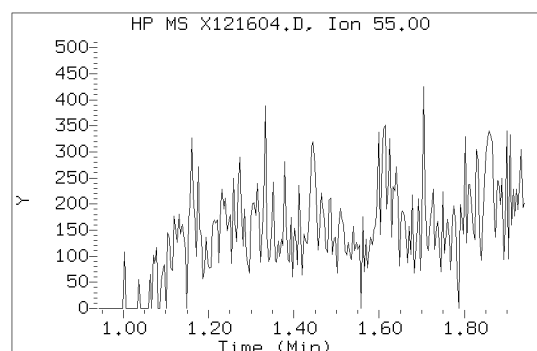
AFTER

MASS
56
AREA
761
HEIGHT
465
27-Dec-2022
16:07
linh
pham



AFTER

MASS
55
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0
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0
27-Dec-2022
16:07
linh
pham

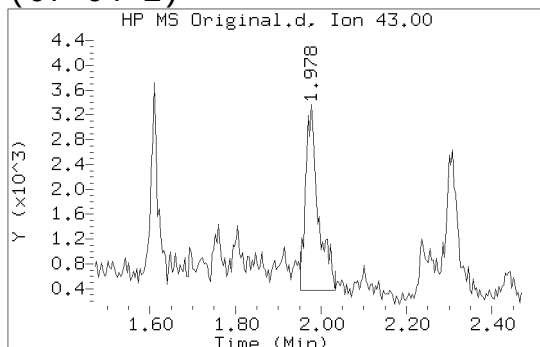


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Acetone (67-64-1)

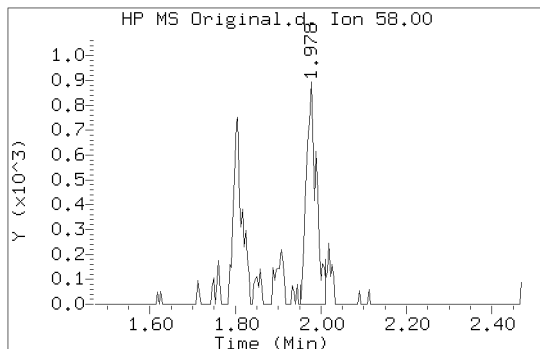
BEFORE

MASS
43
AREA
6265
HEIGHT
2993
27-Dec-2022
16:03
linh



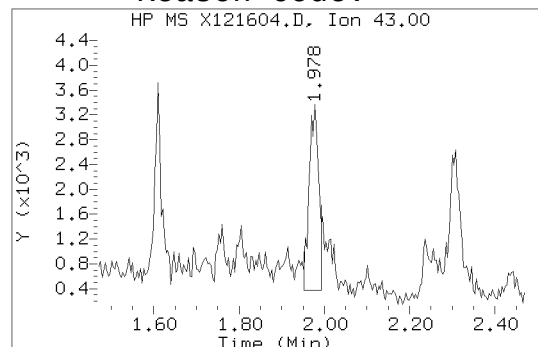
BEFORE

MASS
58
AREA
1474
HEIGHT
894
27-Dec-2022
16:03
linh
pham



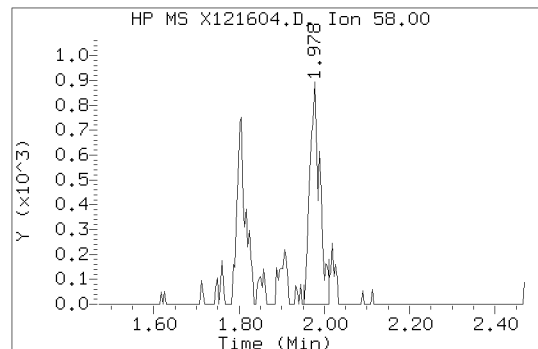
AFTER

MASS
43
AREA
4787
HEIGHT
2993
27-Dec-2022
16:07
linh



AFTER

MASS
58
AREA
1474
HEIGHT
894
27-Dec-2022
16:07
linh
pham

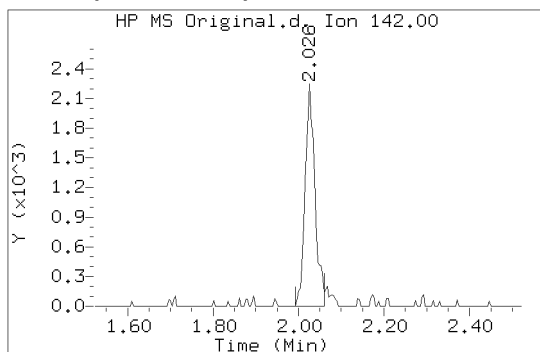


Reason Code:

Iodomethane (74-88-4)

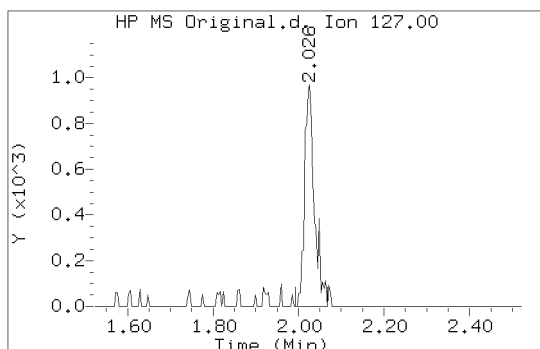
BEFORE

MASS
142
AREA
3661
HEIGHT
2248
27-Dec-2022
16:03
linh
pham



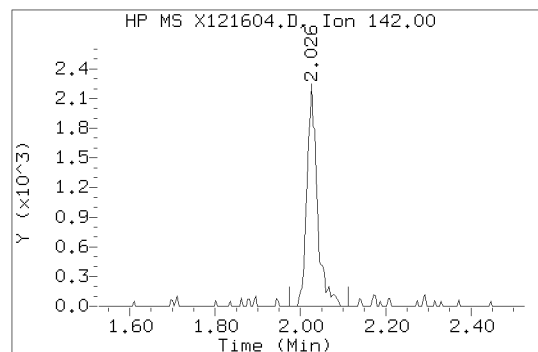
BEFORE

MASS
127
AREA
1585
HEIGHT
970
27-Dec-2022
16:03
linh
pham



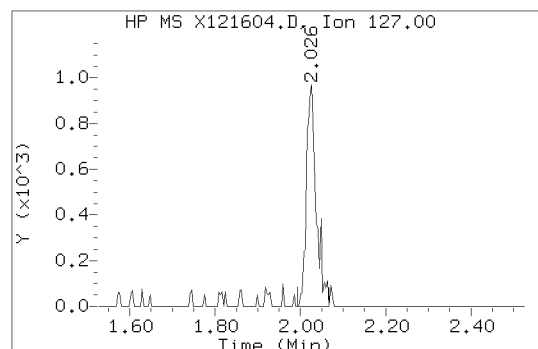
AFTER

MASS
142
AREA
3865
HEIGHT
2248
27-Dec-2022
16:07
linh
pham



AFTER

MASS
127
AREA
1585
HEIGHT
970
27-Dec-2022
16:07
linh
pham



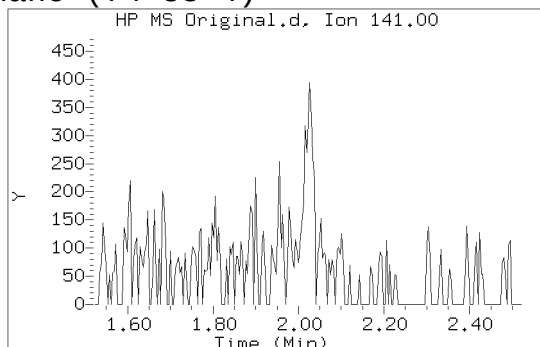
Reason Code:



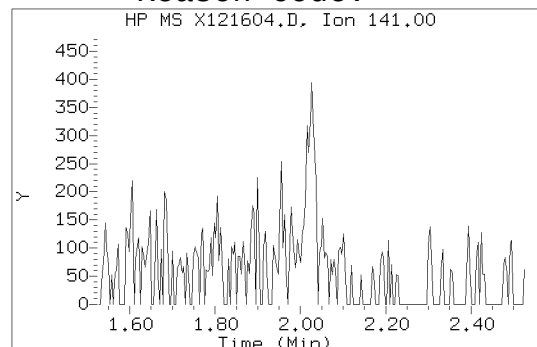
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Iodomethane (74-88-4)**BEFORE**

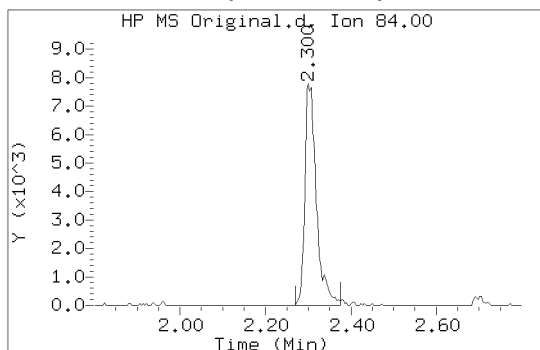
MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

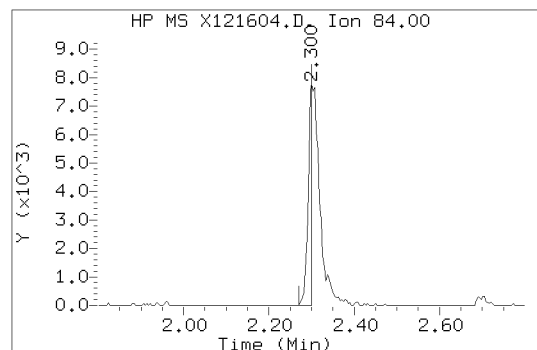
MASS
141
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

Reason Code:**Methylene Chloride (75-09-2)****BEFORE**

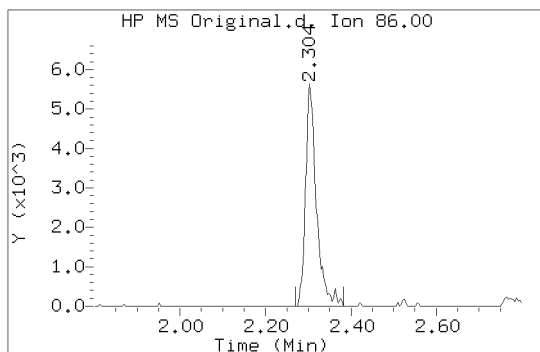
MASS
84
AREA
14864
HEIGHT
7788
27-Dec-2022
16:03
linh
pham

**AFTER**

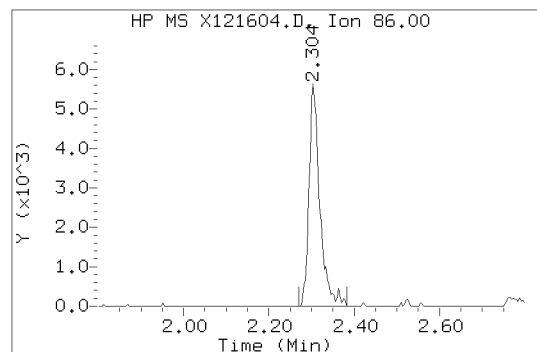
MASS
84
AREA
5355
HEIGHT
7788
27-Dec-2022
16:07
linh
pham

Reason Code:**BEFORE**

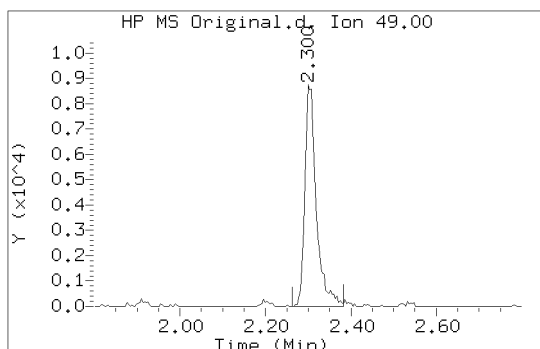
MASS
86
AREA
10161
HEIGHT
5637
27-Dec-2022
16:03
linh
pham

**AFTER**

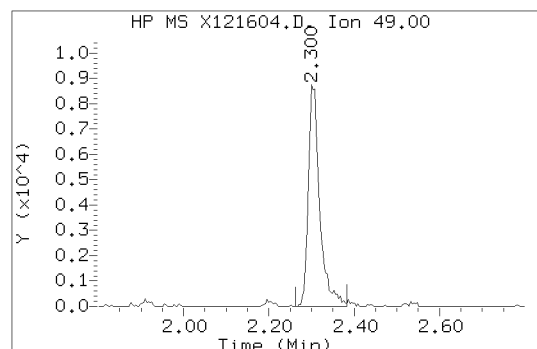
MASS
86
AREA
10161
HEIGHT
5637
27-Dec-2022
16:07
linh
pham

**BEFORE**

MASS
49
AREA
16641
HEIGHT
8752
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
49
AREA
16641
HEIGHT
8752
27-Dec-2022
16:07
linh
pham

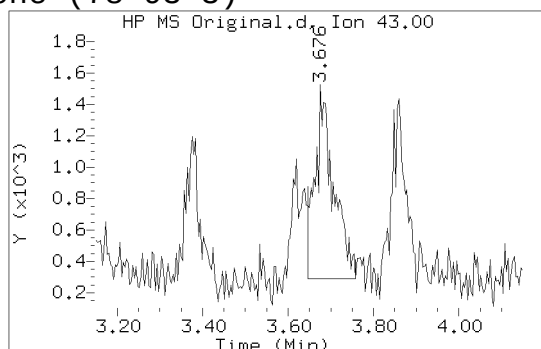


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
 Inj Date : 16-DEC-2022 12:41
 InstruID : voa6.i
 LabSampID : VSTD001

2-Butanone (78-93-3)

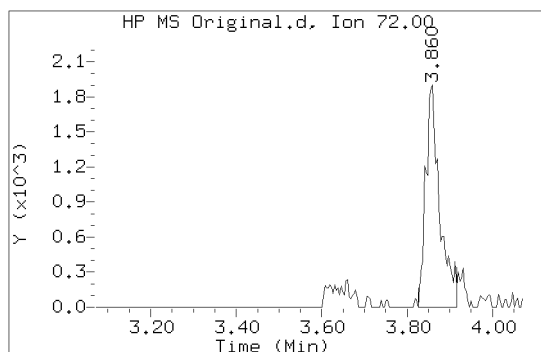
BEFORE

MASS
43
AREA
3758
HEIGHT
1236
27-Dec-2022
16:03
linh



BEFORE

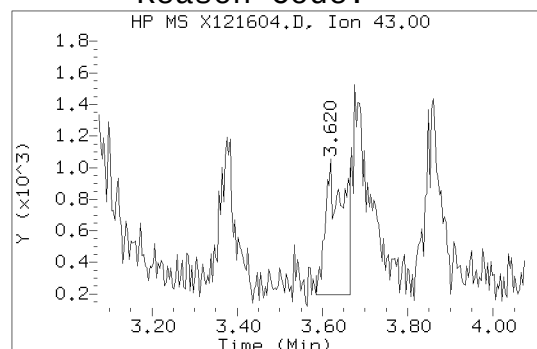
MASS
72
AREA
4320
HEIGHT
1902
27-Dec-2022
16:03
linh
pham



AFTER

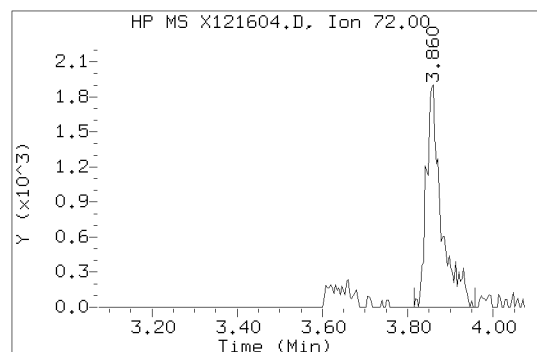
MASS
43
AREA
2498
HEIGHT
859
27-Dec-2022
16:07
linh

Reason Code:



AFTER

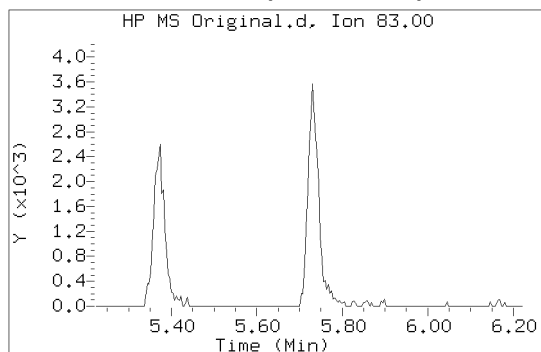
MASS
72
AREA
4690
HEIGHT
1902
27-Dec-2022
16:07
linh
pham



Bromodichloromethane (75-27-4)

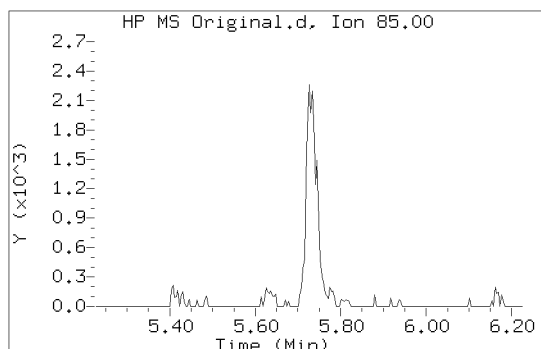
BEFORE

MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

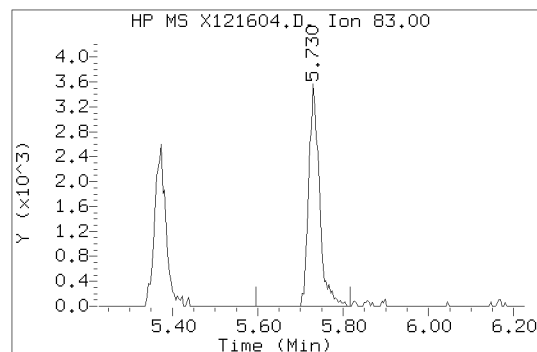
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

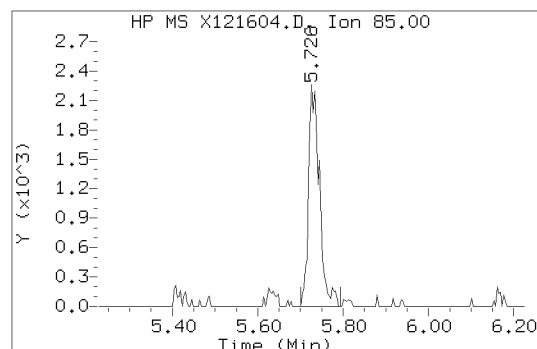
MASS
83
AREA
6296
HEIGHT
3568
27-Dec-2022
16:07
linh
pham

Reason Code:



AFTER

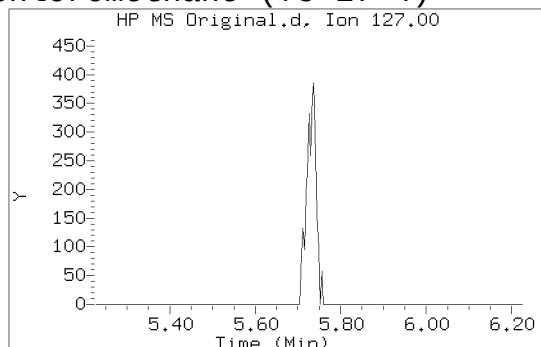
MASS
85
AREA
4084
HEIGHT
2261
27-Dec-2022
16:07
linh
pham



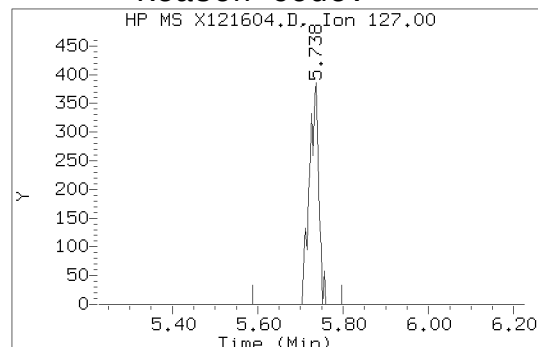
Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)**BEFORE**

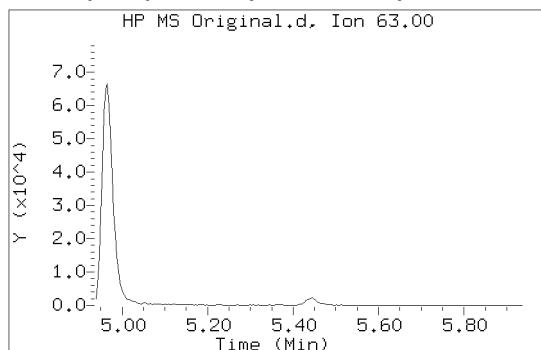
MASS
127
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

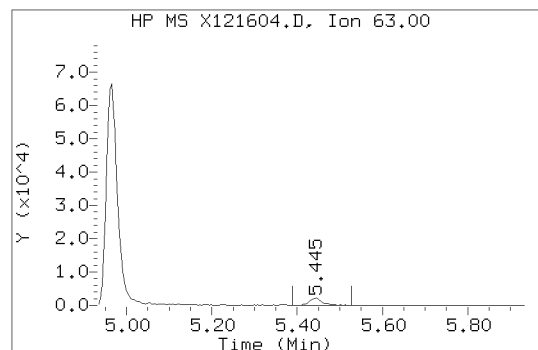
MASS
127
AREA
595
HEIGHT
386
27-Dec-2022
16:07
linh
pham

Reason Code:**1,2-Dichloropropane (78-87-5)****BEFORE**

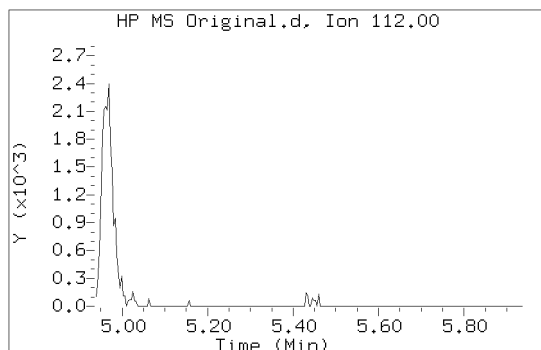
MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

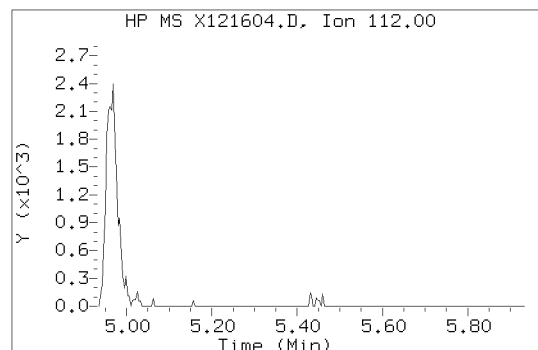
MASS
63
AREA
4604
HEIGHT
2381
27-Dec-2022
16:07
linh
pham

Reason Code:**BEFORE**

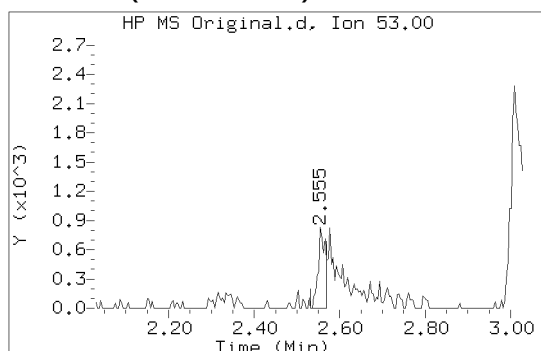
MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**AFTER**

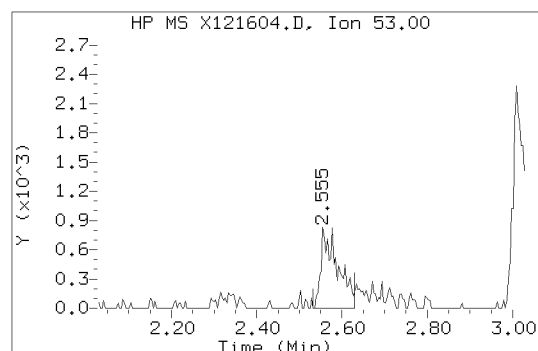
MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

**Acrylonitrile (107-13-1)****BEFORE**

MASS
53
AREA
967
HEIGHT
834
27-Dec-2022
16:03
linh
pham

**AFTER**

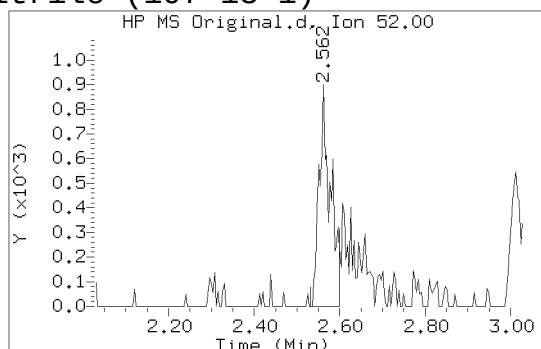
MASS
53
AREA
2258
HEIGHT
834
27-Dec-2022
16:07
linh
pham

Reason Code:

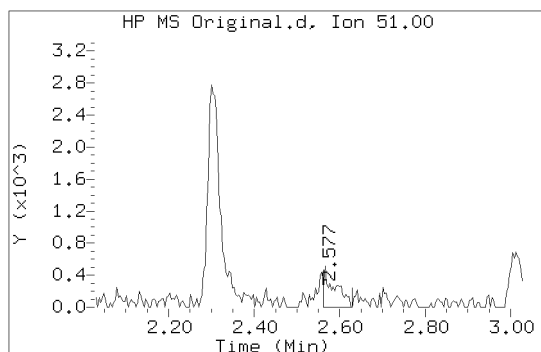
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Acrylonitrile (107-13-1)**BEFORE**

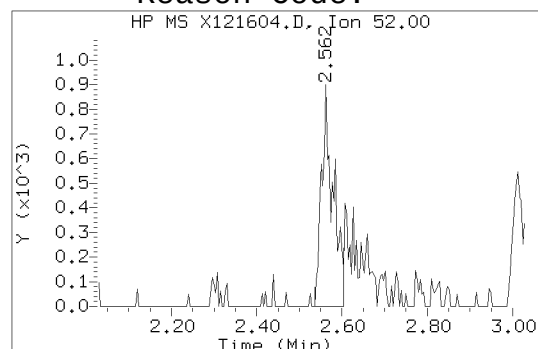
MASS
52
AREA
1657
HEIGHT
900
27-Dec-2022
16:03
linh

**BEFORE**

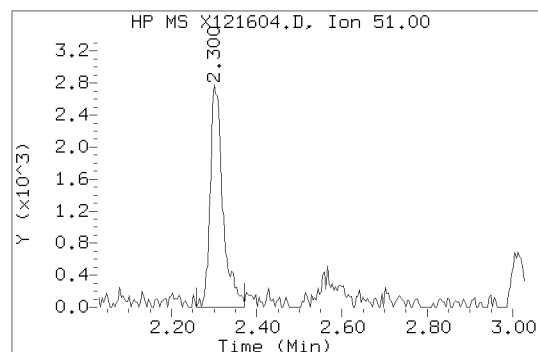
MASS
51
AREA
901
HEIGHT
301
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

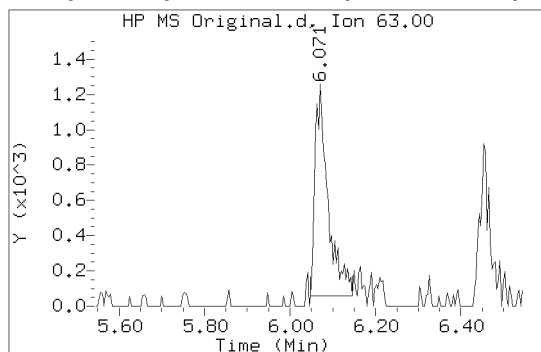
MASS
52
AREA
1692
HEIGHT
900
27-Dec-2022
16:07
linh

**AFTER**

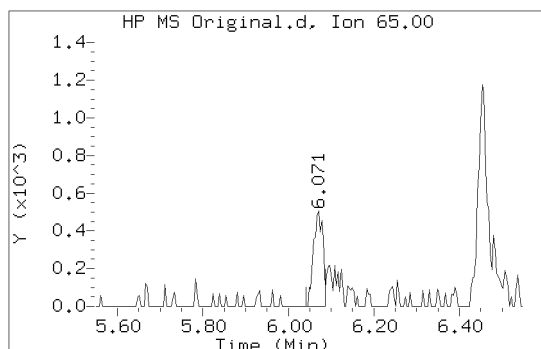
MASS
51
AREA
5757
HEIGHT
2777
27-Dec-2022
16:07
linh
pham

**2-Chloroethylvinyl ether (110-75-8)****BEFORE**

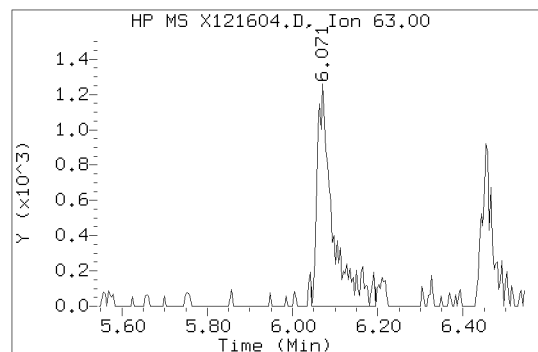
MASS
63
AREA
2513
HEIGHT
1202
27-Dec-2022
16:03
linh
pham

**BEFORE**

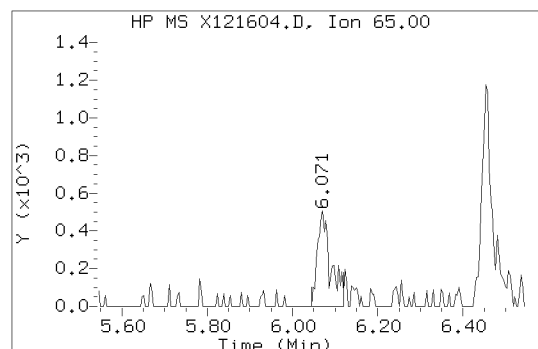
MASS
65
AREA
775
HEIGHT
507
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

MASS
63
AREA
3202
HEIGHT
1260
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
65
AREA
1093
HEIGHT
507
27-Dec-2022
16:07
linh
pham

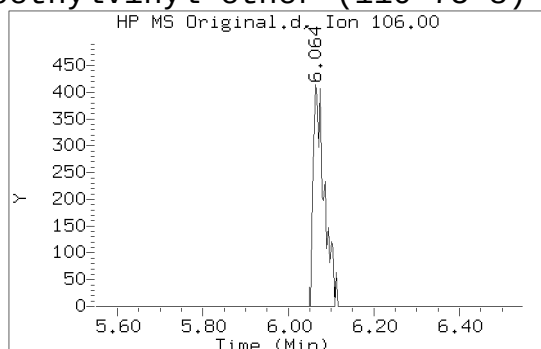


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

BEFORE

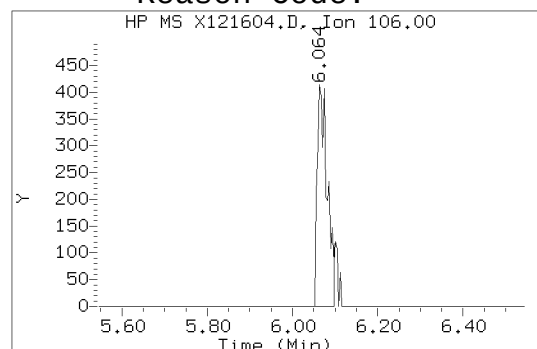
MASS
106
AREA
725
HEIGHT
414
27-Dec-2022
16:03
linh
pham



AFTER

MASS
106
AREA
673
HEIGHT
414
27-Dec-2022
16:07
linh
pham

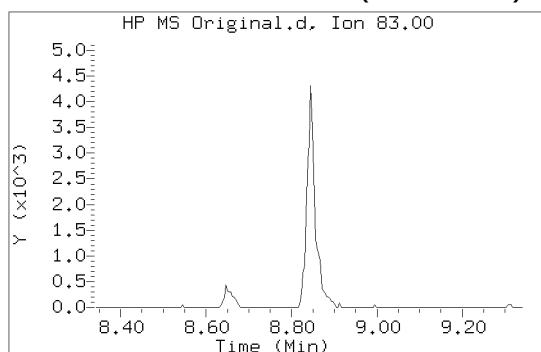
Reason Code:



1,1,2,2-Tetrachloroethane (79-34-5)

BEFORE

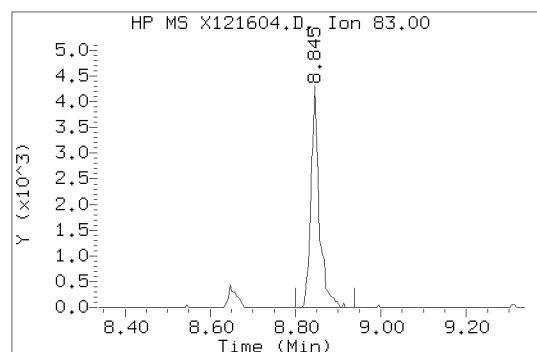
MASS
83
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

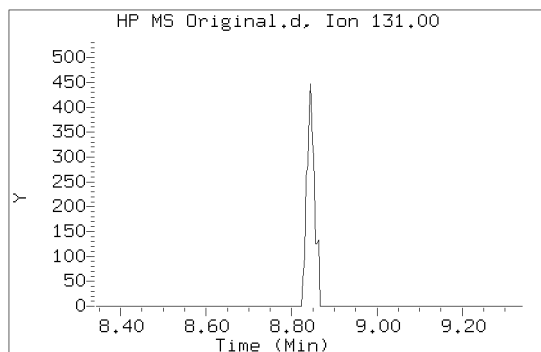
MASS
83
AREA
5934
HEIGHT
4312
27-Dec-2022
16:07
linh
pham

Reason Code:



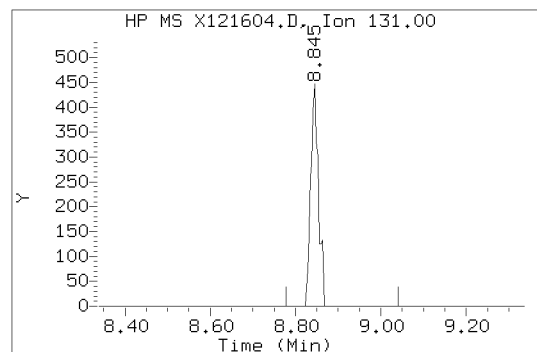
BEFORE

MASS
131
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



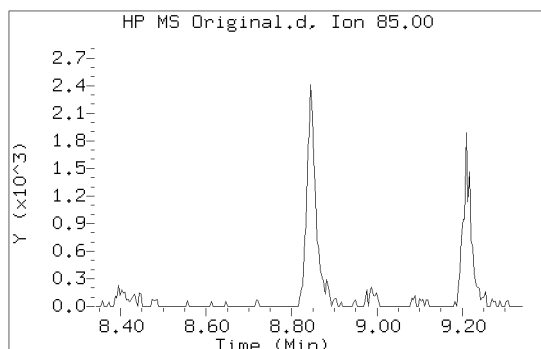
AFTER

MASS
131
AREA
574
HEIGHT
447
27-Dec-2022
16:07
linh
pham



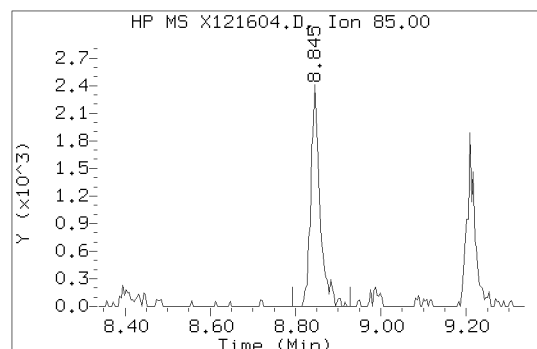
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

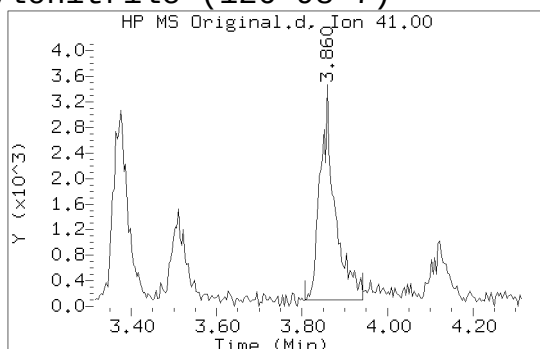
MASS
85
AREA
3682
HEIGHT
2411
27-Dec-2022
16:07
linh
pham



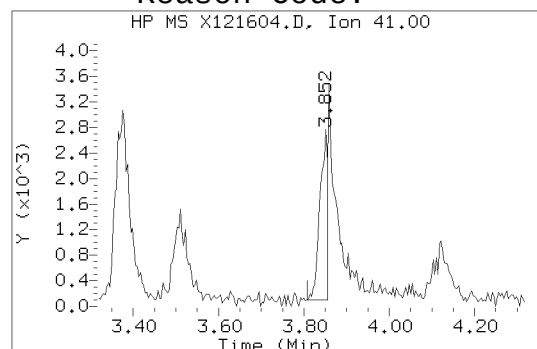
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Methacrylonitrile (126-98-7)**BEFORE**

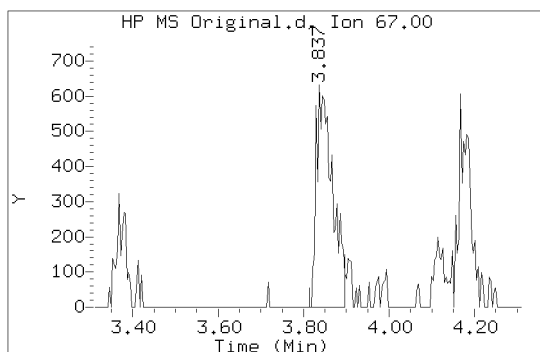
MASS
41
AREA
7966
HEIGHT
3370
27-Dec-2022
16:03
linh

**AFTER**

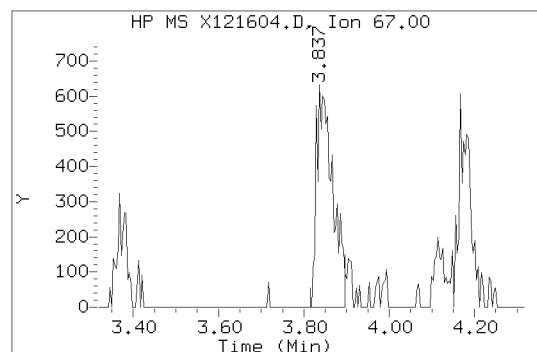
MASS
41
AREA
3285
HEIGHT
2668
27-Dec-2022
16:07
linh

**BEFORE**

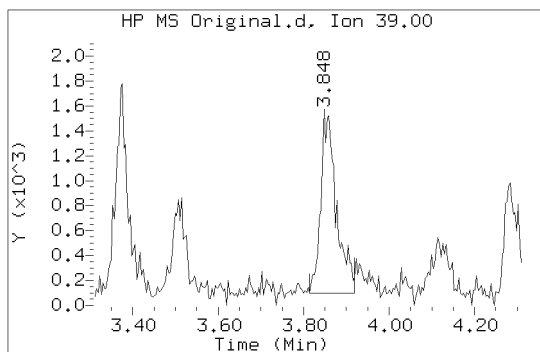
MASS
67
AREA
1649
HEIGHT
632
27-Dec-2022
16:03
linh
pham

**AFTER**

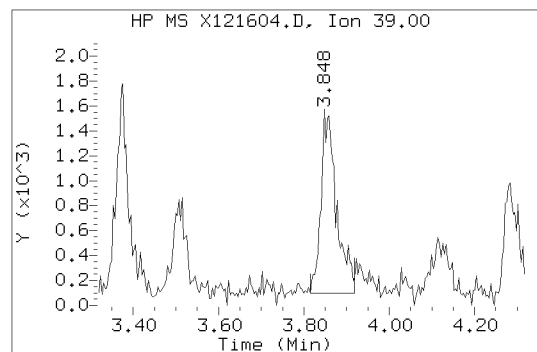
MASS
67
AREA
1649
HEIGHT
632
27-Dec-2022
16:07
linh
pham

**BEFORE**

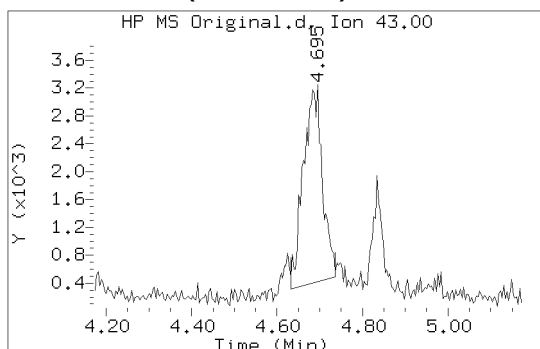
MASS
39
AREA
3700
HEIGHT
1473
27-Dec-2022
16:03
linh
pham

**AFTER**

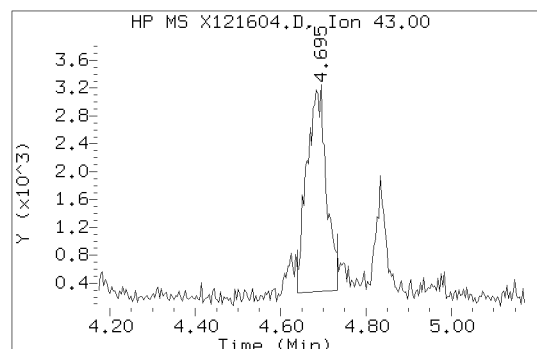
MASS
39
AREA
3700
HEIGHT
1473
27-Dec-2022
16:07
linh
pham

**Isobutyl Alcohol (78-83-1)****BEFORE**

MASS
43
AREA
8847
HEIGHT
2826
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
43
AREA
9436
HEIGHT
2966
27-Dec-2022
16:07
linh
pham

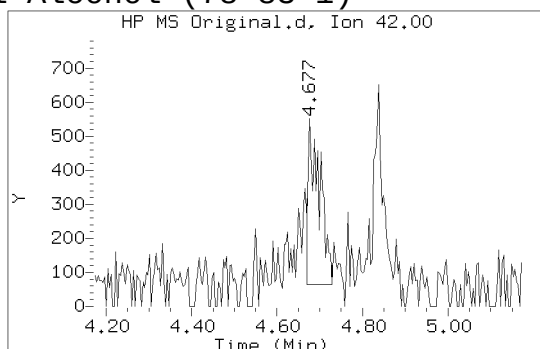


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

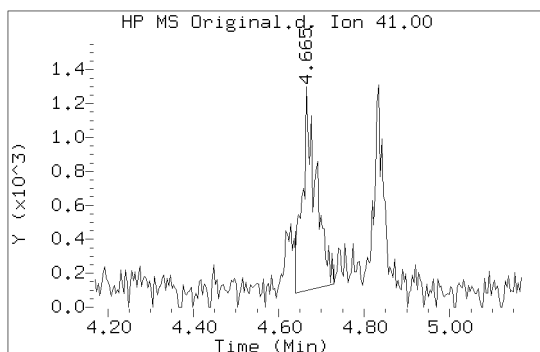
BEFORE

MASS
42
AREA
953
HEIGHT
488
27-Dec-2022
16:03
linh



BEFORE

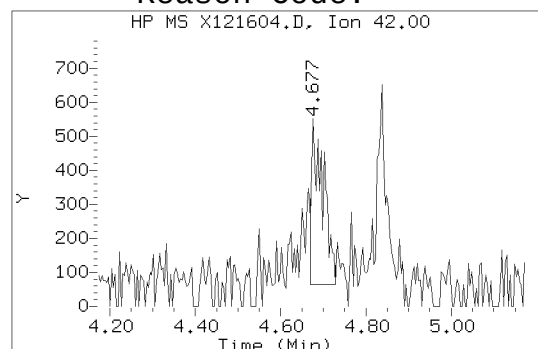
MASS
41
AREA
2650
HEIGHT
1200
27-Dec-2022
16:03
linh
pham



Reason Code:

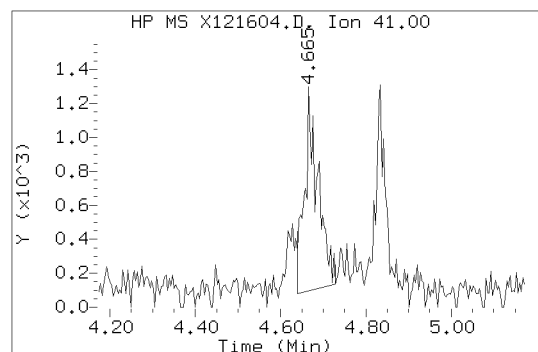
AFTER

MASS
42
AREA
953
HEIGHT
488
27-Dec-2022
16:07
linh



AFTER

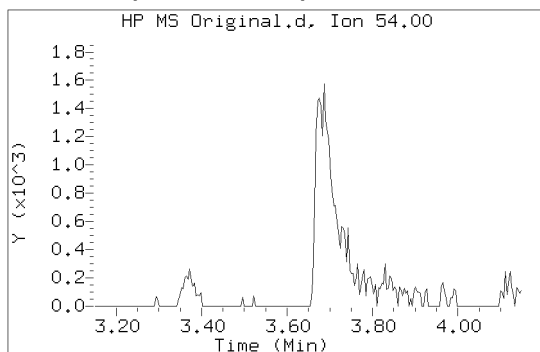
MASS
41
AREA
2656
HEIGHT
1201
27-Dec-2022
16:07
linh
pham



Propionitrile (107-12-0)

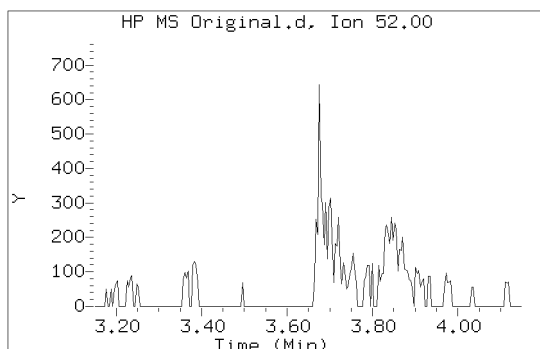
BEFORE

MASS
54
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

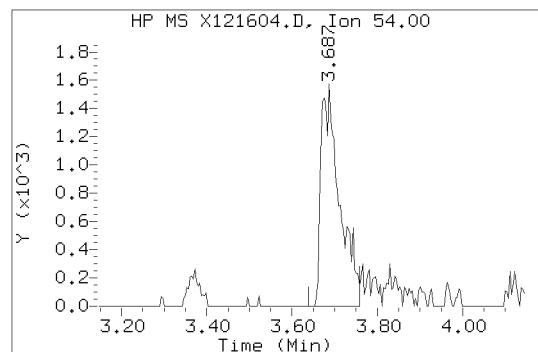
MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

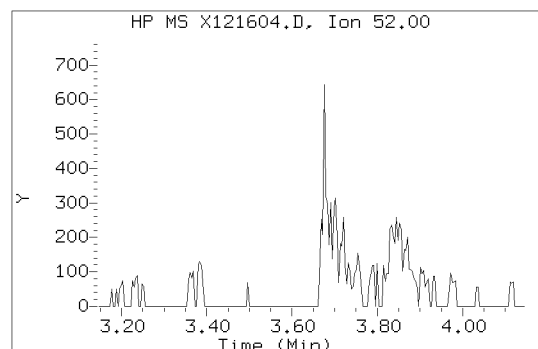
AFTER

MASS
54
AREA
4742
HEIGHT
1574
27-Dec-2022
16:07
linh
pham



AFTER

MASS
52
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

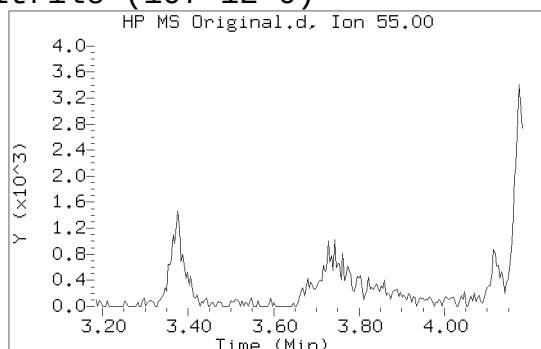


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
 Inj Date : 16-DEC-2022 12:41
 InstruID : voa6.i
 LabSampID : VSTD001

Propionitrile (107-12-0)

BEFORE

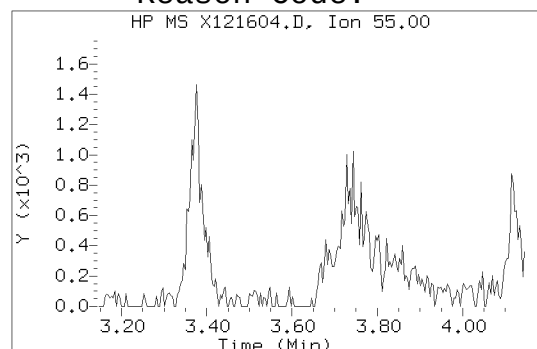
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

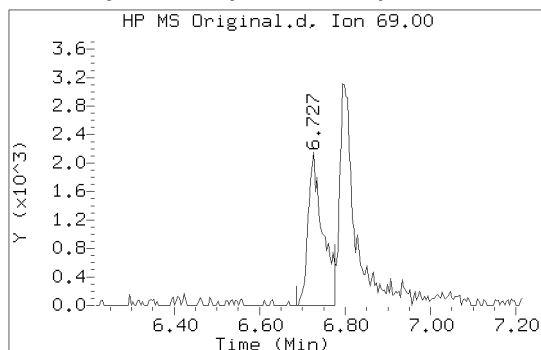
Reason Code:



Ethyl Methacrylate (97-63-2)

BEFORE

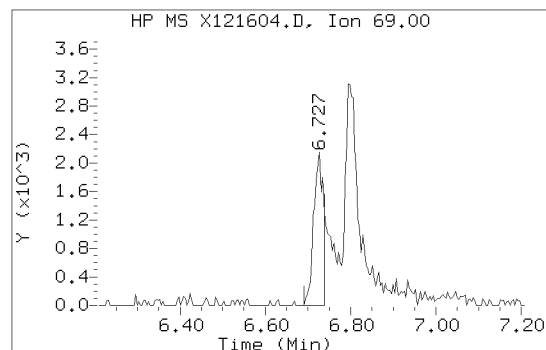
MASS
69
AREA
5177
HEIGHT
2156
27-Dec-2022
16:03
linh
pham



AFTER

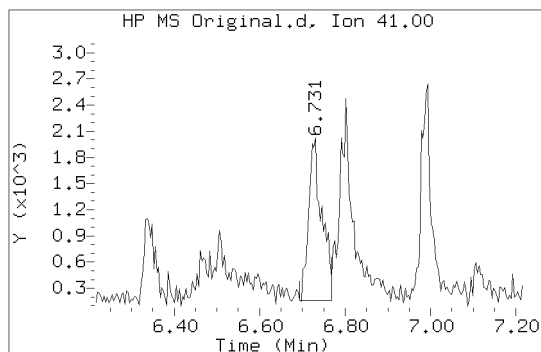
MASS
69
AREA
3303
HEIGHT
2156
27-Dec-2022
16:07
linh
pham

Reason Code:



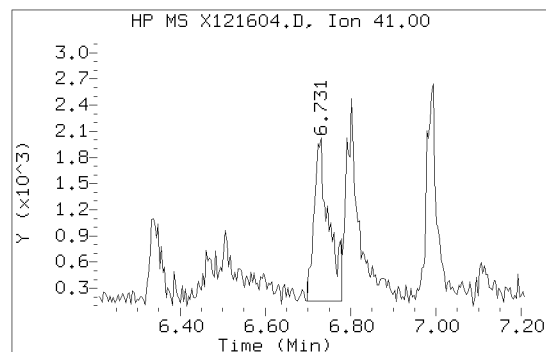
BEFORE

MASS
41
AREA
4059
HEIGHT
1867
27-Dec-2022
16:03
linh
pham



AFTER

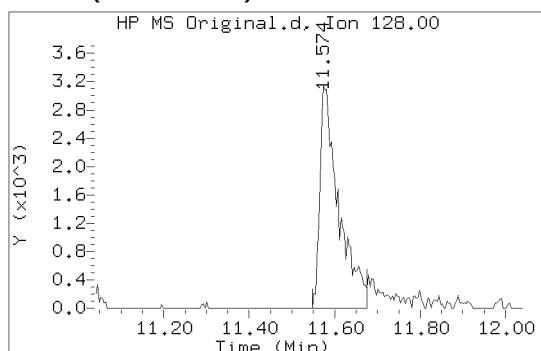
MASS
41
AREA
4485
HEIGHT
1872
27-Dec-2022
16:07
linh
pham



Naphthalene (91-20-3)

BEFORE

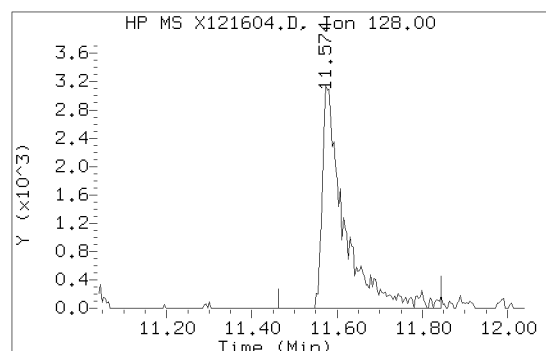
MASS
128
AREA
9627
HEIGHT
3139
27-Dec-2022
16:03
linh
pham



AFTER

MASS
128
AREA
11288
HEIGHT
3139
27-Dec-2022
16:07
linh
pham

Reason Code:

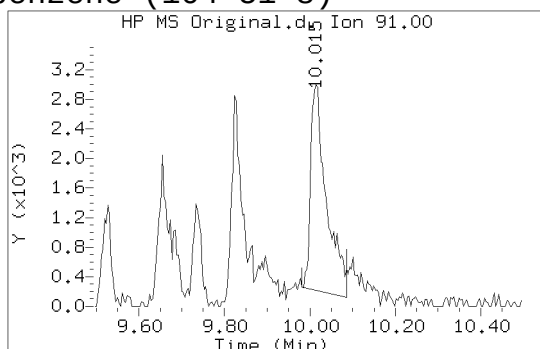


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
 Inj Date : 16-DEC-2022 12:41
 InstruID : voa6.i
 LabSampID : VSTD001

n-Butylbenzene (104-51-8)

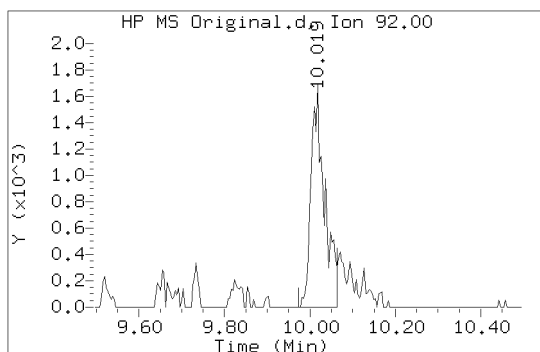
BEFORE

MASS
91
AREA
7194
HEIGHT
2783
27-Dec-2022
16:03
linh



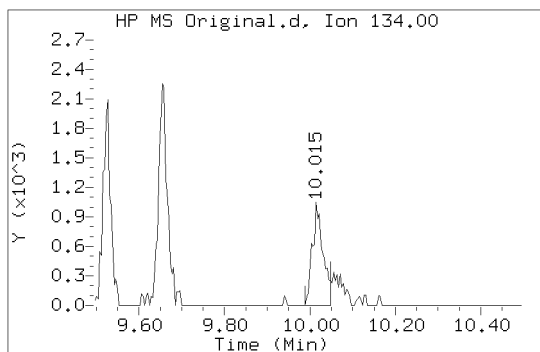
BEFORE

MASS
92
AREA
3696
HEIGHT
1686
27-Dec-2022
16:03
linh
pham



BEFORE

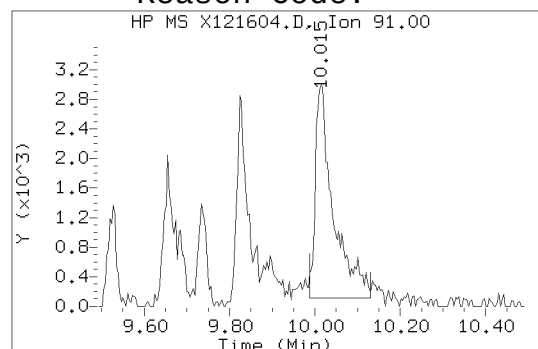
MASS
134
AREA
1829
HEIGHT
1051
27-Dec-2022
16:03
linh
pham



Reason Code:

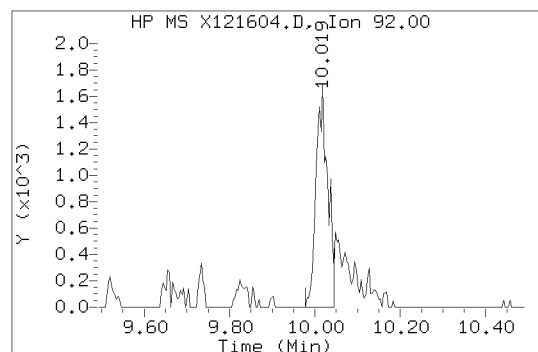
AFTER

MASS
91
AREA
8459
HEIGHT
2887
27-Dec-2022
16:07
linh



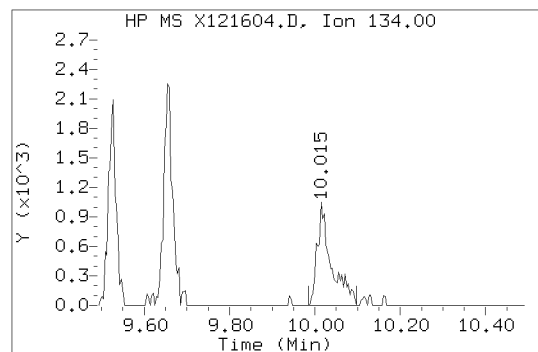
AFTER

MASS
92
AREA
3188
HEIGHT
1686
27-Dec-2022
16:07
linh
pham



AFTER

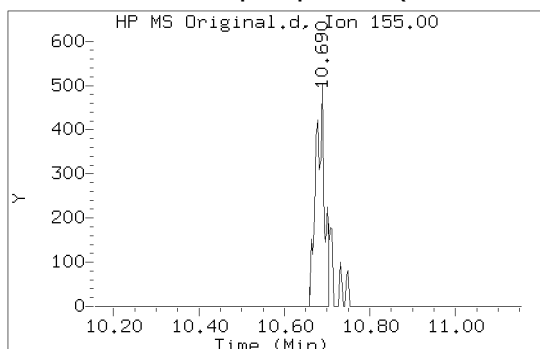
MASS
134
AREA
2397
HEIGHT
1051
27-Dec-2022
16:07
linh
pham



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

BEFORE

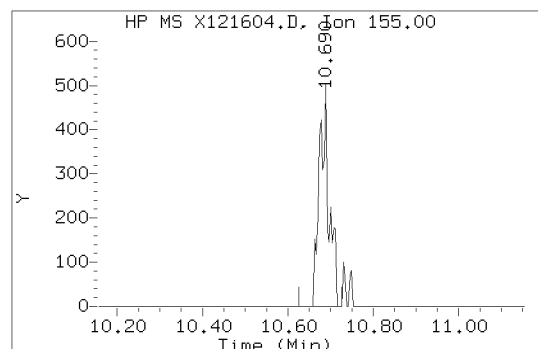
MASS
155
AREA
699
HEIGHT
502
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
155
AREA
778
HEIGHT
502
27-Dec-2022
16:07
linh
pham

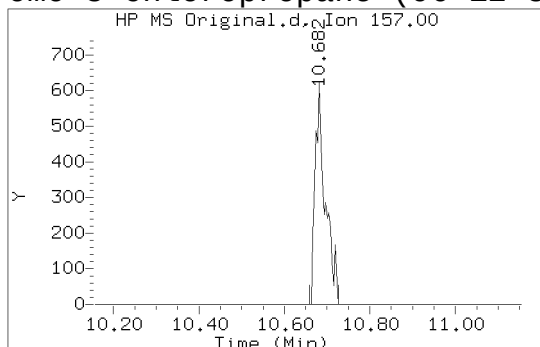


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
 Inj Date : 16-DEC-2022 12:41
 InstruID : voa6.i
 LabSampID : VSTD001

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

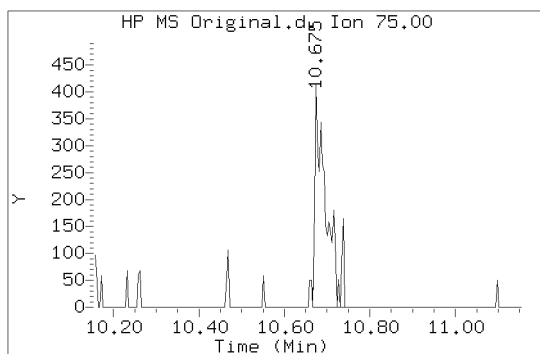
BEFORE

MASS
157
AREA
1023
HEIGHT
622
27-Dec-2022
16:03
linh



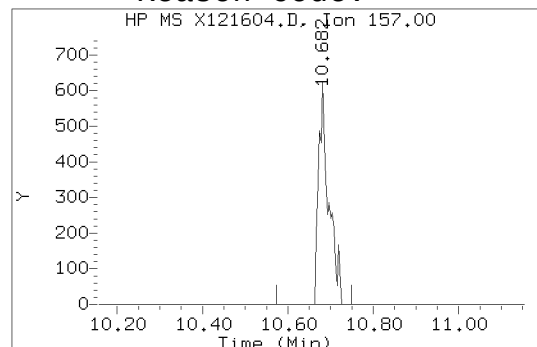
BEFORE

MASS
75
AREA
742
HEIGHT
413
27-Dec-2022
16:03
linh
pham



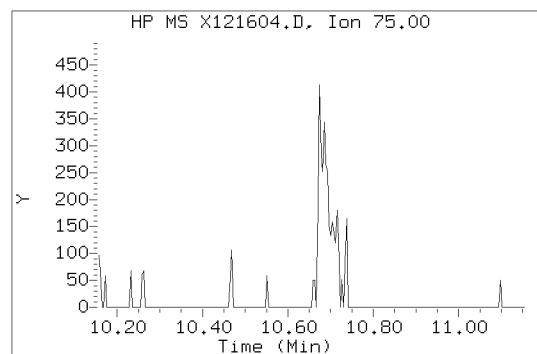
AFTER

MASS
157
AREA
1023
HEIGHT
622
27-Dec-2022
16:07
linh



AFTER

MASS
75
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

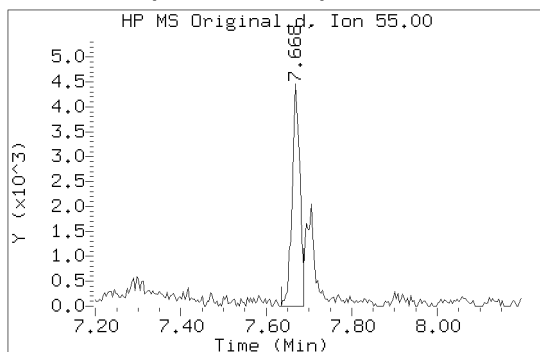


Reason Code:

1-Chlorohexane (544-10-5)

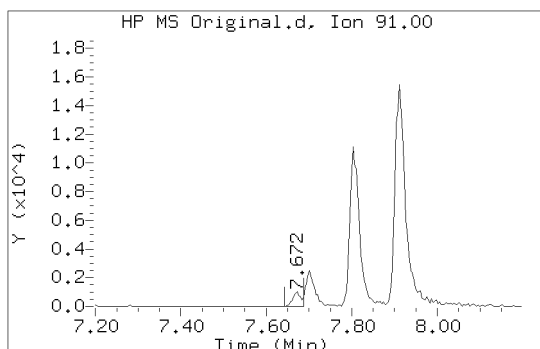
BEFORE

MASS
55
AREA
5660
HEIGHT
4460
27-Dec-2022
16:03
linh
pham



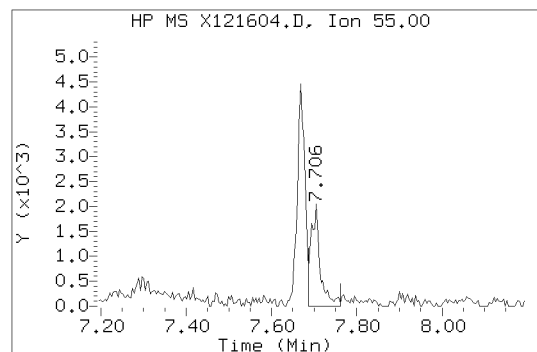
BEFORE

MASS
91
AREA
1392
HEIGHT
1029
27-Dec-2022
16:03
linh
pham



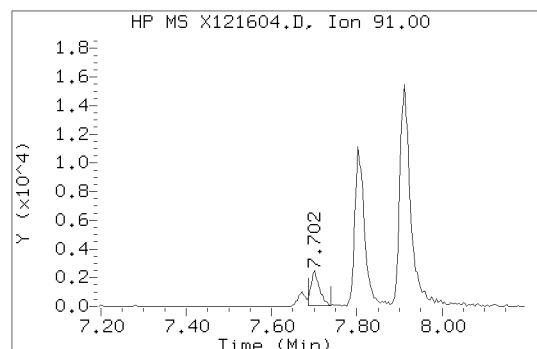
AFTER

MASS
55
AREA
3155
HEIGHT
2048
27-Dec-2022
16:07
linh
pham



AFTER

MASS
91
AREA
3448
HEIGHT
2478
27-Dec-2022
16:07
linh
pham



Reason Code:

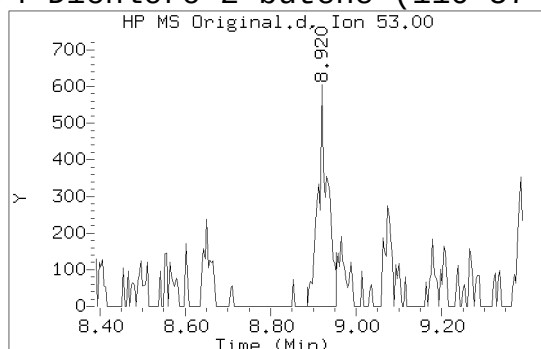


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
 Inj Date : 16-DEC-2022 12:41
 InstruID : voa6.i
 LabSampID : VSTD001

trans-1,4-Dichloro-2-butene (110-57-6)

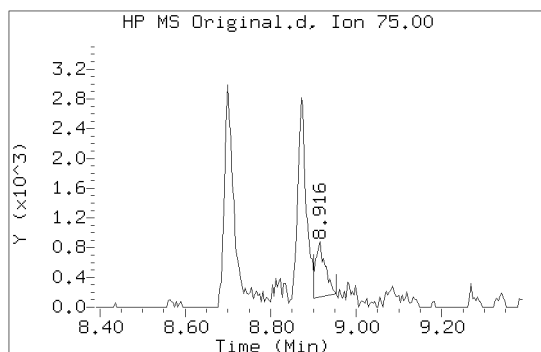
BEFORE

MASS
53
AREA
956
HEIGHT
605
27-Dec-2022
16:03
linh



BEFORE

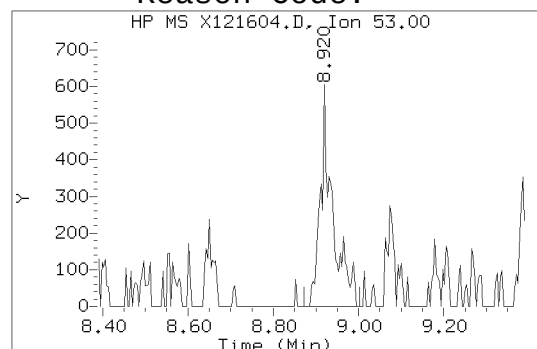
MASS
75
AREA
1166
HEIGHT
745
27-Dec-2022
16:03
linh
pham



AFTER

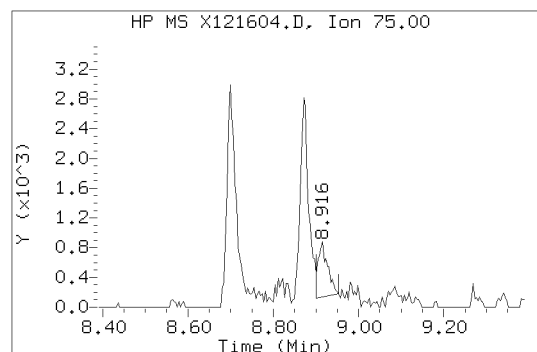
MASS
53
AREA
1196
HEIGHT
605
27-Dec-2022
16:07
linh

Reason Code:



AFTER

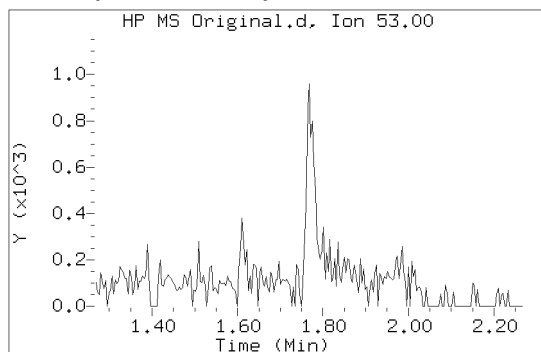
MASS
75
AREA
1166
HEIGHT
745
27-Dec-2022
16:07
linh
pham



Chloroprene (126-99-8)

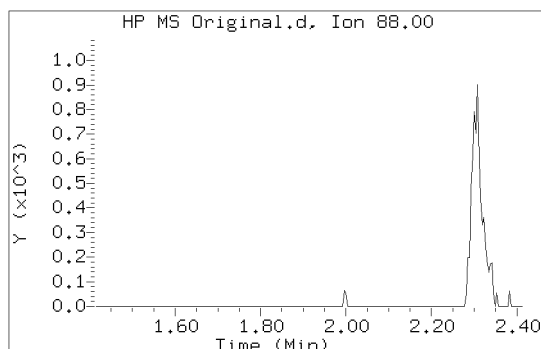
BEFORE

MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

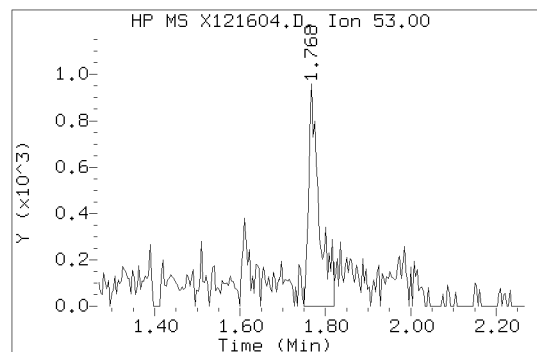
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

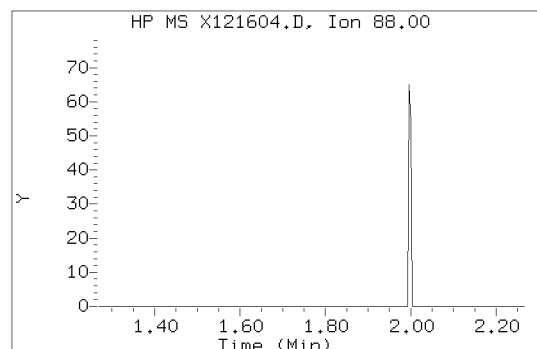
MASS
53
AREA
1686
HEIGHT
959
27-Dec-2022
16:07
linh
pham

Reason Code:



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

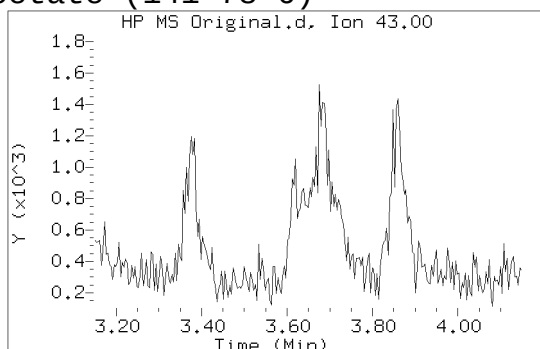


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

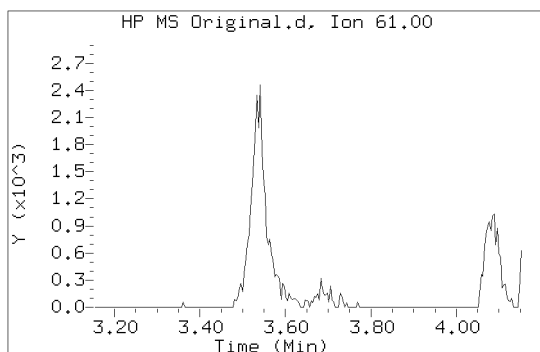
BEFORE

MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh



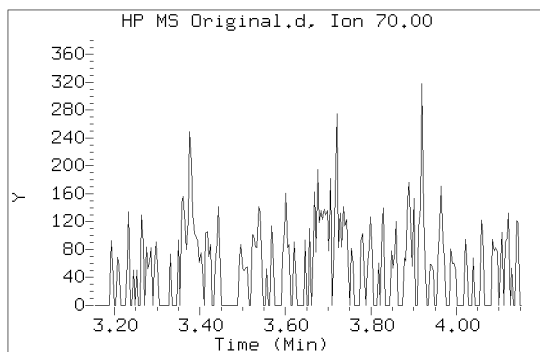
BEFORE

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



BEFORE

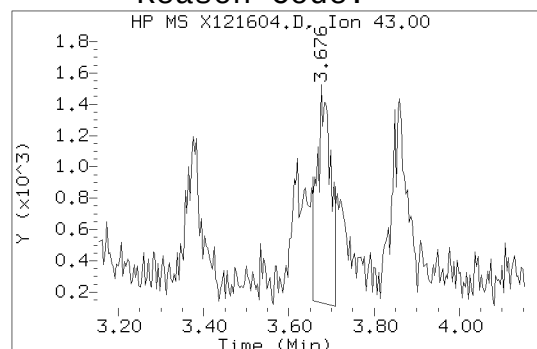
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

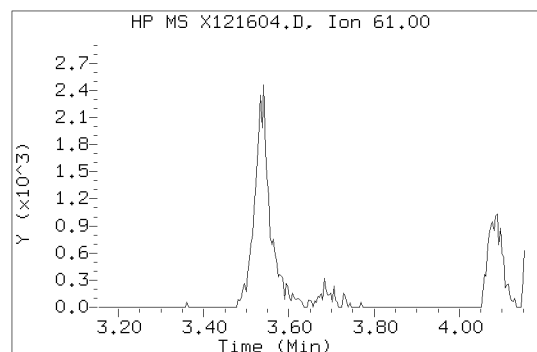
AFTER

MASS
43
AREA
3144
HEIGHT
1392
27-Dec-2022
16:07
linh



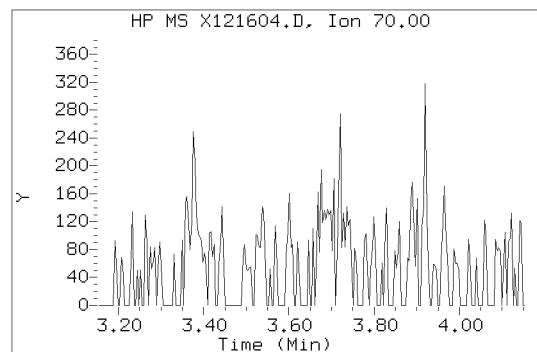
AFTER

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



AFTER

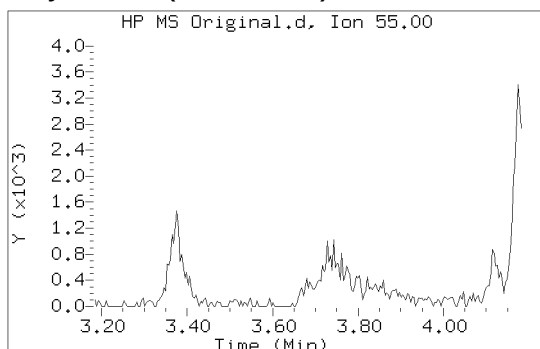
MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Methyl Acrylate (96-33-3)

BEFORE

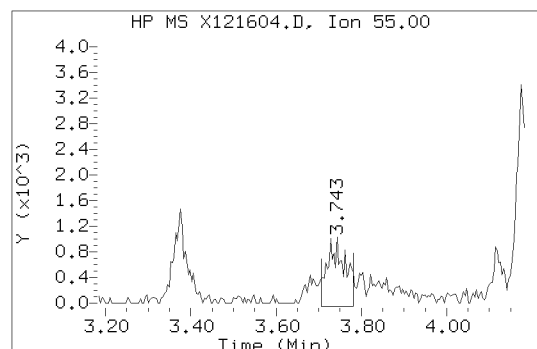
MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
55
AREA
3084
HEIGHT
1078
27-Dec-2022
16:07
linh
pham

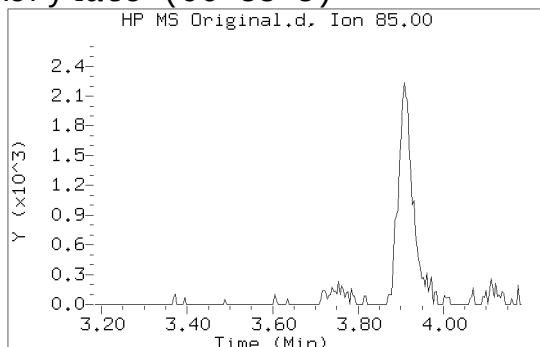


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

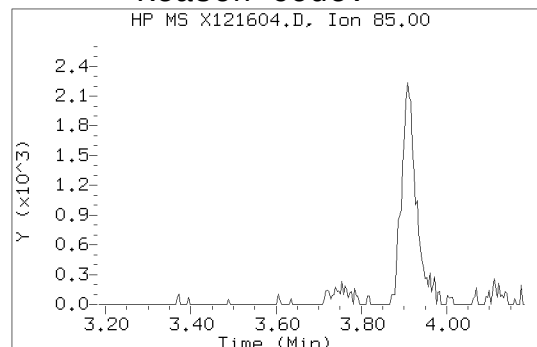
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

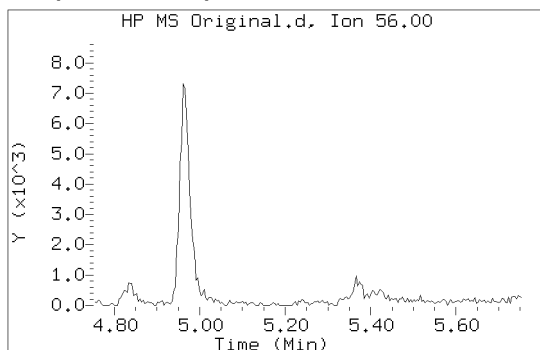
MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



n-Butanol (71-36-3)

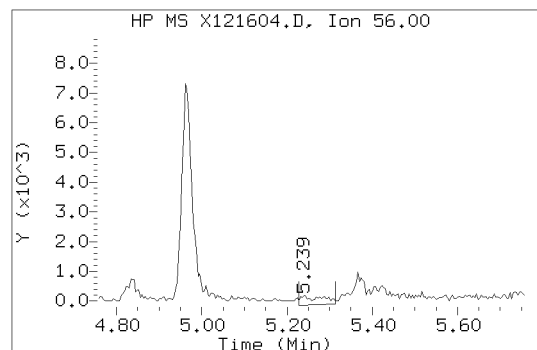
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



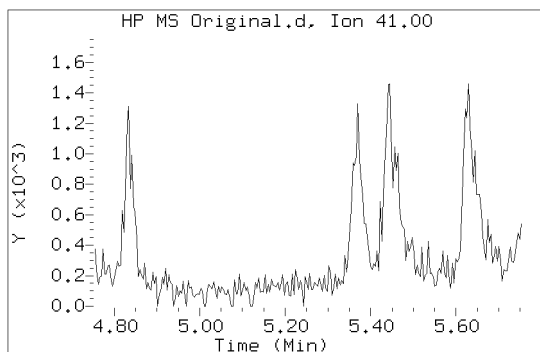
AFTER

MASS
56
AREA
1171
HEIGHT
317
27-Dec-2022
16:07
linh
pham



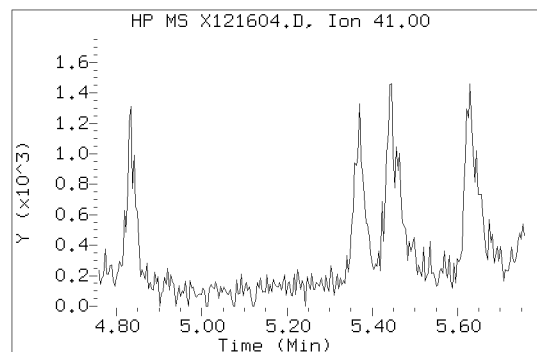
BEFORE

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

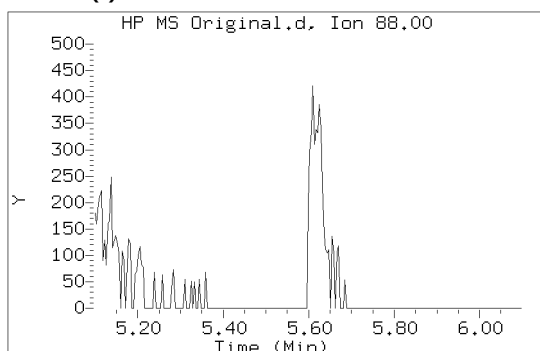
MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



1,4-Dioxane ()

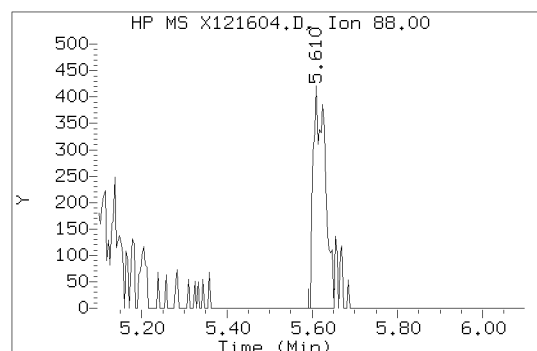
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
820
HEIGHT
421
27-Dec-2022
16:07
linh
pham

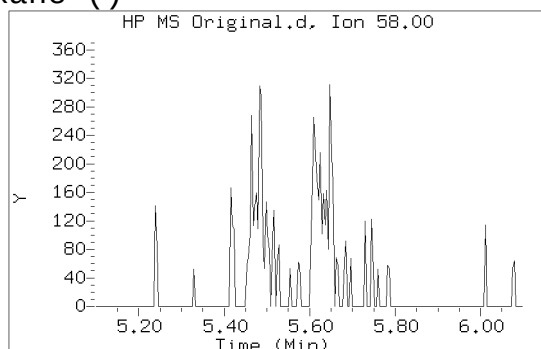


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121604.D
 Inj Date : 16-DEC-2022 12:41
 InstruID : voa6.i
 LabSampID : VSTD001

1,4-Dioxane ()

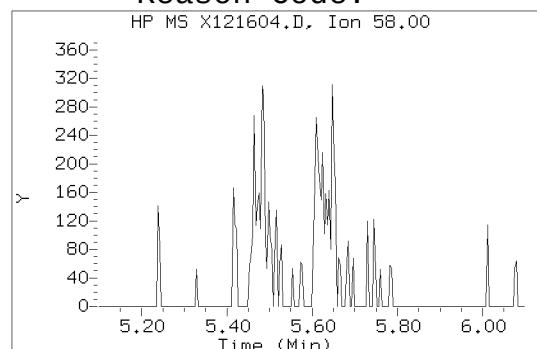
BEFORE

MASS
58
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HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

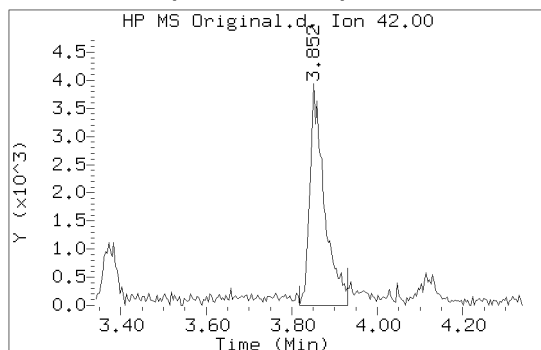


Reason Code:

Tetrahydrofuran (109-99-9)

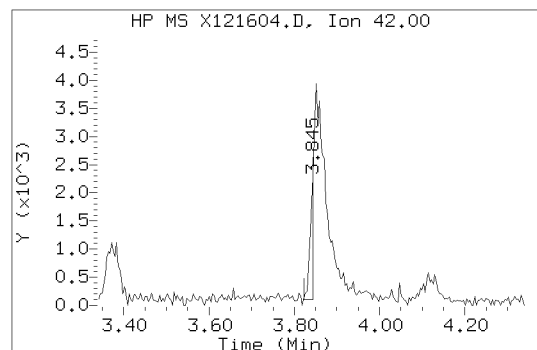
BEFORE

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AREA
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HEIGHT
3939
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16:03
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pham



AFTER

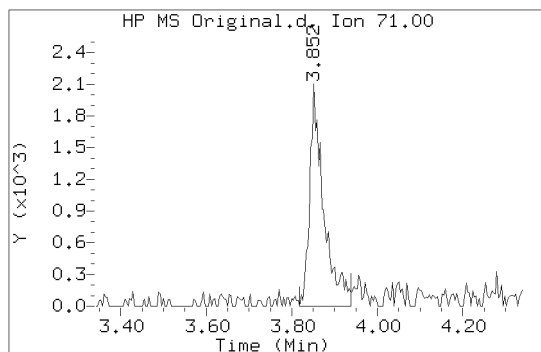
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16:07
linh
pham



Reason Code:

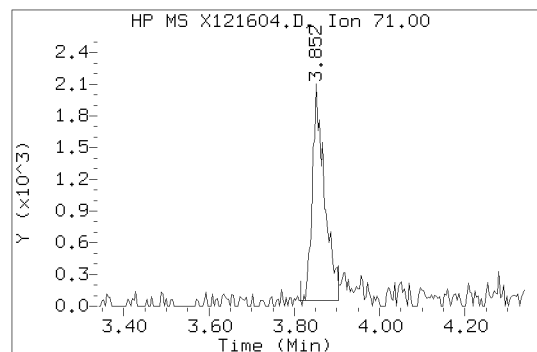
BEFORE

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HEIGHT
2103
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AFTER

MASS
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HEIGHT
2046
27-Dec-2022
16:07
linh
pham

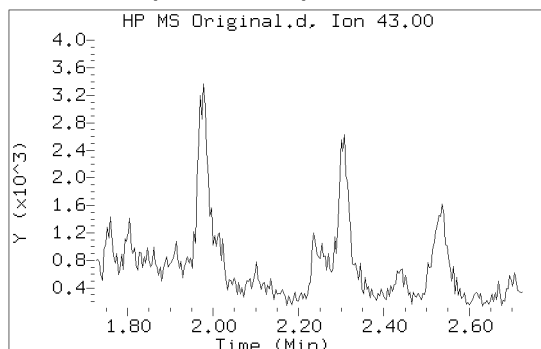


Reason Code:

Methyl Acetate (79-20-9)

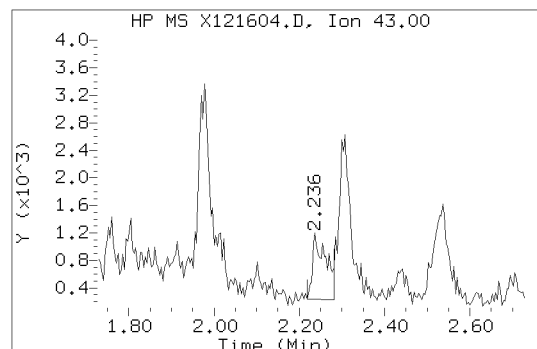
BEFORE

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AREA
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HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
2127
HEIGHT
968
27-Dec-2022
16:07
linh
pham



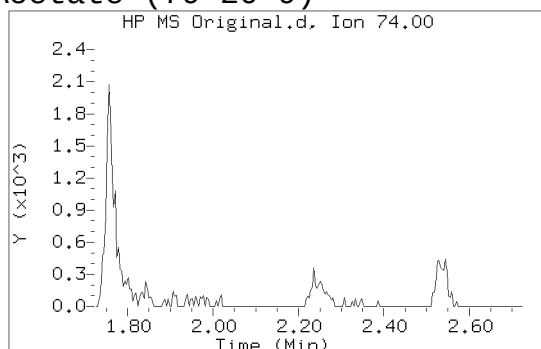
Reason Code:

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 InstruID : voa6.i
 LabSampID : VSTD001

Methyl Acetate (79-20-9)

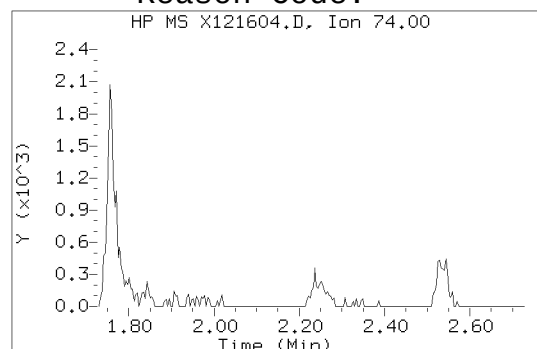
BEFORE

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74
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
74
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

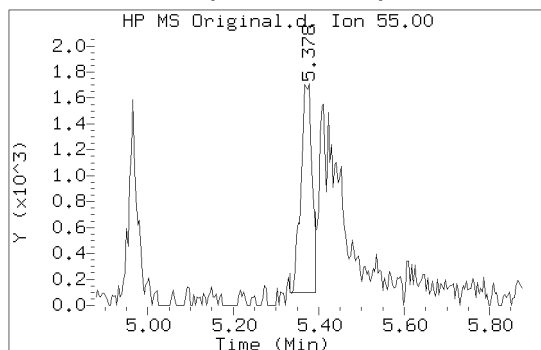


Reason Code:

Methylcyclohexane (108-87-2)

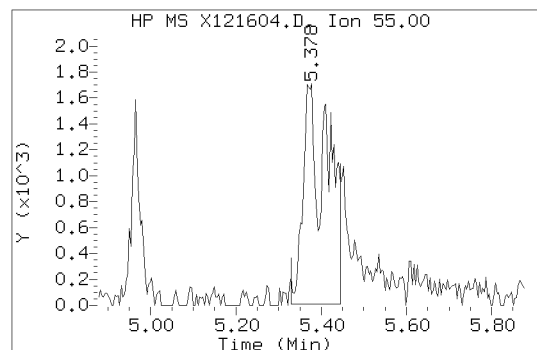
BEFORE

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AREA
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HEIGHT
1612
27-Dec-2022
16:03
linh
pham



AFTER

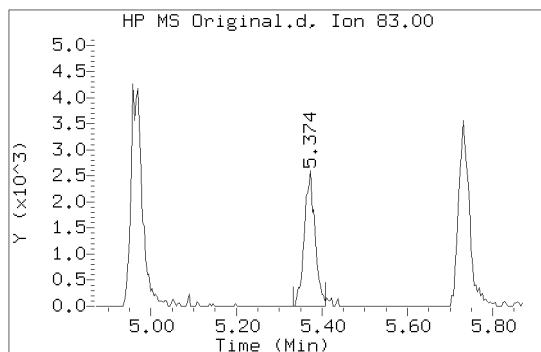
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AREA
6848
HEIGHT
1699
27-Dec-2022
16:07
linh
pham



Reason Code:

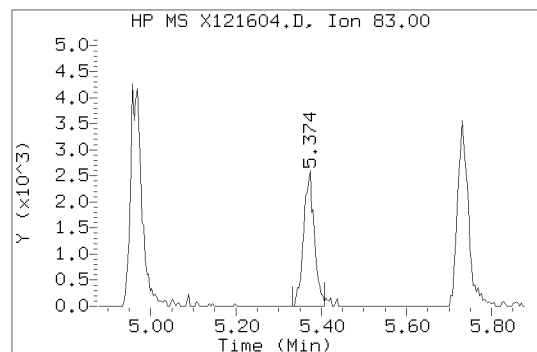
BEFORE

MASS
83
AREA
4577
HEIGHT
2601
27-Dec-2022
16:03
linh
pham



AFTER

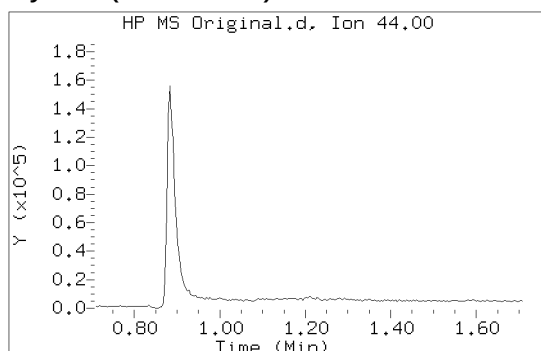
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AREA
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HEIGHT
2601
27-Dec-2022
16:07
linh
pham



Acetaldehyde (75-07-0)

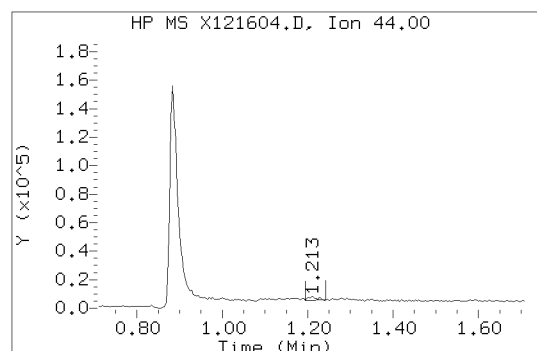
BEFORE

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44
AREA
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HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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AREA
3384
HEIGHT
2655
27-Dec-2022
16:07
linh
pham

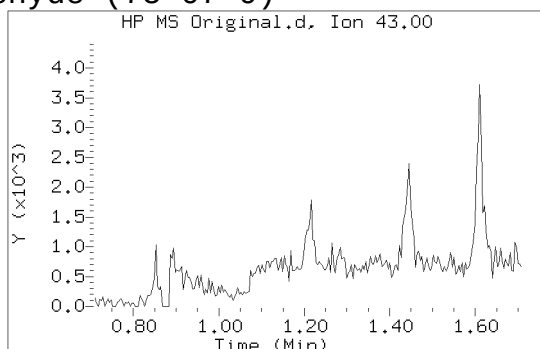


Reason Code:

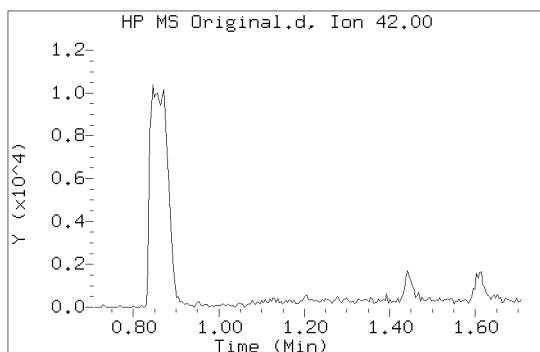
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Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)**BEFORE**

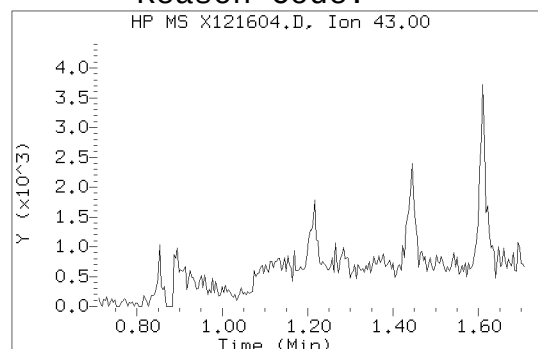
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh

**BEFORE**

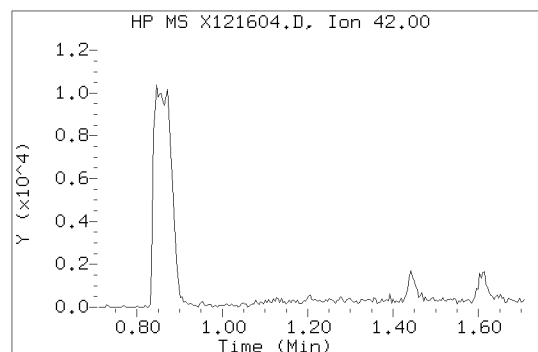
MASS
42
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

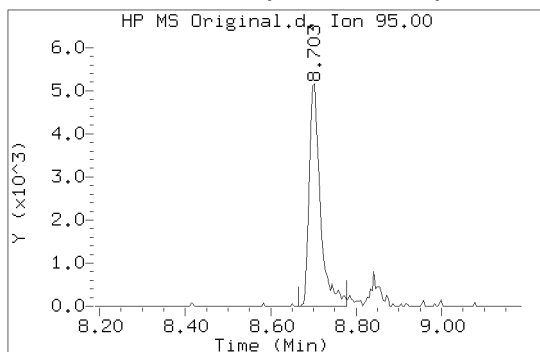
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AREA
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HEIGHT
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27-Dec-2022
16:07
linh

**AFTER**

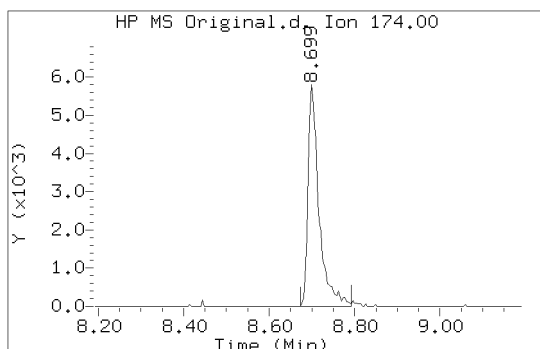
MASS
42
AREA
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HEIGHT
0
27-Dec-2022
16:07
linh
pham

**4-Bromofluorobenzene (460-00-4)****BEFORE**

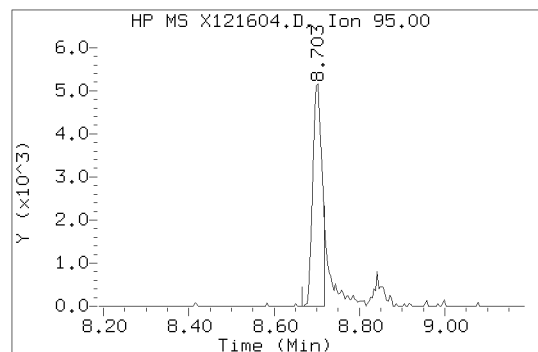
MASS
95
AREA
9514
HEIGHT
5159
27-Dec-2022
16:03
linh
pham

**BEFORE**

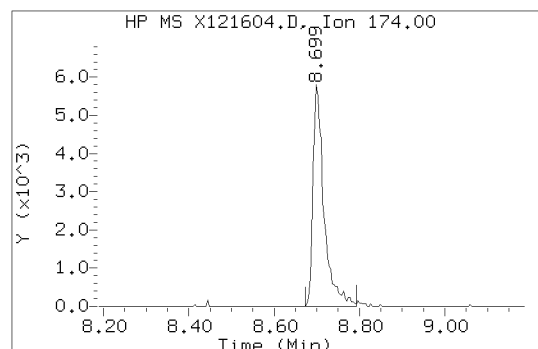
MASS
174
AREA
10505
HEIGHT
5802
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

MASS
95
AREA
7790
HEIGHT
5159
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
174
AREA
10505
HEIGHT
5802
27-Dec-2022
16:07
linh
pham

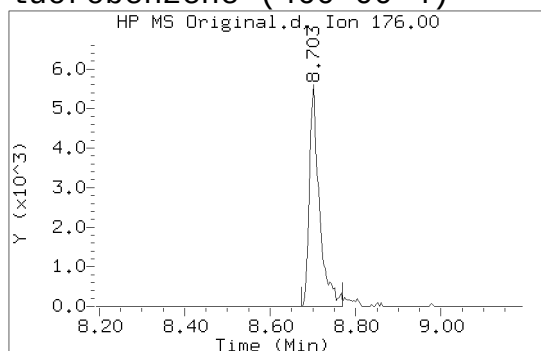


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121604.D
Inj Date : 16-DEC-2022 12:41
InstruID : voa6.i
LabSampID : VSTD001

4-Bromofluorobenzene (460-00-4)

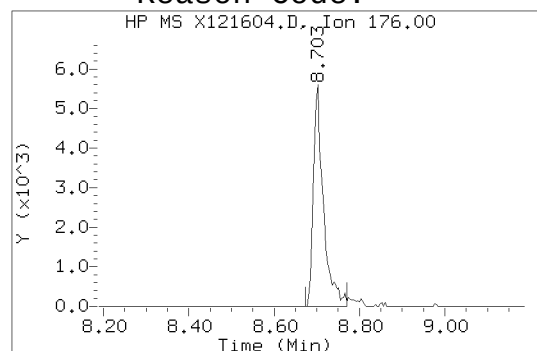
BEFORE

MASS
176
AREA
9226
HEIGHT
5603
27-Dec-2022
16:03
linh
pham



AFTER

MASS
176
AREA
9226
HEIGHT
5603
27-Dec-2022
16:07
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
 Lab Smp Id: VSTD002 Client Smp ID: VSTD002
 Inj Date : 16-DEC-2022 13:02
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD002;VSTD002;1;4;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 12:41 Cal File: X121604.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		456374	50.0000	
135 1,4-Dioxane	88		5.610	5.610	(1.343)		1409	40.0000	33.77(M)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		5733	2.00000	1.83
25 Methacrylonitrile	41		3.859	3.859	(0.924)		6388	2.00000	1.97(M)
12 Isobutyl Alcohol	43		4.684	4.684	(1.121)		20629	40.0000	40.18(M)
13 Acetonitrile	39		2.198	2.198	(0.526)		7764	20.0000	18.69
14 Allyl Chloride	41		2.206	2.206	(0.528)		14911	2.00000	1.88
4 Propionitrile	54		3.675	3.675	(0.880)		8651	20.0000	18.57
136 n-Hexane	57		2.768	2.768	(0.663)		5898	2.00000	1.79
72 trans-1,4-Dichloro-2-butene	53		8.920	8.920	(1.163)		2690	2.00000	1.92(M)
194 Acetaldehyde	44		1.212	1.212	(0.290)		5661	8.00000	(M)
23 Chloroprene	53		1.771	1.771	(0.424)		3126	2.00000	2.01(M)
145 alpha-Methylstyrene	118		9.268	9.268	(0.959)		14447	2.00000	1.84
200 Dimethyl Disulfide	94		6.202	6.202	(0.808)		15964	2.00000	1.82
139 Diethyl ether	59		1.756	1.756	(0.420)		6354	2.00000	2.08
130 Ethyl Acetate	43		3.675	3.675	(0.880)		7422	2.00000	2.08(M)
40 Methyl Methacrylate	41		5.617	5.617	(1.345)		6185	2.00000	1.98
49 Ethyl Methacrylate	69		6.715	6.715	(1.353)		6546	2.00000	2.03
132 n-Butanol	56		5.343	5.343	(1.279)		2004	40.0000	74.77(TM)
142 Tetrahydrofuran	42		3.848	3.848	(0.921)		2867	4.00000	2.04(M)



150 Allyl alcohol	57	2.768	2.768 (0.663)	5898	40.0000	33.27
166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	35687	2.00000	2.10



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D Page 2
Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.720	3.720	(0.891)	5443	2.00000	1.75(M)
162 Butyl acrylate	55	8.267	8.267	(1.078)	15015	2.00000	1.77
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	6239	2.00000	2.33
3 Chloromethane	50	1.077	1.077	(0.258)	8057	2.00000	4.07
5 Vinyl Chloride	62	1.141	1.141	(0.273)	7263	2.00000	1.82
6 Bromomethane	94	1.340	1.340	(0.321)	5996	2.00000	3.68(M)
7 Chloroethane	64	1.400	1.400	(0.335)	5667	2.00000	2.04(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	10463	2.00000	1.87
9 Acrolein	56	1.441	1.441	(0.345)	1317	4.00000	6.92(M)
10 Acetone	43	1.973	1.973	(0.472)	7041	4.00000	5.46(M)
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	6862	2.00000	1.98
15 Iodomethane	142	2.022	2.022	(0.484)	8702	4.00000	5.23
16 Acrylonitrile	53	2.554	2.554	(0.611)	4557	4.00000	3.87(M)
17 Methylene Chloride	84	2.303	2.303	(0.551)	9194	2.00000	1.93(M)
18 Methyl tert-butyl ether	73	2.536	2.536	(0.607)	23231	2.00000	2.04
19 Carbon Disulfide	76	2.067	2.067	(0.495)	34948	4.00000	3.85
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	7113	2.00000	1.83
21 Vinyl Acetate	43	3.008	3.008	(0.720)	38835	4.00000	3.90
22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	12778	2.00000	1.87
24 2-Butanone	43	3.604	3.604	(0.863)	5418	4.00000	6.89(M)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	11048	2.00000	1.91
27 cis-1,2-Dichloroethene	96	3.529	3.529	(0.845)	9675	2.00000	2.05
28 Chloroform	83	3.908	3.908	(0.935)	15581	2.00000	2.04
29 Bromochloromethane	128	3.803	3.803	(0.910)	5134	2.00000	1.98
\$ 30 Dibromofluoromethane	113	4.106	4.106	(0.983)	9050	2.00000	1.90
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	10962	2.00000	1.81
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	9042	2.00000	1.86
33 1,2-Dichloroethane	62	4.560	4.560	(0.918)	10812	2.00000	1.92
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	11092	2.00000	2.13(M)
\$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	9783	2.00000	2.37
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	684444	50.0000	
37 Benzene	78	4.515	4.515	(0.909)	32394	2.00000	1.98
38 Trichloroethene	130	5.216	5.216	(1.051)	9277	2.00000	2.00
39 Bromodichloromethane	83	5.733	5.733	(1.155)	11961	2.00000	1.94
41 2-Chloroethylvinyl ether	63	6.059	6.059	(1.220)	6648	4.00000	3.80
42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	8129	2.00000	1.86(M)
44 Dibromomethane	93	5.553	5.553	(1.119)	6110	2.00000	2.06
45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	14771	4.00000	4.26
46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	13738	2.00000	1.90
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	647809	50.0000	
\$ 48 Toluene-d8	98	6.393	6.393	(0.833)	31289	2.00000	1.95
50 Toluene	91	6.453	6.453	(0.841)	35620	2.00000	1.98
51 trans-1,3-Dichloropropene	75	6.693	6.693	(1.348)	10969	2.00000	1.83
52 2-Hexanone	43	7.105	7.105	(0.926)	9314	4.00000	3.95
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	7537	2.00000	2.09
54 1,3-Dichloropropane	76	6.989	6.989	(0.911)	14049	2.00000	1.98
55 Dibromochloromethane	129	7.180	7.180	(0.936)	10210	2.00000	1.96
56 Tetrachloroethene	164	6.929	6.929	(0.903)	7331	2.00000	1.97
57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	8477	2.00000	1.88
58 1-Chlorohexane	55	7.697	7.697	(1.550)	5855	2.00000	1.77(MH)
59 Chlorobenzene	112	7.694	7.694	(1.003)	24558	2.00000	1.93
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.013)	9378	2.00000	1.98



61 Ethylbenzene	106	7.802	7.802 (1.017)	11791	2.00000	1.97
62 m,p-Xylenes	106	7.911	7.911 (1.031)	29170	4.00000	3.78



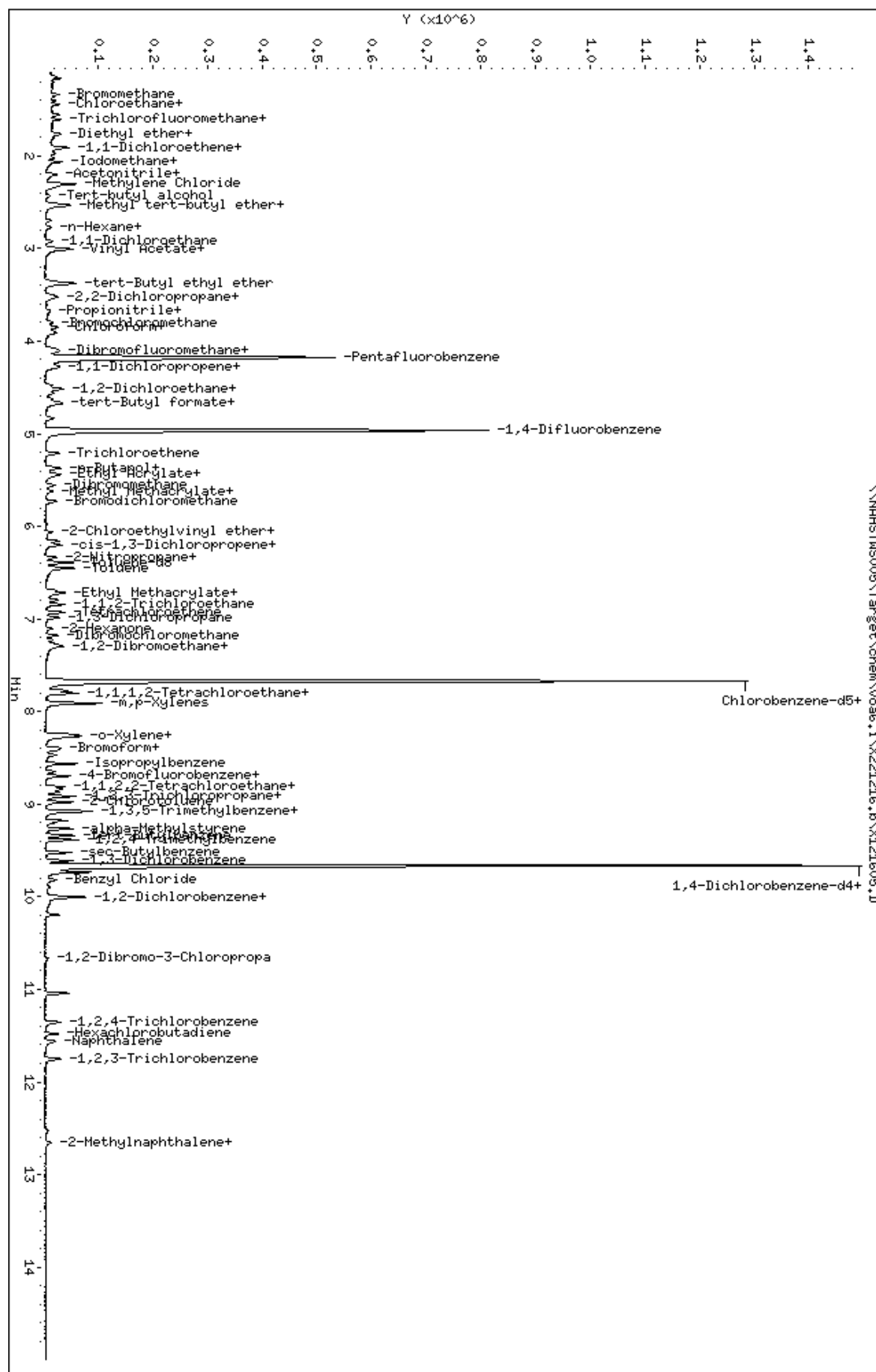
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.249	8.249	(1.075)	14764	2.00000	1.93
64 Styrene	104	8.271	8.271	(1.078)	22967	2.00000	1.80
66 Bromoform	173	8.417	8.417	(1.097)	6949	2.00000	1.93(T)
67 Isopropylbenzene	105	8.563	8.563	(1.116)	32641	2.00000	1.87
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	11741	2.00000	2.08
\$ 69 4-Bromofluorobenzene	95	8.698	8.698	(1.134)	13631	2.00000	2.33
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	352851	50.0000	
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	7514	2.00000	1.91
73 n-Propylbenzene	91	8.916	8.916	(0.923)	34981	2.00000	1.78
74 Bromobenzene	156	8.815	8.815	(0.912)	11721	2.00000	2.02
75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	27917	2.00000	1.93
76 2-Chlorotoluene	91	8.980	8.980	(0.929)	26853	2.00000	2.09
77 4-Chlorotoluene	91	9.077	9.077	(0.939)	28173	2.00000	1.92
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	22104	2.00000	1.87
79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	28377	2.00000	1.86
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	27643	2.00000	1.75
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	24966	2.00000	1.77
83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	18708	2.00000	1.94
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	20552	2.00000	1.96
86 Benzyl Chloride	91	9.819	9.819	(1.280)	12783	2.00000	3.88
87 n-Butylbenzene	91	10.003	10.003	(1.035)	19853	2.00000	3.18(M)
88 1,2-Dichlorobenzene	146	9.999	9.999	(1.035)	18921	2.00000	1.91
89 1,2-Dibromo-3-Chloropropane	155	10.678	10.678	(1.105)	1619	2.00000	1.88(M)
90 1,2,4-Trichlorobenzene	180	11.352	11.352	(1.175)	11764	2.00000	1.88(M)
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	3970	2.00000	1.39
92 Naphthalene	128	11.559	11.559	(1.196)	26250	2.00000	1.84(M)
93 1,2,3-Trichlorobenzene	180	11.750	11.750	(1.216)	11288	2.00000	1.88
M 94 1,2-Dichloroethylene (total)	96				16788	4.00000	
M 95 Xylenes (total)	106				43934	6.00000	
141 Cyclohexane	56	4.125	4.125	(0.987)	7375	2.00000	2.82(H)
138 Freon TF	101	1.917	1.917	(0.459)	6025	2.00000	1.79
147 Methylcyclohexane	55	5.373	5.373	(1.082)	16016	2.00000	1.91(M)
146 Methyl Acetate	43	2.247	2.247	(0.538)	4149	2.00000	2.02
148 Tert-Butyl alcohol	59	2.434	2.434	(0.583)	12015	40.0000	38.02(a)
149 Isopropyl Alcohol	45	2.101	2.101	(0.503)	5607	40.0000	33.97

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\X221216.b\X121605.D
 Date : 16-DEC-2022 13:02
 Client ID: WSTD002
 Sample Info: WSTD002;WSTD002;114;
 Purge Volume: 5.0
 Column phase: DB624

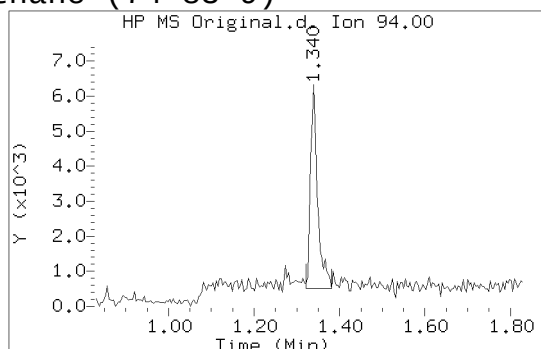
Instrument: voa6.i
 Operator: PC
 Column diameter: 0.18



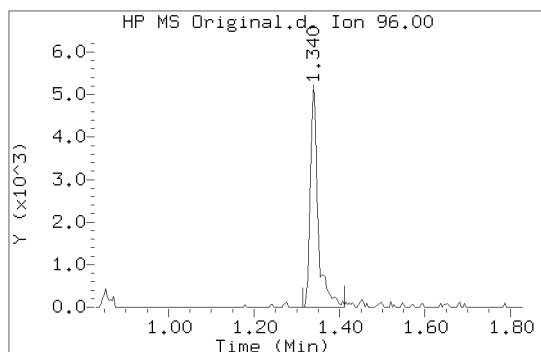
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Bromomethane (74-83-9)**BEFORE**

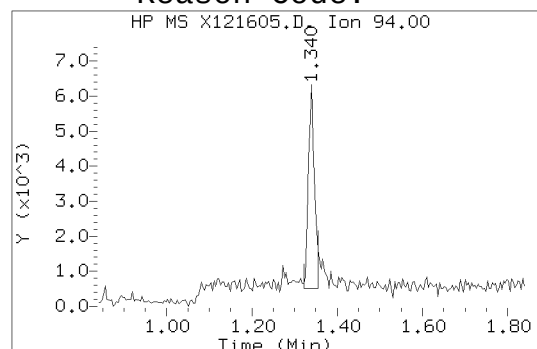
MASS
94
AREA
6762
HEIGHT
5808
27-Dec-2022
16:03
linh

**BEFORE**

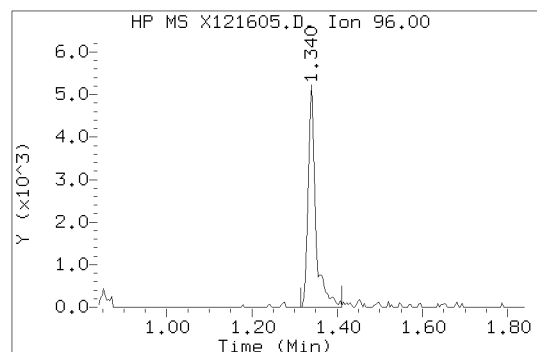
MASS
96
AREA
6661
HEIGHT
5227
27-Dec-2022
16:03
linh
pham

**AFTER**

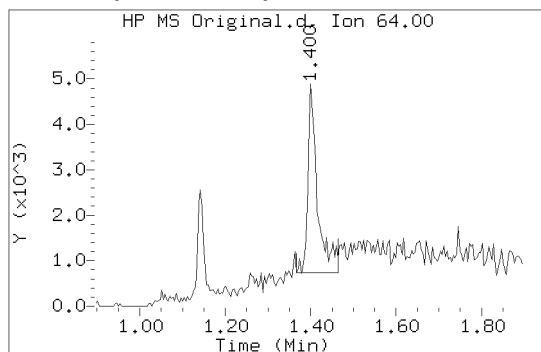
MASS
94
AREA
5996
HEIGHT
5808
27-Dec-2022
16:07
linh

**AFTER**

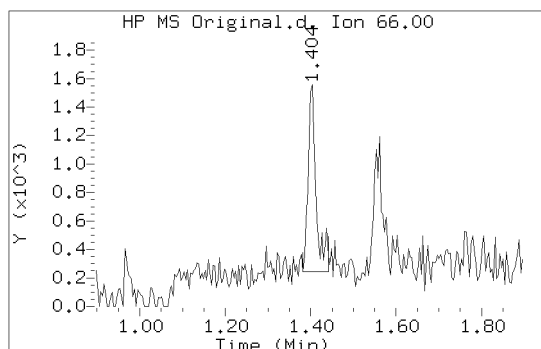
MASS
96
AREA
6661
HEIGHT
5227
27-Dec-2022
16:07
linh
pham

**Chloroethane (75-00-3)****BEFORE**

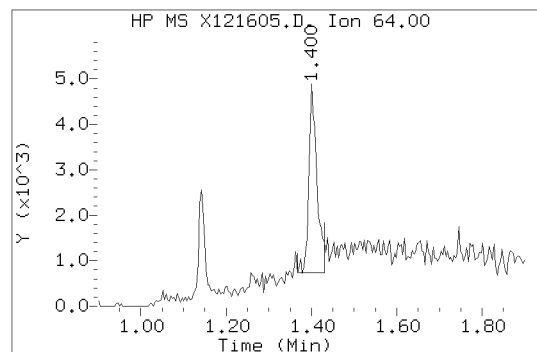
MASS
64
AREA
6641
HEIGHT
4162
27-Dec-2022
16:03
linh
pham

**BEFORE**

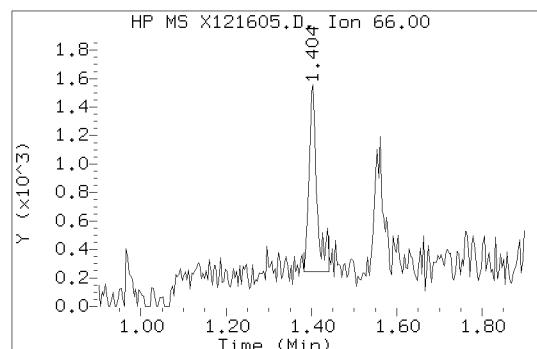
MASS
66
AREA
1745
HEIGHT
1315
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
64
AREA
5667
HEIGHT
4162
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
66
AREA
1745
HEIGHT
1315
27-Dec-2022
16:07
linh
pham

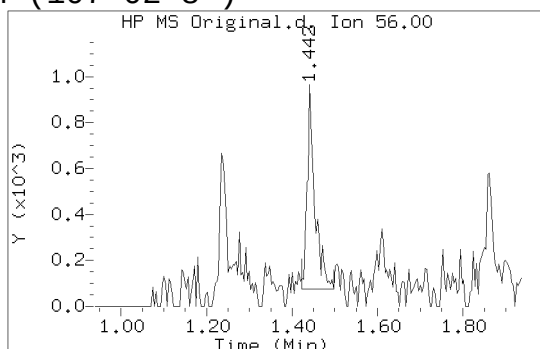


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Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Acrolein (107-02-8)

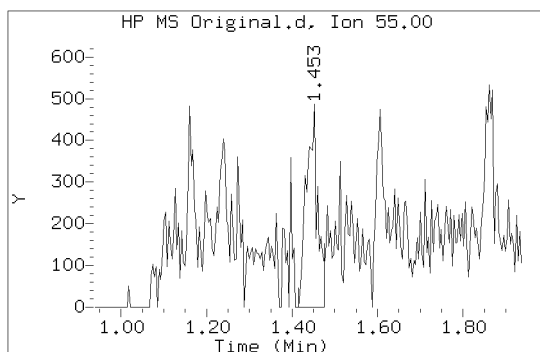
BEFORE

MASS
56
AREA
1122
HEIGHT
890
27-Dec-2022
16:03
linh



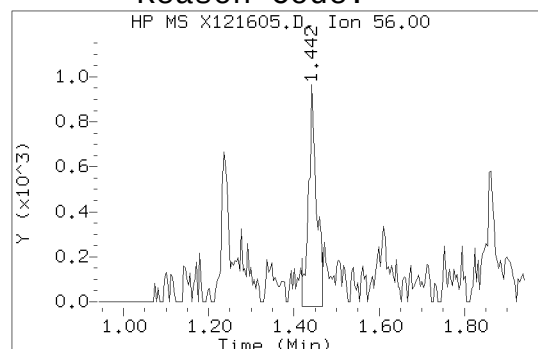
BEFORE

MASS
55
AREA
885
HEIGHT
487
27-Dec-2022
16:03
linh
pham



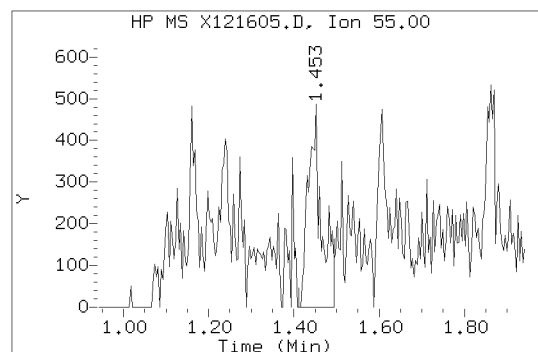
AFTER

MASS
56
AREA
1317
HEIGHT
985
27-Dec-2022
16:07
linh



AFTER

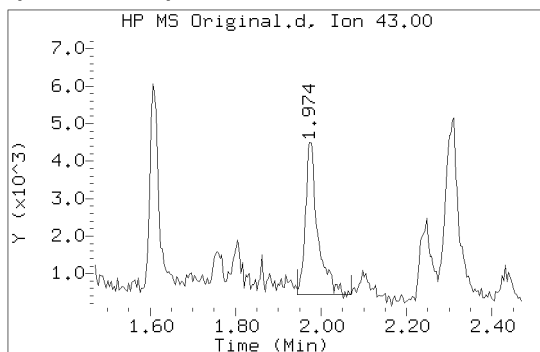
MASS
55
AREA
1067
HEIGHT
487
27-Dec-2022
16:07
linh
pham



Acetone (67-64-1)

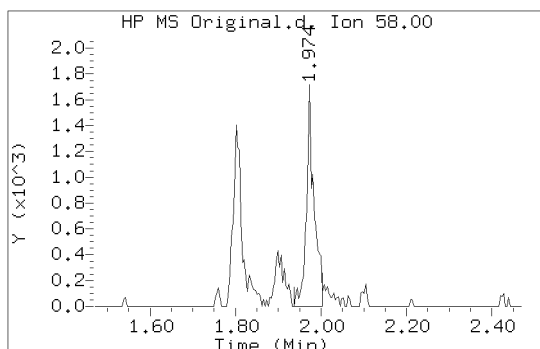
BEFORE

MASS
43
AREA
8369
HEIGHT
4066
27-Dec-2022
16:03
linh
pham



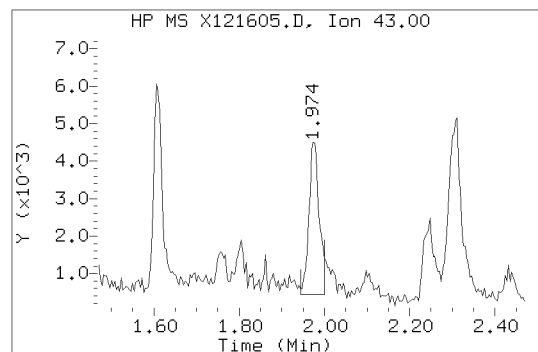
BEFORE

MASS
58
AREA
2165
HEIGHT
1717
27-Dec-2022
16:03
linh
pham



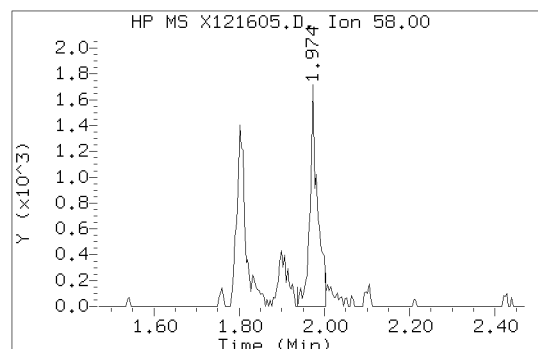
AFTER

MASS
43
AREA
7041
HEIGHT
4066
27-Dec-2022
16:07
linh
pham



AFTER

MASS
58
AREA
2165
HEIGHT
1717
27-Dec-2022
16:07
linh
pham

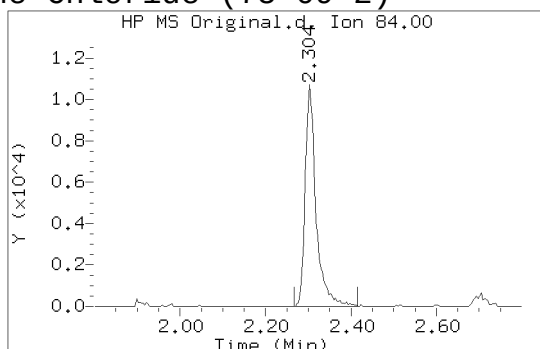


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
 Inj Date : 16-DEC-2022 13:02
 InstruID : voa6.i
 LabSampID : VSTD002

Methylene Chloride (75-09-2)

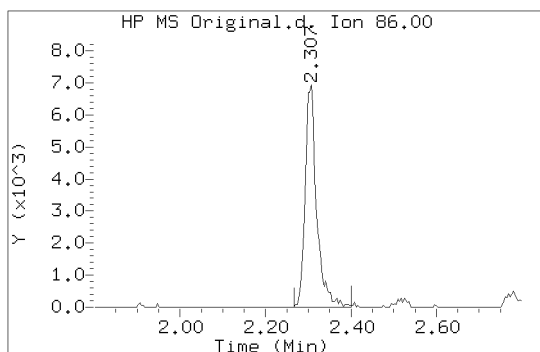
BEFORE

MASS
84
AREA
19299
HEIGHT
10710
27-Dec-2022
16:03
linh



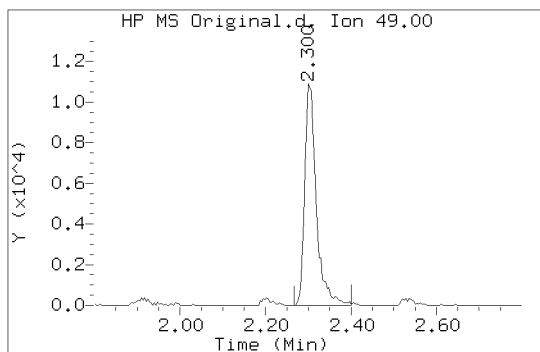
BEFORE

MASS
86
AREA
13231
HEIGHT
6936
27-Dec-2022
16:03
linh
pham



BEFORE

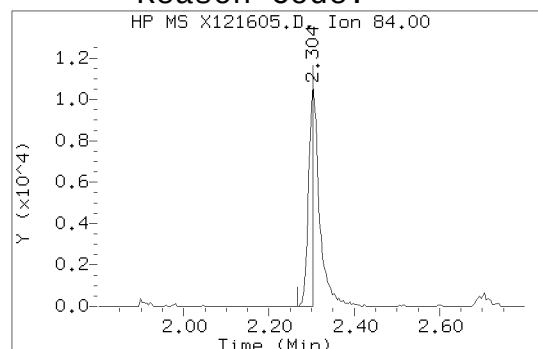
MASS
49
AREA
21067
HEIGHT
10905
27-Dec-2022
16:03
linh
pham



Reason Code:

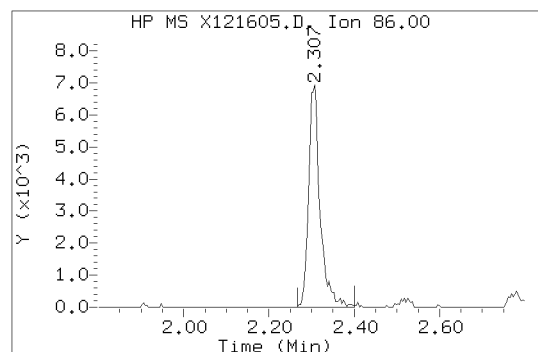
AFTER

MASS
84
AREA
9194
HEIGHT
10710
27-Dec-2022
16:07
linh



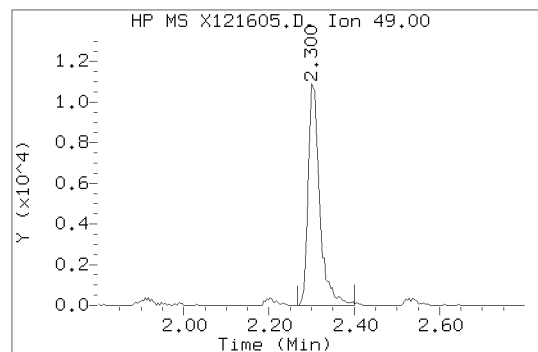
AFTER

MASS
86
AREA
13231
HEIGHT
6936
27-Dec-2022
16:07
linh
pham



AFTER

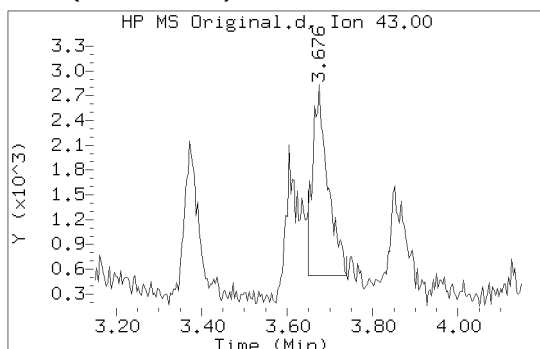
MASS
49
AREA
21067
HEIGHT
10905
27-Dec-2022
16:07
linh
pham



2-Butanone (78-93-3)

BEFORE

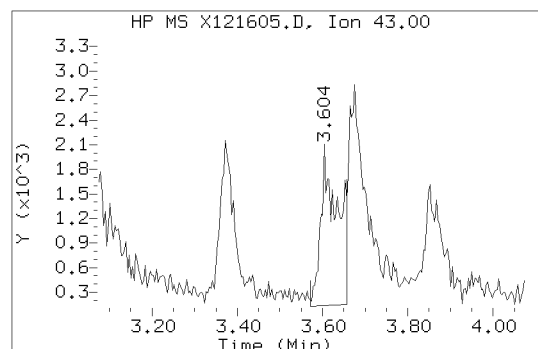
MASS
43
AREA
5778
HEIGHT
2307
27-Dec-2022
16:03
linh
pham



Reason Code:

AFTER

MASS
43
AREA
5418
HEIGHT
1969
27-Dec-2022
16:07
linh
pham

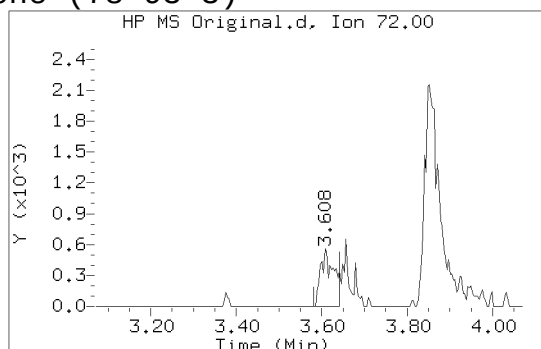


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121605.D
 Inj Date : 16-DEC-2022 13:02
 InstruID : voa6.i
 LabSampID : VSTD002

2-Butanone (78-93-3)

BEFORE

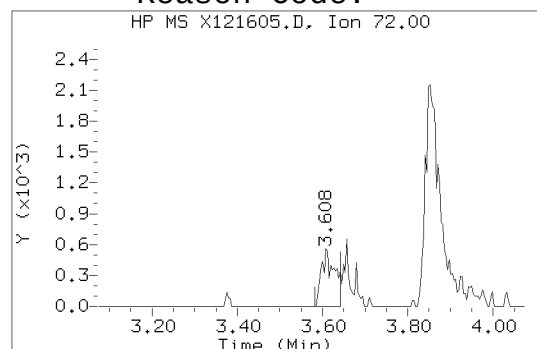
MASS
72
AREA
1209
HEIGHT
563
27-Dec-2022
16:03
linh
pham



AFTER

MASS
72
AREA
1209
HEIGHT
563
27-Dec-2022
16:07
linh
pham

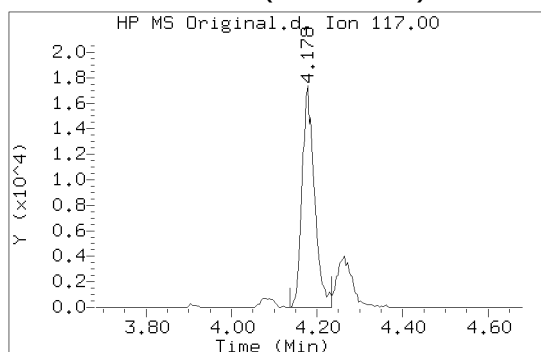
Reason Code:



Carbon Tetrachloride (56-23-5)

BEFORE

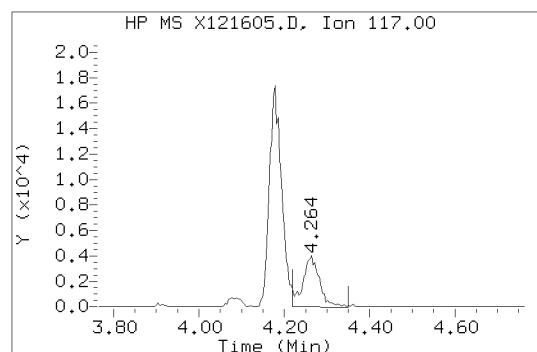
MASS
117
AREA
35555
HEIGHT
17376
27-Dec-2022
16:03
linh
pham



AFTER

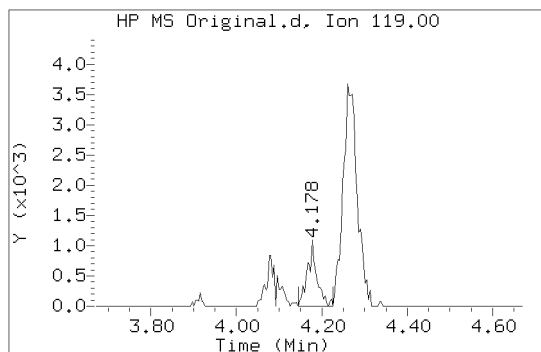
MASS
117
AREA
11092
HEIGHT
4036
27-Dec-2022
16:07
linh
pham

Reason Code:



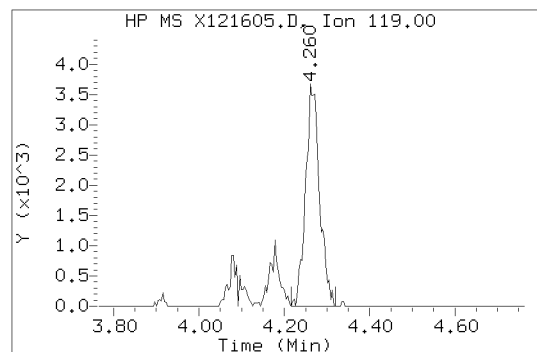
BEFORE

MASS
119
AREA
1692
HEIGHT
1100
27-Dec-2022
16:03
linh
pham



AFTER

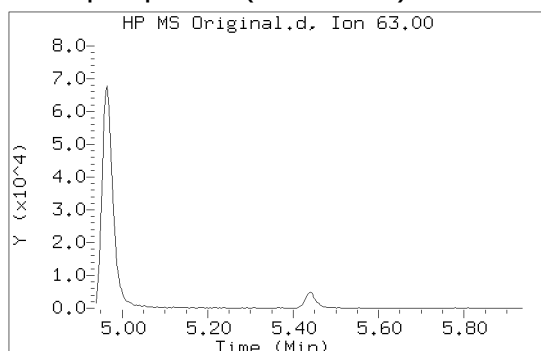
MASS
119
AREA
8494
HEIGHT
3676
27-Dec-2022
16:07
linh
pham



1,2-Dichloropropane (78-87-5)

BEFORE

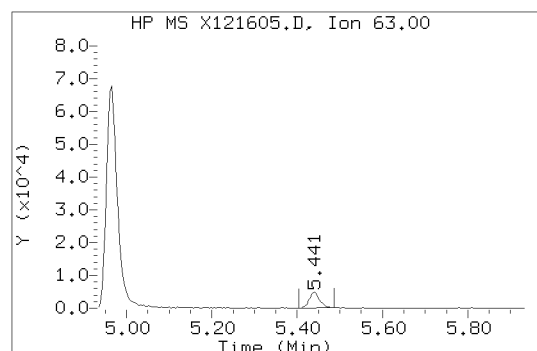
MASS
63
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
63
AREA
8129
HEIGHT
4705
27-Dec-2022
16:07
linh
pham

Reason Code:

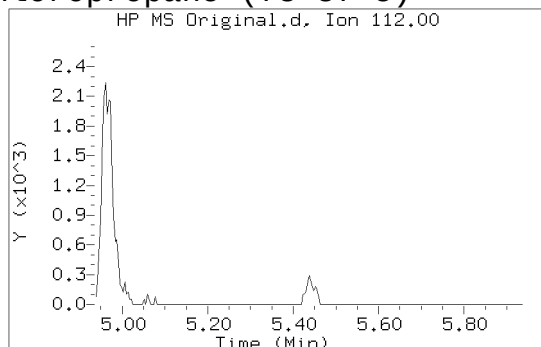


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichloropropane (78-87-5)

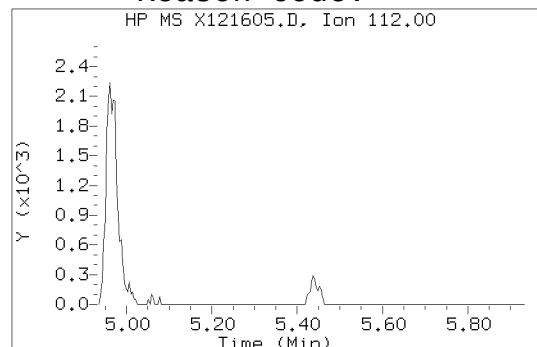
BEFORE

MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

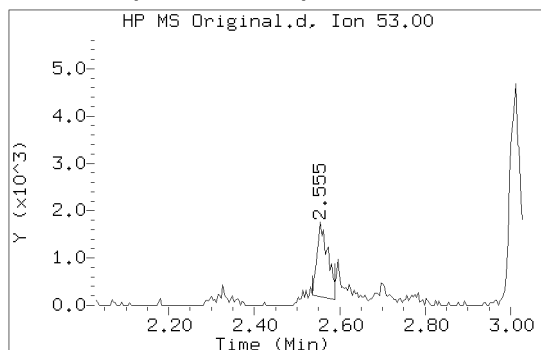
MASS
112
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Acrylonitrile (107-13-1)

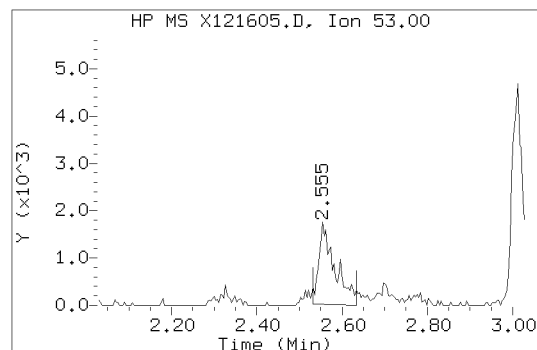
BEFORE

MASS
53
AREA
2810
HEIGHT
1577
27-Dec-2022
16:03
linh
pham



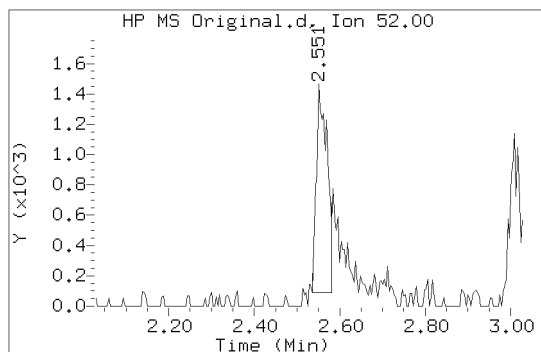
AFTER

MASS
53
AREA
4557
HEIGHT
1735
27-Dec-2022
16:07
linh
pham



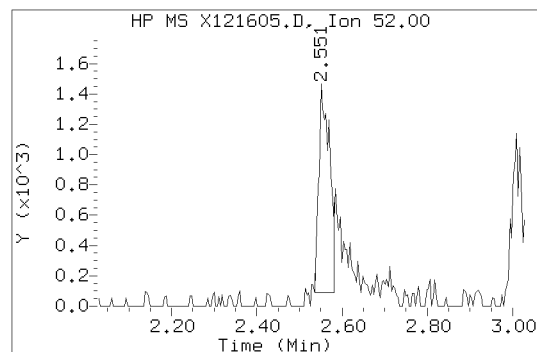
BEFORE

MASS
52
AREA
2408
HEIGHT
1379
27-Dec-2022
16:03
linh
pham



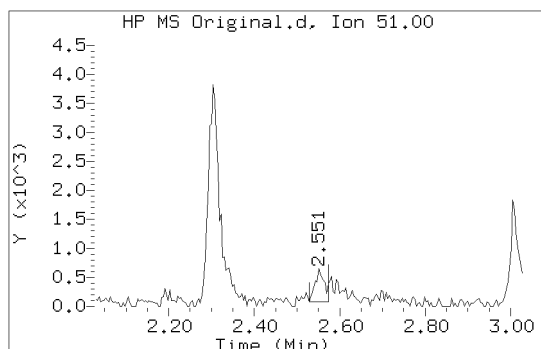
AFTER

MASS
52
AREA
2408
HEIGHT
1379
27-Dec-2022
16:07
linh
pham



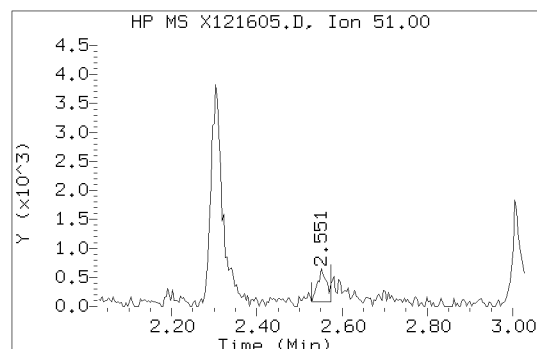
BEFORE

MASS
51
AREA
876
HEIGHT
575
27-Dec-2022
16:03
linh
pham



AFTER

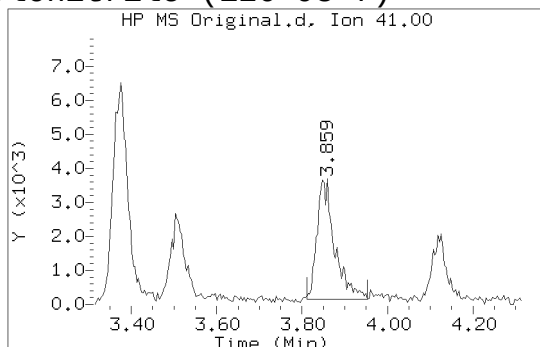
MASS
51
AREA
876
HEIGHT
575
27-Dec-2022
16:07
linh
pham



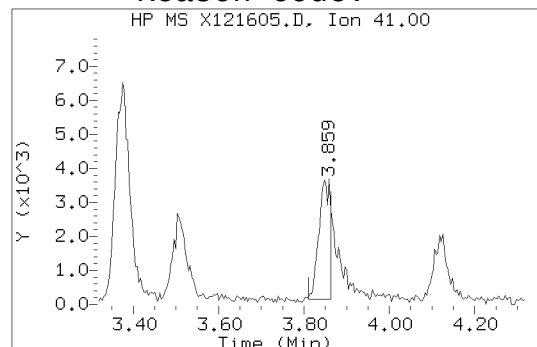
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Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Methacrylonitrile (126-98-7)**BEFORE**

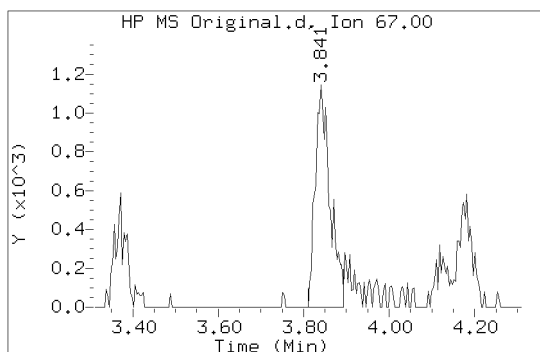
MASS
41
AREA
10013
HEIGHT
3544
27-Dec-2022
16:03
linh

**AFTER**

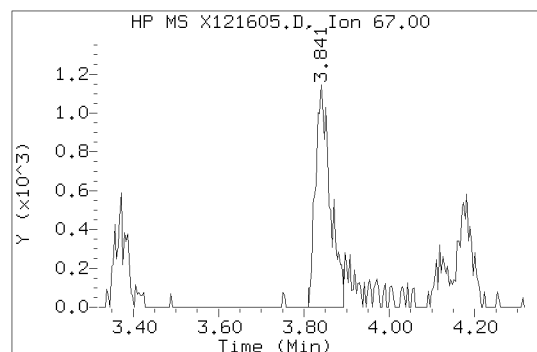
MASS
41
AREA
6388
HEIGHT
3544
27-Dec-2022
16:07
linh

**BEFORE**

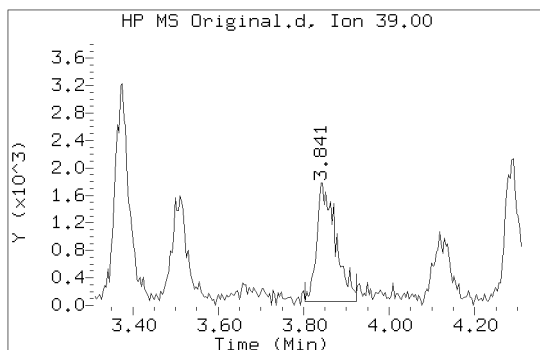
MASS
67
AREA
2751
HEIGHT
1145
27-Dec-2022
16:03
linh
pham

**AFTER**

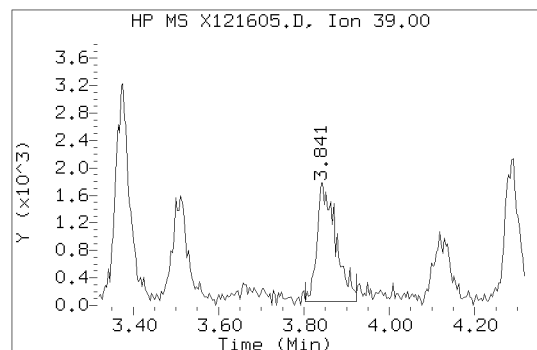
MASS
67
AREA
2751
HEIGHT
1145
27-Dec-2022
16:07
linh
pham

**BEFORE**

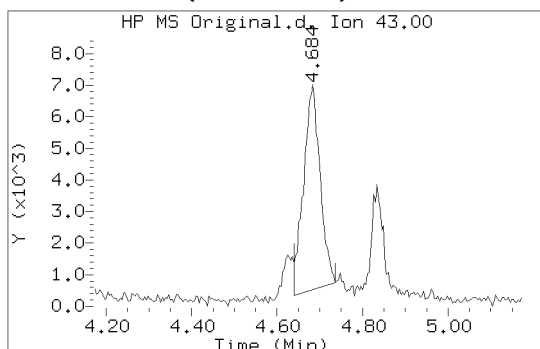
MASS
39
AREA
5310
HEIGHT
1724
27-Dec-2022
16:03
linh
pham

**AFTER**

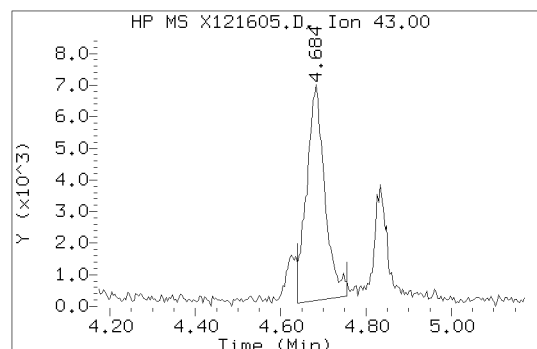
MASS
39
AREA
5310
HEIGHT
1724
27-Dec-2022
16:07
linh
pham

**Isobutyl Alcohol (78-83-1)****BEFORE**

MASS
43
AREA
17811
HEIGHT
6479
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
43
AREA
20629
HEIGHT
6832
27-Dec-2022
16:07
linh
pham

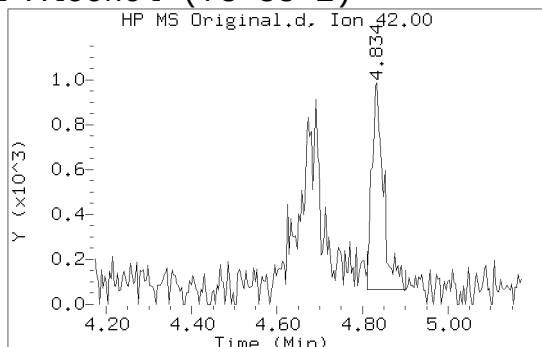


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
 Inj Date : 16-DEC-2022 13:02
 InstruID : voa6.i
 LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

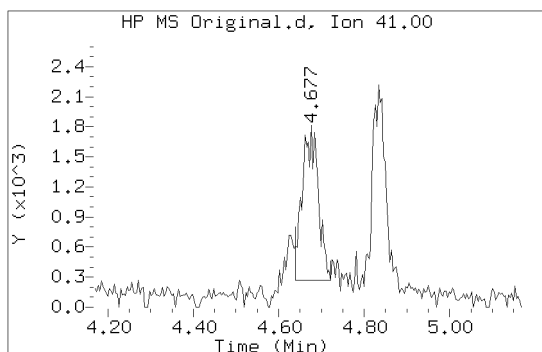
BEFORE

MASS
42
AREA
1728
HEIGHT
920
27-Dec-2022
16:03
linh



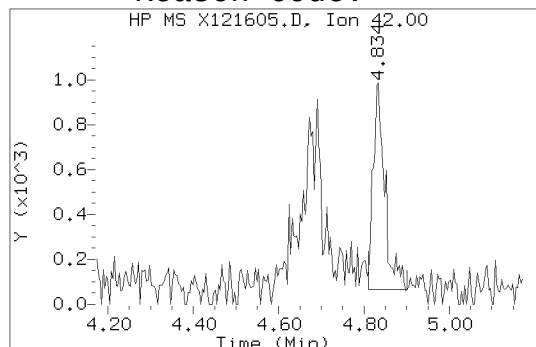
BEFORE

MASS
41
AREA
4067
HEIGHT
1547
27-Dec-2022
16:03
linh
pham



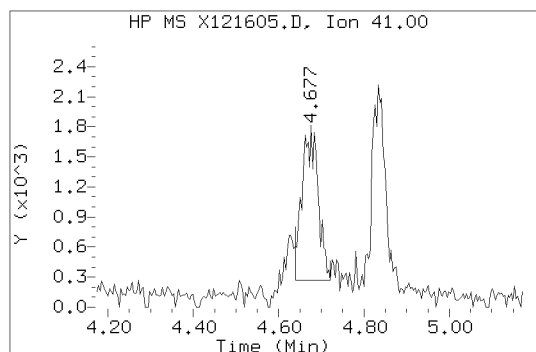
AFTER

MASS
42
AREA
1728
HEIGHT
920
27-Dec-2022
16:07
linh



AFTER

MASS
41
AREA
4067
HEIGHT
1547
27-Dec-2022
16:07
linh
pham

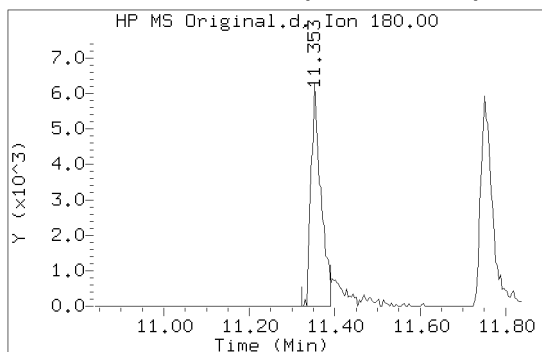


Reason Code:

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

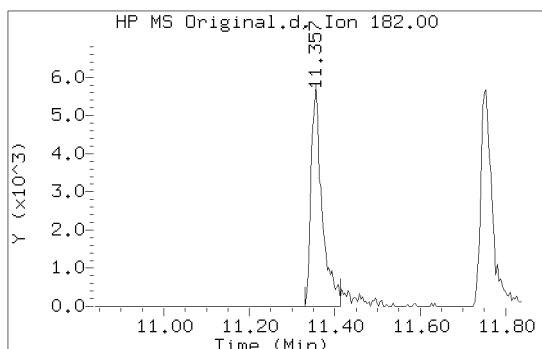
BEFORE

MASS
180
AREA
10131
HEIGHT
6269
27-Dec-2022
16:03
linh
pham



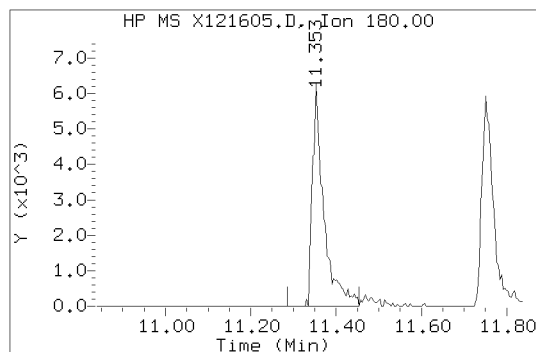
BEFORE

MASS
182
AREA
10317
HEIGHT
5807
27-Dec-2022
16:03
linh
pham



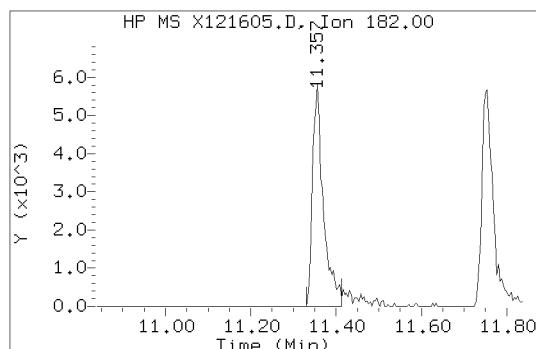
AFTER

MASS
180
AREA
11764
HEIGHT
6269
27-Dec-2022
16:07
linh
pham



AFTER

MASS
182
AREA
10317
HEIGHT
5807
27-Dec-2022
16:07
linh
pham



Reason Code:

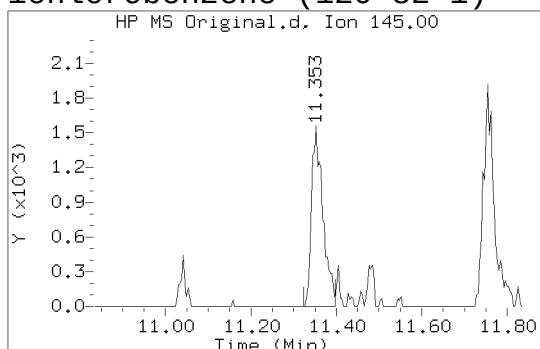


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

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

BEFORE

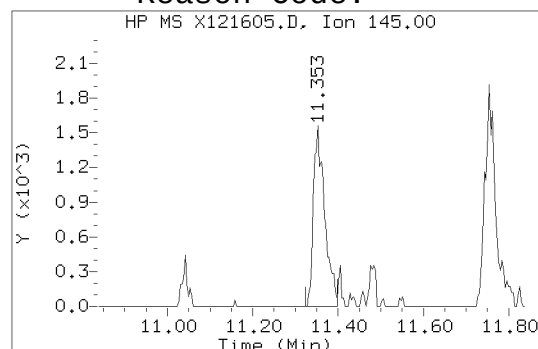
MASS
145
AREA
2887
HEIGHT
1565
27-Dec-2022
16:03
linh
pham



AFTER

MASS
145
AREA
2887
HEIGHT
1565
27-Dec-2022
16:07
linh
pham

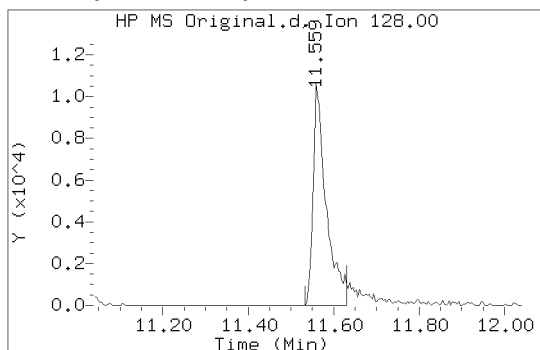
Reason Code:



Naphthalene (91-20-3)

BEFORE

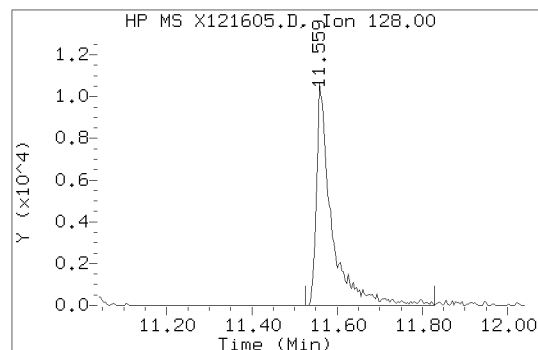
MASS
128
AREA
22581
HEIGHT
10616
27-Dec-2022
16:03
linh
pham



AFTER

MASS
128
AREA
26250
HEIGHT
10616
27-Dec-2022
16:07
linh
pham

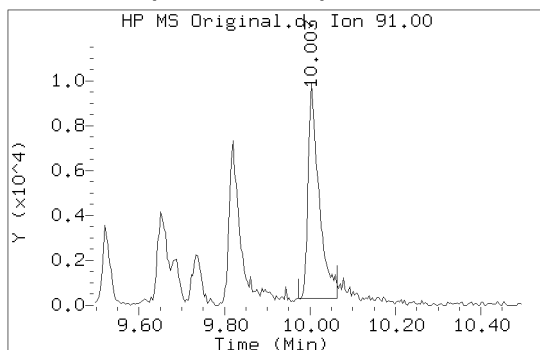
Reason Code:



n-Butylbenzene (104-51-8)

BEFORE

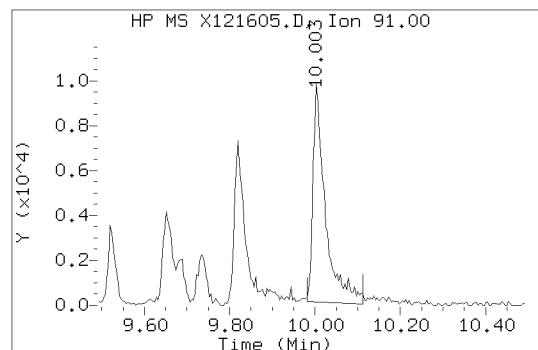
MASS
91
AREA
17181
HEIGHT
9558
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
19853
HEIGHT
9720
27-Dec-2022
16:07
linh
pham

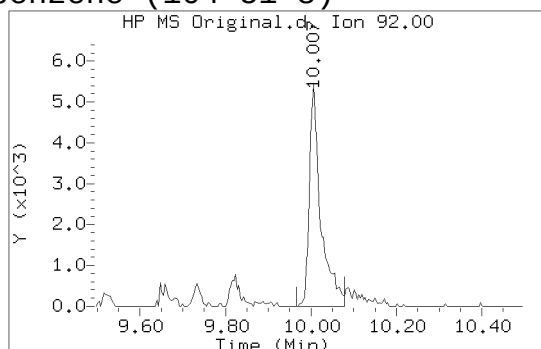
Reason Code:



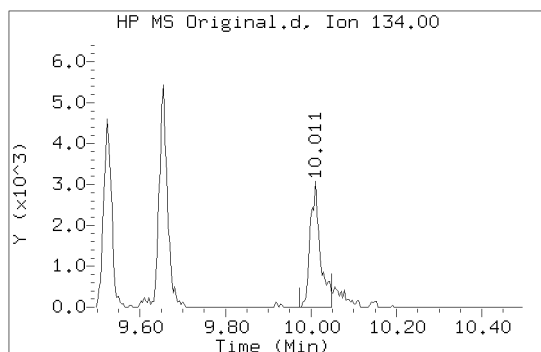
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

n-Butylbenzene (104-51-8)**BEFORE**

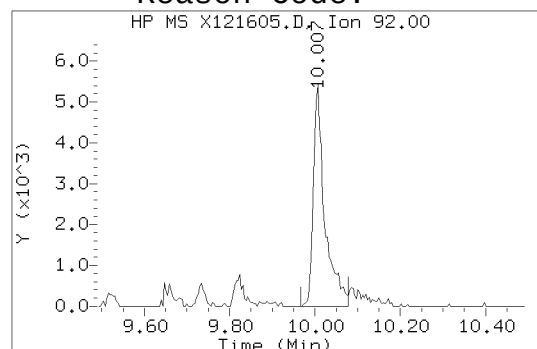
MASS
92
AREA
10185
HEIGHT
5422
27-Dec-2022
16:03
linh

**BEFORE**

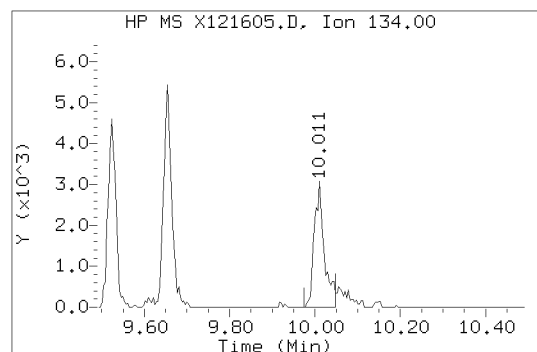
MASS
134
AREA
5059
HEIGHT
3076
27-Dec-2022
16:03
linh
pham

**AFTER**

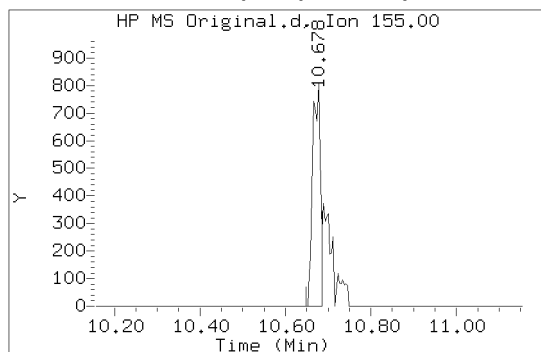
MASS
92
AREA
10185
HEIGHT
5422
27-Dec-2022
16:07
linh

**AFTER**

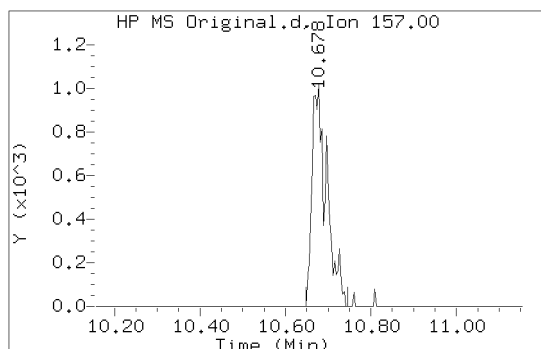
MASS
134
AREA
5059
HEIGHT
3076
27-Dec-2022
16:07
linh
pham

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

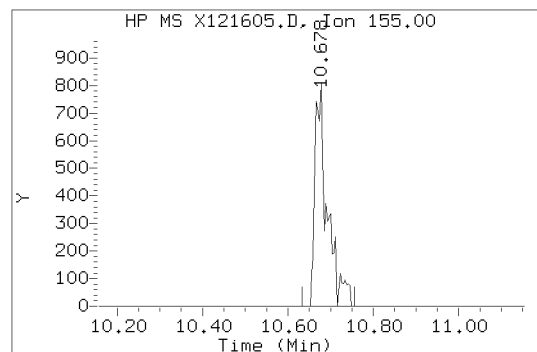
MASS
155
AREA
1026
HEIGHT
806
27-Dec-2022
16:03
linh
pham

**BEFORE**

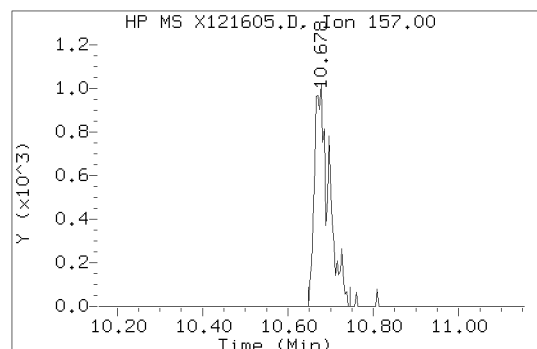
MASS
157
AREA
2422
HEIGHT
1016
27-Dec-2022
16:03
linh
pham

**AFTER**

MASS
155
AREA
1619
HEIGHT
806
27-Dec-2022
16:07
linh
pham

**AFTER**

MASS
157
AREA
2422
HEIGHT
1016
27-Dec-2022
16:07
linh
pham

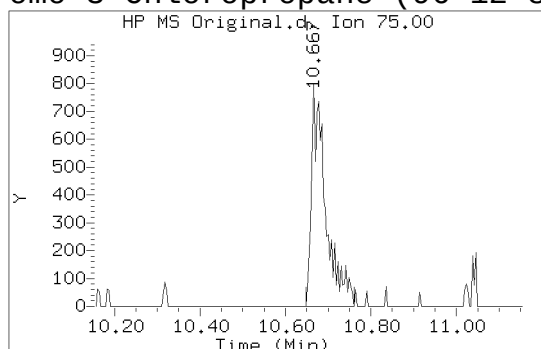


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121605.D
 Inj Date : 16-DEC-2022 13:02
 InstruID : voa6.i
 LabSampID : VSTD002

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

BEFORE

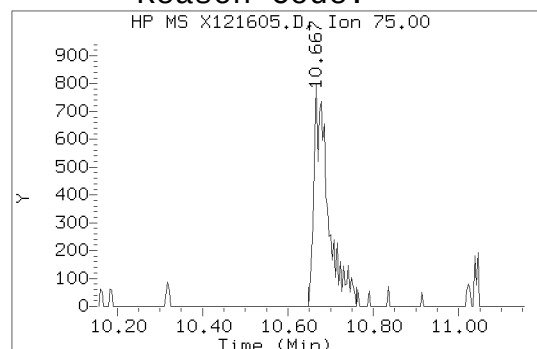
MASS
75
AREA
1843
HEIGHT
796
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
1843
HEIGHT
796
27-Dec-2022
16:07
linh
pham

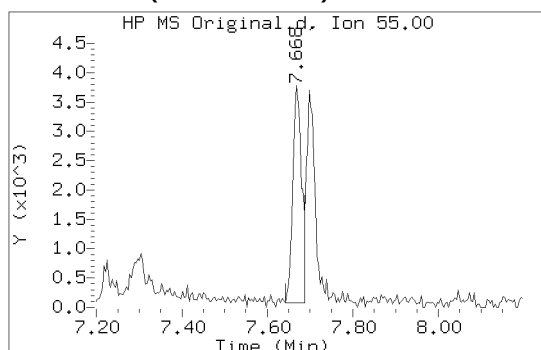
Reason Code:



1-Chlorohexane (544-10-5)

BEFORE

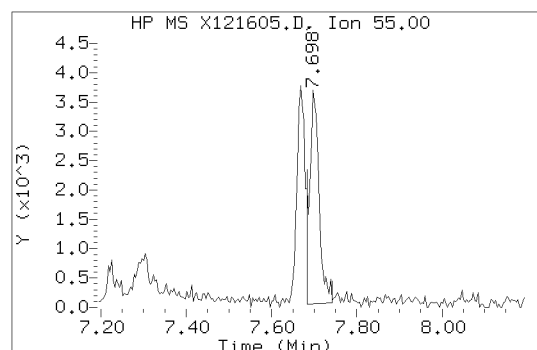
MASS
55
AREA
5357
HEIGHT
3703
27-Dec-2022
16:03
linh
pham



AFTER

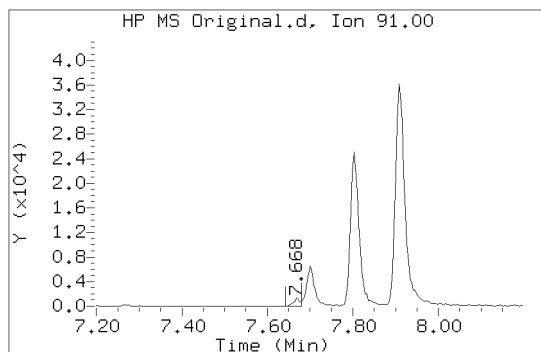
MASS
55
AREA
5855
HEIGHT
3647
27-Dec-2022
16:07
linh
pham

Reason Code:



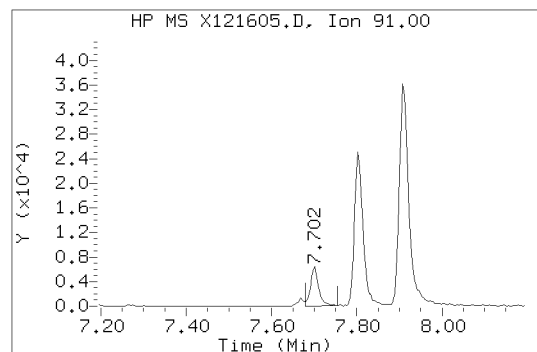
BEFORE

MASS
91
AREA
1356
HEIGHT
1324
27-Dec-2022
16:03
linh
pham



AFTER

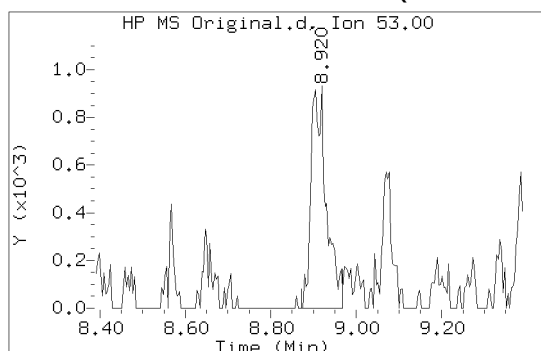
MASS
91
AREA
8682
HEIGHT
6440
27-Dec-2022
16:07
linh
pham



trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE

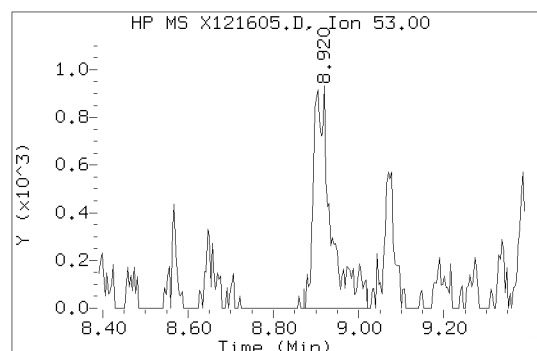
MASS
53
AREA
2313
HEIGHT
932
27-Dec-2022
16:03
linh
pham



AFTER

MASS
53
AREA
2690
HEIGHT
932
27-Dec-2022
16:07
linh
pham

Reason Code:

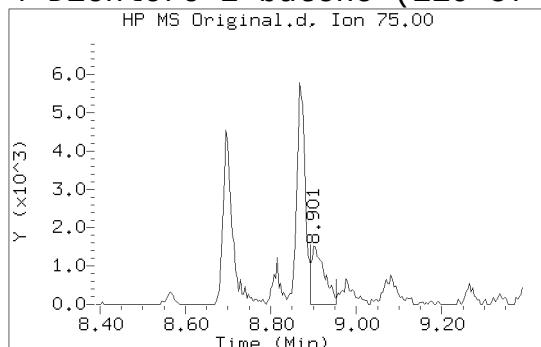


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121605.D
 Inj Date : 16-DEC-2022 13:02
 InstruID : voa6.i
 LabSampID : VSTD002

trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE

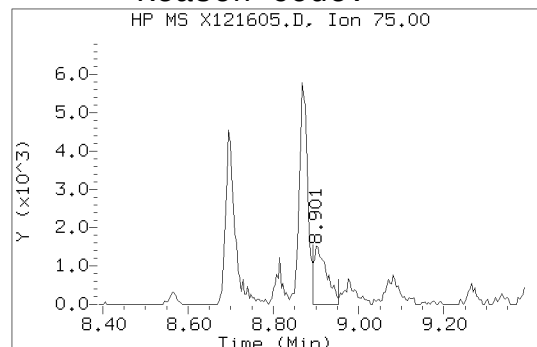
MASS
75
AREA
3228
HEIGHT
1526
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
3228
HEIGHT
1526
27-Dec-2022
16:07
linh
pham

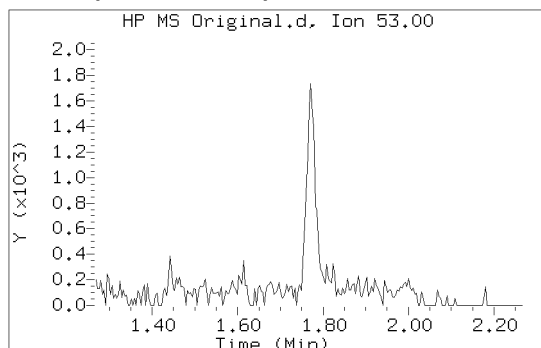
Reason Code:



Chloroprene (126-99-8)

BEFORE

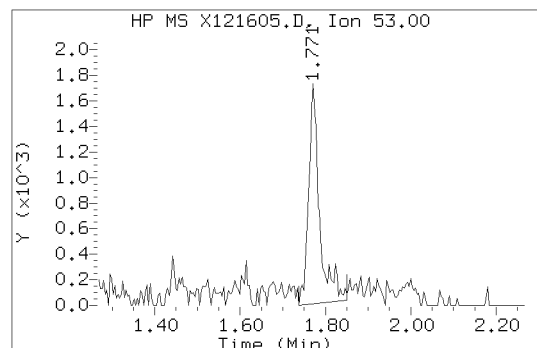
MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

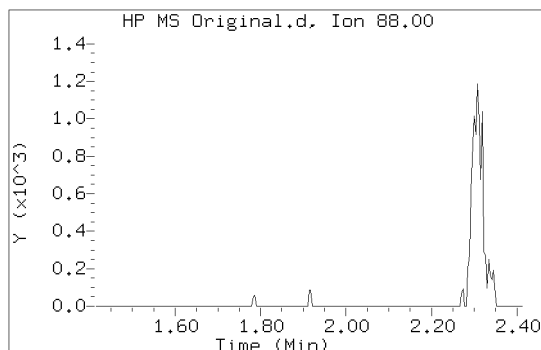
MASS
53
AREA
3126
HEIGHT
1722
27-Dec-2022
16:07
linh
pham

Reason Code:



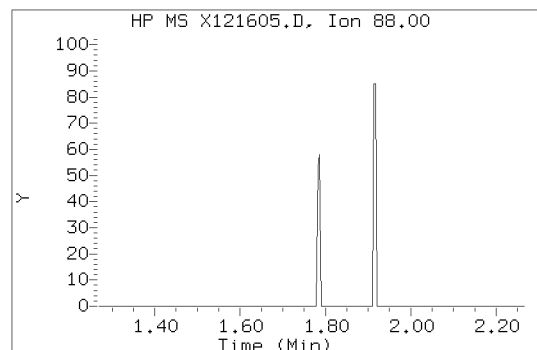
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

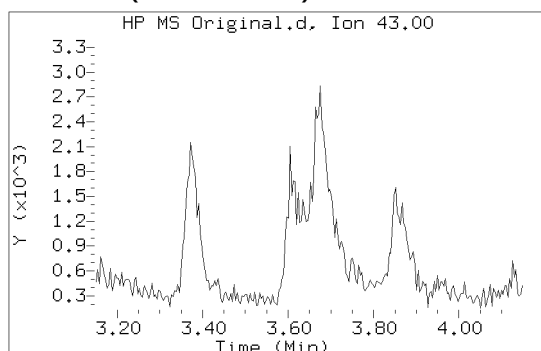
MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Ethyl Acetate (141-78-6)

BEFORE

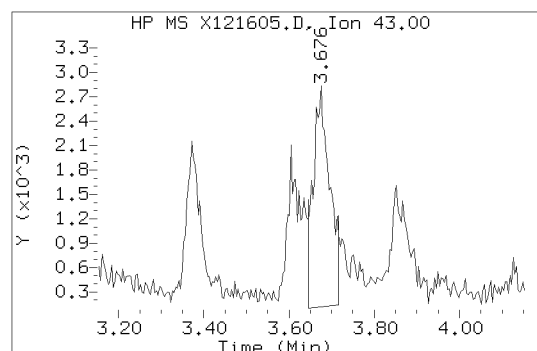
MASS
43
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
43
AREA
7422
HEIGHT
2716
27-Dec-2022
16:07
linh
pham

Reason Code:

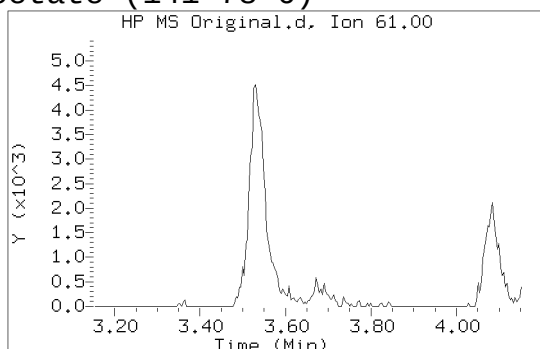


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

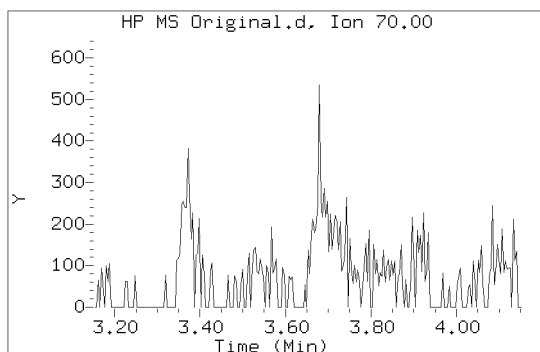
BEFORE

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh



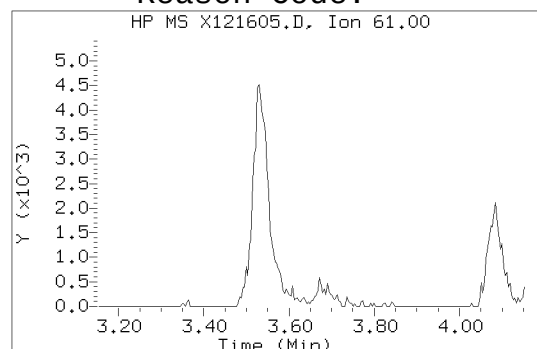
BEFORE

MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



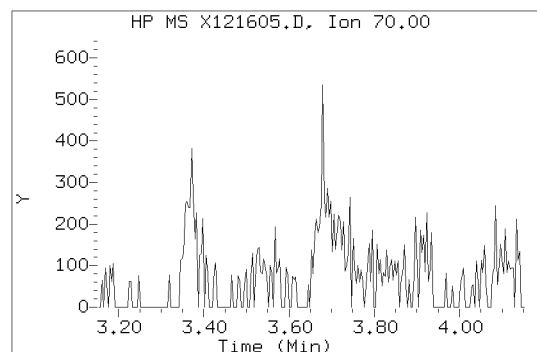
AFTER

MASS
61
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh



AFTER

MASS
70
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

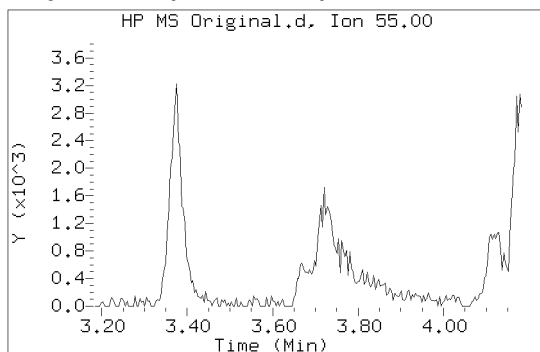


Reason Code:

Methyl Acrylate (96-33-3)

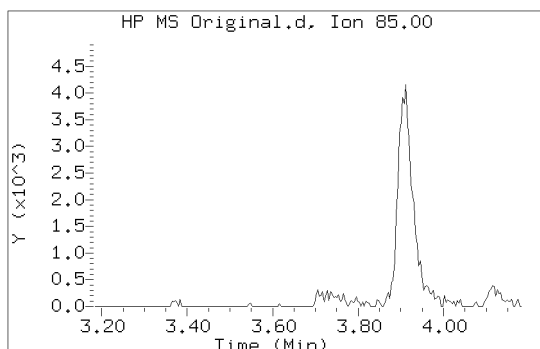
BEFORE

MASS
55
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



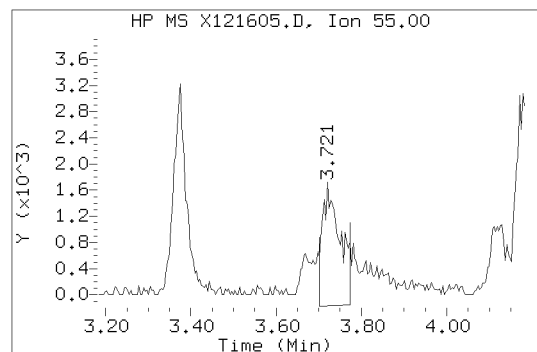
BEFORE

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



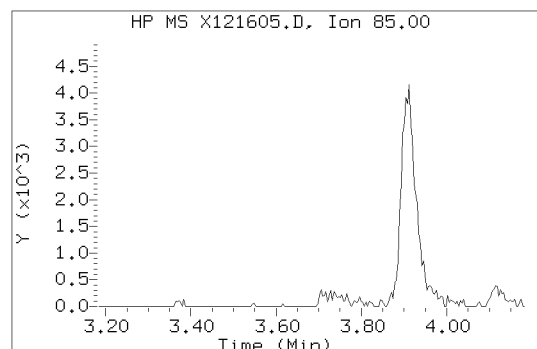
AFTER

MASS
55
AREA
5443
HEIGHT
1892
27-Dec-2022
16:07
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



Reason Code:

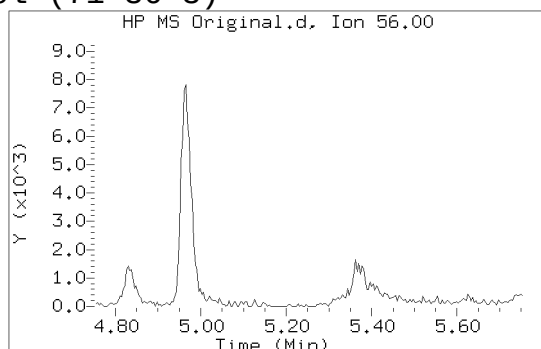


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

n-Butanol (71-36-3)

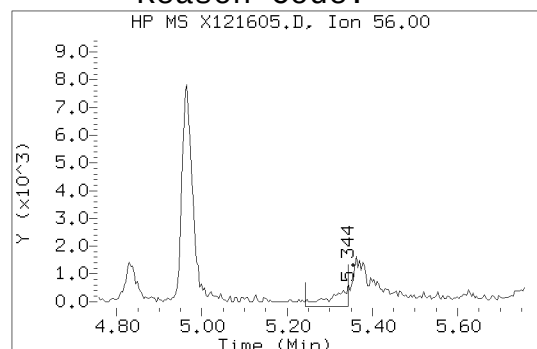
BEFORE

MASS
56
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh



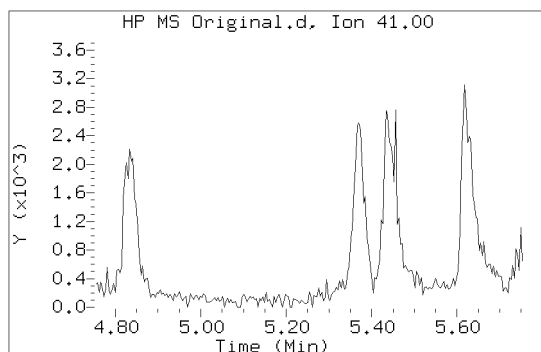
AFTER

MASS
56
AREA
2004
HEIGHT
808
27-Dec-2022
16:07
linh



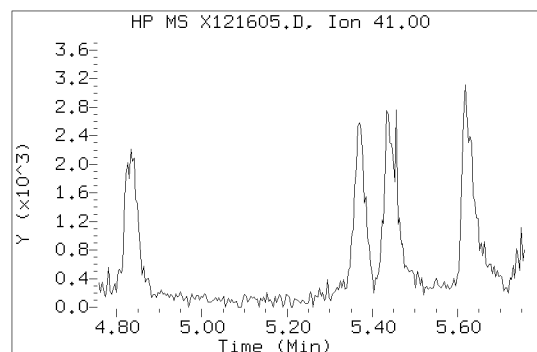
BEFORE

MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

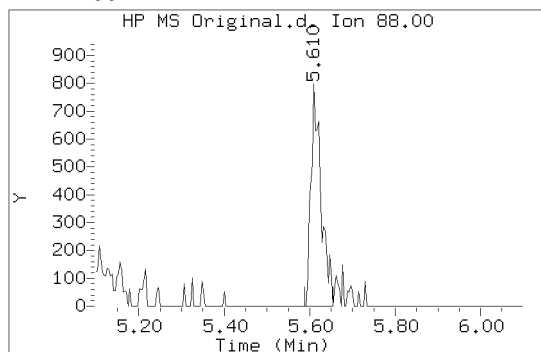
MASS
41
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham



1,4-Dioxane ()

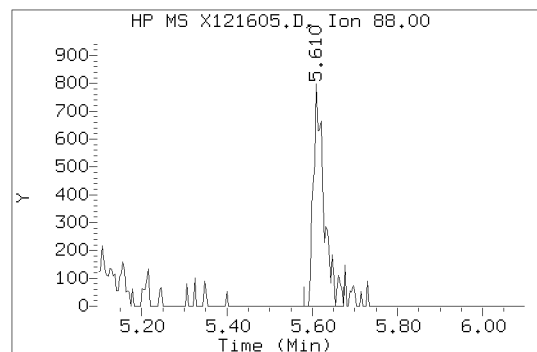
BEFORE

MASS
88
AREA
1335
HEIGHT
798
27-Dec-2022
16:03
linh
pham



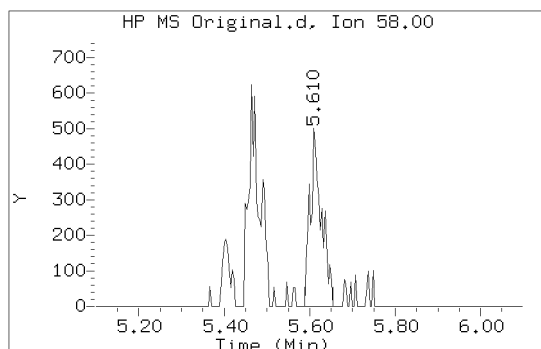
AFTER

MASS
88
AREA
1409
HEIGHT
798
27-Dec-2022
16:07
linh
pham



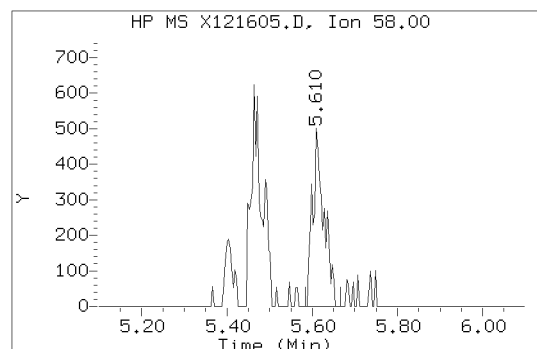
BEFORE

MASS
58
AREA
934
HEIGHT
501
27-Dec-2022
16:03
linh
pham



AFTER

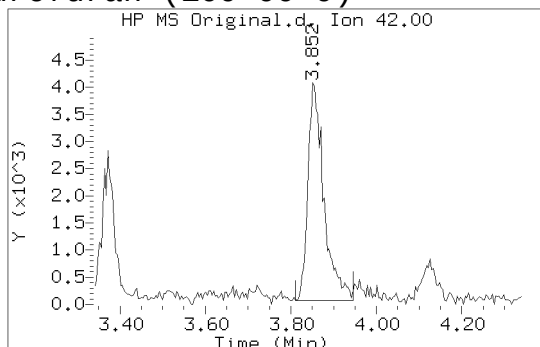
MASS
58
AREA
934
HEIGHT
501
27-Dec-2022
16:07
linh
pham



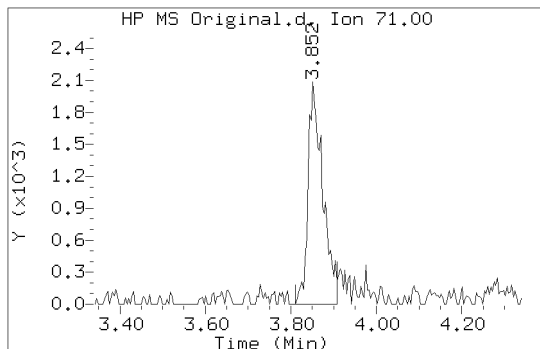
Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121605.D
Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)**BEFORE**

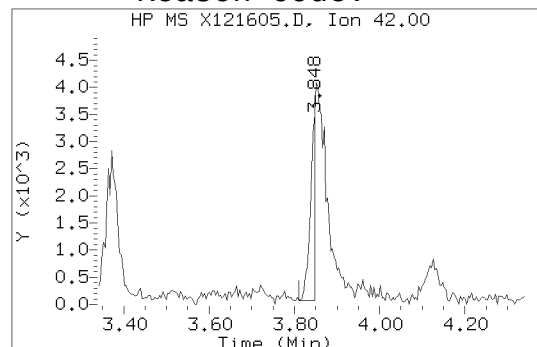
MASS
42
AREA
10469
HEIGHT
4012
27-Dec-2022
16:03
linh

**BEFORE**

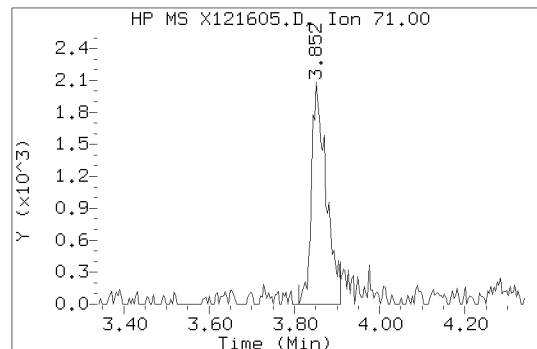
MASS
71
AREA
5020
HEIGHT
2086
27-Dec-2022
16:03
linh
pham

**Reason Code:****AFTER**

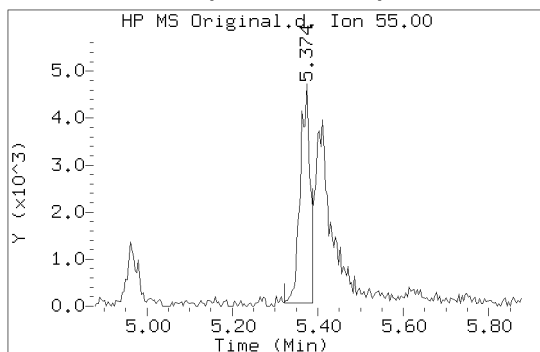
MASS
42
AREA
2867
HEIGHT
3419
27-Dec-2022
16:07
linh

**AFTER**

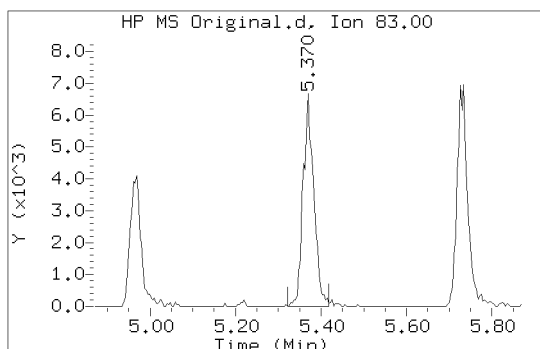
MASS
71
AREA
5020
HEIGHT
2086
27-Dec-2022
16:07
linh
pham

**Methylcyclohexane (108-87-2)****BEFORE**

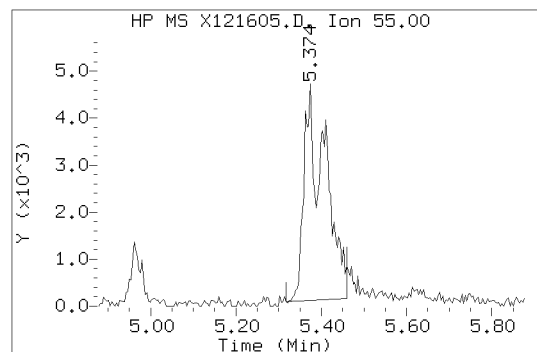
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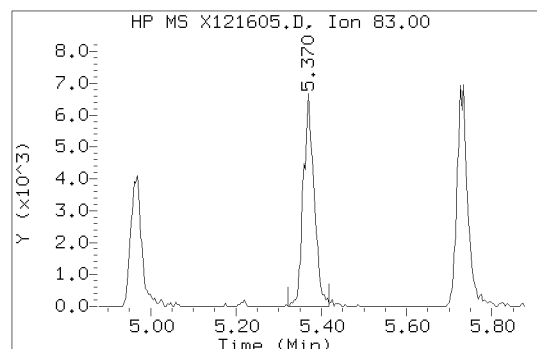
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16:03
linh
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**Reason Code:****AFTER**

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**AFTER**

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16:07
linh
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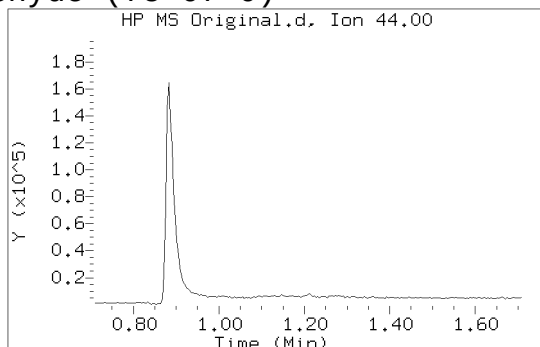


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Inj Date : 16-DEC-2022 13:02
InstruID : voa6.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

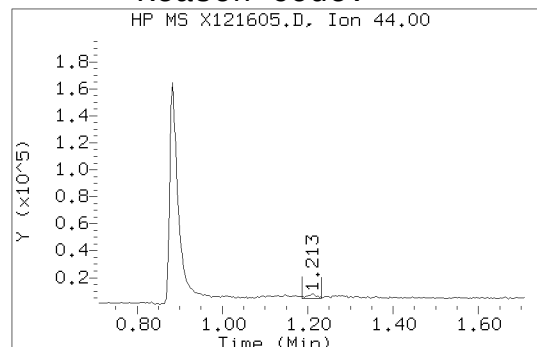
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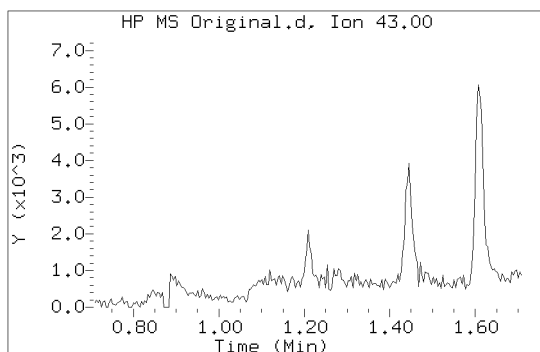
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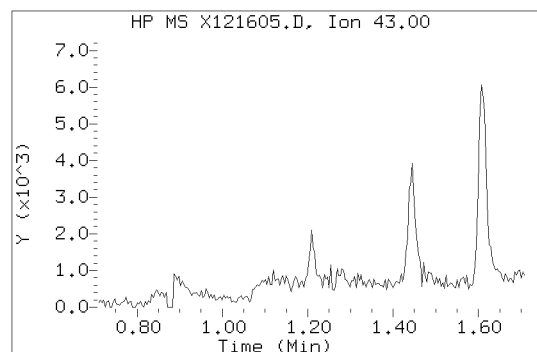
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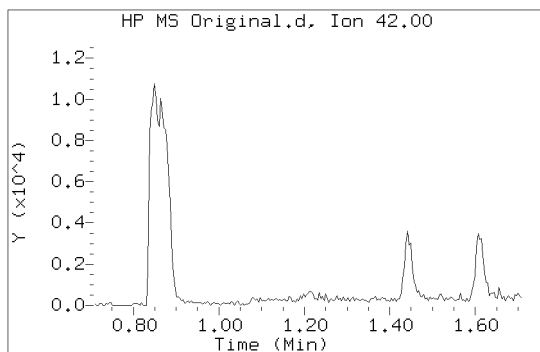
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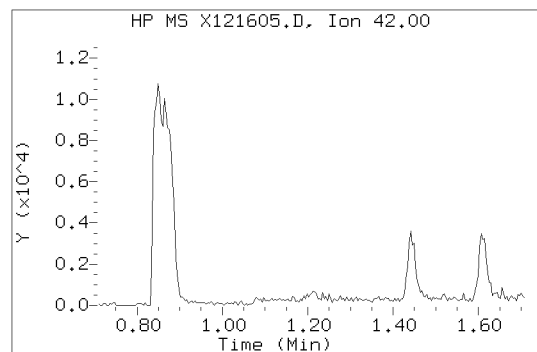
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AFTER

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HEIGHT
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27-Dec-2022
16:07
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
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 Inj Date : 16-DEC-2022 13:23
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD005;VSTD005;1;5;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 13:02 Cal File: X121605.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)	450664	50.0000		
135 1,4-Dioxane	88		5.602	5.602	(1.341)	4197	100.000	101.88(M)	
140 1,3-Butadiene	54		1.164	1.164	(0.279)	14283	5.00000	4.61	
25 Methacrylonitrile	41		3.840	3.840	(0.919)	15701	5.00000	4.92(M)	
12 Isobutyl Alcohol	43		4.680	4.680	(1.120)	51624	100.000	101.84	
13 Acetonitrile	39		2.198	2.198	(0.526)	19635	50.0000	47.87	
14 Allyl Chloride	41		2.198	2.198	(0.526)	37993	5.00000	4.86	
4 Propionitrile	54		3.660	3.660	(0.876)	23049	50.0000	50.12	
136 n-Hexane	57		2.772	2.772	(0.664)	14618	5.00000	4.50	
72 trans-1,4-Dichloro-2-butene	53		8.901	8.901	(1.161)	6648	5.00000	4.70(M)	
194 Acetaldehyde	44		1.209	1.209	(0.289)	6161	20.0000	0.80(M)	
23 Chloroprene	53		1.771	1.771	(0.424)	7154	5.00000	4.66(M)	
145 alpha-Methylstyrene	118		9.261	9.261	(0.958)	37831	5.00000	4.79	
200 Dimethyl Disulfide	94		6.198	6.198	(0.808)	40144	5.00000	4.53	
139 Diethyl ether	59		1.756	1.756	(0.420)	15119	5.00000	5.02	
130 Ethyl Acetate	43		3.660	3.660	(0.876)	18020	5.00000	5.12(M)	
40 Methyl Methacrylate	41		5.617	5.617	(1.345)	15119	5.00000	4.92	
49 Ethyl Methacrylate	69		6.715	6.715	(1.353)	13801	5.00000	4.27	
132 n-Butanol	56		5.287	5.287	(1.266)	4891	100.000	125.41(M)	
142 Tetrahydrofuran	42		3.848	3.848	(0.921)	7598	10.0000	10.82(M)	



150 Allyl alcohol	57	2.772	2.772 (0.664)	14618	100.000	83.50
166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	80329	5.00000	4.68

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.705	3.705	(0.887)	14950	5.00000	4.88(M)
162 Butyl acrylate	55	8.260	8.260	(1.077)	38320	5.00000	4.48
2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	15008	5.00000	5.11
3 Chloromethane	50	1.077	1.077	(0.258)	19623	5.00000	6.81
5 Vinyl Chloride	62	1.141	1.141	(0.273)	19002	5.00000	4.82
6 Bromomethane	94	1.336	1.336	(0.320)	15112	5.00000	6.66
7 Chloroethane	64	1.400	1.400	(0.335)	14167	5.00000	5.17
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	26620	5.00000	4.83
9 Acrolein	56	1.441	1.441	(0.345)	2699	10.0000	11.33
10 Acetone	43	1.973	1.973	(0.472)	17632	10.0000	13.91
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	16850	5.00000	4.92
15 Iodomethane	142	2.026	2.026	(0.485)	26708	10.0000	9.27
16 Acrylonitrile	53	2.551	2.551	(0.611)	11047	10.0000	9.52
17 Methylene Chloride	84	2.303	2.303	(0.551)	22932	5.00000	4.88(M)
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	56330	5.00000	5.03
19 Carbon Disulfide	76	2.067	2.067	(0.495)	85418	10.0000	9.54
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	19006	5.00000	4.96
21 Vinyl Acetate	43	3.000	3.000	(0.718)	101238	10.0000	10.30
22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	33810	5.00000	5.03
24 2-Butanone	43	3.600	3.600	(0.862)	11771	10.0000	11.53(H)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	27881	5.00000	4.88
27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	22734	5.00000	4.88
28 Chloroform	83	3.904	3.904	(0.935)	38156	5.00000	5.06
29 Bromochloromethane	128	3.799	3.799	(0.909)	13213	5.00000	5.18
\$ 30 Dibromofluoromethane	113	4.103	4.103	(0.982)	24255	5.00000	5.45
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	29017	5.00000	4.85
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	23845	5.00000	4.90(M)
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	28173	5.00000	5.01
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	24171	5.00000	4.65
\$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	24938	5.00000	5.70(M)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	685413	50.0000	
37 Benzene	78	4.511	4.511	(0.909)	81981	5.00000	5.00
38 Trichloroethene	130	5.208	5.208	(1.049)	22693	5.00000	4.88
39 Bromodichloromethane	83	5.729	5.729	(1.154)	29358	5.00000	4.77
41 2-Chloroethylvinyl ether	63	6.056	6.056	(1.220)	17700	10.0000	10.12
42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	21679	5.00000	4.97
44 Dibromomethane	93	5.557	5.557	(1.119)	14449	5.00000	4.88
45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	34912	10.0000	9.98
46 cis-1,3-Dichloropropene	75	6.161	6.161	(1.241)	35507	5.00000	4.92
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	654176	50.0000	
\$ 48 Toluene-d8	98	6.389	6.389	(0.833)	81640	5.00000	5.05
50 Toluene	91	6.449	6.449	(0.841)	89594	5.00000	4.95
51 trans-1,3-Dichloropropene	75	6.689	6.689	(1.347)	28399	5.00000	4.74(M)
52 2-Hexanone	43	7.094	7.094	(0.925)	24056	10.0000	10.11
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	18638	5.00000	5.13
54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	35759	5.00000	5.00
55 Dibromochloromethane	129	7.176	7.176	(0.936)	25357	5.00000	4.84
56 Tetrachloroethene	164	6.929	6.929	(0.904)	17219	5.00000	4.60
57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	23172	5.00000	5.10
58 1-Chlorohexane	55	7.698	7.698	(1.550)	15210	5.00000	4.59(MH)
59 Chlorobenzene	112	7.694	7.694	(1.003)	62744	5.00000	4.89
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	22632	5.00000	4.74



61 Ethylbenzene	106	7.802	7.802 (1.018)	29550	5.00000	4.89
62 m,p-Xylenes	106	7.907	7.907 (1.031)	73283	10.0000	9.40



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.245	8.245	(1.075)	37189	5.00000	4.83
64 Styrene	104	8.267	8.267	(1.078)	62411	5.00000	4.84
66 Bromoform	173	8.414	8.414	(1.097)	16801	5.00000	4.63
67 Isopropylbenzene	105	8.563	8.563	(1.117)	85440	5.00000	4.86
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	29807	5.00000	5.24
\$ 69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	32501	5.00000	5.43
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356340	50.0000	
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	20685	5.00000	5.21(M)
73 n-Propylbenzene	91	8.916	8.916	(0.923)	97603	5.00000	4.94
74 Bromobenzene	156	8.811	8.811	(0.912)	28887	5.00000	4.94
75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	72501	5.00000	4.97
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	65973	5.00000	5.09
77 4-Chlorotoluene	91	9.077	9.077	(0.939)	75073	5.00000	5.08
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	59375	5.00000	4.97
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	75723	5.00000	4.93
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	77577	5.00000	4.88
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	69666	5.00000	4.89
83 1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	49954	5.00000	5.14
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	52655	5.00000	4.97
86 Benzyl Chloride	91	9.816	9.816	(1.280)	35254	5.00000	5.95
87 n-Butylbenzene	91	9.999	9.999	(1.035)	54831	5.00000	5.63
88 1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	50895	5.00000	5.09
89 1,2-Dibromo-3-Chloropropane	155	10.670	10.670	(1.104)	4911	5.00000	5.49
90 1,2,4-Trichlorobenzene	180	11.345	11.345	(1.174)	31873	5.00000	5.05
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	13454	5.00000	4.81
92 Naphthalene	128	11.551	11.551	(1.196)	72748	5.00000	5.06
93 1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	30274	5.00000	5.01
M 94 1,2-Dichloroethylene (total)	96				41740	10.0000	
M 95 Xylenes (total)	106				110472	15.0000	
141 Cyclohexane	56	4.118	4.118	(0.986)	19859	5.00000	5.52(H)
138 Freon TF	101	1.913	1.913	(0.458)	14845	5.00000	4.48
147 Methylcyclohexane	55	5.388	5.388	(1.085)	38650	5.00000	4.60(M)
146 Methyl Acetate	43	2.236	2.236	(0.535)	8968	5.00000	4.42
148 Tert-Butyl alcohol	59	2.431	2.431	(0.582)	30525	100.000	97.81
149 Isopropyl Alcohol	45	2.097	2.097	(0.502)	16518	100.000	101.35(T)

QC Flag Legend

T - Target compound detected outside RT window.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.



Data File: \\NAHSTMS005\Target\chem\voa6.i\X221216.b\X121606.D

Date: 16-DEC-2022 13:23

Client ID: VSTD005

Sample Info: VSTD005\VSTD005\1;5;

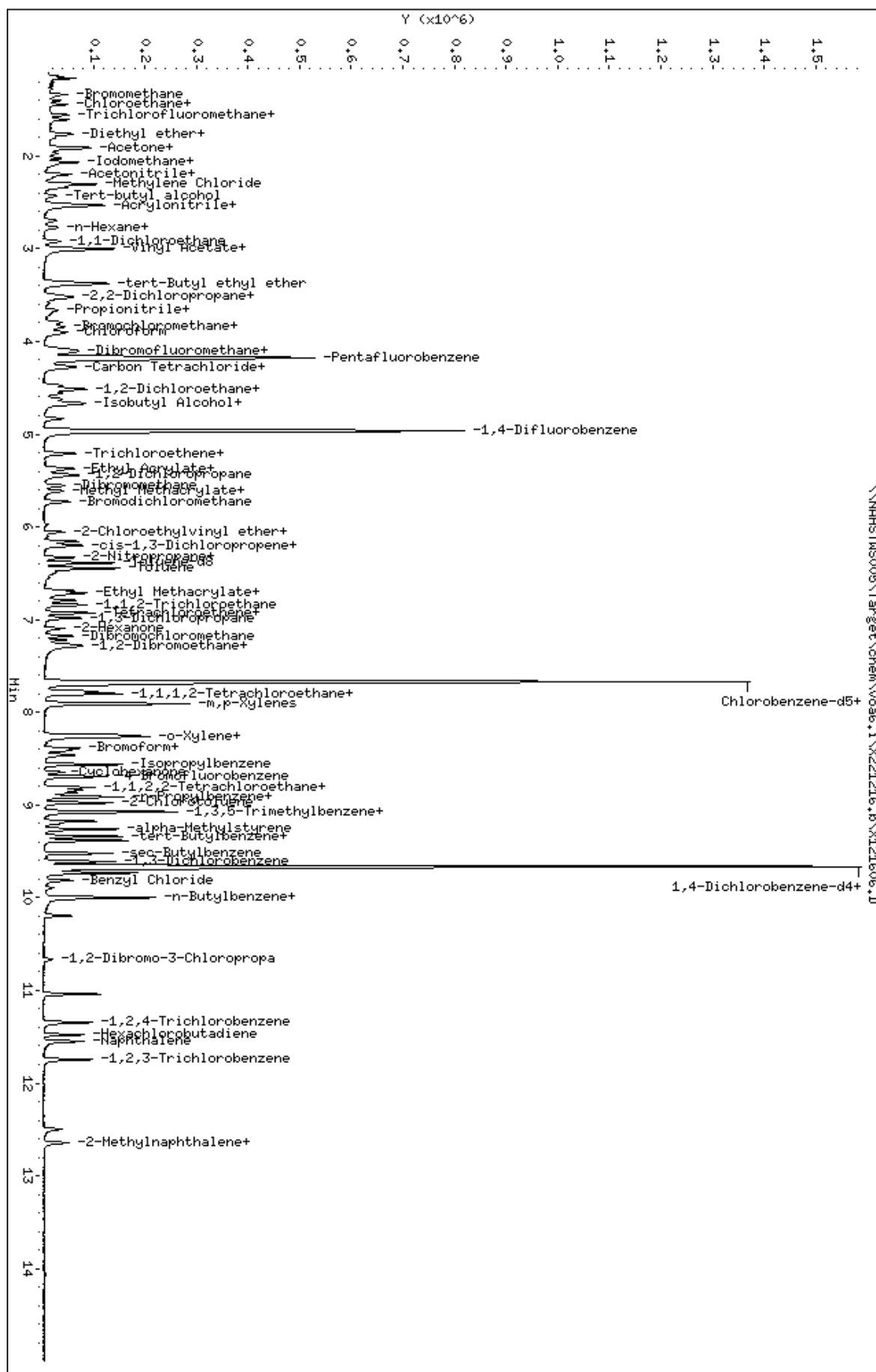
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Instrument: voa6.i

Operator: PC

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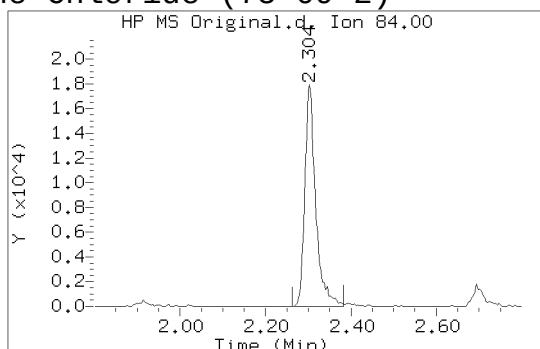


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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methylene Chloride (75-09-2)

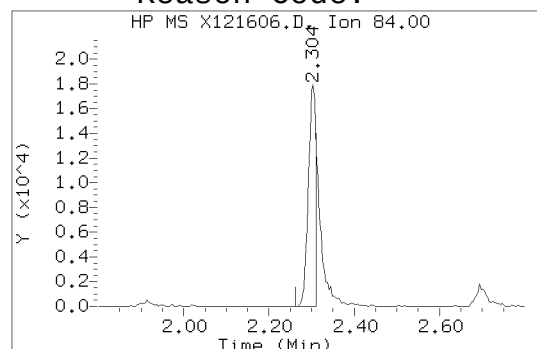
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HEIGHT
17936
27-Dec-2022
16:03
linh
pham



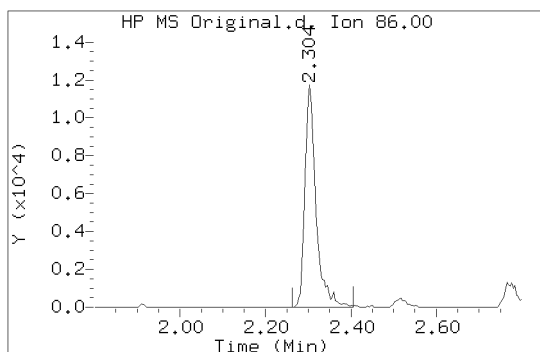
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16:07
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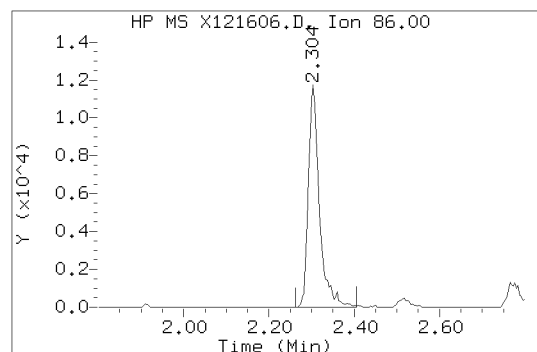
BEFORE

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HEIGHT
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27-Dec-2022
16:03
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pham



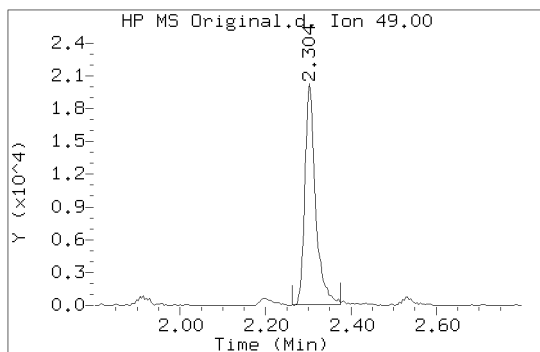
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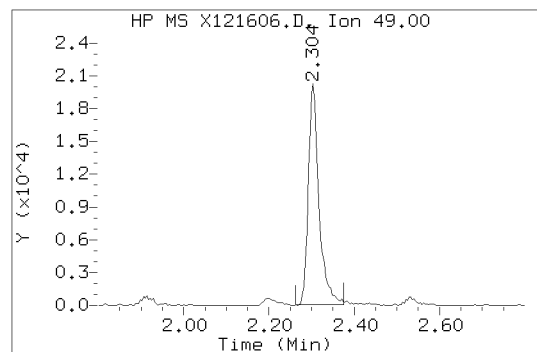
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AFTER

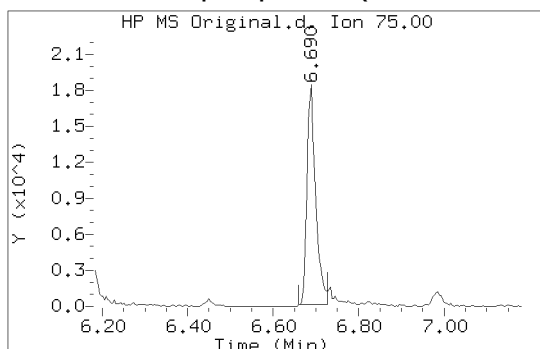
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HEIGHT
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pham



trans-1,3-Dichloropropene (10061-02-6)

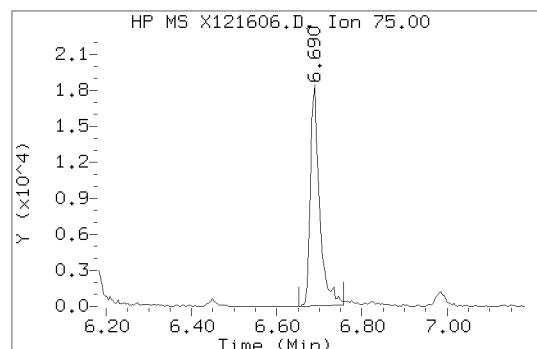
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AFTER

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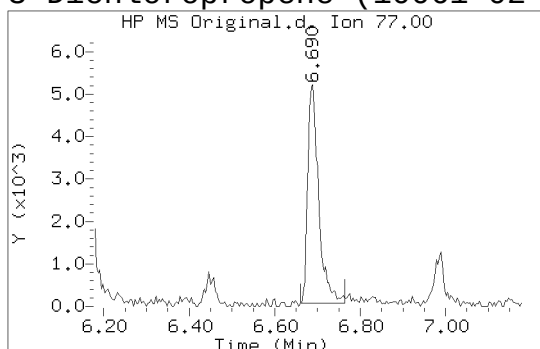


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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

trans-1,3-Dichloropropene (10061-02-6)

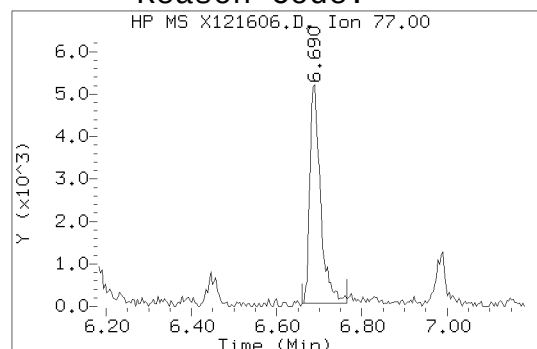
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27-Dec-2022
16:03
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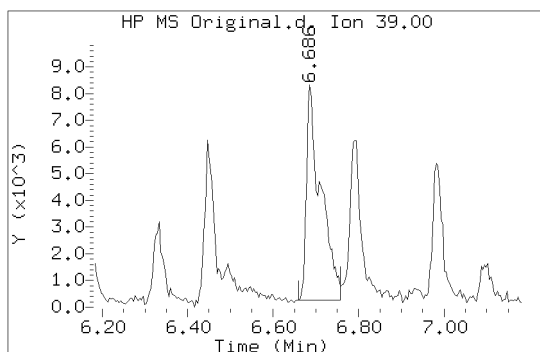
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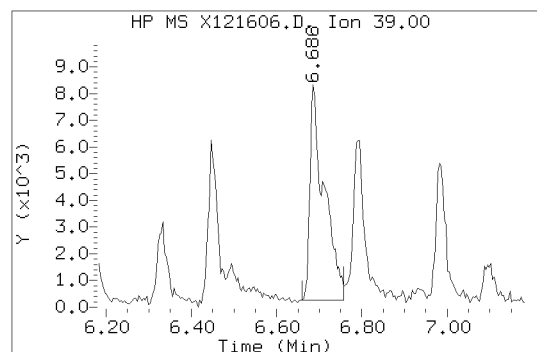
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AFTER

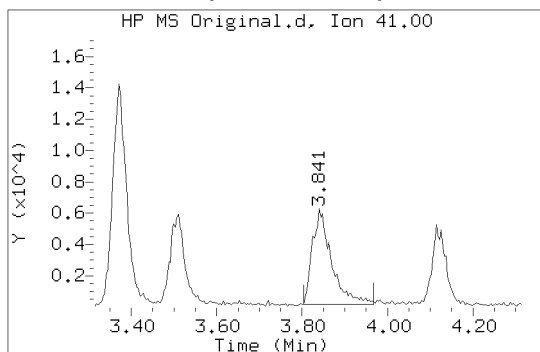
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HEIGHT
8065
27-Dec-2022
16:07
linh
pham



Methacrylonitrile (126-98-7)

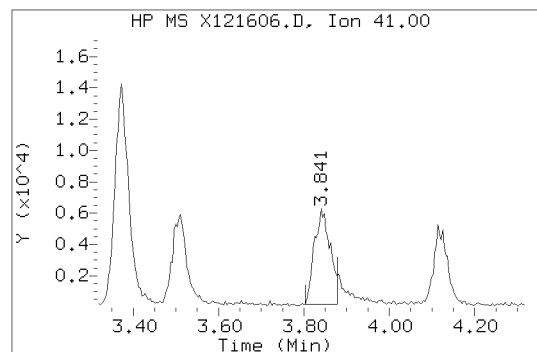
BEFORE

MASS
41
AREA
18790
HEIGHT
6109
27-Dec-2022
16:03
linh
pham



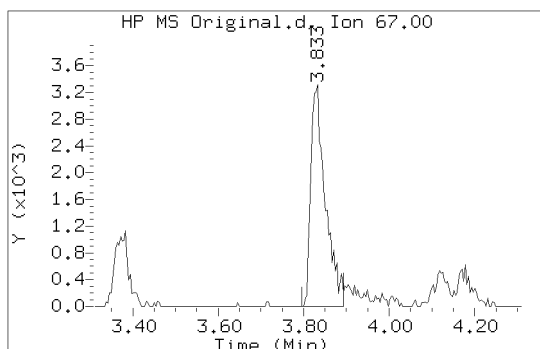
AFTER

MASS
41
AREA
15701
HEIGHT
6109
27-Dec-2022
16:07
linh
pham



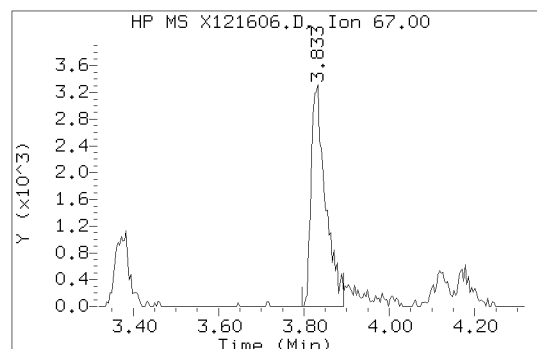
BEFORE

MASS
67
AREA
7866
HEIGHT
3315
27-Dec-2022
16:03
linh
pham



AFTER

MASS
67
AREA
7866
HEIGHT
3315
27-Dec-2022
16:07
linh
pham

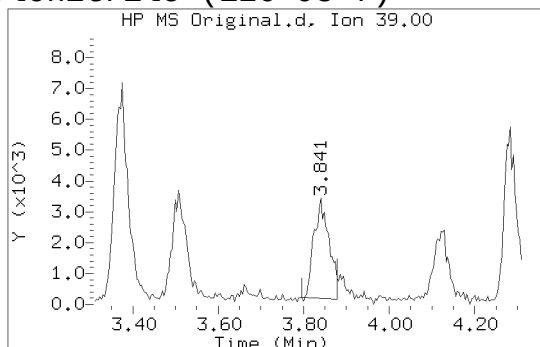


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methacrylonitrile (126-98-7)

BEFORE

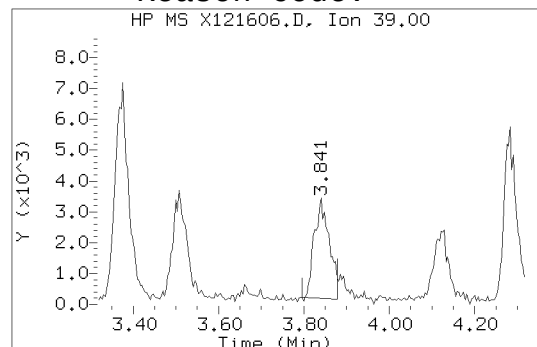
MASS
39
AREA
7951
HEIGHT
3252
27-Dec-2022
16:03
linh
pham



AFTER

MASS
39
AREA
7951
HEIGHT
3252
27-Dec-2022
16:07
linh
pham

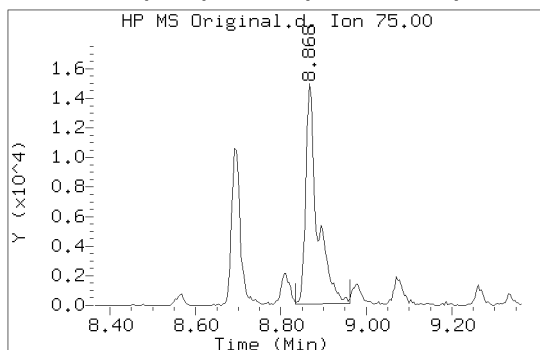
Reason Code:



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

BEFORE

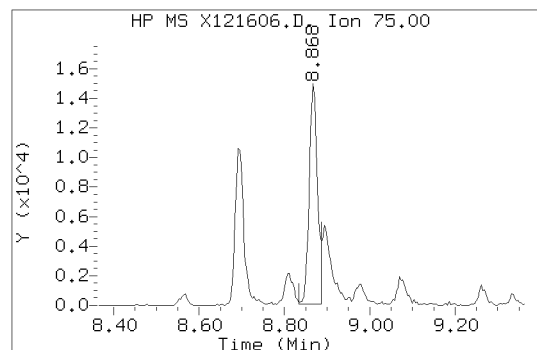
MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:03
linh
pham



AFTER

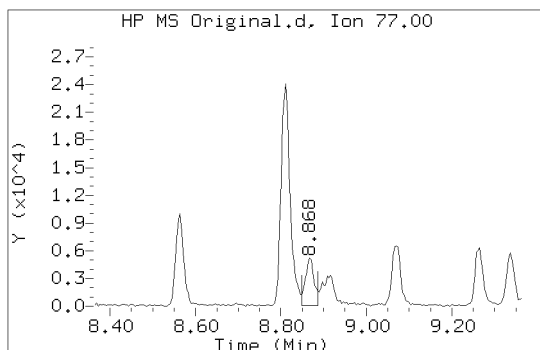
MASS
75
AREA
20685
HEIGHT
14911
27-Dec-2022
16:07
linh
pham

Reason Code:



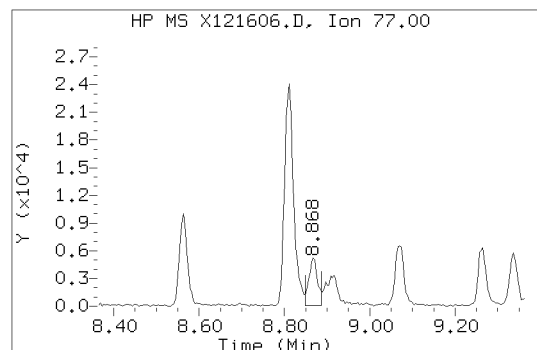
BEFORE

MASS
77
AREA
7524
HEIGHT
5143
27-Dec-2022
16:03
linh
pham



AFTER

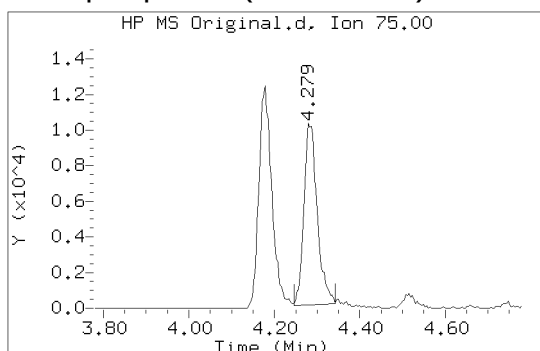
MASS
77
AREA
7524
HEIGHT
5143
27-Dec-2022
16:07
linh
pham



1,1-Dichloropropene (563-58-6)

BEFORE

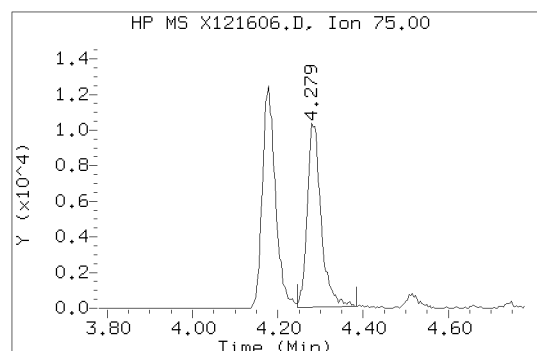
MASS
75
AREA
22411
HEIGHT
10201
27-Dec-2022
16:03
linh
pham



AFTER

MASS
75
AREA
23845
HEIGHT
10354
27-Dec-2022
16:07
linh
pham

Reason Code:

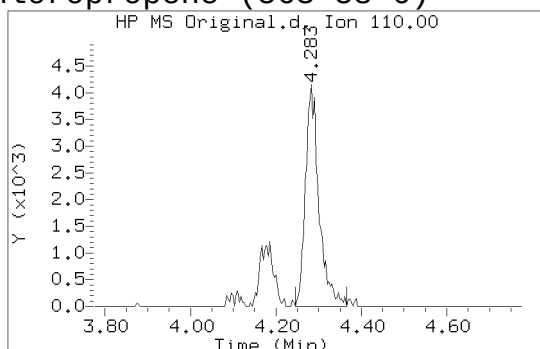


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,1-Dichloropropene (563-58-6)

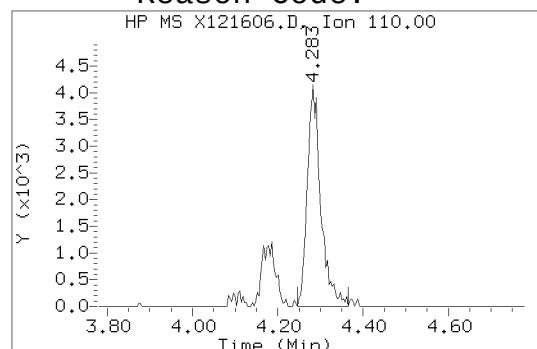
BEFORE

MASS
110
AREA
9244
HEIGHT
4151
27-Dec-2022
16:03
linh



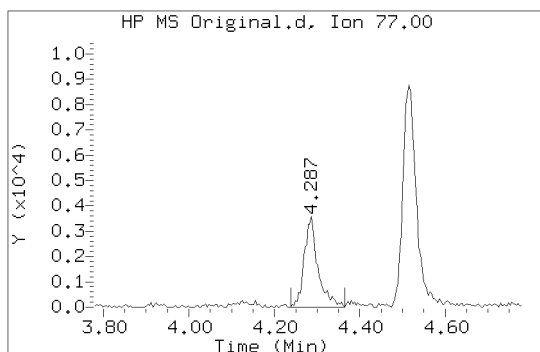
AFTER

MASS
110
AREA
9244
HEIGHT
4151
27-Dec-2022
16:07
linh



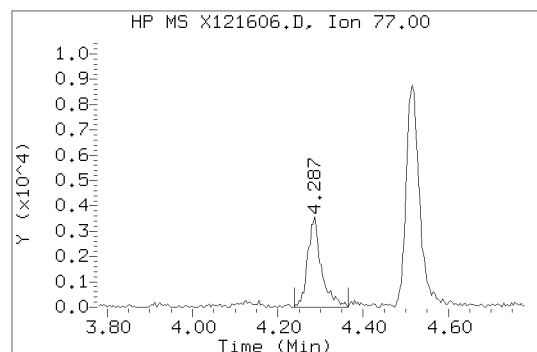
BEFORE

MASS
77
AREA
8083
HEIGHT
3567
27-Dec-2022
16:03
linh
pham



AFTER

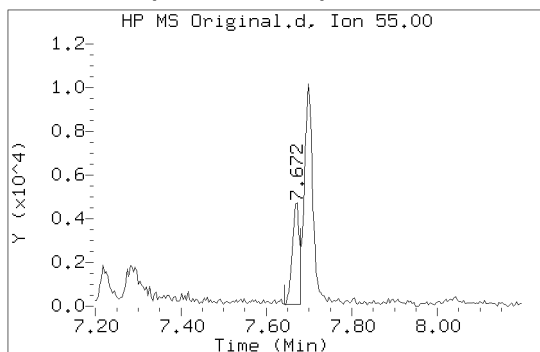
MASS
77
AREA
8083
HEIGHT
3567
27-Dec-2022
16:07
linh
pham



1-Chlorohexane (544-10-5)

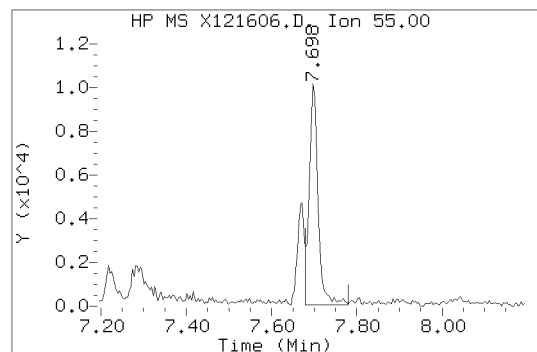
BEFORE

MASS
55
AREA
5371
HEIGHT
4660
27-Dec-2022
16:03
linh
pham



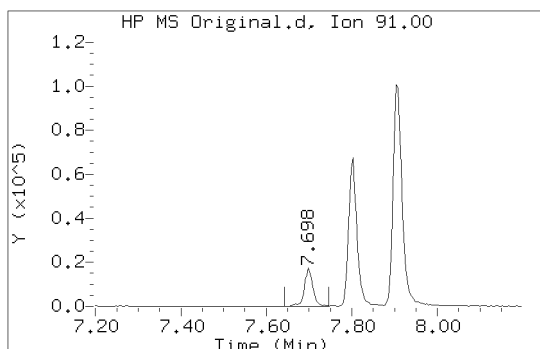
AFTER

MASS
55
AREA
15210
HEIGHT
10126
27-Dec-2022
16:07
linh
pham



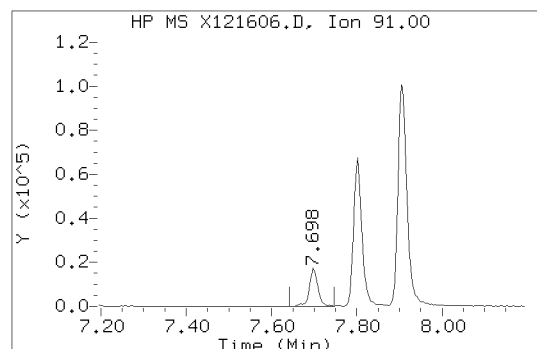
BEFORE

MASS
91
AREA
24578
HEIGHT
17336
27-Dec-2022
16:03
linh
pham



AFTER

MASS
91
AREA
24578
HEIGHT
17336
27-Dec-2022
16:07
linh
pham

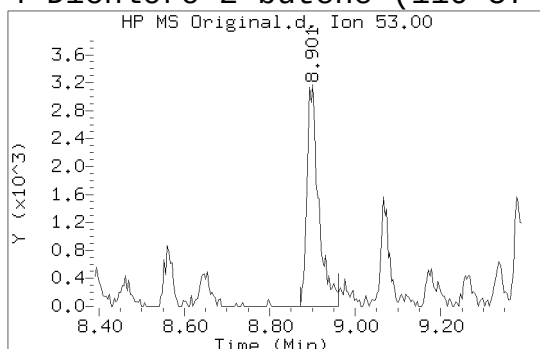


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

trans-1,4-Dichloro-2-butene (110-57-6)

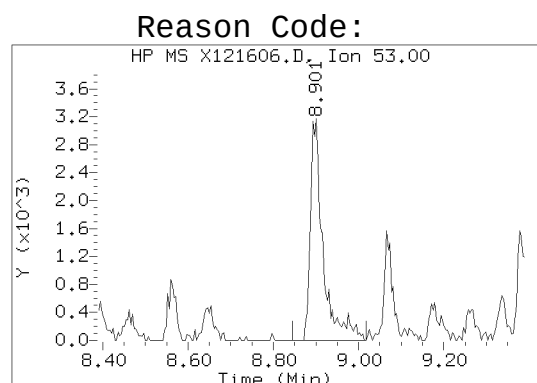
BEFORE

MASS
53
AREA
6122
HEIGHT
3172
27-Dec-2022
16:03
linh



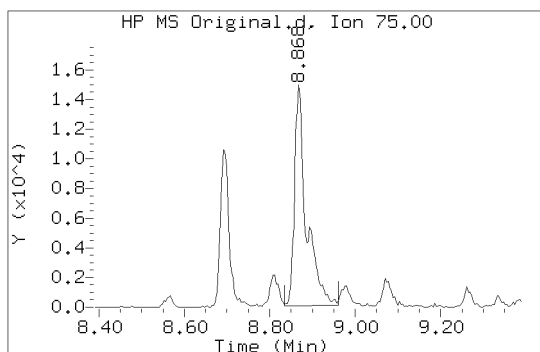
AFTER

MASS
53
AREA
6648
HEIGHT
3172
27-Dec-2022
16:07
linh



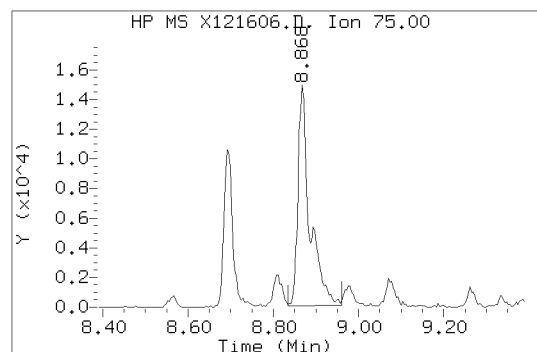
BEFORE

MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:03
linh
pham



AFTER

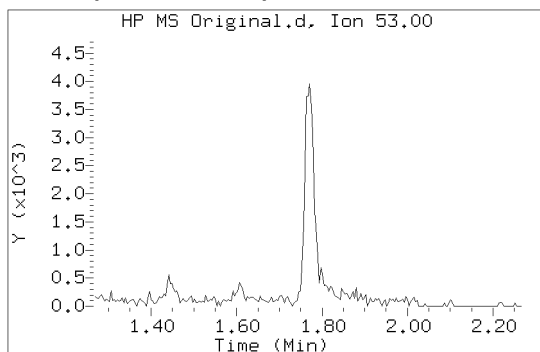
MASS
75
AREA
28905
HEIGHT
14911
27-Dec-2022
16:07
linh
pham



Chloroprene (126-99-8)

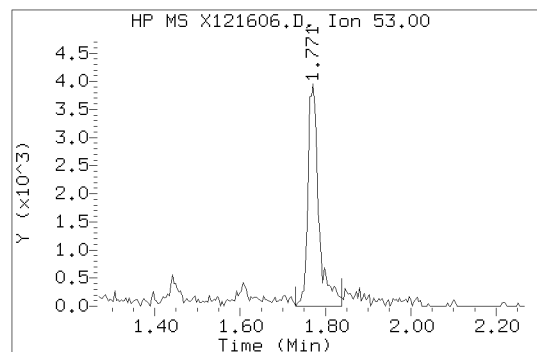
BEFORE

MASS
53
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



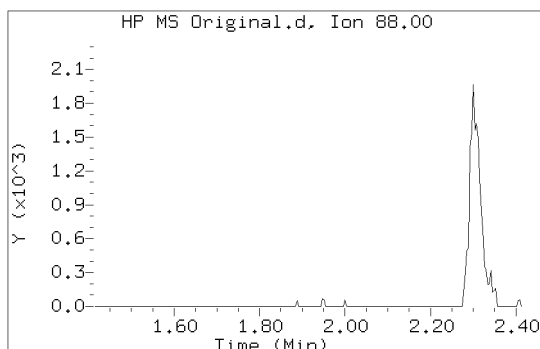
AFTER

MASS
53
AREA
7154
HEIGHT
3955
27-Dec-2022
16:07
linh
pham



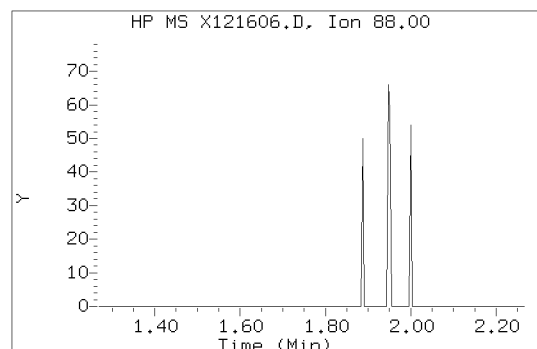
BEFORE

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Dec-2022
16:07
linh
pham

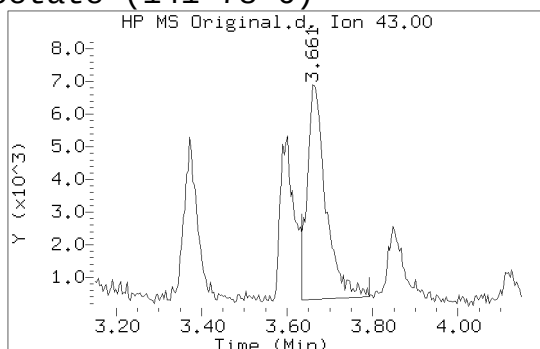


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

BEFORE

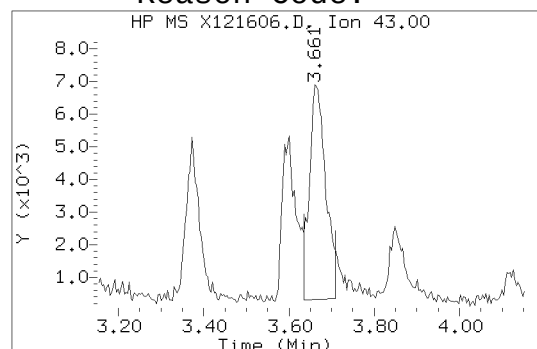
MASS
43
AREA
20113
HEIGHT
6576
27-Dec-2022
16:03
linh



AFTER

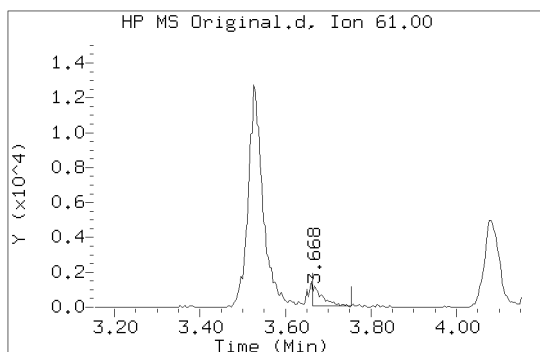
MASS
43
AREA
18020
HEIGHT
6576
27-Dec-2022
16:07
linh

Reason Code:



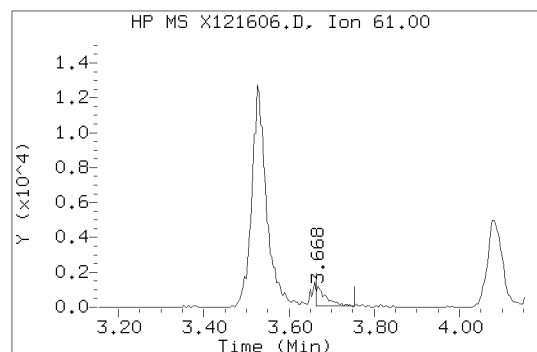
BEFORE

MASS
61
AREA
1766
HEIGHT
1155
27-Dec-2022
16:03
linh
pham



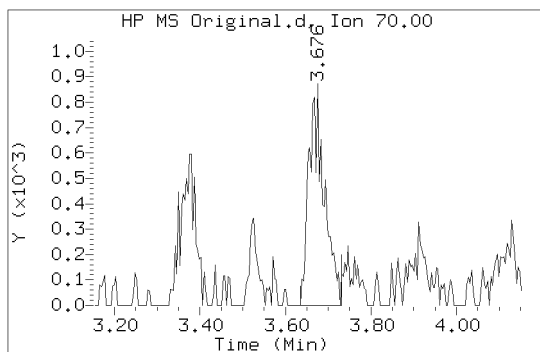
AFTER

MASS
61
AREA
1766
HEIGHT
1155
27-Dec-2022
16:07
linh
pham



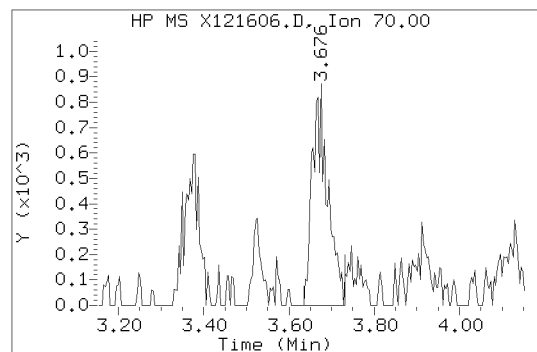
BEFORE

MASS
70
AREA
2205
HEIGHT
873
27-Dec-2022
16:03
linh
pham



AFTER

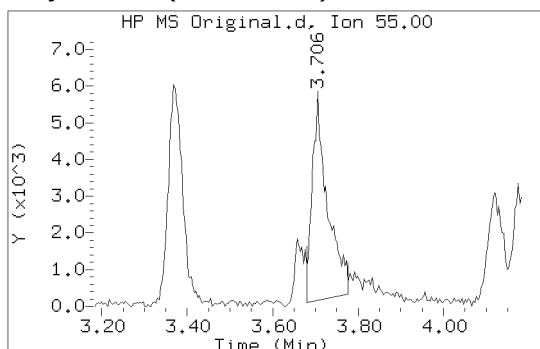
MASS
70
AREA
2205
HEIGHT
873
27-Dec-2022
16:07
linh
pham



Methyl Acrylate (96-33-3)

BEFORE

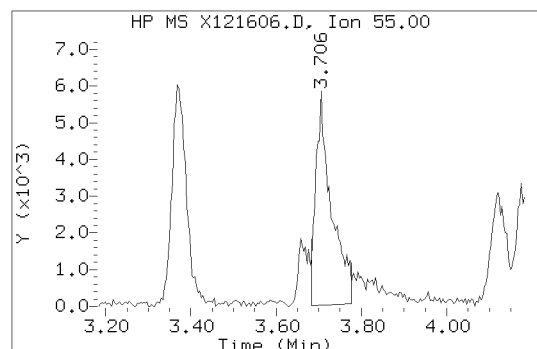
MASS
55
AREA
14157
HEIGHT
5696
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
14950
HEIGHT
5831
27-Dec-2022
16:07
linh
pham

Reason Code:

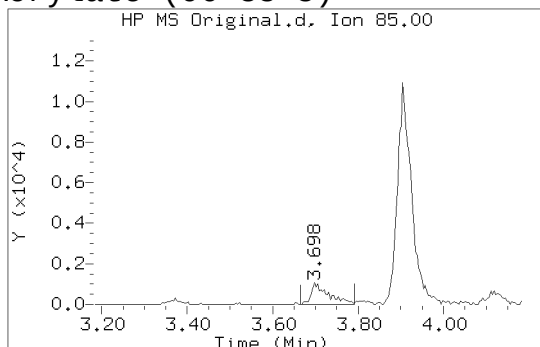


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

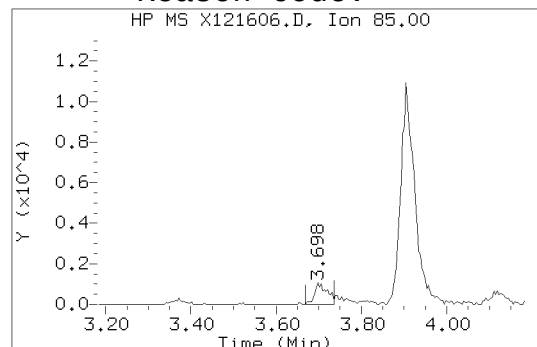
BEFORE

MASS
85
AREA
2934
HEIGHT
1073
27-Dec-2022
16:03
linh
pham



AFTER

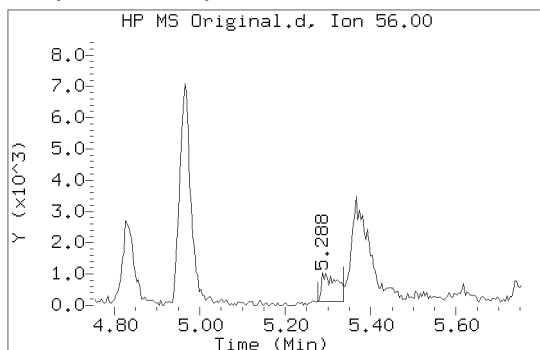
MASS
85
AREA
2159
HEIGHT
1073
27-Dec-2022
16:07
linh
pham



n-Butanol (71-36-3)

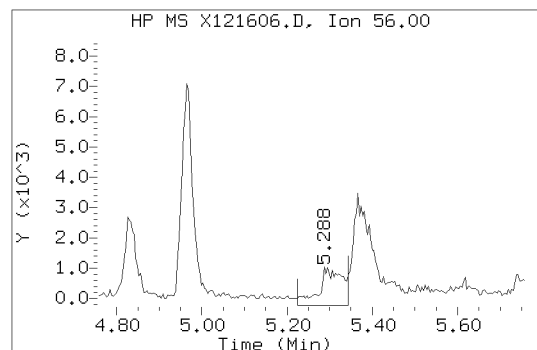
BEFORE

MASS
56
AREA
2243
HEIGHT
922
27-Dec-2022
16:03
linh
pham



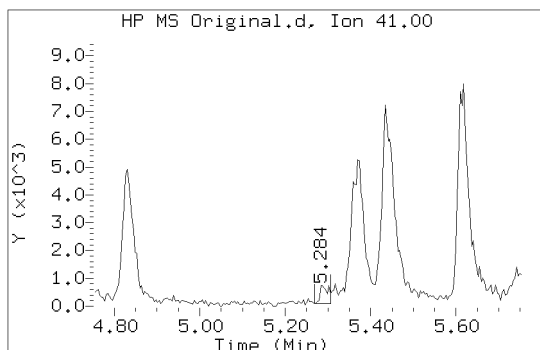
AFTER

MASS
56
AREA
4891
HEIGHT
1266
27-Dec-2022
16:07
linh
pham



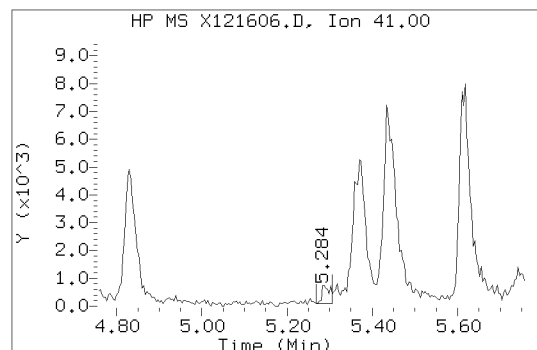
BEFORE

MASS
41
AREA
876
HEIGHT
641
27-Dec-2022
16:03
linh
pham



AFTER

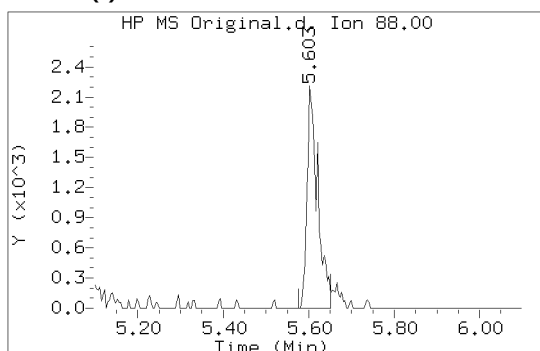
MASS
41
AREA
876
HEIGHT
641
27-Dec-2022
16:07
linh
pham



1,4-Dioxane ()

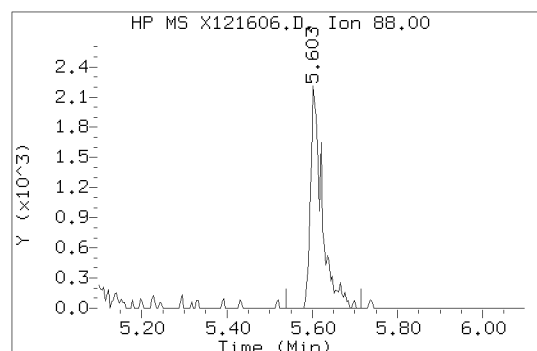
BEFORE

MASS
88
AREA
3873
HEIGHT
2211
27-Dec-2022
16:03
linh
pham



AFTER

MASS
88
AREA
4197
HEIGHT
2211
27-Dec-2022
16:07
linh
pham

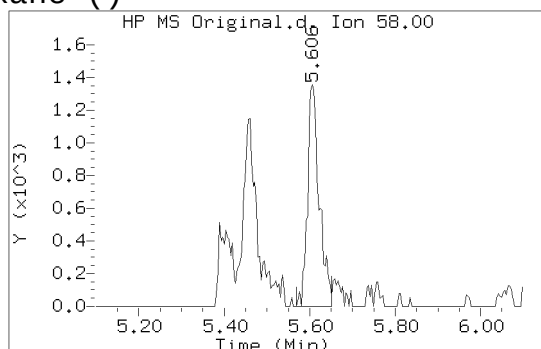


Data File : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,4-Dioxane ()

BEFORE

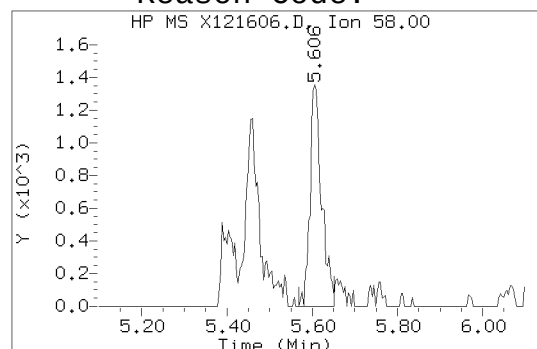
MASS
58
AREA
2625
HEIGHT
1356
27-Dec-2022
16:03
linh
pham



AFTER

MASS
58
AREA
2625
HEIGHT
1356
27-Dec-2022
16:07
linh
pham

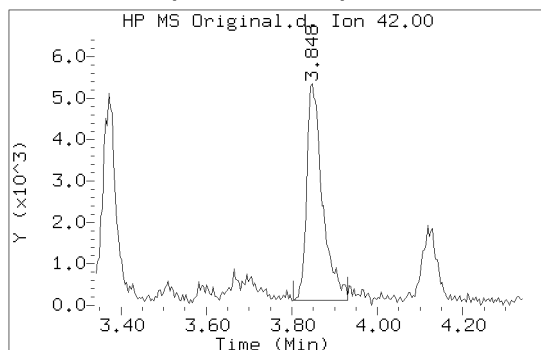
Reason Code:



Tetrahydrofuran (109-99-9)

BEFORE

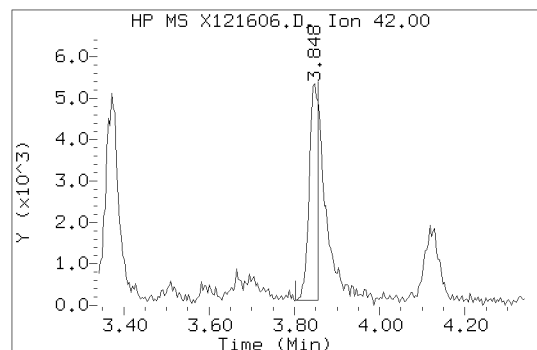
MASS
42
AREA
13557
HEIGHT
5225
27-Dec-2022
16:03
linh
pham



AFTER

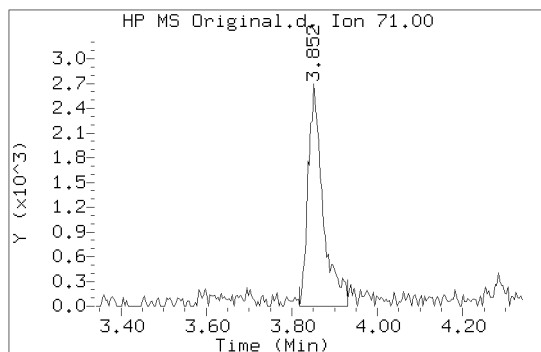
MASS
42
AREA
7598
HEIGHT
5225
27-Dec-2022
16:07
linh
pham

Reason Code:



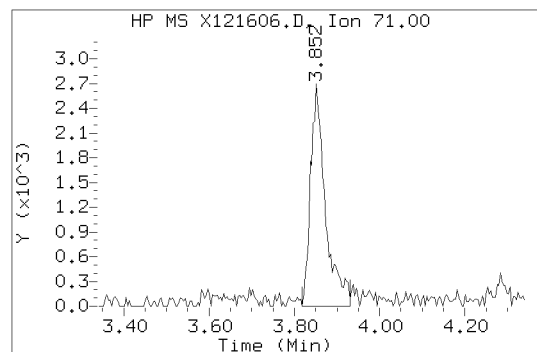
BEFORE

MASS
71
AREA
6572
HEIGHT
2695
27-Dec-2022
16:03
linh
pham



AFTER

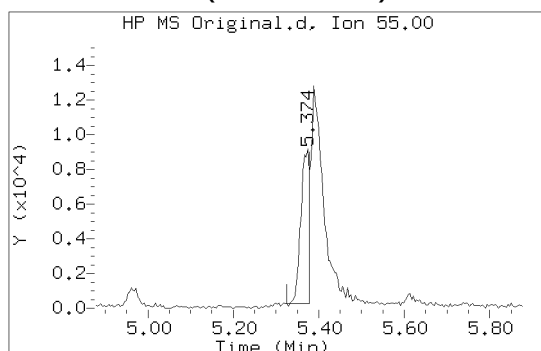
MASS
71
AREA
6572
HEIGHT
2695
27-Dec-2022
16:07
linh
pham



Methylcyclohexane (108-87-2)

BEFORE

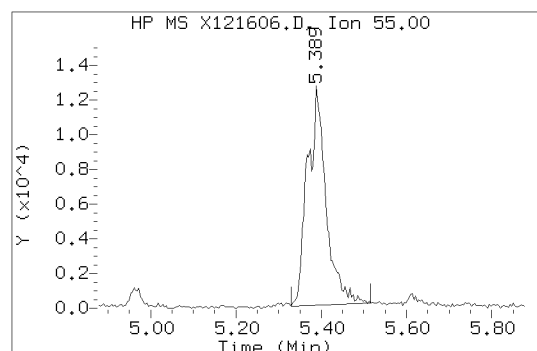
MASS
55
AREA
12381
HEIGHT
8941
27-Dec-2022
16:03
linh
pham



AFTER

MASS
55
AREA
38650
HEIGHT
12647
27-Dec-2022
16:07
linh
pham

Reason Code:

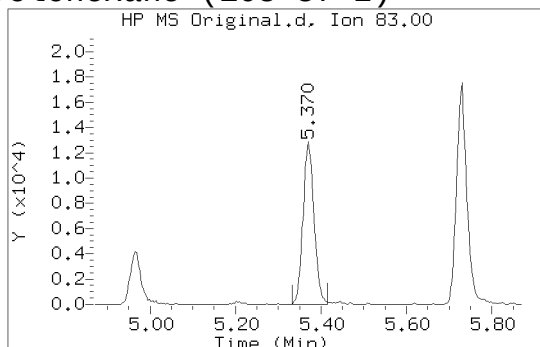


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X221216.b\\X121606.D
Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

Methylcyclohexane (108-87-2)

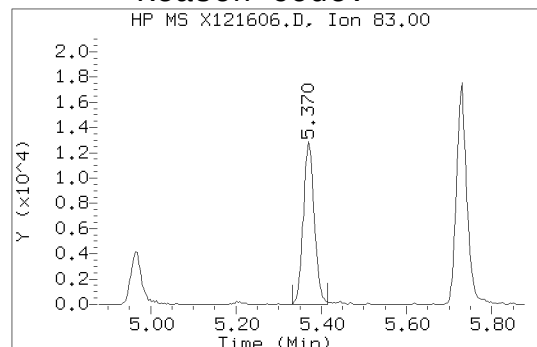
BEFORE

MASS
83
AREA
23564
HEIGHT
12870
27-Dec-2022
16:03
linh
pham



AFTER

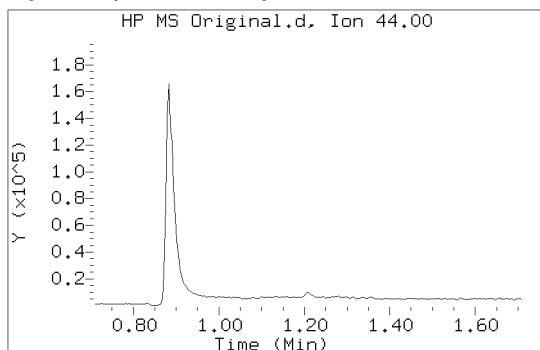
MASS
83
AREA
23564
HEIGHT
12870
27-Dec-2022
16:07
linh
pham



Acetaldehyde (75-07-0)

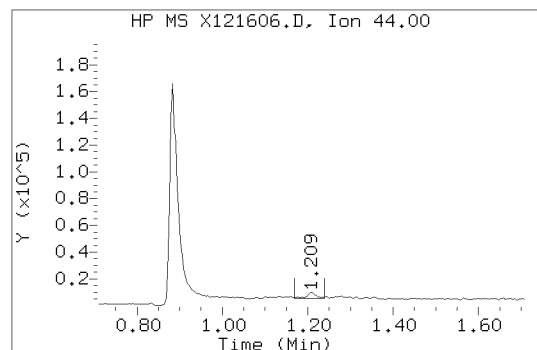
BEFORE

MASS
44
AREA
0
HEIGHT
0
27-Dec-2022
16:03
linh
pham



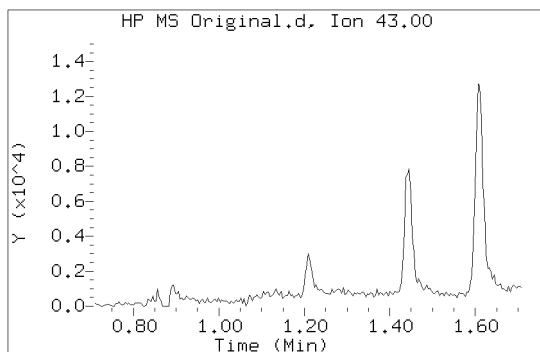
AFTER

MASS
44
AREA
6161
HEIGHT
4314
27-Dec-2022
16:07
linh
pham



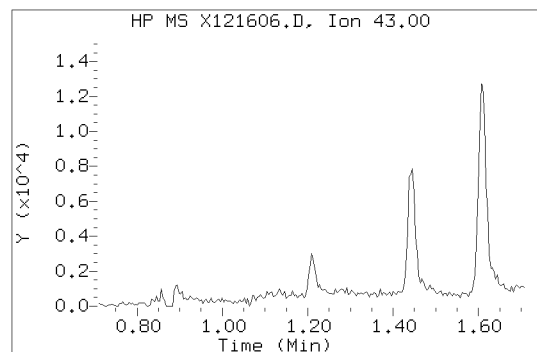
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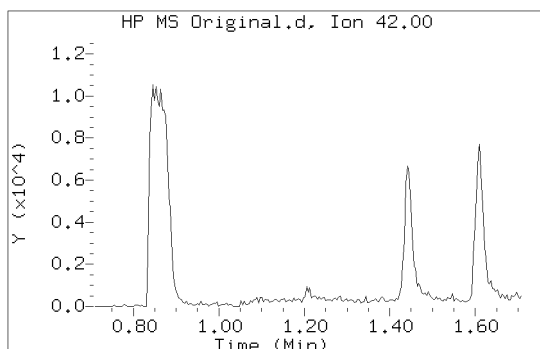
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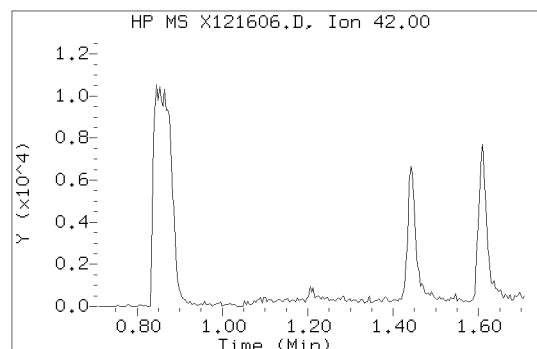
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AFTER

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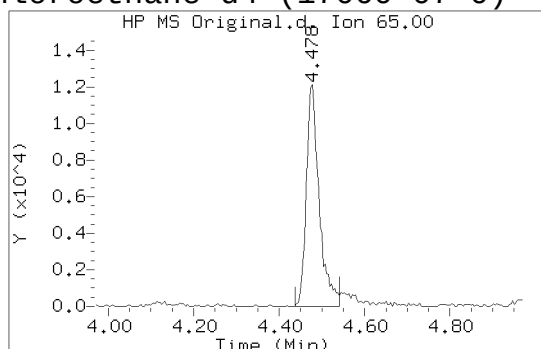


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Inj Date : 16-DEC-2022 13:23
InstruID : voa6.i
LabSampID : VSTD005

1,2-Dichloroethane-d4 (17060-07-0)

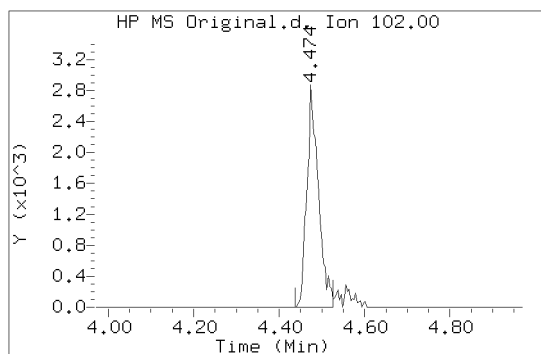
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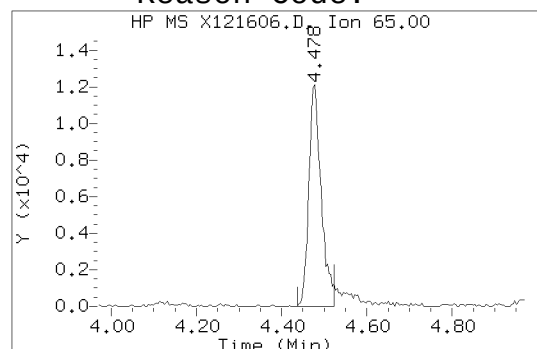
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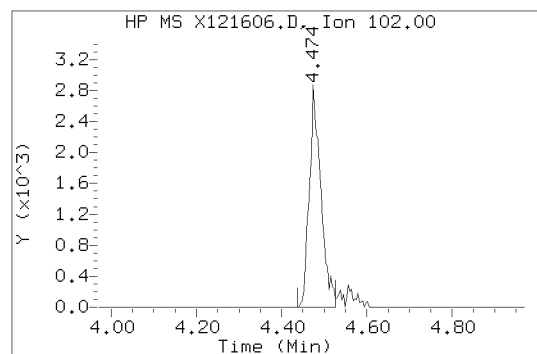
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D
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 Inj Date : 16-DEC-2022 13:43
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD020;VSTD020;1;6;
 Misc Info : V6;WATER;0;1;
 Comment :
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 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 13:23 Cal File: X121606.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)	459407	50.0000		
135 1,4-Dioxane	88		5.598	5.598	(1.340)	16105	400.000	383.50(M)	
140 1,3-Butadiene	54		1.164	1.164	(0.279)	58280	20.0000	18.48	
25 Methacrylonitrile	41		3.821	3.821	(0.915)	62911	20.0000	19.33	
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)	201008	400.000	388.99	
13 Acetonitrile	39		2.195	2.195	(0.525)	81163	200.000	194.11	
14 Allyl Chloride	41		2.195	2.195	(0.525)	150748	20.0000	18.93	
4 Propionitrile	54		3.653	3.653	(0.874)	85562	200.000	182.52	
136 n-Hexane	57		2.768	2.768	(0.663)	65476	20.0000	19.79	
72 trans-1,4-Dichloro-2-butene	53		8.893	8.893	(1.160)	26140	20.0000	18.70	
194 Acetaldehyde	44		1.209	1.209	(0.289)	32393	80.0000	100.98(M)	
23 Chloroprene	53		1.767	1.767	(0.423)	27967	20.0000	17.90(M)	
145 alpha-Methylstyrene	118		9.261	9.261	(0.958)	155968	20.0000	19.76	
200 Dimethyl Disulfide	94		6.198	6.198	(0.808)	171978	20.0000	19.62	
139 Diethyl ether	59		1.756	1.756	(0.420)	55275	20.0000	18.00	
130 Ethyl Acetate	43		3.660	3.660	(0.876)	75163	20.0000	20.96	
40 Methyl Methacrylate	41		5.606	5.606	(1.342)	56242	20.0000	17.95	
49 Ethyl Methacrylate	69		6.712	6.712	(1.352)	58073	20.0000	18.07	
132 n-Butanol	56		5.268	5.268	(1.261)	15012	400.000	294.62	
142 Tetrahydrofuran	42		3.848	3.848	(0.921)	28221	40.0000	47.81	



150 Allyl alcohol	57	2.768	2.768 (0.663)	65476	400.000	366.93
166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	331546	20.0000	19.32

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121607.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.690	3.690	(0.883)	57874	20.0000	18.55(M)
162 Butyl acrylate	55	8.252	8.252	(1.076)	156518	20.0000	18.50
2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	63382	20.0000	19.96
3 Chloromethane	50	1.077	1.077	(0.258)	72324	20.0000	18.84
5 Vinyl Chloride	62	1.141	1.141	(0.273)	74461	20.0000	18.55
6 Bromomethane	94	1.340	1.340	(0.321)	52034	20.0000	18.30
7 Chloroethane	64	1.400	1.400	(0.335)	52021	20.0000	18.62
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	106188	20.0000	18.90
9 Acrolein	56	1.441	1.441	(0.345)	12279	40.0000	40.80
10 Acetone	43	1.973	1.973	(0.472)	50987	40.0000	39.53
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	65650	20.0000	18.82
15 Iodomethane	142	2.026	2.026	(0.485)	143457	40.0000	34.36
16 Acrylonitrile	53	2.532	2.532	(0.606)	46552	40.0000	39.36
17 Methylene Chloride	84	2.303	2.303	(0.551)	94402	20.0000	19.73
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	214504	20.0000	18.79
19 Carbon Disulfide	76	2.067	2.067	(0.495)	337289	40.0000	36.97
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	74471	20.0000	19.08
21 Vinyl Acetate	43	2.997	2.997	(0.717)	387538	40.0000	38.68
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	129644	20.0000	18.93
24 2-Butanone	43	3.578	3.578	(0.856)	47830	40.0000	36.94(H)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	108952	20.0000	18.73
27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	88894	20.0000	18.71
28 Chloroform	83	3.904	3.904	(0.935)	145610	20.0000	18.96
29 Bromochloromethane	128	3.795	3.795	(0.908)	47919	20.0000	18.42
\$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	90108	20.0000	20.32
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	116049	20.0000	19.05
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	93914	20.0000	19.38
33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	108750	20.0000	19.45
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	93815	20.0000	18.13
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	92990	20.0000	20.13
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	682389	50.0000	
37 Benzene	78	4.511	4.511	(0.909)	313141	20.0000	19.21
38 Trichloroethene	130	5.205	5.205	(1.048)	90292	20.0000	19.53
39 Bromodichloromethane	83	5.726	5.726	(1.153)	116178	20.0000	18.99
41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	71559	40.0000	41.12
42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	82954	20.0000	19.13
44 Dibromomethane	93	5.553	5.553	(1.119)	57196	20.0000	19.41
45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	138209	40.0000	39.93
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	142141	20.0000	19.79
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	647445	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	315179	20.0000	19.70
50 Toluene	91	6.445	6.445	(0.841)	339968	20.0000	18.99
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	116330	20.0000	19.51
52 2-Hexanone	43	7.086	7.086	(0.924)	93119	40.0000	39.54
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	69855	20.0000	19.45
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	137967	20.0000	19.52
55 Dibromochloromethane	129	7.176	7.176	(0.936)	100749	20.0000	19.44
56 Tetrachloroethene	164	6.925	6.925	(0.903)	74611	20.0000	20.15
57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	88886	20.0000	19.80
58 1-Chlorohexane	55	7.694	7.694	(1.550)	66757	20.0000	20.24
59 Chlorobenzene	112	7.694	7.694	(1.003)	240885	20.0000	18.97
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	90283	20.0000	19.11



61 Ethylbenzene	106	7.799	7.799 (1.017)	117560	20.0000	19.66
62 m,p-Xylenes	106	7.904	7.904 (1.031)	299082	40.0000	38.80



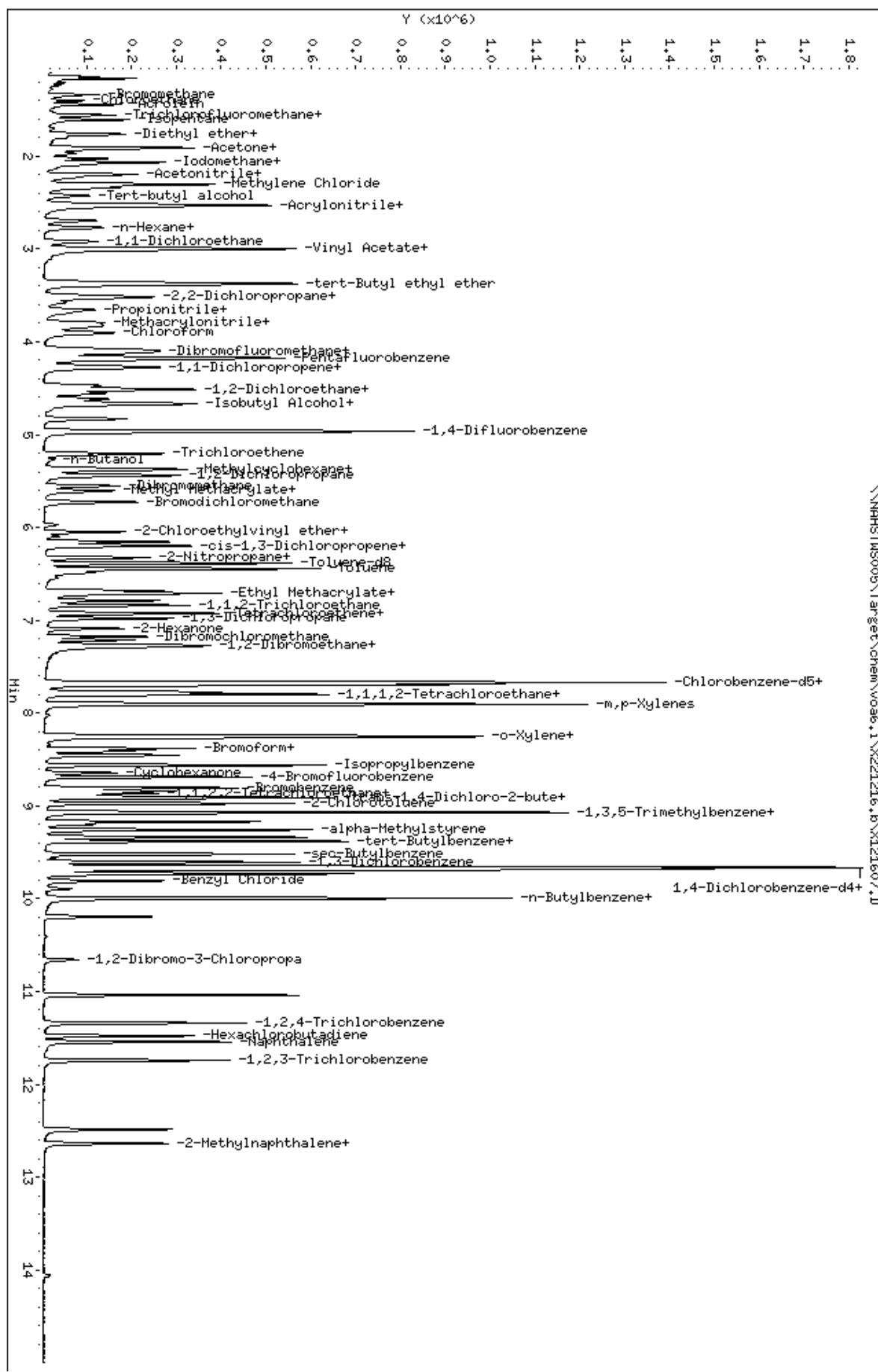
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 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.075)	147602	20.0000	19.40
64 Styrene	104	8.260	8.260	(1.077)	253280	20.0000	19.86
66 Bromoform	173	8.410	8.410	(1.097)	69137	20.0000	19.25
67 Isopropylbenzene	105	8.560	8.560	(1.116)	344283	20.0000	19.80
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	112594	20.0000	19.83
\$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	116878	20.0000	19.58
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	356229	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	76967	20.0000	19.41
73 n-Propylbenzene	91	8.912	8.912	(0.922)	404399	20.0000	20.49
74 Bromobenzene	156	8.803	8.803	(0.911)	117586	20.0000	20.11
75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	295026	20.0000	20.23
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	256591	20.0000	19.81
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	294244	20.0000	19.93
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	242174	20.0000	20.29
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	305461	20.0000	19.91
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	326826	20.0000	20.58
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	294187	20.0000	20.67
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	197278	20.0000	20.33
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	207572	20.0000	19.60
86 Benzyl Chloride	91	9.808	9.808	(1.279)	163895	20.0000	17.99
87 n-Butylbenzene	91	9.995	9.995	(1.035)	248190	20.0000	19.23
88 1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	201166	20.0000	20.13
89 1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.104)	18635	20.0000	20.58
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	130463	20.0000	20.69
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	55912	20.0000	20.12
92 Naphthalene	128	11.544	11.544	(1.195)	300432	20.0000	20.94
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	124401	20.0000	20.60
M 94 1,2-Dichloroethylene (total)	96				163365	40.0000	
M 95 Xylenes (total)	106				446684	60.0000	
141 Cyclohexane	56	4.118	4.118	(0.986)	84355	20.0000	19.01(M)
138 Freon TF	101	1.910	1.910	(0.457)	64657	20.0000	19.17
147 Methylcyclohexane	55	5.381	5.381	(1.084)	172044	20.0000	20.59
146 Methyl Acetate	43	2.228	2.228	(0.533)	38475	20.0000	18.61
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	117583	400.000	369.63
149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	61646	400.000	371.06

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.





\\NAHSTMS005\Target\chem\voa6.i\X221216.b\X121607.D

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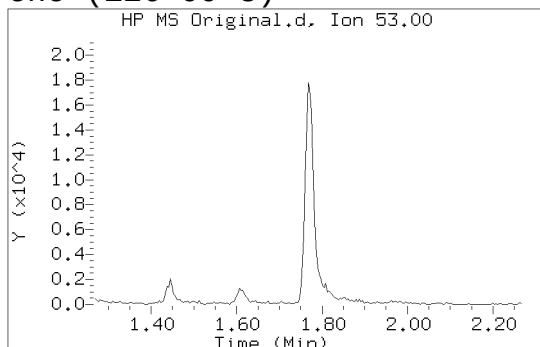
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 Operator: PC
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Chloroprene (126-99-8)

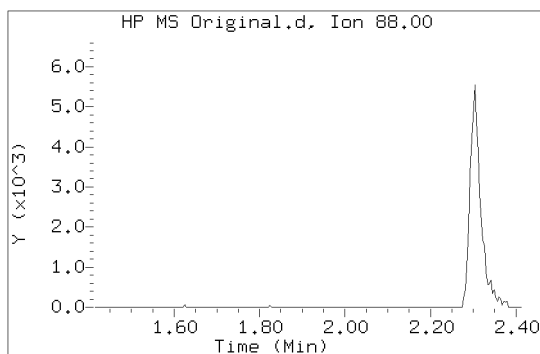
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BEFORE

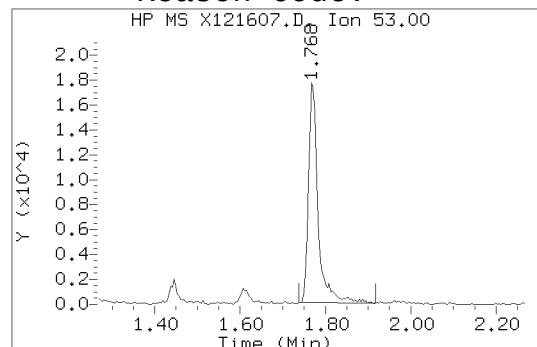
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16:03
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Reason Code:

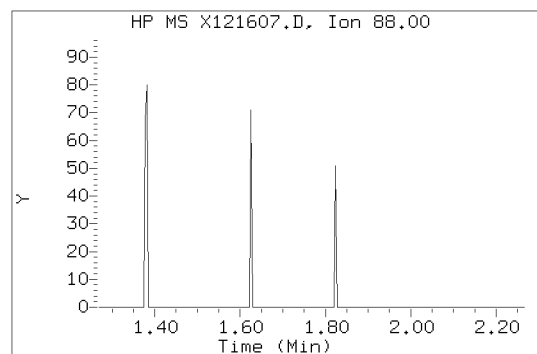
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16:06
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AFTER

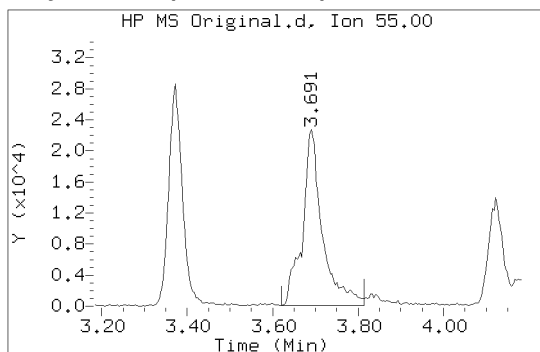
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Methyl Acrylate (96-33-3)

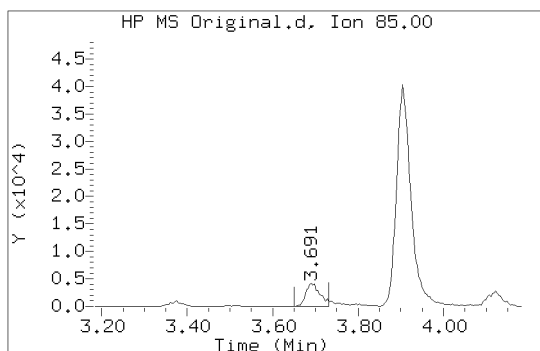
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BEFORE

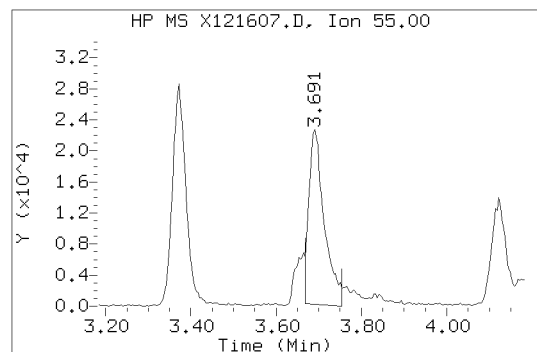
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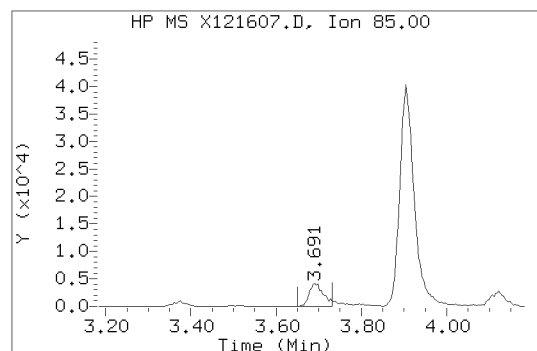
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AFTER

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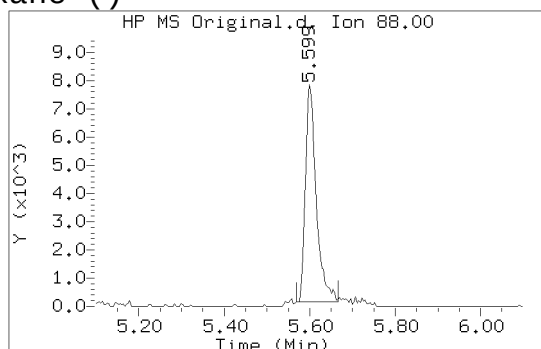


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Inj Date : 16-DEC-2022 13:43
InstruID : voa6.i
LabSampID : VSTD020

1,4-Dioxane ()

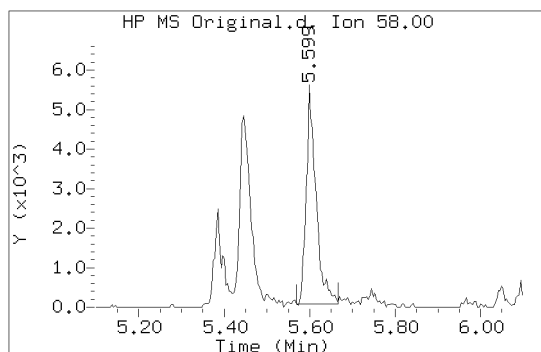
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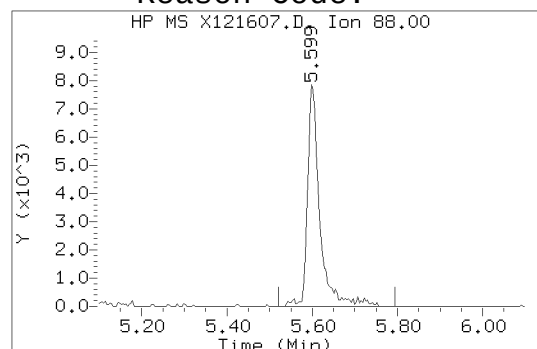
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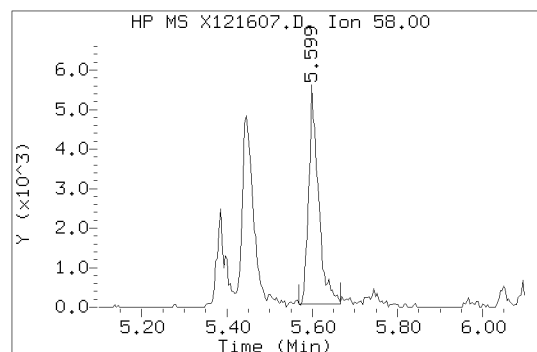
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AFTER

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27-Dec-2022
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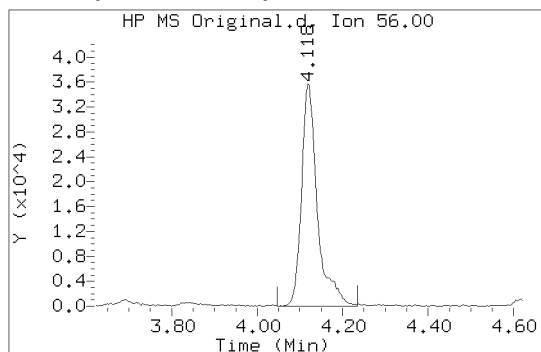


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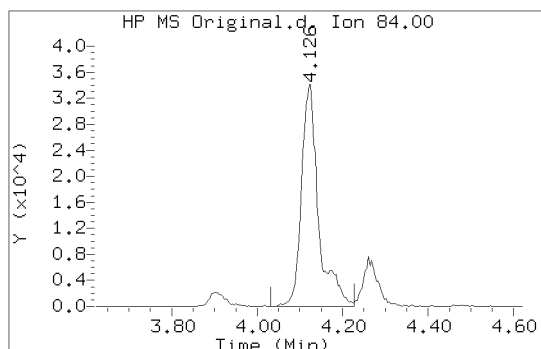
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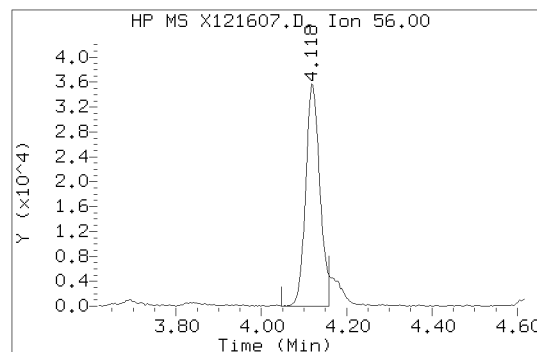
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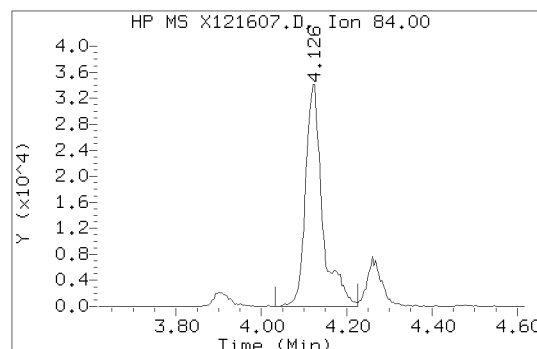
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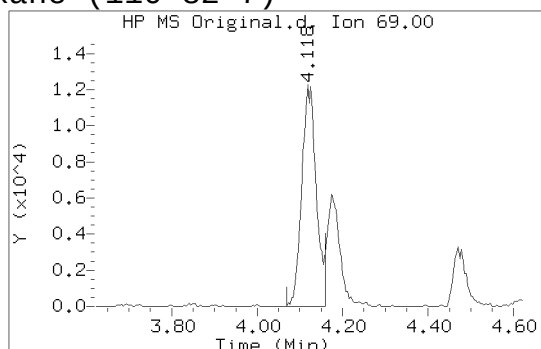


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Inj Date : 16-DEC-2022 13:43
InstruID : voa6.i
LabSampID : VSTD020

Cyclohexane (110-82-7)

BEFORE

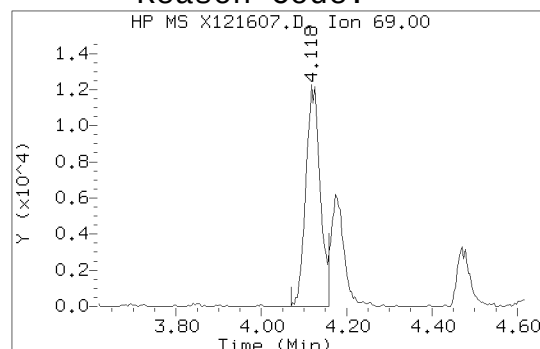
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AFTER

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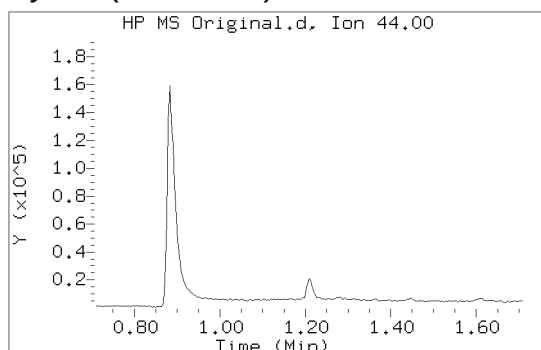
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Acetaldehyde (75-07-0)

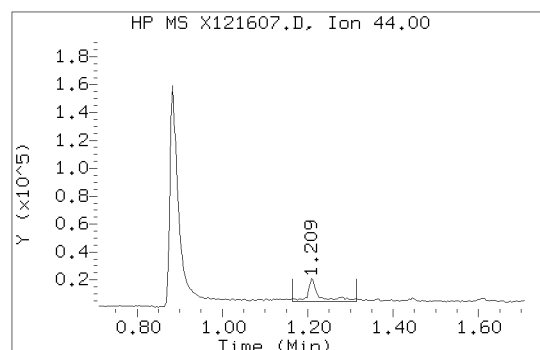
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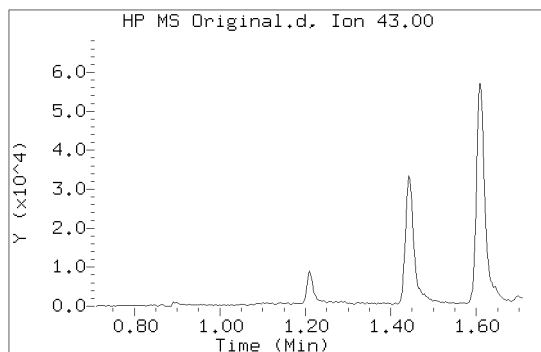
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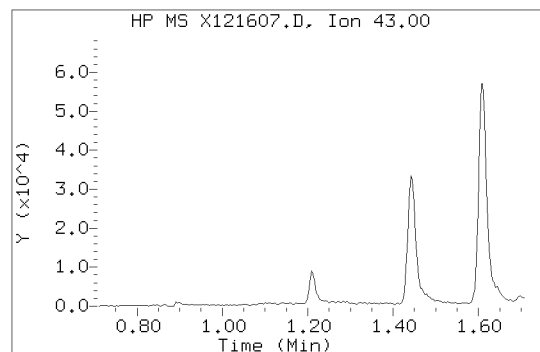
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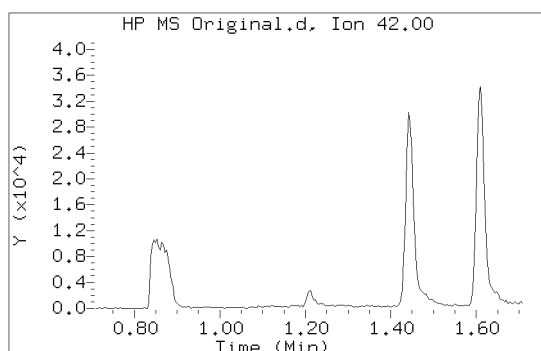
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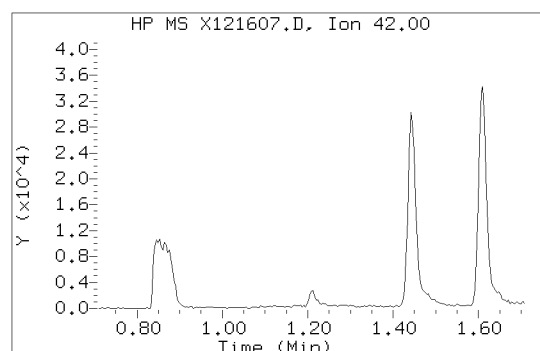
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AFTER

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27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D
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 Inj Date : 16-DEC-2022 14:04
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD050;VSTD050;1;7;
 Misc Info : V6;WATER;0;1;
 Comment :
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 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 13:43 Cal File: X121607.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		457591	50.0000	
135 1,4-Dioxane	88		5.595	5.595	(1.339)		40509	1000.00	968.45
140 1,3-Butadiene	54		1.160	1.160	(0.278)		152324	50.0000	48.50
25 Methacrylonitrile	41		3.821	3.821	(0.915)		147931	50.0000	45.65
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		499872	1000.00	971.21
13 Acetonitrile	39		2.195	2.195	(0.525)		202696	500.000	486.70
14 Allyl Chloride	41		2.195	2.195	(0.525)		372130	50.0000	46.91
4 Propionitrile	54		3.645	3.645	(0.873)		221995	500.000	475.45
136 n-Hexane	57		2.768	2.768	(0.663)		182358	50.0000	55.34
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)		70497	50.0000	50.03
194 Acetaldehyde	44		1.209	1.209	(0.289)		67188	200.000	235.49(M)
23 Chloroprene	53		1.767	1.767	(0.423)		73877	50.0000	47.48(M)
145 alpha-Methylstyrene	118		9.257	9.257	(0.958)		423646	50.0000	51.17
200 Dimethyl Disulfide	94		6.194	6.194	(0.808)		438695	50.0000	49.65
139 Diethyl ether	59		1.756	1.756	(0.420)		141705	50.0000	46.34
130 Ethyl Acetate	43		3.649	3.649	(0.873)		170590	50.0000	47.77
40 Methyl Methacrylate	41		5.606	5.606	(1.342)		147516	50.0000	47.27
49 Ethyl Methacrylate	69		6.712	6.712	(1.352)		144135	50.0000	44.17
132 n-Butanol	56		5.253	5.253	(1.257)		54418	1000.00	935.85
142 Tetrahydrofuran	42		3.844	3.844	(0.920)		58181	100.000	102.34



150 Allyl alcohol	57	2.768	2.768 (0.663)	182358	1000.00	1026.00
166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	826758	50.0000	45.95

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.683	3.683	(0.882)	151068	50.0000	48.62(M)
162 Butyl acrylate	55	8.252	8.252	(1.076)	415774	50.0000	48.76
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	160392	50.0000	50.11
3 Chloromethane	50	1.077	1.077	(0.258)	192710	50.0000	46.69
5 Vinyl Chloride	62	1.141	1.141	(0.273)	201812	50.0000	50.48
6 Bromomethane	94	1.336	1.336	(0.320)	139689	50.0000	46.33
7 Chloroethane	64	1.400	1.400	(0.335)	134745	50.0000	48.43
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	278013	50.0000	49.70
9 Acrolein	56	1.441	1.441	(0.345)	27445	100.000	88.04
10 Acetone	43	1.970	1.970	(0.472)	124798	100.000	97.19
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	168905	50.0000	48.63
15 Iodomethane	142	2.022	2.022	(0.484)	455792	100.000	99.60
16 Acrylonitrile	53	2.528	2.528	(0.605)	118697	100.000	100.77
17 Methylene Chloride	84	2.300	2.300	(0.550)	225642	50.0000	47.36
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	534667	50.0000	47.03
19 Carbon Disulfide	76	2.067	2.067	(0.495)	892690	100.000	98.24
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	191505	50.0000	49.27
21 Vinyl Acetate	43	2.993	2.993	(0.716)	983875	100.000	98.59
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	330037	50.0000	48.38
24 2-Butanone	43	3.574	3.574	(0.856)	130179	100.000	95.71(H)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	283996	50.0000	49.03
27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	228729	50.0000	48.35
28 Chloroform	83	3.904	3.904	(0.935)	370755	50.0000	48.49
29 Bromochloromethane	128	3.788	3.788	(0.907)	120638	50.0000	46.58
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	211939	50.0000	48.23
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	300650	50.0000	49.56
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	256928	50.0000	52.23
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	276500	50.0000	48.70
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	251833	50.0000	47.94
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	222293	50.0000	47.94
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	692830	50.0000	
37 Benzene	78	4.507	4.507	(0.908)	812279	50.0000	49.09
38 Trichloroethene	130	5.205	5.205	(1.048)	233833	50.0000	49.83
39 Bromodichloromethane	83	5.722	5.722	(1.153)	297315	50.0000	47.88
41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	180920	100.000	102.42
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	215079	50.0000	48.87
44 Dibromomethane	93	5.553	5.553	(1.119)	143223	50.0000	47.87
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	336990	100.000	96.59
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	366231	50.0000	50.22
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	652727	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	772486	50.0000	47.89
50 Toluene	91	6.446	6.446	(0.841)	889029	50.0000	49.27
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	309568	50.0000	51.15
52 2-Hexanone	43	7.087	7.087	(0.924)	232879	100.000	98.10
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	172833	50.0000	47.75
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	345991	50.0000	48.56
55 Dibromochloromethane	129	7.176	7.176	(0.936)	260477	50.0000	49.86
56 Tetrachloroethene	164	6.925	6.925	(0.903)	194749	50.0000	52.17
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	229442	50.0000	50.70
58 1-Chlorohexane	55	7.694	7.694	(1.550)	170128	50.0000	50.81
59 Chlorobenzene	112	7.694	7.694	(1.003)	624151	50.0000	48.77
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	235373	50.0000	49.42



61 Ethylbenzene	106	7.799	7.799 (1.017)	311983	50.0000	51.75
62 m,p-Xylenes	106	7.904	7.904 (1.031)	785955	100.000	101.14



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121608.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.075)	385427	50.0000	50.25
64 Styrene	104	8.260	8.260	(1.077)	673066	50.0000	52.35
66 Bromoform	173	8.410	8.410	(1.097)	181492	50.0000	50.14
67 Isopropylbenzene	105	8.560	8.560	(1.116)	920845	50.0000	52.55
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	276483	50.0000	46.43
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	292753	50.0000	48.55
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	373588	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	199888	50.0000	48.08(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1085689	50.0000	52.46
74 Bromobenzene	156	8.803	8.803	(0.911)	299078	50.0000	48.79
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	793494	50.0000	51.90
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	670422	50.0000	49.37
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	782927	50.0000	50.57
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	652461	50.0000	52.14
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	815460	50.0000	50.69
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	889679	50.0000	53.43
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	810483	50.0000	54.32
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	520329	50.0000	51.14
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	544362	50.0000	49.03
86 Benzyl Chloride	91	9.808	9.808	(1.279)	472387	50.0000	46.44
87 n-Butylbenzene	91	9.995	9.995	(1.035)	696355	50.0000	48.48
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	519532	50.0000	49.58
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48660	50.0000	51.11
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	355455	50.0000	53.75
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	155390	50.0000	52.99
92 Naphthalene	128	11.540	11.540	(1.194)	799829	50.0000	53.16
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	320836	50.0000	50.66
M 94 1,2-Dichloroethylene (total)	96				420234	100.000	
M 95 Xylenes (total)	106				1171382	150.000	
141 Cyclohexane	56	4.121	4.121	(0.987)	237699	50.0000	51.49
138 Freon TF	101	1.913	1.913	(0.458)	172155	50.0000	51.25
147 Methylcyclohexane	55	5.377	5.377	(1.083)	420886	50.0000	49.62
146 Methyl Acetate	43	2.228	2.228	(0.533)	96420	50.0000	46.82
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	302677	1000.00	955.26
149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	157082	1000.00	949.28

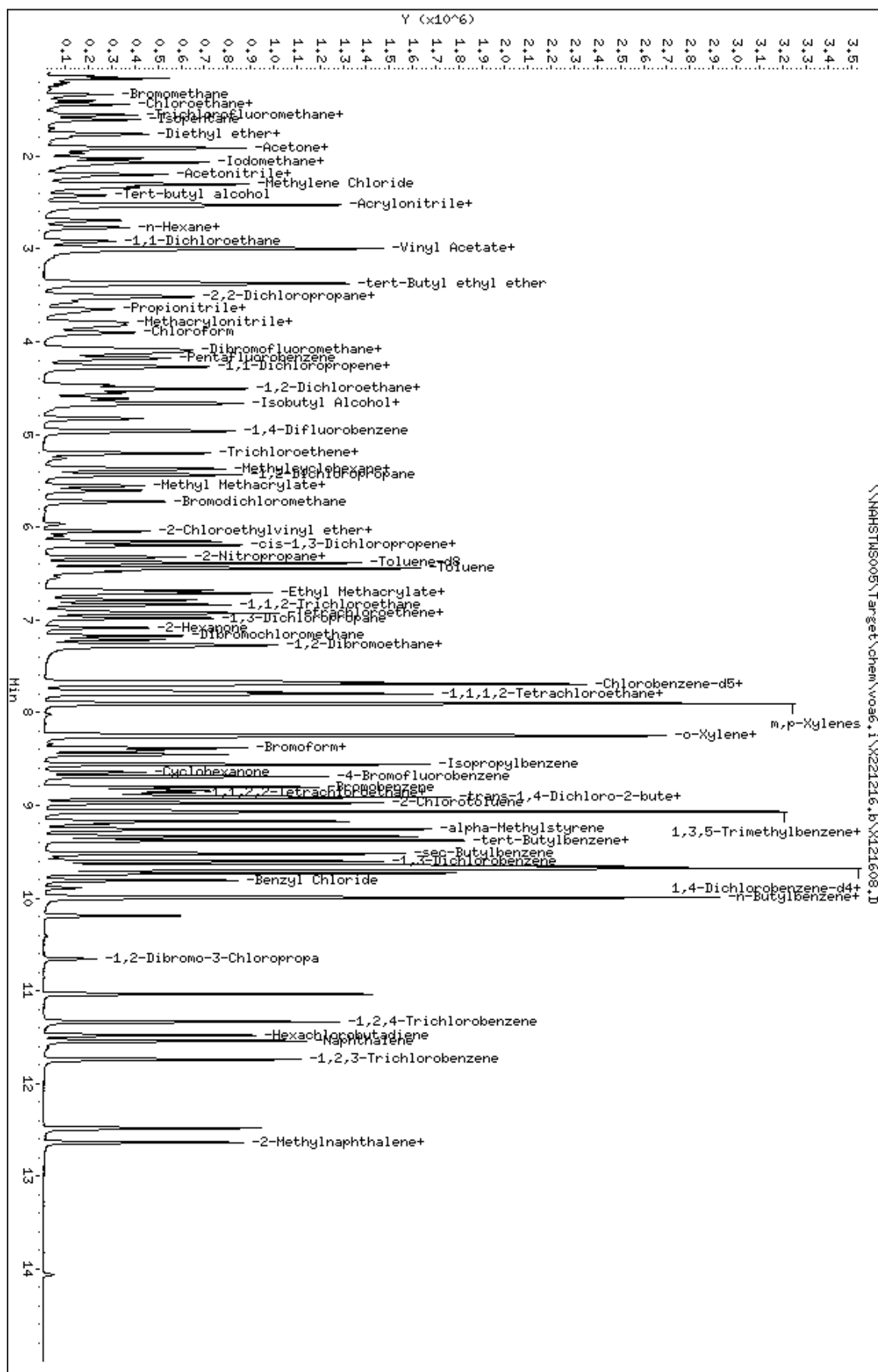
QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.



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 Operator: PC
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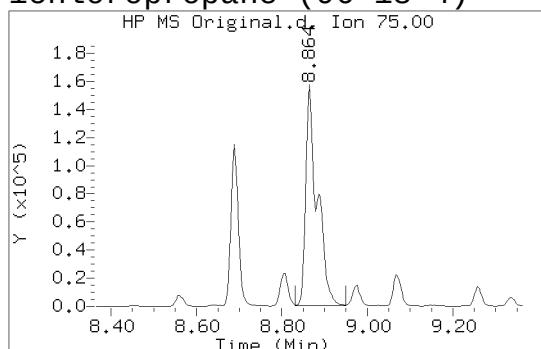


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Inj Date : 16-DEC-2022 14:04
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LabSampID : VSTD050

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

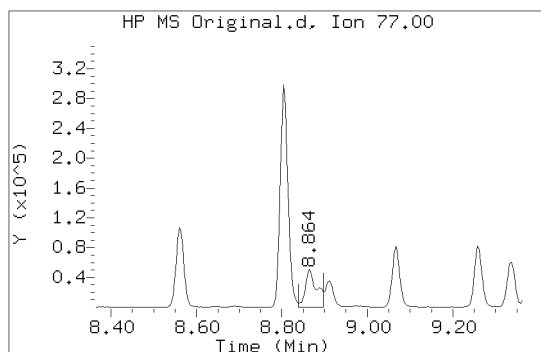
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BEFORE

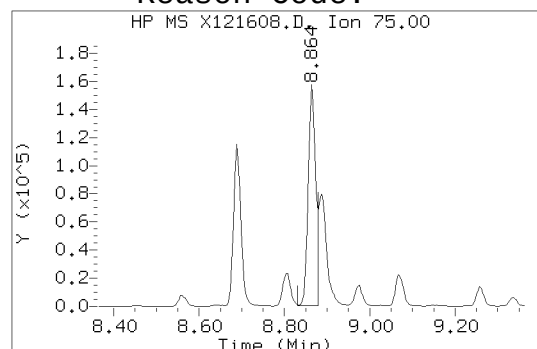
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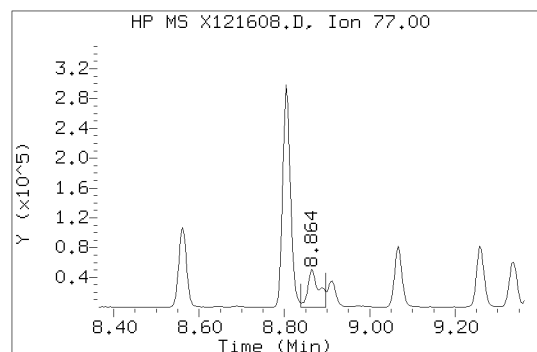
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Reason Code:



AFTER

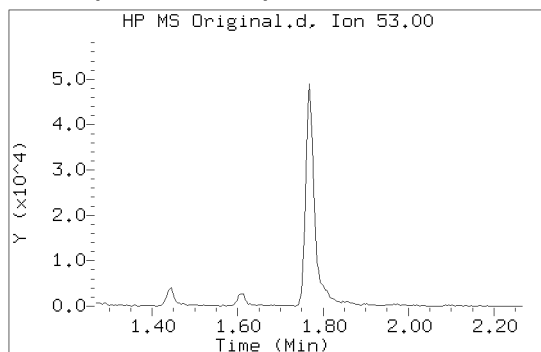
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linh
pham



Chloroprene (126-99-8)

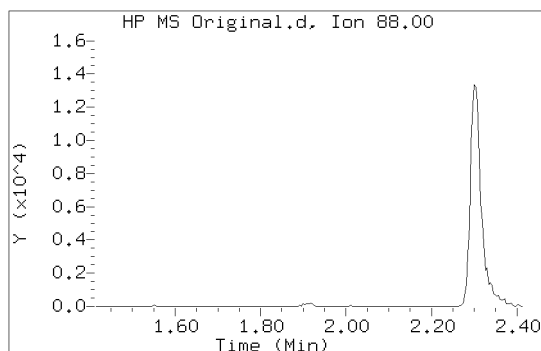
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BEFORE

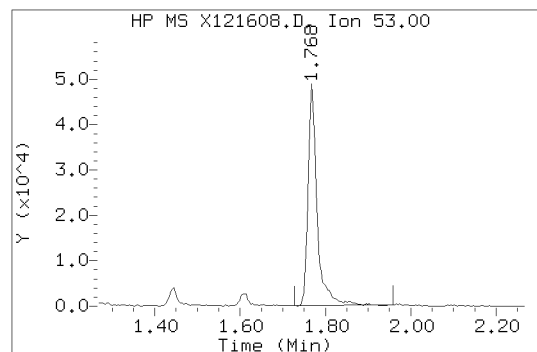
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AFTER

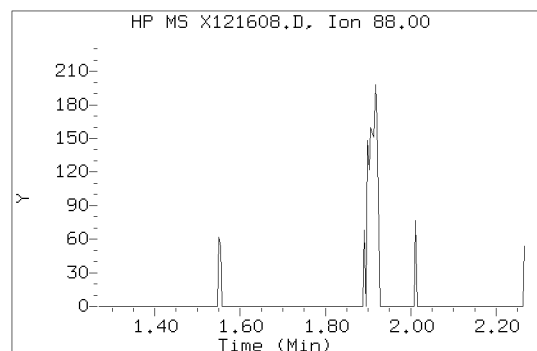
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Reason Code:



AFTER

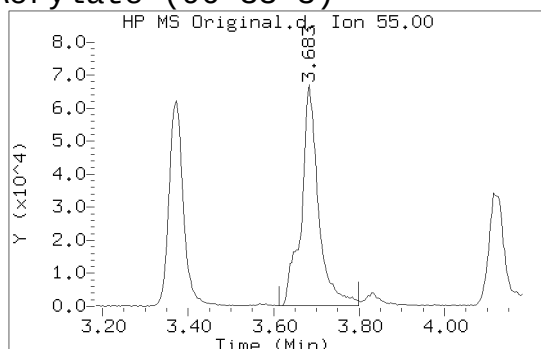
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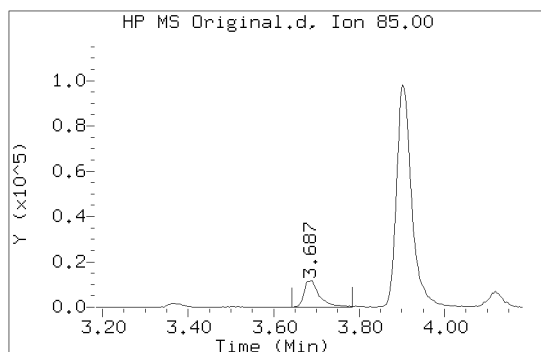
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InstruID : voa6.i
LabSampID : VSTD050

Methyl Acrylate (96-33-3)**BEFORE**

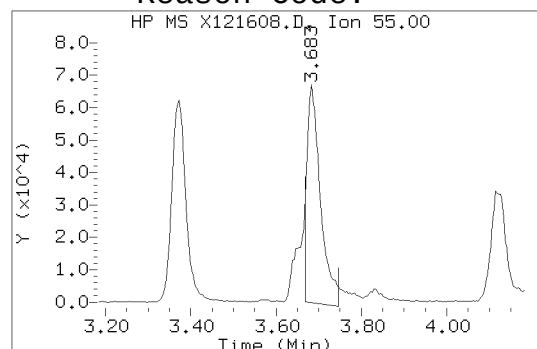
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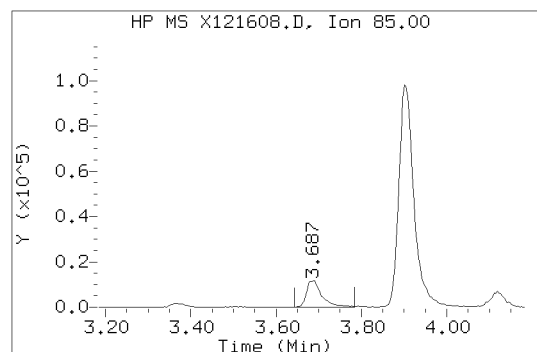
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27-Dec-2022
16:03
linh
pham

**AFTER**

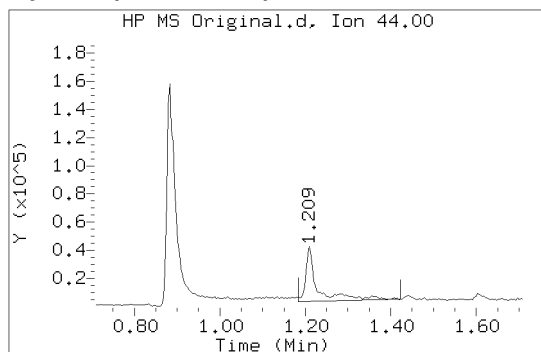
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27-Dec-2022
16:06
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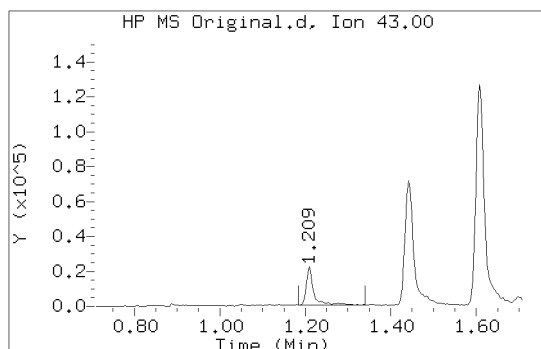
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16:06
linh
pham

**Acetaldehyde (75-07-0)****BEFORE**

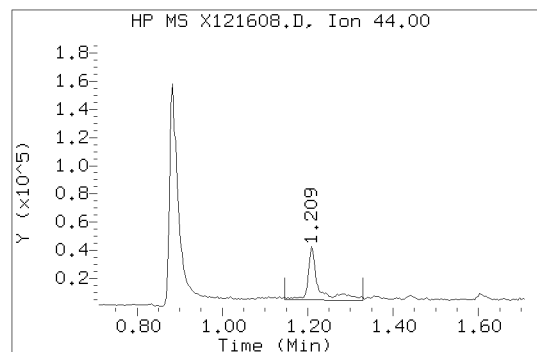
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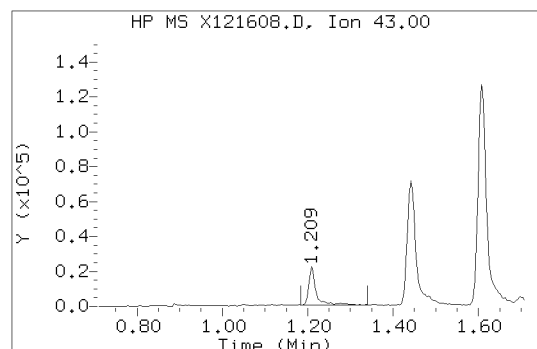
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16:03
linh
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**AFTER**

MASS
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67188
HEIGHT
37862
27-Dec-2022
16:06
linh
pham

Reason Code:**AFTER**

MASS
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HEIGHT
22022
27-Dec-2022
16:06
linh
pham

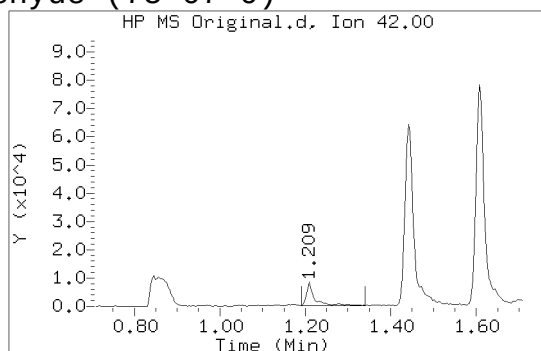


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Inj Date : 16-DEC-2022 14:04
InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

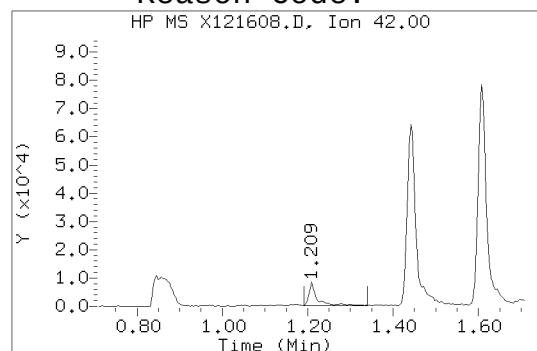
BEFORE

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8504
27-Dec-2022
16:03
linh
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AFTER

MASS
42
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11352
HEIGHT
8504
27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D
 Lab Smp Id: VSTD100 Client Smp ID: VSTD100
 Inj Date : 16-DEC-2022 14:25
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD100;VSTD100;1;8;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 10 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		454640	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		80329	2000.00	1932.89
140 1,3-Butadiene	54		1.160	1.160	(0.278)		300004	100.000	96.14
25 Methacrylonitrile	41		3.822	3.822	(0.915)		296105	100.000	91.97
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		1010956	2000.00	1976.95
13 Acetonitrile	39		2.195	2.195	(0.525)		413876	1000.00	1000.23
14 Allyl Chloride	41		2.195	2.195	(0.525)		756242	100.000	95.96
4 Propionitrile	54		3.645	3.645	(0.873)		447087	1000.00	963.76
136 n-Hexane	57		2.768	2.768	(0.663)		330416	100.000	100.93
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)		144667	100.000	100.47
194 Acetaldehyde	44		1.209	1.209	(0.289)		107798	400.000	394.60(M)
23 Chloroprene	53		1.767	1.767	(0.423)		146540	100.000	94.79(M)
145 alpha-Methylstyrene	118		9.257	9.257	(0.958)		857105	100.000	100.18
200 Dimethyl Disulfide	94		6.194	6.194	(0.808)		912573	100.000	101.09
139 Diethyl ether	59		1.752	1.752	(0.420)		288002	100.000	94.80
130 Ethyl Acetate	43		3.649	3.649	(0.873)		318062	100.000	89.65
40 Methyl Methacrylate	41		5.606	5.606	(1.342)		295199	100.000	95.22
49 Ethyl Methacrylate	69		6.712	6.712	(1.352)		311883	100.000	96.06
132 n-Butanol	56		5.253	5.253	(1.258)		124057	2000.00	1971.40
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		109518	200.000	196.74



150 Allyl alcohol	57	2.768	2.768 (0.663)	330416	2000.00	1871.09
166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	1772216	100.000	95.31

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 2
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.683	3.683	(0.882)	308372	100.000	99.90(M)
162 Butyl acrylate	55	8.249	8.249	(1.076)	901265	100.000	103.44
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	309019	100.000	96.81
3 Chloromethane	50	1.078	1.078	(0.258)	388163	100.000	92.40
5 Vinyl Chloride	62	1.141	1.141	(0.273)	390567	100.000	98.34
6 Bromomethane	94	1.336	1.336	(0.320)	284165	100.000	93.02
7 Chloroethane	64	1.400	1.400	(0.335)	261091	100.000	94.45
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	543907	100.000	97.86
9 Acrolein	56	1.441	1.441	(0.345)	60756	200.000	192.70
10 Acetone	43	1.970	1.970	(0.472)	243517	200.000	190.92
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	329394	100.000	95.46
15 Iodomethane	142	2.026	2.026	(0.485)	958603	200.000	197.72
16 Acrylonitrile	53	2.528	2.528	(0.605)	235604	200.000	201.32
17 Methylene Chloride	84	2.300	2.300	(0.550)	423827	100.000	89.54
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1078258	100.000	95.46
19 Carbon Disulfide	76	2.063	2.063	(0.494)	1765599	200.000	195.57
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	376933	100.000	97.60
21 Vinyl Acetate	43	2.993	2.993	(0.716)	1955305	200.000	197.21
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	641083	100.000	94.59
24 2-Butanone	43	3.570	3.570	(0.855)	264221	200.000	192.38(H)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	554902	100.000	96.43
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	443532	100.000	94.37
28 Chloroform	83	3.904	3.904	(0.935)	715830	100.000	94.23
29 Bromochloromethane	128	3.792	3.792	(0.908)	239022	100.000	92.88
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	438954	100.000	100.72
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	583361	100.000	96.79
32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	496096	100.000	101.35
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	553661	100.000	98.01
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	487488	100.000	93.26
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	455890	100.000	98.67
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	689427	50.0000	
37 Benzene	78	4.508	4.508	(0.908)	1590142	100.000	96.58
38 Trichloroethene	130	5.205	5.205	(1.048)	456948	100.000	97.85
39 Bromodichloromethane	83	5.722	5.722	(1.153)	587419	100.000	95.07
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	345852	200.000	196.75
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	420835	100.000	96.09
44 Dibromomethane	93	5.550	5.550	(1.118)	280146	100.000	94.11
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	671115	200.000	188.25
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	735867	100.000	101.41
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	666948	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	1602890	100.000	97.25
50 Toluene	91	6.446	6.446	(0.841)	1761917	100.000	95.57
51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	618784	100.000	102.75
52 2-Hexanone	43	7.087	7.087	(0.924)	458639	200.000	189.09
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	342194	100.000	92.52
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	682500	100.000	93.75
55 Dibromochloromethane	129	7.173	7.173	(0.935)	521219	100.000	97.64
56 Tetrachloroethene	164	6.925	6.925	(0.903)	373651	100.000	97.96
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	453499	100.000	98.07
58 1-Chlorohexane	55	7.694	7.694	(1.550)	326538	100.000	98.00
59 Chlorobenzene	112	7.694	7.694	(1.003)	1229287	100.000	94.01
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	472962	100.000	97.19



61 Ethylbenzene	106	7.799	7.799 (1.017)	612289	100.000	99.40
62 m,p-Xylenes	106	7.904	7.904 (1.031)	1556563	200.000	196.03



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121609.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.075)	767814	100.000	97.97
64 Styrene	104	8.260	8.260	(1.077)	1350780	100.000	102.83
66 Bromoform	173	8.410	8.410	(1.097)	367943	100.000	99.50
67 Isopropylbenzene	105	8.560	8.560	(1.116)	1818857	100.000	101.58
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	554091	100.000	90.03
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	615584	100.000	99.86
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386107	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	407425	100.000	94.83(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	2152414	100.000	100.64
74 Bromobenzene	156	8.803	8.803	(0.911)	602819	100.000	95.16
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1603520	100.000	101.49
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	1326500	100.000	94.51
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	1587855	100.000	99.24
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	1287608	100.000	99.56
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1640529	100.000	98.68
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	1778581	100.000	103.36
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	1606121	100.000	104.16
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	1039293	100.000	98.84
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1114780	100.000	97.16
86 Benzyl Chloride	91	9.808	9.808	(1.279)	1009234	100.000	94.18
87 n-Butylbenzene	91	9.992	9.992	(1.034)	1425779	100.000	94.31
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1054319	100.000	97.36
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	94321	100.000	95.78
90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	697257	100.000	102.03
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	299042	100.000	97.63
92 Naphthalene	128	11.540	11.540	(1.194)	1592534	100.000	102.42
93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	642199	100.000	98.12
M 94 1,2-Dichloroethylene (total)	96				820465	200.000	
M 95 Xylenes (total)	106				2324377	300.000	
141 Cyclohexane	56	4.118	4.118	(0.986)	432198	100.000	93.19
138 Freon TF	101	1.913	1.913	(0.458)	327614	100.000	98.16
147 Methylcyclohexane	55	5.377	5.377	(1.083)	862071	100.000	102.15(A)
146 Methyl Acetate	43	2.228	2.228	(0.533)	196542	100.000	96.07
148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	592215	2000.00	1881.19
149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	321288	2000.00	1954.21

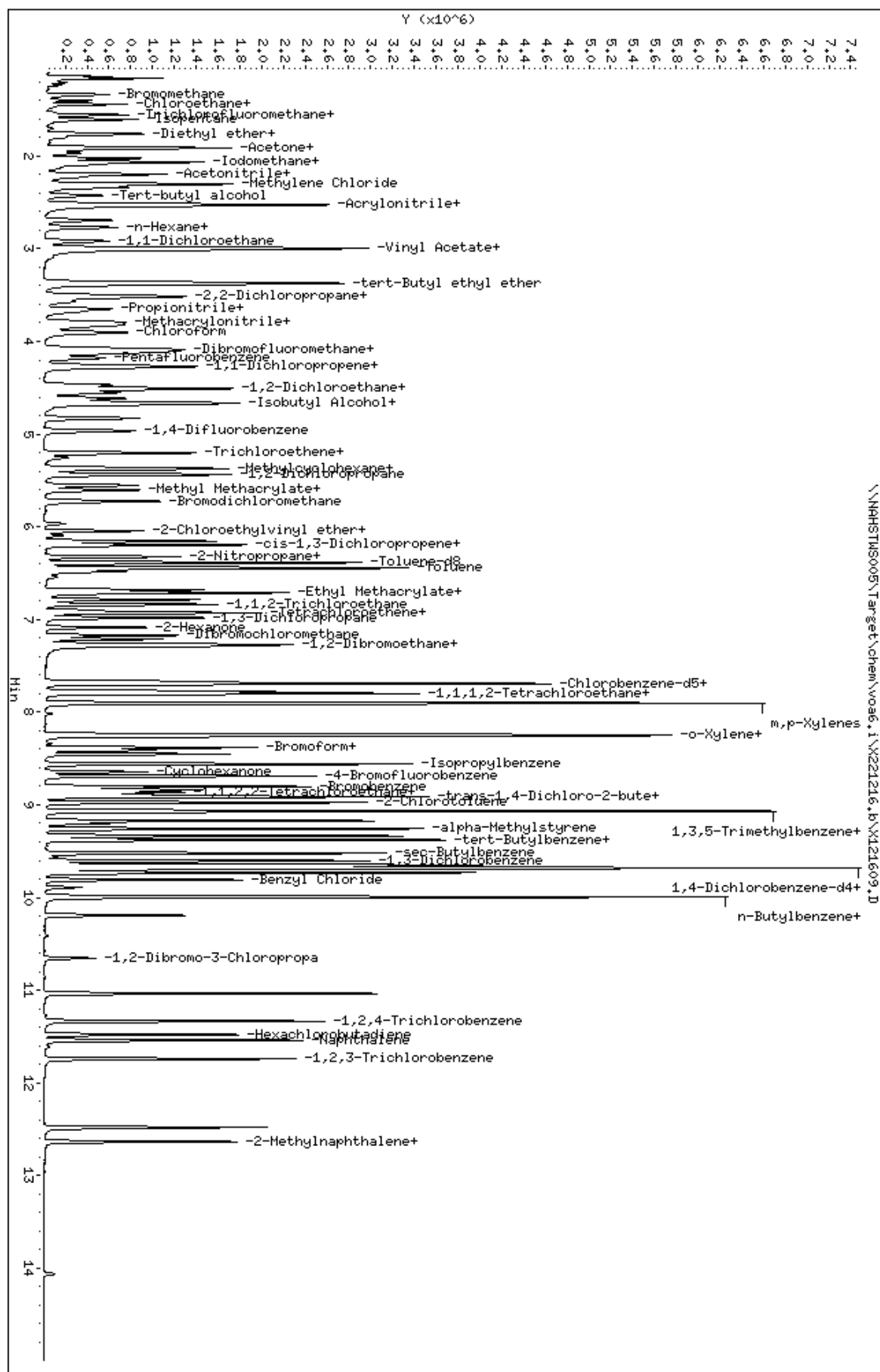
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.



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 Column phase: DB624

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

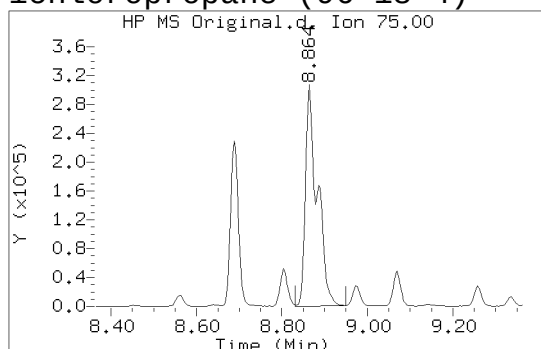


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 Inj Date : 16-DEC-2022 14:25
 InstruID : voa6.i
 LabSampID : VSTD100

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

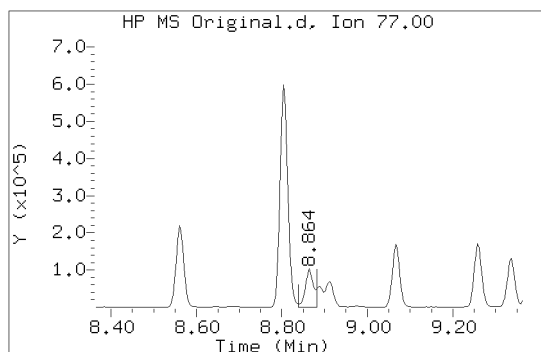
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HEIGHT
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27-Dec-2022
16:03
linh



BEFORE

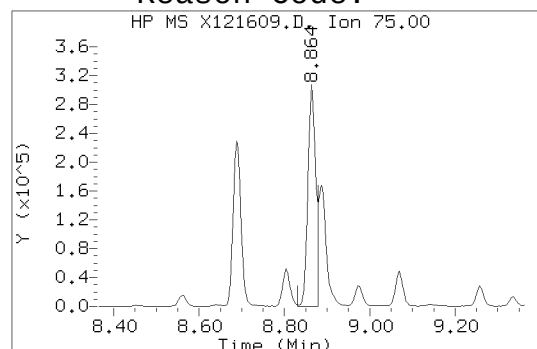
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16:03
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AFTER

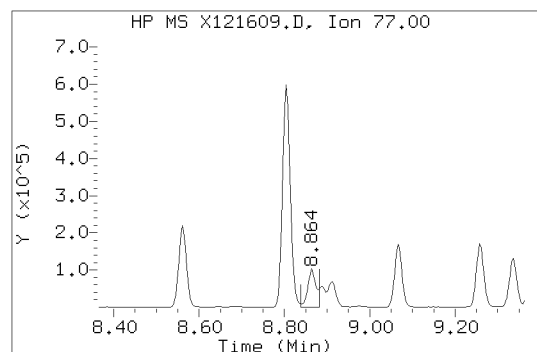
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AREA
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27-Dec-2022
16:06
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Reason Code:



AFTER

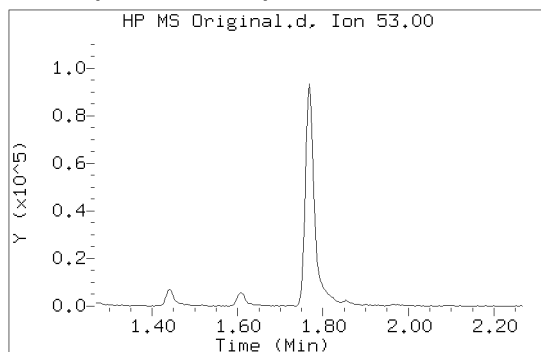
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16:06
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pham



Chloroprene (126-99-8)

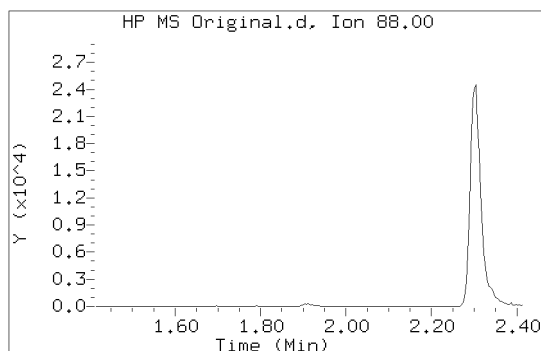
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AREA
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BEFORE

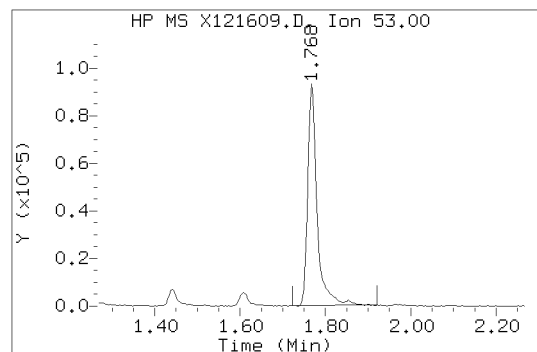
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AFTER

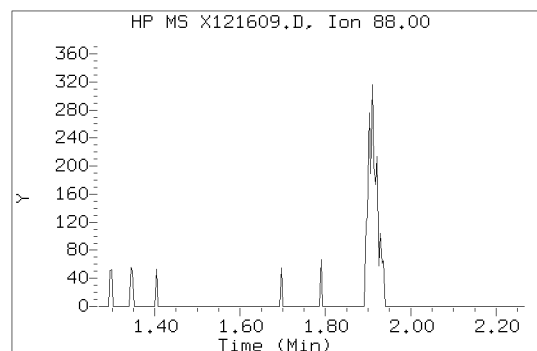
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Reason Code:



AFTER

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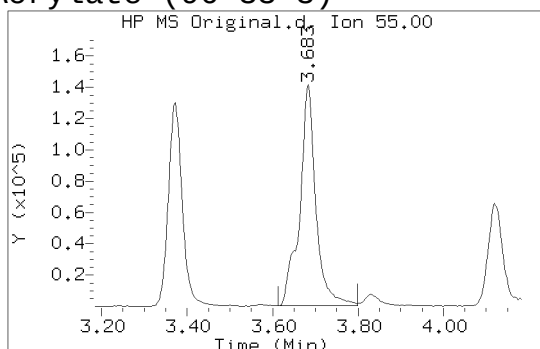


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Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

Methyl Acrylate (96-33-3)

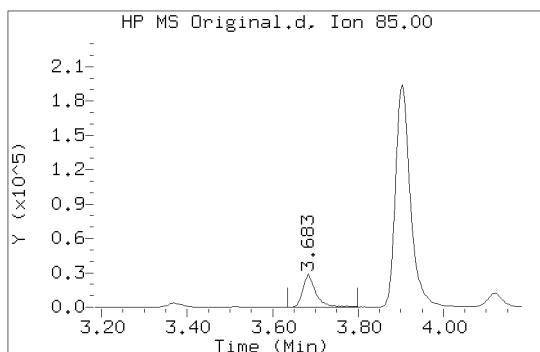
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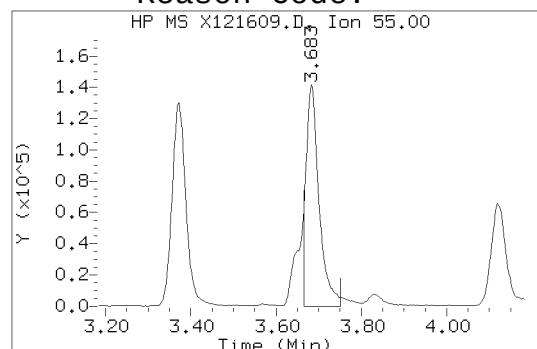
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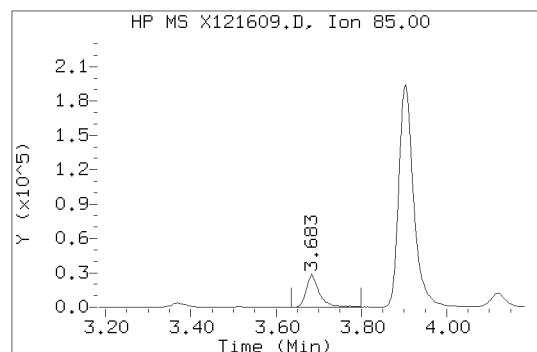
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AFTER

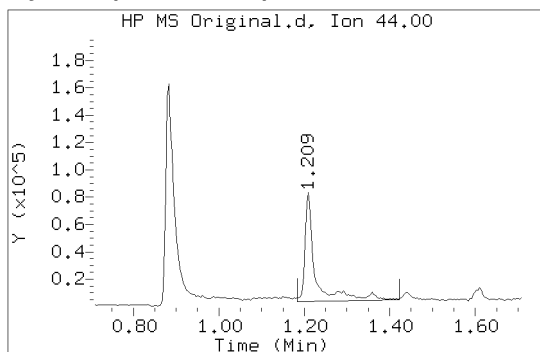
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16:06
linh
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Acetaldehyde (75-07-0)

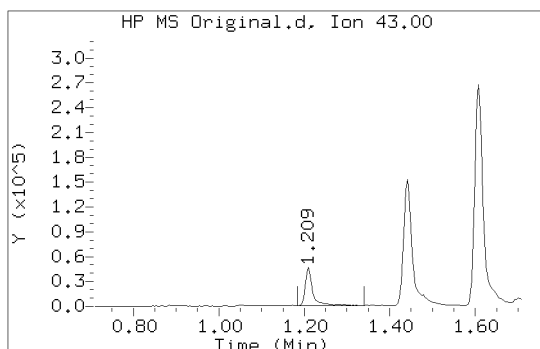
BEFORE

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linh
pham



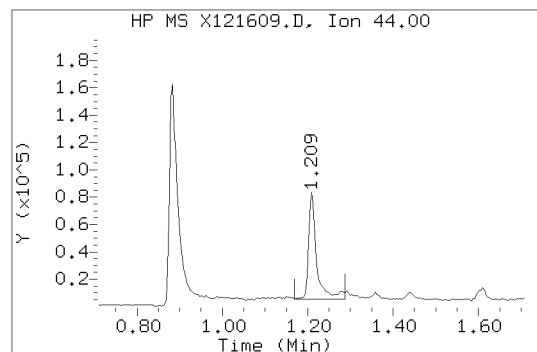
BEFORE

MASS
43
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HEIGHT
46134
27-Dec-2022
16:03
linh
pham



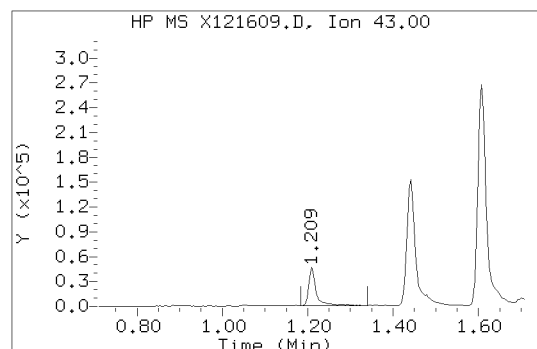
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MASS
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HEIGHT
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27-Dec-2022
16:06
linh
pham



AFTER

MASS
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58307
HEIGHT
46134
27-Dec-2022
16:06
linh
pham

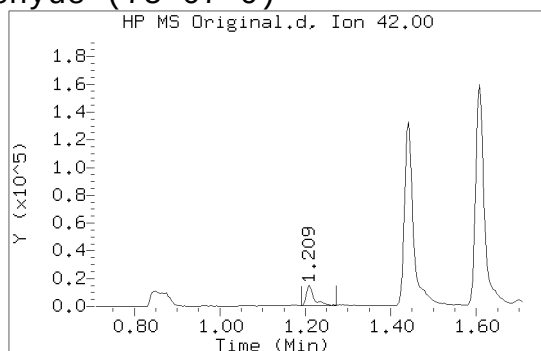


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Inj Date : 16-DEC-2022 14:25
InstruID : voa6.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

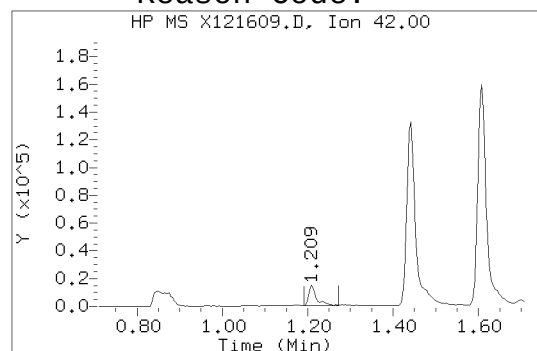
BEFORE

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14674
27-Dec-2022
16:03
linh
pham



AFTER

MASS
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19613
HEIGHT
14674
27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D
 Lab Smp Id: VSTD150 Client Smp ID: VSTD150
 Inj Date : 16-DEC-2022 14:46
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD150;VSTD150;1;9;
 Misc Info : V6;WATER;0;1;
 Comment :
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 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:25 Cal File: X121609.D
 Als bottle: 11 Calibration Sample, Level: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		447266	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		128845	3000.00	3151.41
140 1,3-Butadiene	54		1.160	1.160	(0.278)		468966	150.000	152.77
25 Methacrylonitrile	41		3.818	3.818	(0.914)		457301	150.000	144.39
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		1595753	3000.00	3171.99
13 Acetonitrile	39		2.194	2.194	(0.525)		642798	1500.00	1579.09
14 Allyl Chloride	41		2.194	2.194	(0.525)		1164663	150.000	150.22
4 Propionitrile	54		3.649	3.649	(0.873)		694740	1500.00	1522.31
136 n-Hexane	57		2.768	2.768	(0.663)		533876	150.000	165.78
72 trans-1,4-Dichloro-2-butene	53		8.889	8.889	(1.159)		234252	150.000	161.53
194 Acetaldehyde	44		1.209	1.209	(0.289)		161053	600.000	611.34(M)
23 Chloroprene	53		1.767	1.767	(0.423)		225733	150.000	148.43
145 alpha-Methylstyrene	118		9.257	9.257	(0.958)		1351001	150.000	157.73
200 Dimethyl Disulfide	94		6.198	6.198	(0.808)		1420820	150.000	156.27
139 Diethyl ether	59		1.752	1.752	(0.419)		443624	150.000	148.44
130 Ethyl Acetate	43		3.649	3.649	(0.873)		516433	150.000	147.97
40 Methyl Methacrylate	41		5.602	5.602	(1.341)		465959	150.000	152.78
49 Ethyl Methacrylate	69		6.712	6.712	(1.352)		517063	150.000	157.90
132 n-Butanol	56		5.253	5.253	(1.258)		210842	3000.00	3100.52
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		162133	300.000	297.65



150 Allyl alcohol	57	2.768	2.768 (0.663)	533876	3000.00	3073.09
166 1,2,3-Trimethylbenzene	105	9.729	9.729 (1.007)	2744011	150.000	147.41

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 2
Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.683	3.683	(0.882)	479571	150.000	157.93(M)
162 Butyl acrylate	55	8.248	8.248	(1.076)	1470193	150.000	167.53
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	476130	150.000	151.40
3 Chloromethane	50	1.077	1.077	(0.258)	621048	150.000	148.89
5 Vinyl Chloride	62	1.141	1.141	(0.273)	602774	150.000	154.27
6 Bromomethane	94	1.332	1.332	(0.319)	470318	150.000	155.29
7 Chloroethane	64	1.400	1.400	(0.335)	409168	150.000	150.45
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	866865	150.000	158.54
9 Acrolein	56	1.441	1.441	(0.345)	96139	300.000	308.25
10 Acetone	43	1.969	1.969	(0.472)	373504	300.000	297.68
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	516820	150.000	152.24
15 Iodomethane	142	2.022	2.022	(0.484)	1554547	300.000	304.69
16 Acrylonitrile	53	2.528	2.528	(0.605)	371872	300.000	323.00
17 Methylene Chloride	84	2.299	2.299	(0.550)	656037	150.000	140.89
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1661314	150.000	149.51
19 Carbon Disulfide	76	2.063	2.063	(0.494)	2747788	300.000	309.38
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	579939	150.000	152.65
21 Vinyl Acetate	43	2.993	2.993	(0.716)	3127175	300.000	320.61
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	993924	150.000	149.06
24 2-Butanone	43	3.570	3.570	(0.855)	407629	300.000	299.97(H)
26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	858853	150.000	151.71
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	693846	150.000	150.07
28 Chloroform	83	3.904	3.904	(0.935)	1135322	150.000	151.92
29 Bromochloromethane	128	3.791	3.791	(0.908)	379595	150.000	149.95
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	652724	150.000	152.32
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	907111	150.000	152.99
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	766313	150.000	155.22
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	857022	150.000	150.42
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	758288	150.000	143.83
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	686218	150.000	150.83
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	695375	50.0000	
37 Benzene	78	4.511	4.511	(0.909)	2450385	150.000	147.56
38 Trichloroethene	130	5.205	5.205	(1.048)	707016	150.000	150.11
39 Bromodichloromethane	83	5.722	5.722	(1.153)	932632	150.000	149.65
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	534005	300.000	301.19
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	658007	150.000	148.96
44 Dibromomethane	93	5.549	5.549	(1.118)	444851	150.000	148.16
45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1052577	300.000	293.14
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1159982	150.000	158.49
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	671780	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	2346444	150.000	141.35
50 Toluene	91	6.445	6.445	(0.841)	2724692	150.000	146.73
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	982044	150.000	161.68
52 2-Hexanone	43	7.086	7.086	(0.924)	738082	300.000	302.12
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	540625	150.000	145.13
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	1079961	150.000	147.29
55 Dibromochloromethane	129	7.176	7.176	(0.936)	822094	150.000	152.90
56 Tetrachloroethene	164	6.929	6.929	(0.904)	574499	150.000	149.53
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	715678	150.000	153.66
58 1-Chlorohexane	55	7.697	7.697	(1.550)	522502	150.000	155.48
59 Chlorobenzene	112	7.694	7.694	(1.003)	1944205	150.000	147.62
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	744470	150.000	151.89



61 Ethylbenzene	106	7.799	7.799 (1.017)	946928	150.000	152.63
62 m,p-Xylenes	106	7.904	7.904 (1.031)	2421267	300.000	302.75



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121610.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.075)	1210374	150.000	153.33
64 Styrene	104	8.260	8.260	(1.077)	2169528	150.000	163.97
66 Bromoform	173	8.410	8.410	(1.097)	588916	150.000	158.11
67 Isopropylbenzene	105	8.560	8.560	(1.116)	2877359	150.000	159.55
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	873933	150.000	141.84
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	936681	150.000	150.82
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	386546	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	702545	150.000	163.33
73 n-Propylbenzene	91	8.912	8.912	(0.922)	3370402	150.000	157.41
74 Bromobenzene	156	8.803	8.803	(0.911)	952608	150.000	150.20
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2529726	150.000	159.93
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	2083510	150.000	148.28
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	2540753	150.000	158.62
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	2055293	150.000	158.74
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2613455	150.000	157.03
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	2819238	150.000	163.65
82 p-Isopropyltoluene	119	9.650	9.650	(0.999)	2542764	150.000	164.71
83 1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	1650440	150.000	156.79
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	1766146	150.000	153.76
86 Benzyl Chloride	91	9.808	9.808	(1.279)	1650494	150.000	151.23
87 n-Butylbenzene	91	9.992	9.992	(1.034)	2293126	150.000	150.43
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1672283	150.000	154.25
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	149691	150.000	151.78
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1094701	150.000	160.01
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	466452	150.000	150.10
92 Naphthalene	128	11.540	11.540	(1.194)	2498440	150.000	160.50
93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	991236	150.000	151.28
M 94 1,2-Dichloroethylene (total)	96				1273785	300.000	
M 95 Xylenes (total)	106				3631641	450.000	
141 Cyclohexane	56	4.117	4.117	(0.986)	682728	150.000	148.87
138 Freon TF	101	1.910	1.910	(0.457)	517229	150.000	157.53
147 Methylcyclohexane	55	5.377	5.377	(1.083)	1358300	150.000	159.57(A)
146 Methyl Acetate	43	2.224	2.224	(0.533)	301298	150.000	149.70
148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	962267	3000.00	3107.07
149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	514966	3000.00	3183.89

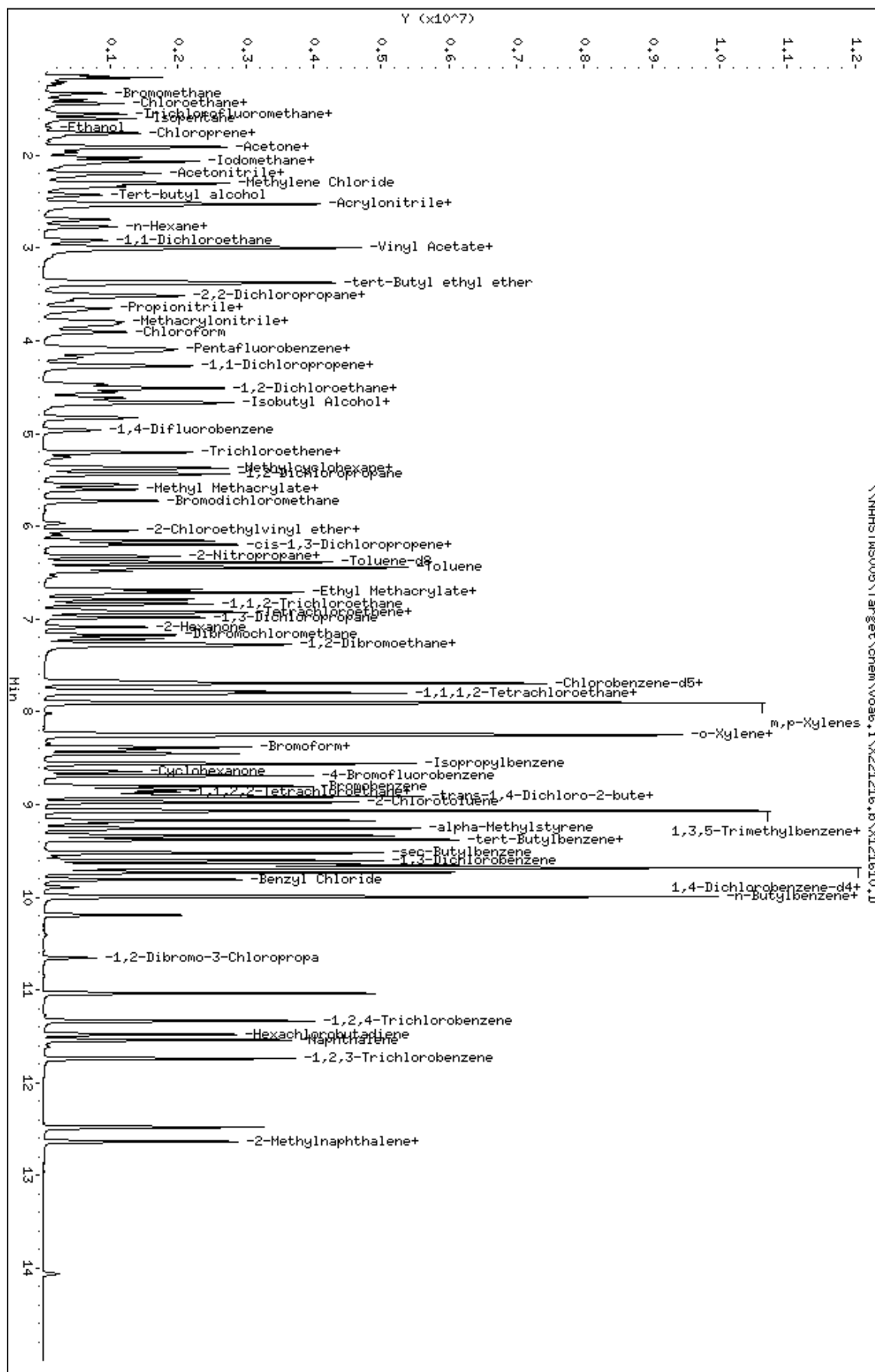
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.



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 Sample Info: WSTD150\WSTD150\119;
 Purge Volume: 5.0
 Column phase: DB624

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

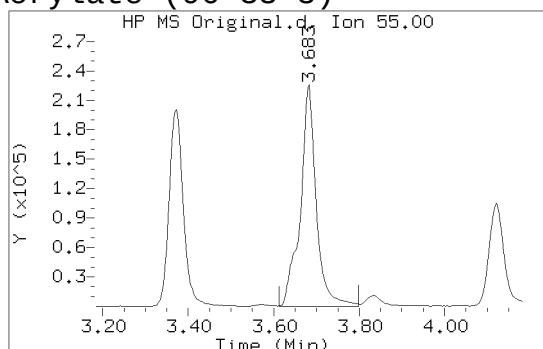


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Inj Date : 16-DEC-2022 14:46
InstruID : voa6.i
LabSampID : VSTD150

Methyl Acrylate (96-33-3)

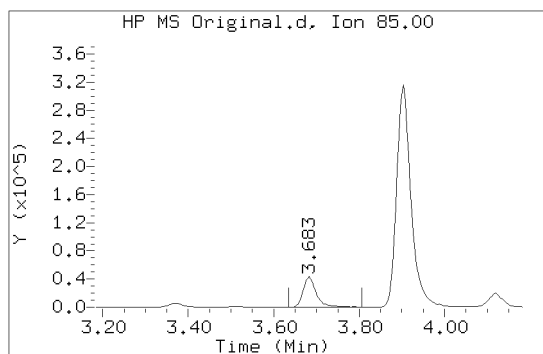
BEFORE

MASS
55
AREA
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HEIGHT
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27-Dec-2022
16:04
linh



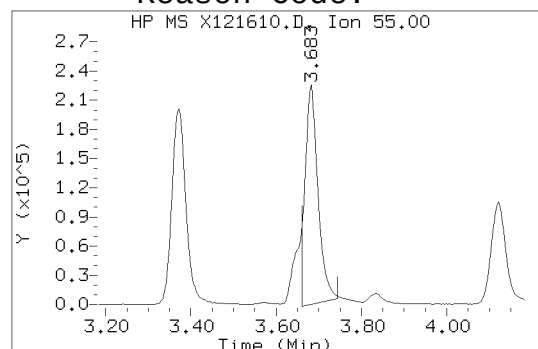
BEFORE

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27-Dec-2022
16:04
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pham



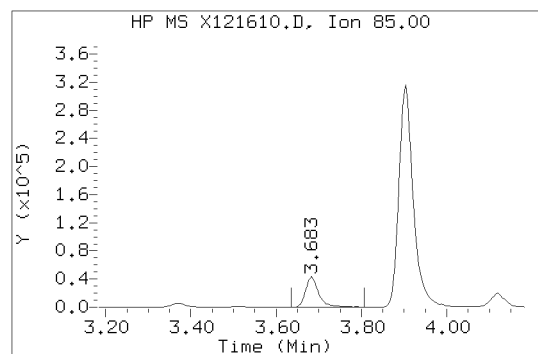
AFTER

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55
AREA
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HEIGHT
225684
27-Dec-2022
16:06
linh



AFTER

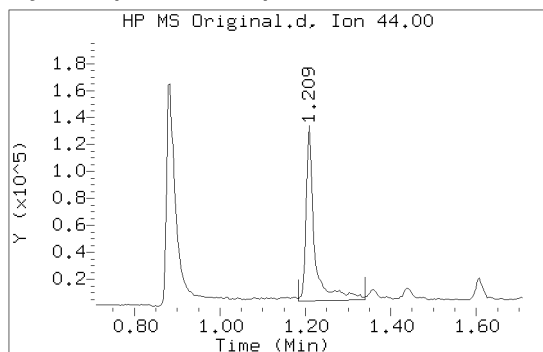
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AREA
94462
HEIGHT
43984
27-Dec-2022
16:06
linh
pham



Acetaldehyde (75-07-0)

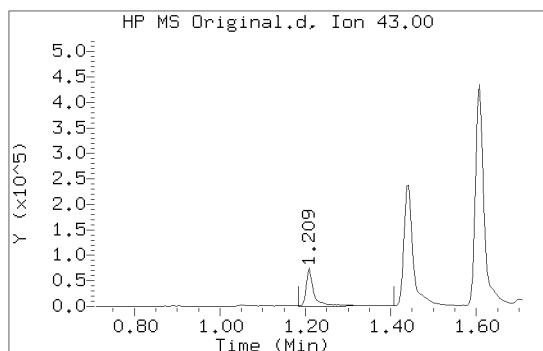
BEFORE

MASS
44
AREA
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HEIGHT
129645
27-Dec-2022
16:04
linh
pham



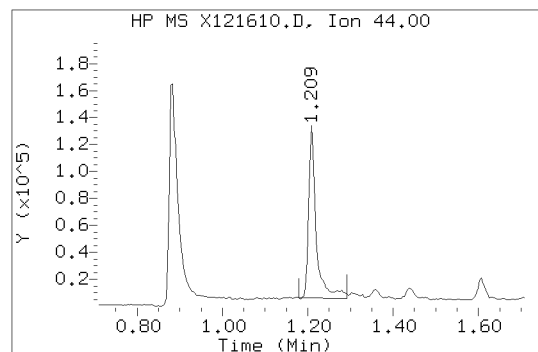
BEFORE

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AREA
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16:04
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pham



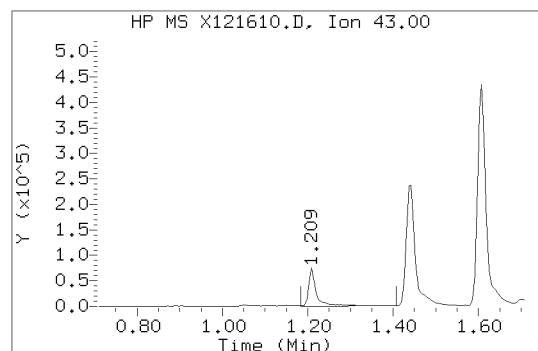
AFTER

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27-Dec-2022
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AFTER

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HEIGHT
74827
27-Dec-2022
16:06
linh
pham

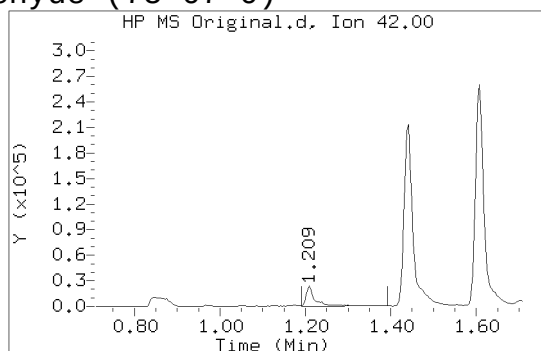


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Inj Date : 16-DEC-2022 14:46
InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

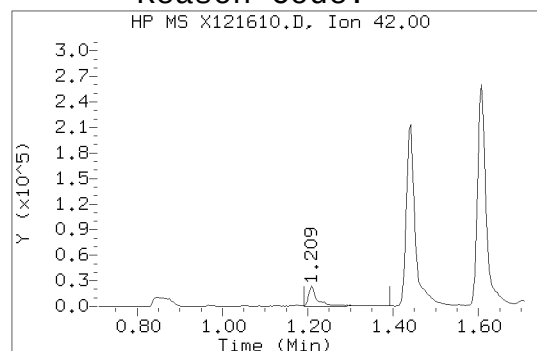
BEFORE

MASS
42
AREA
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HEIGHT
23932
27-Dec-2022
16:04
linh
pham



AFTER

MASS
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AREA
36089
HEIGHT
23932
27-Dec-2022
16:06
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 1
 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D
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 Inj Date : 16-DEC-2022 15:07
 Operator : PC Inst ID: voa6.i
 Smp Info : VSTD200;VSTD200;1;10;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X221216.b\8260W.m
 Meth Date : 27-Dec-2022 16:07 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:46 Cal File: X121610.D
 Als bottle: 12 Calibration Sample, Level: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		450847	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		179280	4000.00	4350.17(A)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		646265	200.000	208.86(A)
25 Methacrylonitrile	41		3.814	3.814	(0.913)		619479	200.000	194.04
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		2146631	4000.00	4233.12(A)
13 Acetonitrile	39		2.195	2.195	(0.525)		854153	2000.00	2081.63(A)
14 Allyl Chloride	41		2.195	2.195	(0.525)		1558053	200.000	199.36
4 Propionitrile	54		3.649	3.649	(0.873)		933721	2000.00	2029.71(A)
136 n-Hexane	57		2.768	2.768	(0.663)		726173	200.000	223.70(A)
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)		324976	200.000	217.73(A)
194 Acetaldehyde	44		1.209	1.209	(0.289)		205547	800.000	780.23(M)
23 Chloroprene	53		1.767	1.767	(0.423)		315248	200.000	205.64(A)
145 alpha-Methylstyrene	118		9.261	9.261	(0.958)		1880547	200.000	211.54(A)
200 Dimethyl Disulfide	94		6.198	6.198	(0.808)		1929723	200.000	206.22(A)
139 Diethyl ether	59		1.752	1.752	(0.419)		595638	200.000	197.72
130 Ethyl Acetate	43		3.649	3.649	(0.873)		706790	200.000	200.90(A)
40 Methyl Methacrylate	41		5.602	5.602	(1.341)		643877	200.000	209.45(A)
49 Ethyl Methacrylate	69		6.715	6.715	(1.353)		735246	200.000	222.23(A)
132 n-Butanol	56		5.253	5.253	(1.258)		297334	4000.00	3955.86
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		219995	400.000	401.77(A)



150 Allyl alcohol	57	2.768	2.768 (0.663)	726173	4000.00	4146.79(A)
166 1,2,3-Trimethylbenzene	105	9.733	9.733 (1.007)	3701988	200.000	191.61

Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 2
Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
131 Methyl Acrylate	55	3.683	3.683	(0.882)	646827	200.000	211.32(AM)
162 Butyl acrylate	55	8.252	8.252	(1.076)	2063916	200.000	228.52(A)
2 Dichlorodifluoromethane	85	0.969	0.969	(0.232)	635808	200.000	200.44(A)
3 Chloromethane	50	1.074	1.074	(0.257)	865151	200.000	204.92(A)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	827926	200.000	210.21(A)
6 Bromomethane	94	1.329	1.329	(0.318)	666705	200.000	217.67(A)
7 Chloroethane	64	1.396	1.396	(0.334)	548415	200.000	200.06(A)
8 Trichlorofluoromethane	101	1.553	1.553	(0.372)	1173529	200.000	212.92(A)
9 Acrolein	56	1.437	1.437	(0.344)	125874	400.000	399.54
10 Acetone	43	1.970	1.970	(0.472)	514105	400.000	406.50(A)
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	704695	200.000	205.94(A)
15 Iodomethane	142	2.022	2.022	(0.484)	2193685	400.000	398.07
16 Acrylonitrile	53	2.528	2.528	(0.605)	504850	400.000	435.02(A)
17 Methylene Chloride	84	2.299	2.299	(0.550)	863945	200.000	184.07
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	2237559	200.000	199.78
19 Carbon Disulfide	76	2.067	2.067	(0.495)	3829593	400.000	427.76(A)
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	785444	200.000	205.10(A)
21 Vinyl Acetate	43	2.993	2.993	(0.716)	4210603	400.000	428.26(A)
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	1342786	200.000	199.79
24 2-Butanone	43	3.570	3.570	(0.855)	555896	400.000	404.77(AH)
26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	1175128	200.000	205.93(A)
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	927934	200.000	199.10
28 Chloroform	83	3.904	3.904	(0.935)	1523082	200.000	202.19(A)
29 Bromochloromethane	128	3.791	3.791	(0.908)	510028	200.000	199.87
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	856027	200.000	198.23
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	1257327	200.000	210.37(A)
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	1048877	200.000	210.29(A)
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	1153034	200.000	200.31(A)
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	1051824	200.000	197.48
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	919752	200.000	200.47(A)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	702551	50.0000	
37 Benzene	78	4.511	4.511	(0.909)	3321582	200.000	197.98
38 Trichloroethene	130	5.205	5.205	(1.048)	973709	200.000	204.62(A)
39 Bromodichloromethane	83	5.722	5.722	(1.153)	1264834	200.000	200.88(A)
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	729151	400.000	407.06(A)
42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	895211	200.000	200.59(A)
44 Dibromomethane	93	5.550	5.550	(1.118)	600170	200.000	197.85
45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	1447268	400.000	391.63
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	1583645	200.000	214.16(A)
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	691386	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.832)	3061758	200.000	179.21
50 Toluene	91	6.445	6.445	(0.840)	3757557	200.000	196.62
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	1365007	200.000	222.44(A)
52 2-Hexanone	43	7.086	7.086	(0.924)	1026898	400.000	408.42(A)
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	736981	200.000	192.23
54 1,3-Dichloropropane	76	6.982	6.982	(0.910)	1482067	200.000	196.39
55 Dibromochloromethane	129	7.176	7.176	(0.936)	1128140	200.000	203.88(A)
56 Tetrachloroethene	164	6.929	6.929	(0.903)	798932	200.000	202.05(A)
57 1,2-Dibromoethane	107	7.259	7.259	(0.946)	970608	200.000	202.48(A)
58 1-Chlorohexane	55	7.698	7.698	(1.550)	746326	200.000	219.81(A)
59 Chlorobenzene	112	7.694	7.694	(1.003)	2696715	200.000	198.95
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	1028448	200.000	203.88(A)



61 Ethylbenzene	106	7.799	7.799 (1.017)	1312165	200.000	205.50(A)
62 m,p-Xylenes	106	7.904	7.904 (1.030)	3401207	400.000	413.22(A)



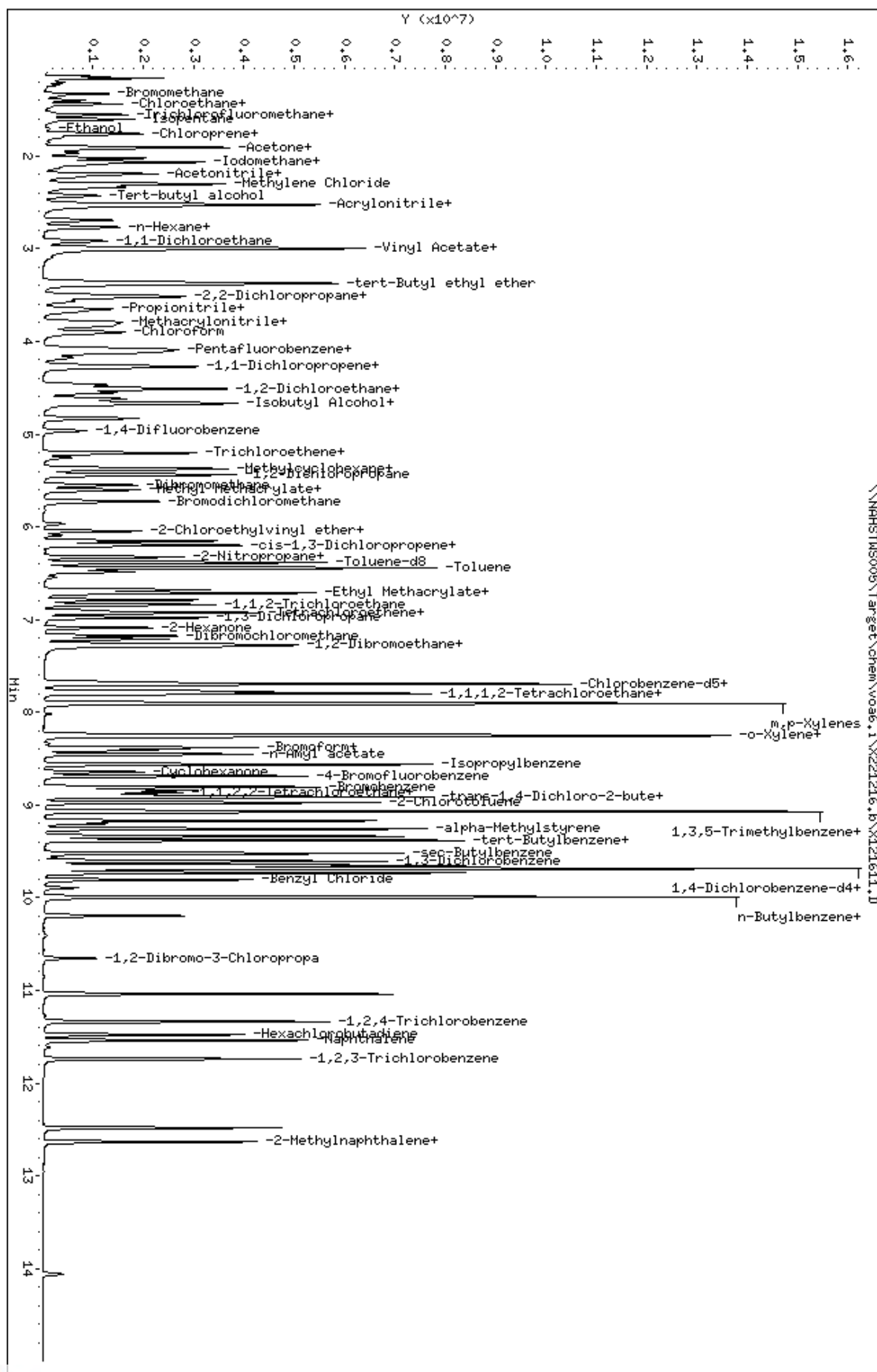
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121611.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
63 o-Xylene	106	8.241	8.241	(1.074)	1701245	200.000	209.41(A)
64 Styrene	104	8.260	8.260	(1.077)	3030858	200.000	222.58(A)
66 Bromoform	173	8.410	8.410	(1.096)	809693	200.000	211.22(A)
67 Isopropylbenzene	105	8.563	8.563	(1.116)	4031708	200.000	217.22(A)
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	1186926	200.000	185.61
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.132)	1277239	200.000	199.81
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	401196	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	864931	200.000	193.75(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	4694239	200.000	211.23(A)
74 Bromobenzene	156	8.807	8.807	(0.911)	1313631	200.000	199.57
75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	3532485	200.000	215.17(A)
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	2866849	200.000	196.59
77 4-Chlorotoluene	91	9.070	9.070	(0.938)	3546402	200.000	213.32(A)
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	2865820	200.000	213.26(A)
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	3599947	200.000	208.40(A)
81 sec-Butylbenzene	105	9.523	9.523	(0.985)	3952917	200.000	221.08(A)
82 p-Isopropyltoluene	119	9.651	9.651	(0.998)	3537904	200.000	220.81(A)
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	2282597	200.000	208.93(A)
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	2442324	200.000	204.86(A)
86 Benzyl Chloride	91	9.808	9.808	(1.279)	2286488	200.000	202.63(A)
87 n-Butylbenzene	91	9.995	9.995	(1.034)	3216534	200.000	202.68(A)
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	2296902	200.000	204.14(A)
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.102)	205063	200.000	200.30(A)
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1524896	200.000	214.75(A)
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	654615	200.000	200.27(A)
92 Naphthalene	128	11.540	11.540	(1.194)	3413593	200.000	211.29(A)
93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.214)	1363987	200.000	200.56(A)
M 94 1,2-Dichloroethylene (total)	96				1713378	400.000	
M 95 Xylenes (total)	106				5102452	600.000	
141 Cyclohexane	56	4.121	4.121	(0.987)	943314	200.000	203.60(A)
138 Freon TF	101	1.910	1.910	(0.457)	714577	200.000	215.91(A)
147 Methylcyclohexane	55	5.377	5.377	(1.083)	1829310	200.000	212.71(A)
146 Methyl Acetate	43	2.224	2.224	(0.533)	408781	200.000	201.49(A)
148 Tert-Butyl alcohol	59	2.431	2.431	(0.582)	1308623	4000.00	4191.87(A)
149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	697543	4000.00	4278.45(A)

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.





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 Sample Info: WSTD200\WSTD200\1101
 Purge Volume: 5.0
 Column phase: DB624

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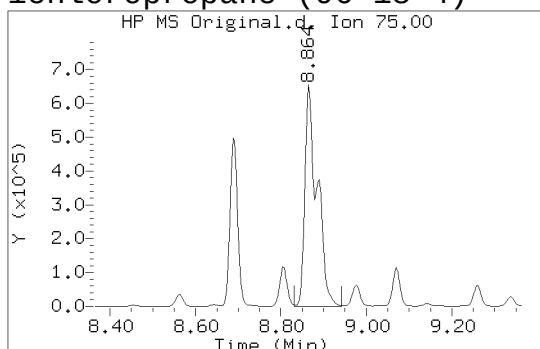
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 Operator: PC
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LabSampID : VSTD200

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

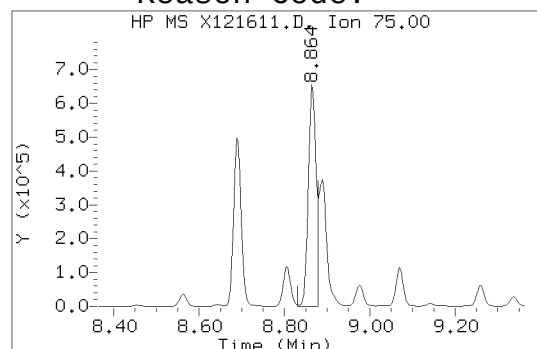
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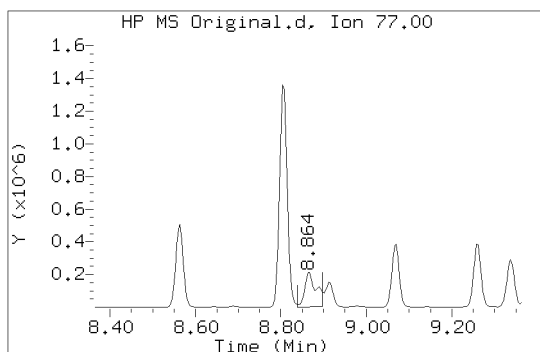
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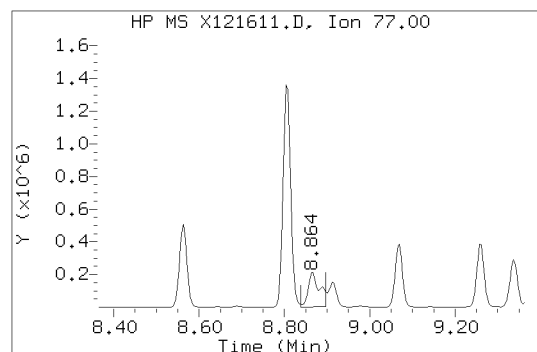
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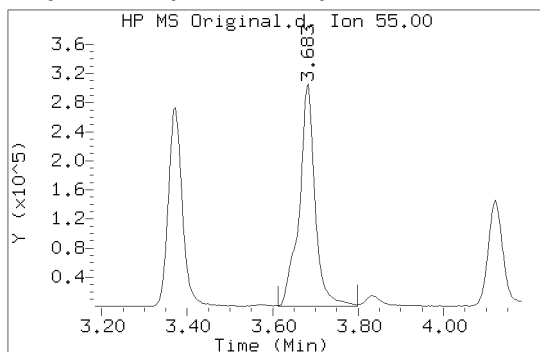
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Methyl Acrylate (96-33-3)

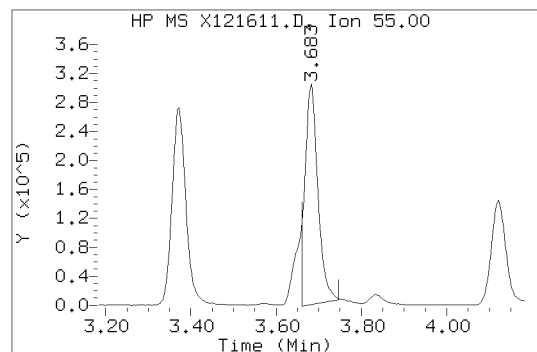
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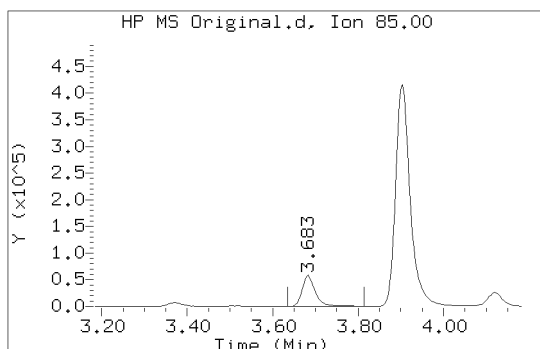
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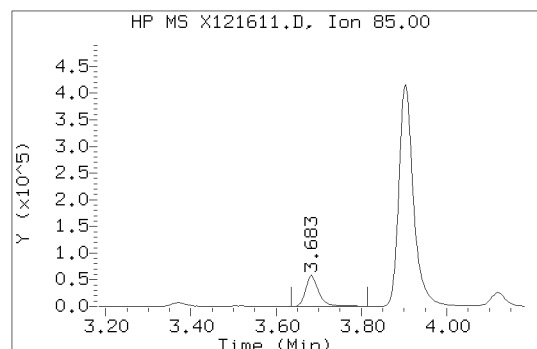
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AFTER

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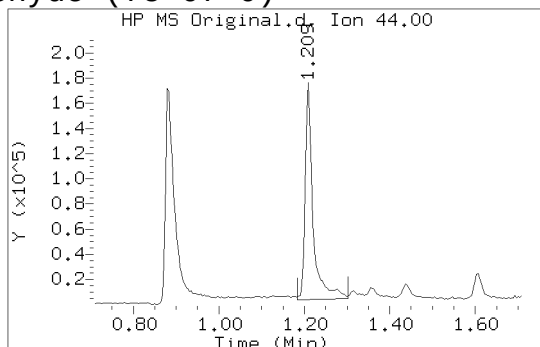


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Inj Date : 16-DEC-2022 15:07
InstruID : voa6.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

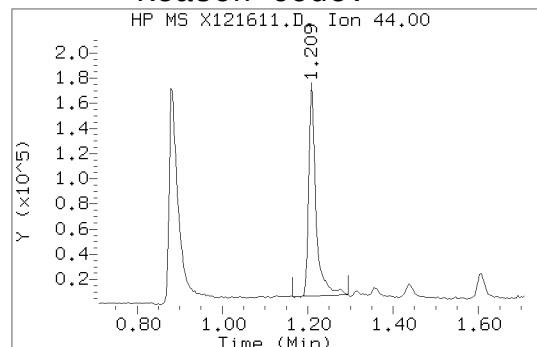
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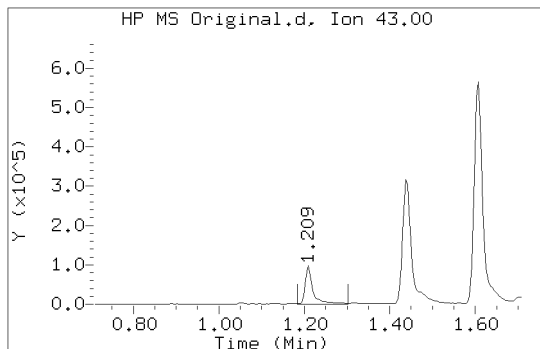
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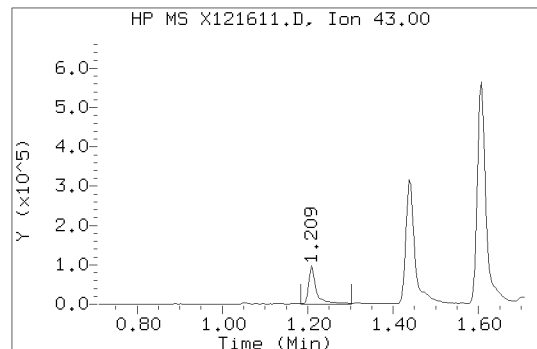
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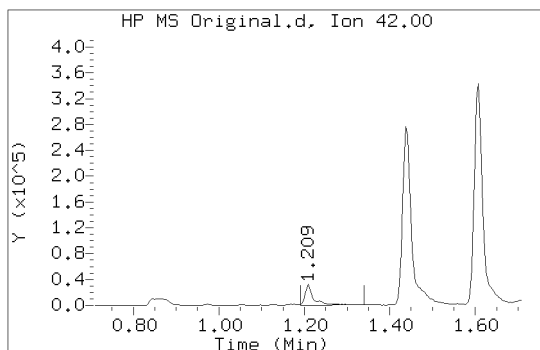
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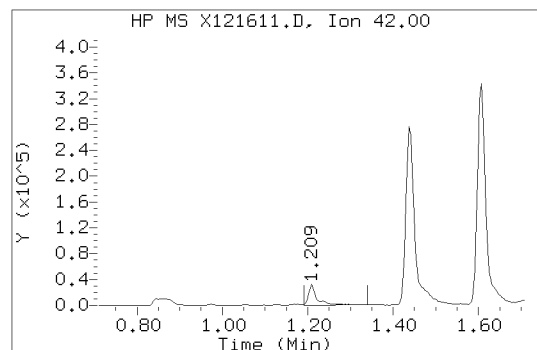
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AFTER

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27-Dec-2022
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linh
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 Report Date: 27-Dec-2022 16:07

ALS Laboratory Group

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 Inj Date : 16-DEC-2022 15:49
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 Smp Info : CCV;CCV;2;;ICV
 Misc Info : V6;WATER;0;1;
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 Cal Date : 16-DEC-2022 15:07 Cal File: X121611.D
 Als bottle: 14 QC Sample: METHSPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 08260V6.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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)		457291	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		42711	1021.77	1021.76
140 1,3-Butadiene	54		1.164	1.160	(0.279)		155959	49.6927	49.69
25 Methacrylonitrile	41		3.818	3.814	(0.914)		151341	46.7389	46.73
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		505171	982.151	982.15
13 Acetonitrile	39		2.194	2.195	(0.525)		197937	475.590	475.59
14 Allyl Chloride	41		2.194	2.195	(0.525)		375064	47.3168	47.31
4 Propionitrile	54		3.649	3.649	(0.873)		227186	486.896	486.89
136 n-Hexane	57		2.768	2.768	(0.663)		183599	55.7620	55.76
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)		71513	49.7372	49.73
194 Acetaldehyde	44		1.209	1.209	(0.289)		52697	179.814	179.81(M)
23 Chloroprene	53		1.767	1.767	(0.423)		74243	47.7493	47.74(M)
145 alpha-Methylstyrene	118		9.257	9.261	(0.958)		428317	51.3094	51.30
200 Dimethyl Disulfide	94		6.198	6.198	(0.808)		437905	48.5791	48.57
139 Diethyl ether	59		1.752	1.752	(0.419)		142672	46.6930	46.69
130 Ethyl Acetate	43		3.653	3.649	(0.874)		171211	47.9808	47.98
40 Methyl Methacrylate	41		5.602	5.602	(1.341)		148777	47.7146	47.71
49 Ethyl Methacrylate	69		6.712	6.715	(1.352)		142471	44.0730	44.07
132 n-Butanol	56		5.257	5.253	(1.258)		56842	974.397	974.39
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		61534	108.502	108.50



166 1,2,3-Trimethylbenzene	105	9.729	9.733 (1.007)	846843	46.6777	46.67
131 Methyl Acrylate	55	3.683	3.683 (0.882)	162555	52.3594	52.35



Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 2
Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
162 Butyl acrylate	55	8.249	8.252 (1.076)		417137	47.9449	47.94
2 Dichlorodifluoromethane	85	0.972	0.969 (0.233)		166984	52.1924	52.19
3 Chloromethane	50	1.077	1.074 (0.258)		207623	50.1741	50.17
5 Vinyl Chloride	62	1.141	1.141 (0.273)		202038	50.5766	50.57
6 Bromomethane	94	1.336	1.329 (0.320)		153541	50.7886	50.78
7 Chloroethane	64	1.400	1.396 (0.335)		134354	48.3213	48.32
8 Trichlorofluoromethane	101	1.557	1.553 (0.373)		285144	51.0083	51.00
9 Acrolein	56	1.441	1.437 (0.345)		29687	95.0682	95.06
10 Acetone	43	1.970	1.970 (0.472)		130747	101.899	101.89
11 1,1-Dichloroethene	96	1.913	1.910 (0.458)		171246	49.3414	49.34
15 Iodomethane	142	2.026	2.022 (0.485)		440111	96.4856	96.48
16 Acrylonitrile	53	2.532	2.528 (0.606)		119393	101.430	101.42
17 Methylene Chloride	84	2.299	2.299 (0.550)		226449	47.5675	47.56
18 Methyl tert-butyl ether	73	2.532	2.532 (0.606)		546711	48.1256	48.12
19 Carbon Disulfide	76	2.067	2.067 (0.495)		894433	98.5011	98.50
20 trans-1,2-Dichloroethene	96	2.528	2.524 (0.605)		194181	49.9917	49.99
21 Vinyl Acetate	43	2.997	2.993 (0.717)		1044658	104.756	104.75
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)		328530	48.1931	48.19
24 2-Butanone	43	3.574	3.570 (0.856)		132931	97.7407	97.74(H)
26 2,2-Dichloropropane	77	3.507	3.507 (0.839)		295126	50.9895	50.98
27 cis-1,2-Dichloroethene	96	3.525	3.522 (0.844)		228100	48.2538	48.25
28 Chloroform	83	3.904	3.904 (0.935)		370227	48.4556	48.45
29 Bromochloromethane	128	3.795	3.791 (0.908)		122310	47.2570	47.25
\$ 30 Dibromofluoromethane	113	4.095	4.095 (0.980)		223563	50.9182	50.91
31 1,1,1-Trichloroethane	97	4.080	4.080 (0.977)		304118	50.1673	50.16
32 1,1-Dichloropropene	75	4.279	4.279 (0.862)		254008	52.1195	52.11
33 1,2-Dichloroethane	62	4.552	4.552 (0.917)		278558	49.5262	49.52
34 Carbon Tetrachloride	117	4.264	4.260 (0.859)		255322	49.0600	49.06
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470 (1.070)		233432	50.3661	50.36
* 36 1,4-Difluorobenzene	114	4.965	4.965 (1.000)		686467	50.0000	
37 Benzene	78	4.511	4.511 (0.909)		824422	50.2921	50.29
38 Trichloroethene	130	5.205	5.205 (1.048)		238429	51.2807	51.28
39 Bromodichloromethane	83	5.726	5.722 (1.153)		302844	49.2265	49.22
41 2-Chloroethylvinyl ether	63	6.048	6.044 (1.218)		182363	104.194	104.19
42 1,2-Dichloropropane	63	5.433	5.437 (1.094)		216322	49.6089	49.60
44 Dibromomethane	93	5.550	5.550 (1.118)		145797	49.1915	49.19
45 4-Methyl-2-Pentanone	43	6.325	6.326 (0.825)		334751	94.0316	94.03
46 cis-1,3-Dichloropropene	75	6.153	6.153 (1.239)		376514	52.1120	52.11
* 47 Chlorobenzene-d5	117	7.667	7.671 (1.000)		666040	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385 (0.833)		814721	49.5021	49.50
50 Toluene	91	6.445	6.445 (0.841)		905906	49.2085	49.20
51 trans-1,3-Dichloropropene	75	6.682	6.682 (1.346)		314805	52.5028	52.50
52 2-Hexanone	43	7.086	7.086 (0.924)		234303	96.7356	96.73
53 1,1,2-Trichloroethane	83	6.839	6.839 (0.892)		176962	47.9147	47.91
54 1,3-Dichloropropane	76	6.981	6.982 (0.911)		347689	47.8282	47.82
55 Dibromochloromethane	129	7.176	7.176 (0.936)		263907	49.5095	49.50
56 Tetrachloroethene	164	6.929	6.929 (0.904)		194246	50.9965	50.99
57 1,2-Dibromoethane	107	7.259	7.259 (0.947)		232024	50.2468	50.24
58 1-Chlorohexane	55	7.694	7.698 (1.550)		172462	51.9860	51.98
59 Chlorobenzene	112	7.694	7.694 (1.003)		631235	48.3416	48.34
60 1,1,1,2-Tetrachloroethane	131	7.772	7.776 (1.014)		236254	48.6176	48.61
61 Ethylbenzene	106	7.799	7.799 (1.017)		315635	51.3153	51.31



62 m,p-Xylenes	106	7.904	7.904 (1.031)	794307	100.175	100.17
63 o-Xylene	106	8.241	8.241 (1.075)	389371	49.7531	49.75



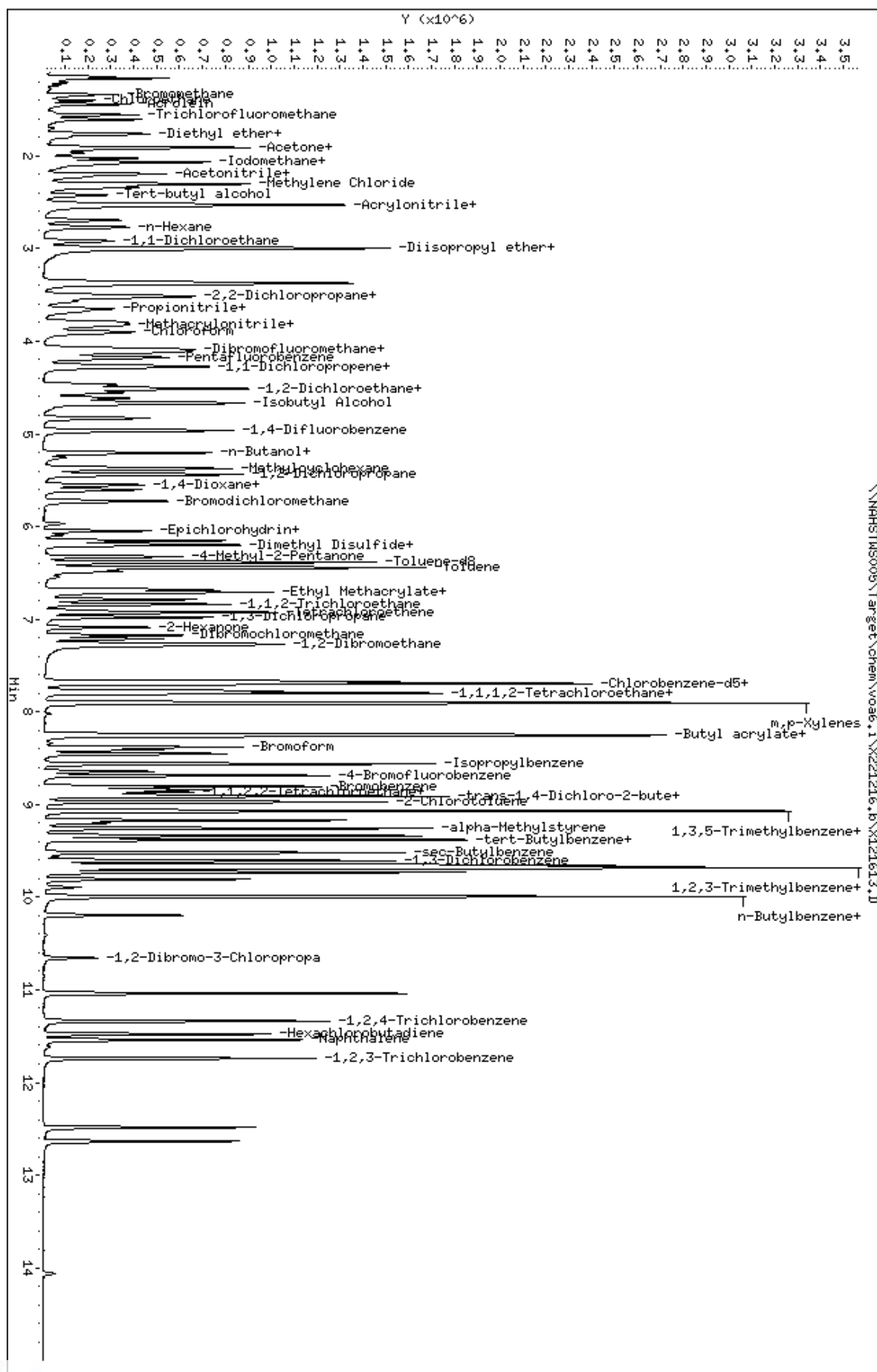
Data File: \\NAHSTWS005\Target\chem\voa6.i\X221216.b\X121613.D Page 3
 Report Date: 27-Dec-2022 16:07

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
64 Styrene	104	8.260	8.260	(1.077)	683415	52.0997	52.09
66 Bromoform	173	8.410	8.410	(1.097)	182169	49.3304	49.33
67 Isopropylbenzene	105	8.560	8.563	(1.116)	931467	52.0964	52.09
68 1,1,2,2-Tetrachloroethane	83	8.837	8.841	(0.915)	280729	46.7506	46.75
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	307493	49.9836	49.98
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.666	(1.000)	376748	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	201551	48.0786	48.07(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1099273	52.6761	52.67
74 Bromobenzene	156	8.803	8.807	(0.911)	306751	49.6271	49.62
75 1,3,5-Trimethylbenzene	105	9.066	9.070	(0.938)	806374	52.3068	52.30
76 2-Chlorotoluene	91	8.972	8.976	(0.929)	683941	49.9441	49.94
77 4-Chlorotoluene	91	9.069	9.070	(0.939)	800114	51.2527	51.25
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	666730	52.8346	52.83
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	832541	51.3249	51.32
81 sec-Butylbenzene	105	9.519	9.523	(0.985)	909529	54.1700	54.16
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	823827	54.7550	54.75
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	525438	51.2160	51.21
84 1,4-Dichlorobenzene	146	9.681	9.684	(1.002)	556610	49.7188	49.71
87 n-Butylbenzene	91	9.995	9.995	(1.035)	735043	50.6672	50.66
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	523296	49.5268	49.52
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	48516	50.5353	50.53
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	364475	54.6601	54.66
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	170927	57.7383	57.73
92 Naphthalene	128	11.544	11.540	(1.195)	799121	52.6729	52.67
93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	337140	52.7917	52.79
M 94 1,2-Dichloroethylene (total)	96				422281	98.2454	98.24
M 95 Xylenes (total)	106				1183678	149.928	149.92
141 Cyclohexane	56	4.121	4.121	(0.987)	238664	51.7326	51.73
138 Freon TF	101	1.913	1.910	(0.458)	177599	52.9072	52.90
147 Methylcyclohexane	55	5.377	5.377	(1.083)	427649	50.8929	50.89
146 Methyl Acetate	43	2.228	2.224	(0.533)	99131	48.1755	48.17
148 Tert-Butyl alcohol	59	2.423	2.431	(0.580)	311463	983.641	983.64
149 Isopropyl Alcohol	45	2.090	2.093	(0.500)	170003	1028.04	1028.03

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.





\\NAHSTMS0005\Target\chem\voa6.1\X221216.b\X121613.D

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 Sample Info: CCV;CCV;2;ICV
 Purge Volume: 5.0
 Column phase: DB624

Instrument: voa6.1
 Operator: PC
 Column diameter: 0.18

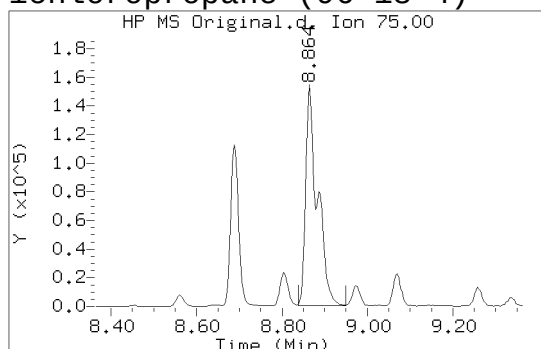


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 LabSampID : ICV

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

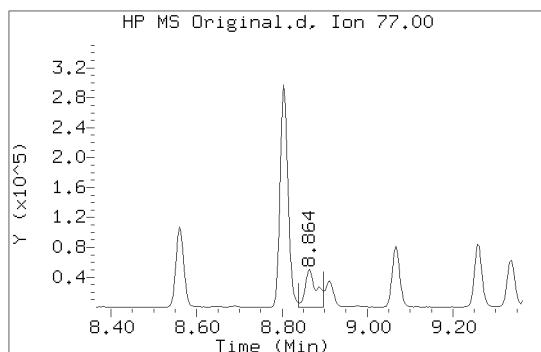
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27-Dec-2022
16:04
linh



BEFORE

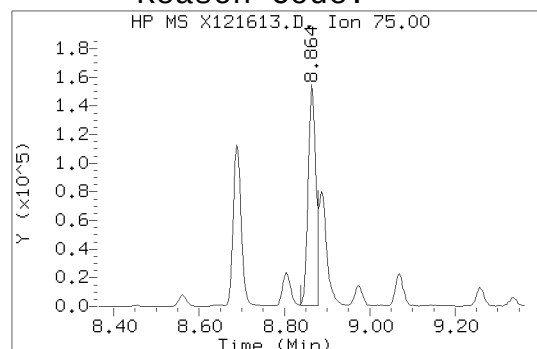
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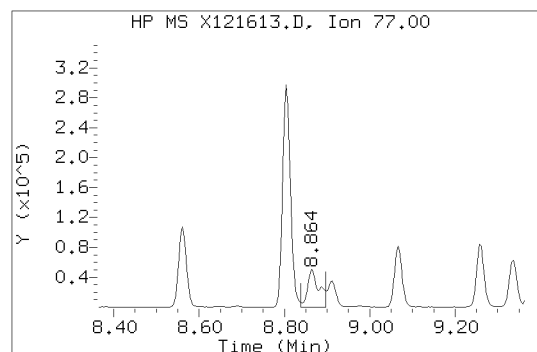
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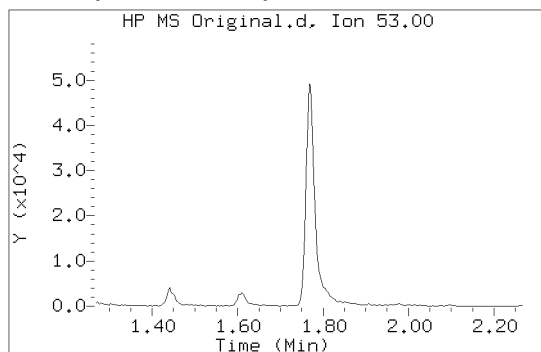
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Chloroprene (126-99-8)

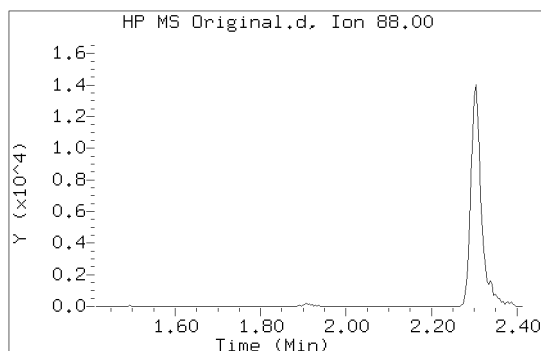
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BEFORE

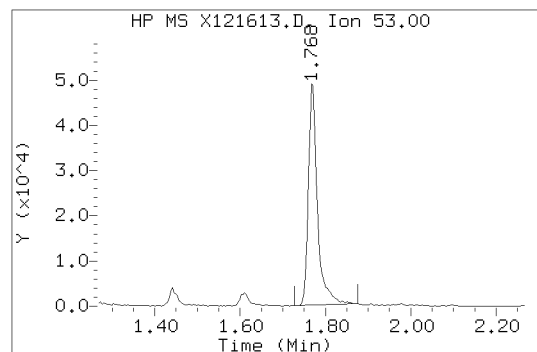
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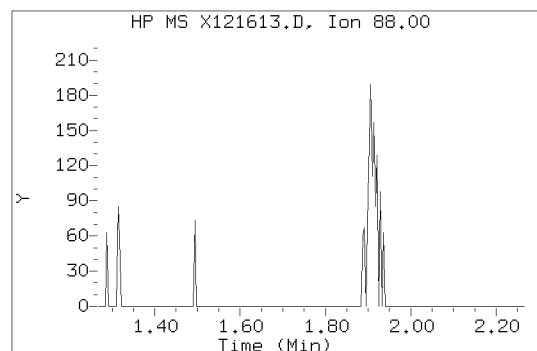
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AFTER

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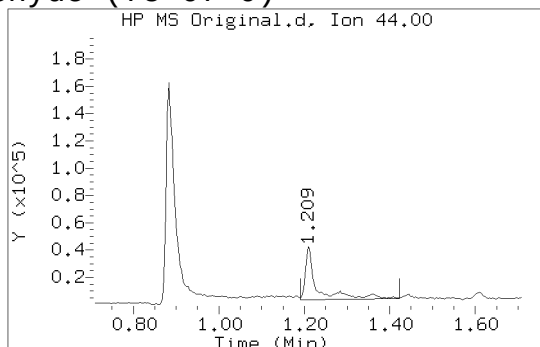


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Inj Date : 16-DEC-2022 15:49
InstruID : voa6.i
LabSampID : ICV

Acetaldehyde (75-07-0)

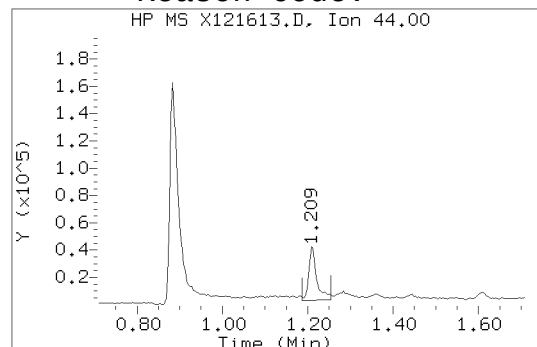
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MASS
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27-Dec-2022
16:04
linh
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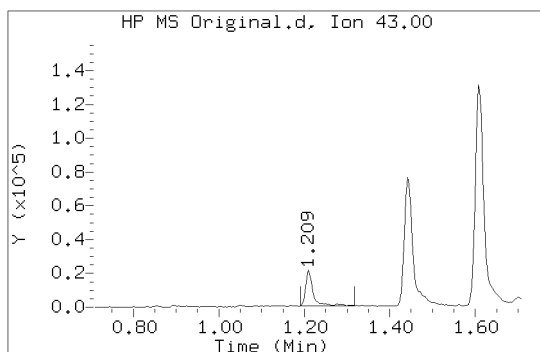
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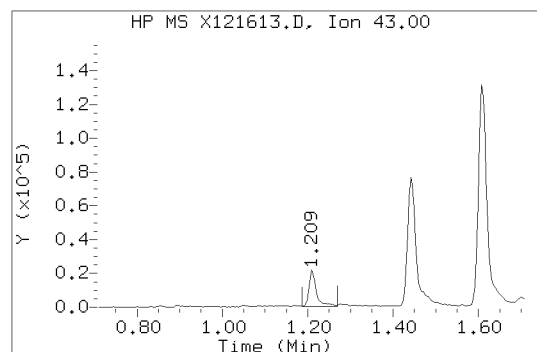
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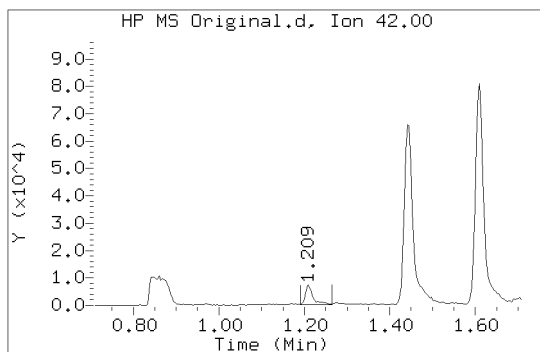
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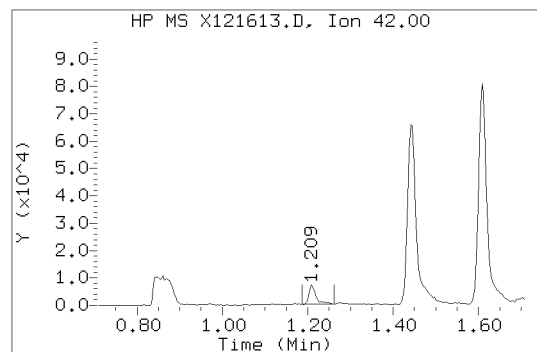
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pham



AFTER

MASS
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AREA
8550
HEIGHT
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27-Dec-2022
16:06
linh
pham





Raw Data VOA6 426067

Volatiles by EPA 8260

Workorder
HS23010794

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

01/27/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D Page 1
 Report Date: 18-Jan-2023 12:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 18-JAN-2023 11:06
 Operator : PC Inst ID: voa6.i
 Smp Info : BFB;BFB;3;;BFB
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\bfb.m
 Meth Date : 01-Dec-2022 12:59 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	FINAL				
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb					CAS #: 460-00-4				
8.687	8.889	(0.000)	95	62312			0.00-	100.00	100.00
8.687	8.889	(0.000)	50	12562			15.00-	40.00	20.16
8.687	8.889	(0.000)	75	31304			30.00-	60.00	50.24
8.687	8.889	(0.000)	96	3715			5.00-	9.00	5.96
8.687	8.889	(0.000)	173	307			0.00-	2.00	0.55
8.687	8.889	(0.000)	174	55672			50.00-	0.00	89.34
8.687	8.889	(0.000)	175	4556			5.00-	9.00	8.18
8.687	8.889	(0.000)	176	52904			95.00-	101.00	95.03
8.687	8.889	(0.000)	177	3924			5.00-	9.00	7.42



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.16
75	30.00 - 60.00% of mass 95	50.24
96	5.00 - 9.00% of mass 95	5.96
173	Less than 2.00% of mass 174	0.49 (0.55)
174	Greater than 50.00% of mass 95	89.34
175	5.00 - 9.00% of mass 174	7.31 (8.18)
176	95.00 - 101.00% of mass 174	84.90 (95.03)
177	5.00 - 9.00% of mass 176	6.30 (7.42)

Data File: X011801.D
 Spectrum: Scan 2159 (8.68), Background Scan 2154
 Location of Maximum: 95.00
 Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
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37.00	3305	72.00	635	106.60	279	144.90	121
38.00	2527	73.00	3196	108.80	60	145.80	95
44.10	110	74.00	9996	110.70	152	147.60	76
45.00	588	75.00	31304	111.80	202	148.00	83
45.80	82	75.90	2963	113.00	86	154.60	110
47.20	1109	76.90	295	115.90	291	154.90	128
47.80	518	78.00	74	116.80	253	156.80	139
48.90	2654	78.90	2212	117.70	498	158.90	66
50.00	12562	80.90	2252	118.80	397	160.80	86
51.00	3501	81.90	480	126.70	57	172.60	381
56.00	76	86.80	2832	127.80	323	172.90	307
57.00	2444	87.90	2849	128.70	209	173.90	55672
57.90	16	90.90	87	129.70	252	174.90	4556
59.90	675	91.90	1838	130.80	81	175.90	52904
61.00	3376	92.90	2551	134.80	132	176.90	3924
62.00	3210	94.00	7352	136.60	72	178.00	86
63.00	2266	95.00	62312	137.20	150	186.00	218
64.10	227	96.00	3715	140.90	777		
66.80	134	103.10	73	141.90	113		
68.00	6053	103.90	393	142.90	658		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D

Page 1

Date : 18-JAN-2023 11:06

Client ID: BFB

Instrument: voa6.i

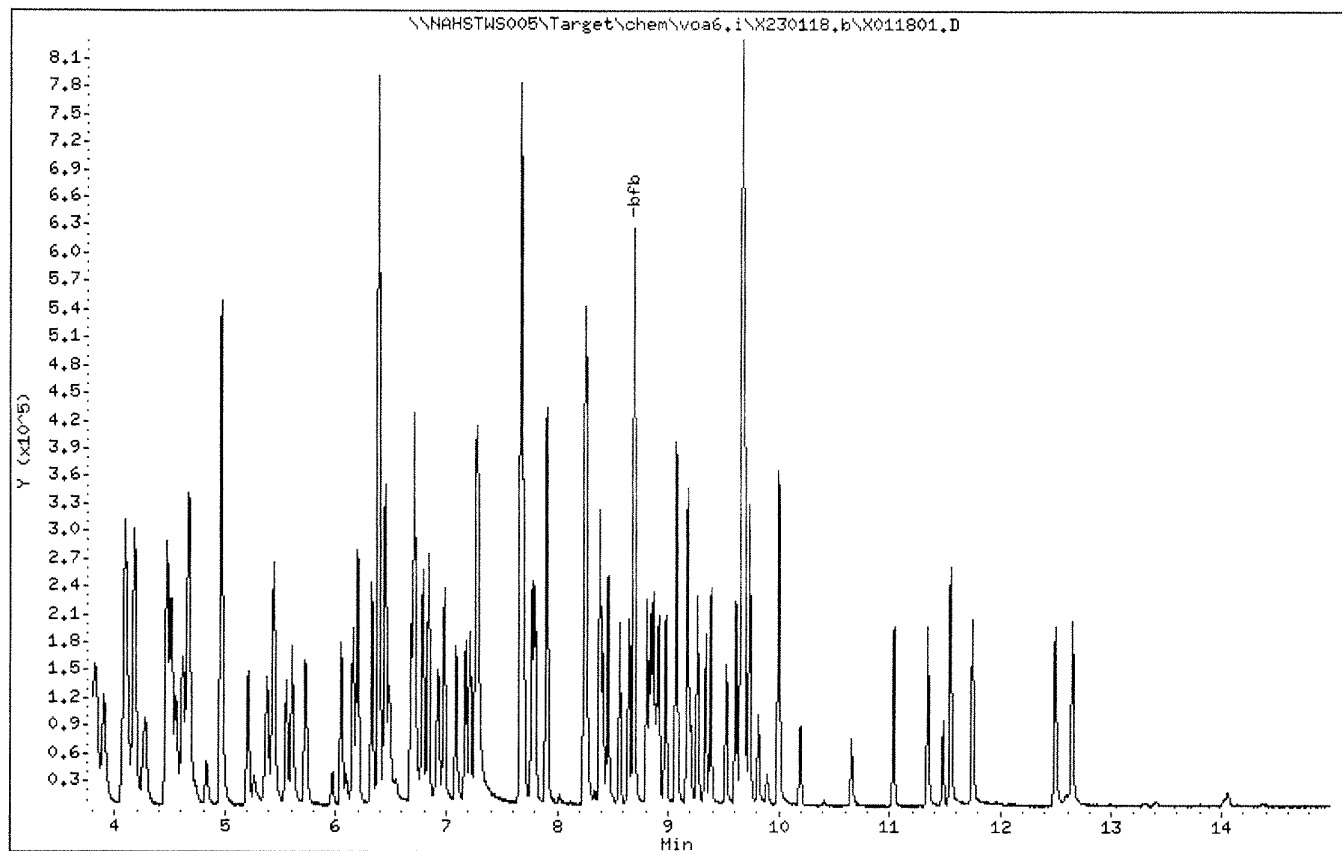
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Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D

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Date : 18-JAN-2023 11:06

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

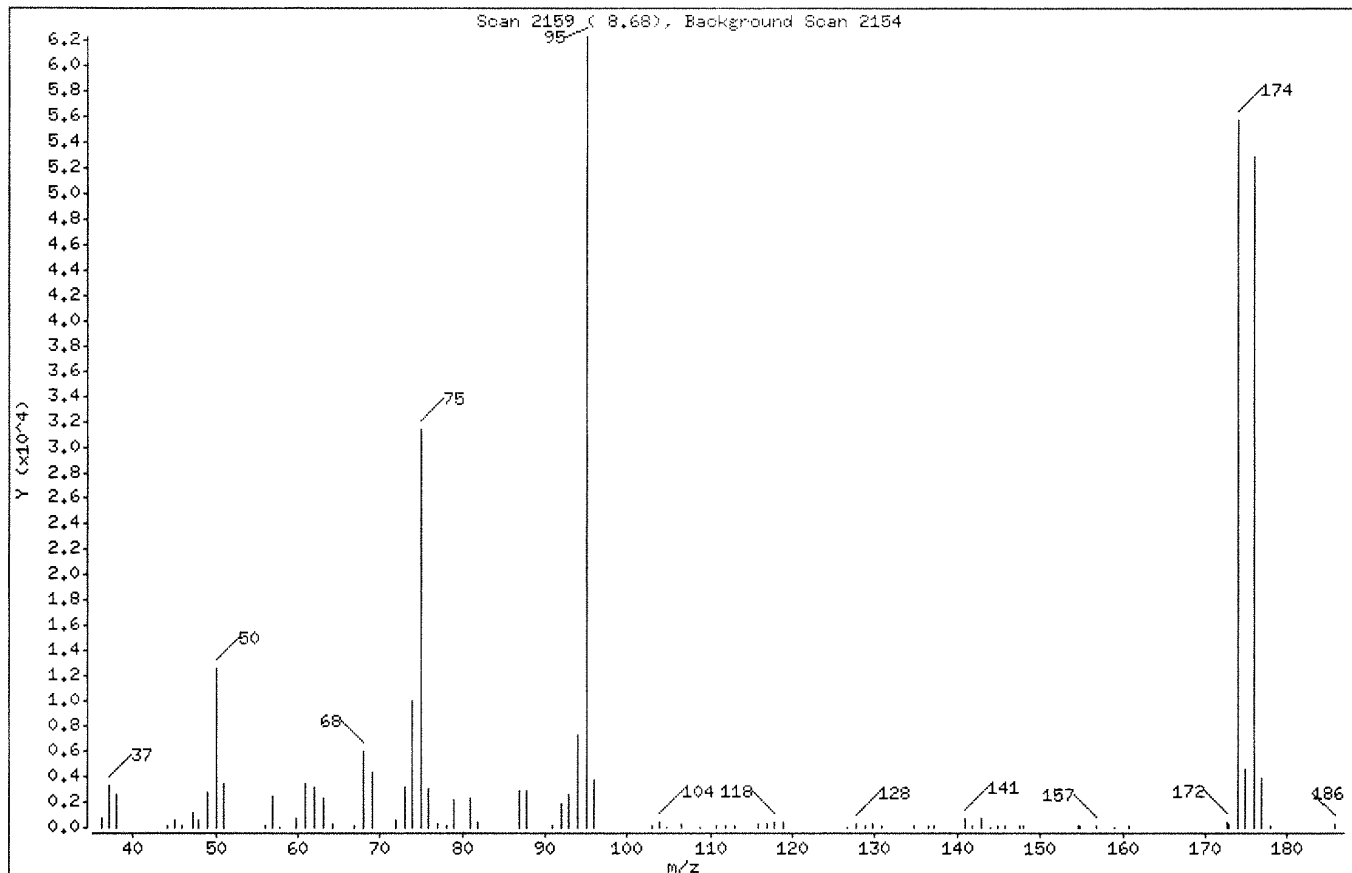
Volume Injected (uL): 2.0

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	20.16
75	30.00 - 60.00% of mass 95	50.24
96	5.00 - 9.00% of mass 95	5.96
173	Less than 2.00% of mass 174	0.49 (0.55)
174	Greater than 50.00% of mass 95	89.34
175	5.00 - 9.00% of mass 174	7.31 (8.18)
176	95.00 - 101.00% of mass 174	84.90 (95.03)
177	5.00 - 9.00% of mass 176	6.30 (7.42)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D

Page 3

Date : 18-JAN-2023 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: X011801.D

Spectrum: Scan 2159 (8.68), Background Scan 2154

Location of Maximum: 95.00

Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.10	666	69.00	4263	104.80	30	143.90	52
37.00	3305	72.00	635	106.60	279	144.90	121
38.00	2527	73.00	3196	108.80	60	145.80	95
44.10	110	74.00	9996	110.70	152	147.60	76
45.00	588	75.00	31304	111.80	202	148.00	83

45.80	82	75.90	2963	113.00	86	154.60	110
47.20	1109	76.90	295	115.90	291	154.90	128
47.80	518	78.00	74	116.80	253	156.80	139
48.90	2654	78.90	2212	117.70	498	158.90	66
50.00	12562	80.90	2252	118.80	397	160.80	86

51.00	3501	81.90	480	126.70	57	172.60	381
56.00	76	86.80	2832	127.80	323	172.90	307
57.00	2444	87.90	2849	128.70	209	173.90	55672
57.90	16	90.90	87	129.70	252	174.90	4556
59.90	675	91.90	1838	130.80	81	175.90	52904

61.00	3376	92.90	2551	134.80	132	176.90	3924
62.00	3210	94.00	7352	136.60	72	178.00	86
63.00	2266	95.00	62312	137.20	150	186.00	218
64.10	227	96.00	3715	140.90	777		
66.80	134	103.10	73	141.90	113		

68.00	6053	103.90	393	142.90	658		



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011801.D
Inj Date : 18-JAN-2023 11:06
InstruID : voa6.i
LabSampID : BFB

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011803.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011803.D
 Lab Smp Id: CCV Client Smp ID: CCV
 Inj Date : 18-JAN-2023 11:48
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV;CCV;2;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)	489424	50.0000		
135 1,4-Dioxane	88		5.598	5.598	(1.340)	46942	1000.00	1049.25	
140 1,3-Butadiene	54		1.160	1.160	(0.278)	146309	50.0000	43.55	
25 Methacrylonitrile	41		3.814	3.814	(0.913)	174531	50.0000	50.36	
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)	586950	1000.00	1066.22	
13 Acetonitrile	39		2.194	2.194	(0.525)	216646	500.000	486.36	
14 Allyl Chloride	41		2.194	2.194	(0.525)	409229	50.0000	48.23	
4 Propionitrile	54		3.645	3.645	(0.873)	245492	500.000	491.58	
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)	79972	50.0000	53.18	
194 Acetaldehyde	44		1.209	1.209	(0.289)	67587	200.000	220.09	
23 Chloroprene	53		1.767	1.767	(0.423)	70567	50.0000	42.40(M)	
130 Ethyl Acetate	43		3.649	3.649	(0.873)	208091	50.0000	54.48	
40 Methyl Methacrylate	41		5.602	5.602	(1.341)	174845	50.0000	52.39	
49 Ethyl Methacrylate	69		6.708	6.708	(1.351)	177350	50.0000	52.03	
139 Diethyl ether	59		1.752	1.752	(0.419)	147672	50.0000	45.15	
142 Tetrahydrofuran	42		3.840	3.840	(0.919)	64460	100.000	106.13	
156 Diisopropyl ether	45		2.997	2.997	(0.717)	602379	50.0000	47.44	
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)	868613	50.0000	43.57	
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)	160887	50.0000	47.02	
3 Chloromethane	50		1.074	1.074	(0.257)	197643	50.0000	44.87	



5 Vinyl Chloride	62	1.141	1.141 (0.273)	192196	50.0000	44.95
6 Bromomethane	94	1.336	1.336 (0.320)	136489	50.0000	42.48

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011803.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	127931	50.0000	42.99
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	266667	50.0000	44.57
9 Acrolein	56	1.441	1.441	(0.345)	27093	100.000	81.48
10 Acetone	43	1.970	1.970	(0.472)	148497	100.000	108.13
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	164342	50.0000	44.24
15 Iodomethane	142	2.022	2.022	(0.484)	429078	100.000	88.48
16 Acrylonitrile	53	2.528	2.528	(0.605)	131992	100.000	104.77
17 Methylene Chloride	84	2.299	2.299	(0.550)	219621	50.0000	43.10
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	580541	50.0000	47.74
19 Carbon Disulfide	76	2.067	2.067	(0.495)	860805	100.000	88.57
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	184592	50.0000	44.40
21 Vinyl Acetate	43	2.993	2.993	(0.716)	1159587	100.000	108.64
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	328053	50.0000	44.96
24 2-Butanone	43	3.570	3.570	(0.855)	155742	100.000	106.70
26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	286311	50.0000	46.21
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	221783	50.0000	43.83
28 Chloroform	83	3.904	3.904	(0.935)	373028	50.0000	45.61
29 Bromochloromethane	128	3.788	3.788	(0.907)	120171	50.0000	43.38
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	222773	50.0000	47.39
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	289952	50.0000	44.69
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	243664	50.0000	47.42
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	304343	50.0000	51.32
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	235794	50.0000	42.97
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	250267	50.0000	50.45
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	723703	50.0000	
37 Benzene	78	4.507	4.507	(0.908)	807196	50.0000	46.70
38 Trichloroethene	130	5.205	5.205	(1.048)	221791	50.0000	45.24
39 Bromodichloromethane	83	5.726	5.726	(1.153)	302821	50.0000	46.69
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	237285	100.000	128.59
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	217128	50.0000	47.23
44 Dibromomethane	93	5.553	5.553	(1.119)	146615	50.0000	46.92
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	404653	100.000	108.68
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	375201	50.0000	49.25
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	696562	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	848410	50.0000	49.29
50 Toluene	91	6.445	6.445	(0.841)	888559	50.0000	46.15
51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	327289	50.0000	51.77
52 2-Hexanone	43	7.083	7.083	(0.924)	289924	100.000	114.45
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	182377	50.0000	47.21
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	367873	50.0000	48.38
55 Dibromochloromethane	129	7.173	7.173	(0.935)	267957	50.0000	48.06
56 Tetrachloroethene	164	6.925	6.925	(0.903)	174876	50.0000	43.89
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	240796	50.0000	49.86
58 1-Chlorohexane	55	7.694	7.694	(1.550)	161130	50.0000	46.07
59 Chlorobenzene	112	7.694	7.694	(1.003)	623465	50.0000	45.65
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	238993	50.0000	47.02
61 Ethylbenzene	106	7.799	7.799	(1.017)	302984	50.0000	47.10
62 m,p-Xylenes	106	7.904	7.904	(1.031)	775386	100.000	93.50
63 o-Xylene	106	8.241	8.241	(1.075)	382264	50.0000	46.70
64 Styrene	104	8.260	8.260	(1.077)	686373	50.0000	50.03
66 Bromoform	173	8.410	8.410	(1.097)	194509	50.0000	50.36
67 Isopropylbenzene	105	8.560	8.560	(1.116)	893634	50.0000	47.79



68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	314357	50.0000	47.65
\$ 69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	332267	50.0000	51.64



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011803.D Page 3
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	413903	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	231981	50.0000	50.36(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1066657	50.0000	46.52
74 Bromobenzene	156	8.803	8.803	(0.911)	311504	50.0000	45.87
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	806932	50.0000	47.64
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	700662	50.0000	46.57
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	825983	50.0000	48.16
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	632476	50.0000	45.62
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	841522	50.0000	47.22
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	854852	50.0000	46.34
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	792103	50.0000	47.92
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	538443	50.0000	47.77
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	583310	50.0000	47.42
87 n-Butylbenzene	91	9.995	9.995	(1.035)	698648	50.0000	44.07
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	549480	50.0000	47.33
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	53893	50.0000	51.09
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	368136	50.0000	50.25
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	134386	50.0000	41.46
92 Naphthalene	128	11.540	11.540	(1.194)	890909	50.0000	53.45
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	345239	50.0000	49.20
M 94 1,2-Dichloroethylene (total)	96				406375	100.000	(a)
141 Cyclohexane	56	4.118	4.118	(0.986)	204295	50.0000	41.62
138 Freon TF	101	1.910	1.910	(0.457)	147042	50.0000	40.92
147 Methylcyclohexane	55	5.377	5.377	(1.083)	452124	50.0000	51.03
146 Methyl Acetate	43	2.224	2.224	(0.533)	110075	50.0000	49.98
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	378966	1000.00	1118.24
149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	206959	1000.00	1169.35

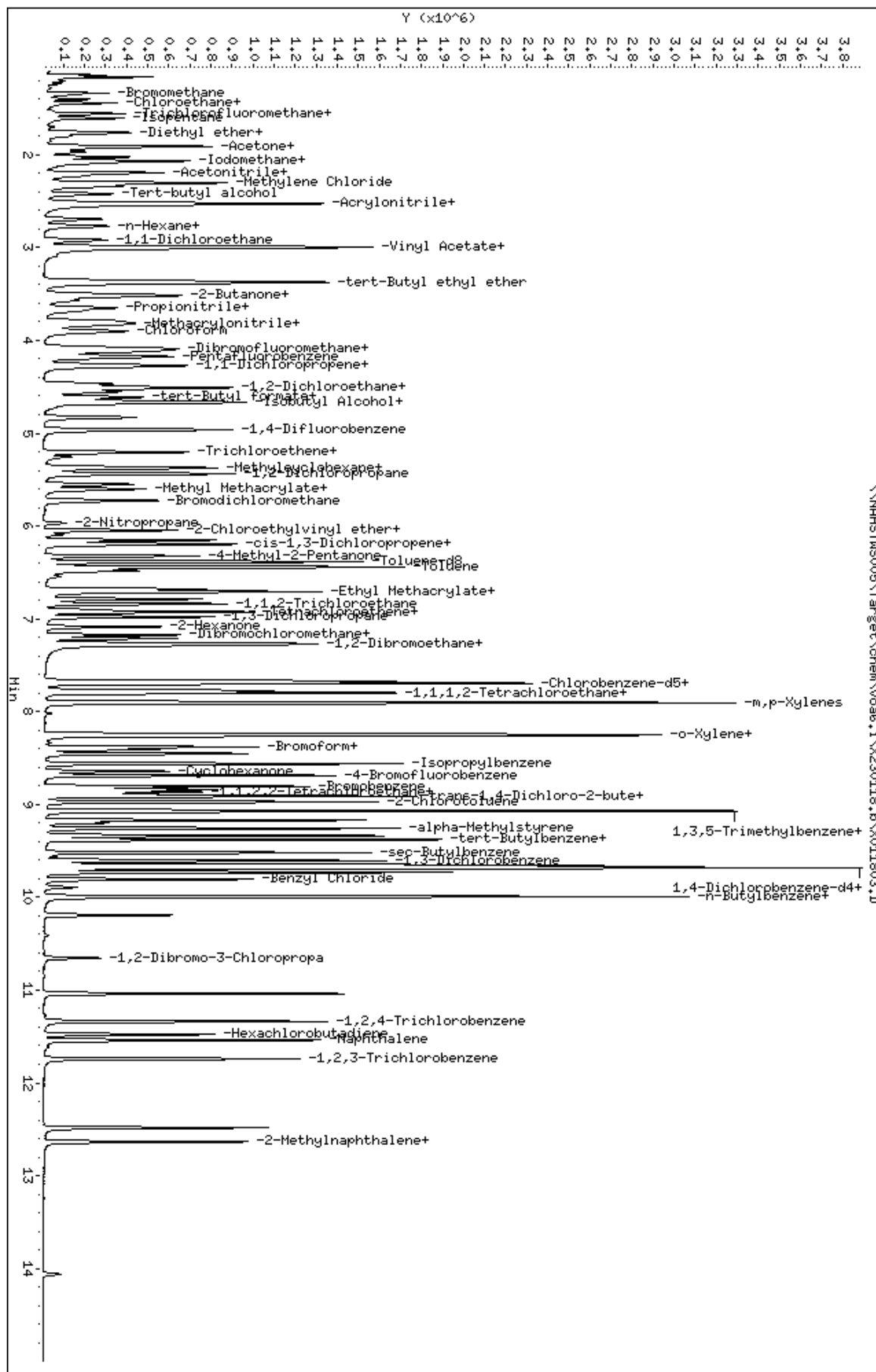
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011803.D
 Date : 18-JAN-2023 11:48
 Client ID: CCV
 Sample Info: CCV\CCV121;
 Purge Volume: 5.0
 Column phase: DB624

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

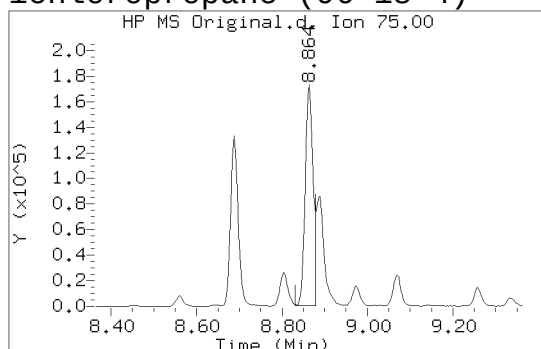


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Inj Date : 18-JAN-2023 11:48
InstruID : voa6.i
LabSampID : CCV

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

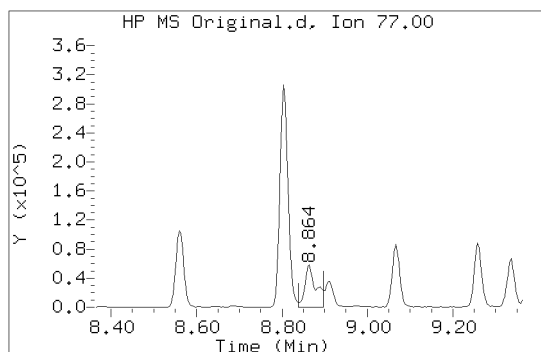
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MASS
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231981
HEIGHT
173029
25-Jan-2023
10:05
linh



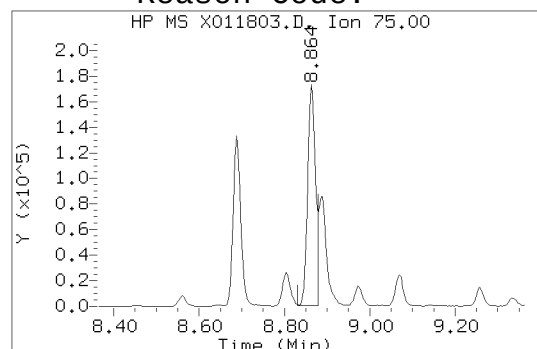
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MASS
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HEIGHT
58467
25-Jan-2023
10:05
linh
pham



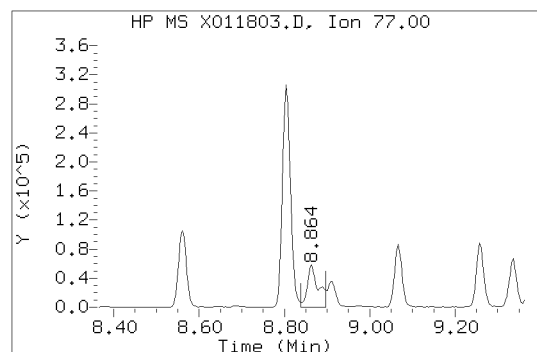
AFTER

MASS
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AREA
231981
HEIGHT
173029
25-Jan-2023
10:05
linh



AFTER

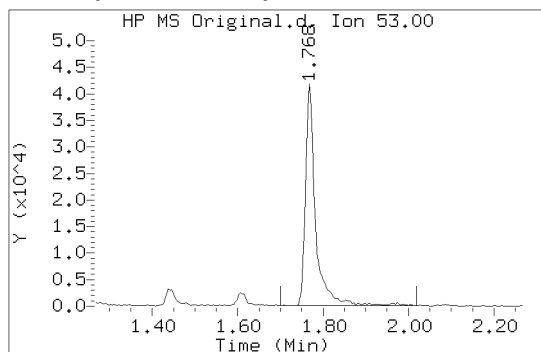
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HEIGHT
58467
25-Jan-2023
10:05
linh
pham



Chloroprene (126-99-8)

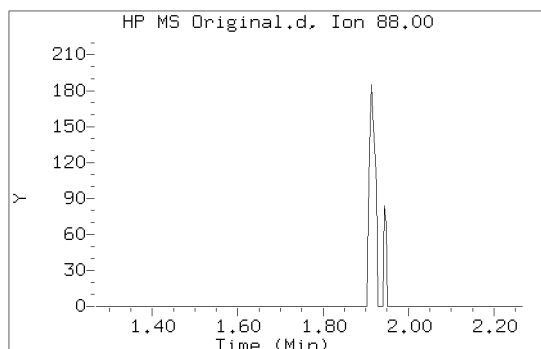
BEFORE

MASS
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AREA
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HEIGHT
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25-Jan-2023
10:05
linh
pham



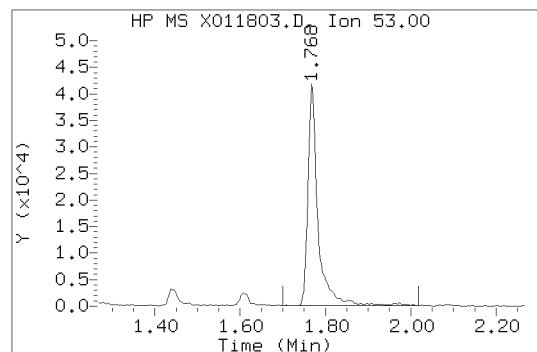
BEFORE

MASS
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25-Jan-2023
10:05
linh
pham



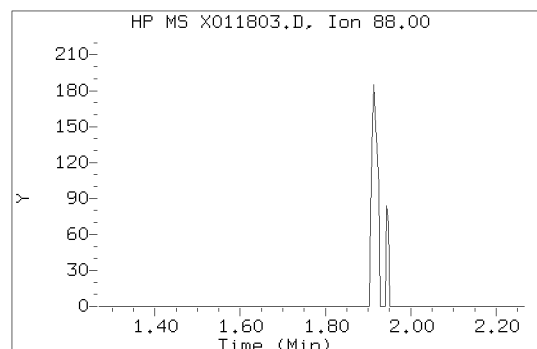
AFTER

MASS
53
AREA
70567
HEIGHT
41782
25-Jan-2023
10:05
linh
pham



AFTER

MASS
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AREA
0
HEIGHT
0
25-Jan-2023
10:05
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011804.D Page 1
 Report Date: 18-Jan-2023 21:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011804.D
 Lab Smp Id: CCB Client Smp ID: CCB
 Inj Date : 18-JAN-2023 12:09
 Operator : PC Inst ID: voa6.i
 Smp Info : CCB;CCB;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\nahstws005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 18-Jan-2023 17:04 pcabasca Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7051

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Uf}/\text{Vo}) * 1 * \text{CpndVariable}$

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.177	(1.000)	547114	50.0000	
\$ 30 Dibromofluoromethane	113	4.099	4.095	(0.982)	239447	45.5649	45.56
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	268428	48.4189	48.41
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	768486	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	671866	50.0000	
\$ 48 Toluene-d8	98	6.386	6.385	(0.833)	893916	53.8429	53.84
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	302063	48.6768	48.67
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	341638	50.0000	



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011805.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011805.D
 Lab Smp Id: VLCSW-230118 Client Smp ID: VLCSW-230118
 Inj Date : 18-JAN-2023 12:30
 Operator : PC Inst ID: voa6.i
 Smp Info : VLCSW-230118;VLCSW-230118;3;;LCS
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		473146	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		19933	460.873	460.87(a)
140 1,3-Butadiene	54		1.164	1.160	(0.279)		64452	19.8480	19.84
25 Methacrylonitrile	41		3.821	3.814	(0.915)		71540	21.3535	21.35
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		258525	485.780	485.78
13 Acetonitrile	39		2.194	2.194	(0.525)		93699	217.590	217.58
14 Allyl Chloride	41		2.194	2.194	(0.525)		174469	21.2728	21.27
4 Propionitrile	54		3.649	3.645	(0.873)		108874	225.515	225.51(a)
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)		31877	22.0843	22.08
194 Acetaldehyde	44		1.209	1.209	(0.289)		71526	243.145	243.14
23 Chloroprene	53		1.771	1.767	(0.424)		29893	18.5814	18.58(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		91604	24.8112	24.81
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		75429	23.3804	23.38
49 Ethyl Methacrylate	69		6.708	6.708	(1.351)		75091	22.6980	22.69
139 Diethyl ether	59		1.752	1.752	(0.419)		63171	19.9815	19.98
142 Tetrahydrofuran	42		3.840	3.840	(0.919)		26312	42.9830	42.98
156 Diisopropyl ether	45		2.993	2.997	(0.716)		252405	20.5645	20.56
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)		385496	20.9467	20.94
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		58421	17.9081	17.90
3 Chloromethane	50		1.074	1.074	(0.257)		82950	20.7316	20.73



5 Vinyl Chloride	62	1.141	1.141 (0.273)	81246	19.6569	19.65
6 Bromomethane	94	1.336	1.336 (0.320)	61143	20.6326	20.63

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011805.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	55014	19.1231	19.12
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	120961	20.9131	20.91
9 Acrolein	56	1.445	1.441	(0.346)	11891	38.5325	38.53
10 Acetone	43	1.970	1.970	(0.472)	69517	52.3463	52.34(M)
11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	72740	20.2564	20.25
15 Iodomethane	142	2.022	2.022	(0.484)	172450	39.4774	39.47
16 Acrylonitrile	53	2.532	2.528	(0.606)	57328	47.0707	47.07
17 Methylene Chloride	84	2.299	2.299	(0.550)	101585	20.6237	20.62
18 Methyl tert-butyl ether	73	2.532	2.528	(0.606)	247454	21.0528	21.05
19 Carbon Disulfide	76	2.067	2.067	(0.495)	387529	41.2472	41.24
20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	80463	20.0209	20.02
21 Vinyl Acetate	43	2.993	2.993	(0.716)	491828	47.6668	47.66
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	145321	20.6032	20.60
24 2-Butanone	43	3.578	3.570	(0.856)	63690	46.8847	46.88
26 2,2-Dichloropropane	77	3.506	3.503	(0.839)	129540	21.6309	21.63
27 cis-1,2-Dichloroethene	96	3.529	3.521	(0.845)	96286	19.6864	19.68
28 Chloroform	83	3.904	3.904	(0.935)	162386	20.5410	20.54
29 Bromochloromethane	128	3.791	3.788	(0.908)	52354	19.5502	19.55
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	222171	48.8989	48.89
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	131770	21.0084	21.00
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	112059	22.4675	22.46
33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	131619	22.8661	22.86
34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	107958	20.2698	20.26
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	259864	54.1697	54.16
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	702531	50.0000	
37 Benzene	78	4.511	4.507	(0.909)	351961	20.9797	20.97
38 Trichloroethene	130	5.205	5.205	(1.048)	99963	21.0082	21.00
39 Bromodichloromethane	83	5.726	5.726	(1.153)	128152	20.3545	20.35
41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	88983	49.6783	49.67
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	93347	20.9177	20.91
44 Dibromomethane	93	5.553	5.553	(1.119)	64169	21.1554	21.15
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	169847	47.5247	47.52
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	156653	21.1860	21.18
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	668637	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	822274	49.7669	49.76
50 Toluene	91	6.445	6.445	(0.841)	389135	21.0556	21.05
51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	132682	21.6226	21.62
52 2-Hexanone	43	7.086	7.083	(0.924)	123626	50.8427	50.84
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	78410	21.1480	21.14
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	156640	21.4637	21.46
55 Dibromochloromethane	129	7.176	7.173	(0.936)	111717	20.8769	20.87
56 Tetrachloroethene	164	6.925	6.925	(0.903)	82751	21.6407	21.64
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	103028	22.2250	22.22
58 1-Chlorohexane	55	7.694	7.694	(1.550)	81584	24.0299	24.02
59 Chlorobenzene	112	7.694	7.694	(1.003)	267888	20.4359	20.43
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	101325	20.7702	20.77
61 Ethylbenzene	106	7.799	7.799	(1.017)	134198	21.7329	21.73
62 m,p-Xylenes	106	7.904	7.904	(1.031)	343058	43.0970	43.09
63 o-Xylene	106	8.241	8.241	(1.075)	167173	21.2781	21.27
64 Styrene	104	8.260	8.260	(1.077)	287153	21.8059	21.80
66 Bromoform	173	8.410	8.410	(1.097)	76199	20.5542	20.55
67 Isopropylbenzene	105	8.560	8.560	(1.116)	412165	22.9626	22.96



68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	130567	21.4350	21.43
\$ 69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	308398	49.9360	49.93



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011805.D Page 3
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	382174	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	100266	23.5782	23.57(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	496223	23.4409	23.44
74 Bromobenzene	156	8.807	8.803	(0.912)	128739	20.5321	20.53
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	365335	23.3616	23.36
76 2-Chlorotoluene	91	8.976	8.972	(0.929)	306104	22.0356	22.03
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	359374	22.6935	22.69
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	298059	23.2842	23.28
79 1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	374145	22.7380	22.73
81 sec-Butylbenzene	105	9.523	9.519	(0.986)	414704	24.3484	24.34
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	377102	24.7079	24.70
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	232591	22.3495	22.34
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	248492	21.8812	21.88
87 n-Butylbenzene	91	9.995	9.995	(1.035)	342035	24.2031	24.20
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	232353	21.6786	21.67
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	21156	21.7762	21.77
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	174691	25.8264	25.82
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	79982	26.8050	26.80
92 Naphthalene	128	11.544	11.540	(1.195)	393349	25.5589	25.55
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	164302	25.3623	25.36
M 94 1,2-Dichloroethylene (total)	96				176749	39.7074	39.70
M 95 Xylenes (total)	106				510231	64.3751	64.37
141 Cyclohexane	56	4.118	4.118	(0.986)	107777	23.2895	23.28
138 Freon TF	101	1.913	1.910	(0.458)	72249	20.8019	20.80
147 Methylcyclohexane	55	5.381	5.377	(1.084)	204648	23.7975	23.79
146 Methyl Acetate	43	2.228	2.224	(0.533)	52659	24.7336	24.73
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	160861	490.996	490.99
149 Isopropyl Alcohol	45	2.090	2.086	(0.500)	86867	507.698	507.69

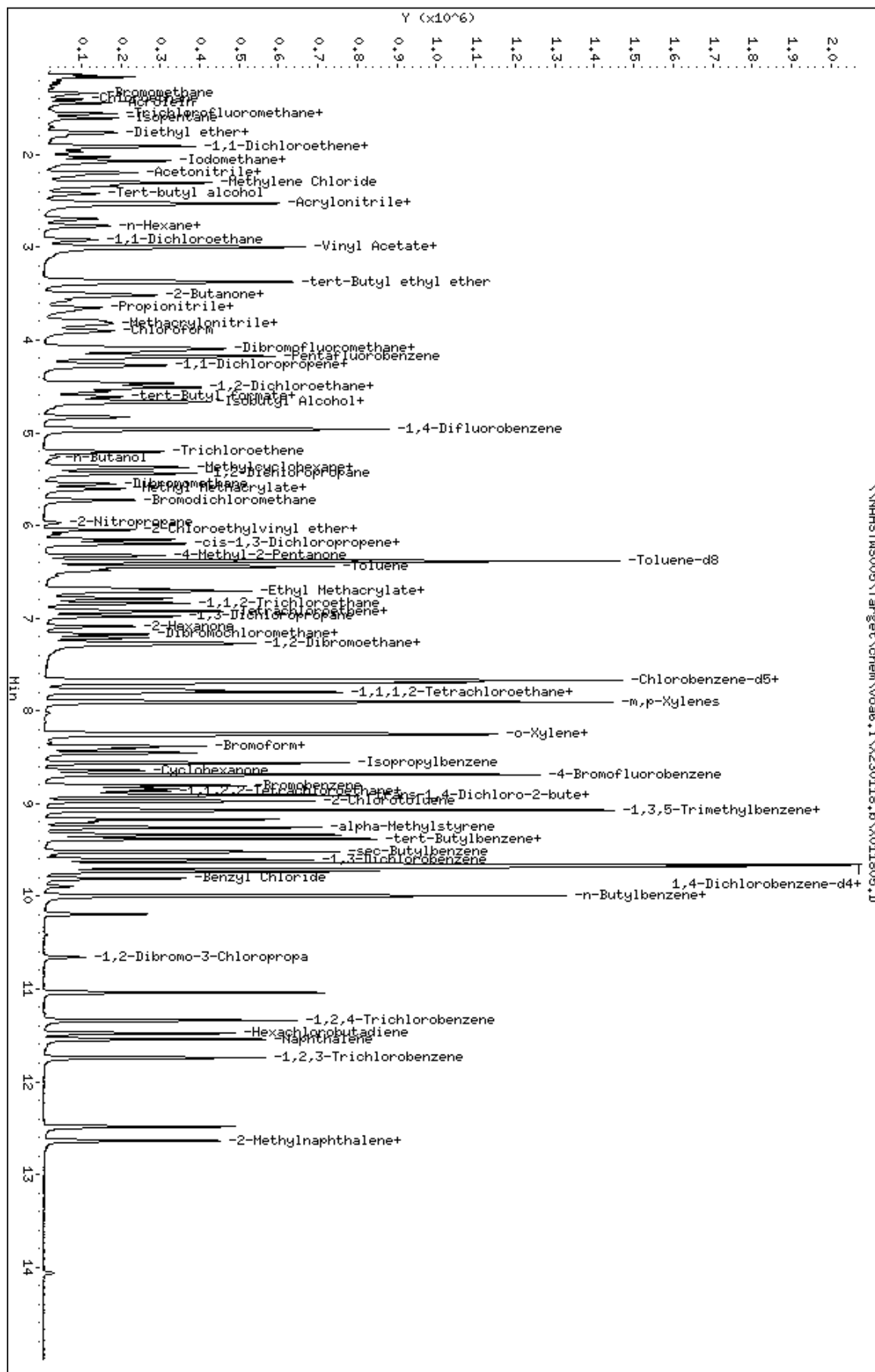
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011805.D
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 Sample Info: WLC5M-230118;WLC5M-230118;3;JLCS
 Purge Volume: 5.0
 Column phase: DB624

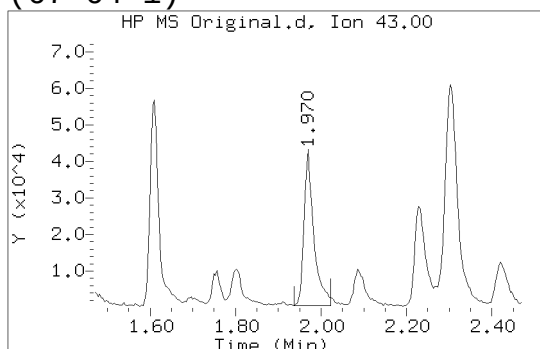
Instrument: voa6.i
 Operator: PC
 Column diameter: 0.18



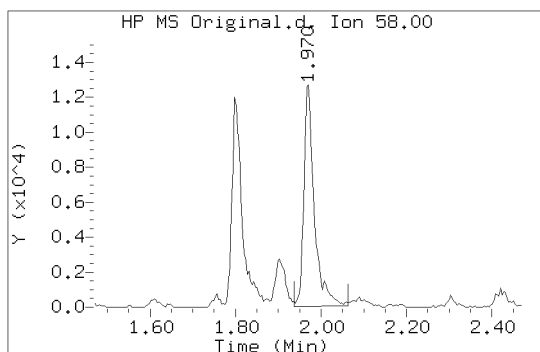
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Inj Date : 18-JAN-2023 12:30
InstruID : voa6.i
LabSampID : VLCSW-230118

Acetone (67-64-1)**BEFORE**

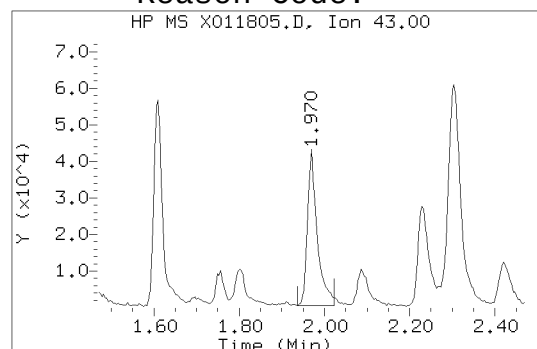
MASS
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AREA
69517
HEIGHT
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25-Jan-2023
10:05
linh

**BEFORE**

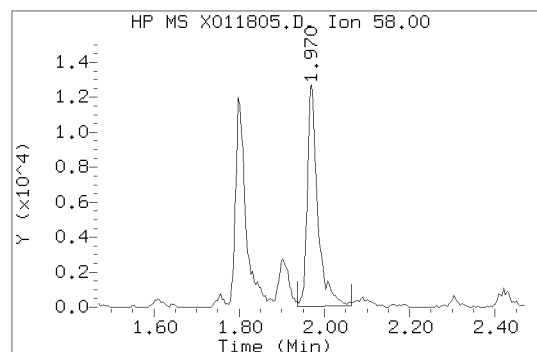
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25-Jan-2023
10:05
linh
pham

**Reason Code:****AFTER**

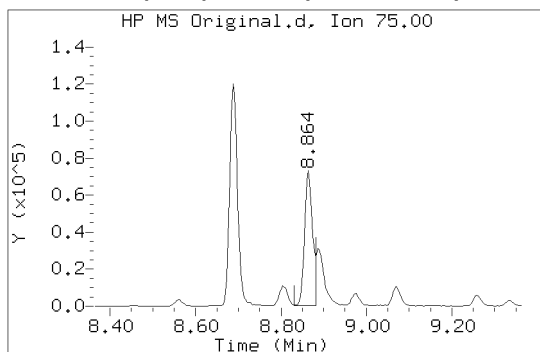
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25-Jan-2023
10:05
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**AFTER**

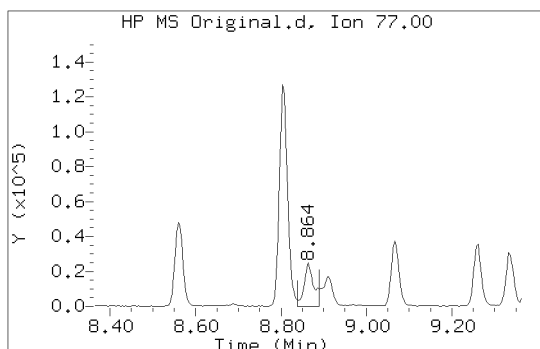
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58
AREA
22182
HEIGHT
12666
25-Jan-2023
10:05
linh
pham

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

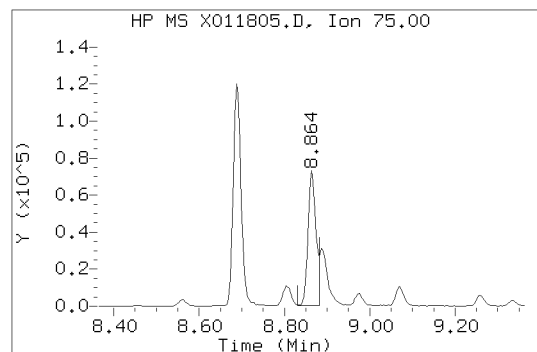
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HEIGHT
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25-Jan-2023
10:05
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**BEFORE**

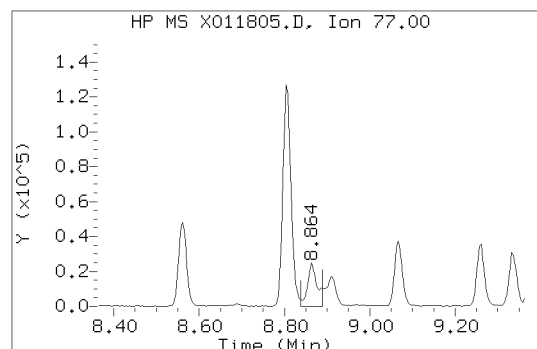
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AREA
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25-Jan-2023
10:05
linh
pham

**Reason Code:****AFTER**

MASS
75
AREA
100266
HEIGHT
72980
25-Jan-2023
10:05
linh
pham

**AFTER**

MASS
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24680
25-Jan-2023
10:05
linh
pham

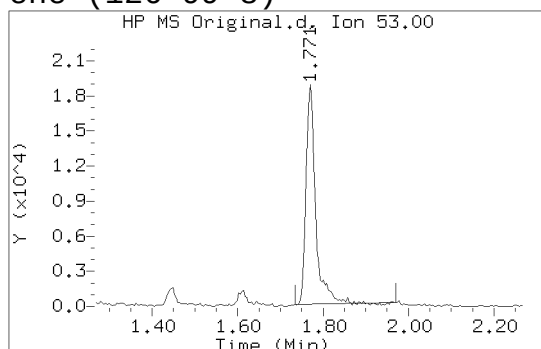


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Inj Date : 18-JAN-2023 12:30
InstruID : voa6.i
LabSampID : VLCSW-230118

Chloroprene (126-99-8)

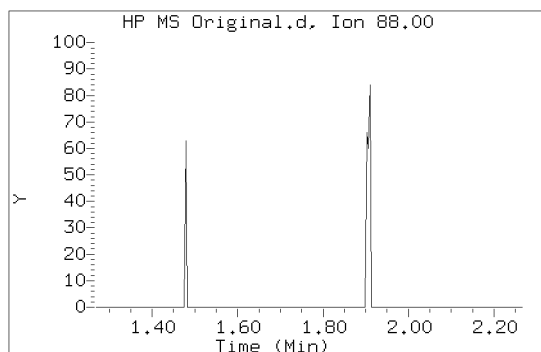
BEFORE

MASS
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HEIGHT
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25-Jan-2023
10:05
linh
pham



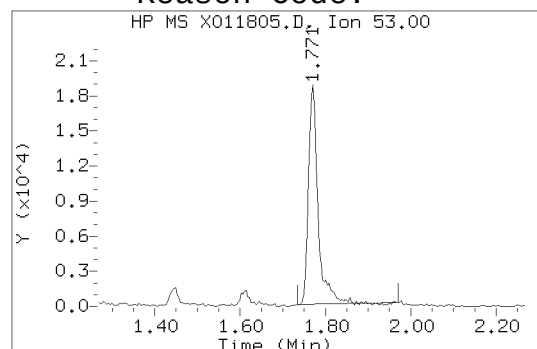
BEFORE

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25-Jan-2023
10:05
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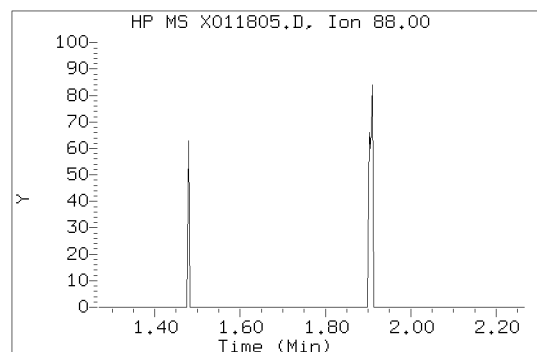
AFTER

MASS
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25-Jan-2023
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AFTER

MASS
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AREA
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HEIGHT
0
25-Jan-2023
10:05
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011807.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011807.D
 Lab Smp Id: VBLKW-230118 Client Smp ID: VBLKW-230118
 Inj Date : 18-JAN-2023 13:12
 Operator : PC Inst ID: voa6.i
 Smp Info : VBLKW-230118;VBLKW-230118;3;;BLANK
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177 (1.000)		535465	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.095 (0.980)		235300	45.7506	45.75
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466 (1.070)		263064	48.4833	48.48
* 36 1,4-Difluorobenzene	114	4.965	4.965 (1.000)		749587	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667 (1.000)		673748	50.0000	
\$ 48 Toluene-d8	98	6.386	6.385 (0.833)		879056	52.8000	52.79
\$ 69 4-Bromofluorobenzene	95	8.691	8.687 (1.133)		306688	49.2833	49.28
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)		355069	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011807.D

Date: 18-JAN-2023 13:12

Client ID: VBLKM-230118

Sample Info: VBLKM-230118;VBLKM-230118;3;BLANK

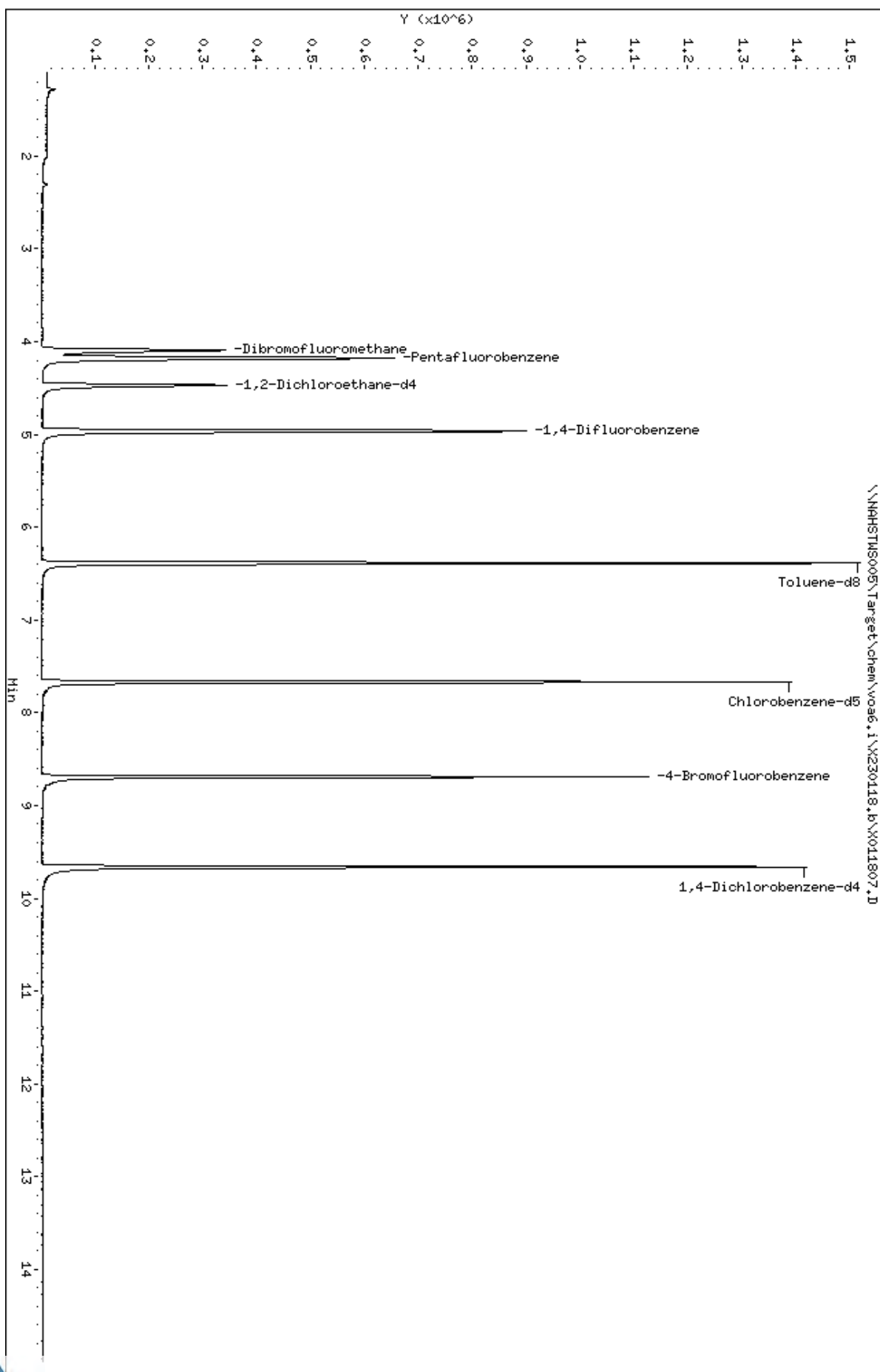
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011807.D
Inj Date : 18-JAN-2023 13:12
InstruID : voa6.i
LabSampID : VBLKW-230118

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011809.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011809.D
 Lab Smp Id: HS23010794-08 Client Smp ID: HS23010794-08
 Inj Date : 18-JAN-2023 13:54
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-08;HS23010794-08;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177 (1.000)		542248	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.095 (0.980)		237865	45.6705	45.67
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466 (1.070)		259207	47.1822	47.18
* 36 1,4-Difluorobenzene	114	4.961	4.965 (1.000)		756845	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667 (1.000)		662386	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385 (0.833)		878400	53.6656	53.66
\$ 69 4-Bromofluorobenzene	95	8.687	8.687 (1.133)		294377	48.1179	48.11
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)		337966	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011809.D

Date : 18-JAN-2023 13:54

Client ID: HS23010794-08

Sample Info: HS23010794-08;HS23010794-08;;

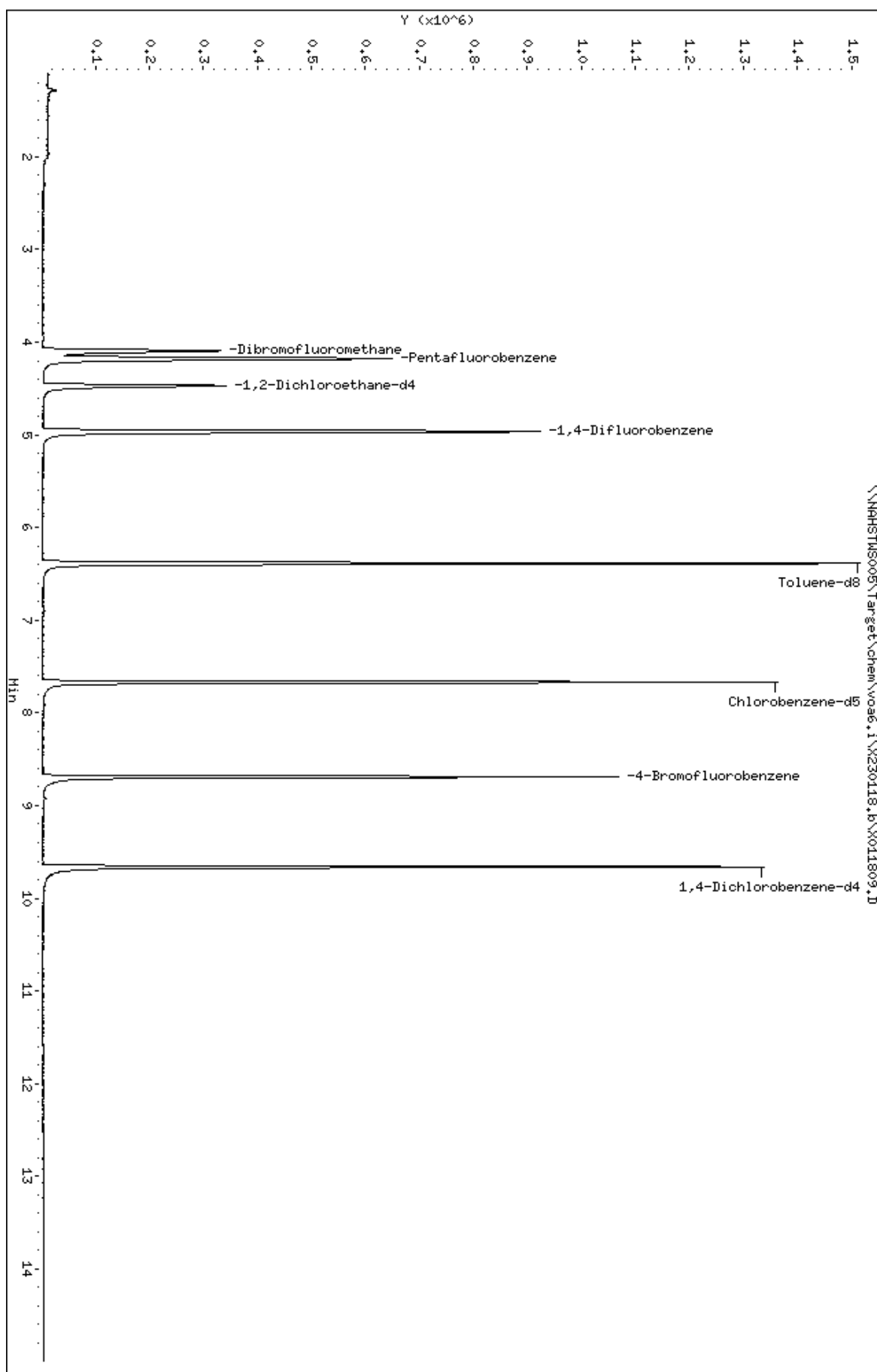
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011809.D
Inj Date : 18-JAN-2023 13:54
InstruID : voa6.i
LabSampID : HS23010794-08

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011811.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011811.D
 Lab Smp Id: HS23010794-01 Client Smp ID: HS23010794-01
 Inj Date : 18-JAN-2023 14:36
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-01;HS23010794-01;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	532028	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	233518	45.6972	45.69
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	256464	47.5774	47.57
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	747215	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	653649	50.0000	
\$ 48 Toluene-d8	98	6.386	6.385	(0.833)	867759	53.7241	53.72
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	294382	48.7610	48.76
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	336371	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011811.D

Date : 18-JAN-2023 14:36

Client ID: HS23010794-01

Sample Info: HS23010794-01;HS23010794-01;??

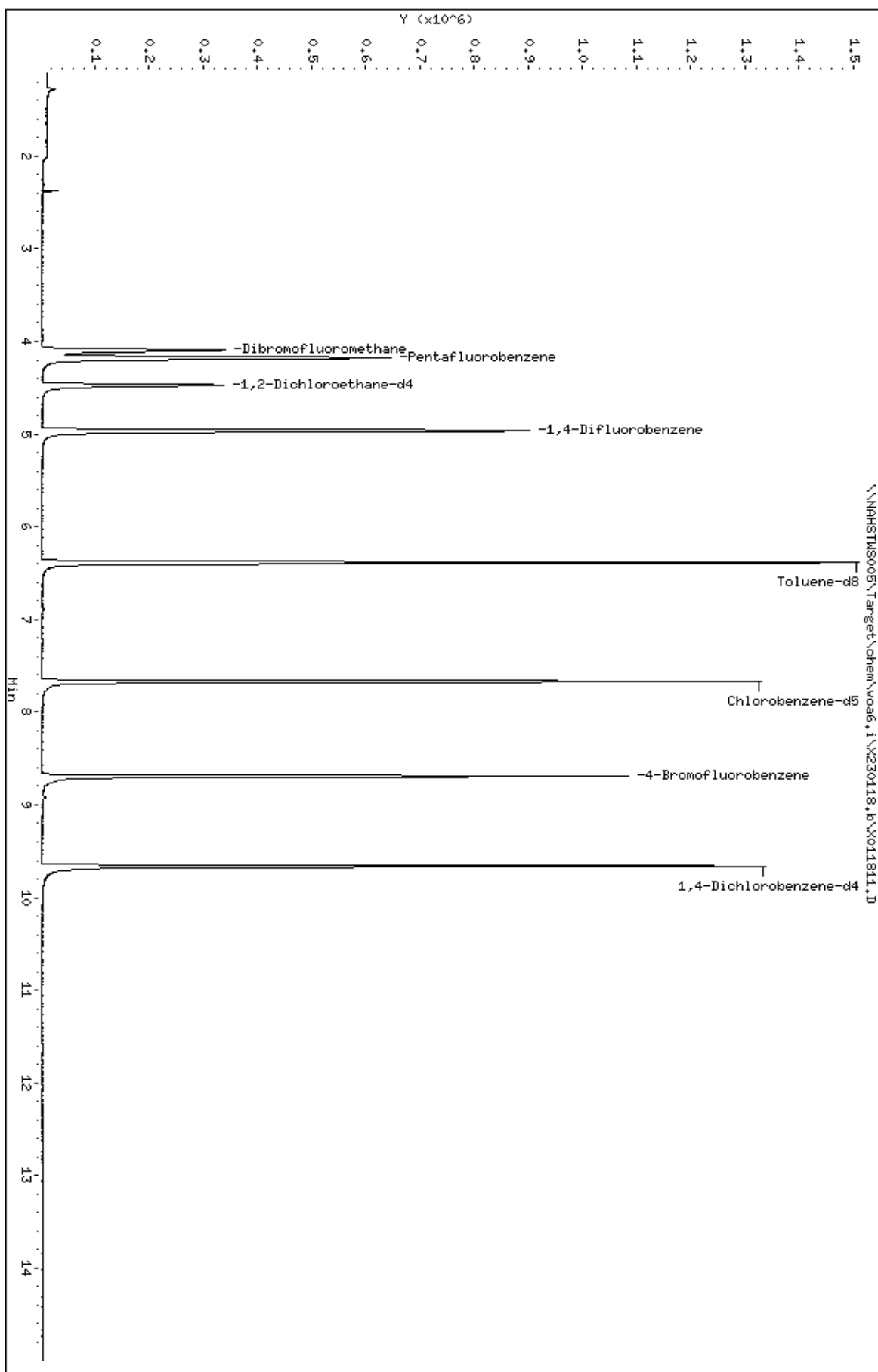
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Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



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Inj Date : 18-JAN-2023 14:36
InstruID : voa6.i
LabSampID : HS23010794-01

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011813.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011813.D
 Lab Smp Id: HS23010794-01MS Client Smp ID: HS23010794-01MS
 Inj Date : 18-JAN-2023 15:18
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-01MS;HS23010794-01MS;3;;MS
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 13 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		531106	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		17991	370.577	370.57(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		77876	21.3647	21.36
25 Methacrylonitrile	41		3.821	3.814	(0.915)		63370	16.8507	16.85
12 Isobutyl Alcohol	43		4.676	4.672	(1.119)		240328	402.305	402.30
13 Acetonitrile	39		2.194	2.194	(0.525)		100316	207.533	207.53
14 Allyl Chloride	41		2.194	2.194	(0.525)		176622	19.1852	19.18
4 Propionitrile	54		3.649	3.645	(0.873)		97294	179.536	179.53(a)
72 trans-1,4-Dichloro-2-butene	53		8.889	8.890	(1.159)		30438	20.8171	20.81
194 Acetaldehyde	44		1.209	1.209	(0.289)		24318	57.4117	57.41
23 Chloroprene	53		1.767	1.767	(0.423)		41048	22.7308	22.73(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		87400	21.0891	21.08
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		65610	18.1175	18.11
49 Ethyl Methacrylate	69		6.712	6.708	(1.353)		60636	17.2173	17.21
139 Diethyl ether	59		1.752	1.752	(0.419)		64319	18.1244	18.12
142 Tetrahydrofuran	42		3.844	3.840	(0.920)		22263	31.6200	31.61
156 Diisopropyl ether	45		2.997	2.997	(0.717)		257377	18.6812	18.68
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)		373061	20.9303	20.93
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		71939	19.6072	19.60
3 Chloromethane	50		1.074	1.074	(0.257)		92590	20.6279	20.62



5 Vinyl Chloride	62	1.141	1.141 (0.273)	102970	22.1942	22.19
6 Bromomethane	94	1.336	1.336 (0.320)	67820	20.4091	20.40

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011813.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	63367	19.6229	19.62
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	158220	24.3696	24.36
9 Acrolein	56	1.441	1.441	(0.345)	16117	45.9418	45.94
10 Acetone	43	1.969	1.970	(0.472)	45372	30.4223	30.42
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	100964	25.0478	25.04
15 Iodomethane	142	2.022	2.022	(0.484)	170027	35.1360	35.13
16 Acrylonitrile	53	2.532	2.528	(0.606)	54511	39.8733	39.87
17 Methylene Chloride	84	2.303	2.299	(0.551)	98776	17.8650	17.86
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	238352	18.0654	18.06
19 Carbon Disulfide	76	2.067	2.067	(0.495)	452679	42.9235	42.92
20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	90356	20.0290	20.02
21 Vinyl Acetate	43	2.997	2.993	(0.717)	462920	39.9689	39.96
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	156645	19.7851	19.78
24 2-Butanone	43	3.578	3.570	(0.856)	51104	34.3769	34.37
26 2,2-Dichloropropane	77	3.503	3.503	(0.838)	145497	21.6440	21.64
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	104192	18.9781	18.97
28 Chloroform	83	3.900	3.904	(0.934)	170125	19.1715	19.17
29 Bromochloromethane	128	3.791	3.788	(0.908)	52040	17.3122	17.31
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	232314	45.5400	45.53
31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	152829	21.7068	21.70
32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	132478	24.9509	24.95
33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	128144	20.9126	20.91
34 Carbon Tetrachloride	117	4.260	4.264	(0.859)	133949	23.6248	23.62
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	251733	46.7853	46.78
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	747876	50.0000	
37 Benzene	78	4.511	4.507	(0.909)	378439	21.1903	21.19
38 Trichloroethene	130	5.208	5.205	(1.050)	113456	22.3982	22.39
39 Bromodichloromethane	83	5.726	5.726	(1.154)	129673	19.3473	19.34
42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	94211	19.8313	19.83
44 Dibromomethane	93	5.553	5.553	(1.119)	61482	19.0406	19.04
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	151805	41.9320	41.93
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	156221	19.8466	19.84
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	677318	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	879381	52.5411	52.54
50 Toluene	91	6.445	6.445	(0.841)	417698	22.3114	22.31
51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	129343	19.8004	19.80
52 2-Hexanone	43	7.086	7.083	(0.924)	103898	42.1816	42.18
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	75587	20.1254	20.12
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	152942	20.6884	20.68
55 Dibromochloromethane	129	7.176	7.173	(0.936)	107719	19.8718	19.87
56 Tetrachloroethene	164	6.929	6.925	(0.904)	97046	25.0538	25.05
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	96227	20.4918	20.49
58 1-Chlorohexane	55	7.694	7.694	(1.551)	99168	27.4381	27.43
59 Chlorobenzene	112	7.694	7.694	(1.003)	281800	21.2216	21.22
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	102479	20.7375	20.73
61 Ethylbenzene	106	7.799	7.799	(1.017)	146961	23.4948	23.49
62 m,p-Xylenes	106	7.904	7.904	(1.031)	371242	46.0399	46.03
63 o-Xylene	106	8.241	8.241	(1.075)	178941	22.4840	22.48
64 Styrene	104	8.260	8.260	(1.077)	300291	22.5113	22.51
66 Bromoform	173	8.410	8.410	(1.097)	72283	19.2479	19.24
67 Isopropylbenzene	105	8.560	8.560	(1.116)	462951	25.4614	25.46
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	122478	20.7609	20.76



\$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	313751	50.1514	50.15
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	370137	50.0000	

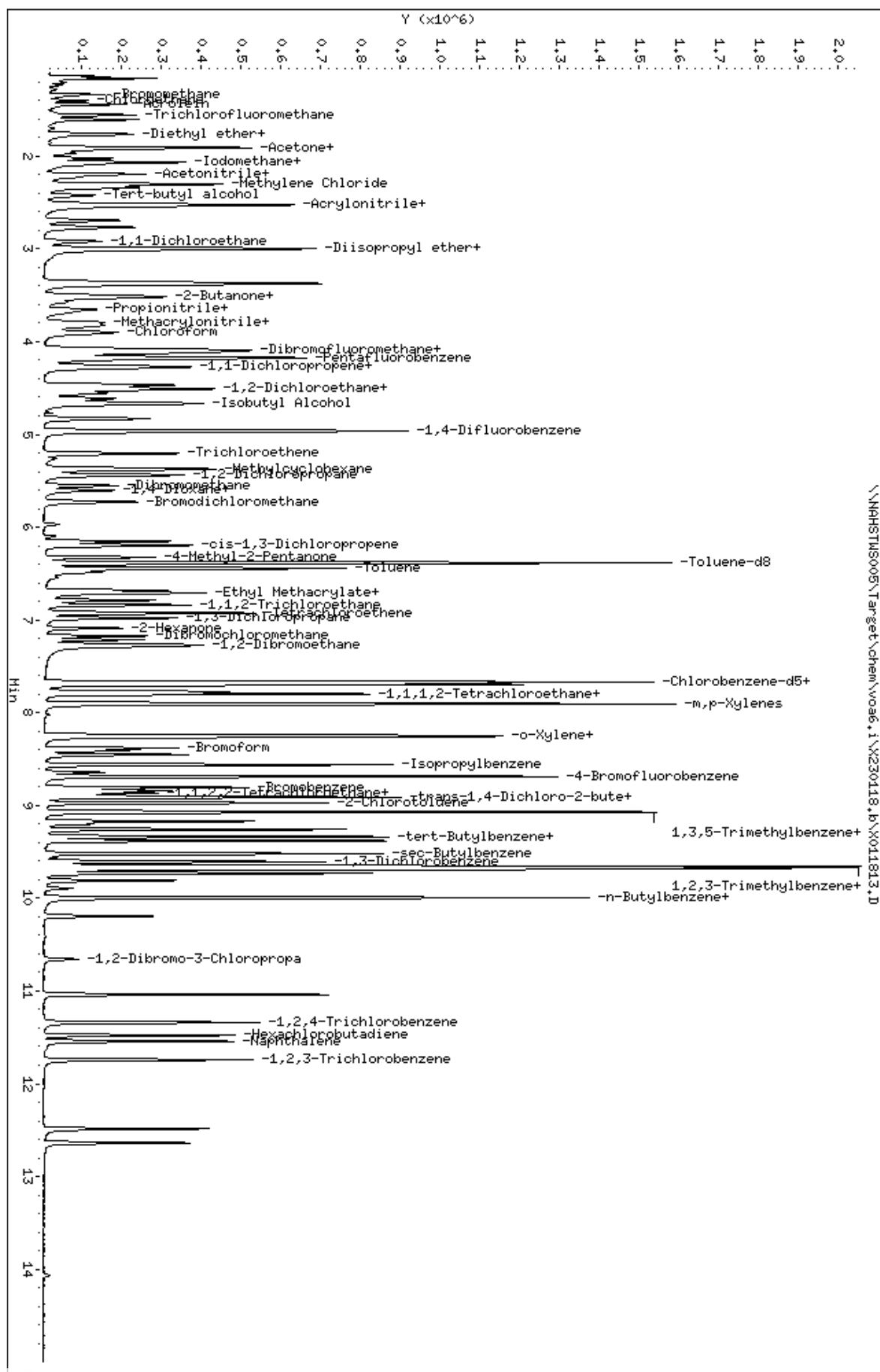
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011813.D Page 3
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	86389	20.9756	20.97(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	547134	26.6864	26.68
74 Bromobenzene	156	8.803	8.803	(0.911)	129757	21.3674	21.36
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	388547	25.6539	25.65
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	321562	23.9011	23.90
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	370760	24.1739	24.17
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	333793	26.9237	26.92
79 1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	388336	24.3679	24.36
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	471753	28.5986	28.59
82 p-Isopropyltoluene	119	9.650	9.651	(0.999)	416838	28.1996	28.19
83 1,3-Dichlorobenzene	146	9.605	9.606	(0.994)	237181	23.5317	23.53
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	248458	22.5897	22.58
87 n-Butylbenzene	91	9.995	9.995	(1.035)	369286	26.7774	26.77
88 1,2-Dichlorobenzene	146	9.995	9.992	(1.035)	232005	22.3501	22.35
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	18988	20.1870	20.18
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	156794	23.9343	23.93
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	77984	26.9846	26.98
92 Naphthalene	128	11.544	11.540	(1.195)	340035	22.8132	22.81
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	147160	23.4549	23.45
M 94 1,2-Dichloroethylene (total)	96				194548	39.0071	39.00
M 95 Xylenes (total)	106				550183	68.5239	68.52
141 Cyclohexane	56	4.121	4.118	(0.987)	146470	27.9309	27.93
138 Freon TF	101	1.913	1.910	(0.458)	98375	25.2331	25.23
147 Methylcyclohexane	55	5.377	5.377	(1.084)	215607	23.5517	23.55
146 Methyl Acetate	43	2.228	2.224	(0.533)	45805	19.1664	19.16
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	142595	387.745	387.74
149 Isopropyl Alcohol	45	2.089	2.086	(0.500)	75779	394.560	394.56

QC Flag Legend

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





\\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011813.D

Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011813.D
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 Client ID: HS23010794-01MS
 Sample Info: HS23010794-01MS;HS23010794-01MS;3;JMS
 Purge Volume: 5.0
 Column phase: DB624

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

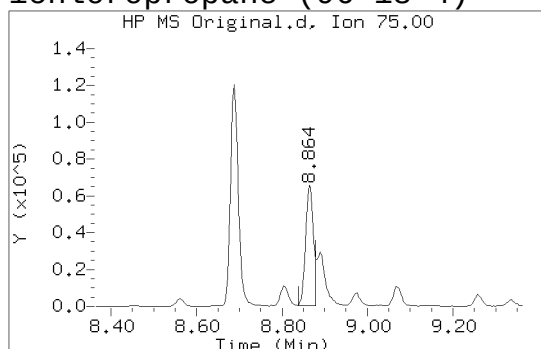


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Inj Date : 18-JAN-2023 15:18
InstruID : voa6.i
LabSampID : HS23010794-01MS

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

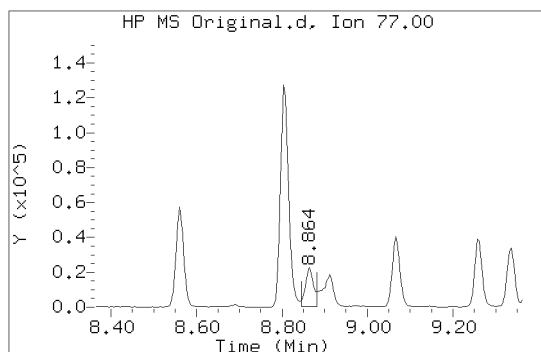
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25-Jan-2023
10:05
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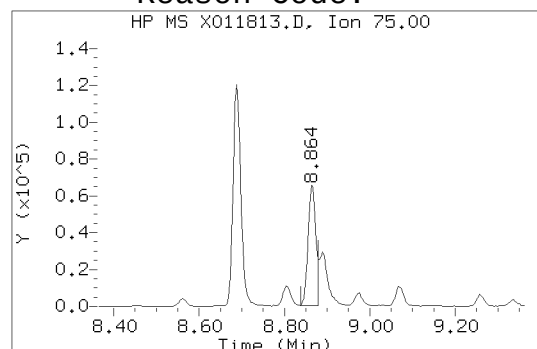
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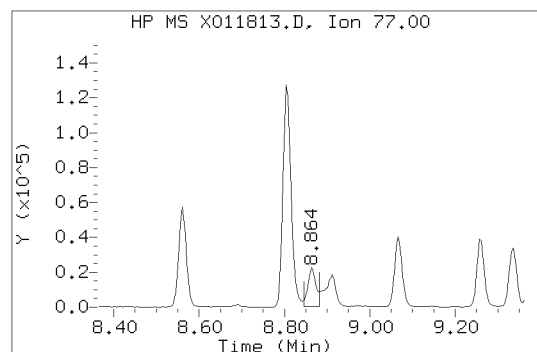
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AFTER

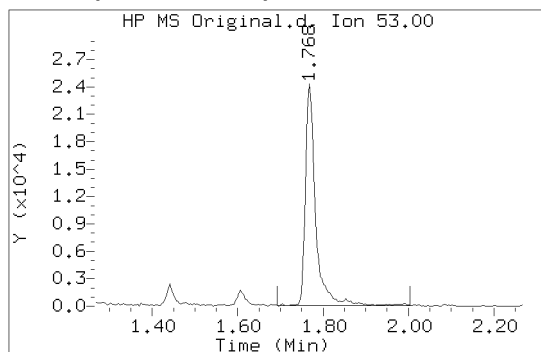
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Chloroprene (126-99-8)

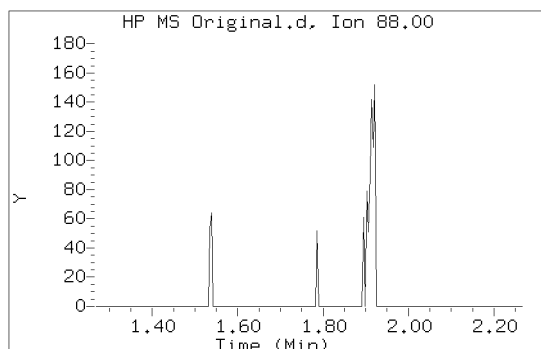
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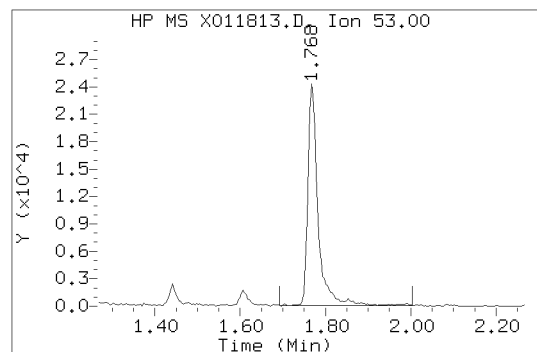
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25-Jan-2023
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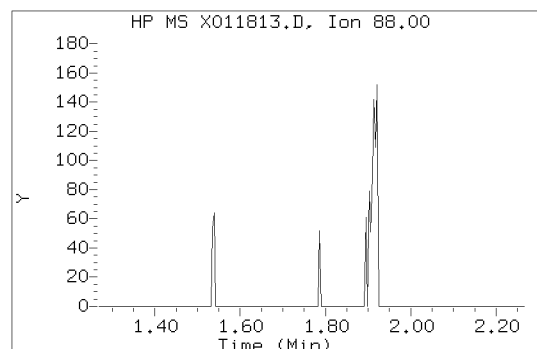
AFTER

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AFTER

MASS
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25-Jan-2023
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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011814.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011814.D
 Lab Smp Id: HS23010794-01MSD Client Smp ID: HS23010794-01MSD
 Inj Date : 18-JAN-2023 15:39
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-01MSD;HS23010794-01MSD;3;;MSD
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 13 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)		554704	50.0000	
135 1,4-Dioxane	88		5.598	5.598	(1.340)		18868	372.108	372.10(a)
140 1,3-Butadiene	54		1.160	1.160	(0.278)		75375	19.7989	19.79
25 Methacrylonitrile	41		3.825	3.814	(0.916)		69584	17.7159	17.71
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)		248917	398.957	398.95
13 Acetonitrile	39		2.194	2.194	(0.525)		102276	202.587	202.58
14 Allyl Chloride	41		2.194	2.194	(0.525)		178447	18.5588	18.55
4 Propionitrile	54		3.649	3.645	(0.873)		102175	180.522	180.52(a)
72 trans-1,4-Dichloro-2-butene	53		8.889	8.890	(1.159)		30978	19.8982	19.89
194 Acetaldehyde	44		1.205	1.209	(0.288)		57343	158.908	158.90
23 Chloroprene	53		1.767	1.767	(0.423)		39226	20.7978	20.79(M)
130 Ethyl Acetate	43		3.653	3.649	(0.874)		87843	20.2943	20.29
40 Methyl Methacrylate	41		5.606	5.602	(1.342)		67899	17.9519	17.95
49 Ethyl Methacrylate	69		6.708	6.708	(1.352)		63501	17.1314	17.13
139 Diethyl ether	59		1.752	1.752	(0.419)		65444	17.6569	17.65
142 Tetrahydrofuran	42		3.848	3.840	(0.921)		23817	32.4649	32.46
156 Diisopropyl ether	45		2.997	2.997	(0.717)		262145	18.2178	18.21
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)		376228	19.4848	19.48
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)		68141	17.8185	17.81
3 Chloromethane	50		1.074	1.074	(0.257)		88052	18.9802	18.98



5 Vinyl Chloride	62	1.141	1.141 (0.273)	97643	20.1507	20.15
6 Bromomethane	94	1.336	1.336 (0.320)	68529	19.8025	19.80

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011814.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	61884	18.3484	18.34
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	151100	22.2829	22.28
9 Acrolein	56	1.441	1.441	(0.345)	14787	40.7004	40.70
10 Acetone	43	1.969	1.970	(0.472)	47381	30.4178	30.41
11 1,1-Dichloroethene	96	1.909	1.910	(0.457)	89030	21.1475	21.14
15 Iodomethane	142	2.022	2.022	(0.484)	179728	35.5155	35.51
16 Acrylonitrile	53	2.532	2.528	(0.606)	54105	37.8926	37.89
17 Methylene Chloride	84	2.299	2.299	(0.550)	97474	16.8795	16.87
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	248484	18.0322	18.03
19 Carbon Disulfide	76	2.067	2.067	(0.495)	441392	40.0727	40.07
20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	88841	18.8554	18.85
21 Vinyl Acetate	43	2.997	2.993	(0.717)	476906	39.4248	39.42
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	154956	18.7391	18.73
24 2-Butanone	43	3.578	3.570	(0.856)	53320	34.3448	34.34
26 2,2-Dichloropropane	77	3.506	3.503	(0.839)	143154	20.3896	20.38
27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	102099	17.8057	17.80
28 Chloroform	83	3.904	3.904	(0.935)	169116	18.2470	18.24
29 Bromochloromethane	128	3.791	3.788	(0.908)	52425	16.6984	16.69
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	241932	45.4073	45.40
31 1,1,1-Trichloroethane	97	4.080	4.076	(0.977)	150400	20.4530	20.45
32 1,1-Dichloropropene	75	4.275	4.279	(0.862)	127828	22.8741	22.87
33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	132194	20.4973	20.49
34 Carbon Tetrachloride	117	4.260	4.264	(0.859)	131043	21.9593	21.95
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	264024	46.9810	46.98
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	787144	50.0000	
37 Benzene	78	4.507	4.507	(0.909)	372894	19.8381	19.83
38 Trichloroethene	130	5.208	5.205	(1.050)	108328	20.3189	20.31
39 Bromodichloromethane	83	5.726	5.726	(1.154)	133567	18.9341	18.93
42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	96585	19.3168	19.31
44 Dibromomethane	93	5.553	5.553	(1.119)	63653	18.7295	18.72
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	161319	41.8506	41.85
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	158232	19.0993	19.09
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	721168	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.833)	928752	52.1168	52.11
50 Toluene	91	6.445	6.445	(0.841)	415198	20.8294	20.82
51 trans-1,3-Dichloropropene	75	6.681	6.678	(1.347)	133573	19.4279	19.42
52 2-Hexanone	43	7.086	7.083	(0.924)	108337	41.3094	41.30
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	77969	19.4973	19.49
54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	155087	19.7030	19.70
55 Dibromochloromethane	129	7.173	7.173	(0.935)	110969	19.2266	19.22
56 Tetrachloroethene	164	6.925	6.925	(0.903)	95478	23.1502	23.15
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	100565	20.1134	20.11
58 1-Chlorohexane	55	7.694	7.694	(1.551)	98356	25.8559	25.85
59 Chlorobenzene	112	7.694	7.694	(1.003)	279794	19.7894	19.78
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	103307	19.6340	19.63
61 Ethylbenzene	106	7.799	7.799	(1.017)	147544	22.1537	22.15
62 m,p-Xylenes	106	7.904	7.904	(1.031)	372284	43.3619	43.36
63 o-Xylene	106	8.241	8.241	(1.075)	175456	20.7056	20.70
64 Styrene	104	8.260	8.260	(1.077)	298098	20.9881	20.98
66 Bromoform	173	8.410	8.410	(1.097)	74010	18.5095	18.50
67 Isopropylbenzene	105	8.560	8.560	(1.116)	457727	23.6434	23.64
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	124002	19.4029	19.40



\$	69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	331339	49.7429	49.74
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	400970	50.0000	

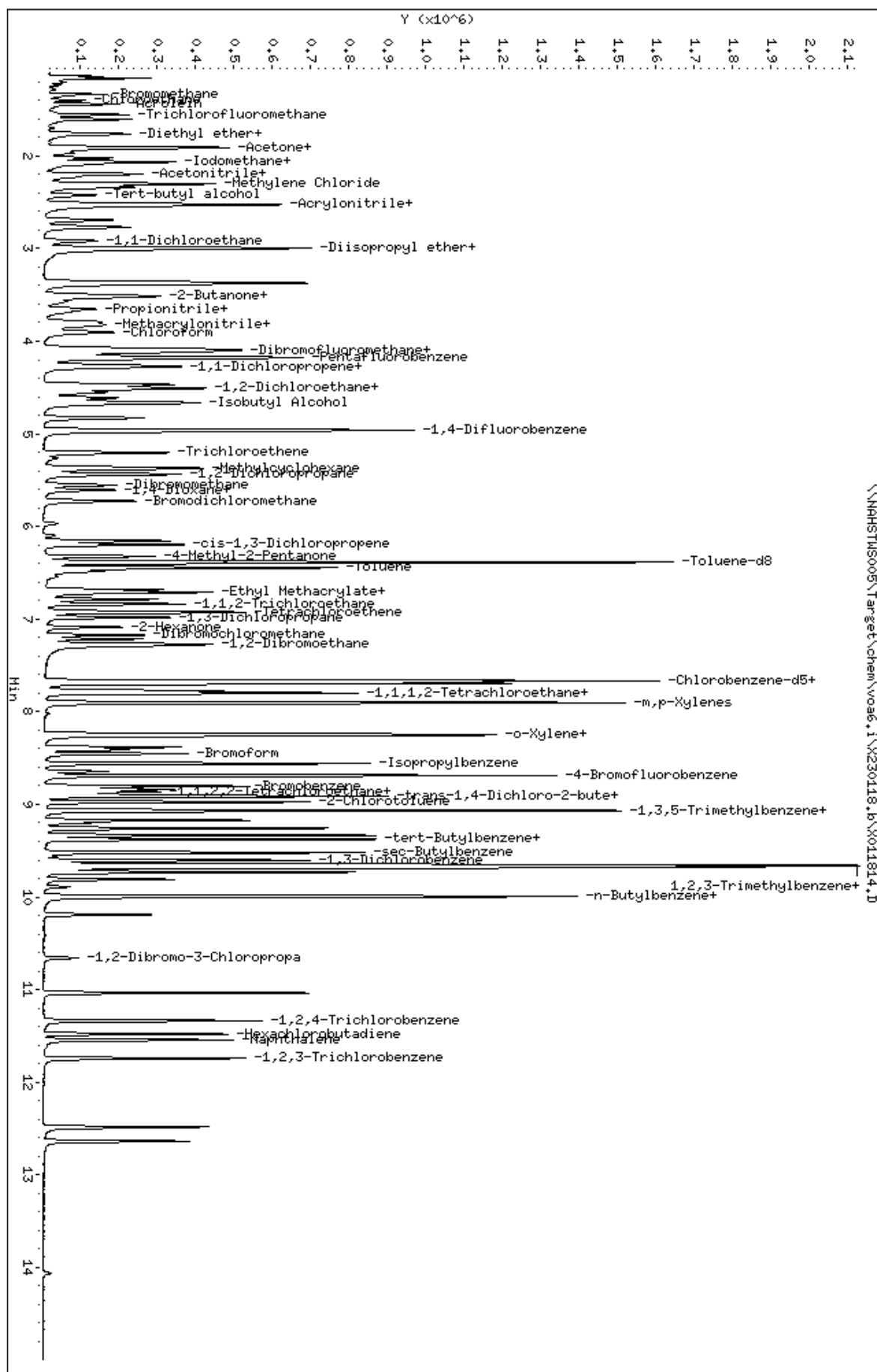
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011814.D Page 3
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	90299	20.2390	20.23(M)	
73 n-Propylbenzene	91	8.912	8.912	(0.922)	544455	24.5137	24.51	
74 Bromobenzene	156	8.803	8.803	(0.911)	132337	20.1165	20.11	
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	387981	23.6467	23.64	
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	321283	22.0441	22.04	
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	371694	22.3712	22.37	
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	332575	24.7627	24.76	
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	389965	22.5885	22.58	
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	469230	26.2583	26.25	
82 p-Isopropyltoluene	119	9.647	9.651	(0.998)	409401	25.5668	25.56	
83 1,3-Dichlorobenzene	146	9.605	9.606	(0.994)	233465	21.3819	21.38	
84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	250932	21.0603	21.06	
87 n-Butylbenzene	91	9.992	9.995	(1.034)	371762	25.0096	25.00	
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	233542	20.7681	20.76	
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	19806	19.4409	19.44	
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	159950	22.5386	22.53	
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	77268	24.6898	24.68	
92 Naphthalene	128	11.543	11.540	(1.195)	348747	21.5985	21.59	
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	147233	21.6620	21.66	
M 94 1,2-Dichloroethylene (total)	96				190940	36.6611	36.66	
M 95 Xylenes (total)	106				547740	64.0675	64.06	
141 Cyclohexane	56	4.121	4.118	(0.987)	144856	26.5149	26.51	
138 Freon TF	101	1.909	1.910	(0.457)	97552	23.9575	23.95	
147 Methylcyclohexane	55	5.377	5.377	(1.084)	215206	22.3352	22.33	
146 Methyl Acetate	43	2.228	2.224	(0.533)	47655	19.0922	19.09	
148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	155186	404.030	404.03	
149 Isopropyl Alcohol	45	2.089	2.086	(0.500)	82022	408.898	408.89	

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011814.D
 Date : 18-JAN-2023 15:39
 Client ID: HS23010794-01MSD
 Sample Info: HS23010794-01MSD\HS23010794-01MSD\3\MSD
 Purge Volume: 5.0
 Column phase: DB624

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

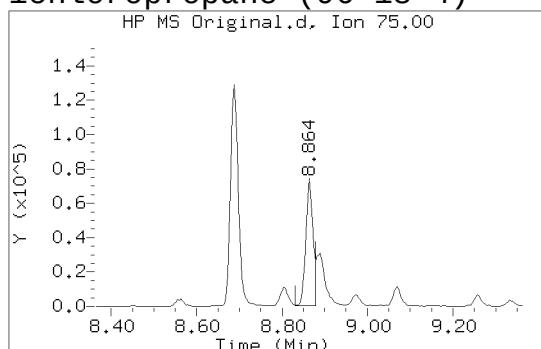


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Inj Date : 18-JAN-2023 15:39
InstruID : voa6.i
LabSampID : HS23010794-01MSD

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

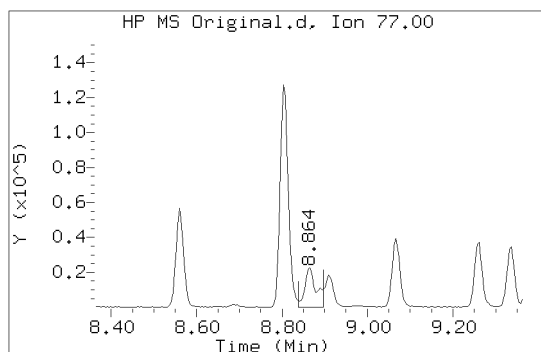
BEFORE

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HEIGHT
74453
25-Jan-2023
10:05
linh



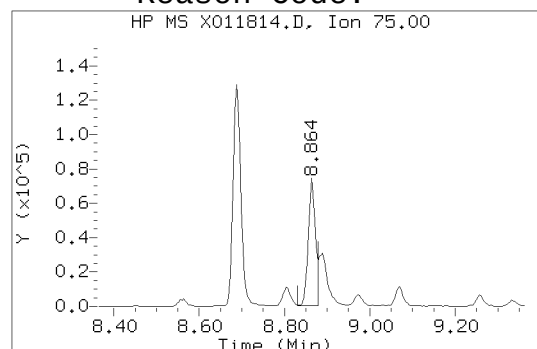
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25-Jan-2023
10:05
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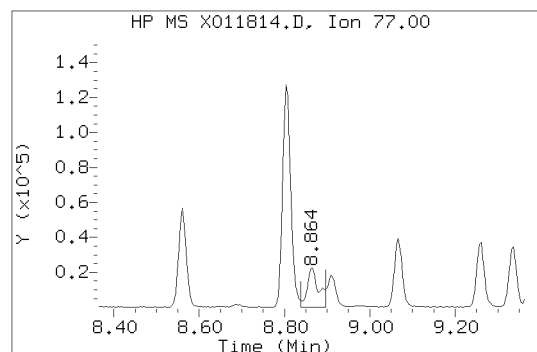
AFTER

MASS
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AREA
90299
HEIGHT
74453
25-Jan-2023
10:05
linh



AFTER

MASS
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22355
25-Jan-2023
10:05
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pham

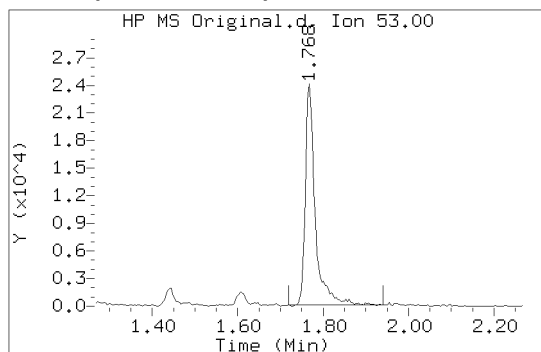


Reason Code:

Chloroprene (126-99-8)

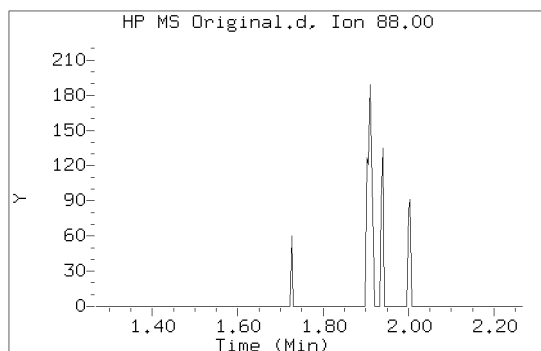
BEFORE

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25-Jan-2023
10:05
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pham



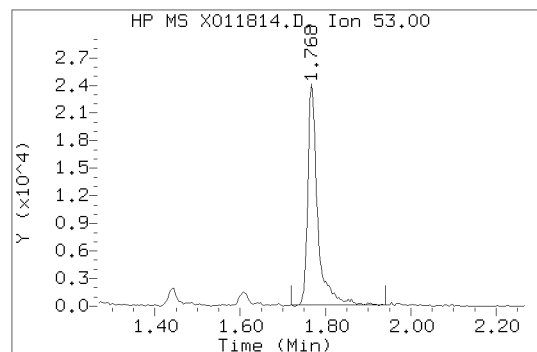
BEFORE

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25-Jan-2023
10:05
linh
pham



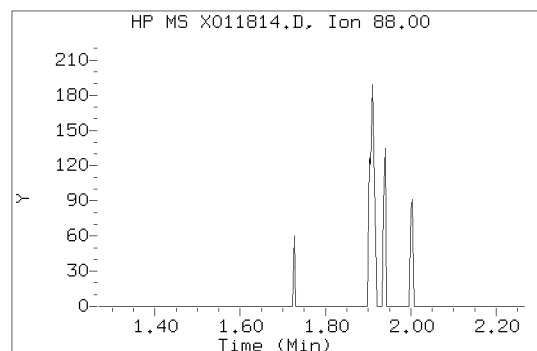
AFTER

MASS
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25-Jan-2023
10:05
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pham



AFTER

MASS
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AREA
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HEIGHT
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25-Jan-2023
10:05
linh
pham



Reason Code:



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011818.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011818.D
 Lab Smp Id: HS23010794-02 Client Smp ID: HS23010794-02
 Inj Date : 18-JAN-2023 17:03
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-02;HS23010794-02;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177 (1.000)	527890	50.0000		
\$ 30 Dibromofluoromethane	113	4.091	4.095 (0.979)	230773	45.5134	45.51	
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466 (1.070)	255086	47.6920	47.69	
* 36 1,4-Difluorobenzene	114	4.961	4.965 (1.000)	734432	50.0000		
* 47 Chlorobenzene-d5	117	7.667	7.667 (1.000)	657531	50.0000		
\$ 48 Toluene-d8	98	6.385	6.385 (0.833)	864627	53.2142	53.21	
\$ 69 4-Bromofluorobenzene	95	8.691	8.687 (1.133)	290923	47.9047	47.90	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662 (1.000)	339629	50.0000		



Data File: \\NAHSTMS0005\Target\chem\voa6.i\X230118.b\X011818.D

Date: 18-JAN-2023 17:03

Client ID: HS23010794-02

Sample Info: HS23010794-02;HS23010794-02;;

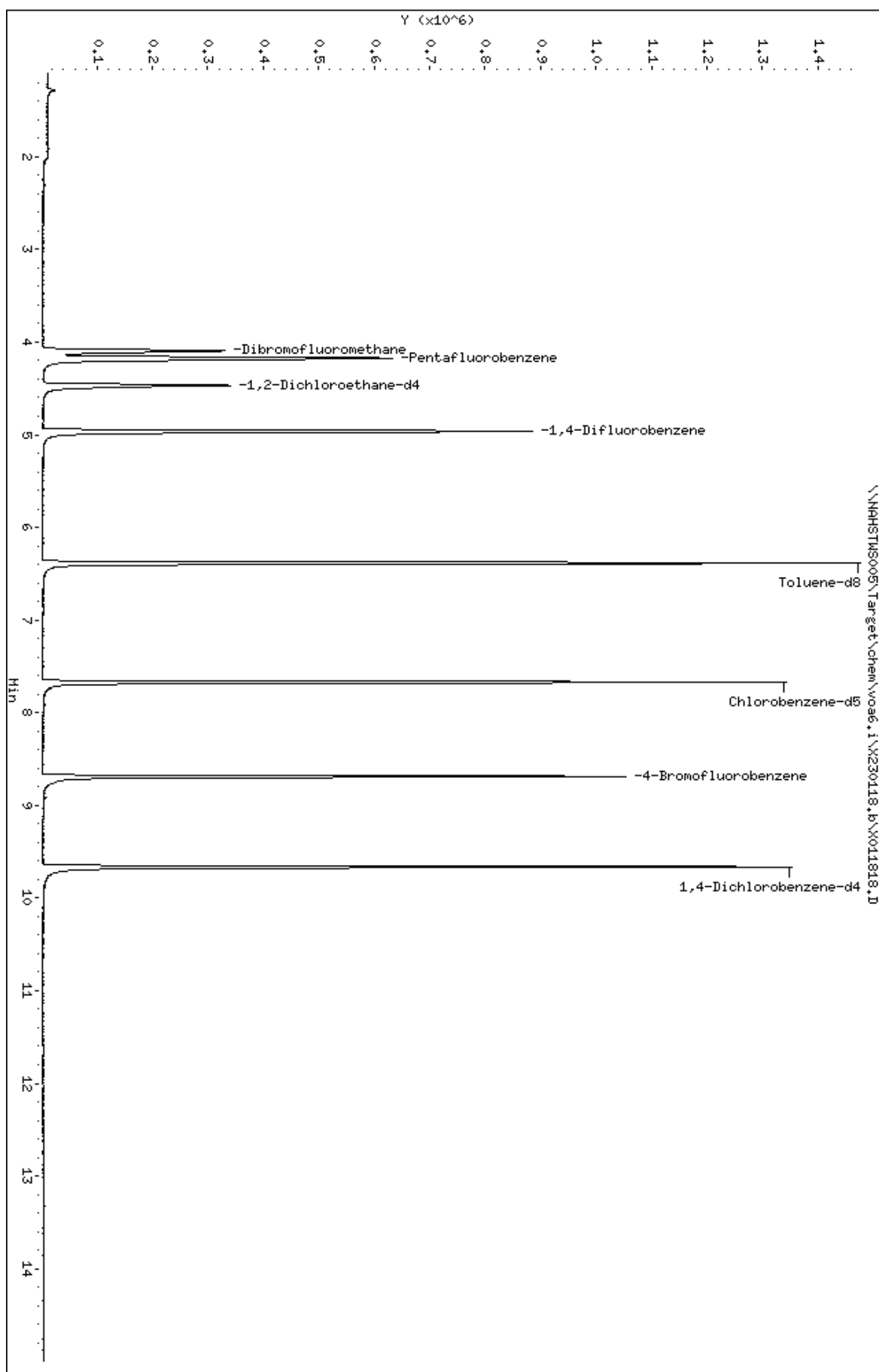
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011818.D
Inj Date : 18-JAN-2023 17:03
InstruID : voa6.i
LabSampID : HS23010794-02

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011819.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011819.D
 Lab Smp Id: HS23010794-03 Client Smp ID: HS23010794-03
 Inj Date : 18-JAN-2023 17:24
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-03;HS23010794-03;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Uf}/\text{Vo}) * 1 * \text{CpndVariable}$

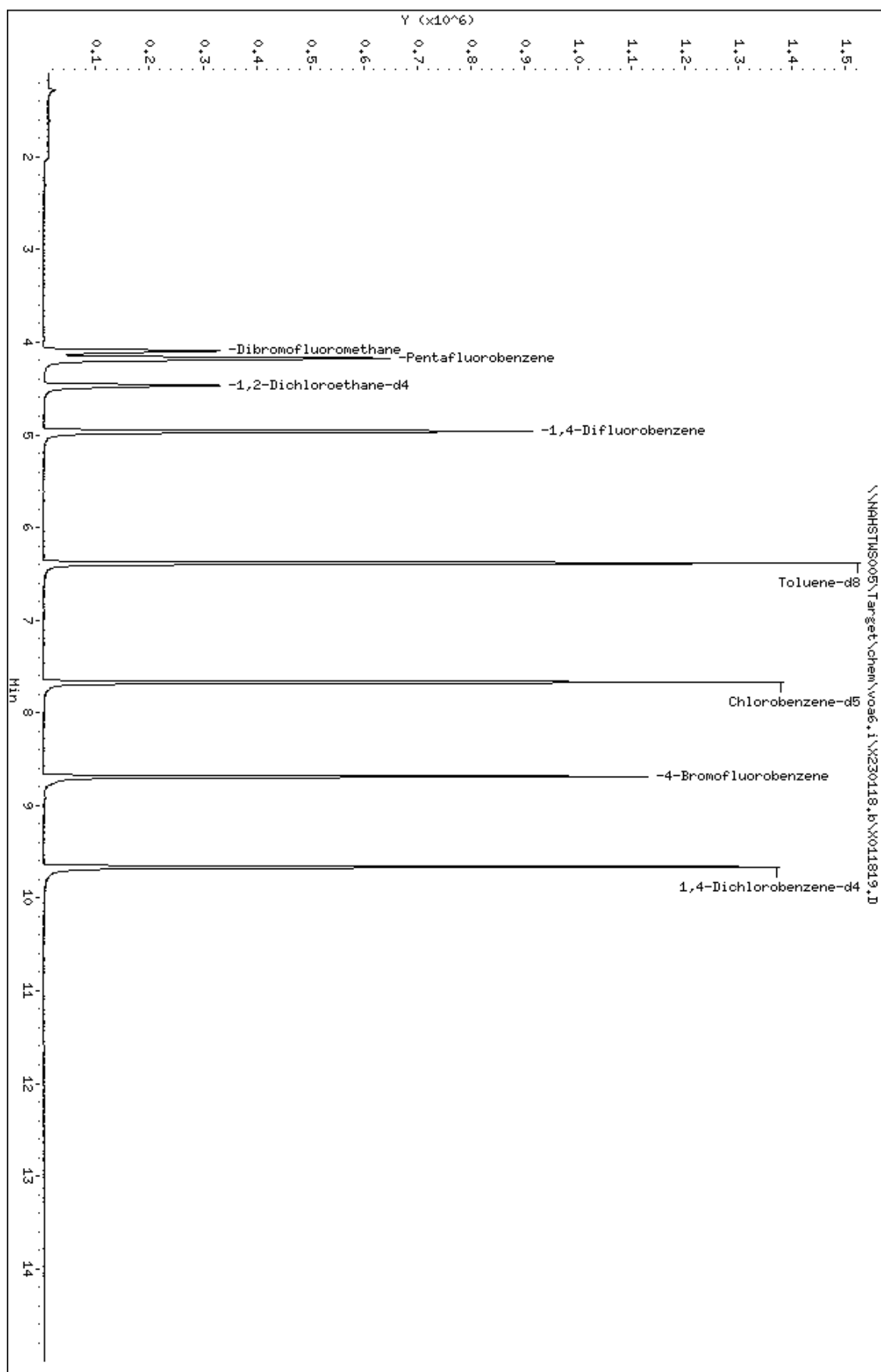
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	535889	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	234283	45.5159	45.51
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	256000	47.1516	47.15
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	756864	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.667	(1.000)	676673	50.0000	
\$ 48 Toluene-d8	98	6.385	6.385	(0.832)	879708	52.6107	52.61
\$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.132)	302919	48.4683	48.46
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	349387	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011819.D
Date: 18-JAN-2023 17:24
Client ID: HS23010794-03
Sample Info: HS23010794-03;HS23010794-03;;
Purge Volume: 5.0
Column phase: DB624

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



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011819.D
Inj Date : 18-JAN-2023 17:24
InstruID : voa6.i
LabSampID : HS23010794-03

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D
 Lab Smp Id: HS23010794-04 Client Smp ID: HS23010794-04
 Inj Date : 18-JAN-2023 17:45
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-04;HS23010794-04;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.178	4.177	(1.000)		529844	50.0000	
5 Vinyl Chloride	62		1.141	1.141	(0.273)		35133	7.59061	7.59
11 1,1-Dichloroethene	96		1.910	1.910	(0.457)		88779	22.0773	22.07
20 trans-1,2-Dichloroethene	96		2.532	2.524	(0.606)		11992	2.66457	2.66(a)
22 1,1-Dichloroethane	63		2.918	2.918	(0.699)		64794	8.20331	8.20
27 cis-1,2-Dichloroethene	96		3.522	3.521	(0.843)		715011	130.546	130.54
\$ 30 Dibromofluoromethane	113		4.095	4.095	(0.980)		231880	45.5632	45.56
\$ 35 1,2-Dichloroethane-d4	65		4.470	4.466	(1.070)		251532	46.8589	46.85
* 36 1,4-Difluorobenzene	114		4.961	4.965	(1.000)		742060	50.0000	
38 Trichloroethene	130		5.205	5.205	(1.049)		120373	23.9499	23.94
* 47 Chlorobenzene-d5	117		7.668	7.667	(1.000)		659323	50.0000	
\$ 48 Toluene-d8	98		6.386	6.385	(0.833)		860033	52.7876	52.78
56 Tetrachloroethene	164		6.933	6.925	(0.904)		16192	4.29429	4.29(a)
\$ 69 4-Bromofluorobenzene	95		8.691	8.687	(1.133)		295233	48.4815	48.48
* 70 1,4-Dichlorobenzene-d4	152		9.662	9.662	(1.000)		338537	50.0000	
M 94 1,2-Dichloroethylene (total)	96						727003	133.210	133.21

QC Flag Legend



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



Data File: \\NAHSTMS0005\Target\chem\voa6.i\X230118.b\X011820.D

Date: 18-JAN-2023 17:45

Client ID: HS23010794-04

Sample Info: HS23010794-04;HS23010794-04;;

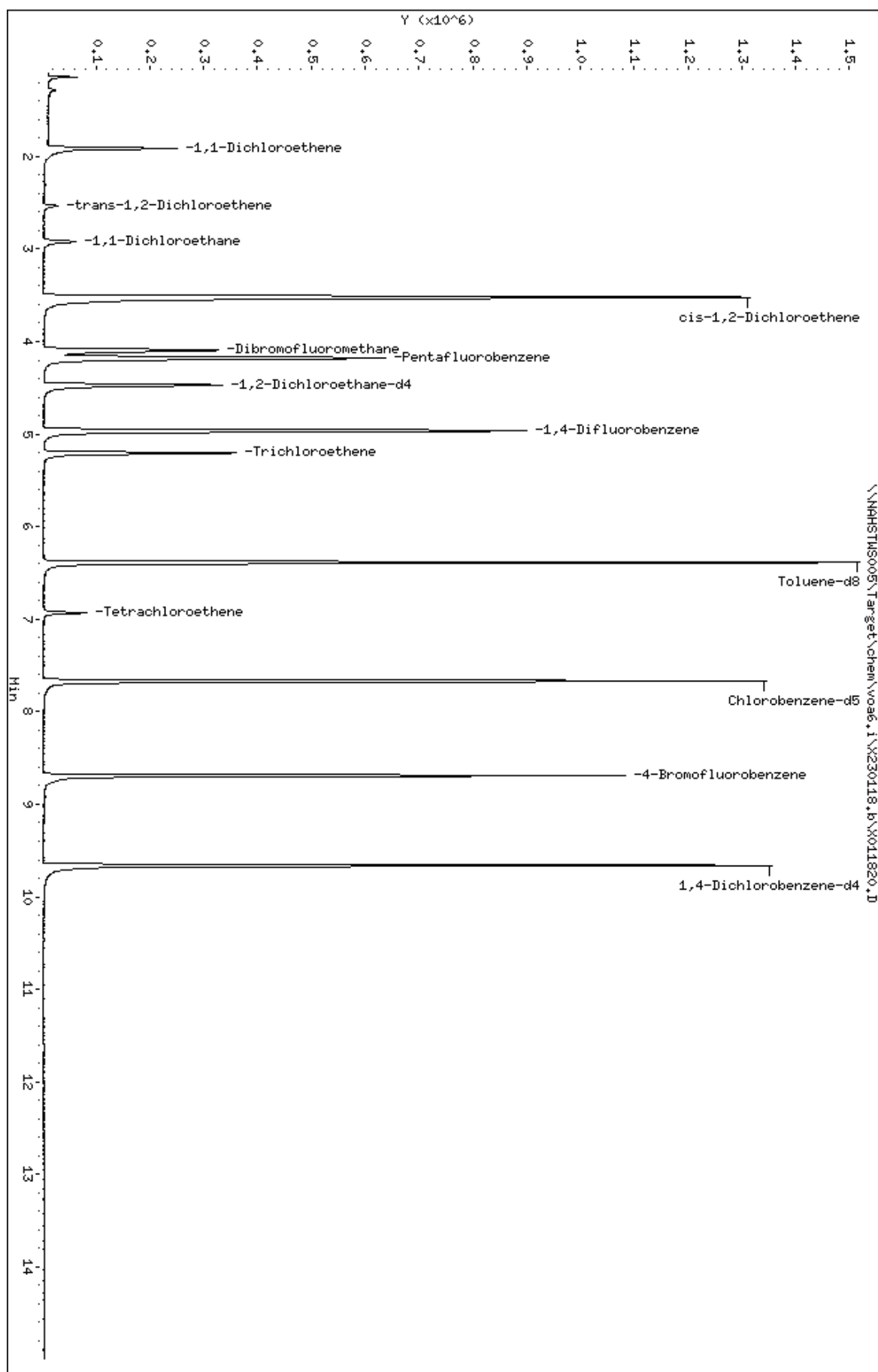
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D

Page 2

Date : 18-JAN-2023 17:45

Client ID: HS23010794-04

Instrument: voa6.i

Sample Info: HS23010794-04;HS23010794-04;;;

Purge Volume: 5.0

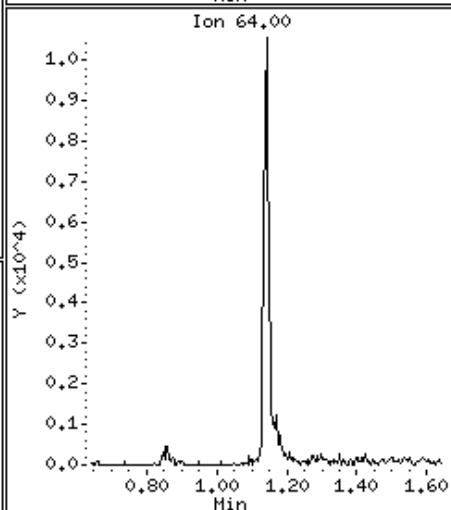
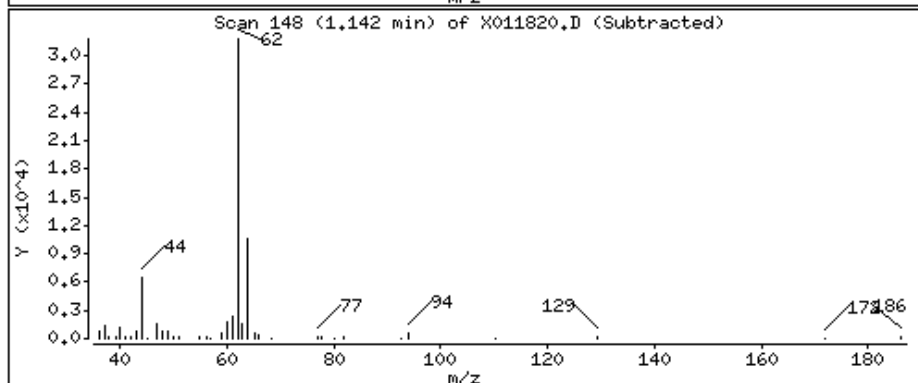
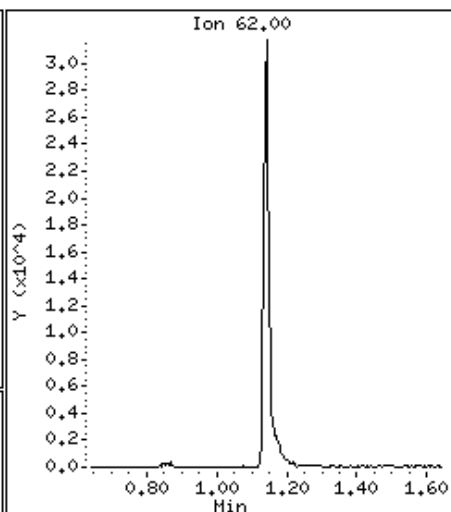
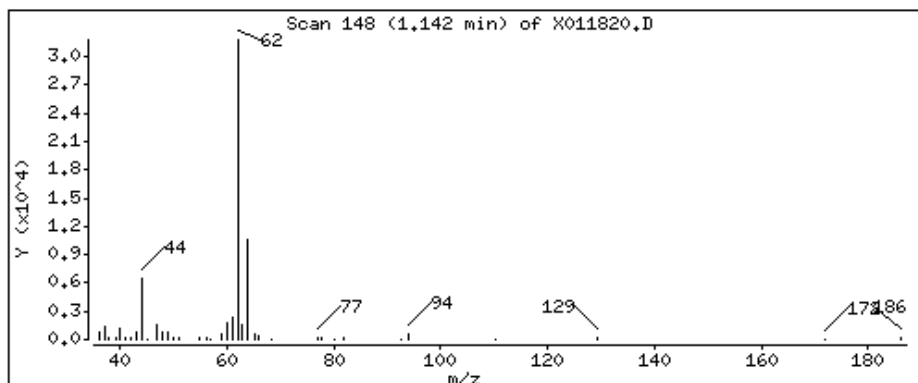
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 7.59 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D

Page 3

Date : 18-JAN-2023 17:45

Client ID: HS23010794-04

Instrument: voa6.i

Sample Info: HS23010794-04;HS23010794-04;;;

Purge Volume: 5.0

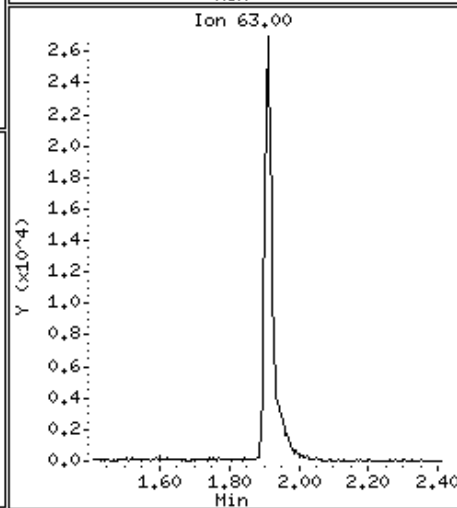
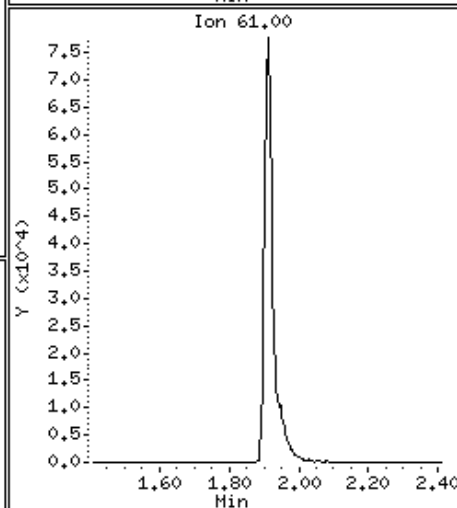
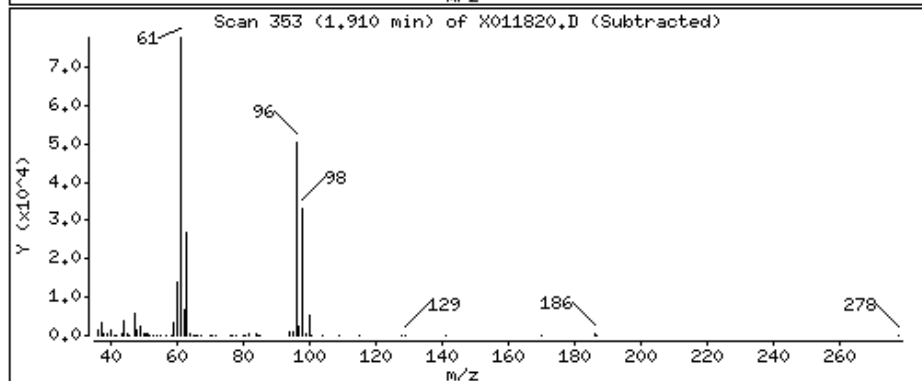
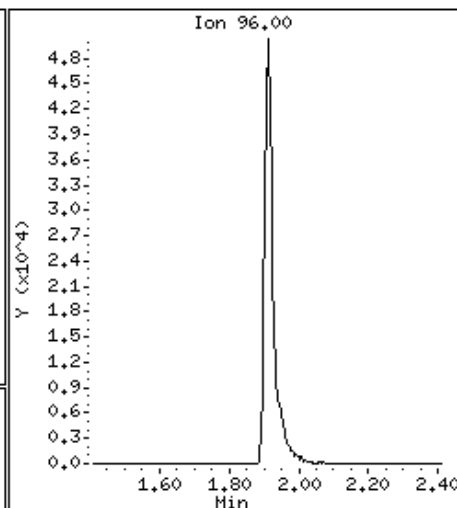
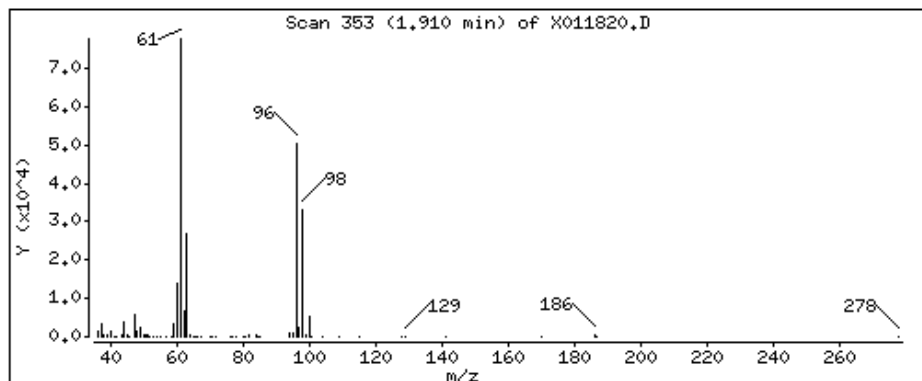
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 22.07 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D

Page 4

Date : 18-JAN-2023 17:45

Client ID: HS23010794-04

Instrument: voa6.i

Sample Info: HS23010794-04;HS23010794-04;;;

Purge Volume: 5.0

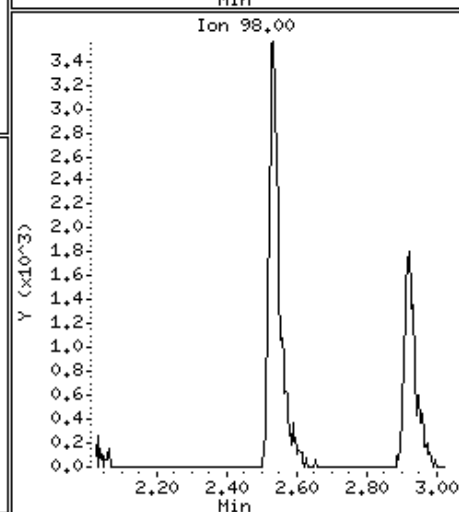
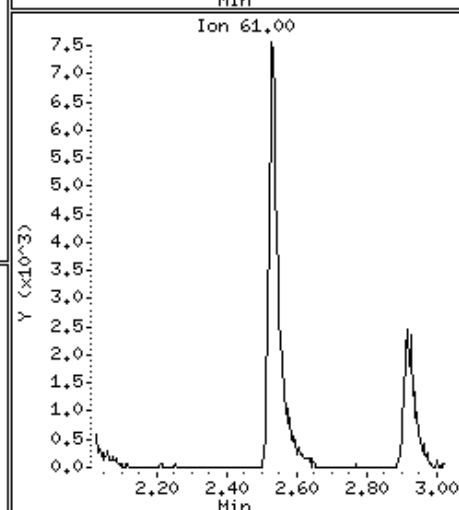
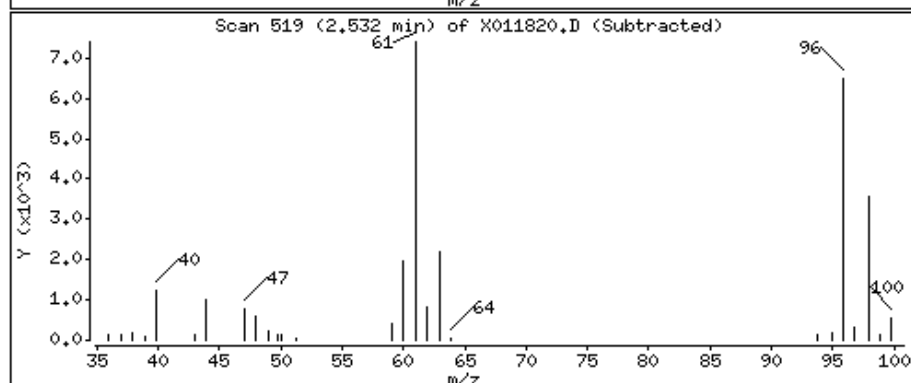
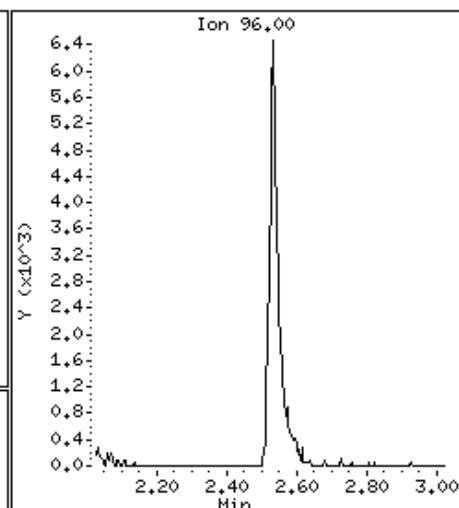
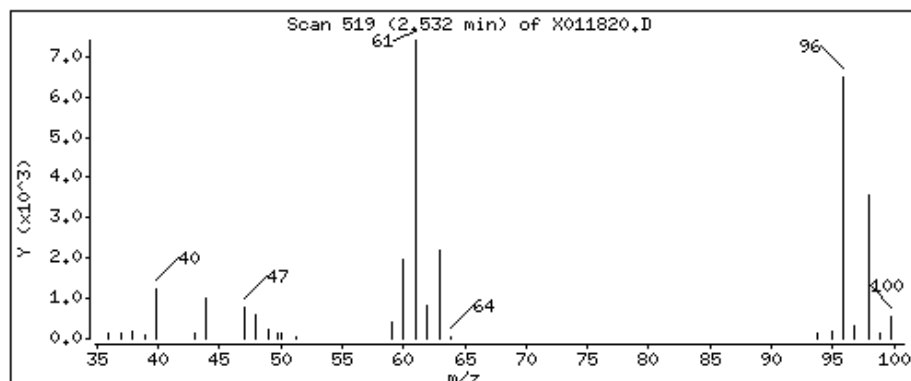
Operator: PC

Column phase: DB624

Column diameter: 0.18

20 trans-1,2-Dichloroethene

Concentration: 2.66 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D

Page 5

Date : 18-JAN-2023 17:45

Client ID: HS23010794-04

Instrument: voa6.i

Sample Info: HS23010794-04;HS23010794-04;;;

Purge Volume: 5.0

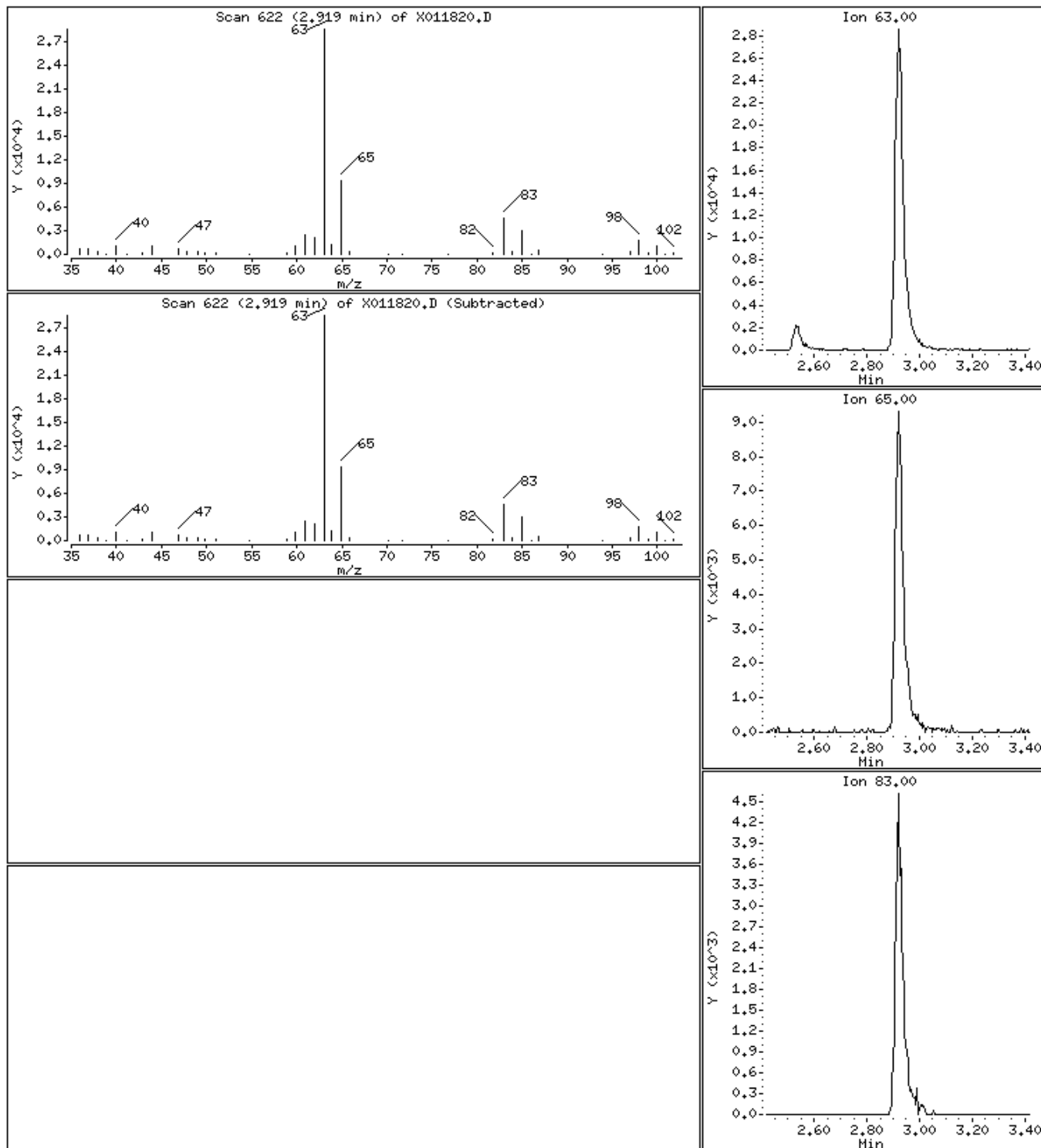
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 8.20 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D

Page 6

Date : 18-JAN-2023 17:45

Client ID: HS23010794-04

Instrument: voa6.i

Sample Info: HS23010794-04;HS23010794-04;;;

Purge Volume: 5.0

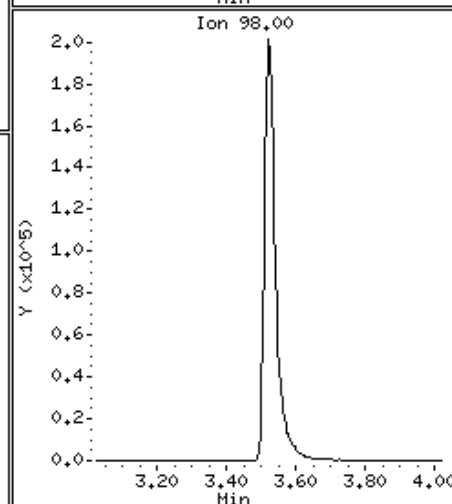
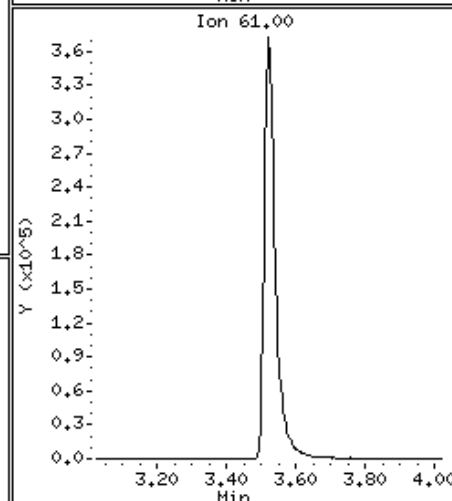
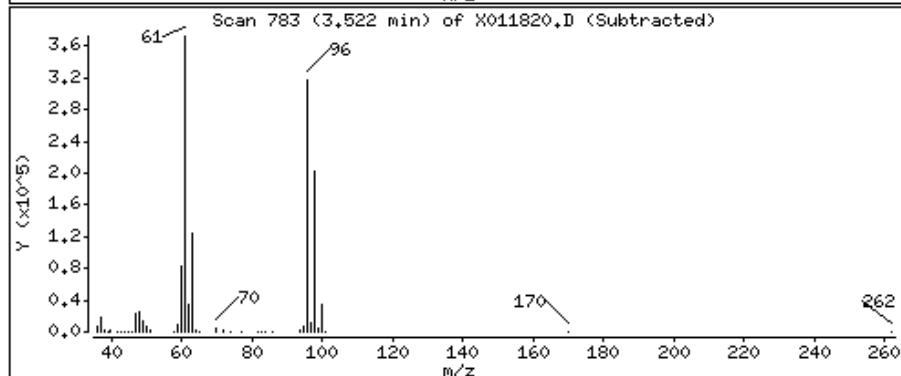
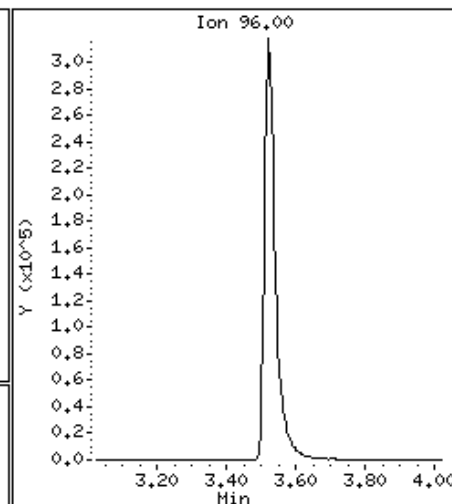
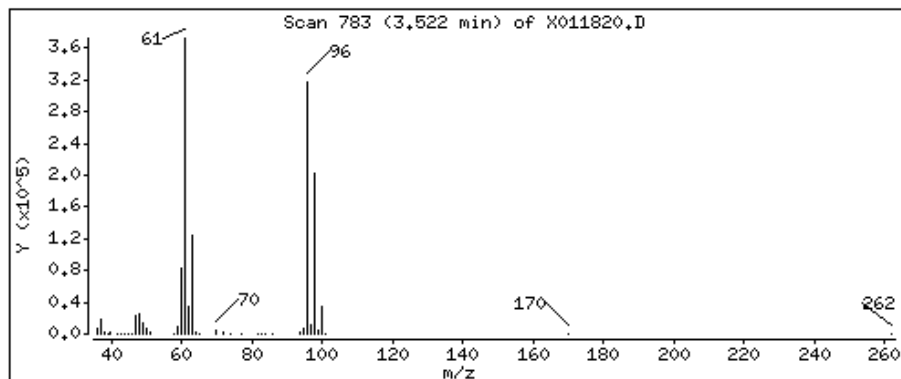
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 130.54 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D

Page 7

Date : 18-JAN-2023 17:45

Client ID: HS23010794-04

Instrument: voa6.i

Sample Info: HS23010794-04;HS23010794-04;;;

Purge Volume: 5.0

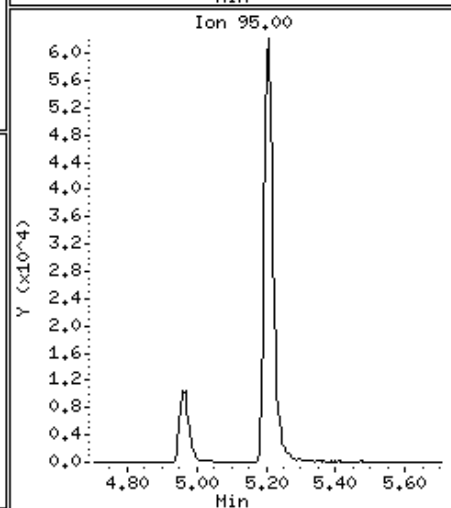
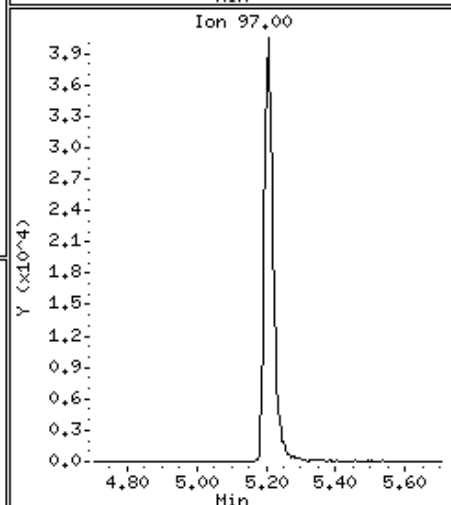
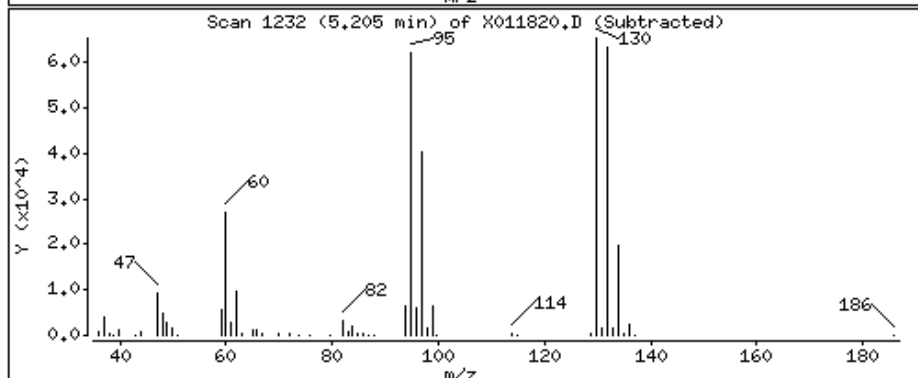
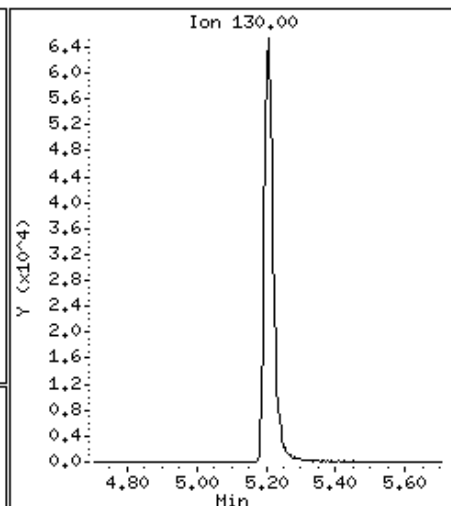
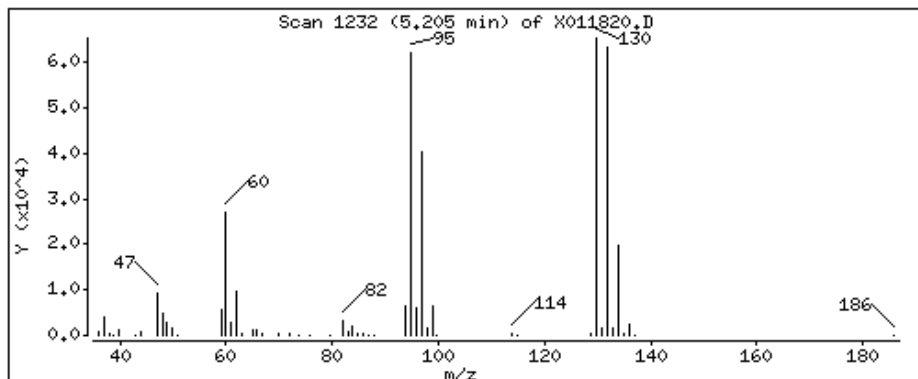
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 23.94 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D

Page 8

Date : 18-JAN-2023 17:45

Client ID: HS23010794-04

Instrument: voa6.i

Sample Info: HS23010794-04;HS23010794-04;;

Purge Volume: 5.0

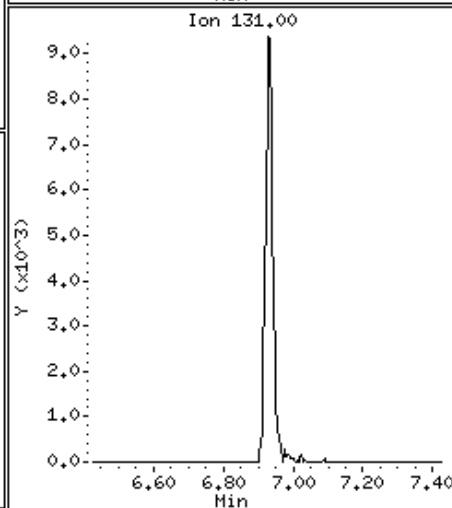
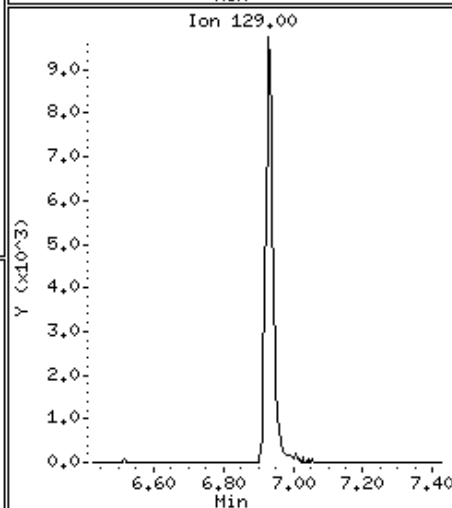
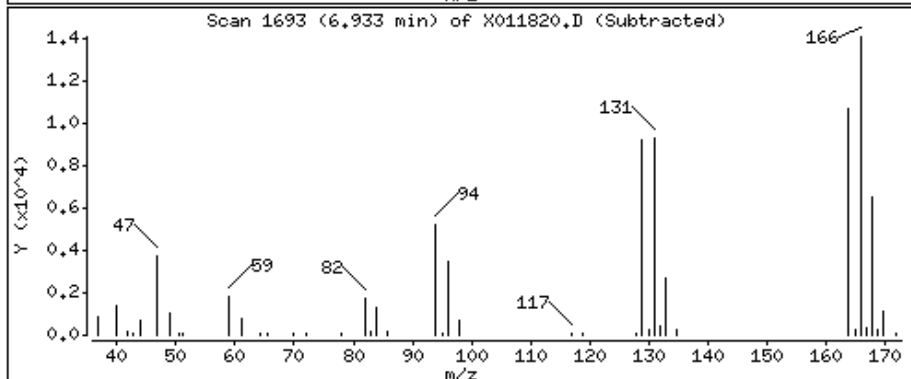
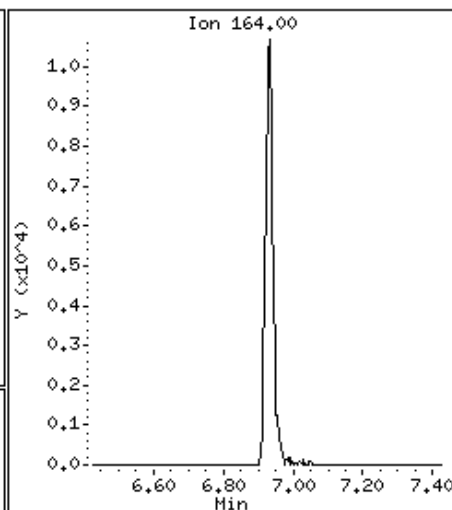
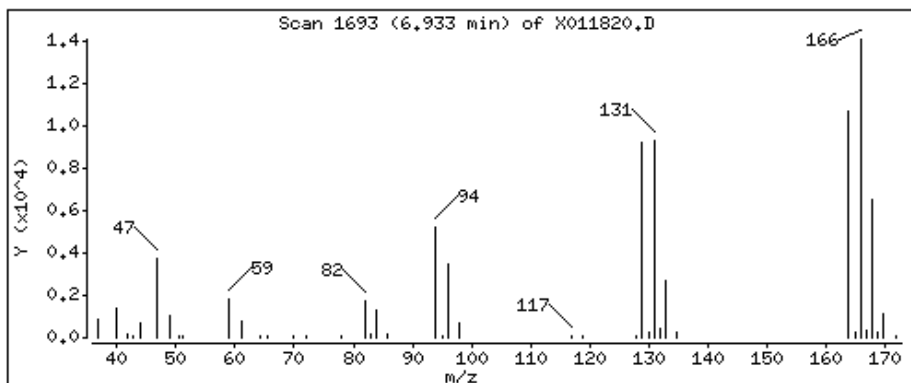
Operator: PC

Column phase: DB624

Column diameter: 0.18

56 Tetrachloroethene

Concentration: 4.29 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011820.D
Inj Date : 18-JAN-2023 17:45
InstruID : voa6.i
LabSampID : HS23010794-04

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011821.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011821.D
 Lab Smp Id: HS23010794-05 Client Smp ID: HS23010794-05
 Inj Date : 18-JAN-2023 18:06
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-05;HS23010794-05;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)	537674	50.0000		
5 Vinyl Chloride	62		1.141	1.141	(0.273)	56004	11.9237	11.92	
11 1,1-Dichloroethene	96		1.910	1.910	(0.457)	293644	71.9591	71.95	
22 1,1-Dichloroethane	63		2.922	2.918	(0.699)	136900	17.0800	17.07	
27 cis-1,2-Dichloroethene	96		3.529	3.521	(0.845)	8127	1.46221	1.46(a)	
\$ 30 Dibromofluoromethane	113		4.095	4.095	(0.980)	235584	45.6171	45.61	
\$ 35 1,2-Dichloroethane-d4	65		4.466	4.466	(1.069)	260649	47.8445	47.84	
* 36 1,4-Difluorobenzene	114		4.965	4.965	(1.000)	753622	50.0000		
* 47 Chlorobenzene-d5	117		7.671	7.667	(1.000)	661783	50.0000		
\$ 48 Toluene-d8	98		6.385	6.385	(0.832)	872920	53.3794	53.37	
\$ 69 4-Bromofluorobenzene	95		8.687	8.687	(1.132)	291325	47.6630	47.66	
* 70 1,4-Dichlorobenzene-d4	152		9.662	9.662	(1.000)	330570	50.0000		
M 94 1,2-Dichloroethylene (total)	96					8127	1.46221	1.46(a)	

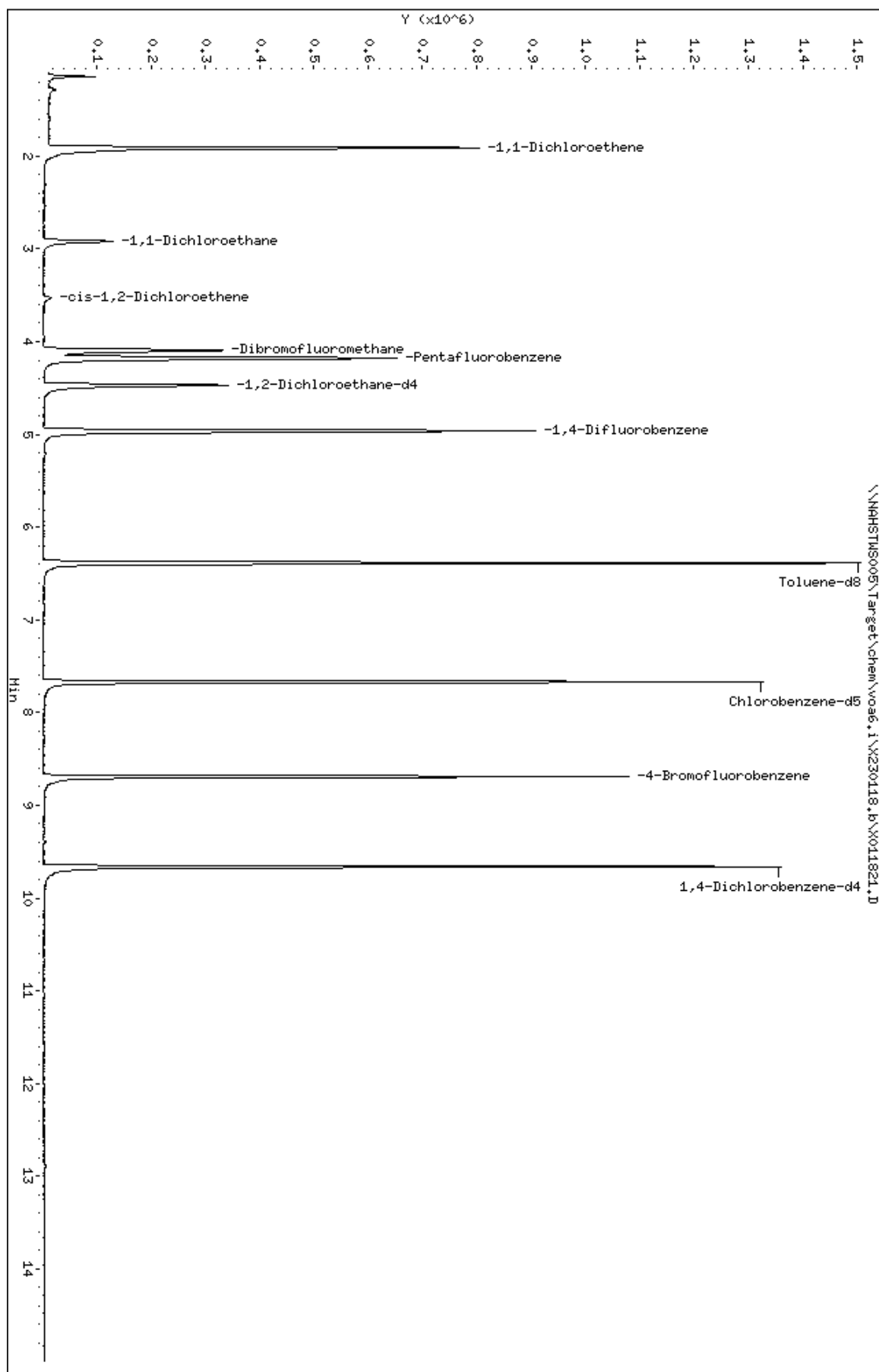
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.1\X230118.b\X011821.D
Date : 18-JAN-2023 18:06
Client ID: HS23010794-05
Sample Info: HS23010794-05\HS23010794-05;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.1
Operator: PC
Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011821.D

Page 2

Date : 18-JAN-2023 18:06

Client ID: HS23010794-05

Instrument: voa6.i

Sample Info: HS23010794-05;HS23010794-05;;;

Purge Volume: 5.0

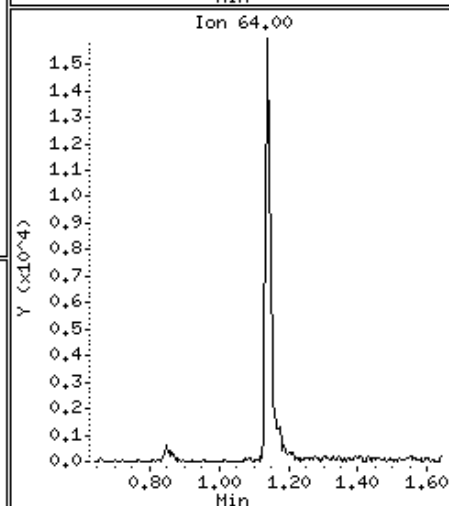
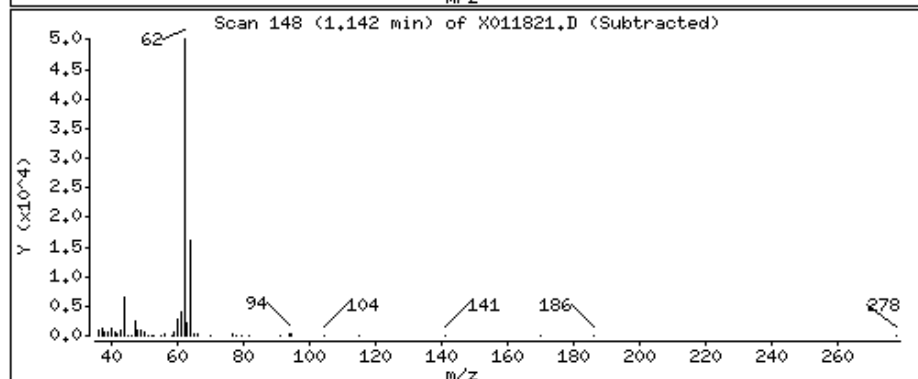
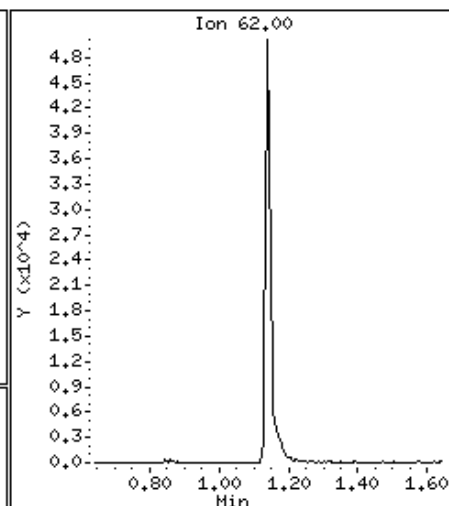
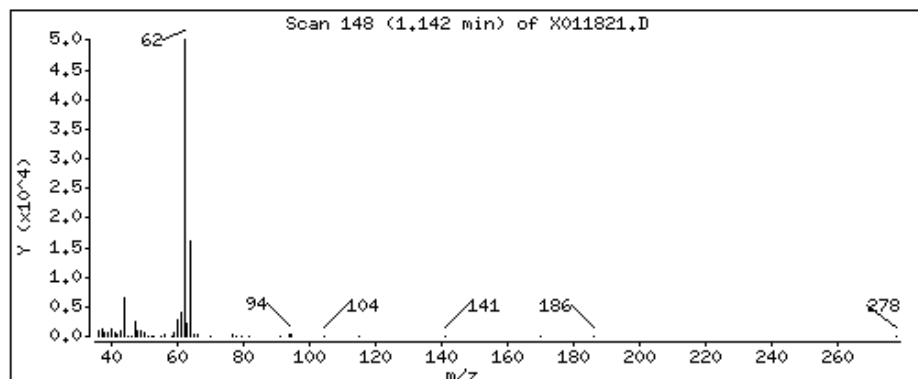
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 11.92 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011821.D

Page 3

Date : 18-JAN-2023 18:06

Client ID: HS23010794-05

Instrument: voa6.i

Sample Info: HS23010794-05;HS23010794-05;;

Purge Volume: 5.0

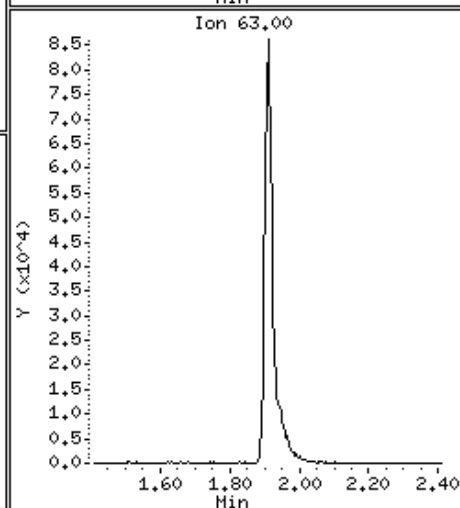
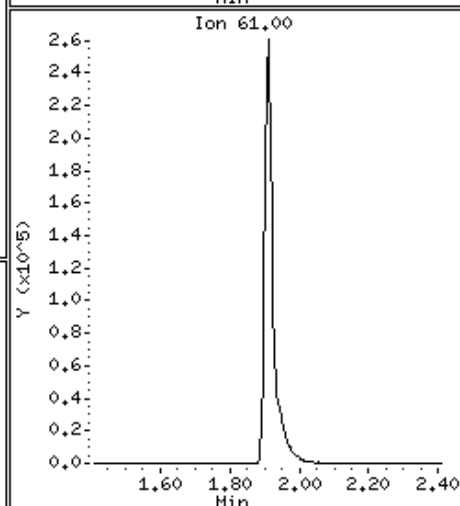
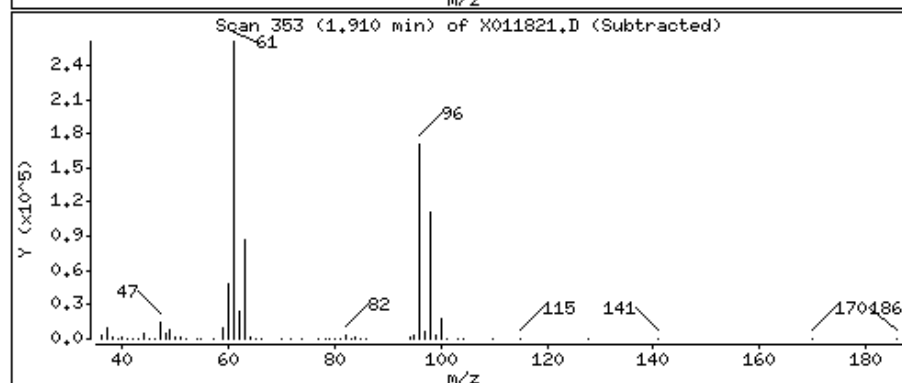
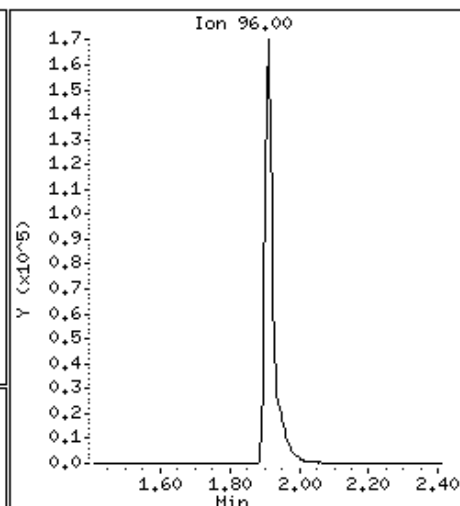
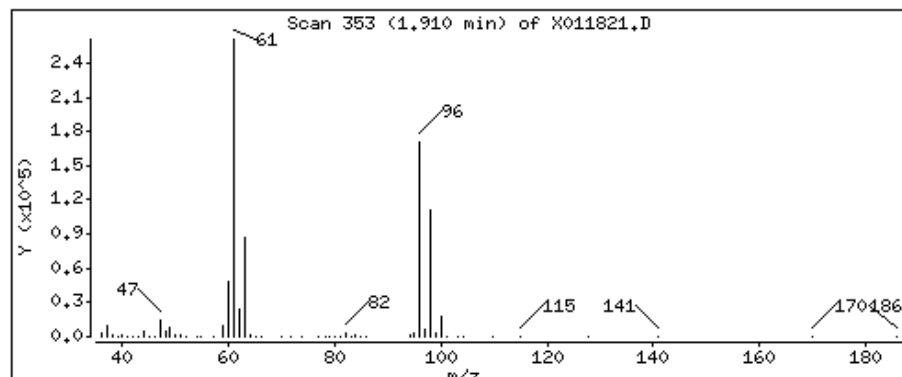
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 71.95 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011821.D

Page 4

Date : 18-JAN-2023 18:06

Client ID: HS23010794-05

Instrument: voa6.i

Sample Info: HS23010794-05;HS23010794-05;;

Purge Volume: 5.0

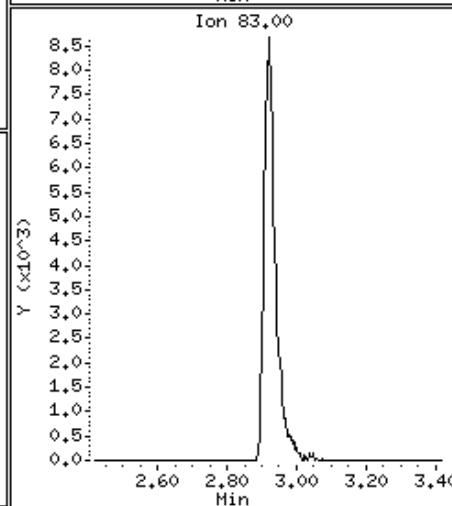
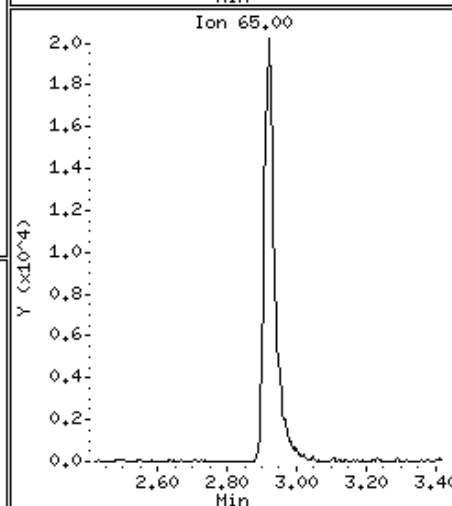
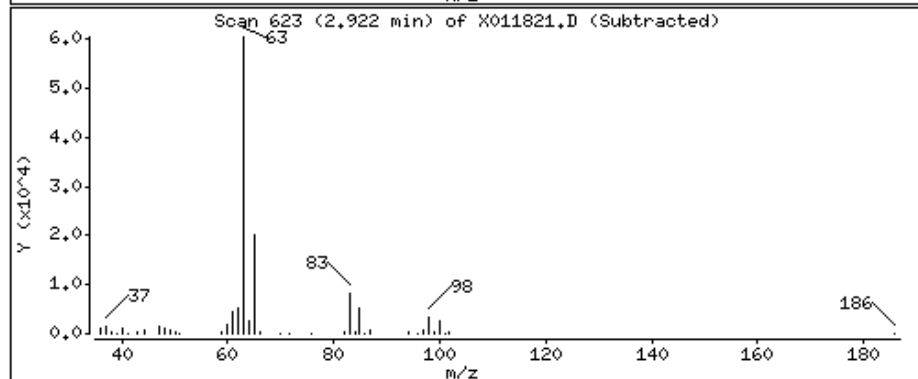
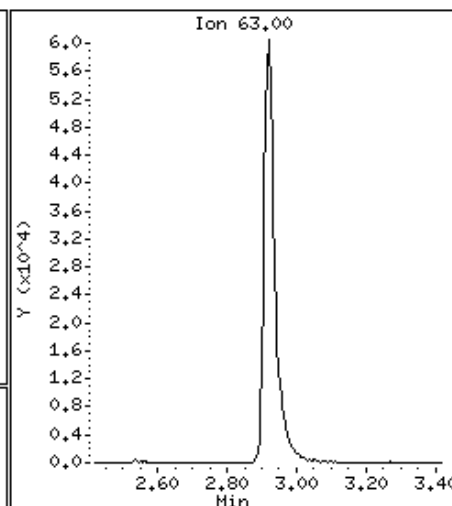
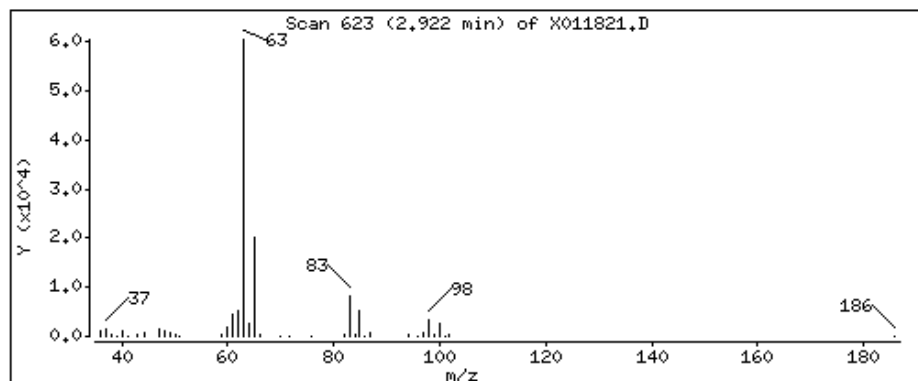
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 17.07 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011821.D

Page 5

Date : 18-JAN-2023 18:06

Client ID: HS23010794-05

Instrument: voa6.i

Sample Info: HS23010794-05;HS23010794-05;;;

Purge Volume: 5.0

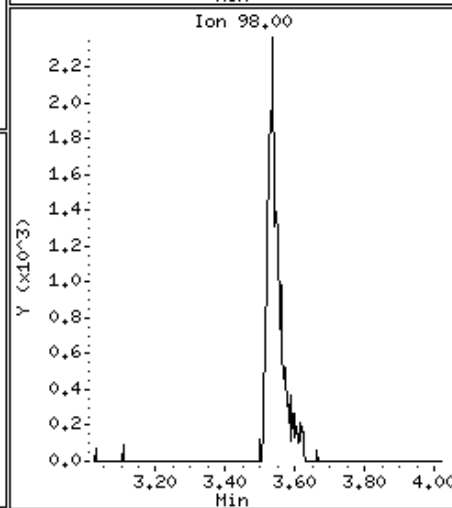
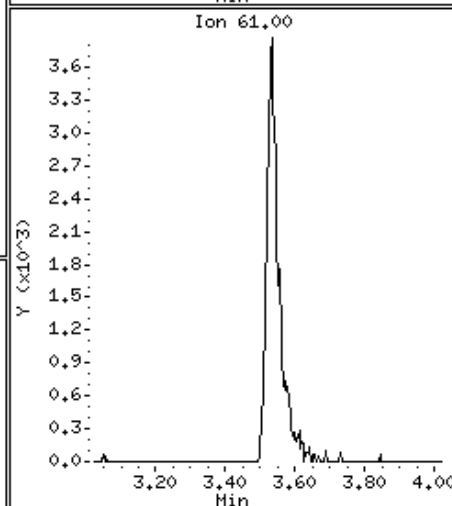
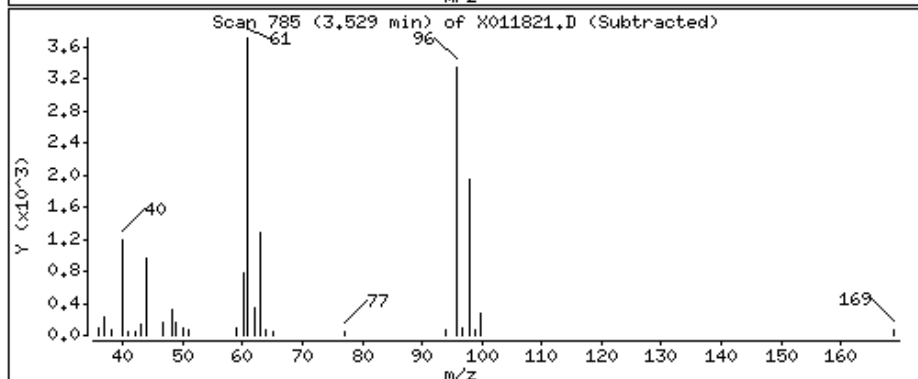
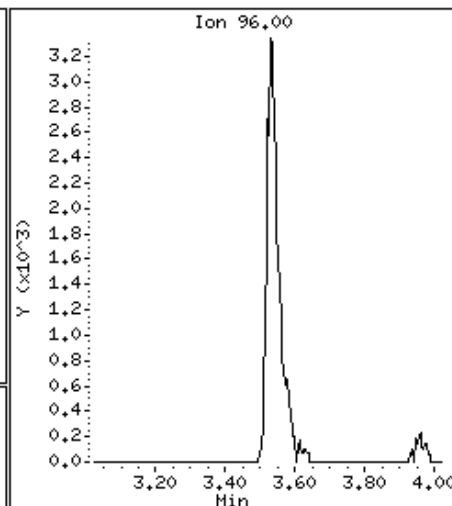
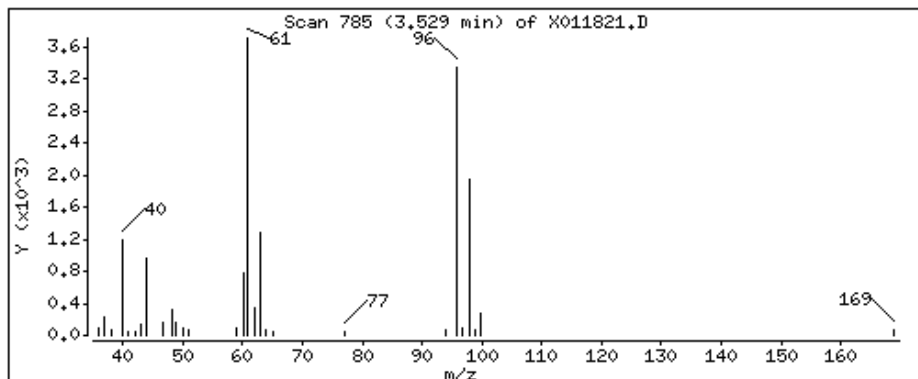
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 1.46 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011821.D
Inj Date : 18-JAN-2023 18:06
InstruID : voa6.i
LabSampID : HS23010794-05

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011822.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011822.D
 Lab Smp Id: HS23010794-06 Client Smp ID: HS23010794-06
 Inj Date : 18-JAN-2023 18:27
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-06;HS23010794-06;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.177	4.177	(1.000)	533917	50.0000		
5 Vinyl Chloride	62		1.141	1.141	(0.273)	56750	12.1675	12.16	
11 1,1-Dichloroethene	96		1.909	1.910	(0.457)	309258	76.3187	76.31	
22 1,1-Dichloroethane	63		2.918	2.918	(0.699)	142011	17.8423	17.84	
27 cis-1,2-Dichloroethene	96		3.529	3.521	(0.845)	7636	1.38354	1.38(a)	
\$ 30 Dibromofluoromethane	113		4.095	4.095	(0.980)	231483	45.1367	45.13	
\$ 35 1,2-Dichloroethane-d4	65		4.470	4.466	(1.070)	258021	47.6962	47.69	
* 36 1,4-Difluorobenzene	114		4.965	4.965	(1.000)	749765	50.0000		
* 47 Chlorobenzene-d5	117		7.671	7.667	(1.000)	662481	50.0000		
\$ 48 Toluene-d8	98		6.385	6.385	(0.832)	870301	53.1632	53.16	
\$ 69 4-Bromofluorobenzene	95		8.691	8.687	(1.133)	293717	48.0033	48.00	
* 70 1,4-Dichlorobenzene-d4	152		9.662	9.662	(1.000)	336747	50.0000		
M 94 1,2-Dichloroethylene (total)	96					7636	1.38354	1.38(a)	

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011822.D

Date: 18-JAN-2023 18:27

Client ID: HS23010794-06

Sample Info: HS23010794-06;HS23010794-06;;

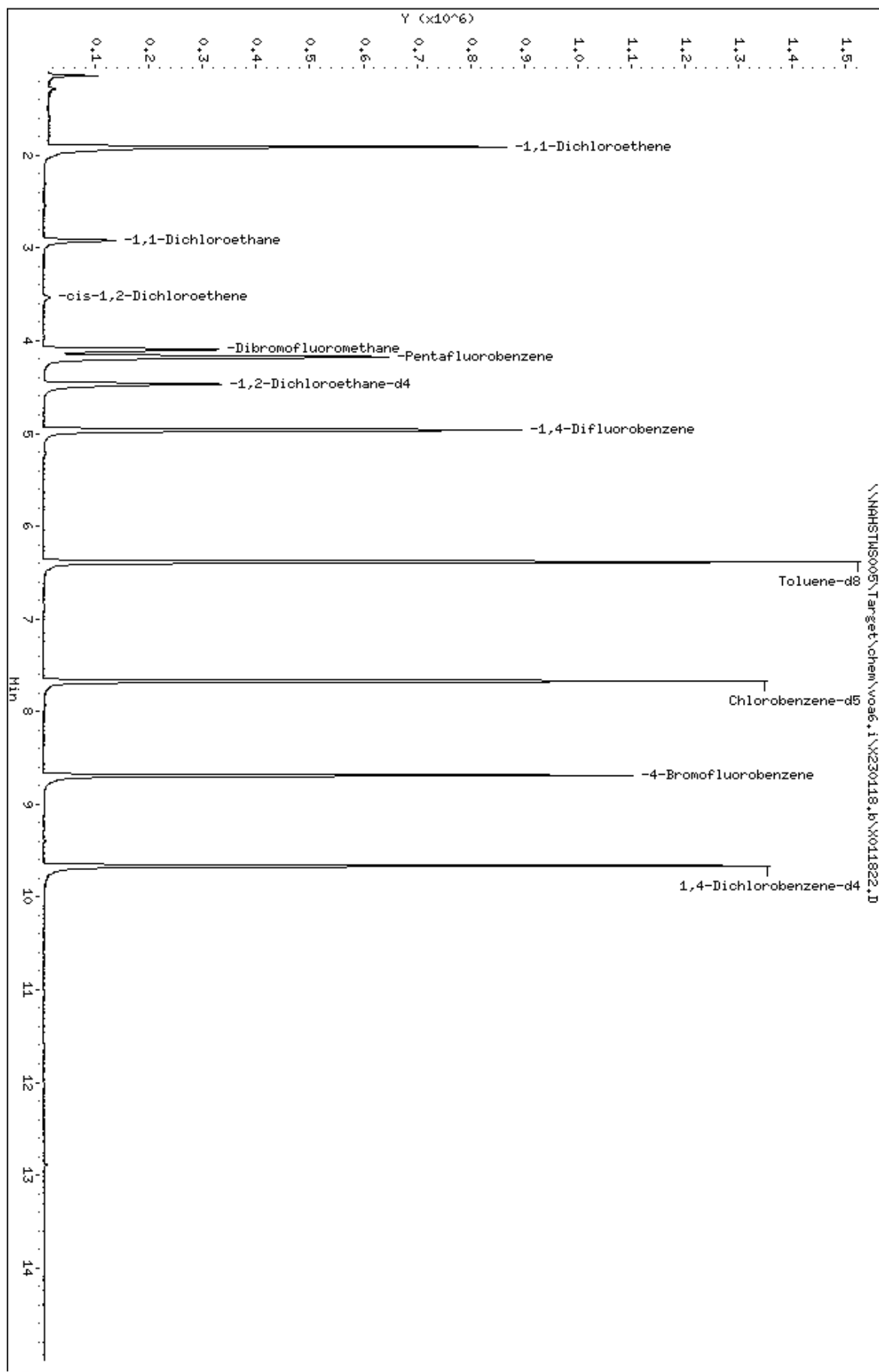
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011822.D

Page 2

Date : 18-JAN-2023 18:27

Client ID: HS23010794-06

Instrument: voa6.i

Sample Info: HS23010794-06;HS23010794-06;;;

Purge Volume: 5.0

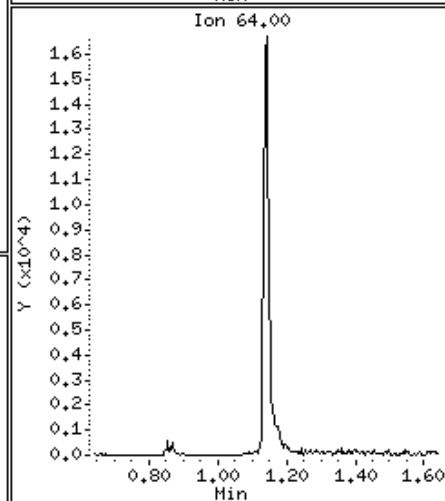
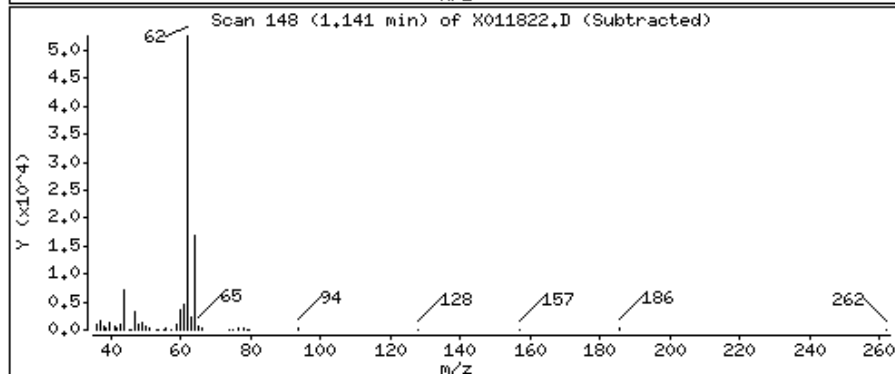
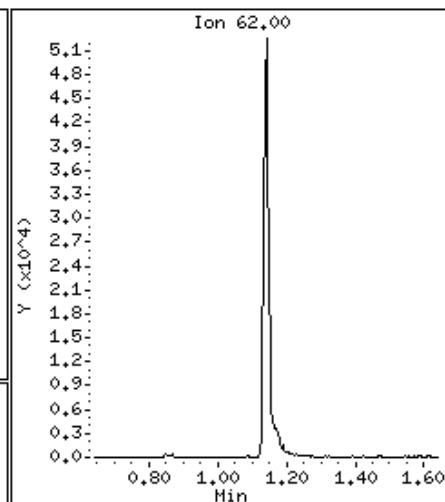
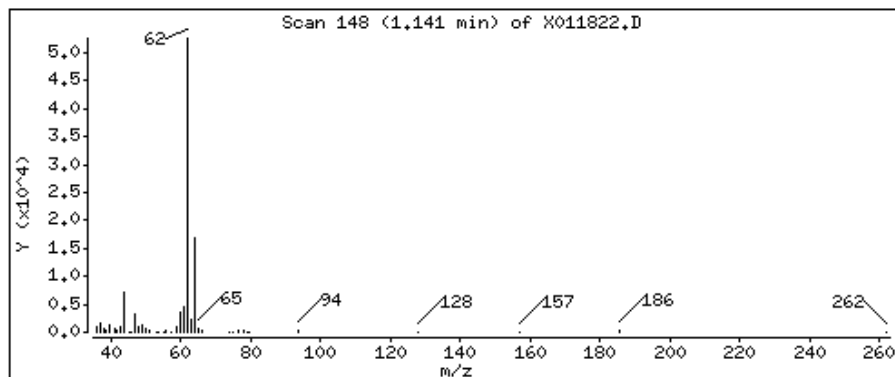
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 12.16 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011822.D

Page 3

Date : 18-JAN-2023 18:27

Client ID: HS23010794-06

Instrument: voa6.i

Sample Info: HS23010794-06;HS23010794-06;;;

Purge Volume: 5.0

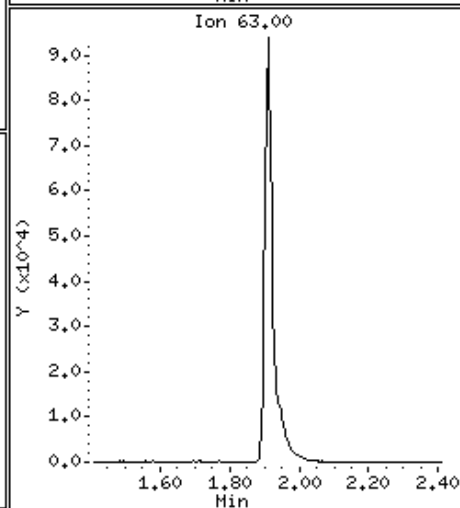
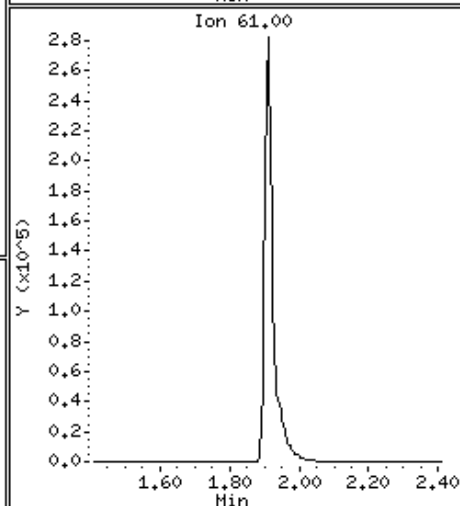
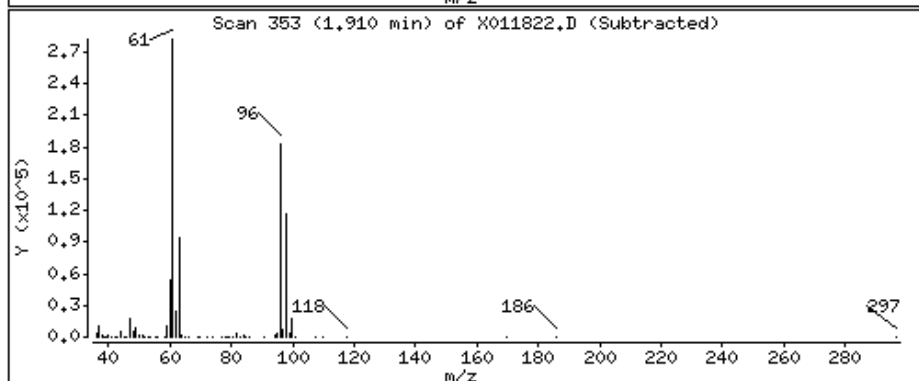
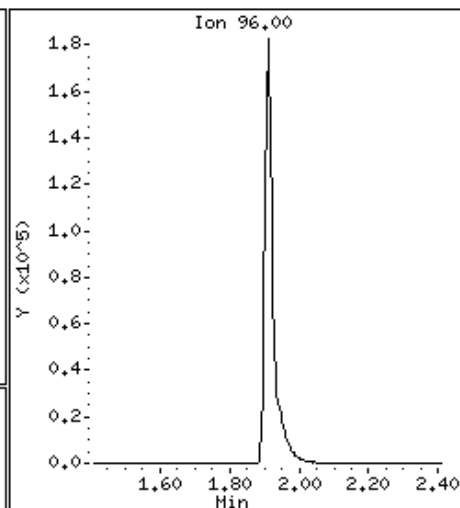
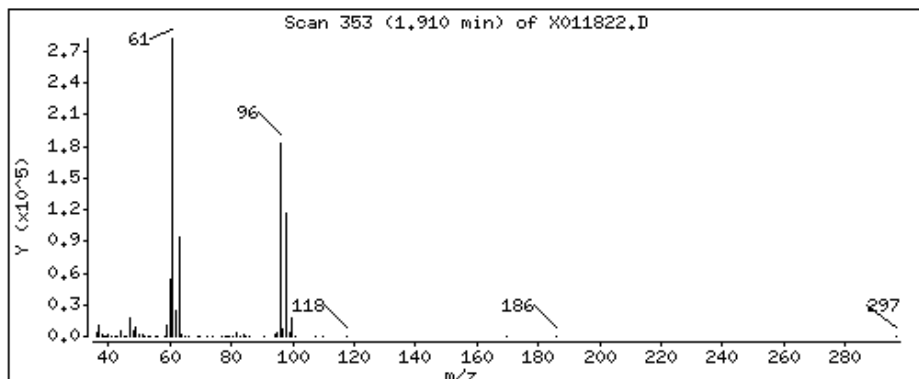
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 76.31 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011822.D

Page 4

Date : 18-JAN-2023 18:27

Client ID: HS23010794-06

Instrument: voa6.i

Sample Info: HS23010794-06;HS23010794-06;;;

Purge Volume: 5.0

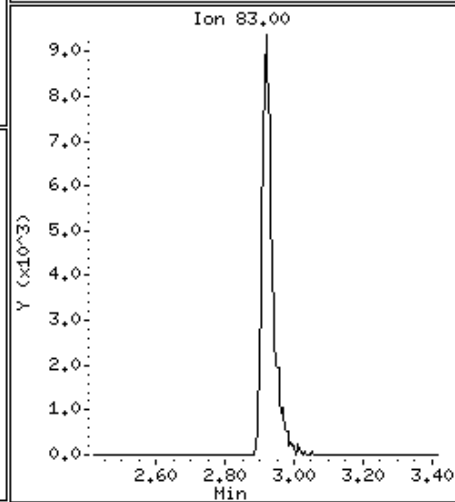
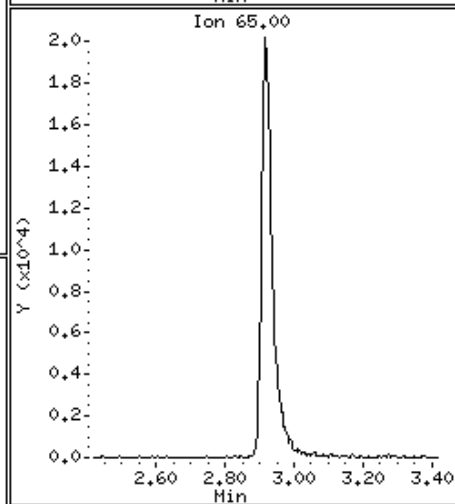
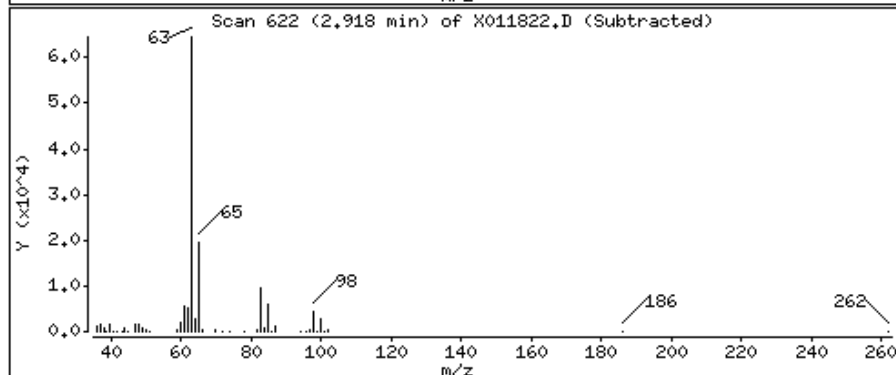
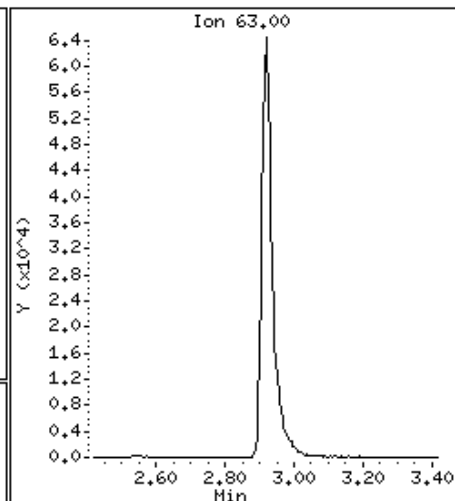
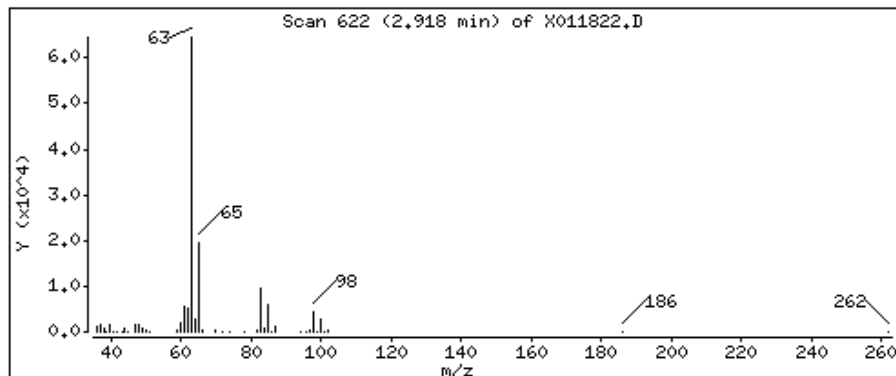
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 17.84 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011822.D

Page 5

Date : 18-JAN-2023 18:27

Client ID: HS23010794-06

Instrument: voa6.i

Sample Info: HS23010794-06;HS23010794-06;;;

Purge Volume: 5.0

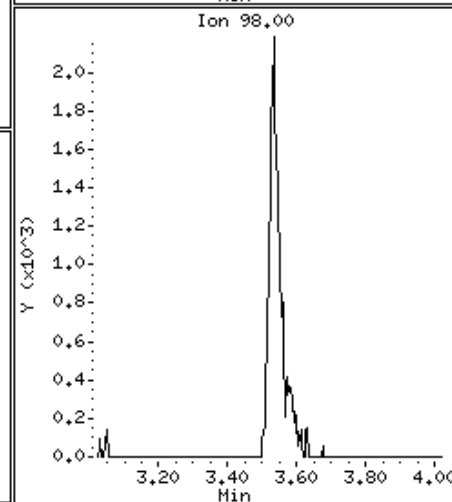
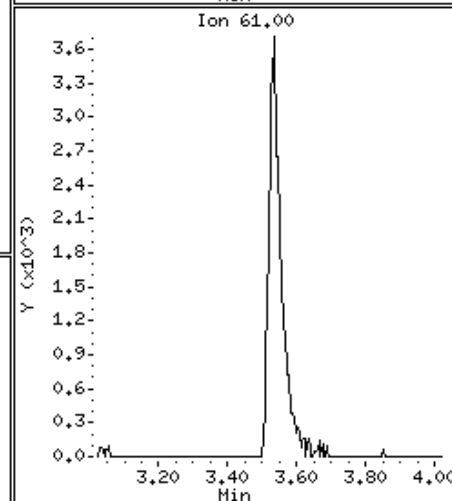
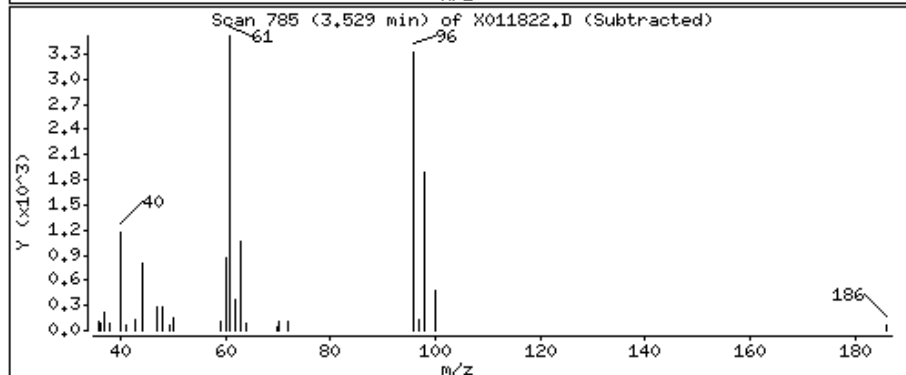
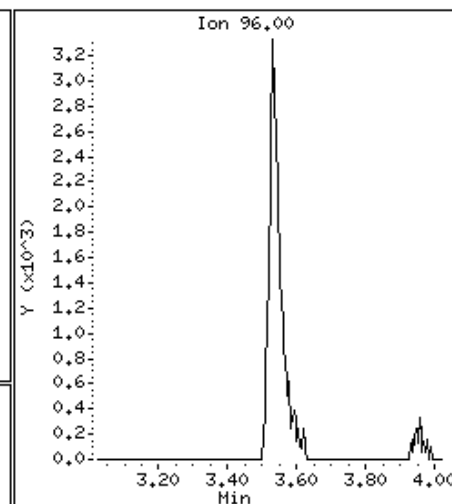
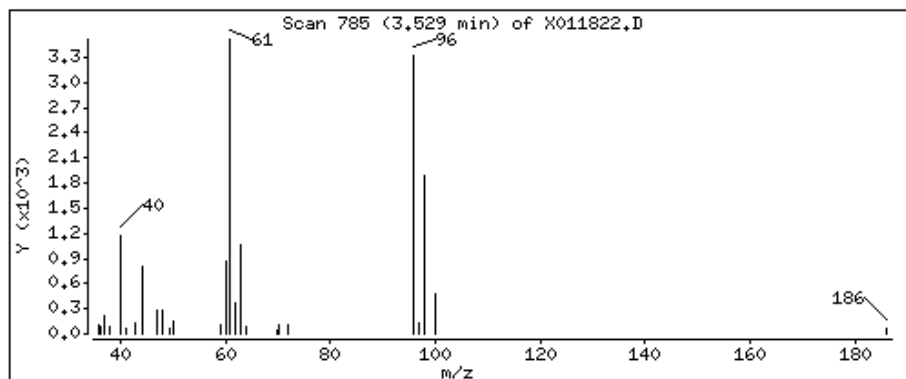
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 1.38 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011822.D
Inj Date : 18-JAN-2023 18:27
InstruID : voa6.i
LabSampID : HS23010794-06

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011823.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011823.D
 Lab Smp Id: HS23010794-07 Client Smp ID: HS23010794-07
 Inj Date : 18-JAN-2023 18:48
 Operator : PC Inst ID: voa6.i
 Smp Info : HS23010794-07;HS23010794-07;;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.177	(1.000)	546501	50.0000	
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	239184	45.5660	45.56
\$ 35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	265542	47.9547	47.95
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	772309	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	692960	50.0000	
\$ 48 Toluene-d8	98	6.386	6.385	(0.833)	897189	52.3951	52.39
\$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	307403	48.0303	48.03
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	363414	50.0000	



Data File: \\NAHSTMS0005\Target\chem\voa6.i\X230118.b\X011823.D

Date: 18-JAN-2023 18:48

Client ID: HS23010794-07

Sample Info: HS23010794-07;HS23010794-07;;

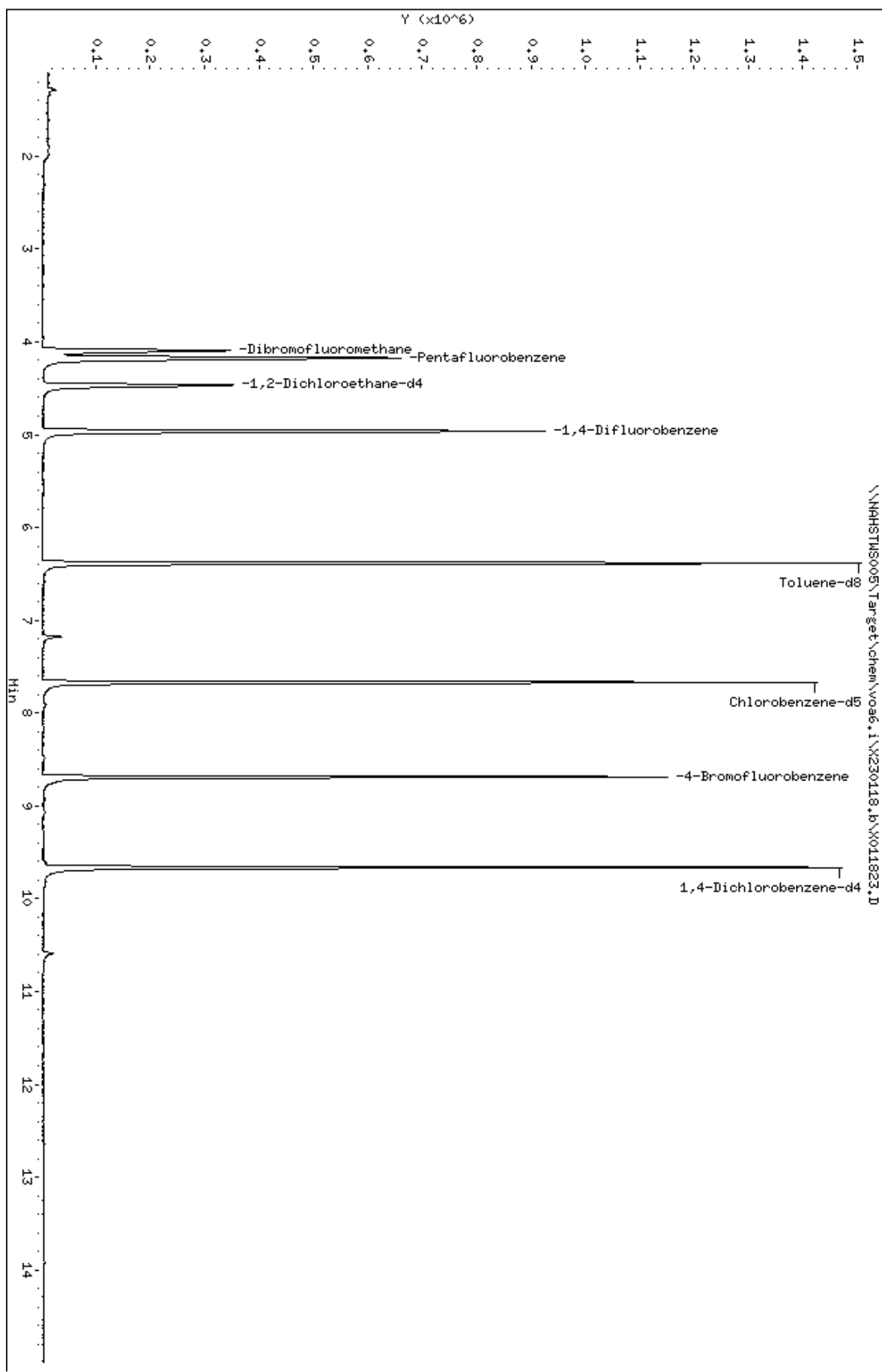
Purge Volume: 5.0

Column phase: DB624

Instrument: voa6.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011823.D
Inj Date : 18-JAN-2023 18:48
InstruID : voa6.i
LabSampID : HS23010794-07

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011830.D Page 1
 Report Date: 25-Jan-2023 10:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011830.D
 Lab Smp Id: CCV-END Client Smp ID: CCV-END
 Inj Date : 18-JAN-2023 21:16
 Operator : PC Inst ID: voa6.i
 Smp Info : CCV-END;CCV-END;2;;
 Misc Info : V6;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa6.i\X230118.b\8260W.m
 Meth Date : 25-Jan-2023 10:05 voa6.i Quant Type: ISTD
 Cal Date : 16-DEC-2022 14:04 Cal File: X121608.D
 Als bottle: 29 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.178	4.178	(1.000)	447898	50.0000		
135 1,4-Dioxane	88		5.598	5.598	(1.340)	45707	1000.00	1116.36	
140 1,3-Butadiene	54		1.160	1.160	(0.278)	136977	50.0000	44.55	
25 Methacrylonitrile	41		3.814	3.814	(0.913)	164930	50.0000	52.00	
12 Isobutyl Alcohol	43		4.672	4.672	(1.118)	557279	1000.00	1106.18	
13 Acetonitrile	39		2.195	2.195	(0.525)	188652	500.000	462.78	
14 Allyl Chloride	41		2.195	2.195	(0.525)	363937	50.0000	46.87	
4 Propionitrile	54		3.645	3.645	(0.873)	240649	500.000	526.56	
72 trans-1,4-Dichloro-2-butene	53		8.890	8.890	(1.159)	74831	50.0000	52.82	
194 Acetaldehyde	44		1.209	1.209	(0.289)	89120	200.000	327.39	
23 Chloroprene	53		1.767	1.767	(0.423)	66877	50.0000	43.91(M)	
130 Ethyl Acetate	43		3.649	3.649	(0.873)	193509	50.0000	55.36	
40 Methyl Methacrylate	41		5.602	5.602	(1.341)	169697	50.0000	55.56	
49 Ethyl Methacrylate	69		6.708	6.708	(1.351)	178626	50.0000	55.65	
139 Diethyl ether	59		1.752	1.752	(0.420)	136776	50.0000	45.70	
142 Tetrahydrofuran	42		3.840	3.840	(0.919)	59166	100.000	106.45	
156 Diisopropyl ether	45		2.997	2.997	(0.717)	547415	50.0000	47.11	
166 1,2,3-Trimethylbenzene	105		9.729	9.729	(1.007)	877682	50.0000	46.97	
2 Dichlorodifluoromethane	85		0.969	0.969	(0.232)	127329	50.0000	40.71	
3 Chloromethane	50		1.074	1.074	(0.257)	176072	50.0000	43.73	



5 Vinyl Chloride	62	1.141	1.141 (0.273)	182235	50.0000	46.57
6 Bromomethane	94	1.336	1.336 (0.320)	138905	50.0000	47.04



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011830.D Page 2
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
7 Chloroethane	64	1.400	1.400	(0.335)	123205	50.0000	45.24
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	270838	50.0000	49.46
9 Acrolein	56	1.441	1.441	(0.345)	22292	100.000	73.54
10 Acetone	43	1.970	1.970	(0.472)	138307	100.000	110.05
11 1,1-Dichloroethene	96	1.910	1.910	(0.457)	165433	50.0000	48.66
15 Iodomethane	142	2.022	2.022	(0.484)	404210	100.000	90.89
16 Acrylonitrile	53	2.528	2.528	(0.605)	125745	100.000	109.06
17 Methylene Chloride	84	2.300	2.300	(0.550)	215372	50.0000	46.18
18 Methyl tert-butyl ether	73	2.528	2.528	(0.605)	535491	50.0000	48.12
19 Carbon Disulfide	76	2.067	2.067	(0.495)	843910	100.000	94.88
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	183537	50.0000	48.24
21 Vinyl Acetate	43	2.993	2.993	(0.716)	895518	100.000	91.68
22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	322602	50.0000	48.31
24 2-Butanone	43	3.570	3.570	(0.855)	144545	100.000	108.17
26 2,2-Dichloropropane	77	3.503	3.503	(0.839)	245755	50.0000	43.34
27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	219054	50.0000	47.31
28 Chloroform	83	3.900	3.900	(0.934)	367030	50.0000	49.04
29 Bromochloromethane	128	3.792	3.792	(0.908)	118417	50.0000	46.71
\$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	212404	50.0000	49.38
31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	294661	50.0000	49.62
32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	251574	50.0000	51.98
33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	291934	50.0000	52.27
34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	246590	50.0000	47.71
\$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	236780	50.0000	52.15
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	681617	50.0000	
37 Benzene	78	4.508	4.508	(0.908)	805367	50.0000	49.47
38 Trichloroethene	130	5.205	5.205	(1.048)	237254	50.0000	51.39
39 Bromodichloromethane	83	5.722	5.722	(1.153)	292391	50.0000	47.86
41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	202295	100.000	116.40
42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	213350	50.0000	49.27
44 Dibromomethane	93	5.553	5.553	(1.119)	144184	50.0000	48.99
45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	384274	100.000	109.55
46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	352781	50.0000	49.17
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	656244	50.0000	
\$ 48 Toluene-d8	98	6.386	6.386	(0.833)	803304	50.0000	49.53
50 Toluene	91	6.446	6.446	(0.841)	894247	50.0000	49.30
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	303871	50.0000	51.03
52 2-Hexanone	43	7.083	7.083	(0.924)	269380	100.000	112.87
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	175979	50.0000	48.35
54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	354972	50.0000	49.55
55 Dibromochloromethane	129	7.173	7.173	(0.935)	257036	50.0000	48.94
56 Tetrachloroethene	164	6.925	6.925	(0.903)	185769	50.0000	49.49
57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	231860	50.0000	50.96
58 1-Chlorohexane	55	7.694	7.694	(1.550)	170391	50.0000	51.72
59 Chlorobenzene	112	7.690	7.690	(1.003)	618944	50.0000	48.10
60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	235966	50.0000	49.28
61 Ethylbenzene	106	7.799	7.799	(1.017)	306368	50.0000	50.55
62 m,p-Xylenes	106	7.904	7.904	(1.031)	793032	100.000	101.50
63 o-Xylene	106	8.241	8.241	(1.075)	386744	50.0000	50.15
64 Styrene	104	8.260	8.260	(1.077)	683670	50.0000	52.89
66 Bromoform	173	8.410	8.410	(1.097)	183092	50.0000	50.32
67 Isopropylbenzene	105	8.560	8.560	(1.116)	941429	50.0000	53.43



68	1,1,2,2-Tetrachloroethane	83	8.837	8.837 (0.915)	286534	50.0000	46.33
\$ 69	4-Bromofluorobenzene	95	8.687	8.687 (1.133)	308986	50.0000	50.97



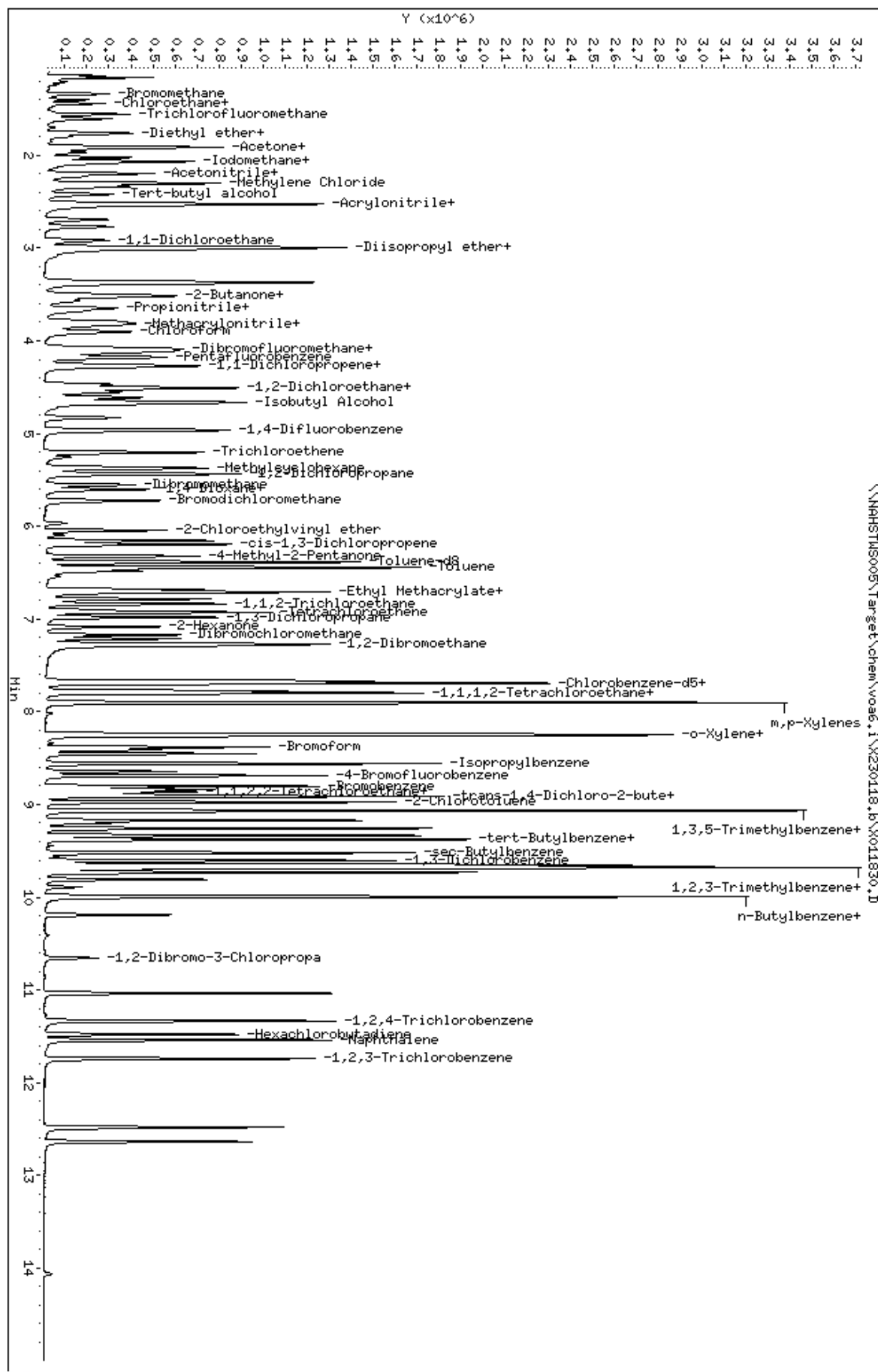
Data File: \\NAHSTWS005\Target\chem\voa6.i\X230118.b\X011830.D Page 3
 Report Date: 25-Jan-2023 10:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	387986	50.0000	
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	220346	50.0000	51.03(M)
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1115412	50.0000	51.90
74 Bromobenzene	156	8.803	8.803	(0.911)	303554	50.0000	47.68
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	837224	50.0000	52.73
76 2-Chlorotoluene	91	8.972	8.972	(0.929)	701393	50.0000	49.73
77 4-Chlorotoluene	91	9.070	9.070	(0.939)	830727	50.0000	51.67
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	686773	50.0000	52.84
79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	867018	50.0000	51.90
81 sec-Butylbenzene	105	9.519	9.519	(0.985)	937280	50.0000	54.20
82 p-Isopropyltoluene	119	9.651	9.651	(0.999)	851583	50.0000	54.96
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	533440	50.0000	50.48
84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	572648	50.0000	49.66
87 n-Butylbenzene	91	9.992	9.992	(1.034)	747521	50.0000	50.05
88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	545377	50.0000	50.12
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	50418	50.0000	50.99
90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	371288	50.0000	54.06
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	143533	50.0000	47.19
92 Naphthalene	128	11.540	11.540	(1.194)	852103	50.0000	54.53
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	346160	50.0000	52.63
M 94 1,2-Dichloroethylene (total)	96				402591	100.000	(a)
141 Cyclohexane	56	4.121	4.121	(0.987)	228359	50.0000	50.56
138 Freon TF	101	1.910	1.910	(0.457)	157541	50.0000	47.91
147 Methylcyclohexane	55	5.377	5.377	(1.083)	423021	50.0000	50.70
146 Methyl Acetate	43	2.225	2.225	(0.533)	111747	50.0000	55.44
148 Tert-Butyl alcohol	59	2.420	2.420	(0.579)	347621	1000.00	1120.85
149 Isopropyl Alcohol	45	2.086	2.086	(0.499)	188194	1000.00	1161.90

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa6.i\X230118.b\X011830.D
 Date : 18-JAN-2023 21:16
 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

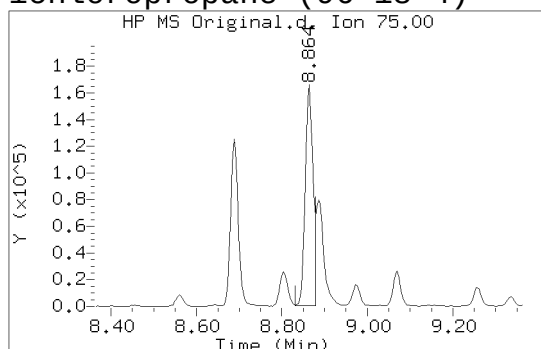


Data File : \\NAHSTWS005\\Target\\chem\\voa6.i\\X230118.b\\X011830.D
Inj Date : 18-JAN-2023 21:16
InstruID : voa6.i
LabSampID : CCV-END

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

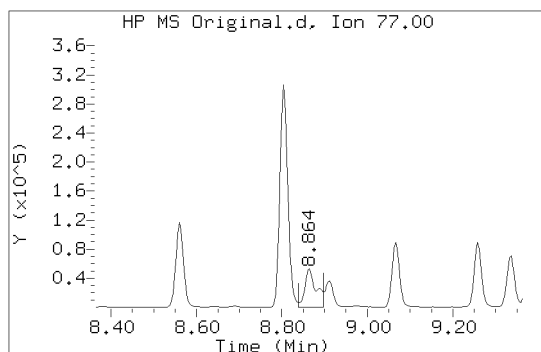
BEFORE

MASS
75
AREA
220346
HEIGHT
165857
25-Jan-2023
10:05
linh



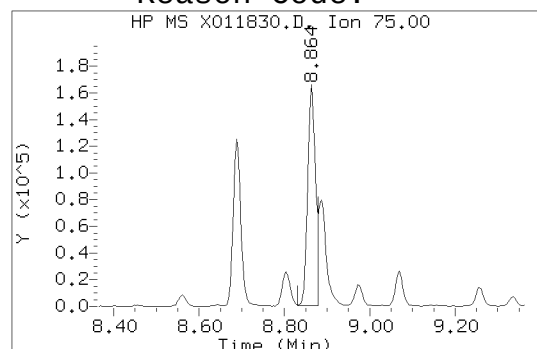
BEFORE

MASS
77
AREA
101903
HEIGHT
52916
25-Jan-2023
10:05
linh
pham



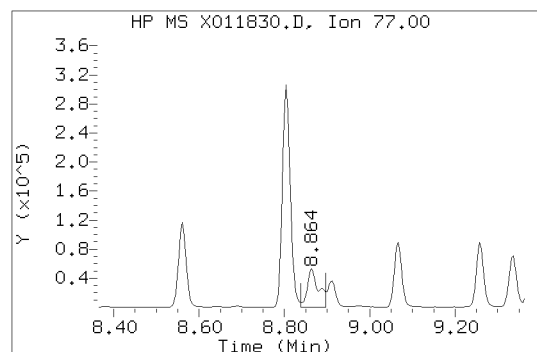
AFTER

MASS
75
AREA
220346
HEIGHT
165857
25-Jan-2023
10:05
linh



AFTER

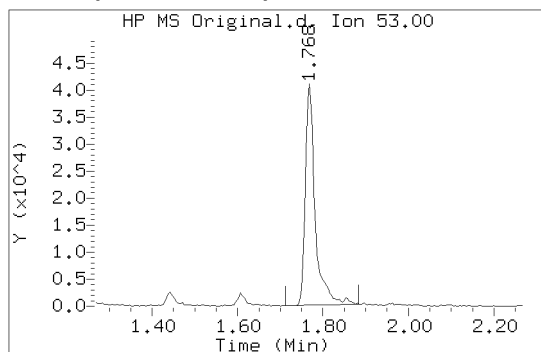
MASS
77
AREA
101903
HEIGHT
52916
25-Jan-2023
10:05
linh
pham



Chloroprene (126-99-8)

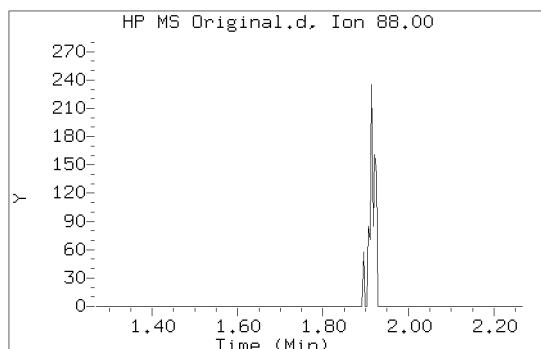
BEFORE

MASS
53
AREA
66877
HEIGHT
40890
25-Jan-2023
10:05
linh
pham



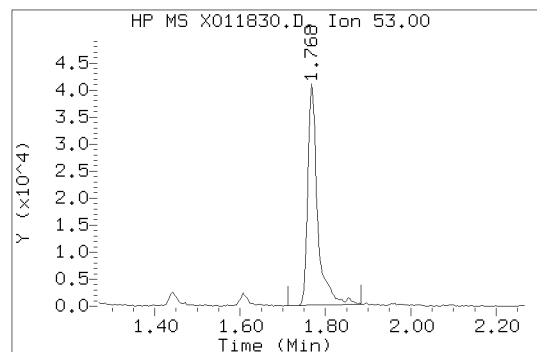
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Jan-2023
10:05
linh
pham



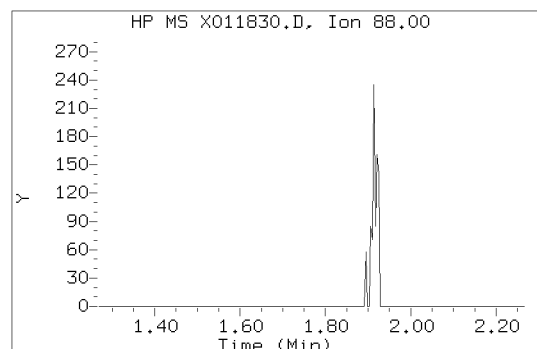
AFTER

MASS
53
AREA
66877
HEIGHT
40890
25-Jan-2023
10:05
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Jan-2023
10:05
linh
pham



HS23010794 - ME - ICP_W_DOD

ALS WO# HS23010794



FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.

Run ID: ICPMS07_426363

Project: LHAAP-58

Instrument: ICPMS07

WorkOrder: HS23010794

Method:

Start Date: 24-Jan-2023

End Date: 24-Jan-2023

Sample No.	D/F	Time	FileID	Analyses
ICPMS07_426363_Tune	1	24-Jan-2023 00:00	ICPMS07_426363_Tune_1	
CAL BLK	1	24-Jan-2023 14:06	011CALB.d_7085584	AS
2/10/200	1	24-Jan-2023 14:08	012CALS.d_7085585	AS
5/25/500	1	24-Jan-2023 14:10	013CALS.d_7085586	AS
10/50/100	1	24-Jan-2023 14:12	014CALS.d_7085587	AS
100/500/10K	1	24-Jan-2023 14:13	015CALS.d_7085588	AS
200/1000/20K	1	24-Jan-2023 14:15	016CALS.d_7085589	AS
ICV	1	24-Jan-2023 14:21	019_ICV.d_7085592	AS
LLICV2	1	24-Jan-2023 14:23	020LCV2.d_7085593	AS
LLICV5	1	24-Jan-2023 14:25	021LCV5.d_7085594	AS
ICB	1	24-Jan-2023 14:27	022_ICB.d_7085595	AS
ICSA	1	24-Jan-2023 14:30	024ICSA.d_7085623	AS
ICSAB	1	24-Jan-2023 14:32	025ICSB.d_7085624	AS
CCB 1	1	24-Jan-2023 14:41	029_CCB.d_7085722	AS
CCV 1	1	24-Jan-2023 14:43	030_CCV.d_7085723	AS
MBLK-188726	1	24-Jan-2023 14:45	031SMPL.d_7085724	AS
LCS-188726	1	24-Jan-2023 14:47	032SMPL.d_7085725	AS
ZZZZZSD	5	24-Jan-2023 14:51	034SMPL.d_7085727	AS
ZZZZZMS	1	24-Jan-2023 14:53	035SMPL.d_7085728	AS
ZZZZZMSD	1	24-Jan-2023 14:55	036SMPL.d_7085729	AS
ZZZZZPDS	1	24-Jan-2023 14:57	037SMPL.d_7085730	AS
CCV 2	1	24-Jan-2023 15:06	041_CCV.d_7085734	AS
CCB 2	1	24-Jan-2023 15:08	042_CCB.d_7085735	AS
LHSMW06_011323	1	24-Jan-2023 15:27	052SMPL.d_7085792	AS
CCV 3	1	24-Jan-2023 15:31	053_CCV.d_7085793	AS
CCB 3	1	24-Jan-2023 15:33	054_CCB.d_7085794	AS
ZZZZZSD	50	24-Jan-2023 16:01	059SMPL.d_7085955	
ZZZZZPDS	10	24-Jan-2023 16:03	060SMPL.d_7085956	
CCV 4	1	24-Jan-2023 16:06	062_CCV.d_7085958	AS
CCB 4	1	24-Jan-2023 16:08	063_CCB.d_7085959	AS
CCV 5	1	24-Jan-2023 16:27	073_CCV.d_7086003	AS
CCB 5	1	24-Jan-2023 16:29	074_CCB.d_7086004	AS



Form 2 - Initial and Continuing Calibration Verification**Client:** Bhate Environmental Associates, Inc.

Run ID: ICPMS07_426363

Project: LHAAP-58

Instrument: ICPMS07

WorkOrder: HS23010794

Method: SW6020A

ICV	Date: 24-Jan-2023 14:21	Seq: 7085592	ICV	Units: ug/L	
Analyte	True	Found	%R	Control Limits	Flag
Arsenic	100	101.723	102	90-110	
CCV1	Date: 24-Jan-2023 14:43	Seq: 7085723	CCV	Units: ug/L	
Analyte	True	Found	%R	Control Limits	Flag
Arsenic	100	100.761	101	90-110	
CCV2	Date: 24-Jan-2023 15:06	Seq: 7085734	CCV	Units: ug/L	
Analyte	True	Found	%R	Control Limits	Flag
Arsenic	100	101.512	102	90-110	
CCV3	Date: 24-Jan-2023 15:31	Seq: 7085793	CCV	Units: ug/L	
Analyte	True	Found	%R	Control Limits	Flag
Arsenic	100	100.172	100	90-110	
CCV4	Date: 24-Jan-2023 16:06	Seq: 7085958	CCV	Units: ug/L	
Analyte	True	Found	%R	Control Limits	Flag
Arsenic	100	99.676	100	90-110	
CCV5	Date: 24-Jan-2023 16:27	Seq: 7086003	CCV	Units: ug/L	
Analyte	True	Found	%R	Control Limits	Flag
Arsenic	100	96.133	96	90-110	



Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.

Run ID: ICPMS07_426363

Project: LHAAP-58

Instrument: ICPMS07

WorkOrder: HS23010794

Method: SW6020A

ICB	Date: 24-Jan-2023 14:27	Seq: 7085595	ICB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	5	0.4	5	U
CCB1	Date: 24-Jan-2023 14:41	Seq: 7085722	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U
MBLK-188726	Date: 24-Jan-2023 14:45	Seq: 7085724	MBLK	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	5	0.4	5	U
CCB2	Date: 24-Jan-2023 15:08	Seq: 7085735	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U
CCB3	Date: 24-Jan-2023 15:33	Seq: 7085794	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U
CCB4	Date: 24-Jan-2023 16:08	Seq: 7085959	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U
CCB5	Date: 24-Jan-2023 16:29	Seq: 7086004	CCB	Units: ug/L
Analyte	Result	MDL	Report Limit	Qual
Arsenic	2	0.4	2	U



Form 4 - ICP Interference Check Sample**Client:** Bhate Environmental Associates, Inc.

Run ID:ICPMS07_426363

Project: LHAAP-58

Instrument:ICPMS07

WorkOrder: HS23010794

Method:SW6020A

ICSA	Date: 24-Jan-2023 14:30	Seq: 7085623	ICSA	Units: ug/L
Analyte	True	Found	%R	
Arsenic		0.275	0	
ICSAB	Date: 24-Jan-2023 14:32	Seq: 7085624	ICSAB	Units: ug/L
Analyte	True	Found	%R	
Arsenic	100	96.8	96.8	



Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Date Analyzed: 24-Jan-2023 14:55

Project: LHAAP-58

Date Extracted: 23-Jan-2023 13:00

WorkOrder: HS23010794

Units: ug/L

Matrix Spike: HS23010489-02MS

Analysis Method: SW6020A

Client Sample ID:

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD RPD Limit
Arsenic	0.6200	54.10	50.00	107	53.71	50.00	106	84-116	0.716 20



Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.

Date Analyzed: 24-Jan-2023 14:57

Project: LHAAP-58

Date Extracted: 23-Jan-2023 13:00

WorkOrder: HS23010794

Units: ug/L

Lab Sample ID: HS23010489-02PDS

Analysis Method: SW6020A

Client Sample ID:

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Arsenic	0.62	106	100	105	80-120



Form 7 - Laboratory Control Sample**Client:** Bhate Environmental Associates, Inc.

Date Analyzed: 24-Jan-2023 14:47

Project: LHAAP-58

Date Extracted: 23-Jan-2023 13:00

WorkOrder: HS23010794

Units: ug/L

Lab Sample ID: LCS-188726

Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Arsenic	50	49.72	99	84-116

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.

Date Analyzed: 24-Jan-2023 14:51

Project: LHAAP-58

Date Extracted: 23-Jan-2023 13:00

WorkOrder: HS23010794

Units: ug/L

Lab Sample ID: HS23010489-02SD

Analysis Method: SW6020A

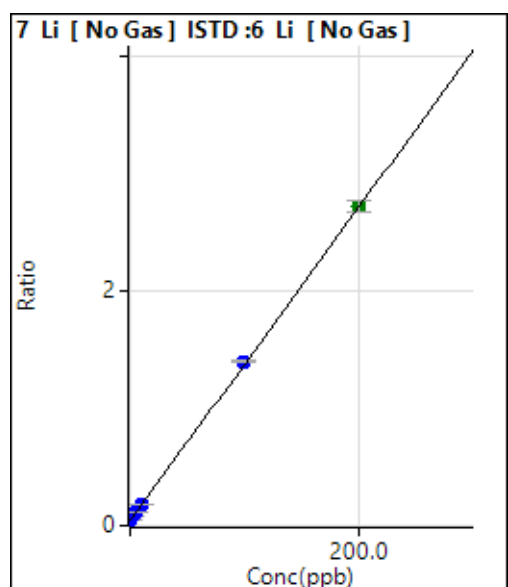
Client Sample ID:

Analyte	Sample Result	C	SD Result	C	RPD	Q
Arsenic	0.62	J	0	U	0	



Batch Folder: D:\Agilent\ICPMH\1\DATA\012423D.b\
Analysis File: 012423D.batch.bin
DA Date-Time: 01/24/2023 19:36:14
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	011CALB.d	CAL BLK	01/24/2023 14:06:19
2	012CALS.d	2/10/200	01/24/2023 14:08:13
3	013CALS.d	5/25/500	01/24/2023 14:10:07
4	014CALS.d	10/50/100	01/24/2023 14:12:01
5	015CALS.d	100/500/10K	01/24/2023 14:13:55
6	016CALS.d	200/1000/20K	01/24/2023 14:15:47



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	31104.43	0.0568	P	1.1	
2	☐	2.000	2.046	46344.58	0.0841	P	2.3	2.3
3	☐	5.000	4.830	66840.23	0.1213	P	1.2	-3.4
4	☐	10.000	9.774	102684.64	0.1874	P	0.2	-2.3
5	☐	100.000	100.745	752594.42	1.4028	P	0.8	0.7
6	☐	200.000	199.643	1449657.63	2.7241	A	3.9	-0.2

$$y = 0.0134 * x + 0.0568$$

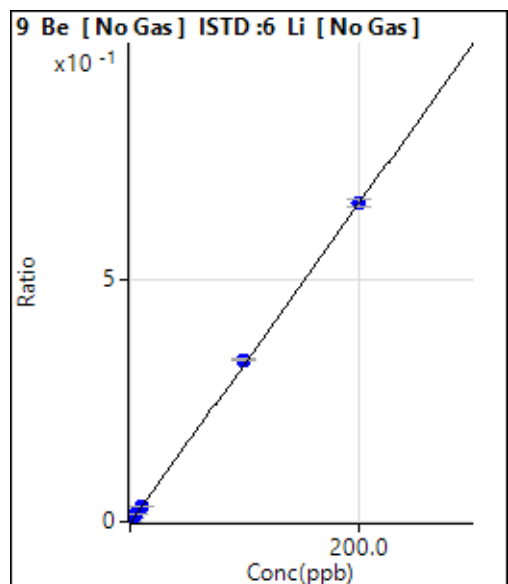
$$R = 1.0000$$

$$DL = 0.1385 \text{ ppb}$$

$$BEC = 4.251 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8.33	0.0000	P	68.9	
2	☐	2.000	1.954	3560.48	0.0065	P	6.5	-2.3
3	☐	5.000	4.860	8839.49	0.0160	P	2.0	-2.8
4	☐	10.000	9.950	17998.29	0.0328	P	0.7	-0.5
5	☐	100.000	100.994	178763.92	0.3332	P	1.2	1.0
6	☐	200.000	199.510	350337.32	0.6582	P	2.5	-0.2

$$y = 0.0033 * x + 1.5192E-005$$

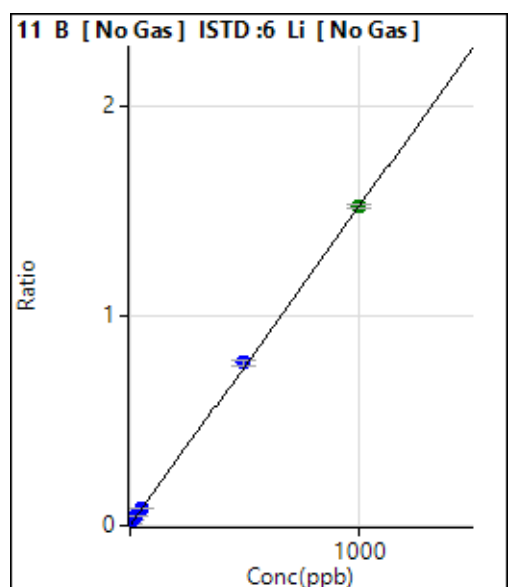
$$R = 1.0000$$

$$DL = 0.009516 \text{ ppb}$$

$$BEC = 0.004605 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5140.98	0.0094	P	4.8	
2	☐	10.000	9.693	13269.70	0.0241	P	5.0	-3.1
3	☐	25.000	23.848	25092.48	0.0456	P	1.4	-4.6
4	☐	50.000	49.028	45885.01	0.0837	P	2.6	-1.9
5	☐	500.000	505.613	416414.24	0.7761	P	3.0	1.1
6	☐	1000.000	997.274	810065.72	1.5217	A	0.7	-0.3

$$y = 0.0015 * x + 0.0094$$

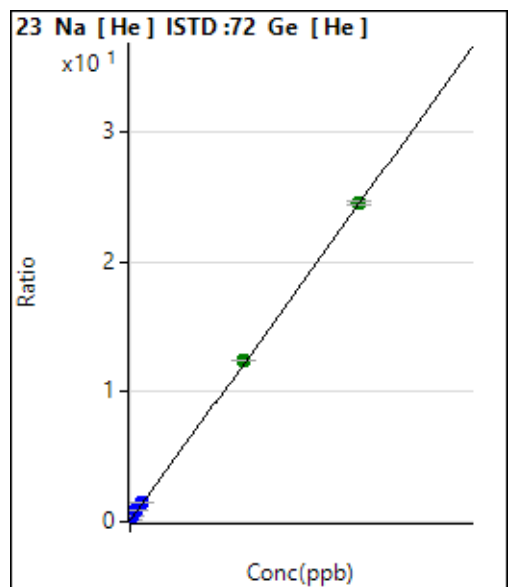
$$R = 1.0000$$

$$DL = 0.8907 \text{ ppb}$$

$$BEC = 6.191 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101027.18	0.2008	P	0.3	
2	☐	200.000	216.903	237864.85	0.4653	P	0.5	8.5
3	☐	500.000	520.274	423408.73	0.8352	P	0.4	4.1
4	☐	1000.000	1051.794	750565.64	1.4833	P	1.0	5.2
5	☐	10000.00	10020.17	6325838.45	12.4192	A	0.8	0.2
6	☐	20000.00	19986.64	12387284.4	24.5720	A	0.9	-0.1

$$y = 0.0012 * x + 0.2008$$

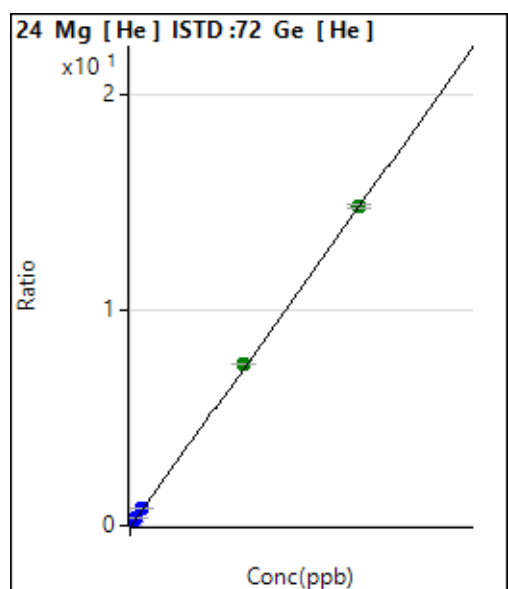
$$R = 1.0000$$

$$DL = 1.686 \text{ ppb}$$

$$BEC = 164.7 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0006	P	9.6	
2	☐	200.000	217.755	83023.37	0.1624	P	0.5	8.9
3	☐	500.000	511.849	193071.45	0.3808	P	0.5	2.4
4	☐	1000.000	1036.521	389928.35	0.7706	P	1.0	3.7
5	☐	10000.00	10080.56	3814350.88	7.4884	A	0.5	0.8
6	☐	20000.00	19957.41	7473373.84	14.8248	A	1.1	-0.2

$$y = 7.4279E-004 * x + 6.4920E-004$$

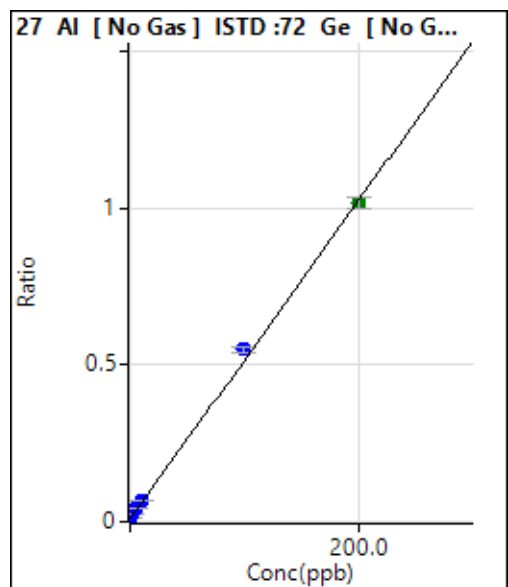
$$R = 1.0000$$

$$DL = 0.2529 \text{ ppb}$$

$$BEC = 0.874 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18893.14	0.0140	P	3.7	
2	☐	2.000	2.445	35726.35	0.0264	P	3.1	22.3
3	☐	5.000	5.257	54203.31	0.0407	P	2.5	5.1
4	☐	10.000	10.198	87270.42	0.0658	P	2.1	2.0
5	☐	100.000	105.292	725364.81	0.5483	P	2.6	5.3
6	☐	200.000	197.333	1334208.47	1.0154	A	3.5	-1.3

$$y = 0.0051 * x + 0.0140$$

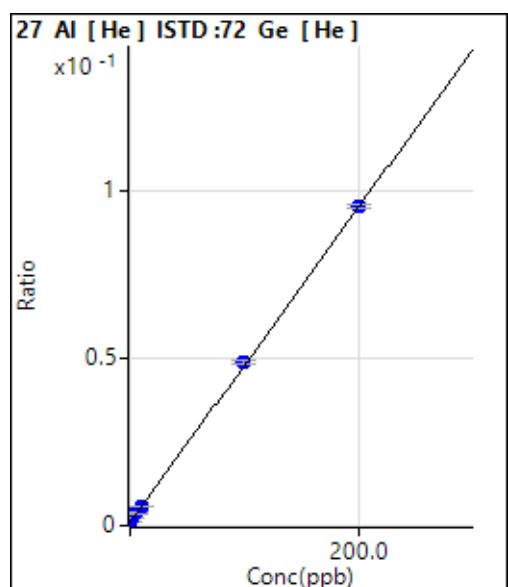
$$R = 0.9995$$

$$DL = 0.3059 \text{ ppb}$$

$$BEC = 2.764 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	696.69	0.0014	P	2.0	
2	☐	2.000	1.930	1173.40	0.0023	P	11.6	-3.5
3	☐	5.000	4.994	1896.83	0.0037	P	8.0	-0.1
4	☐	10.000	9.140	2883.68	0.0057	P	4.5	-8.6
5	☐	100.000	101.167	25026.04	0.0491	P	2.4	1.2
6	☐	200.000	199.460	48156.97	0.0955	P	0.9	-0.3

$$y = 4.7194\text{E-}004 * x + 0.0014$$

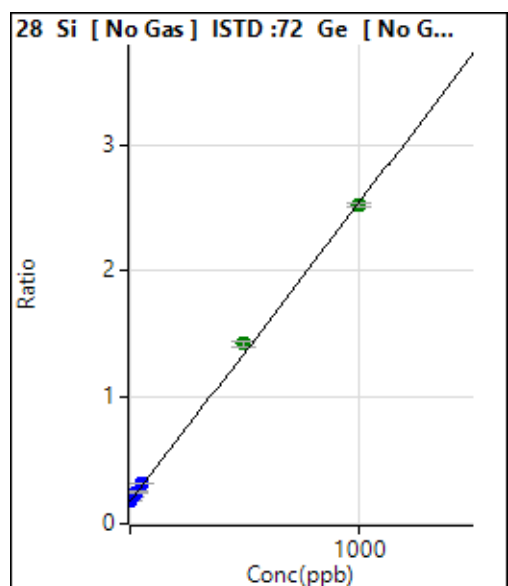
$$R = 1.0000$$

$$DL = 0.1775 \text{ ppb}$$

$$BEC = 2.934 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	252884.69	0.1877	P	0.7	
2	☐	10.000	10.993	288803.26	0.2136	P	1.9	9.9
3	☐	25.000	26.339	332818.71	0.2499	P	2.3	5.4
4	☐	50.000	53.313	416085.50	0.3136	P	1.2	6.6
5	☐	500.000	522.670	1881129.09	1.4221	A	2.8	4.5
6	☐	1000.000	988.456	3314842.55	2.5222	A	1.7	-1.2

$$y = 0.0024 * x + 0.1877$$

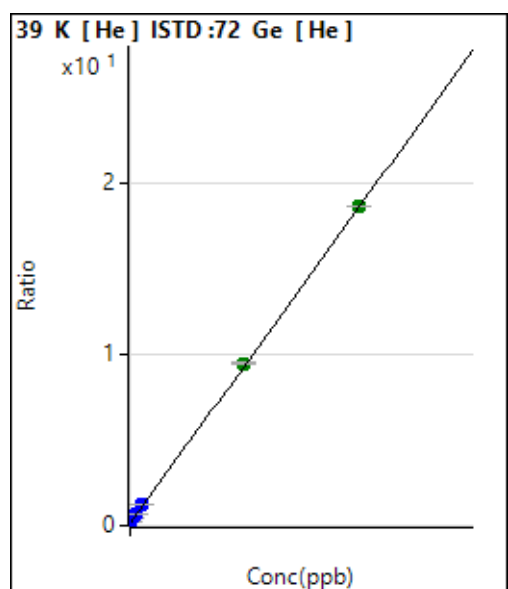
$$R = 0.9996$$

$$DL = 1.628 \text{ ppb}$$

$$BEC = 79.47 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113414.31	0.2254	P	2.1	
2	☐	200.000	212.846	215784.80	0.4221	P	0.9	6.4
3	☐	500.000	515.152	355581.01	0.7014	P	0.3	3.0
4	☐	1000.000	1047.945	604002.63	1.1937	P	0.8	4.8
5	☐	10000.00	10017.69	4829149.31	9.4810	A	1.2	0.2
6	☐	20000.00	19988.25	9423842.57	18.6930	A	0.5	-0.1

$$y = 9.2392\text{E-}004 * x + 0.2254$$

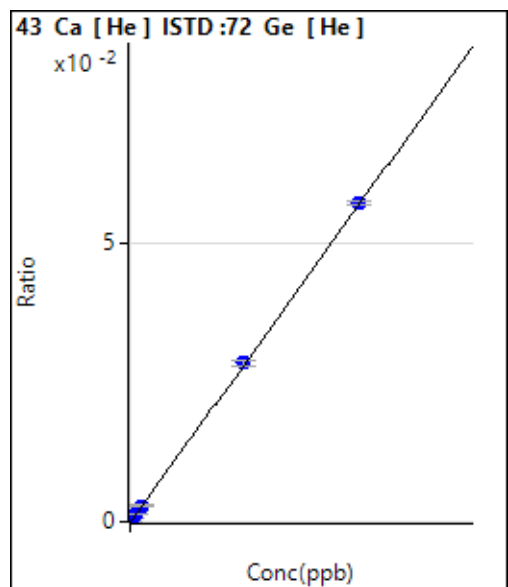
$$R = 1.0000$$

DL = 15.02 ppb

BEC = 244 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	64.7	
2	☐	200.000	172.748	316.68	0.0006	P	10.6	-13.6
3	☐	500.000	462.516	733.37	0.0014	P	9.8	-7.5
4	☐	1000.000	966.680	1460.11	0.0029	P	12.3	-3.3
5	☐	10000.00	9945.147	14514.66	0.0285	P	3.1	-0.5
6	☐	20000.00	20030.30	28873.84	0.0573	P	1.1	0.2

$$y = 2.8531\text{E-}006 * x + 1.2633\text{E-}004$$

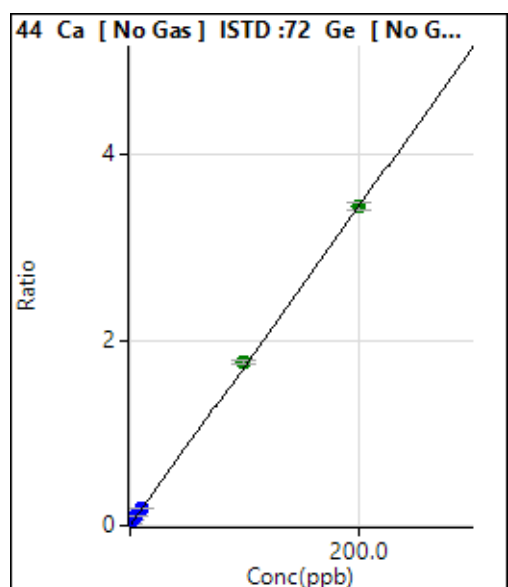
$$R = 1.0000$$

DL = 86 ppb

BEC = 44.28 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26672.93	0.0198	P	2.1	
2	☐	2.000	2.114	75875.20	0.0561	P	1.4	5.7
3	☐	5.000	5.017	141208.95	0.1060	P	2.4	0.3
4	☐	10.000	10.158	257908.17	0.1944	P	1.2	1.6
5	☐	100.000	101.605	2336336.16	1.7661	A	2.3	1.6
6	☐	200.000	199.188	4525142.74	3.4433	A	2.2	-0.4

$$y = 0.0172 * x + 0.0198$$

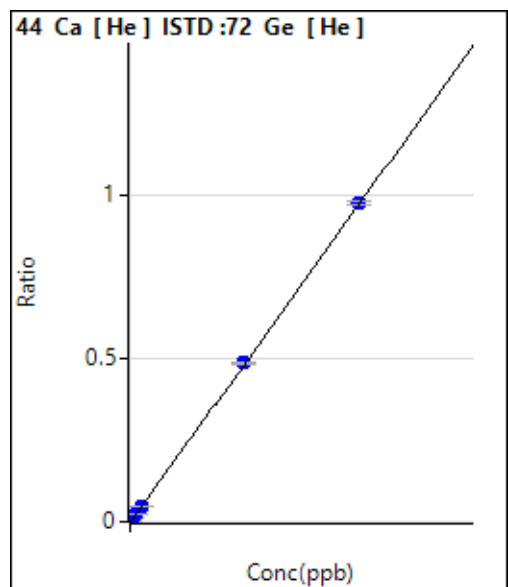
$$R = 1.0000$$

$$DL = 0.07133 \text{ ppb}$$

$$BEC = 1.152 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010.06	0.0020	P	7.7	
2	☐	200.000	209.584	6251.54	0.0122	P	4.7	4.8
3	☐	500.000	482.069	12936.31	0.0255	P	3.5	-3.6
4	☐	1000.000	978.472	25166.59	0.0497	P	0.6	-2.2
5	☐	10000.00	9979.116	248931.21	0.4887	P	1.2	-0.2
6	☐	20000.00	20011.87	493067.73	0.9781	P	1.2	0.1

$$y = 4.8775E-005 * x + 0.0020$$

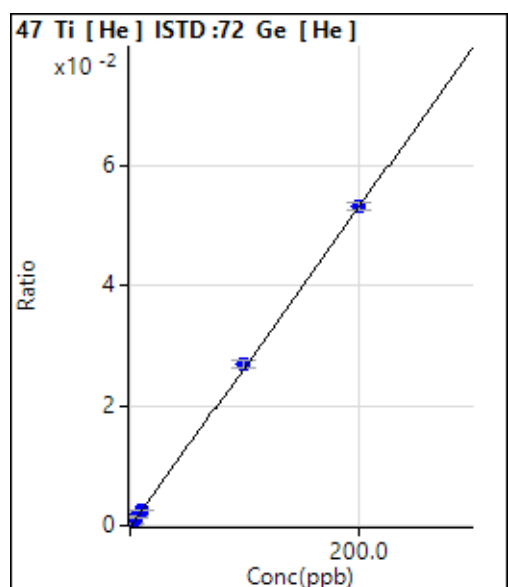
$$R = 1.0000$$

$$DL = 9.455 \text{ ppb}$$

$$BEC = 41.16 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	99.6	
2	☐	2.000	1.661	236.68	0.0005	P	6.0	-17.0
3	☐	5.000	5.325	730.04	0.0014	P	9.4	6.5
4	☐	10.000	9.409	1280.09	0.0025	P	9.6	-5.9
5	☐	100.000	100.767	13700.39	0.0269	P	4.9	0.8
6	☐	200.000	199.642	26863.42	0.0533	P	2.8	-0.2

$$y = 2.6678\text{E-}004 * x + 1.9740\text{E-}005$$

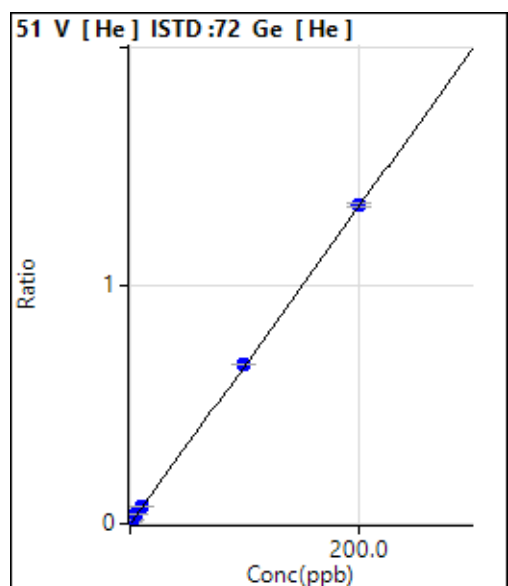
$$R = 1.0000$$

$$DL = 0.2211 \text{ ppb}$$

$$BEC = 0.07399 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2430.23	0.0048	P	3.5	
2	☐	2.000	2.031	9391.03	0.0184	P	2.1	1.6
3	☐	5.000	4.885	18957.62	0.0374	P	2.5	-2.3
4	☐	10.000	9.933	35949.27	0.0710	P	0.6	-0.7
5	☐	100.000	99.588	340589.51	0.6687	P	0.9	-0.4
6	☐	200.000	200.212	675227.80	1.3394	P	1.0	0.1

$$y = 0.0067 * x + 0.0048$$

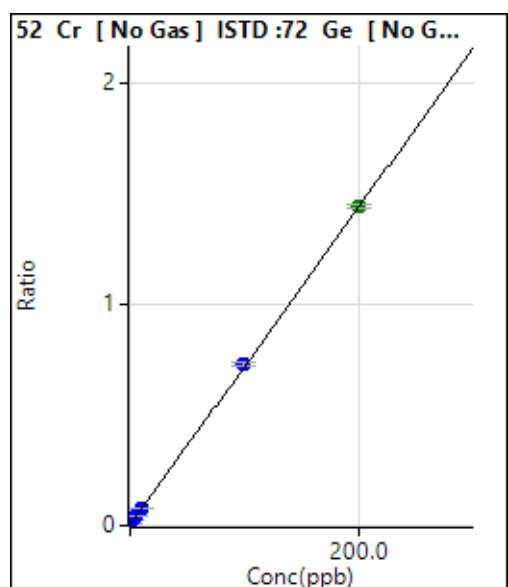
$$R = 1.0000$$

$$DL = 0.07567 \text{ ppb}$$

$$BEC = 0.7246 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12552.63	0.0093	P	2.0	
2	☐	2.000	2.062	32579.22	0.0241	P	3.5	3.1
3	☐	5.000	4.811	58374.54	0.0438	P	0.9	-3.8
4	☐	10.000	10.115	108619.23	0.0819	P	1.1	1.2
5	☐	100.000	100.872	969396.60	0.7328	P	2.4	0.9
6	☐	200.000	199.562	1893367.73	1.4407	A	1.4	-0.2

$$y = 0.0072 * x + 0.0093$$

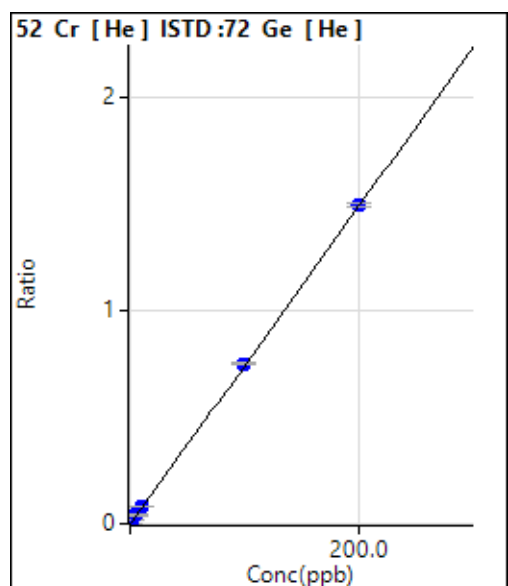
$$R = 1.0000$$

$$DL = 0.07667 \text{ ppb}$$

$$BEC = 1.299 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0041	P	7.3	
2	☐	2.000	1.982	9650.25	0.0189	P	1.6	-0.9
3	☐	5.000	4.932	20742.71	0.0409	P	1.7	-1.4
4	☐	10.000	10.111	40286.17	0.0796	P	1.1	1.1
5	☐	100.000	100.072	382903.76	0.7518	P	0.9	0.1
6	☐	200.000	199.960	755225.48	1.4981	P	0.6	0.0

$$y = 0.0075 * x + 0.0041$$

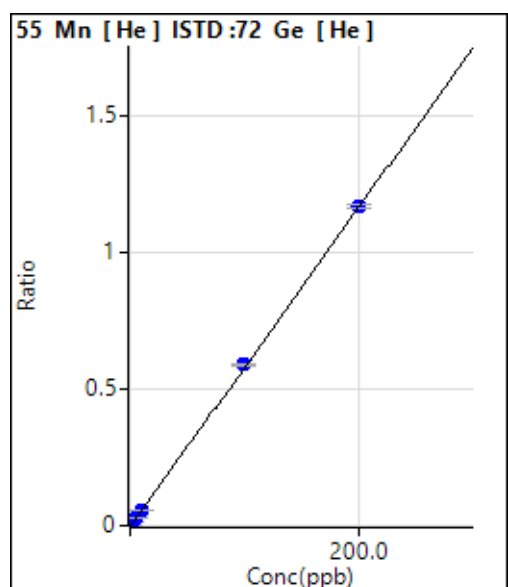
$$R = 1.0000$$

$$DL = 0.1197 \text{ ppb}$$

$$BEC = 0.5446 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	386.68	0.0008	P	20.8	
2	☐	2.000	2.146	6805.16	0.0133	P	6.1	7.3
3	☐	5.000	5.081	15442.34	0.0305	P	5.1	1.6
4	☐	10.000	9.973	29886.40	0.0591	P	2.3	-0.3
5	☐	100.000	100.561	299792.83	0.5886	P	0.8	0.6
6	☐	200.000	199.717	588910.94	1.1682	P	0.7	-0.1

$$y = 0.0058 * x + 7.6957E-004$$

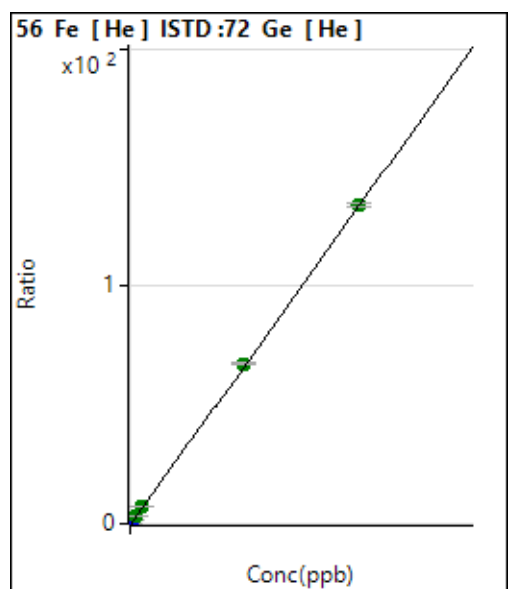
$$R = 1.0000$$

$$DL = 0.08196 \text{ ppb}$$

$$BEC = 0.1317 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23173.30	0.0461	P	0.6	
2	☐	200.000	221.121	783381.50	1.5323	P	0.5	10.6
3	☐	500.000	527.093	1819521.95	3.5889	A	1.0	5.4
4	☐	1000.000	1029.517	3524658.70	6.9660	A	1.9	3.0
5	☐	10000.00	10017.98	34321280.3	67.3824	A	0.8	0.2
6	☐	20000.00	19988.64	67754672.3	134.400	A	1.1	-0.1

$$y = 0.0067 * x + 0.0461$$

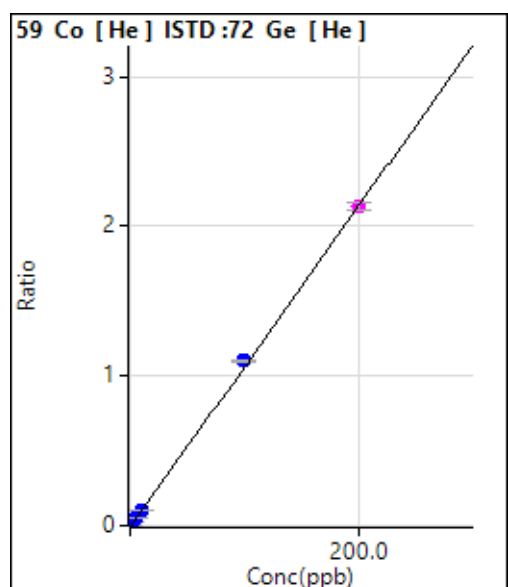
$$R = 1.0000$$

$$DL = 0.1135 \text{ ppb}$$

$$BEC = 6.852 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	32.4	
2	☐	2.000	2.115	11678.55	0.0228	P	3.6	5.7
3	☐	5.000	5.108	27878.83	0.0550	P	1.4	2.2
4	☐	10.000	10.104	54978.02	0.1086	P	0.1	1.0
5	☐	100.000	102.595	561311.49	1.1021	P	1.4	2.6
6	☐	200.000	198.694	1076189.38	2.1342	M	2.7	-0.7

$$y = 0.0107 * x + 1.2569E-004$$

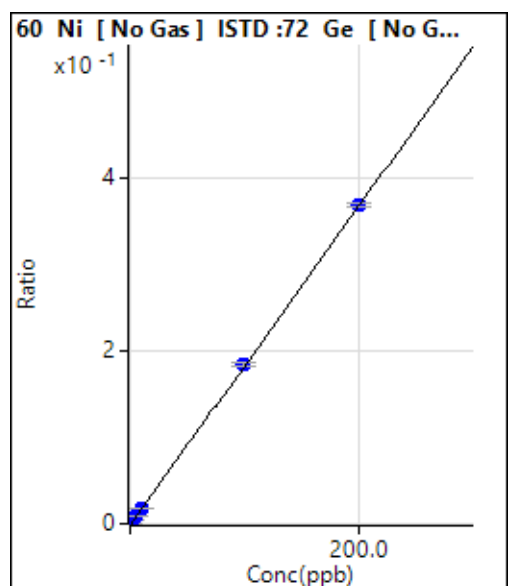
$$R = 0.9999$$

$$DL = 0.01139 \text{ ppb}$$

$$BEC = 0.0117 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	6.1	
2	☐	2.000	2.031	5317.79	0.0039	P	3.5	1.5
3	☐	5.000	4.818	12105.57	0.0091	P	6.0	-3.6
4	☐	10.000	9.871	24465.64	0.0184	P	1.0	-1.3
5	☐	100.000	100.347	245792.80	0.1858	P	2.5	0.3
6	☐	200.000	199.837	486049.50	0.3698	P	1.3	-0.1

$$y = 0.0018 * x + 1.7804E-004$$

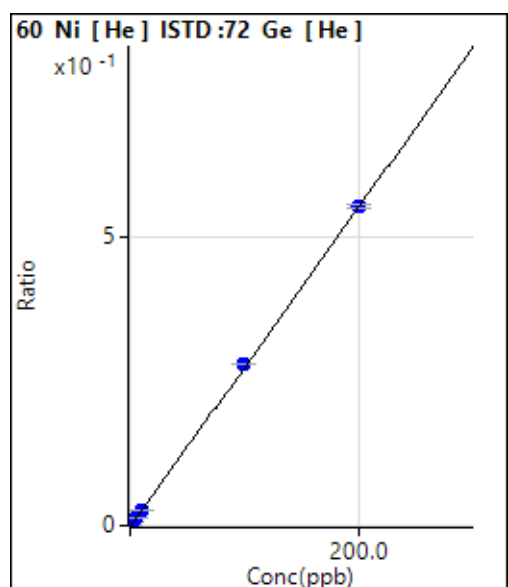
$$R = 1.0000$$

$$DL = 0.01762 \text{ ppb}$$

$$BEC = 0.09625 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0002	P	16.8	
2	☐	2.000	2.155	3143.75	0.0062	P	7.1	7.8
3	☐	5.000	5.166	7338.77	0.0145	P	4.5	3.3
4	☐	10.000	9.902	13950.71	0.0276	P	0.7	-1.0
5	☐	100.000	100.886	142177.87	0.2791	P	0.6	0.9
6	☐	200.000	199.556	278239.97	0.5519	P	1.1	-0.2

$$y = 0.0028 * x + 1.9234E-004$$

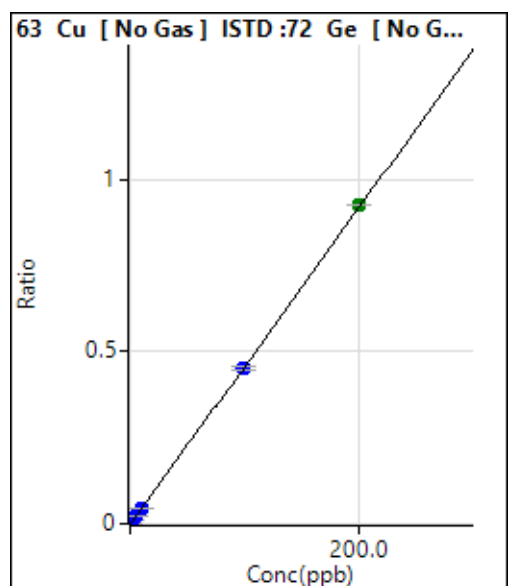
$$R = 1.0000$$

$$DL = 0.03499 \text{ ppb}$$

$$BEC = 0.06957 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2620.30	0.0019	P	5.4	
2	☐	2.000	2.151	16006.39	0.0118	P	0.9	7.6
3	☐	5.000	4.837	32211.84	0.0242	P	2.8	-3.3
4	☐	10.000	9.683	61660.37	0.0465	P	1.8	-3.2
5	☐	100.000	98.164	599755.42	0.4534	P	2.5	-1.8
6	☐	200.000	200.937	1217164.67	0.9260	A	0.6	0.5

$$y = 0.0046 * x + 0.0019$$

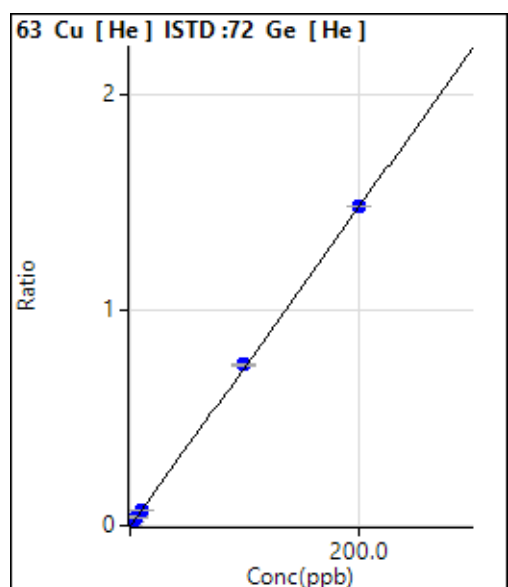
$$R = 0.9999$$

$$DL = 0.06842 \text{ ppb}$$

$$BEC = 0.4231 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1530.11	0.0030	P	15.1	
2	☐	2.000	2.218	9943.81	0.0194	P	1.3	10.9
3	☐	5.000	4.879	19841.47	0.0391	P	5.2	-2.4
4	☐	10.000	9.755	38053.67	0.0752	P	1.2	-2.4
5	☐	100.000	100.621	380628.81	0.7473	P	1.3	0.6
6	☐	200.000	199.702	746230.43	1.4802	P	0.2	-0.1

$$y = 0.0074 * x + 0.0030$$

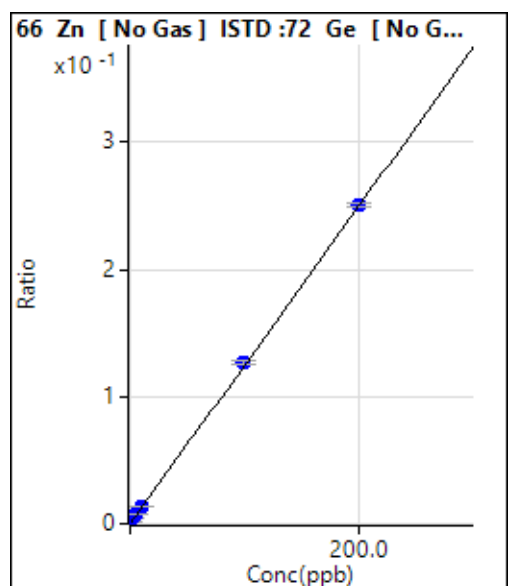
$$R = 1.0000$$

$$DL = 0.1864 \text{ ppb}$$

$$BEC = 0.4116 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1673.47	0.0012	P	4.0	
2	☐	2.000	2.635	6124.87	0.0045	P	2.5	31.7
3	☐	5.000	5.358	10560.95	0.0079	P	2.9	7.2
4	☐	10.000	9.728	17758.56	0.0134	P	4.0	-2.7
5	☐	100.000	100.357	167340.06	0.1265	P	3.0	0.4
6	☐	200.000	199.820	329448.44	0.2507	P	0.8	-0.1

$$y = 0.0012 * x + 0.0012$$

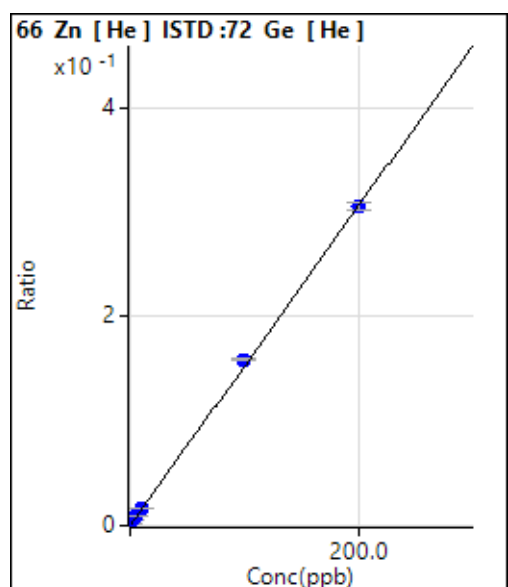
$$R = 1.0000$$

$$DL = 0.1196 \text{ ppb}$$

$$BEC = 0.9948 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	753.36	0.0015	P	20.6	
2	☐	2.000	2.907	3040.39	0.0059	P	4.9	45.3
3	☐	5.000	5.431	4974.33	0.0098	P	5.1	8.6
4	☐	10.000	10.196	8659.58	0.0171	P	4.0	2.0
5	☐	100.000	102.786	80934.13	0.1589	P	1.6	2.8
6	☐	200.000	198.577	154047.58	0.3056	P	2.0	-0.7

$$y = 0.0015 * x + 0.0015$$

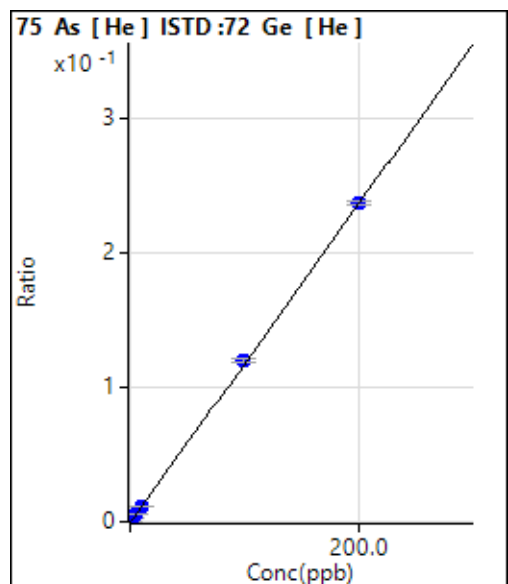
$$R = 0.9999$$

$$DL = 0.603 \text{ ppb}$$

$$BEC = 0.9769 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	135.56	0.0003	P	14.6	
2	☐	2.000	2.168	1454.53	0.0028	P	0.3	8.4
3	☐	5.000	4.915	3097.04	0.0061	P	5.4	-1.7
4	☐	10.000	9.854	6060.27	0.0120	P	1.6	-1.5
5	☐	100.000	100.875	61180.07	0.1201	P	2.0	0.9
6	☐	200.000	199.570	119665.51	0.2374	P	1.3	-0.2

$$y = 0.0012 * x + 2.6946E-004$$

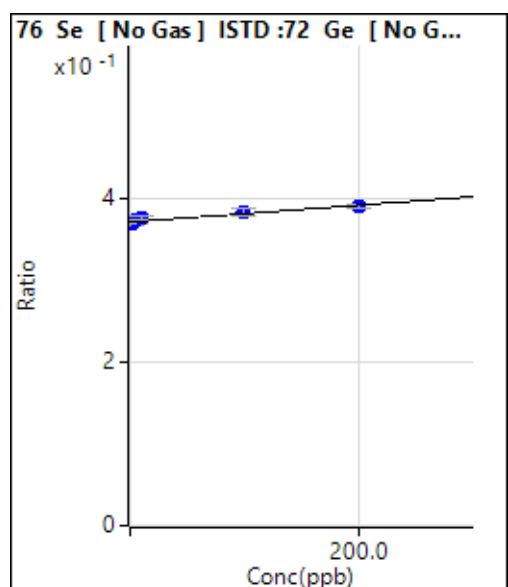
$$R = 1.0000$$

$$DL = 0.09919 \text{ ppb}$$

$$BEC = 0.2268 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	498864.16	0.3703	P	1.3	
2	☐	2.000	-9.219	499244.45	0.3693	P	1.6	-561.0
3	☐	5.000	31.939	497523.63	0.3736	P	2.4	538.8
4	☐	10.000	56.911	499087.15	0.3762	P	1.4	469.1
5	☐	100.000	122.857	506626.49	0.3830	P	2.4	22.9
6	☐	200.000	185.665	511875.65	0.3895	P	0.7	-7.2

$$y = 1.0343E-004 * x + 0.3703$$

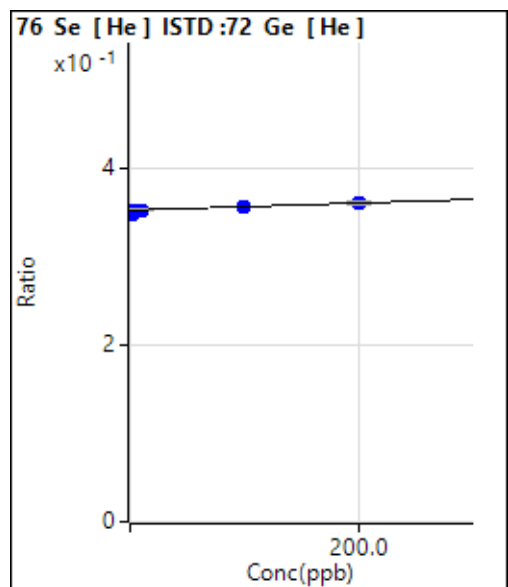
$$R = 0.9554$$

DL = 140.6 ppb

BEC = 3580 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176999.69	0.3518	P	0.9	
2	☐	2.000	-91.861	177905.39	0.3480	P	0.4	-4693.0
3	☐	5.000	11.284	178584.32	0.3523	P	0.8	125.7
4	☐	10.000	0.566	178033.06	0.3518	P	0.6	-94.3
5	☐	100.000	102.971	181368.92	0.3561	P	0.4	3.0
6	☐	200.000	199.768	181524.07	0.3601	P	1.6	-0.1

$$y = 4.1506E-005 * x + 0.3518$$

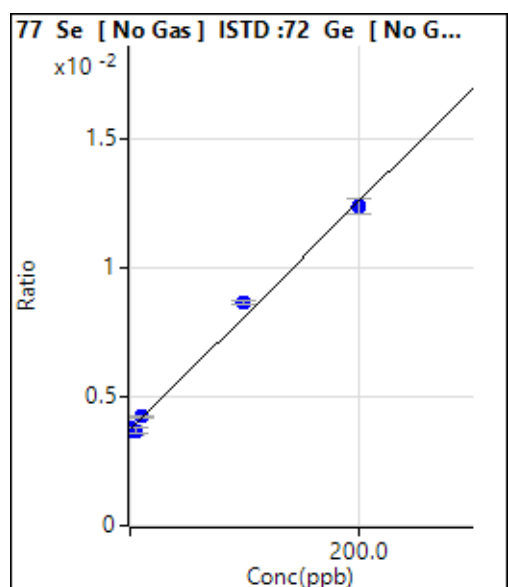
$$R = 0.9315$$

DL = 217.1 ppb

BEC = 8476 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5147.74	0.0038	P	1.6	
2	☐	2.000	-3.573	4951.00	0.0037	P	7.2	-278.6
3	☐	5.000	-2.784	4927.64	0.0037	P	5.5	-155.7
4	☐	10.000	9.381	5617.94	0.0042	P	2.2	-6.2
5	☐	100.000	110.616	11505.10	0.0087	P	1.6	10.6
6	☐	200.000	194.973	16310.12	0.0124	P	4.3	-2.5

$$y = 4.4070\text{E-}005 * x + 0.0038$$

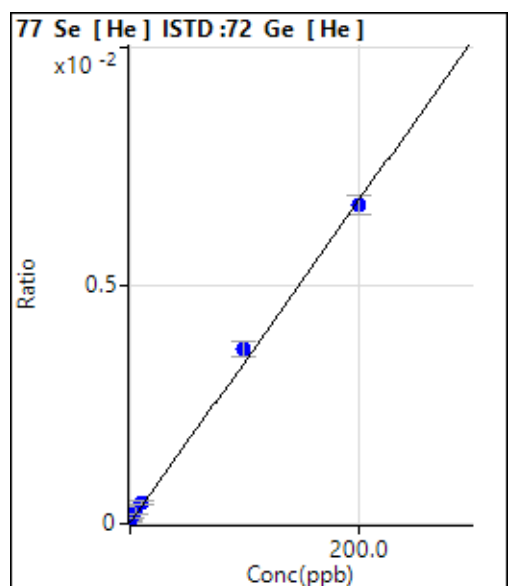
$$R = 0.9969$$

$$DL = 4.252 \text{ ppb}$$

$$BEC = 86.7 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0001	P	43.4	
2	☐	2.000	3.057	80.00	0.0002	P	32.9	52.8
3	☐	5.000	6.974	146.67	0.0003	P	51.1	39.5
4	☐	10.000	11.274	220.01	0.0004	P	15.9	12.7
5	☐	100.000	107.186	1873.50	0.0037	P	8.9	7.2
6	☐	200.000	196.284	3373.82	0.0067	P	6.2	-1.9

$$y = 3.3839\text{E-}005 * x + 5.3015\text{E-}005$$

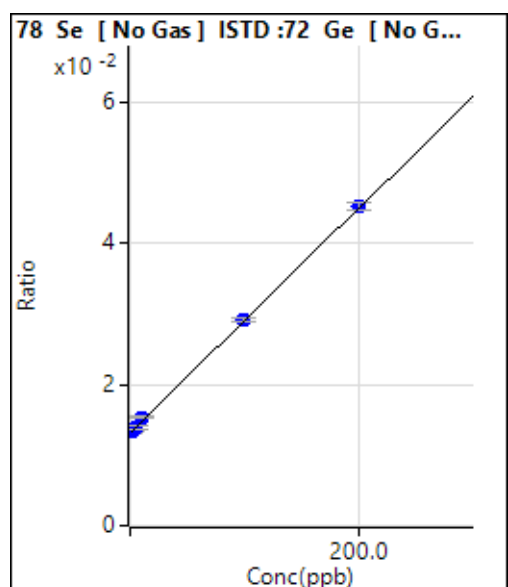
$$R = 0.9991$$

$$DL = 2.04 \text{ ppb}$$

$$BEC = 1.567 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18172.48	0.0135	P	4.2	
2	☐	2.000	-0.165	18202.56	0.0135	P	2.3	-108.3
3	☐	5.000	3.068	18613.17	0.0140	P	3.9	-38.6
4	☐	10.000	11.468	20315.63	0.0153	P	1.6	14.7
5	☐	100.000	99.087	38635.60	0.0292	P	2.2	-0.9
6	☐	200.000	200.453	59504.80	0.0453	P	1.9	0.2

$$y = 1.5857E-004 * x + 0.0135$$

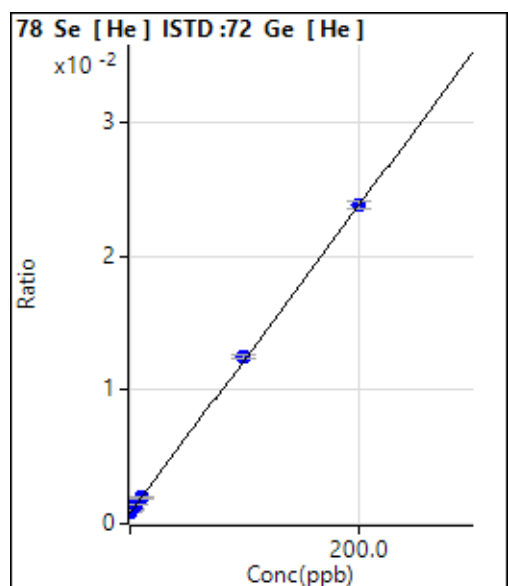
$$R = 0.9999$$

DL = 10.81 ppb

BEC = 85.09 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	463.34	0.0009	P	5.5	
2	☐	2.000	1.514	560.01	0.0011	P	4.1	-24.3
3	☐	5.000	4.677	740.02	0.0015	P	4.8	-6.5
4	☐	10.000	8.950	987.37	0.0020	P	2.7	-10.5
5	☐	100.000	101.199	6403.54	0.0126	P	2.2	1.2
6	☐	200.000	199.466	12038.06	0.0239	P	1.9	-0.3

$$y = 1.1511E-004 * x + 9.2116E-004$$

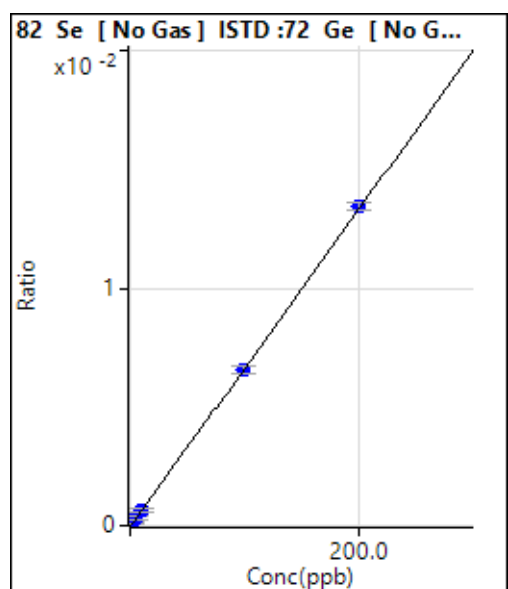
$$R = 1.0000$$

DL = 1.316 ppb

BEC = 8.003 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22.37	0.0000	P	654.	
2	☐	2.000	1.228	132.63	0.0001	P	73.7	-38.6
3	☐	5.000	4.840	449.38	0.0003	P	35.3	-3.2
4	☐	10.000	9.419	856.15	0.0006	P	21.1	-5.8
5	☐	100.000	98.007	8682.83	0.0066	P	3.9	-2.0
6	☐	200.000	201.037	17671.97	0.0134	P	2.5	0.5

$$y = 6.6815E-005 * x + 1.5742E-005$$

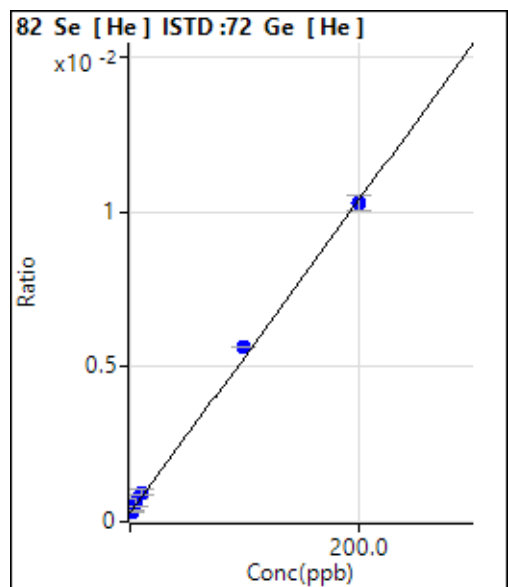
$$R = 0.9999$$

$$DL = 4.623 \text{ ppb}$$

$$BEC = 0.2356 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	21.6	
2	☐	2.000	0.155	173.33	0.0003	P	19.1	-92.3
3	☐	5.000	5.409	306.68	0.0006	P	37.8	8.2
4	☐	10.000	12.202	480.02	0.0009	P	16.5	22.0
5	☐	100.000	105.272	2880.36	0.0057	P	0.6	5.3
6	☐	200.000	197.262	5194.42	0.0103	P	4.4	-1.4

$$y = 5.0568E-005 * x + 3.3144E-004$$

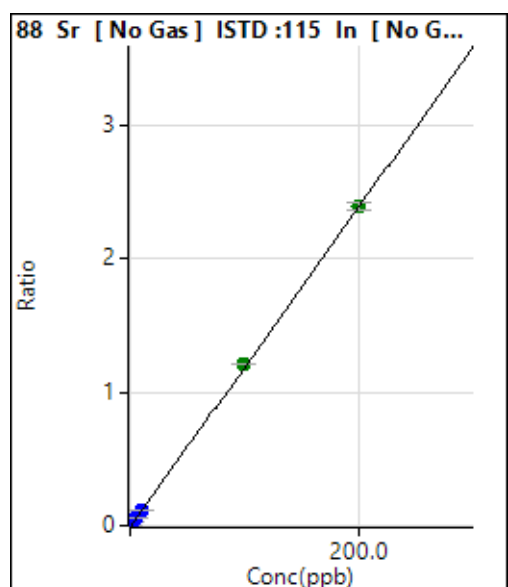
$$R = 0.9994$$

$$DL = 4.238 \text{ ppb}$$

$$BEC = 6.554 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0003	P	10.3	
2	☐	2.000	2.036	28287.01	0.0247	P	1.1	1.8
3	☐	5.000	4.799	66344.93	0.0579	P	1.1	-4.0
4	☐	10.000	9.708	132876.70	0.1168	P	0.6	-2.9
5	☐	100.000	100.958	1372928.36	1.2114	A	1.1	1.0
6	☐	200.000	199.540	2708755.17	2.3939	A	2.5	-0.2

$$y = 0.0120 * x + 3.2664E-004$$

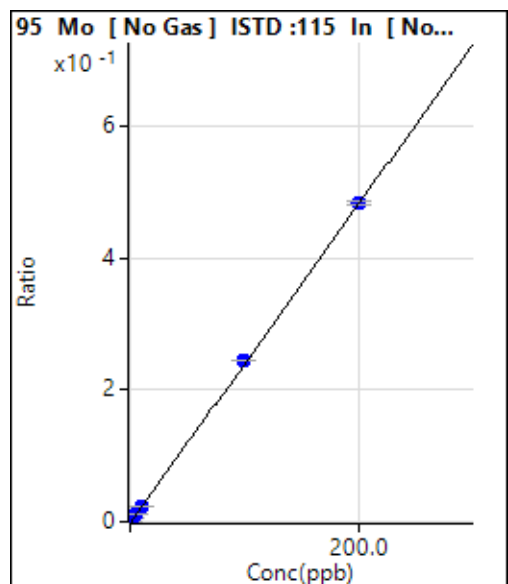
$$R = 1.0000$$

$$DL = 0.008434 \text{ ppb}$$

$$BEC = 0.02723 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0000	P	69.1	
2	☐	2.000	2.044	5697.99	0.0050	P	4.5	2.2
3	☐	5.000	4.763	13270.14	0.0116	P	3.0	-4.7
4	☐	10.000	9.852	27208.18	0.0239	P	1.3	-1.5
5	☐	100.000	100.585	276340.74	0.2438	P	0.1	0.6
6	☐	200.000	199.720	547849.20	0.4841	P	1.3	-0.1

$$y = 0.0024 * x + 3.2451E-005$$

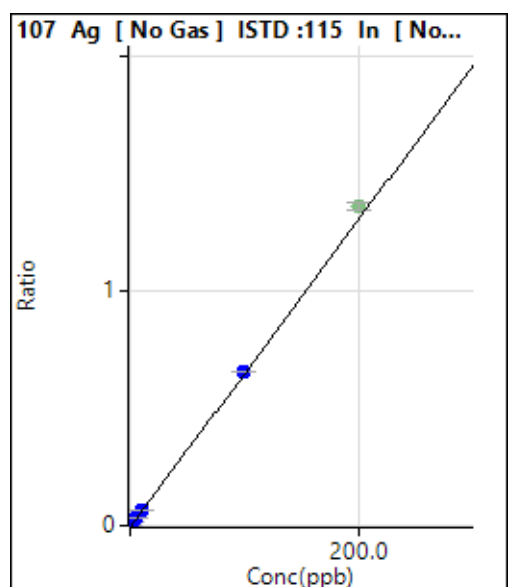
$$R = 1.0000$$

$$DL = 0.02775 \text{ ppb}$$

$$BEC = 0.01339 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	26.4	
2	☐	2.000	2.005	15235.74	0.0133	P	2.6	0.3
3	☐	5.000	4.899	36968.82	0.0323	P	2.3	-2.0
4	☐	10.000	9.775	73001.98	0.0642	P	1.0	-2.3
5	☐	100.000	100.027	741818.82	0.6546	P	0.4	0.0
6	☒	200.000		1537311.64	1.3584	A	2.3	

$$y = 0.0065 * x + 2.1210E-004$$

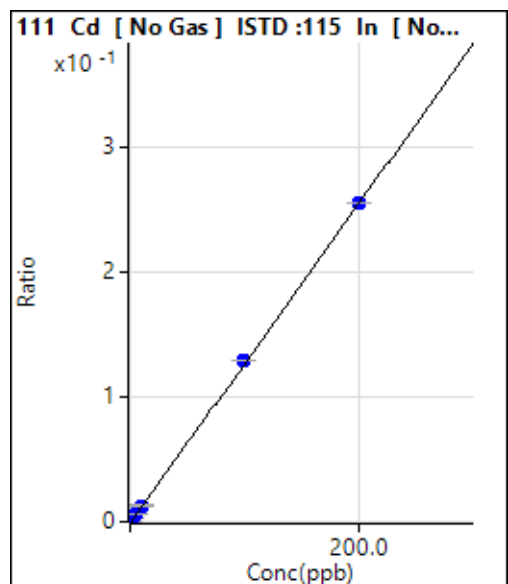
$$R = 1.0000$$

$$DL = 0.02569 \text{ ppb}$$

$$BEC = 0.03242 \text{ ppb}$$

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	☐	2.000	2.041	2993.73	0.0026	P	4.3	2.1
3	☐	5.000	4.872	7158.75	0.0062	P	1.9	-2.6
4	☐	10.000	10.088	14715.10	0.0129	P	3.6	0.9
5	☐	100.000	100.972	146656.78	0.1294	P	0.4	1.0
6	☐	200.000	199.513	289375.89	0.2557	P	0.6	-0.2

$$y = 0.0013 * x + 2.9290E-006$$

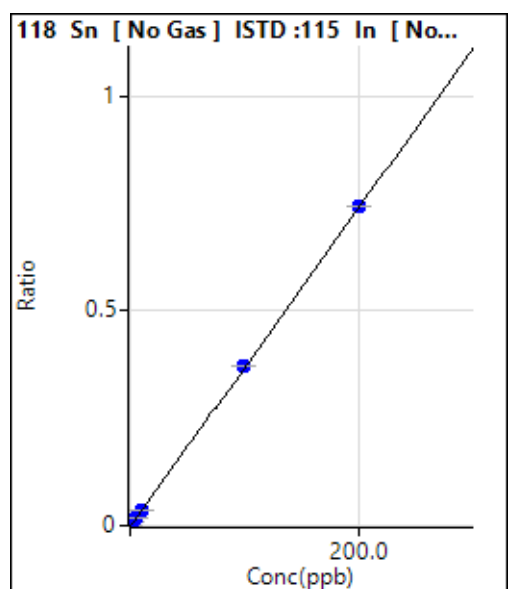
$$R = 1.0000$$

$$DL = 0.01188 \text{ ppb}$$

$$BEC = 0.002285 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.04	0.0007	P	8.2	
2	☐	2.000	1.978	9206.72	0.0081	P	5.0	-1.1
3	☐	5.000	4.823	21341.00	0.0186	P	1.7	-3.5
4	☐	10.000	9.829	42348.82	0.0372	P	2.6	-1.7
5	☐	100.000	99.911	421376.02	0.3718	P	0.7	-0.1
6	☐	200.000	200.058	841801.94	0.7438	P	0.5	0.0

$$y = 0.0037 * x + 7.0632E-004$$

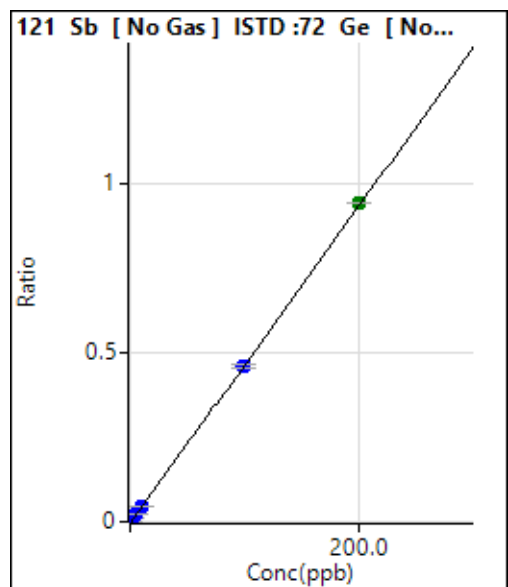
$$R = 1.0000$$

$$DL = 0.04704 \text{ ppb}$$

$$BEC = 0.1902 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0003	P	34.2	
2	☐	2.000	2.016	13116.82	0.0097	P	2.8	0.8
3	☐	5.000	4.779	30158.48	0.0226	P	2.4	-4.4
4	☐	10.000	9.573	59803.39	0.0451	P	4.0	-4.3
5	☐	100.000	97.737	605591.85	0.4578	P	2.5	-2.3
6	☐	200.000	201.158	1237981.78	0.9419	A	0.5	0.6

$$y = 0.0047 * x + 2.6754E-004$$

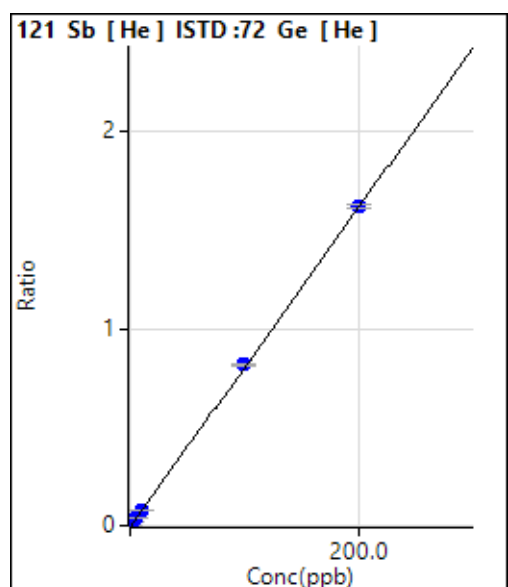
$$R = 0.9999$$

$$DL = 0.05863 \text{ ppb}$$

$$BEC = 0.05715 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.67	0.0004	P	13.1	
2	☐	2.000	1.988	8472.89	0.0166	P	3.1	-0.6
3	☐	5.000	4.958	20626.56	0.0407	P	3.0	-0.8
4	☐	10.000	10.051	41516.17	0.0821	P	2.2	0.5
5	☐	100.000	100.553	416132.53	0.8170	P	1.1	0.6
6	☐	200.000	199.722	817838.92	1.6223	P	1.1	-0.1

$$y = 0.0081 * x + 4.3025E-004$$

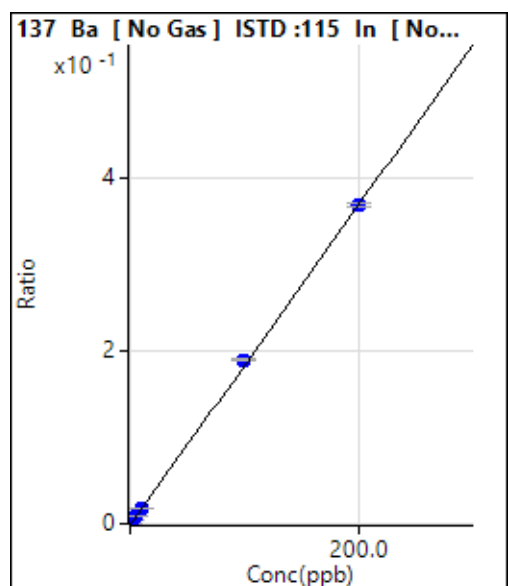
$$R = 1.0000$$

$$DL = 0.02075 \text{ ppb}$$

$$BEC = 0.05298 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.68	0.0002	P	17.4	
2	☐	2.000	2.073	4620.91	0.0040	P	1.8	3.7
3	☐	5.000	4.907	10654.58	0.0093	P	2.0	-1.9
4	☐	10.000	9.660	20603.38	0.0181	P	2.1	-3.4
5	☐	100.000	102.225	214940.52	0.1897	P	1.2	2.2
6	☐	200.000	198.906	417401.04	0.3689	P	1.5	-0.5

$$y = 0.0019 * x + 2.0033E-004$$

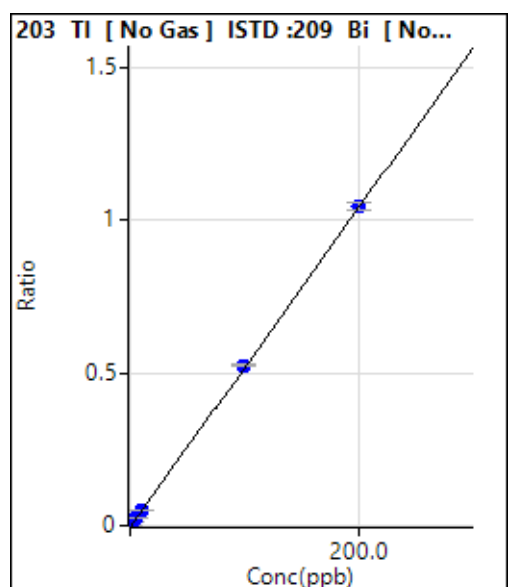
$$R = 0.9999$$

$$DL = 0.05652 \text{ ppb}$$

$$BEC = 0.1081 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	22.0	
2	☐	2.000	1.939	9430.41	0.0102	P	1.2	-3.1
3	☐	5.000	4.656	22694.36	0.0243	P	3.1	-6.9
4	☐	10.000	9.564	46413.41	0.0500	P	0.6	-4.4
5	☐	100.000	100.314	483680.19	0.5240	P	1.4	0.3
6	☐	200.000	199.874	954064.60	1.0440	P	2.7	-0.1

$$y = 0.0052 * x + 2.8904E-005$$

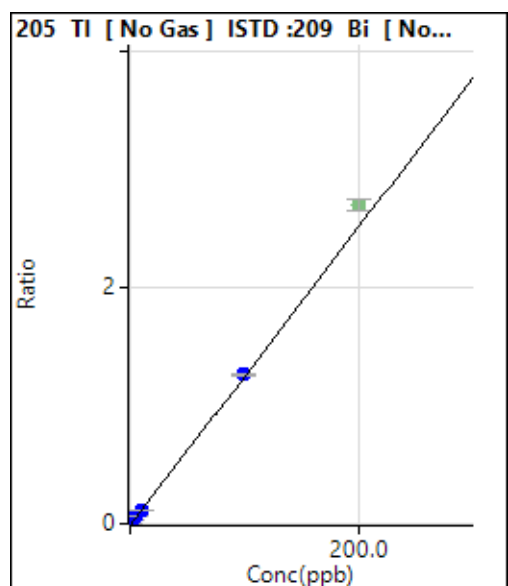
$$R = 1.0000$$

$$DL = 0.003649 \text{ ppb}$$

$$BEC = 0.005534 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	65.7	
2	☐	2.000	1.984	23285.39	0.0251	P	0.8	-0.8
3	☐	5.000	4.621	54385.89	0.0583	P	1.1	-7.6
4	☐	10.000	9.516	111524.03	0.1201	P	0.3	-4.8
5	☐	100.000	100.068	1165429.62	1.2626	P	0.9	0.1
6	☒	200.000		2464196.48	2.6967	A	3.2	

$$y = 0.0126 * x + 4.3260E-005$$

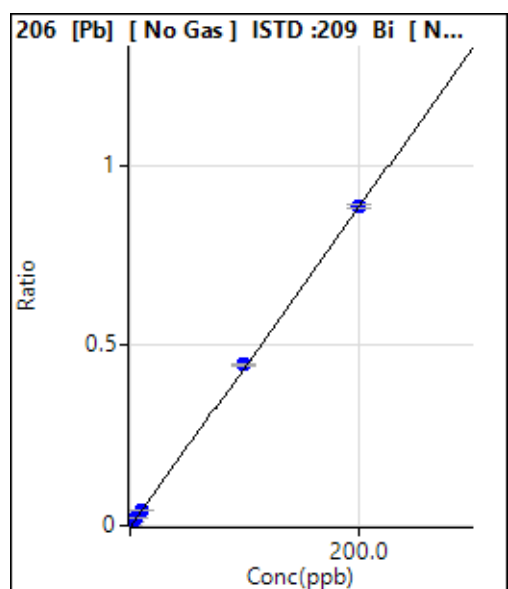
$$R = 1.0000$$

$$DL = 0.006762 \text{ ppb}$$

$$BEC = 0.003429 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	120.00	0.0001	P	25.1	
2	☐	2.000	2.053	8576.47	0.0092	P	3.1	2.6
3	☐	5.000	4.956	20617.43	0.0221	P	2.3	-0.9
4	☐	10.000	9.857	40723.72	0.0439	P	0.6	-1.4
5	☐	100.000	100.501	411637.27	0.4460	P	1.2	0.5
6	☐	200.000	199.757	809994.21	0.8863	P	1.5	-0.1

$$y = 0.0044 * x + 1.3000E-004$$

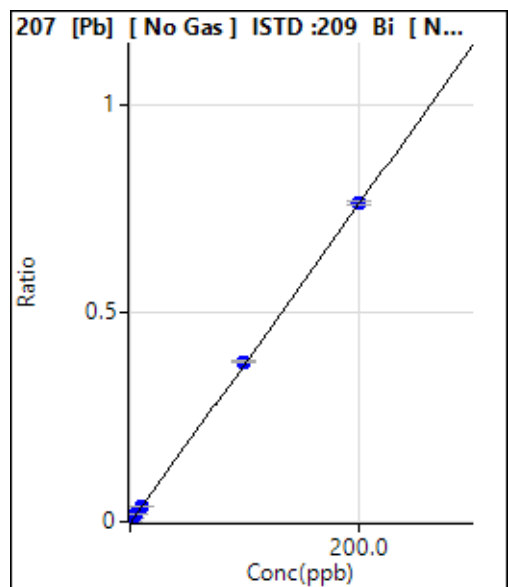
$$R = 1.0000$$

DL = 0.02203 ppb

BEC = 0.0293 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	9.7	
2	☐	2.000	1.945	7005.43	0.0075	P	3.5	-2.8
3	☐	5.000	4.915	17619.34	0.0189	P	2.9	-1.7
4	☐	10.000	9.654	34384.77	0.0370	P	2.8	-3.5
5	☐	100.000	100.203	353810.04	0.3833	P	0.8	0.2
6	☐	200.000	199.918	698869.83	0.7646	P	1.6	0.0

$$y = 0.0038 * x + 1.0831E-004$$

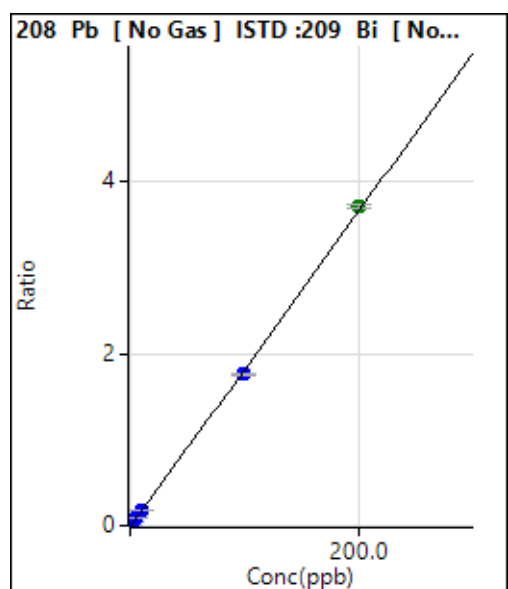
$$R = 1.0000$$

DL = 0.008206 ppb

BEC = 0.02832 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	400.01	0.0004	P	13.1	
2	☐	2.000	1.961	33889.02	0.0365	P	1.2	-1.9
3	☐	5.000	4.707	81081.23	0.0870	P	1.0	-5.9
4	☐	10.000	9.258	158498.38	0.1707	P	1.4	-7.4
5	☐	100.000	95.848	1627348.73	1.7630	P	1.0	-4.2
6	☐	200.000	202.121	3397506.36	3.7173	A	0.7	1.1

$$y = 0.0184 * x + 4.3328E-004$$

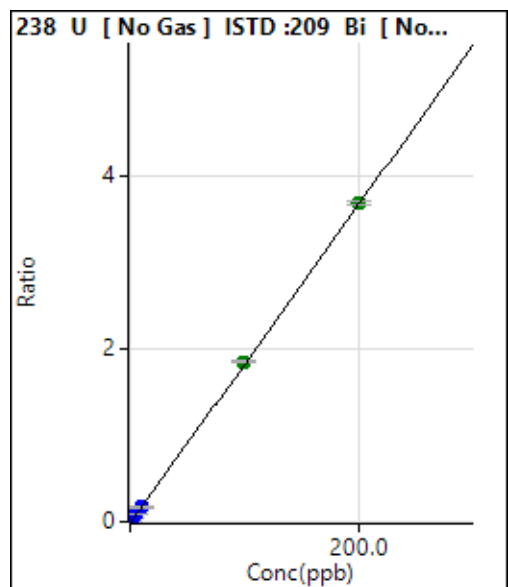
$$R = 0.9997$$

$$DL = 0.009281 \text{ ppb}$$

$$BEC = 0.02356 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.5	
2	☐	2.000	1.884	32343.29	0.0348	P	2.5	-5.8
3	☐	5.000	4.430	76328.56	0.0819	P	0.1	-11.4
4	☐	10.000	9.070	155682.21	0.1677	P	1.6	-9.3
5	☐	100.000	100.115	1707878.20	1.8503	A	1.3	0.1
6	☐	200.000	200.005	3378897.66	3.6965	A	1.4	0.0

$$y = 0.0185 * x + 1.8071E-005$$

$$R = 1.0000$$

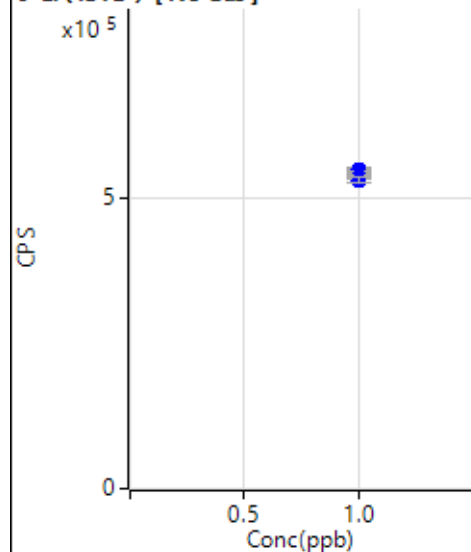
$$DL = 0.002038 \text{ ppb}$$

$$BEC = 0.0009778 \text{ ppb}$$

Weight: <None>

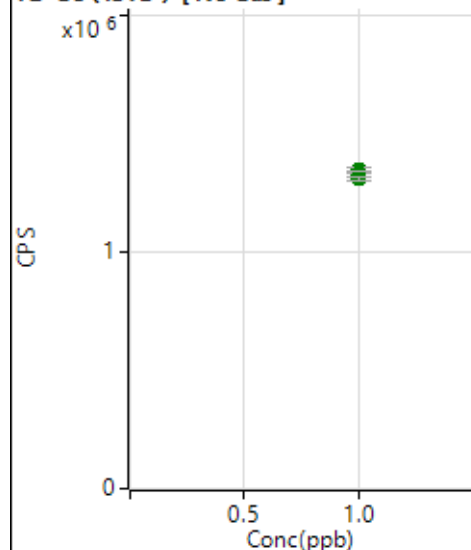
Min Conc: <None>

6 Li (ISTD) [No Gas]



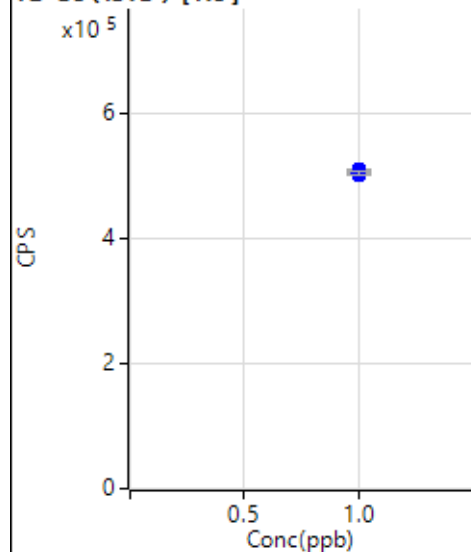
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		547647.74		P	0.7	
2	☐	1.000		550899.29		P	0.3	
3	☐	1.000		550867.94		P	0.7	
4	☐	1.000		547989.96		P	0.4	
5	☐	1.000		536527.93		P	1.2	
6	☐	1.000		532389.48		P	1.8	

72 Ge (ISTD) [No Gas]



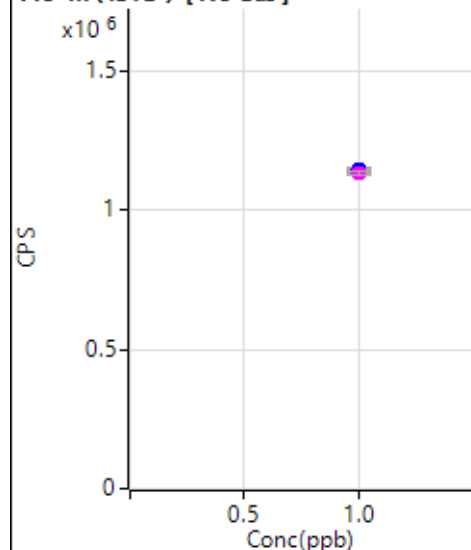
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1347492.79		A	1.8	
2	☐	1.000		1351994.51		A	1.6	
3	☐	1.000		1332261.70		A	2.3	
4	☐	1.000		1326901.80		A	0.9	
5	☐	1.000		1323377.77		A	2.5	
6	☐	1.000		1314337.95		A	1.2	

72 Ge (ISTD) [He]

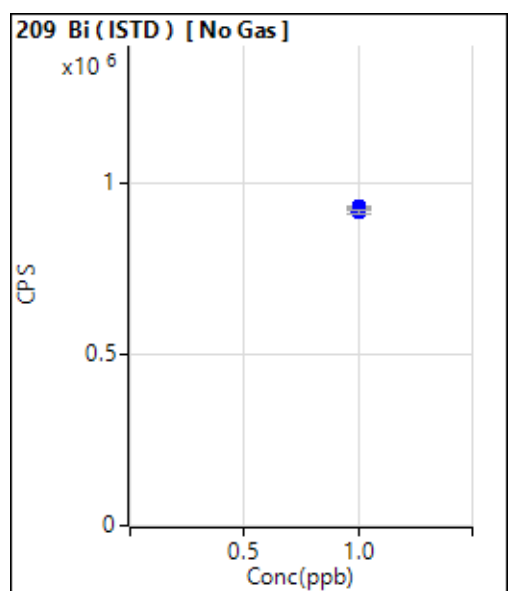


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		503154.39		P	1.0	
2	☐	1.000		511246.20		P	0.5	
3	☐	1.000		506967.77		P	0.7	
4	☐	1.000		506035.35		P	0.9	
5	☐	1.000		509385.16		P	1.3	
6	☐	1.000		504153.28		P	1.1	

115 In (ISTD) [No Gas]



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1132392.01		P	0.7	
2	☐	1.000		1142937.34		P	0.4	
3	☐	1.000		1146084.05		P	1.2	
4	☐	1.000		1137911.71		P	0.5	
5	☐	1.000		1133308.89		P	0.9	
6	☐	1.000		1131770.30		M	1.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		923104.13		P	0.4	
2	☐	1.000		928558.29		P	0.5	
3	☐	1.000		932153.21		P	0.6	
4	☐	1.000		928591.13		P	0.5	
5	☐	1.000		923040.17		P	0.4	
6	☐	1.000		914027.98		P	1.2	

Calibration Blank Report

Sample Table

Sample Name CAL BLK
 Data File Name 011CALB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:06:19-06:00
 Sample Type CalBlk
 Level 1
 Dilution 1
 Comment

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	31104	0.00
Be	9	1	No Gas	8	831.38
V	51	2	He	2430	0.16
Cr	52	2	He	2047	0.34
Fe	56	2	He	23173	0.01
Se	78	2	He	463	1.00
As	75	2	He	136	10.63
Ca	44	2	He	1010	0.77
Na	23	2	He	101027	0.00
Mg	24	2	He	327	3.01
K	39	2	He	113414	0.00
Mn	55	2	He	387	5.11
Co	59	2	He	63	51.90
Ni	60	2	He	97	16.35
Cu	63	2	He	1530	0.92
Zn	66	2	He	753	2.83
Al	27	2	He	697	0.24
B	11	1	No Gas	5141	0.09
Al	27	1	No Gas	18893	0.02
Si	28	1	No Gas	252885	0.00
Ag	107	1	No Gas	240	10.84
Cd	111	1	No Gas	3	5196.15
Sr	88	1	No Gas	370	2.92
Mo	95	1	No Gas	37	187.19
Sn	118	1	No Gas	800	1.09
Sb	121	1	No Gas	360	9.26
Ba	137	1	No Gas	227	7.37
Tl	205	1	No Gas	40	165.36
Tl	203	1	No Gas	27	81.19
Pb	208	1	No Gas	400	3.31
U	238	1	No Gas	17	415.69
Ca	43	2	He	63	100.76
Sb	121	2	He	217	6.51
Ti	47	2	He	10	1000.00
Cu	63	1	No Gas	2620	0.14

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
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Calibration Blank Report

Li	6	1	No Gas	547648	0.71
Ge	72	2	He	503154	1.03
Ge	72	1	No Gas	1347493	1.78
In	115	1	No Gas	1132392	0.68

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	923104	0.39



Calibration Standard Report

Sample Table

Sample Name 2/10/200
 Data File Name 012CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:08:13-06:00
 Sample Type CalStd
 Level 2
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	3560	0.19
V	51	2	He	9391	0.02
Cr	52	2	He	9650	0.01
Fe	56	2	He	783382	0.00
Se	78	2	He	560	0.68
As	75	2	He	1455	0.05
Ca	44	2	He	6252	0.07
Na	23	2	He	237865	0.00
Mg	24	2	He	83023	0.00
K	39	2	He	215785	0.00
Mn	55	2	He	6805	0.09
Co	59	2	He	11679	0.04
Ni	60	2	He	3144	0.21
Cu	63	2	He	9944	0.02
Zn	66	2	He	3040	0.16
Al	27	2	He	1173	0.98
B	11	1	No Gas	13270	0.04
Al	27	1	No Gas	35726	0.01
Si	28	1	No Gas	288803	0.00
Ag	107	1	No Gas	15236	0.02
Cd	111	1	No Gas	2994	0.16
Sr	88	1	No Gas	28287	0.00
Mo	95	1	No Gas	5698	0.07
Sn	118	1	No Gas	9207	0.05
Sb	121	1	No Gas	13117	0.01
Ba	137	1	No Gas	4621	0.05
Tl	205	1	No Gas	23285	0.00
Tl	203	1	No Gas	9430	0.01
Pb	208	1	No Gas	33889	0.00
U	238	1	No Gas	32343	0.01
Ca	43	2	He	317	3.50
Sb	121	2	He	8473	0.04
Cu	63	1	No Gas	16006	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	550899	0.29	547648	100.59	70	120	
Ge	72	2	He	511246	0.51	503154	101.61	70	120	
Ge	72	1	No Gas	1351995	1.58	1347493	100.33	70	120	



Calibration Standard Report

In	115	1	No Gas	1142937	0.35	1132392	100.93	70	120	
Bi	209	1	No Gas	928558	0.49	923104	100.59	70	120	



Calibration Standard Report

Sample Table

Sample Name 5/25/500
 Data File Name 013CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:10:07-06:00
 Sample Type CalStd
 Level 3
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	8839	0.02
V	51	2	He	18958	0.01
Cr	52	2	He	20743	0.01
Fe	56	2	He	1819522	0.00
Se	78	2	He	740	0.70
As	75	2	He	3097	0.17
Ca	44	2	He	12936	0.02
Na	23	2	He	423409	0.00
Mg	24	2	He	193071	0.00
K	39	2	He	355581	0.00
Mn	55	2	He	15442	0.03
Co	59	2	He	27879	0.00
Ni	60	2	He	7339	0.06
Cu	63	2	He	19841	0.03
Zn	66	2	He	4974	0.09
Al	27	2	He	1897	0.42
B	11	1	No Gas	25092	0.01
Al	27	1	No Gas	54203	0.00
Si	28	1	No Gas	332819	0.00
Ag	107	1	No Gas	36969	0.00
Cd	111	1	No Gas	7159	0.01
Sr	88	1	No Gas	66345	0.00
Mo	95	1	No Gas	13270	0.03
Sn	118	1	No Gas	21341	0.01
Sb	121	1	No Gas	30158	0.01
Ba	137	1	No Gas	10655	0.03
Tl	205	1	No Gas	54386	0.00
Tl	203	1	No Gas	22694	0.01
Pb	208	1	No Gas	81081	0.00
U	238	1	No Gas	76329	0.00
Ca	43	2	He	733	1.42
Sb	121	2	He	20627	0.01
Cu	63	1	No Gas	32212	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	550868	0.68	547648	100.59	70	120	
Ge	72	2	He	506968	0.69	503154	100.76	70	120	
Ge	72	1	No Gas	1332262	2.31	1347493	98.87	70	120	



Calibration Standard Report

In	115	1	No Gas	1146084	1.19	1132392	101.21	70	120	
Bi	209	1	No Gas	932153	0.59	923104	100.98	70	120	



Calibration Standard Report

Sample Table

Sample Name 10/50/100
 Data File Name 014CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:12:01-06:00
 Sample Type CalStd
 Level 4
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	17998	0.00
V	51	2	He	35949	0.00
Cr	52	2	He	40286	0.00
Fe	56	2	He	3524659	0.00
Se	78	2	He	987	0.24
As	75	2	He	6060	0.01
Ca	44	2	He	25167	0.01
Na	23	2	He	750566	0.00
Mg	24	2	He	389928	0.00
K	39	2	He	604003	0.00
Mn	55	2	He	29886	0.01
Co	59	2	He	54978	0.00
Ni	60	2	He	13951	0.01
Cu	63	2	He	38054	0.00
Zn	66	2	He	8660	0.05
Al	27	2	He	2884	0.16
B	11	1	No Gas	45885	0.01
Al	27	1	No Gas	87270	0.00
Si	28	1	No Gas	416086	0.00
Ag	107	1	No Gas	73002	0.00
Cd	111	1	No Gas	14715	0.03
Sr	88	1	No Gas	132877	0.00
Mo	95	1	No Gas	27208	0.00
Sn	118	1	No Gas	42349	0.01
Sb	121	1	No Gas	59803	0.01
Ba	137	1	No Gas	20603	0.01
Tl	205	1	No Gas	111524	0.00
Tl	203	1	No Gas	46413	0.00
Pb	208	1	No Gas	158498	0.00
U	238	1	No Gas	155682	0.00
Ca	43	2	He	1460	0.87
Sb	121	2	He	41516	0.00
Cu	63	1	No Gas	61660	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	547990	0.36	547648	100.06	70	120	
Ge	72	2	He	506035	0.92	503154	100.57	70	120	
Ge	72	1	No Gas	1326902	0.93	1347493	98.47	70	120	



Calibration Standard Report

In	115	1	No Gas	1137912	0.47	1132392	100.49	70	120	
Bi	209	1	No Gas	928591	0.47	923104	100.59	70	120	



Calibration Standard Report

Sample Table

Sample Name 100/500/10K
 Data File Name 015CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:13:55-06:00
 Sample Type CalStd
 Level 5
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	178764	0.00
V	51	2	He	340590	0.00
Cr	52	2	He	382904	0.00
Fe	56	2	He	34321280	0.00
Se	78	2	He	6404	0.05
As	75	2	He	61180	0.00
Ca	44	2	He	248931	0.00
Na	23	2	He	6325838	0.00
Mg	24	2	He	3814351	0.00
K	39	2	He	4829149	0.00
Mn	55	2	He	299793	0.00
Co	59	2	He	561311	0.00
Ni	60	2	He	142178	0.00
Cu	63	2	He	380629	0.00
Zn	66	2	He	80934	0.00
Al	27	2	He	25026	0.01
B	11	1	No Gas	416414	0.00
Al	27	1	No Gas	725365	0.00
Si	28	1	No Gas	1881129	0.00
Ag	107	1	No Gas	741819	0.00
Cd	111	1	No Gas	146657	0.00
Sr	88	1	No Gas	1372928	0.00
Mo	95	1	No Gas	276341	0.00
Sn	118	1	No Gas	421376	0.00
Sb	121	1	No Gas	605592	0.00
Ba	137	1	No Gas	214941	0.00
Tl	205	1	No Gas	1165430	0.00
Tl	203	1	No Gas	483680	0.00
Pb	208	1	No Gas	1627349	0.00
U	238	1	No Gas	1707878	0.00
Ca	43	2	He	14515	0.01
Sb	121	2	He	416133	0.00
Cu	63	1	No Gas	599755	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	536528	1.21	547648	97.97	70	120	
Ge	72	2	He	509385	1.31	503154	101.24	70	120	
Ge	72	1	No Gas	1323378	2.54	1347493	98.21	70	120	



Calibration Standard Report

In	115	1	No Gas	1133309	0.85	1132392	100.08	70	120	
Bi	209	1	No Gas	923040	0.37	923104	99.99	70	120	

Calibration Standard Report

Sample Table

Sample Name 200/1000/20K
 Data File Name 016CAL.S.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:15:47-06:00
 Sample Type CalStd
 Level 6
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	350337	0.00
V	51	2	He	675228	0.00
Cr	52	2	He	755225	0.00
Fe	56	2	He	67754672	0.00
Se	78	2	He	12038	0.01
As	75	2	He	119666	0.00
Ca	44	2	He	493068	0.00
Na	23	2	He	12387284	0.00
Mg	24	2	He	7473374	0.00
K	39	2	He	9423843	0.00
Mn	55	2	He	588911	0.00
Co	59	2	He	1076189	0.00
Ni	60	2	He	278240	0.00
Cu	63	2	He	746230	0.00
Zn	66	2	He	154048	0.00
Al	27	2	He	48157	0.00
B	11	1	No Gas	810066	0.00
Al	27	1	No Gas	1334208	0.00
Si	28	1	No Gas	3314843	0.00
Ag	107	1	No Gas	1537312	0.00
Cd	111	1	No Gas	289376	0.00
Sr	88	1	No Gas	2708755	0.00
Mo	95	1	No Gas	547849	0.00
Sn	118	1	No Gas	841802	0.00
Sb	121	1	No Gas	1237982	0.00
Ba	137	1	No Gas	417401	0.00
Tl	205	1	No Gas	2464196	0.00
Tl	203	1	No Gas	954065	0.00
Pb	208	1	No Gas	3397506	0.00
U	238	1	No Gas	3378898	0.00
Ca	43	2	He	28874	0.00
Sb	121	2	He	817839	0.00
Cu	63	1	No Gas	1217165	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	532389	1.82	547648	97.21	70	120	
Ge	72	2	He	504153	1.10	503154	100.20	70	120	
Ge	72	1	No Gas	1314338	1.15	1347493	97.54	70	120	



Calibration Standard Report

In	115	1	No Gas	1131770	1.61	1132392	99.95	70	120	
Bi	209	1	No Gas	914028	1.24	923104	99.02	70	120	



Initial Calibration Verification (ICV) Report

Sample Table

Sample Name ICV
 Data File Name 019_ICV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:21:23-06:00
 Sample Type ICV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Pass
 ISTD Pass/Fail Pass

QC Analyte Table

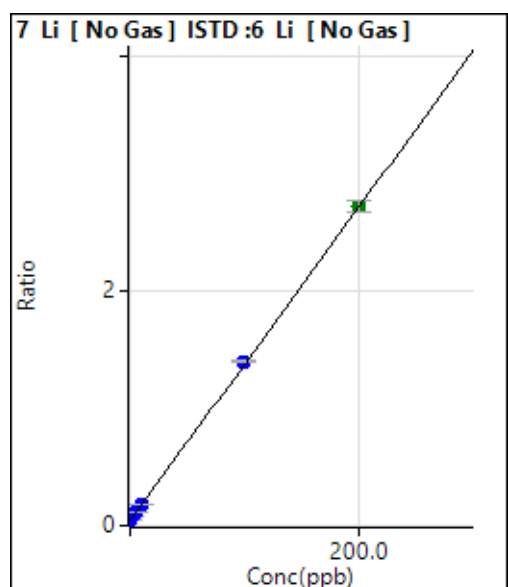
Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.849	4.311	776179	3.72	100	100.8	90	110	
Be	9	1	No Gas	98.090	0.472	178916	0.79	100	98.1	90	110	
V	51	2	He	96.875	0.688	343676	0.37	100	96.9	90	110	
Cr	52	2	He	96.893	0.866	384570	0.57	100	96.9	90	110	
Fe	56	2	He	9509.978	1.426	33790453	1.04	10000	95.1	90	110	
Se	78	2	He	96.840	1.741	6375	1.18	100	96.8	90	110	
As	75	2	He	101.723	0.361	63986	0.30	100	101.7	90	110	
Ca	44	2	He	9554.129	1.327	247227	1.21	10000	95.5	90	110	
Na	23	2	He	9465.967	0.858	6203411	0.38	10000	94.7	90	110	
Mg	24	2	He	9684.614	0.513	3800420	0.42	10000	96.8	90	110	
K	39	2	He	9584.775	2.179	4796950	1.85	10000	95.8	90	110	
Mn	55	2	He	97.248	1.406	300685	1.06	100	97.2	90	110	
Co	59	2	He	99.162	1.551	562675	1.08	100	99.2	90	110	
Ni	60	2	He	98.121	1.015	143411	0.54	100	98.1	90	110	
Cu	63	2	He	97.026	1.568	380712	1.16	100	97.0	90	110	
Zn	66	2	He	99.394	1.174	81199	1.27	100	99.4	90	110	
Al	27	2	He	98.535	0.952	25297	0.86	100	98.5	90	110	
B	11	1	No Gas	490.942	2.225	416774	2.65	500	98.2	90	110	
Al	27	1	No Gas	97.328	1.094	703851	0.46	100	97.3	90	110	
Si	28	1	No Gas	503.427	2.482	1907696	1.65	500	100.7	90	110	
Ag	107	1	No Gas	94.482	0.418	742323	1.09	100	94.5	90	110	
Cd	111	1	No Gas	98.914	0.706	147710	0.50	100	98.9	90	110	
Sr	88	1	No Gas	99.659	1.521	1393241	0.88	100	99.7	90	110	
Mo	95	1	No Gas	96.542	0.710	272701	1.15	100	96.5	90	110	
Sn	118	1	No Gas	99.423	0.464	431131	0.70	100	99.4	90	110	
Sb	121	1	No Gas	94.690	1.177	614654	0.96	100	94.7	90	110	
Ba	137	1	No Gas	99.880	0.301	215936	0.65	100	99.9	90	110	
Tl	205	1	No Gas	96.154	0.455	1214840	0.35	100	96.2	90	110	
Tl	203	1	No Gas	102.061	0.513	506125	1.06	100	102.1	90	110	
Pb	208	1	No Gas	93.210	0.517	1627653	0.84	100	93.2	90	110	
U	238	1	No Gas	98.414	2.102	1726736	2.18	100	98.4	90	110	
Ca	43	2	He	9756.498	4.415	14771	4.35	10000	97.6	90	110	
Sb	121	2	He	97.774	1.329	419653	0.94	100	97.8	90	110	
Ti	47	2	He	99.014	1.304	13964	1.04	100	99.0	90	110	
Cu	63	1	No Gas	94.684	1.619	606098	0.81	100	94.7	90	110	
Se	82	1	No Gas	97.034	0.922	9006	0.06	100	97.0	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	552822	0.46	547648	100.94	70	120	
Ge	72	2	He	528262	0.47	503154	104.99	70	120	
Ge	72	1	No Gas	1385856	0.86	1347493	102.85	70	120	
In	115	1	No Gas	1165218	0.95	1132392	102.90	70	120	
Bi	209	1	No Gas	949345	0.65	923104	102.84	70	120	

Batch Folder: D:\Agilent\ICPMH\1\DATA\012423D.b\
Analysis File: 012423D.batch.bin
DA Date-Time: 01/24/2023 19:36:14
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	011CALB.d	CAL BLK	01/24/2023 14:06:19
2	012CALS.d	2/10/200	01/24/2023 14:08:13
3	013CALS.d	5/25/500	01/24/2023 14:10:07
4	014CALS.d	10/50/100	01/24/2023 14:12:01
5	015CALS.d	100/500/10K	01/24/2023 14:13:55
6	016CALS.d	200/1000/20K	01/24/2023 14:15:47



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	31104.43	0.0568	P	1.1	
2	☐	2.000	2.046	46344.58	0.0841	P	2.3	2.3
3	☐	5.000	4.830	66840.23	0.1213	P	1.2	-3.4
4	☐	10.000	9.774	102684.64	0.1874	P	0.2	-2.3
5	☐	100.000	100.745	752594.42	1.4028	P	0.8	0.7
6	☐	200.000	199.643	1449657.63	2.7241	A	3.9	-0.2

$$y = 0.0134 * x + 0.0568$$

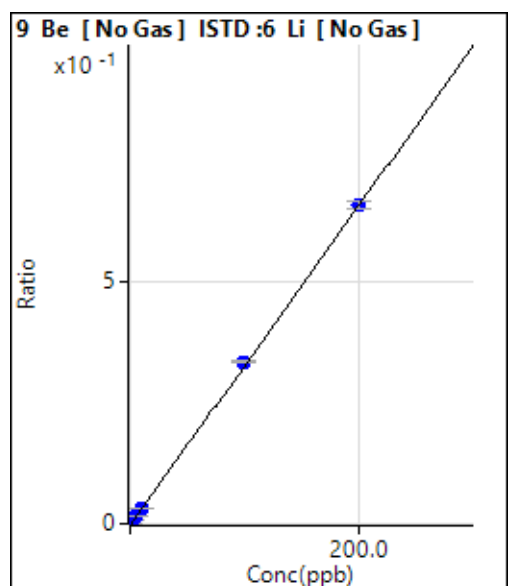
$$R = 1.0000$$

$$DL = 0.1385 \text{ ppb}$$

$$BEC = 4.251 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8.33	0.0000	P	68.9	
2	☐	2.000	1.954	3560.48	0.0065	P	6.5	-2.3
3	☐	5.000	4.860	8839.49	0.0160	P	2.0	-2.8
4	☐	10.000	9.950	17998.29	0.0328	P	0.7	-0.5
5	☐	100.000	100.994	178763.92	0.3332	P	1.2	1.0
6	☐	200.000	199.510	350337.32	0.6582	P	2.5	-0.2

$$y = 0.0033 * x + 1.5192E-005$$

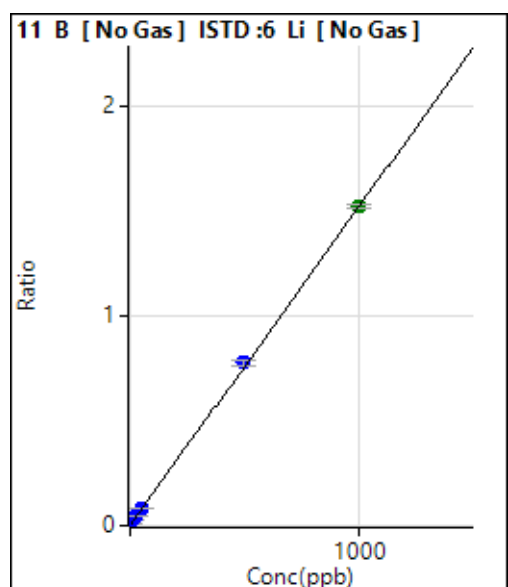
$$R = 1.0000$$

$$DL = 0.009516 \text{ ppb}$$

$$BEC = 0.004605 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5140.98	0.0094	P	4.8	
2	☐	10.000	9.693	13269.70	0.0241	P	5.0	-3.1
3	☐	25.000	23.848	25092.48	0.0456	P	1.4	-4.6
4	☐	50.000	49.028	45885.01	0.0837	P	2.6	-1.9
5	☐	500.000	505.613	416414.24	0.7761	P	3.0	1.1
6	☐	1000.000	997.274	810065.72	1.5217	A	0.7	-0.3

$$y = 0.0015 * x + 0.0094$$

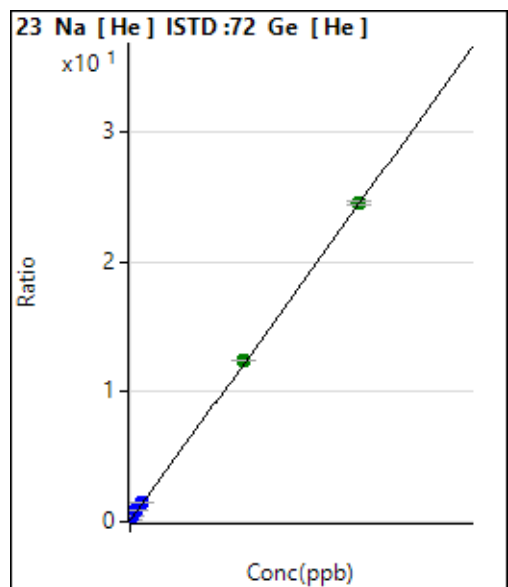
$$R = 1.0000$$

$$DL = 0.8907 \text{ ppb}$$

$$BEC = 6.191 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101027.18	0.2008	P	0.3	
2	☐	200.000	216.903	237864.85	0.4653	P	0.5	8.5
3	☐	500.000	520.274	423408.73	0.8352	P	0.4	4.1
4	☐	1000.000	1051.794	750565.64	1.4833	P	1.0	5.2
5	☐	10000.00	10020.17	6325838.45	12.4192	A	0.8	0.2
6	☐	20000.00	19986.64	12387284.4	24.5720	A	0.9	-0.1

$$y = 0.0012 * x + 0.2008$$

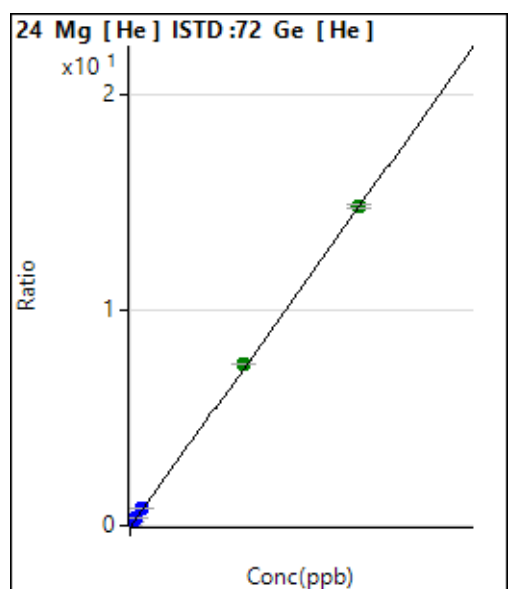
$$R = 1.0000$$

$$DL = 1.686 \text{ ppb}$$

$$BEC = 164.7 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0006	P	9.6	
2	☐	200.000	217.755	83023.37	0.1624	P	0.5	8.9
3	☐	500.000	511.849	193071.45	0.3808	P	0.5	2.4
4	☐	1000.000	1036.521	389928.35	0.7706	P	1.0	3.7
5	☐	10000.00	10080.56	3814350.88	7.4884	A	0.5	0.8
6	☐	20000.00	19957.41	7473373.84	14.8248	A	1.1	-0.2

$$y = 7.4279E-004 * x + 6.4920E-004$$

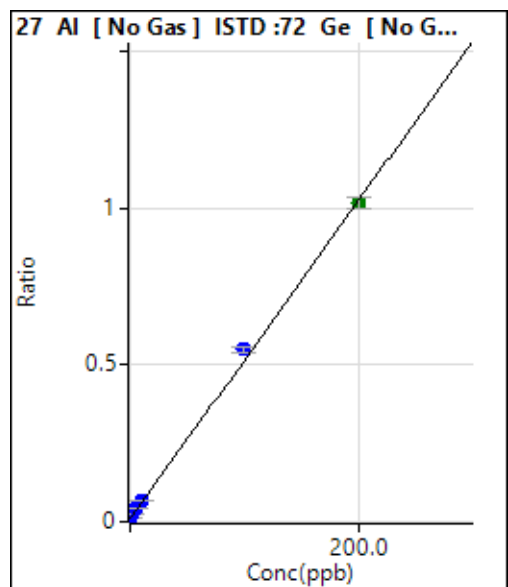
$$R = 1.0000$$

$$DL = 0.2529 \text{ ppb}$$

$$BEC = 0.874 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18893.14	0.0140	P	3.7	
2	☐	2.000	2.445	35726.35	0.0264	P	3.1	22.3
3	☐	5.000	5.257	54203.31	0.0407	P	2.5	5.1
4	☐	10.000	10.198	87270.42	0.0658	P	2.1	2.0
5	☐	100.000	105.292	725364.81	0.5483	P	2.6	5.3
6	☐	200.000	197.333	1334208.47	1.0154	A	3.5	-1.3

$$y = 0.0051 * x + 0.0140$$

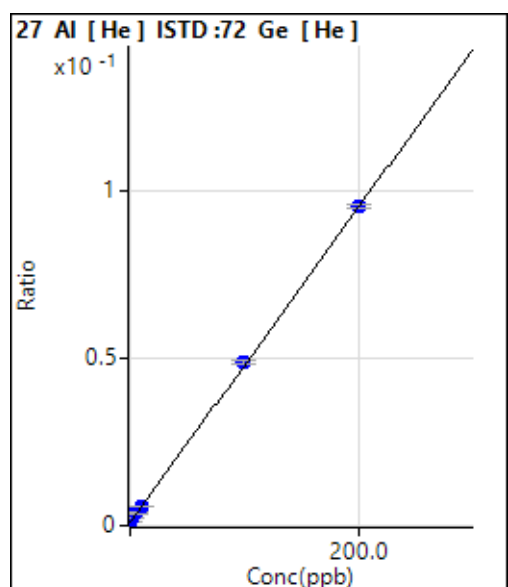
$$R = 0.9995$$

$$DL = 0.3059 \text{ ppb}$$

$$BEC = 2.764 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	696.69	0.0014	P	2.0	
2	☐	2.000	1.930	1173.40	0.0023	P	11.6	-3.5
3	☐	5.000	4.994	1896.83	0.0037	P	8.0	-0.1
4	☐	10.000	9.140	2883.68	0.0057	P	4.5	-8.6
5	☐	100.000	101.167	25026.04	0.0491	P	2.4	1.2
6	☐	200.000	199.460	48156.97	0.0955	P	0.9	-0.3

$$y = 4.7194\text{E-}004 * x + 0.0014$$

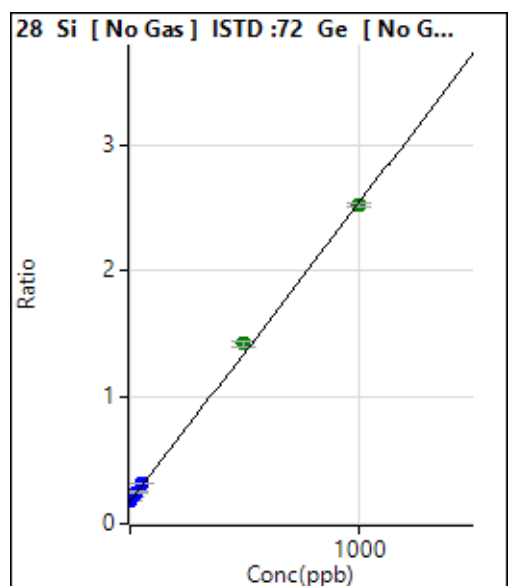
$$R = 1.0000$$

$$DL = 0.1775 \text{ ppb}$$

$$BEC = 2.934 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	252884.69	0.1877	P	0.7	
2	☐	10.000	10.993	288803.26	0.2136	P	1.9	9.9
3	☐	25.000	26.339	332818.71	0.2499	P	2.3	5.4
4	☐	50.000	53.313	416085.50	0.3136	P	1.2	6.6
5	☐	500.000	522.670	1881129.09	1.4221	A	2.8	4.5
6	☐	1000.000	988.456	3314842.55	2.5222	A	1.7	-1.2

$$y = 0.0024 * x + 0.1877$$

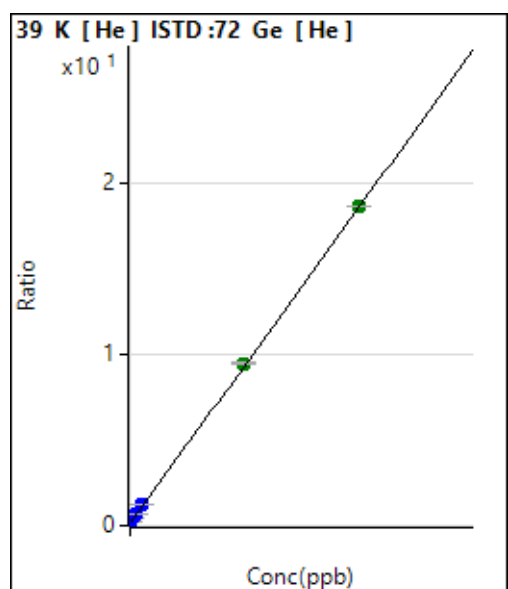
$$R = 0.9996$$

$$DL = 1.628 \text{ ppb}$$

$$BEC = 79.47 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113414.31	0.2254	P	2.1	
2	☐	200.000	212.846	215784.80	0.4221	P	0.9	6.4
3	☐	500.000	515.152	355581.01	0.7014	P	0.3	3.0
4	☐	1000.000	1047.945	604002.63	1.1937	P	0.8	4.8
5	☐	10000.00	10017.69	4829149.31	9.4810	A	1.2	0.2
6	☐	20000.00	19988.25	9423842.57	18.6930	A	0.5	-0.1

$$y = 9.2392\text{E-}004 * x + 0.2254$$

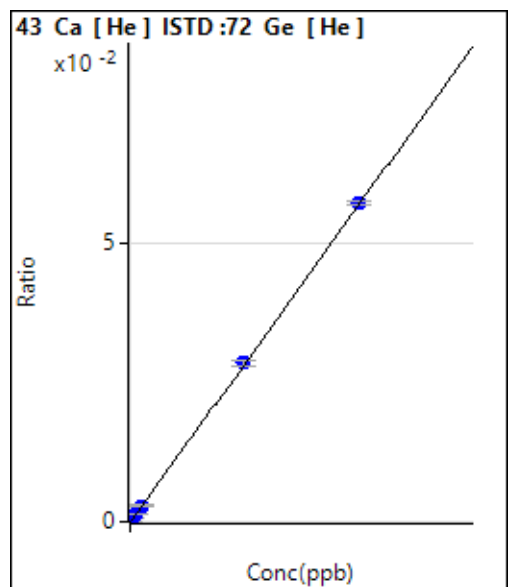
$$R = 1.0000$$

DL = 15.02 ppb

BEC = 244 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	64.7	
2	☐	200.000	172.748	316.68	0.0006	P	10.6	-13.6
3	☐	500.000	462.516	733.37	0.0014	P	9.8	-7.5
4	☐	1000.000	966.680	1460.11	0.0029	P	12.3	-3.3
5	☐	10000.00	9945.147	14514.66	0.0285	P	3.1	-0.5
6	☐	20000.00	20030.30	28873.84	0.0573	P	1.1	0.2

$$y = 2.8531\text{E-}006 * x + 1.2633\text{E-}004$$

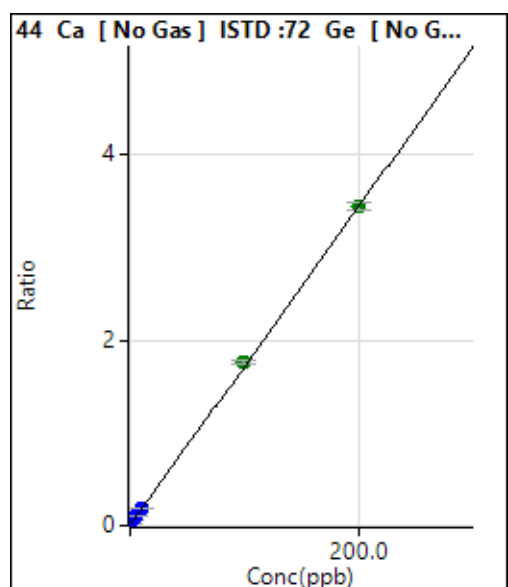
$$R = 1.0000$$

DL = 86 ppb

BEC = 44.28 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26672.93	0.0198	P	2.1	
2	☐	2.000	2.114	75875.20	0.0561	P	1.4	5.7
3	☐	5.000	5.017	141208.95	0.1060	P	2.4	0.3
4	☐	10.000	10.158	257908.17	0.1944	P	1.2	1.6
5	☐	100.000	101.605	2336336.16	1.7661	A	2.3	1.6
6	☐	200.000	199.188	4525142.74	3.4433	A	2.2	-0.4

$$y = 0.0172 * x + 0.0198$$

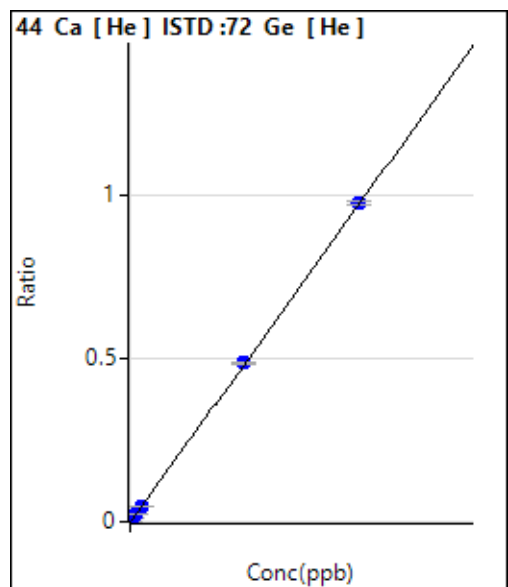
$$R = 1.0000$$

$$DL = 0.07133 \text{ ppb}$$

$$BEC = 1.152 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1010.06	0.0020	P	7.7	
2	☐	200.000	209.584	6251.54	0.0122	P	4.7	4.8
3	☐	500.000	482.069	12936.31	0.0255	P	3.5	-3.6
4	☐	1000.000	978.472	25166.59	0.0497	P	0.6	-2.2
5	☐	10000.00	9979.116	248931.21	0.4887	P	1.2	-0.2
6	☐	20000.00	20011.87	493067.73	0.9781	P	1.2	0.1

$$y = 4.8775E-005 * x + 0.0020$$

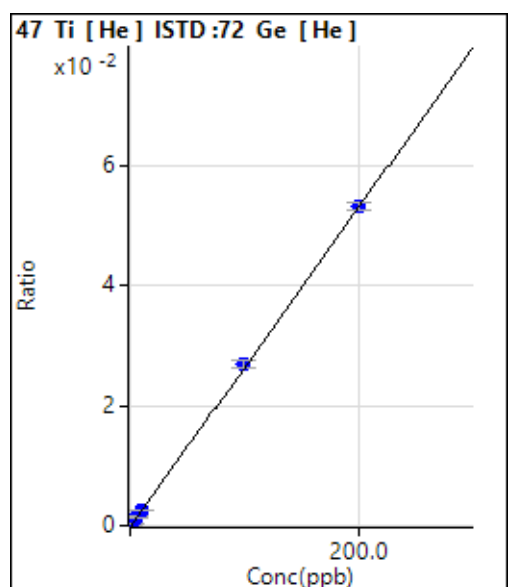
$$R = 1.0000$$

$$DL = 9.455 \text{ ppb}$$

$$BEC = 41.16 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	99.6	
2	☐	2.000	1.661	236.68	0.0005	P	6.0	-17.0
3	☐	5.000	5.325	730.04	0.0014	P	9.4	6.5
4	☐	10.000	9.409	1280.09	0.0025	P	9.6	-5.9
5	☐	100.000	100.767	13700.39	0.0269	P	4.9	0.8
6	☐	200.000	199.642	26863.42	0.0533	P	2.8	-0.2

$$y = 2.6678\text{E-}004 * x + 1.9740\text{E-}005$$

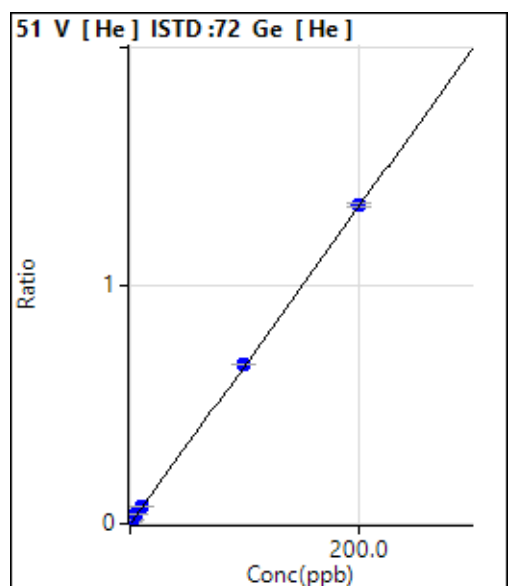
$$R = 1.0000$$

$$DL = 0.2211 \text{ ppb}$$

$$BEC = 0.07399 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2430.23	0.0048	P	3.5	
2	☐	2.000	2.031	9391.03	0.0184	P	2.1	1.6
3	☐	5.000	4.885	18957.62	0.0374	P	2.5	-2.3
4	☐	10.000	9.933	35949.27	0.0710	P	0.6	-0.7
5	☐	100.000	99.588	340589.51	0.6687	P	0.9	-0.4
6	☐	200.000	200.212	675227.80	1.3394	P	1.0	0.1

$$y = 0.0067 * x + 0.0048$$

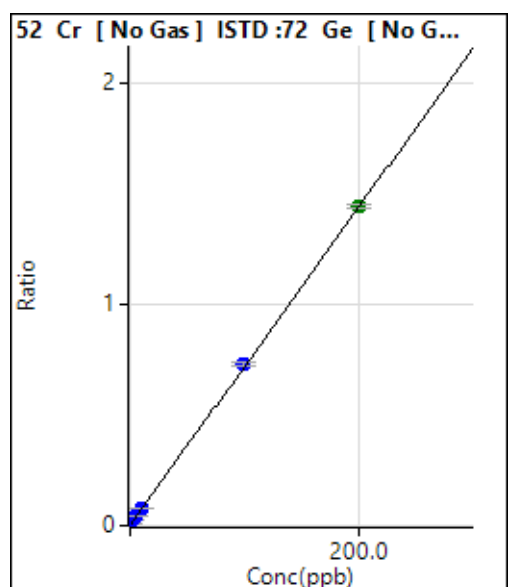
$$R = 1.0000$$

$$DL = 0.07567 \text{ ppb}$$

$$BEC = 0.7246 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12552.63	0.0093	P	2.0	
2	☐	2.000	2.062	32579.22	0.0241	P	3.5	3.1
3	☐	5.000	4.811	58374.54	0.0438	P	0.9	-3.8
4	☐	10.000	10.115	108619.23	0.0819	P	1.1	1.2
5	☐	100.000	100.872	969396.60	0.7328	P	2.4	0.9
6	☐	200.000	199.562	1893367.73	1.4407	A	1.4	-0.2

$$y = 0.0072 * x + 0.0093$$

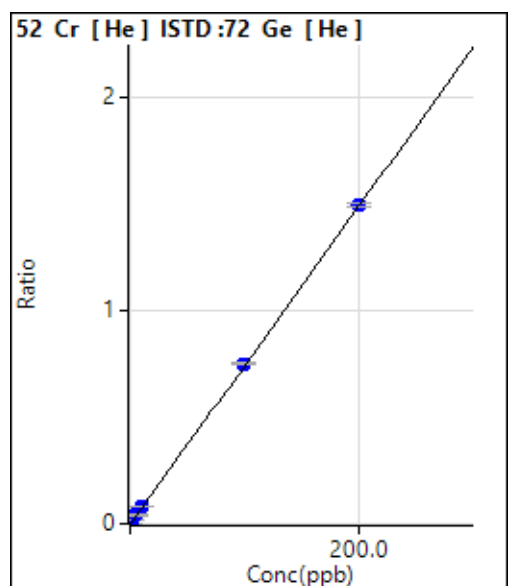
$$R = 1.0000$$

$$DL = 0.07667 \text{ ppb}$$

$$BEC = 1.299 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0041	P	7.3	
2	☐	2.000	1.982	9650.25	0.0189	P	1.6	-0.9
3	☐	5.000	4.932	20742.71	0.0409	P	1.7	-1.4
4	☐	10.000	10.111	40286.17	0.0796	P	1.1	1.1
5	☐	100.000	100.072	382903.76	0.7518	P	0.9	0.1
6	☐	200.000	199.960	755225.48	1.4981	P	0.6	0.0

$$y = 0.0075 * x + 0.0041$$

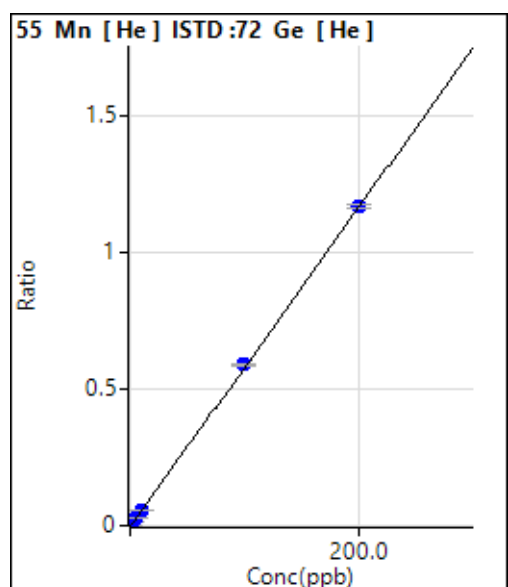
$$R = 1.0000$$

$$DL = 0.1197 \text{ ppb}$$

$$BEC = 0.5446 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	386.68	0.0008	P	20.8	
2	☐	2.000	2.146	6805.16	0.0133	P	6.1	7.3
3	☐	5.000	5.081	15442.34	0.0305	P	5.1	1.6
4	☐	10.000	9.973	29886.40	0.0591	P	2.3	-0.3
5	☐	100.000	100.561	299792.83	0.5886	P	0.8	0.6
6	☐	200.000	199.717	588910.94	1.1682	P	0.7	-0.1

$$y = 0.0058 * x + 7.6957E-004$$

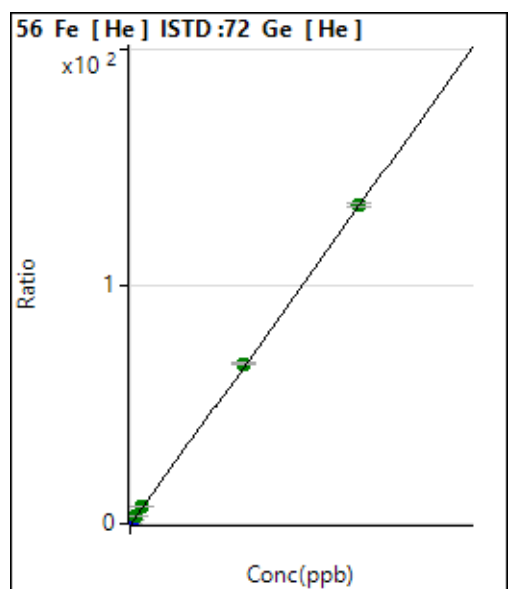
$$R = 1.0000$$

$$DL = 0.08196 \text{ ppb}$$

$$BEC = 0.1317 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23173.30	0.0461	P	0.6	
2	☐	200.000	221.121	783381.50	1.5323	P	0.5	10.6
3	☐	500.000	527.093	1819521.95	3.5889	A	1.0	5.4
4	☐	1000.000	1029.517	3524658.70	6.9660	A	1.9	3.0
5	☐	10000.00	10017.98	34321280.3	67.3824	A	0.8	0.2
6	☐	20000.00	19988.64	67754672.3	134.400	A	1.1	-0.1

$$y = 0.0067 * x + 0.0461$$

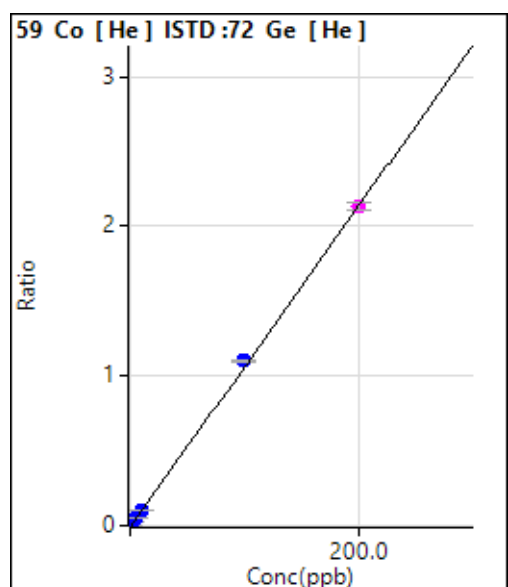
$$R = 1.0000$$

$$DL = 0.1135 \text{ ppb}$$

$$BEC = 6.852 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	32.4	
2	☐	2.000	2.115	11678.55	0.0228	P	3.6	5.7
3	☐	5.000	5.108	27878.83	0.0550	P	1.4	2.2
4	☐	10.000	10.104	54978.02	0.1086	P	0.1	1.0
5	☐	100.000	102.595	561311.49	1.1021	P	1.4	2.6
6	☐	200.000	198.694	1076189.38	2.1342	M	2.7	-0.7

$$y = 0.0107 * x + 1.2569E-004$$

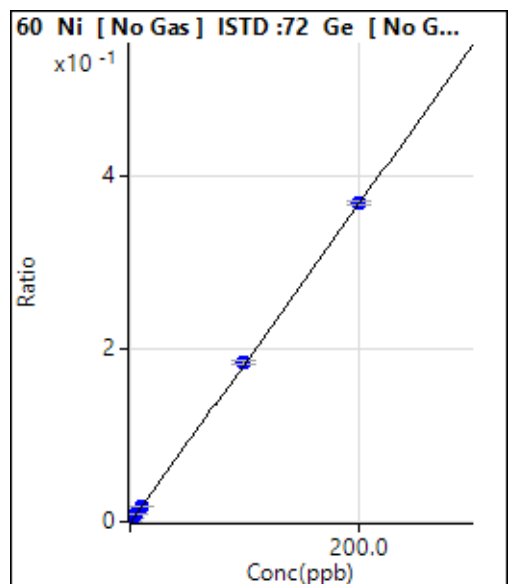
$$R = 0.9999$$

$$DL = 0.01139 \text{ ppb}$$

$$BEC = 0.0117 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	6.1	
2	☐	2.000	2.031	5317.79	0.0039	P	3.5	1.5
3	☐	5.000	4.818	12105.57	0.0091	P	6.0	-3.6
4	☐	10.000	9.871	24465.64	0.0184	P	1.0	-1.3
5	☐	100.000	100.347	245792.80	0.1858	P	2.5	0.3
6	☐	200.000	199.837	486049.50	0.3698	P	1.3	-0.1

$$y = 0.0018 * x + 1.7804E-004$$

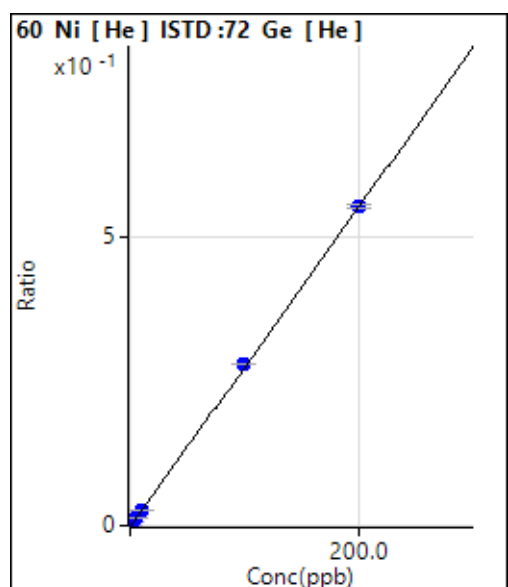
$$R = 1.0000$$

$$DL = 0.01762 \text{ ppb}$$

$$BEC = 0.09625 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0002	P	16.8	
2	☐	2.000	2.155	3143.75	0.0062	P	7.1	7.8
3	☐	5.000	5.166	7338.77	0.0145	P	4.5	3.3
4	☐	10.000	9.902	13950.71	0.0276	P	0.7	-1.0
5	☐	100.000	100.886	142177.87	0.2791	P	0.6	0.9
6	☐	200.000	199.556	278239.97	0.5519	P	1.1	-0.2

$$y = 0.0028 * x + 1.9234E-004$$

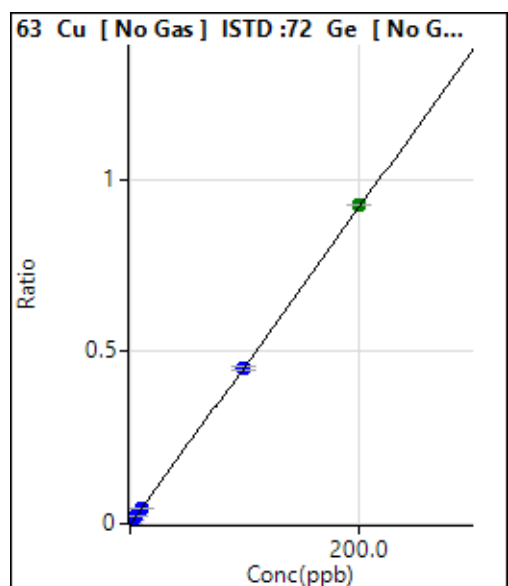
$$R = 1.0000$$

$$DL = 0.03499 \text{ ppb}$$

$$BEC = 0.06957 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2620.30	0.0019	P	5.4	
2	☐	2.000	2.151	16006.39	0.0118	P	0.9	7.6
3	☐	5.000	4.837	32211.84	0.0242	P	2.8	-3.3
4	☐	10.000	9.683	61660.37	0.0465	P	1.8	-3.2
5	☐	100.000	98.164	599755.42	0.4534	P	2.5	-1.8
6	☐	200.000	200.937	1217164.67	0.9260	A	0.6	0.5

$$y = 0.0046 * x + 0.0019$$

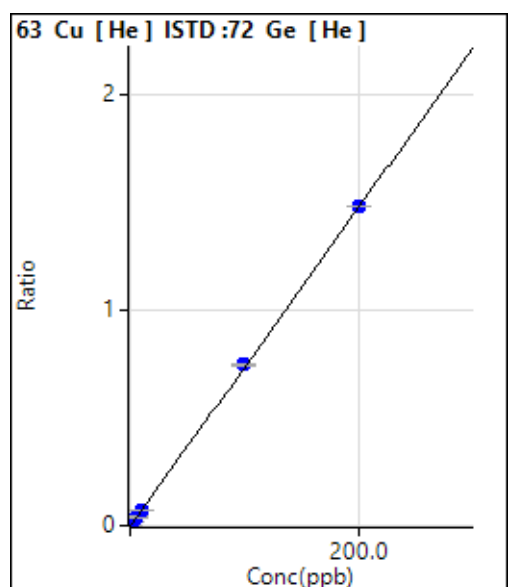
$$R = 0.9999$$

$$DL = 0.06842 \text{ ppb}$$

$$BEC = 0.4231 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1530.11	0.0030	P	15.1	
2	☐	2.000	2.218	9943.81	0.0194	P	1.3	10.9
3	☐	5.000	4.879	19841.47	0.0391	P	5.2	-2.4
4	☐	10.000	9.755	38053.67	0.0752	P	1.2	-2.4
5	☐	100.000	100.621	380628.81	0.7473	P	1.3	0.6
6	☐	200.000	199.702	746230.43	1.4802	P	0.2	-0.1

$$y = 0.0074 * x + 0.0030$$

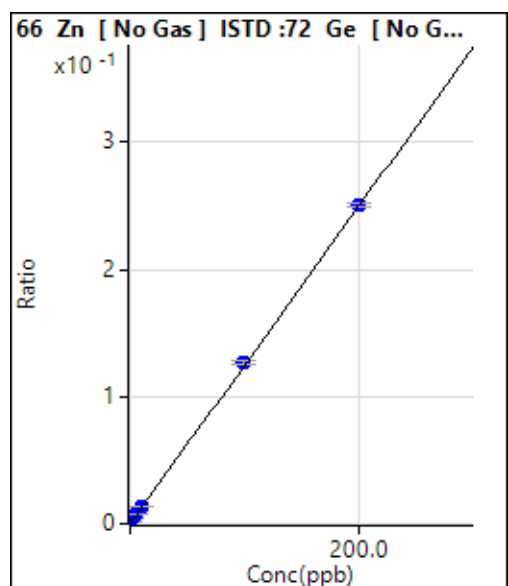
$$R = 1.0000$$

$$DL = 0.1864 \text{ ppb}$$

$$BEC = 0.4116 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1673.47	0.0012	P	4.0	
2	☐	2.000	2.635	6124.87	0.0045	P	2.5	31.7
3	☐	5.000	5.358	10560.95	0.0079	P	2.9	7.2
4	☐	10.000	9.728	17758.56	0.0134	P	4.0	-2.7
5	☐	100.000	100.357	167340.06	0.1265	P	3.0	0.4
6	☐	200.000	199.820	329448.44	0.2507	P	0.8	-0.1

$$y = 0.0012 * x + 0.0012$$

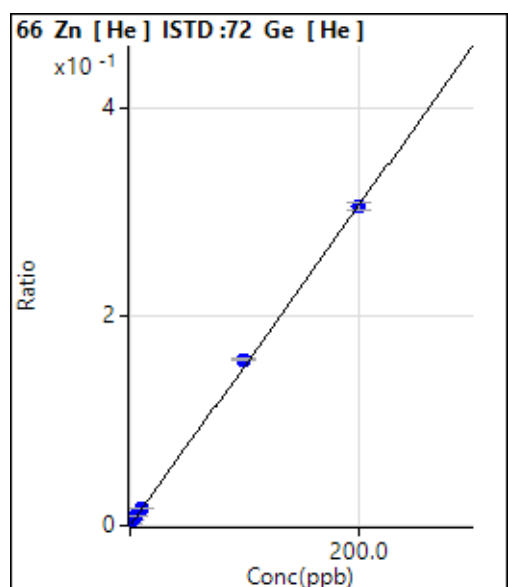
$$R = 1.0000$$

$$DL = 0.1196 \text{ ppb}$$

$$BEC = 0.9948 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	753.36	0.0015	P	20.6	
2	☐	2.000	2.907	3040.39	0.0059	P	4.9	45.3
3	☐	5.000	5.431	4974.33	0.0098	P	5.1	8.6
4	☐	10.000	10.196	8659.58	0.0171	P	4.0	2.0
5	☐	100.000	102.786	80934.13	0.1589	P	1.6	2.8
6	☐	200.000	198.577	154047.58	0.3056	P	2.0	-0.7

$$y = 0.0015 * x + 0.0015$$

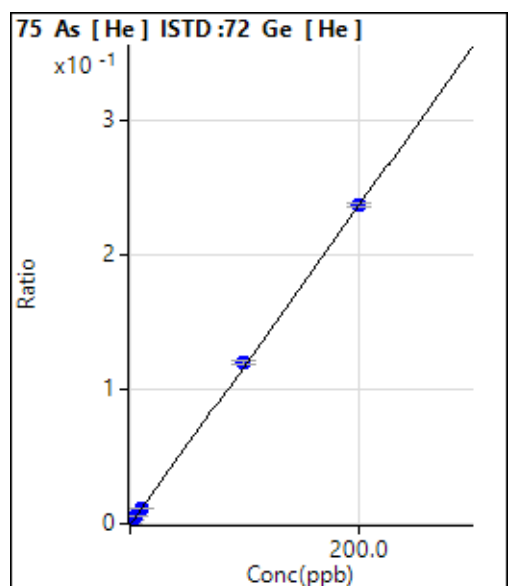
$$R = 0.9999$$

$$DL = 0.603 \text{ ppb}$$

$$BEC = 0.9769 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	135.56	0.0003	P	14.6	
2	☐	2.000	2.168	1454.53	0.0028	P	0.3	8.4
3	☐	5.000	4.915	3097.04	0.0061	P	5.4	-1.7
4	☐	10.000	9.854	6060.27	0.0120	P	1.6	-1.5
5	☐	100.000	100.875	61180.07	0.1201	P	2.0	0.9
6	☐	200.000	199.570	119665.51	0.2374	P	1.3	-0.2

$$y = 0.0012 * x + 2.6946E-004$$

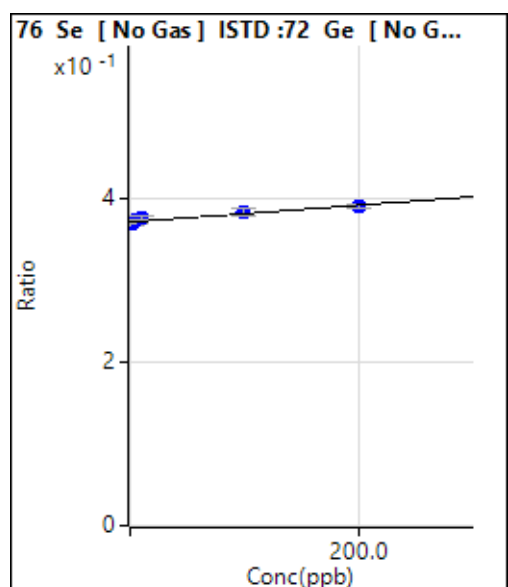
$$R = 1.0000$$

$$DL = 0.09919 \text{ ppb}$$

$$BEC = 0.2268 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	498864.16	0.3703	P	1.3	
2	☐	2.000	-9.219	499244.45	0.3693	P	1.6	-561.0
3	☐	5.000	31.939	497523.63	0.3736	P	2.4	538.8
4	☐	10.000	56.911	499087.15	0.3762	P	1.4	469.1
5	☐	100.000	122.857	506626.49	0.3830	P	2.4	22.9
6	☐	200.000	185.665	511875.65	0.3895	P	0.7	-7.2

$$y = 1.0343E-004 * x + 0.3703$$

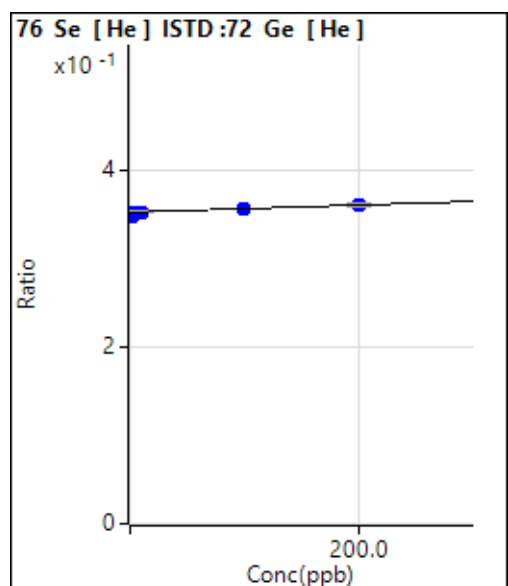
$$R = 0.9554$$

DL = 140.6 ppb

BEC = 3580 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176999.69	0.3518	P	0.9	
2	☐	2.000	-91.861	177905.39	0.3480	P	0.4	-4693.0
3	☐	5.000	11.284	178584.32	0.3523	P	0.8	125.7
4	☐	10.000	0.566	178033.06	0.3518	P	0.6	-94.3
5	☐	100.000	102.971	181368.92	0.3561	P	0.4	3.0
6	☐	200.000	199.768	181524.07	0.3601	P	1.6	-0.1

$$y = 4.1506E-005 * x + 0.3518$$

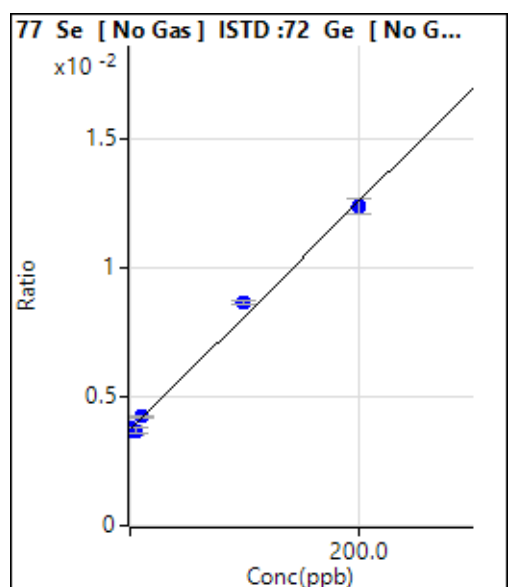
$$R = 0.9315$$

DL = 217.1 ppb

BEC = 8476 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5147.74	0.0038	P	1.6	
2	☐	2.000	-3.573	4951.00	0.0037	P	7.2	-278.6
3	☐	5.000	-2.784	4927.64	0.0037	P	5.5	-155.7
4	☐	10.000	9.381	5617.94	0.0042	P	2.2	-6.2
5	☐	100.000	110.616	11505.10	0.0087	P	1.6	10.6
6	☐	200.000	194.973	16310.12	0.0124	P	4.3	-2.5

$$y = 4.4070\text{E-}005 * x + 0.0038$$

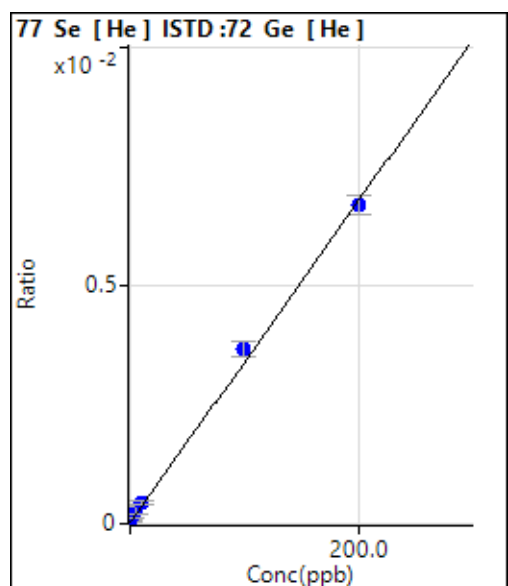
$$R = 0.9969$$

$$DL = 4.252 \text{ ppb}$$

$$BEC = 86.7 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0001	P	43.4	
2	☐	2.000	3.057	80.00	0.0002	P	32.9	52.8
3	☐	5.000	6.974	146.67	0.0003	P	51.1	39.5
4	☐	10.000	11.274	220.01	0.0004	P	15.9	12.7
5	☐	100.000	107.186	1873.50	0.0037	P	8.9	7.2
6	☐	200.000	196.284	3373.82	0.0067	P	6.2	-1.9

$$y = 3.3839\text{E-}005 * x + 5.3015\text{E-}005$$

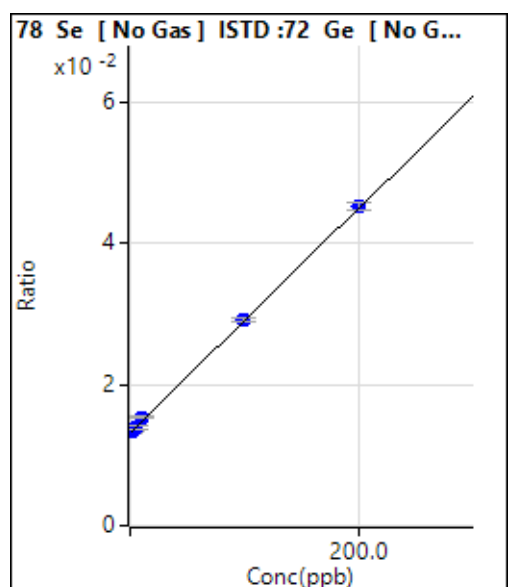
$$R = 0.9991$$

$$DL = 2.04 \text{ ppb}$$

$$BEC = 1.567 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18172.48	0.0135	P	4.2	
2	☐	2.000	-0.165	18202.56	0.0135	P	2.3	-108.3
3	☐	5.000	3.068	18613.17	0.0140	P	3.9	-38.6
4	☐	10.000	11.468	20315.63	0.0153	P	1.6	14.7
5	☐	100.000	99.087	38635.60	0.0292	P	2.2	-0.9
6	☐	200.000	200.453	59504.80	0.0453	P	1.9	0.2

$$y = 1.5857\text{E-}004 * x + 0.0135$$

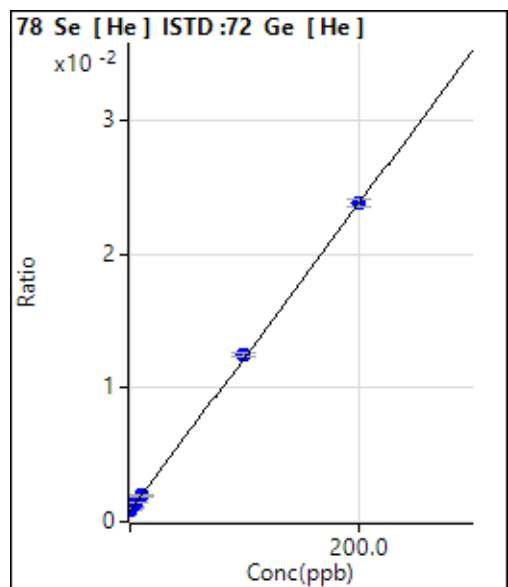
$$R = 0.9999$$

DL = 10.81 ppb

BEC = 85.09 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	463.34	0.0009	P	5.5	
2	☐	2.000	1.514	560.01	0.0011	P	4.1	-24.3
3	☐	5.000	4.677	740.02	0.0015	P	4.8	-6.5
4	☐	10.000	8.950	987.37	0.0020	P	2.7	-10.5
5	☐	100.000	101.199	6403.54	0.0126	P	2.2	1.2
6	☐	200.000	199.466	12038.06	0.0239	P	1.9	-0.3

$$y = 1.1511\text{E-}004 * x + 9.2116\text{E-}004$$

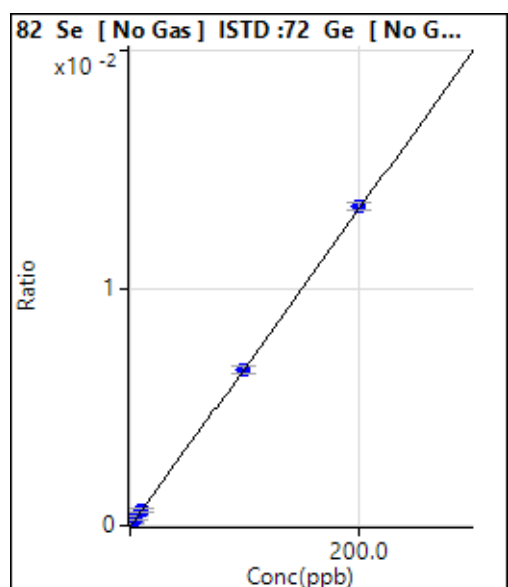
$$R = 1.0000$$

DL = 1.316 ppb

BEC = 8.003 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22.37	0.0000	P	654.	
2	☐	2.000	1.228	132.63	0.0001	P	73.7	-38.6
3	☐	5.000	4.840	449.38	0.0003	P	35.3	-3.2
4	☐	10.000	9.419	856.15	0.0006	P	21.1	-5.8
5	☐	100.000	98.007	8682.83	0.0066	P	3.9	-2.0
6	☐	200.000	201.037	17671.97	0.0134	P	2.5	0.5

$$y = 6.6815E-005 * x + 1.5742E-005$$

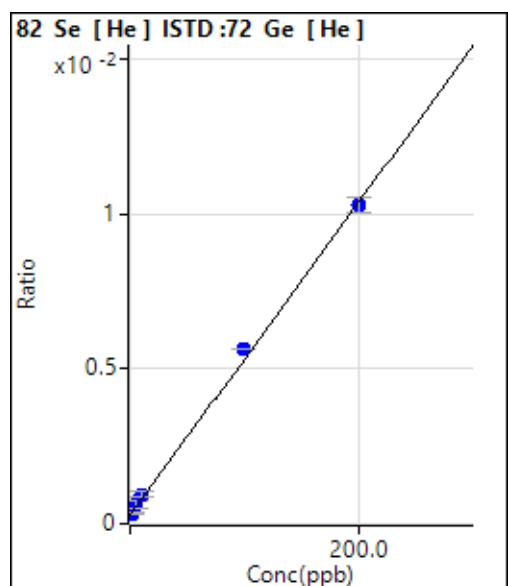
$$R = 0.9999$$

$$DL = 4.623 \text{ ppb}$$

$$BEC = 0.2356 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0003	P	21.6	
2	☐	2.000	0.155	173.33	0.0003	P	19.1	-92.3
3	☐	5.000	5.409	306.68	0.0006	P	37.8	8.2
4	☐	10.000	12.202	480.02	0.0009	P	16.5	22.0
5	☐	100.000	105.272	2880.36	0.0057	P	0.6	5.3
6	☐	200.000	197.262	5194.42	0.0103	P	4.4	-1.4

$$y = 5.0568E-005 * x + 3.3144E-004$$

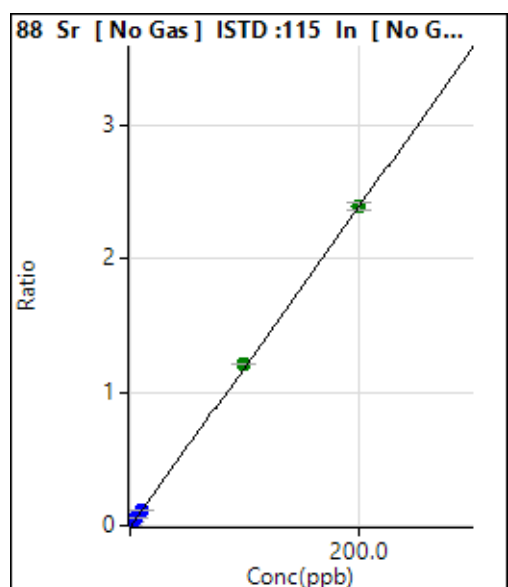
$$R = 0.9994$$

$$DL = 4.238 \text{ ppb}$$

$$BEC = 6.554 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0003	P	10.3	
2	☐	2.000	2.036	28287.01	0.0247	P	1.1	1.8
3	☐	5.000	4.799	66344.93	0.0579	P	1.1	-4.0
4	☐	10.000	9.708	132876.70	0.1168	P	0.6	-2.9
5	☐	100.000	100.958	1372928.36	1.2114	A	1.1	1.0
6	☐	200.000	199.540	2708755.17	2.3939	A	2.5	-0.2

$$y = 0.0120 * x + 3.2664E-004$$

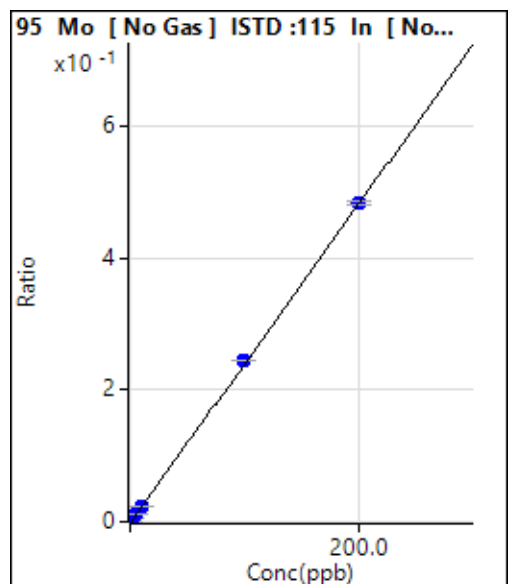
$$R = 1.0000$$

$$DL = 0.008434 \text{ ppb}$$

$$BEC = 0.02723 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0000	P	69.1	
2	☐	2.000	2.044	5697.99	0.0050	P	4.5	2.2
3	☐	5.000	4.763	13270.14	0.0116	P	3.0	-4.7
4	☐	10.000	9.852	27208.18	0.0239	P	1.3	-1.5
5	☐	100.000	100.585	276340.74	0.2438	P	0.1	0.6
6	☐	200.000	199.720	547849.20	0.4841	P	1.3	-0.1

$$y = 0.0024 * x + 3.2451E-005$$

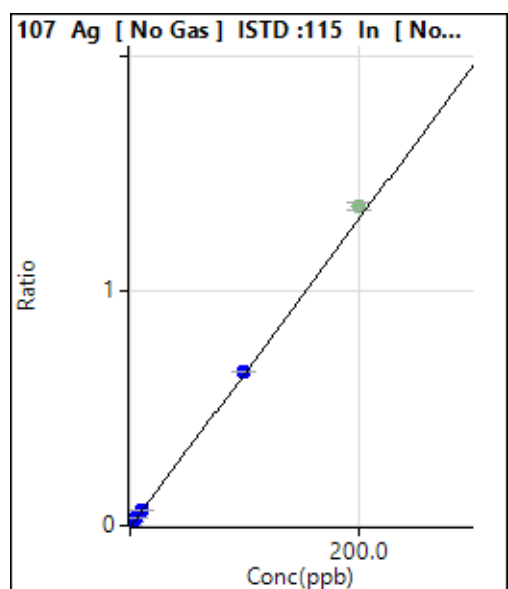
$$R = 1.0000$$

$$DL = 0.02775 \text{ ppb}$$

$$BEC = 0.01339 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	26.4	
2	☐	2.000	2.005	15235.74	0.0133	P	2.6	0.3
3	☐	5.000	4.899	36968.82	0.0323	P	2.3	-2.0
4	☐	10.000	9.775	73001.98	0.0642	P	1.0	-2.3
5	☐	100.000	100.027	741818.82	0.6546	P	0.4	0.0
6	☒	200.000		1537311.64	1.3584	A	2.3	

$$y = 0.0065 * x + 2.1210E-004$$

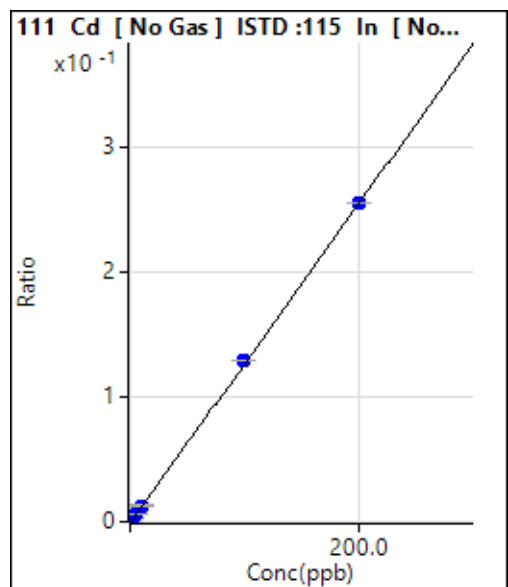
$$R = 1.0000$$

$$DL = 0.02569 \text{ ppb}$$

$$BEC = 0.03242 \text{ ppb}$$

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	☐	2.000	2.041	2993.73	0.0026	P	4.3	2.1
3	☐	5.000	4.872	7158.75	0.0062	P	1.9	-2.6
4	☐	10.000	10.088	14715.10	0.0129	P	3.6	0.9
5	☐	100.000	100.972	146656.78	0.1294	P	0.4	1.0
6	☐	200.000	199.513	289375.89	0.2557	P	0.6	-0.2

$$y = 0.0013 * x + 2.9290E-006$$

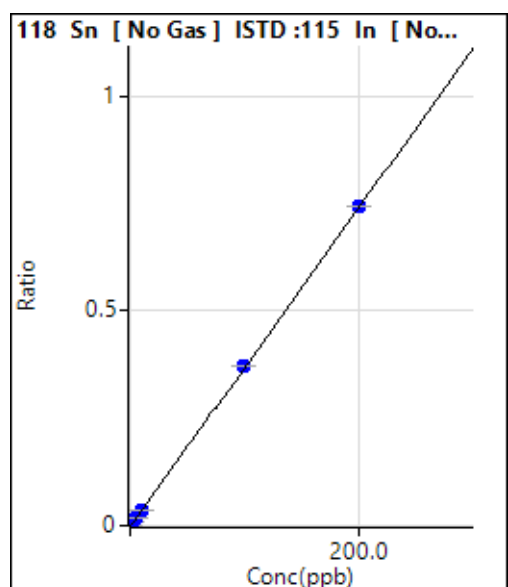
$$R = 1.0000$$

$$DL = 0.01188 \text{ ppb}$$

$$BEC = 0.002285 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.04	0.0007	P	8.2	
2	☐	2.000	1.978	9206.72	0.0081	P	5.0	-1.1
3	☐	5.000	4.823	21341.00	0.0186	P	1.7	-3.5
4	☐	10.000	9.829	42348.82	0.0372	P	2.6	-1.7
5	☐	100.000	99.911	421376.02	0.3718	P	0.7	-0.1
6	☐	200.000	200.058	841801.94	0.7438	P	0.5	0.0

$$y = 0.0037 * x + 7.0632E-004$$

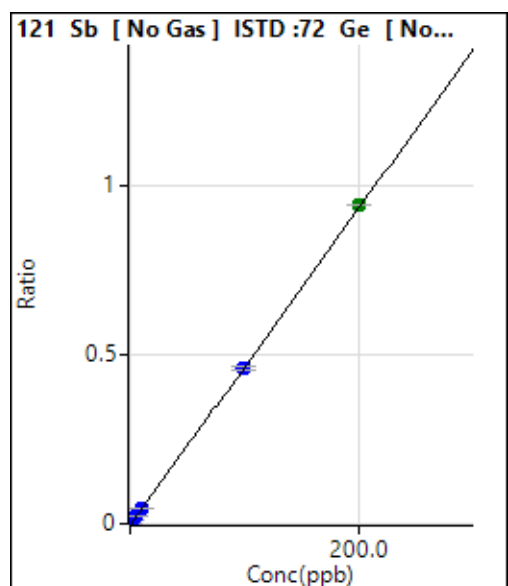
$$R = 1.0000$$

$$DL = 0.04704 \text{ ppb}$$

$$BEC = 0.1902 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0003	P	34.2	
2	☐	2.000	2.016	13116.82	0.0097	P	2.8	0.8
3	☐	5.000	4.779	30158.48	0.0226	P	2.4	-4.4
4	☐	10.000	9.573	59803.39	0.0451	P	4.0	-4.3
5	☐	100.000	97.737	605591.85	0.4578	P	2.5	-2.3
6	☐	200.000	201.158	1237981.78	0.9419	A	0.5	0.6

$$y = 0.0047 * x + 2.6754E-004$$

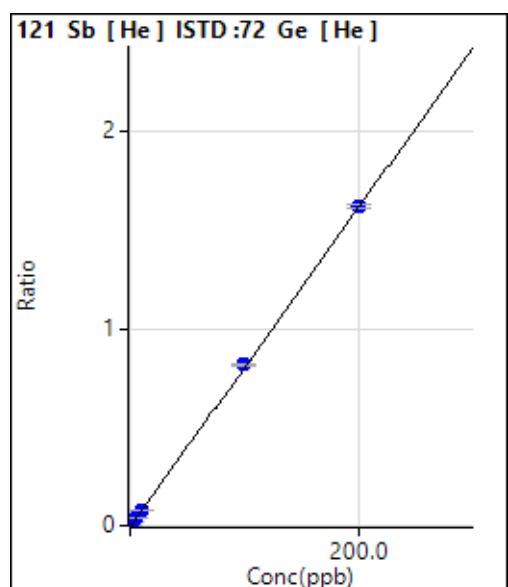
$$R = 0.9999$$

$$DL = 0.05863 \text{ ppb}$$

$$BEC = 0.05715 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.67	0.0004	P	13.1	
2	☐	2.000	1.988	8472.89	0.0166	P	3.1	-0.6
3	☐	5.000	4.958	20626.56	0.0407	P	3.0	-0.8
4	☐	10.000	10.051	41516.17	0.0821	P	2.2	0.5
5	☐	100.000	100.553	416132.53	0.8170	P	1.1	0.6
6	☐	200.000	199.722	817838.92	1.6223	P	1.1	-0.1

$$y = 0.0081 * x + 4.3025E-004$$

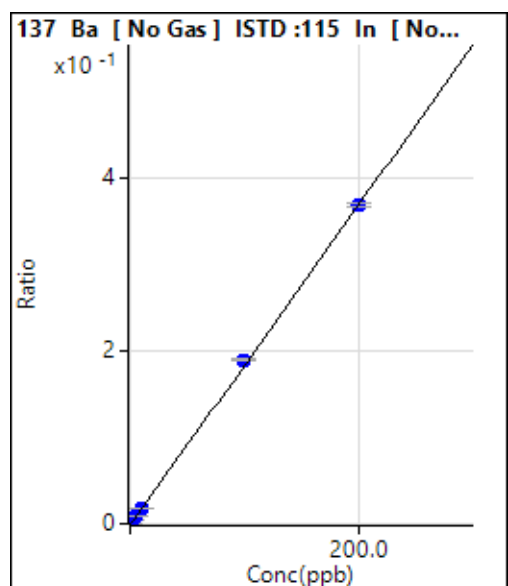
$$R = 1.0000$$

$$DL = 0.02075 \text{ ppb}$$

$$BEC = 0.05298 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.68	0.0002	P	17.4	
2	☐	2.000	2.073	4620.91	0.0040	P	1.8	3.7
3	☐	5.000	4.907	10654.58	0.0093	P	2.0	-1.9
4	☐	10.000	9.660	20603.38	0.0181	P	2.1	-3.4
5	☐	100.000	102.225	214940.52	0.1897	P	1.2	2.2
6	☐	200.000	198.906	417401.04	0.3689	P	1.5	-0.5

$$y = 0.0019 * x + 2.0033E-004$$

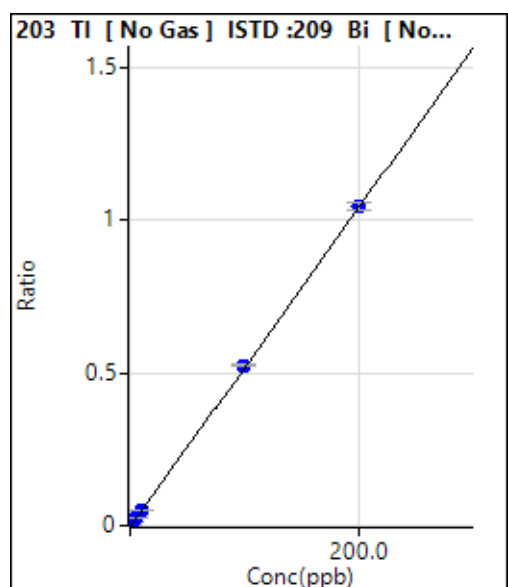
$$R = 0.9999$$

$$DL = 0.05652 \text{ ppb}$$

$$BEC = 0.1081 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	22.0	
2	☐	2.000	1.939	9430.41	0.0102	P	1.2	-3.1
3	☐	5.000	4.656	22694.36	0.0243	P	3.1	-6.9
4	☐	10.000	9.564	46413.41	0.0500	P	0.6	-4.4
5	☐	100.000	100.314	483680.19	0.5240	P	1.4	0.3
6	☐	200.000	199.874	954064.60	1.0440	P	2.7	-0.1

$$y = 0.0052 * x + 2.8904E-005$$

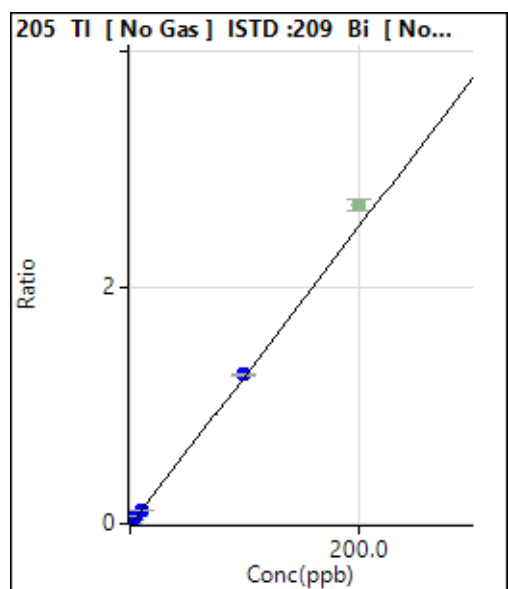
$$R = 1.0000$$

$$DL = 0.003649 \text{ ppb}$$

$$BEC = 0.005534 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	65.7	
2	☐	2.000	1.984	23285.39	0.0251	P	0.8	-0.8
3	☐	5.000	4.621	54385.89	0.0583	P	1.1	-7.6
4	☐	10.000	9.516	111524.03	0.1201	P	0.3	-4.8
5	☐	100.000	100.068	1165429.62	1.2626	P	0.9	0.1
6	☒	200.000		2464196.48	2.6967	A	3.2	

$$y = 0.0126 * x + 4.3260E-005$$

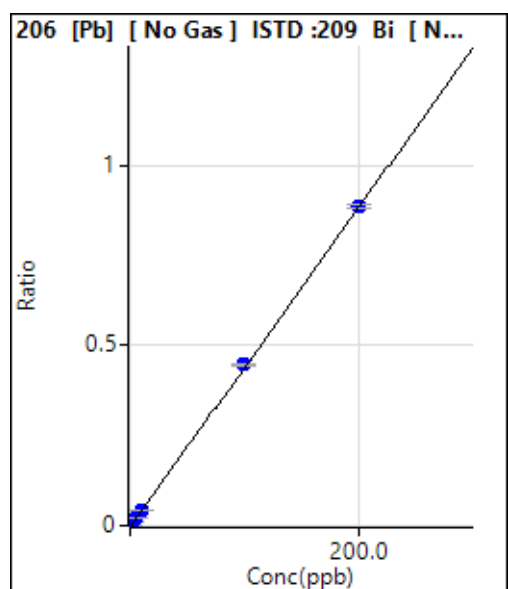
$$R = 1.0000$$

$$DL = 0.006762 \text{ ppb}$$

$$BEC = 0.003429 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	120.00	0.0001	P	25.1	
2	☐	2.000	2.053	8576.47	0.0092	P	3.1	2.6
3	☐	5.000	4.956	20617.43	0.0221	P	2.3	-0.9
4	☐	10.000	9.857	40723.72	0.0439	P	0.6	-1.4
5	☐	100.000	100.501	411637.27	0.4460	P	1.2	0.5
6	☐	200.000	199.757	809994.21	0.8863	P	1.5	-0.1

$$y = 0.0044 * x + 1.3000E-004$$

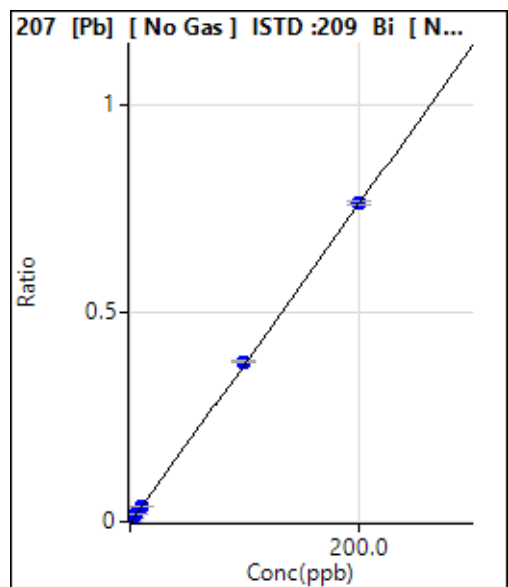
$$R = 1.0000$$

DL = 0.02203 ppb

BEC = 0.0293 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	9.7	
2	☐	2.000	1.945	7005.43	0.0075	P	3.5	-2.8
3	☐	5.000	4.915	17619.34	0.0189	P	2.9	-1.7
4	☐	10.000	9.654	34384.77	0.0370	P	2.8	-3.5
5	☐	100.000	100.203	353810.04	0.3833	P	0.8	0.2
6	☐	200.000	199.918	698869.83	0.7646	P	1.6	0.0

$$y = 0.0038 * x + 1.0831E-004$$

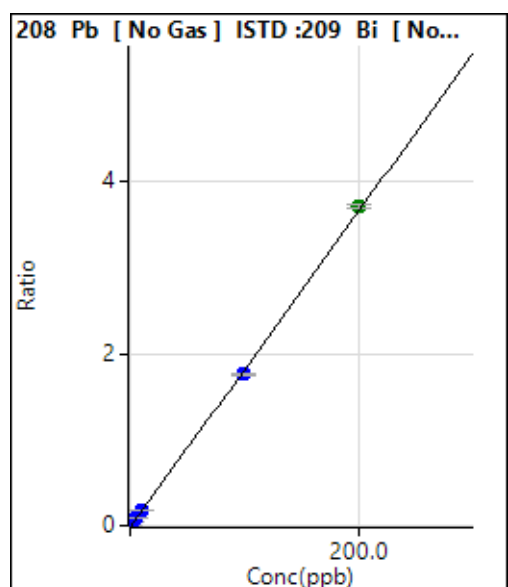
$$R = 1.0000$$

DL = 0.008206 ppb

BEC = 0.02832 ppb

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	400.01	0.0004	P	13.1	
2	☐	2.000	1.961	33889.02	0.0365	P	1.2	-1.9
3	☐	5.000	4.707	81081.23	0.0870	P	1.0	-5.9
4	☐	10.000	9.258	158498.38	0.1707	P	1.4	-7.4
5	☐	100.000	95.848	1627348.73	1.7630	P	1.0	-4.2
6	☐	200.000	202.121	3397506.36	3.7173	A	0.7	1.1

$$y = 0.0184 * x + 4.3328E-004$$

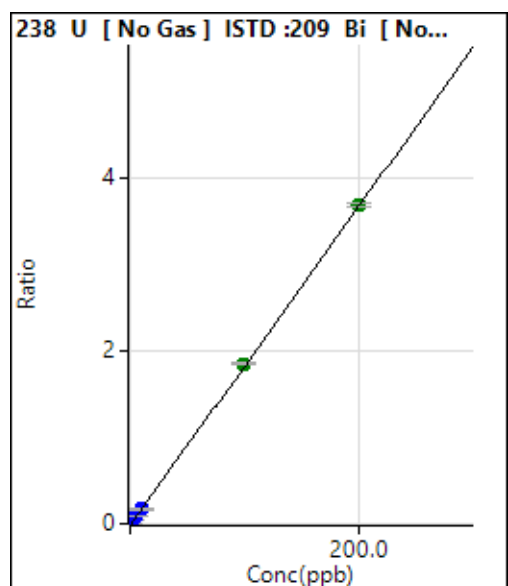
$$R = 0.9997$$

$$DL = 0.009281 \text{ ppb}$$

$$BEC = 0.02356 \text{ ppb}$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.5	
2	☐	2.000	1.884	32343.29	0.0348	P	2.5	-5.8
3	☐	5.000	4.430	76328.56	0.0819	P	0.1	-11.4
4	☐	10.000	9.070	155682.21	0.1677	P	1.6	-9.3
5	☐	100.000	100.115	1707878.20	1.8503	A	1.3	0.1
6	☐	200.000	200.005	3378897.66	3.6965	A	1.4	0.0

$$y = 0.0185 * x + 1.8071E-005$$

$$R = 1.0000$$

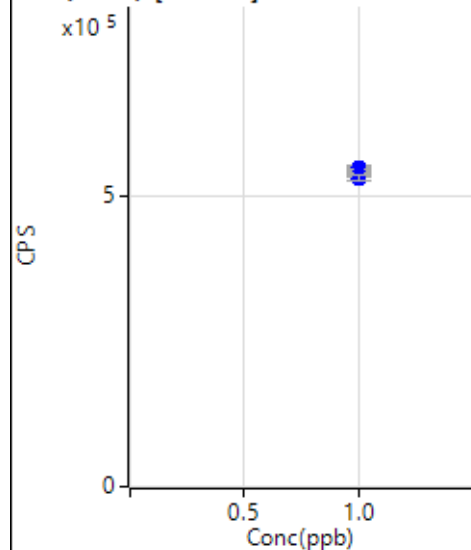
$$DL = 0.002038 \text{ ppb}$$

$$BEC = 0.0009778 \text{ ppb}$$

Weight: <None>

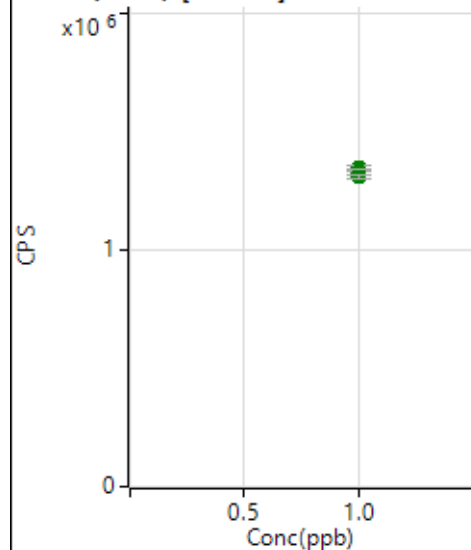
Min Conc: <None>

6 Li (ISTD) [No Gas]



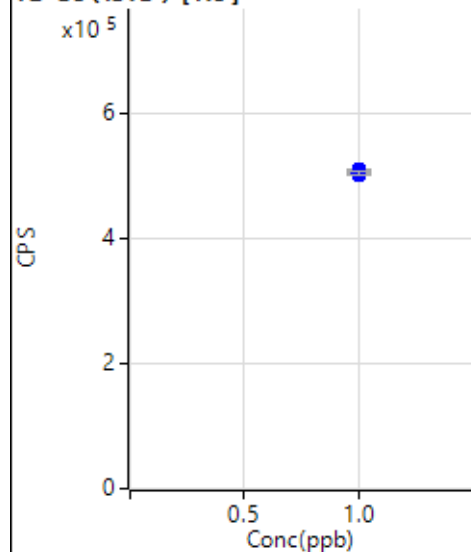
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		547647.74		P	0.7	
2	☐	1.000		550899.29		P	0.3	
3	☐	1.000		550867.94		P	0.7	
4	☐	1.000		547989.96		P	0.4	
5	☐	1.000		536527.93		P	1.2	
6	☐	1.000		532389.48		P	1.8	

72 Ge (ISTD) [No Gas]



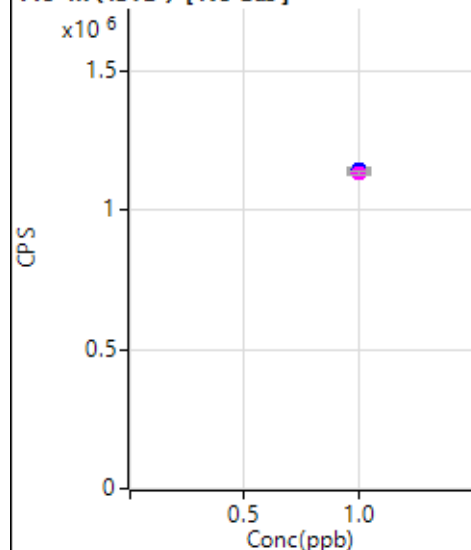
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1347492.79		A	1.8	
2	☐	1.000		1351994.51		A	1.6	
3	☐	1.000		1332261.70		A	2.3	
4	☐	1.000		1326901.80		A	0.9	
5	☐	1.000		1323377.77		A	2.5	
6	☐	1.000		1314337.95		A	1.2	

72 Ge (ISTD) [He]

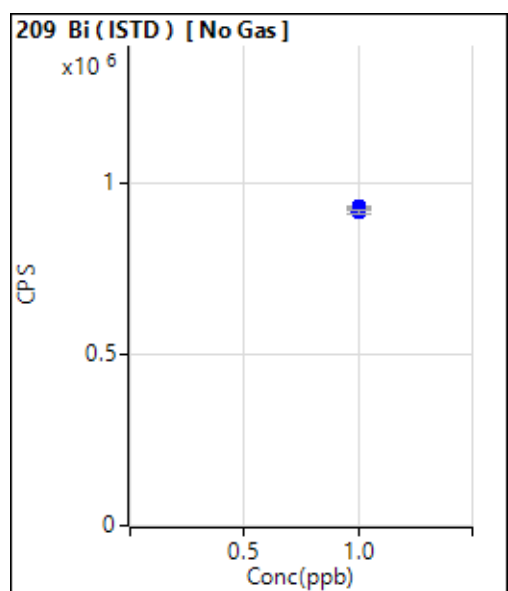


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		503154.39		P	1.0	
2	☐	1.000		511246.20		P	0.5	
3	☐	1.000		506967.77		P	0.7	
4	☐	1.000		506035.35		P	0.9	
5	☐	1.000		509385.16		P	1.3	
6	☐	1.000		504153.28		P	1.1	

115 In (ISTD) [No Gas]



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1132392.01		P	0.7	
2	☐	1.000		1142937.34		P	0.4	
3	☐	1.000		1146084.05		P	1.2	
4	☐	1.000		1137911.71		P	0.5	
5	☐	1.000		1133308.89		P	0.9	
6	☐	1.000		1131770.30		M	1.6	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		923104.13		P	0.4	
2	☐	1.000		928558.29		P	0.5	
3	☐	1.000		932153.21		P	0.6	
4	☐	1.000		928591.13		P	0.5	
5	☐	1.000		923040.17		P	0.4	
6	☐	1.000		914027.98		P	1.2	

Sample Report

Sample Table

Sample Name LLICV2
 Data File Name 020LCV2.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:23:15-06:00
 Sample Type LLCCV2
 Dilution 1
 Comment
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.091	2.091	7.17	46746	0.00	2	
Be	9	1	No Gas	2.166	2.166	3.98	3951	0.05	2	
V	51	2	He	1.688	1.688	6.69	8301	0.02	2	
Cr	52	2	He	2.112	2.112	5.82	10247	0.02	2	
Fe	56	2	He	222.331	222.331	0.28	795120	0.03	200	
Se	78	2	He	1.625	1.625	6.49	572	0.28	2	
As	75	2	He	1.924	1.924	4.93	1319	0.15	2	
Ca	44	2	He	218.071	218.071	7.66	6525	3.34	200	
Na	23	2	He	209.185	209.185	1.37	235296	0.09	200	
Mg	24	2	He	217.892	217.892	1.20	83872	0.26	200	
K	39	2	He	217.678	217.678	3.10	220160	0.10	200	
Mn	55	2	He	2.154	2.154	5.99	6895	0.03	2	
Co	59	2	He	2.115	2.115	0.46	11789	0.02	2	
Ni	60	2	He	2.047	2.047	6.55	3020	0.07	2	
Cu	63	2	He	2.192	2.192	2.67	9941	0.02	2	
Zn	66	2	He	3.076	3.076	7.26	3204	0.10	2	NewName Main CR1 Failed
Al	27	2	He	2.416	2.416	10.02	1303	0.19	2	
B	11	1	No Gas	39.413	39.413	9.02	38150	0.10	10	NewName Main CR1 Failed
Al	27	1	No Gas	2.483	2.483	4.74	35549	0.01	2	
Si	28	1	No Gas	16.125	16.125	1.28	301486	0.01	10	NewName Main CR1 Failed
Ag	107	1	No Gas	2.062	2.062	0.66	15756	0.01	2	
Cd	111	1	No Gas	2.031	2.031	7.30	2997	0.07	2	
Sr	88	1	No Gas	2.072	2.072	0.44	28945	0.01	2	
Mo	95	1	No Gas	2.024	2.024	2.08	5678	0.04	2	
Sn	118	1	No Gas	2.149	2.149	1.13	9991	0.02	2	
Sb	121	1	No Gas	1.969	1.969	4.38	12663	0.02	2	
Ba	137	1	No Gas	2.040	2.040	3.70	4578	0.04	2	
Tl	205	1	No Gas	2.043	2.043	2.68	24060	0.01	2	
Tl	203	1	No Gas	1.997	1.997	5.58	9744	0.02	2	
Pb	208	1	No Gas	1.995	1.995	3.04	34583	0.01	2	
U	238	1	No Gas	1.894	1.894	0.96	32634	0.01	2	
Ca	43	2	He	202.417	202.417	16.35	363	55.71	200	
Sb	121	2	He	2.137	2.137	4.78	9180	0.02	2	
Ti	47	2	He	2.105	2.105	0.54	300	0.70	200	
Cu	63	1	No Gas	2.162	2.162	4.12	15876	0.01	2	
Se	82	1	No Gas	1.109	1.109	174.68	120	0.93	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	551694	0.18	547648	100.74	70	120	
Ge	72	2	He	516161	0.52	503154	102.59	70	120	
Ge	72	1	No Gas	1335373	0.39	1347493	99.10	70	120	
In	115	1	No Gas	1149713	1.07	1132392	101.53	70	120	
Bi	209	1	No Gas	931871	0.60	923104	100.95	70	120	

Sample Report

Sample Table

Sample Name LLICV5
 Data File Name 021LCV5.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:25:09-06:00
 Sample Type LLCCV5
 Dilution 1
 Comment
 ISTD Ref FileName 011CALB.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	4.873	4.873	2.50	66688	0.01	5	
Be	9	1	No Gas	4.801	4.801	2.05	8674	0.06	5	
V	51	2	He	4.483	4.483	1.09	17829	0.03	5	
Cr	52	2	He	4.922	4.922	6.13	20983	0.02	5	
Fe	56	2	He	524.389	524.389	1.26	1834071	0.03	500	
Se	78	2	He	4.439	4.439	22.62	735	0.60	5	
As	75	2	He	4.919	4.919	0.90	3140	0.16	5	
Ca	44	2	He	491.097	491.097	4.62	13333	3.68	500	
Na	23	2	He	516.599	516.599	1.10	426677	0.12	500	
Mg	24	2	He	512.620	512.620	1.13	195903	0.26	500	
K	39	2	He	514.664	514.664	2.75	360016	0.14	500	
Mn	55	2	He	4.993	4.993	0.58	15386	0.03	5	
Co	59	2	He	4.983	4.983	2.05	27552	0.02	5	
Ni	60	2	He	5.083	5.083	2.55	7319	0.07	5	
Cu	63	2	He	4.975	4.975	3.42	20462	0.02	5	
Zn	66	2	He	5.382	5.382	3.43	5001	0.11	5	
Al	27	2	He	5.237	5.237	9.21	1980	0.26	5	
B	11	1	No Gas	37.751	37.751	1.39	36454	0.10	25	NewName2 Main CR1 Failed
Al	27	1	No Gas	5.383	5.383	2.04	55374	0.01	5	
Si	28	1	No Gas	25.809	25.809	3.45	333064	0.01	25	
Ag	107	1	No Gas	4.851	4.851	2.17	36611	0.01	5	
Cd	111	1	No Gas	5.036	5.036	5.67	7402	0.07	5	
Sr	88	1	No Gas	4.836	4.836	1.71	66857	0.01	5	
Mo	95	1	No Gas	4.719	4.719	2.35	13147	0.04	5	
Sn	118	1	No Gas	4.989	4.989	2.55	22046	0.02	5	
Sb	121	1	No Gas	4.644	4.644	0.85	29480	0.02	5	
Ba	137	1	No Gas	4.857	4.857	5.31	10544	0.05	5	
Tl	205	1	No Gas	4.569	4.569	1.85	53927	0.01	5	
Tl	203	1	No Gas	4.614	4.614	2.10	22554	0.02	5	
Pb	208	1	No Gas	4.646	4.646	1.59	80257	0.01	5	
U	238	1	No Gas	4.465	4.465	1.01	77151	0.01	5	
Ca	43	2	He	442.441	442.441	16.29	713	62.02	500	
Sb	121	2	He	4.890	4.890	0.49	20620	0.02	5	
Ti	47	2	He	5.399	5.399	3.38	750	0.72	5	
Cu	63	1	No Gas	4.833	4.833	1.40	32382	0.01	5	
Se	82	1	No Gas	3.826	3.826	73.19	363	1.05	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	547083	0.09	547648	99.90	70	120	
Ge	72	2	He	513642	0.67	503154	102.08	70	120	
Ge	72	1	No Gas	1339614	1.04	1347493	99.42	70	120	
In	115	1	No Gas	1146199	1.16	1132392	101.22	70	120	
Bi	209	1	No Gas	934751	0.39	923104	101.26	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name ICB
 Data File Name 022_ICB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:27:03-06:00
 Sample Type ICB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.063	71.8	30351	1.6	0.5	
Be	9	1	No Gas	0.002	157.7	12	49.5	0.5	
V	51	2	He	-0.073	-35.9	2168	4.2	2.5	
Cr	52	2	He	0.028	98.6	2137	6.0	2.5	
Fe	56	2	He	0.509	16.1	24699	2.3	100	
Se	78	2	He	-0.437	-52.3	435	2.4	1	
As	75	2	He	0.112	32.4	201	11.0	2.5	
Ca	44	2	He	-11.306	-9.4	727	2.9	100	
Na	23	2	He	-25.982	-12.8	84401	1.5	100	
Mg	24	2	He	0.662	50.3	570	22.4	100	
K	39	2	He	1.573	127.7	113256	0.4	100	
Mn	55	2	He	0.155	27.3	837	15.6	2.5	
Co	59	2	He	0.006	35.8	93	12.4	2.5	
Ni	60	2	He	0.025	154.5	130	40.0	2.5	
Cu	63	2	He	0.164	34.1	2127	10.8	1	
Zn	66	2	He	0.457	10.1	1097	4.3	2.5	
Al	27	2	He	-0.244	-141.9	633	12.0	5	
B	11	1	No Gas	13.501	2.2	15724	1.8	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-0.183	-45.1	17004	4.1	5	
Si	28	1	No Gas	1.201	172.9	247326	0.6	10	
Ag	107	1	No Gas	0.011	37.9	317	9.6	2.5	
Cd	111	1	No Gas	0.002	341.9	7	173.2	1	
Sr	88	1	No Gas	0.002	127.2	393	9.6	2.5	
Mo	95	1	No Gas	0.008	76.3	57	27.0	2.5	
Sn	118	1	No Gas	0.598	10.9	3274	7.6	5	
Sb	121	1	No Gas	0.069	11.0	767	6.7	2.5	
Ba	137	1	No Gas	0.003	770.8	230	19.9	2.5	
Tl	205	1	No Gas	0.023	49.0	303	43.0	1	
Tl	203	1	No Gas	0.019	69.8	117	54.4	1	
Pb	208	1	No Gas	0.015	41.8	643	15.6	2.5	
U	238	1	No Gas	0.001	90.0	33	45.8	2.5	
Ca	43	2	He	-30.193	-23.6	20	50.0	100	
Sb	121	2	He	0.042	47.8	387	22.0	2.5	
Ti	47	2	He	-0.024	-178.8	7	86.6	2.5	
Se	82	1	No Gas	0.132	408.5	32	147.4	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	526571	0.53	547648	96.15	70	120	
Ge	72	2	He	499201	1.19	503154	99.21	70	120	
Ge	72	1	No Gas	1298613	2.09	1347493	96.37	70	120	
In	115	1	No Gas	1118571	0.67	1132392	98.78	70	120	
Bi	209	1	No Gas	912454	0.61	923104	98.85	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name ICSA
 Data File Name 024ICSA.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:30:52-06:00
 Sample Type ICSA
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.149	38.7	31500	2.0	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.009	87.7	25	60.0	0	ICSA Main CR1 Failed
V	51	2	He	-0.339	-5.9	1351	5.5	0	ICSA Main CR1 Failed
Cr	52	2	He	0.723	12.0	4981	7.0	0	ICSA Main CR1 Failed
Fe	56	2	He	95958.445	1.3	339206028	1.5	0	
Se	78	2	He	-0.557	-47.4	451	3.6	0	ICSA Main CR1 Failed
As	75	2	He	0.275	21.8	313	12.1	0	ICSA Main CR1 Failed
Ca	44	2	He	93468.945	1.7	2398372	1.5	0	
Na	23	2	He	96861.415	0.7	62216176	0.9	0	
Mg	24	2	He	96300.084	0.6	37615270	0.4	0	
K	39	2	He	96412.366	1.4	46961949	1.6	0	
Mn	55	2	He	1.448	0.6	4854	0.3	0	ICSA Main CR1 Failed
Co	59	2	He	0.843	5.7	4828	5.4	0	ICSA Main CR1 Failed
Ni	60	2	He	1.123	4.3	1733	4.2	0	ICSA Main CR1 Failed
Cu	63	2	He	0.615	9.6	3991	5.5	0	ICSA Main CR1 Failed
Zn	66	2	He	1.941	3.7	2350	2.6	0	ICSA Main CR1 Failed
Al	27	2	He	88316.078	0.3	21918385	0.3	0	
B	11	1	No Gas	13.448	7.3	15953	4.1	0	
Al	27	1	No Gas	89856.581	0.7	627270724	1.1	0	
Si	28	1	No Gas	41.079	9.5	391798	4.7	0	
Ag	107	1	No Gas	0.034	43.0	497	21.5	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.740	4.8	1083	3.7	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	1.188	2.7	16614	3.6	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1929.567	0.4	5331264	1.4	0	
Sn	118	1	No Gas	0.231	14.6	1783	8.4	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.166	4.6	1433	2.0	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	1.168	5.0	2697	5.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.009	64.9	137	47.0	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.011	11.4	77	7.5	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.742	4.7	12743	4.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.007	12.4	133	11.5	0	ICSA Main CR1 Failed
Ca	43	2	He	93320.397	1.3	140078	1.1	0	
Sb	121	2	He	0.155	22.1	890	16.6	0	ICSA Main CR1 Failed
Ti	47	2	He	1981.760	0.4	278030	0.5	0	
Se	82	1	No Gas	-0.300	-521.8	-8	-1875.8	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	535860	1.15	547648	97.85	70	120	
Ge	72	2	He	525863	0.24	503154	104.51	70	120	
Ge	72	1	No Gas	1375755	1.78	1347493	102.10	70	120	
In	115	1	No Gas	1139865	1.06	1132392	100.66	70	120	
Bi	209	1	No Gas	904583	0.80	923104	97.99	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name ICSAB
 Data File Name 025ICSB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:32:47-06:00
 Sample Type ICSB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	96.140	0.398	696077	1.17	100	96.1	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	93.720	1.119	160461	0.34	100	93.7	80	120	
V	51	2	He	94.276	0.841	334262	0.47	100	94.3	80	120	
Cr	52	2	He	93.625	1.904	371369	1.52	100	93.6	80	120	
Fe	56	2	He	104625.247	0.683	371225781	0.47	100	104625.2	80	120	
Se	78	2	He	92.467	2.003	6105	2.22	100	92.5	80	120	
As	75	2	He	96.805	1.279	60851	0.90	100	96.8	80	120	
Ca	44	2	He	101485.057	0.703	2613847	0.60	100	101485.1	80	120	
Na	23	2	He	105355.559	0.797	67917307	0.77	100	105355.6	80	120	
Mg	24	2	He	104650.380	0.984	41030674	0.62	100	104650.4	80	120	
K	39	2	He	105271.528	0.330	51459081	0.53	100	105271.5	80	120	
Mn	55	2	He	95.358	0.339	294626	0.10	100	95.4	80	120	
Co	59	2	He	94.303	0.445	534708	0.13	100	94.3	80	120	
Ni	60	2	He	91.043	1.907	132967	1.53	100	91.0	80	120	
Cu	63	2	He	91.064	0.792	357150	0.61	100	91.1	80	120	
Zn	66	2	He	94.258	1.370	76985	1.55	100	94.3	80	120	
Al	27	2	He	88035.961	0.269	21931380	0.40	100	88036.0	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	539.736	1.287	429635	1.94	100	539.7	80	120	
Al	27	1	No Gas	89746.426	1.501	616302524	0.95	100	89746.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	499.720	1.394	1851179	1.04	100	499.7	80	120	
Ag	107	1	No Gas	93.354	1.529	689922	0.18	100	93.4	80	120	
Cd	111	1	No Gas	96.513	0.967	139699	0.74	100	96.5	80	120	
Sr	88	1	No Gas	101.262	2.458	1372020	1.04	100	101.3	80	120	
Mo	95	1	No Gas	2044.640	1.624	5596731	0.14	100	2044.6	80	120	
Sn	118	1	No Gas	98.568	0.811	414308	1.01	100	98.6	80	120	
Sb	121	1	No Gas	93.131	0.789	590395	1.41	100	93.1	80	120	
Ba	137	1	No Gas	100.677	1.108	210991	2.00	100	100.7	80	120	
Tl	205	1	No Gas	91.614	0.664	1044665	0.17	100	91.6	80	120	
Tl	203	1	No Gas	91.761	0.805	433183	0.52	100	91.8	80	120	
Pb	208	1	No Gas	93.609	0.543	1556093	0.38	100	93.6	80	120	
U	238	1	No Gas	100.954	1.810	1686289	2.05	100	101.0	80	120	
Ca	43	2	He	103688.279	1.324	156220	1.02	100	103688.3	80	120	
Sb	121	2	He	93.946	0.267	402935	0.48	100	93.9	80	120	
Ti	47	2	He	2073.407	0.494	291989	0.86	100	2073.4	80	120	
Cu	63	1	No Gas	89.976	1.830	562581	1.20	100	90.0	80	120	
Se	82	1	No Gas	91.465	5.124	8289	4.10	100	91.5	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	518979	1.46	547648	94.77	70	120	
Ge	72	2	He	527849	0.38	503154	104.91	70	120	
Ge	72	1	No Gas	1353442	1.73	1347493	100.44	70	120	
In	115	1	No Gas	1129513	1.69	1132392	99.75	70	120	
Bi	209	1	No Gas	903766	0.72	923104	97.91	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 029_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:41:54-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.036	47.1	29286	0.4	0.5	
Be	9	1	No Gas	0.008	83.1	22	53.3	0.5	
V	51	2	He	-0.209	-12.0	1705	5.1	2.5	
Cr	52	2	He	0.250	6.0	2940	1.8	2.5	
Fe	56	2	He	1.983	9.1	29429	1.4	100	
Se	78	2	He	-0.220	-214.5	444	6.2	2	
As	75	2	He	0.062	97.4	170	20.4	2.5	
Ca	44	2	He	-5.991	-30.1	850	5.1	100	
Na	23	2	He	5.212	10.3	102655	0.3	100	
Mg	24	2	He	0.810	1.3	620	0.0	100	
K	39	2	He	3.406	34.3	113282	0.3	100	
Mn	55	2	He	0.202	11.0	967	7.0	2.5	
Co	59	2	He	0.004	29.6	83	6.9	2.5	
Ni	60	2	He	0.106	42.8	240	25.3	2.5	
Cu	63	2	He	0.257	2.0	2450	1.1	2	
Zn	66	2	He	0.108	152.2	823	14.8	2.5	
Al	27	2	He	0.401	129.7	780	15.6	5	
B	11	1	No Gas	27.355	14.8	26006	12.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.540	31.4	21744	4.3	5	
Si	28	1	No Gas	-0.711	-234.4	241261	0.7	10	
Ag	107	1	No Gas	0.010	71.8	307	16.1	2.5	
Cd	111	1	No Gas	0.005	148.4	10	100.0	1	
Sr	88	1	No Gas	0.009	49.8	490	12.4	2.5	
Mo	95	1	No Gas	0.082	25.5	257	21.5	2.5	
Sn	118	1	No Gas	0.560	2.4	3107	1.7	5	
Sb	121	1	No Gas	0.206	32.3	1593	24.5	2.5	
Ba	137	1	No Gas	-0.050	-35.1	120	30.0	2.5	
Tl	205	1	No Gas	0.062	32.6	760	31.6	1	
Tl	203	1	No Gas	0.058	32.8	303	30.6	1	
Pb	208	1	No Gas	0.028	25.1	877	14.4	2.5	
U	238	1	No Gas	0.006	74.9	117	64.3	2.5	
Ca	43	2	He	-18.319	-45.5	37	31.5	100	
Sb	121	2	He	0.167	4.2	887	2.6	2.5	
Ti	47	2	He	0.027	161.0	13	43.3	2.5	
Cu	63	1	No Gas	0.186	29.2	3637	10.1	2.5	
Se	82	1	No Gas	-0.008	-21906.6	19	756.4	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	511278	0.11	547648	93.36	70	120	
Ge	72	2	He	495593	0.62	503154	98.50	70	120	
Ge	72	1	No Gas	1297318	1.41	1347493	96.28	70	120	
In	115	1	No Gas	1114826	0.49	1132392	98.45	70	120	
Bi	209	1	No Gas	916032	0.65	923104	99.23	70	120	



Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 030_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:43:48-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.729	3.082	749810	3.34	100	99.7	90	110	
Be	9	1	No Gas	99.601	1.024	177366	1.77	100	99.6	90	110	
V	51	2	He	98.850	0.644	349305	0.27	100	98.9	90	110	
Cr	52	2	He	99.334	0.964	392711	0.63	100	99.3	90	110	
Fe	56	2	He	9932.296	0.932	35156592	0.36	10000	99.3	90	110	
Se	78	2	He	98.599	1.402	6458	1.35	100	98.6	90	110	
As	75	2	He	100.761	0.206	63143	0.55	100	100.8	90	110	
Ca	44	2	He	9874.683	0.654	254530	1.18	10000	98.7	90	110	
Na	23	2	He	9926.038	0.329	6475268	0.26	10000	99.3	90	110	
Mg	24	2	He	9994.372	0.799	3907073	0.46	10000	99.9	90	110	
K	39	2	He	9834.304	1.078	4900546	1.63	10000	98.3	90	110	
Mn	55	2	He	100.215	1.135	308679	1.00	100	100.2	90	110	
Co	59	2	He	101.905	0.358	576069	0.36	100	101.9	90	110	
Ni	60	2	He	101.083	1.295	147177	0.85	100	101.1	90	110	
Cu	63	2	He	99.727	0.789	389799	0.87	100	99.7	90	110	
Zn	66	2	He	101.875	0.674	82893	1.18	100	101.9	90	110	
Al	27	2	He	101.611	3.269	25968	3.70	100	101.6	90	110	
B	11	1	No Gas	510.141	2.807	422598	3.28	500	102.0	90	110	
Al	27	1	No Gas	101.758	2.718	723061	0.47	100	101.8	90	110	
Si	28	1	No Gas	503.177	3.741	1875809	1.15	5000	101.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.387	0.522	752880	1.01	100	98.4	90	110	
Cd	111	1	No Gas	101.257	0.788	151748	0.73	100	101.3	90	110	
Sr	88	1	No Gas	100.754	0.316	1413661	0.98	100	100.8	90	110	
Mo	95	1	No Gas	98.825	0.271	280142	0.96	100	98.8	90	110	
Sn	118	1	No Gas	99.559	0.892	433244	0.63	100	99.6	90	110	
Sb	121	1	No Gas	96.554	2.015	616632	1.01	100	96.6	90	110	
Ba	137	1	No Gas	100.235	0.858	217490	1.82	100	100.2	90	110	
Tl	205	1	No Gas	100.599	0.636	1213102	0.79	100	100.6	90	110	
Tl	203	1	No Gas	100.799	0.640	503222	0.89	100	100.8	90	110	
Pb	208	1	No Gas	94.839	0.483	1667299	1.38	100	94.8	90	110	
U	238	1	No Gas	100.230	0.347	1770486	1.10	100	100.2	90	110	
Ca	43	2	He	9672.948	2.087	14591	2.53	10000	96.7	90	110	
Sb	121	2	He	99.551	0.883	425673	0.93	100	99.6	90	110	
Ti	47	2	He	101.047	1.092	14198	1.67	100	101.0	90	110	
Cu	63	1	No Gas	97.362	1.575	613202	1.55	100	97.4	90	110	
Se	82	1	No Gas	100.063	3.588	9136	2.72	100	100.1	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	539696	0.74	547648	98.55	70	120	
Ge	72	2	He	526264	0.57	503154	104.59	70	120	
Ge	72	1	No Gas	1363988	3.02	1347493	101.22	70	120	
In	115	1	No Gas	1169383	1.23	1132392	103.27	70	120	
Bi	209	1	No Gas	955747	0.93	923104	103.54	70	120	

Sample Report

Sample Table

Sample Name MBLK-188726
 Data File Name 031SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:45:46-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Pass
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.094	0.094	100.47	28895	0.00	2000	
Be	9	1	No Gas	0.007	0.007	135.23	18	0.04	2000	
V	51	2	He	-0.235	-0.235	-11.46	1653	-0.01	2000	
Cr	52	2	He	0.234	0.234	23.49	2950	0.01	2000	
Fe	56	2	He	2.509	2.509	10.79	31921	0.01	200000	
Se	78	2	He	-0.181	-0.181	-7.13	457	-0.04	2000	
As	75	2	He	0.052	0.052	42.87	168	0.03	2000	
Ca	44	2	He	4.835	4.835	111.38	1137	0.43	200000	
Na	23	2	He	6.370	6.370	37.15	105775	0.01	200000	
Mg	24	2	He	1.470	1.470	8.65	883	0.17	200000	
K	39	2	He	-0.892	-0.892	-490.92	113925	0.00	200000	
Mn	55	2	He	0.303	0.303	11.59	1287	0.02	2000	
Co	59	2	He	0.007	0.007	85.44	100	0.01	2000	
Ni	60	2	He	0.280	0.280	25.01	490	0.06	2000	
Cu	63	2	He	0.309	0.309	11.94	2704	0.01	2000	
Zn	66	2	He	1.142	1.142	5.04	1647	0.07	2000	
Al	27	2	He	1.349	1.349	35.29	1027	0.13	2000	
B	11	1	No Gas	29.251	29.251	13.50	26727	0.11	2000	
Al	27	1	No Gas	1.104	1.104	5.85	24509	0.00	2000	
Si	28	1	No Gas	0.866	0.866	120.72	236877	0.00	2000	
Ag	107	1	No Gas	0.012	0.012	49.37	317	0.00	2000	
Cd	111	1	No Gas	0.003	0.003	163.77	7	0.04	2000	
Sr	88	1	No Gas	0.017	0.017	37.49	570	0.00	2000	
Mo	95	1	No Gas	0.071	0.071	25.88	220	0.03	2000	
Sn	118	1	No Gas	0.597	0.597	11.78	3160	0.02	2000	
Sb	121	1	No Gas	0.132	0.132	29.26	1107	0.01	2000	
Ba	137	1	No Gas	-0.030	-0.030	-11.43	157	-0.02	2000	
Tl	205	1	No Gas	0.123	0.123	49.80	1410	0.01	2000	
Tl	203	1	No Gas	0.116	0.116	45.61	560	0.02	2000	
Pb	208	1	No Gas	0.039	0.039	9.32	1017	0.00	2000	
U	238	1	No Gas	0.006	0.006	46.16	107	0.01	2000	
Ca	43	2	He	1.680	1.680	816.78	67	2.52	200000	
Sb	121	2	He	0.124	0.124	21.34	730	0.02	2000	
Ti	47	2	He	0.098	0.098	40.69	23	0.42	2000	
Cu	63	1	No Gas	0.246	0.246	8.98	3844	0.01	2000	
Zn	66	1	No Gas	1.053	1.053	13.72	3194	0.03	2000	
Se	82	1	No Gas	-0.567	-0.567	-117.60	-27	2.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	497911	1.81	547648	90.92	70	120	
Ge	72	2	He	507263	1.64	503154	100.82	70	120	



Sample Report

Ge	72	1	No Gas	1248608	1.09	1347493	92.66	70	120	
In	115	1	No Gas	1082479	1.98	1132392	95.59	70	120	
Bi	209	1	No Gas	888289	1.44	923104	96.23	70	120	

Sample Report

Sample Table

Sample Name LCS-188726
 Data File Name 032SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:47:58-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Pass
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	99.028	99.028	5.24	775459	0.01	2000	
Be	9	1	No Gas	49.603	49.603	1.14	91991	0.05	2000	
V	51	2	He	47.847	47.847	1.68	175987	0.03	2000	
Cr	52	2	He	48.608	48.608	1.63	199616	0.02	2000	
Fe	56	2	He	4882.925	4882.925	0.48	17866484	0.03	200000	
Se	78	2	He	49.165	49.165	1.15	3577	1.37	2000	
As	75	2	He	49.725	49.725	1.25	32260	0.15	2000	
Ca	44	2	He	4841.415	4841.415	1.22	129453	3.74	200000	
Na	23	2	He	4790.369	4790.369	1.64	3284173	0.15	200000	
Mg	24	2	He	4941.209	4941.209	1.25	1995370	0.25	200000	
K	39	2	He	4910.011	4910.011	0.87	2588504	0.19	200000	
Mn	55	2	He	48.405	48.405	2.34	154205	0.03	2000	
Co	59	2	He	49.725	49.725	1.22	290384	0.02	2000	
Ni	60	2	He	48.831	48.831	2.85	73482	0.07	2000	
Cu	63	2	He	50.744	50.744	2.25	205658	0.02	2000	
Zn	66	2	He	52.643	52.643	1.48	44634	0.12	2000	
Al	27	2	He	101.486	101.486	1.46	26793	0.38	2000	
B	11	1	No Gas	472.619	472.619	3.72	408143	0.12	2000	
Al	27	1	No Gas	100.231	100.231	1.42	748336	0.01	2000	
Si	28	1	No Gas	576.482	576.482	3.03	2217991	0.03	2000	
Ag	107	1	No Gas	47.660	47.660	1.94	384837	0.01	2000	
Cd	111	1	No Gas	49.248	49.248	2.98	77843	0.06	2000	
Sr	88	1	No Gas	97.325	97.325	2.91	1440242	0.01	2000	
Mo	95	1	No Gas	47.690	47.690	1.96	142620	0.03	2000	
Sn	118	1	No Gas	95.363	95.363	2.54	437750	0.02	2000	
Sb	121	1	No Gas	47.164	47.164	0.59	316546	0.01	2000	
Ba	137	1	No Gas	48.248	48.248	1.86	110553	0.04	2000	
Tl	205	1	No Gas	41.550	41.550	1.24	523071	0.01	2000	
Tl	203	1	No Gas	41.491	41.491	1.23	216246	0.02	2000	
Pb	208	1	No Gas	46.699	46.699	1.01	857219	0.01	2000	
U	238	1	No Gas	99.155	99.155	1.07	1828354	0.01	2000	
Ca	43	2	He	4822.798	4822.798	0.45	7549	63.89	200000	
Sb	121	2	He	48.127	48.127	1.56	212675	0.02	2000	
Ti	47	2	He	145.948	145.948	1.06	21177	0.69	2000	
Cu	63	1	No Gas	49.991	49.991	1.15	331979	0.02	2000	
Zn	66	1	No Gas	52.714	52.714	0.90	95999	0.05	2000	
Se	82	1	No Gas	49.934	49.934	2.58	4801	1.04	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	562070	0.46	547648	102.63	70	120	
Ge	72	2	He	543627	1.46	503154	108.04	70	120	
Ge	72	1	No Gas	1432024	1.37	1347493	106.27	70	120	
In	115	1	No Gas	1233838	2.34	1132392	108.96	70	120	

Sample Report

Bi	209	1	No Gas	997710	0.69	923104	108.08	70	120	
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Sample Report

Sample Table

Sample Name HS23010489-02SD
 Data File Name 034SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:51:44-06:00
 Sample Type Sample
 Dilution 5
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	4.226	21.131	4.19	59589	0.01	2000	
Be	9	1	No Gas	0.003	0.016	196.53	13	0.02	2000	
V	51	2	He	0.153	0.767	30.55	2884	0.01	2000	
Cr	52	2	He	58.156	290.780	0.60	216136	0.03	2000	
Fe	56	2	He	563.426	2817.128	0.48	1889001	0.03	200000	
Se	78	2	He	-0.775	-3.876	-43.04	410	-0.19	2000	
As	75	2	He	0.156	0.782	90.06	224	0.07	2000	
Ca	44	2	He	13179.499	65897.496	1.34	317776	4.15	200000	
Na	23	2	He	56225.727	281128.634	0.40	33886016	0.17	200000	
Mg	24	2	He	4133.404	20667.019	1.13	1513348	0.27	200000	
K	39	2	He	308.415	1542.076	2.21	251519	0.12	200000	
Mn	55	2	He	23.231	116.155	1.36	67299	0.03	2000	
Co	59	2	He	0.680	3.399	1.70	3661	0.02	2000	
Ni	60	2	He	64.906	324.529	0.77	88534	0.07	2000	
Cu	63	2	He	1.260	6.298	2.90	6091	0.02	2000	
Zn	66	2	He	0.988	4.942	20.55	1483	0.07	2000	
Al	27	2	He	3.315	16.574	7.09	1453	0.23	2000	
B	11	1	No Gas	22.898	114.488	6.48	23203	0.10	2000	
Al	27	1	No Gas	3.265	16.323	2.60	39664	0.01	2000	
Si	28	1	No Gas	3244.692	16223.462	1.47	10179243	0.03	2000	>LDR
Ag	107	1	No Gas	0.009	0.047	3.69	297	0.00	2000	
Cd	111	1	No Gas	0.280	1.402	11.87	393	0.07	2000	
Sr	88	1	No Gas	198.829	994.145	0.84	2586583	0.01	2000	
Mo	95	1	No Gas	4.922	24.610	3.02	12970	0.04	2000	
Sn	118	1	No Gas	0.513	2.567	3.41	2834	0.02	2000	
Sb	121	1	No Gas	0.170	0.849	23.52	1377	0.01	2000	
Ba	137	1	No Gas	127.384	636.918	0.23	256234	0.05	2000	
Tl	205	1	No Gas	0.027	0.136	26.09	343	0.01	2000	
Tl	203	1	No Gas	0.033	0.167	42.32	180	0.02	2000	
Pb	208	1	No Gas	0.027	0.133	4.83	817	0.00	2000	
U	238	1	No Gas	0.601	3.006	3.63	9861	0.01	2000	
Ca	43	2	He	13532.659	67663.296	0.59	19090	70.89	200000	
Sb	121	2	He	0.153	0.764	26.05	823	0.02	2000	
Ti	47	2	He	0.027	0.137	159.53	13	0.21	2000	
Cu	63	1	No Gas	1.431	7.154	5.32	11055	0.01	2000	
Zn	66	1	No Gas	0.706	3.532	14.61	2754	0.03	2000	
Se	82	1	No Gas	-0.170	-0.850	-782.63	6	-2.83	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	526229	1.50	547648	96.09	70	120	
Ge	72	2	He	492811	0.26	503154	97.94	70	120	
Ge	72	1	No Gas	1296604	0.50	1347493	96.22	70	120	
In	115	1	No Gas	1084372	1.36	1132392	95.76	70	120	

Sample Report

Bi	209	1	No Gas	886179	0.70	923104	96.00	70	120	
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Sample Report

Sample Table

Sample Name HS23010489-02MS
 Data File Name 035SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:53:36-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	131.435	131.435	0.40	994435	0.01	2000	
Be	9	1	No Gas	53.112	53.112	3.38	96145	0.06	2000	
V	51	2	He	53.340	53.340	0.42	193116	0.03	2000	
Cr	52	2	He	392.769	392.769	0.53	1574663	0.02	2000	
Fe	56	2	He	8452.275	8452.275	1.34	30465357	0.03	200000	
Se	78	2	He	50.849	50.849	3.63	3629	1.40	2000	
As	75	2	He	54.099	54.099	0.74	34585	0.16	2000	
Ca	44	2	He	88502.721	88502.721	1.39	2314645	3.82	200000	
Na	23	2	He	361395.925	361395.925	1.16	236251530	0.15	200000	>LDR
Mg	24	2	He	30694.922	30694.922	0.69	12218506	0.25	200000	
K	39	2	He	7043.088	7043.088	1.29	3607956	0.20	200000	
Mn	55	2	He	194.792	194.792	0.76	610578	0.03	2000	
Co	59	2	He	55.680	55.680	0.27	320535	0.02	2000	
Ni	60	2	He	454.190	454.190	0.84	673017	0.07	2000	
Cu	63	2	He	56.684	56.684	1.09	226295	0.03	2000	
Zn	66	2	He	55.426	55.426	1.20	46286	0.12	2000	
Al	27	2	He	116.993	116.993	0.44	30330	0.39	2000	
B	11	1	No Gas	585.297	585.297	5.05	492122	0.12	2000	
Al	27	1	No Gas	115.775	115.775	5.28	831856	0.01	2000	
Si	28	1	No Gas	21980.333	21980.333	2.63	72094672	0.03	2000	>LDR
Ag	107	1	No Gas	48.350	48.350	2.48	372684	0.01	2000	
Cd	111	1	No Gas	50.218	50.218	2.96	75788	0.07	2000	
Sr	88	1	No Gas	1307.985	1307.985	2.80	18475731	0.01	2000	
Mo	95	1	No Gas	82.615	82.615	3.90	235823	0.04	2000	
Sn	118	1	No Gas	101.848	101.848	2.18	446291	0.02	2000	
Sb	121	1	No Gas	49.837	49.837	1.75	323199	0.02	2000	
Ba	137	1	No Gas	886.818	886.818	2.81	1935584	0.05	2000	
Tl	205	1	No Gas	41.945	41.945	2.34	485087	0.01	2000	
Tl	203	1	No Gas	42.067	42.067	2.27	201370	0.02	2000	
Pb	208	1	No Gas	50.069	50.069	1.72	844233	0.01	2000	
U	238	1	No Gas	114.016	114.016	0.47	1931448	0.01	2000	
Ca	43	2	He	90988.721	90988.721	0.76	139180	65.37	200000	
Sb	121	2	He	51.724	51.724	0.39	225308	0.02	2000	
Ti	47	2	He	159.727	159.727	0.79	22846	0.70	2000	
Cu	63	1	No Gas	56.541	56.541	1.94	362489	0.02	2000	
Zn	66	1	No Gas	53.255	53.255	3.37	93679	0.06	2000	
Se	82	1	No Gas	51.672	51.672	3.05	4798	1.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	548540	0.73	547648	100.16	70	120	
Ge	72	2	He	535874	1.69	503154	106.50	70	120	
Ge	72	1	No Gas	1384098	2.63	1347493	102.72	70	120	
In	115	1	No Gas	1177611	0.90	1132392	103.99	70	120	
Bi	209	1	No Gas	916533	2.18	923104	99.29	70	120	

Sample Report

Sample Table

Sample Name HS23010489-02MSD
 Data File Name 036SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:55:29-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	133.355	133.355	2.60	1007115	0.01	2000	
Be	9	1	No Gas	53.764	53.764	4.88	97107	0.06	2000	
V	51	2	He	53.278	53.278	0.86	190226	0.03	2000	
Cr	52	2	He	385.691	385.691	1.53	1524905	0.03	2000	
Fe	56	2	He	8454.387	8454.387	1.19	30052327	0.03	200000	
Se	78	2	He	50.739	50.739	0.67	3574	1.42	2000	
As	75	2	He	53.713	53.713	0.56	33870	0.16	2000	
Ca	44	2	He	89226.839	89226.839	1.53	2300588	3.88	200000	
Na	23	2	He	365171.771	365171.771	0.65	235418003	0.16	200000	>LDR
Mg	24	2	He	30876.189	30876.189	0.79	12122780	0.25	200000	
K	39	2	He	7117.117	7117.117	0.74	3594468	0.20	200000	
Mn	55	2	He	194.853	194.853	0.94	602280	0.03	2000	
Co	59	2	He	55.743	55.743	0.65	316463	0.02	2000	
Ni	60	2	He	453.709	453.709	1.05	663048	0.07	2000	
Cu	63	2	He	56.436	56.436	0.67	222243	0.03	2000	
Zn	66	2	He	54.811	54.811	1.56	45162	0.12	2000	
Al	27	2	He	117.682	117.682	2.40	30073	0.39	2000	
B	11	1	No Gas	618.264	618.264	3.02	518579	0.12	2000	
Al	27	1	No Gas	116.290	116.290	5.49	823680	0.01	2000	
Si	28	1	No Gas	22295.977	22295.977	1.70	72084816	0.03	2000	>LDR
Ag	107	1	No Gas	48.966	48.966	1.94	368909	0.01	2000	
Cd	111	1	No Gas	51.077	51.077	2.19	75345	0.07	2000	
Sr	88	1	No Gas	1372.609	1372.609	4.71	18940832	0.01	2000	
Mo	95	1	No Gas	84.195	84.195	4.20	234797	0.04	2000	
Sn	118	1	No Gas	114.662	114.662	2.00	491006	0.02	2000	
Sb	121	1	No Gas	50.207	50.207	0.35	321008	0.02	2000	
Ba	137	1	No Gas	914.953	914.953	1.70	1952043	0.05	2000	
Tl	205	1	No Gas	44.062	44.062	4.70	496009	0.01	2000	
Tl	203	1	No Gas	43.965	43.965	4.57	204904	0.02	2000	
Pb	208	1	No Gas	50.949	50.949	1.87	836572	0.01	2000	
U	238	1	No Gas	117.065	117.065	2.63	1931995	0.01	2000	
Ca	43	2	He	91236.165	91236.165	1.04	137621	66.30	200000	
Sb	121	2	He	51.169	51.169	0.07	219844	0.02	2000	
Ti	47	2	He	170.174	170.174	0.19	24005	0.71	2000	
Cu	63	1	No Gas	56.618	56.618	1.60	357853	0.02	2000	
Zn	66	1	No Gas	54.708	54.708	1.46	94874	0.06	2000	
Se	82	1	No Gas	51.078	51.078	3.71	4678	1.09	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	547939	3.18	547648	100.05	70	120	
Ge	72	2	He	528512	2.51	503154	105.04	70	120	
Ge	72	1	No Gas	1364285	1.82	1347493	101.25	70	120	
In	115	1	No Gas	1151399	3.37	1132392	101.68	70	120	
Bi	209	1	No Gas	892703	2.37	923104	96.71	70	120	

Sample Report

Sample Table

Sample Name HS23010489-02PDS
 Data File Name 037SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T14:57:28-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	25.066	25.066	1.31	217020	0.01	2000	
Be	9	1	No Gas	102.468	102.468	1.03	187323	0.05	2000	
V	51	2	He	103.420	103.420	0.87	369352	0.03	2000	
Cr	52	2	He	440.196	440.196	0.54	1751990	0.03	2000	
Fe	56	2	He	13244.126	13244.126	0.81	47386246	0.03	200000	
Se	78	2	He	99.423	99.423	2.76	6579	1.51	2000	
As	75	2	He	106.018	106.018	0.85	67160	0.16	2000	
Ca	44	2	He	92629.257	92629.257	1.59	2404865	3.85	200000	
Na	23	2	He	363207.745	363207.745	1.22	235742423	0.15	200000	>LDR
Mg	24	2	He	35402.109	35402.109	1.59	13991255	0.25	200000	
K	39	2	He	11945.582	11945.582	0.50	5991859	0.20	200000	
Mn	55	2	He	241.865	241.865	0.45	752582	0.03	2000	
Co	59	2	He	105.491	105.491	1.35	602894	0.02	2000	
Ni	60	2	He	500.158	500.158	0.98	735851	0.07	2000	
Cu	63	2	He	104.746	104.746	0.63	413832	0.03	2000	
Zn	66	2	He	103.163	103.163	0.72	84849	0.12	2000	
Al	27	2	He	114.751	114.751	1.92	29548	0.39	2000	
B	11	1	No Gas	56.476	56.476	4.86	52635	0.11	2000	
Al	27	1	No Gas	115.095	115.095	0.99	813246	0.01	2000	
Si	28	1	No Gas	20748.262	20748.262	1.50	66886391	0.03	2000	>LDR
Ag	107	1	No Gas	98.111	98.111	0.95	716117	0.01	2000	
Cd	111	1	No Gas	102.584	102.584	0.44	146657	0.07	2000	
Sr	88	1	No Gas	1225.215	1225.215	0.39	16394082	0.01	2000	
Mo	95	1	No Gas	135.095	135.095	0.38	365281	0.04	2000	
Sn	118	1	No Gas	0.565	0.565	2.38	3130	0.02	2000	
Sb	121	1	No Gas	95.745	95.745	1.37	609845	0.02	2000	
Ba	137	1	No Gas	953.363	953.363	2.16	1970905	0.05	2000	
Tl	205	1	No Gas	97.992	97.992	0.44	1087600	0.01	2000	
Tl	203	1	No Gas	98.564	98.564	0.36	452902	0.02	2000	
Pb	208	1	No Gas	98.842	98.842	0.63	1599297	0.01	2000	
U	238	1	No Gas	3.981	3.981	1.65	64739	0.01	2000	
Ca	43	2	He	93578.163	93578.163	2.23	142115	65.85	200000	
Sb	121	2	He	101.192	101.192	0.08	437432	0.02	2000	
Ti	47	2	He	105.385	105.385	1.94	14968	0.70	2000	
Cu	63	1	No Gas	103.393	103.393	0.41	649234	0.02	2000	
Zn	66	1	No Gas	101.754	101.754	0.50	174405	0.06	2000	
Se	82	1	No Gas	98.078	98.078	1.31	8932	1.10	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	554107	1.37	547648	101.18	70	120	
Ge	72	2	He	532033	0.39	503154	105.74	70	120	
Ge	72	1	No Gas	1359864	1.13	1347493	100.92	70	120	
In	115	1	No Gas	1115461	1.23	1132392	98.50	70	120	
Bi	209	1	No Gas	879657	0.36	923104	95.29	70	120	



Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 041_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:06:39-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	100.974	1.611	742887	0.43	100	101.0	90	110	
Be	9	1	No Gas	99.558	1.973	173571	0.70	100	99.6	90	110	
V	51	2	He	99.190	0.187	333792	0.27	100	99.2	90	110	
Cr	52	2	He	99.216	0.504	373551	0.30	100	99.2	90	110	
Fe	56	2	He	9903.728	0.167	33385295	0.31	10000	99.0	90	110	
Se	78	2	He	97.533	1.720	6088	1.34	100	97.5	90	110	
As	75	2	He	101.512	0.396	60580	0.14	100	101.5	90	110	
Ca	44	2	He	9915.555	0.365	243389	0.51	10000	99.2	90	110	
Na	23	2	He	9967.175	1.193	6191835	1.37	10000	99.7	90	110	
Mg	24	2	He	10129.450	1.228	3771137	1.16	10000	101.3	90	110	
K	39	2	He	10072.550	0.399	4777005	0.35	10000	100.7	90	110	
Mn	55	2	He	100.182	0.625	293874	0.84	100	100.2	90	110	
Co	59	2	He	101.074	0.460	544133	0.29	100	101.1	90	110	
Ni	60	2	He	99.866	0.752	138477	0.65	100	99.9	90	110	
Cu	63	2	He	98.787	0.371	367735	0.57	100	98.8	90	110	
Zn	66	2	He	103.312	1.431	80042	1.43	100	103.3	90	110	
Al	27	2	He	101.084	3.367	24602	3.18	100	101.1	90	110	
B	11	1	No Gas	503.195	1.152	408249	2.20	500	100.6	90	110	
Al	27	1	No Gas	104.367	1.255	693113	1.27	100	104.4	90	110	
Si	28	1	No Gas	546.223	3.334	1883969	2.60	5000	10.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.574	0.652	694562	1.51	100	98.6	90	110	
Cd	111	1	No Gas	100.625	1.836	138838	0.85	100	100.6	90	110	
Sr	88	1	No Gas	102.395	2.763	1322730	2.52	100	102.4	90	110	
Mo	95	1	No Gas	99.162	1.169	258813	1.14	100	99.2	90	110	
Sn	118	1	No Gas	100.397	0.645	402289	1.33	100	100.4	90	110	
Sb	121	1	No Gas	95.482	1.694	570195	1.21	100	95.5	90	110	
Ba	137	1	No Gas	100.436	0.792	200653	1.67	100	100.4	90	110	
Tl	205	1	No Gas	100.759	1.862	1109034	1.61	100	100.8	90	110	
Tl	203	1	No Gas	101.439	1.452	462253	1.47	100	101.4	90	110	
Pb	208	1	No Gas	94.447	1.417	1515540	1.47	100	94.4	90	110	
U	238	1	No Gas	100.486	0.638	1620137	0.34	100	100.5	90	110	
Ca	43	2	He	10041.043	1.875	14421	1.81	10000	100.4	90	110	
Sb	121	2	He	98.568	0.403	401382	0.68	100	98.6	90	110	
Ti	47	2	He	100.271	1.523	13417	1.81	100	100.3	90	110	
Cu	63	1	No Gas	97.825	1.844	576040	1.38	100	97.8	90	110	
Se	82	1	No Gas	99.523	3.322	8499	3.89	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	528494	1.39	547648	96.50	70	120	
Ge	72	2	He	501173	0.29	503154	99.61	70	120	
Ge	72	1	No Gas	1274991	0.70	1347493	94.62	70	120	
In	115	1	No Gas	1076762	1.68	1132392	95.09	70	120	
Bi	209	1	No Gas	872382	0.48	923104	94.51	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 042_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:08:31-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.324	36.0	32282	2.4	0.5	
Be	9	1	No Gas	0.014	44.2	32	32.9	0.5	
V	51	2	He	0.075	30.4	2560	2.4	2.5	
Cr	52	2	He	0.251	5.7	2857	2.0	2.5	
Fe	56	2	He	1.894	6.5	28236	1.8	100	
Se	78	2	He	0.630	57.7	477	4.6	2	
As	75	2	He	0.131	51.1	204	19.3	2.5	
Ca	44	2	He	-4.185	-146.4	867	17.1	100	
Na	23	2	He	49.190	1.2	125255	0.5	100	
Mg	24	2	He	0.649	65.1	543	27.6	100	
K	39	2	He	13.415	14.3	114241	1.2	100	
Mn	55	2	He	0.194	3.2	913	2.3	2.5	
Co	59	2	He	-0.002	-170.2	50	34.6	2.5	
Ni	60	2	He	0.139	19.1	277	12.7	2.5	
Cu	63	2	He	0.191	39.1	2140	13.0	2	
Zn	66	2	He	-0.066	-170.8	670	12.2	2.5	
Al	27	2	He	0.240	226.9	720	17.7	5	
B	11	1	No Gas	36.319	10.6	34043	8.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.507	25.6	20916	3.0	5	
Si	28	1	No Gas	10.407	5.4	267609	0.9	10	CCB Main CR1 Failed
Ag	107	1	No Gas	0.010	90.4	297	20.3	2.5	
Cd	111	1	No Gas	0.003	164.2	7	86.6	1	
Sr	88	1	No Gas	0.015	67.7	543	23.0	2.5	
Mo	95	1	No Gas	0.064	9.4	203	7.5	2.5	
Sn	118	1	No Gas	0.704	8.5	3591	5.9	5	
Sb	121	1	No Gas	0.122	26.8	1057	18.3	2.5	
Ba	137	1	No Gas	-0.055	-17.9	107	19.5	2.5	
Tl	205	1	No Gas	0.120	48.1	1377	47.2	1	
Tl	203	1	No Gas	0.129	61.2	620	59.2	1	
Pb	208	1	No Gas	0.026	28.6	813	15.0	2.5	
U	238	1	No Gas	0.006	100.9	110	86.7	2.5	
Ca	43	2	He	-10.282	-145.5	47	44.6	100	
Sb	121	2	He	0.092	13.4	567	8.7	2.5	
Ti	47	2	He	0.057	288.5	17	124.9	2.5	
Cu	63	1	No Gas	0.242	1.8	3857	1.5	2.5	
Se	82	1	No Gas	0.271	638.4	42	343.6	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	528158	0.23	547648	96.44	70	120	
Ge	72	2	He	480339	0.56	503154	95.47	70	120	
Ge	72	1	No Gas	1260748	0.99	1347493	93.56	70	120	
In	115	1	No Gas	1081454	0.95	1132392	95.50	70	120	
Bi	209	1	No Gas	883741	1.01	923104	95.74	70	120	



Sample Report

Sample Table

Sample Name HS23010794-04
 Data File Name 052SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:27:31-06:00
 Sample Type Sample
 Dilution 1
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.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	95.104	95.104	3.06	796917	0.01	2000	
Be	9	1	No Gas	0.026	0.026	28.99	60	0.04	2000	
V	51	2	He	0.262	0.262	12.36	3653	0.01	2000	
Cr	52	2	He	3.297	3.297	3.90	15933	0.02	2000	
Fe	56	2	He	93.202	93.202	1.24	373342	0.02	200000	
Se	78	2	He	-0.021	-0.021	-142.05	510	0.00	2000	
As	75	2	He	0.191	0.191	14.70	276	0.07	2000	
Ca	44	2	He	98304.556	98304.556	0.40	2662880	3.69	200000	
Na	23	2	He	311839.318	311839.318	0.74	211196604	0.15	200000	>LDR
Mg	24	2	He	48698.916	48698.916	0.73	20080843	0.24	200000	
K	39	2	He	785.535	785.535	0.86	528035	0.15	200000	
Mn	55	2	He	253.688	253.688	0.48	823635	0.03	2000	
Co	59	2	He	0.975	0.975	2.60	5881	0.02	2000	
Ni	60	2	He	18.766	18.766	1.22	28911	0.06	2000	
Cu	63	2	He	1.678	1.678	6.85	8583	0.02	2000	
Zn	66	2	He	10.229	10.229	3.64	9527	0.11	2000	
Al	27	2	He	42.331	42.331	2.10	11859	0.36	2000	
B	11	1	No Gas	30.078	30.078	2.13	33019	0.09	2000	
Al	27	1	No Gas	41.723	41.723	1.60	326766	0.01	2000	
Si	28	1	No Gas	17261.145	17261.145	0.97	59287069	0.03	2000	>LDR
Ag	107	1	No Gas	-0.013	-0.013	-58.15	147	-0.01	2000	
Cd	111	1	No Gas	0.133	0.133	20.52	203	0.07	2000	
Sr	88	1	No Gas	2250.813	2250.813	1.13	31561134	0.01	2000	>LDR
Mo	95	1	No Gas	0.448	0.448	7.10	1307	0.03	2000	
Sn	118	1	No Gas	0.258	0.258	7.79	1947	0.01	2000	
Sb	121	1	No Gas	0.070	0.070	7.38	860	0.01	2000	
Ba	137	1	No Gas	32.005	32.005	1.21	69577	0.05	2000	
Tl	205	1	No Gas	0.005	0.005	64.40	100	0.01	2000	
Tl	203	1	No Gas	0.011	0.011	10.07	77	0.01	2000	
Pb	208	1	No Gas	0.131	0.131	9.99	2563	0.01	2000	
U	238	1	No Gas	1.280	1.280	2.96	21316	0.01	2000	
Ca	43	2	He	100643.635	100643.635	1.17	159478	63.11	200000	
Sb	121	2	He	0.097	0.097	19.22	677	0.01	2000	
Ti	47	2	He	1.141	1.141	25.50	180	0.63	2000	
Cu	63	1	No Gas	3.097	3.097	2.40	23437	0.01	2000	
Zn	66	1	No Gas	9.894	9.894	2.49	19675	0.05	2000	
Se	82	1	No Gas	1.342	1.342	85.81	153	0.88	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	600393	0.52	547648	109.63	70	120	
Ge	72	2	He	555131	0.61	503154	110.33	70	120	
Ge	72	1	No Gas	1447599	0.64	1347493	107.43	70	120	
In	115	1	No Gas	1168949	0.32	1132392	103.23	70	120	
Bi	209	1	No Gas	900491	1.12	923104	97.55	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 053_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:31:57-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	102.347	1.904	787216	1.84	100	102.3	90	110	
Be	9	1	No Gas	101.389	0.471	184910	1.08	100	101.4	90	110	
V	51	2	He	99.535	0.556	349672	0.32	100	99.5	90	110	
Cr	52	2	He	98.355	0.823	386609	0.16	100	98.4	90	110	
Fe	56	2	He	10011.928	1.102	35232802	0.36	10000	100.1	90	110	
Se	78	2	He	101.912	2.967	6619	2.09	100	101.9	90	110	
As	75	2	He	100.172	1.550	62408	0.82	100	100.2	90	110	
Ca	44	2	He	10081.359	1.695	258306	0.93	10000	100.8	90	110	
Na	23	2	He	10550.264	0.711	6836288	1.22	10000	105.5	90	110	
Mg	24	2	He	10328.836	1.884	4014242	1.26	10000	103.3	90	110	
K	39	2	He	10414.667	1.420	5152231	0.63	10000	104.1	90	110	
Mn	55	2	He	100.031	0.857	306327	0.12	100	100.0	90	110	
Co	59	2	He	99.811	0.698	560962	0.09	100	99.8	90	110	
Ni	60	2	He	99.770	1.136	144425	0.42	100	99.8	90	110	
Cu	63	2	He	98.194	1.308	381594	0.56	100	98.2	90	110	
Zn	66	2	He	102.119	0.913	82611	1.48	100	102.1	90	110	
Al	27	2	He	103.842	2.964	26362	2.14	100	103.8	90	110	
B	11	1	No Gas	493.198	2.442	418667	3.52	500	98.6	90	110	
Al	27	1	No Gas	105.453	2.554	730899	1.00	100	105.5	90	110	
Si	28	1	No Gas	540.344	5.197	1947693	2.20	5000	10.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.198	0.117	700243	1.43	100	99.2	90	110	
Cd	111	1	No Gas	99.903	0.603	138120	1.81	100	99.9	90	110	
Sr	88	1	No Gas	105.096	1.500	1360412	2.78	100	105.1	90	110	
Mo	95	1	No Gas	100.292	0.805	262275	2.11	100	100.3	90	110	
Sn	118	1	No Gas	99.747	1.033	400390	0.31	100	99.7	90	110	
Sb	121	1	No Gas	91.261	2.260	569047	1.90	100	91.3	90	110	
Ba	137	1	No Gas	99.570	1.888	199287	2.31	100	99.6	90	110	
Tl	205	1	No Gas	100.451	0.686	1088065	1.54	100	100.5	90	110	
Tl	203	1	No Gas	100.946	1.729	452684	2.29	100	100.9	90	110	
Pb	208	1	No Gas	94.587	1.182	1493652	2.06	100	94.6	90	110	
U	238	1	No Gas	99.422	2.430	1577225	1.70	100	99.4	90	110	
Ca	43	2	He	10124.475	3.071	15179	2.59	10000	101.2	90	110	
Sb	121	2	He	96.244	0.488	409159	0.44	100	96.2	90	110	
Ti	47	2	He	102.687	0.921	14344	1.59	100	102.7	90	110	
Cu	63	1	No Gas	96.529	2.602	593447	1.19	100	96.5	90	110	
Se	82	1	No Gas	94.973	1.783	8469	2.06	100	95.0	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	552765	1.18	547648	100.93	70	120	
Ge	72	2	He	523224	0.76	503154	103.99	70	120	
Ge	72	1	No Gas	1331653	3.09	1347493	98.82	70	120	
In	115	1	No Gas	1078697	1.33	1132392	95.26	70	120	
Bi	209	1	No Gas	858455	0.94	923104	93.00	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 054_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T15:33:49-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.308	12.3	34038	1.1	0.5	
Be	9	1	No Gas	-0.001	-316.2	7	86.6	0.5	
V	51	2	He	0.358	15.4	3654	4.0	2.5	
Cr	52	2	He	0.214	22.2	2870	6.6	2.5	
Fe	56	2	He	2.464	1.3	31714	1.4	100	
Se	78	2	He	0.401	111.6	490	5.9	2	
As	75	2	He	0.191	33.3	251	14.7	2.5	
Ca	44	2	He	-5.035	-112.9	893	16.8	100	
Na	23	2	He	292.246	2.1	282157	0.7	100	CCB Main CR1 Failed
Mg	24	2	He	1.394	8.8	853	5.9	100	
K	39	2	He	24.241	9.7	125514	0.2	100	
Mn	55	2	He	0.155	11.8	850	7.3	2.5	
Co	59	2	He	-0.006	-30.7	30	33.3	2.5	
Ni	60	2	He	0.133	35.9	283	22.7	2.5	
Cu	63	2	He	0.116	24.7	1977	4.5	2	
Zn	66	2	He	0.015	1639.0	770	24.8	2.5	
Al	27	2	He	0.278	211.6	767	17.2	5	
B	11	1	No Gas	28.682	12.5	29545	10.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.479	24.2	21814	2.7	5	
Si	28	1	No Gas	8.188	14.6	274493	0.3	10	
Ag	107	1	No Gas	0.013	48.0	327	12.7	2.5	
Cd	111	1	No Gas	0.002	167.3	7	86.6	1	
Sr	88	1	No Gas	0.038	30.0	853	17.6	2.5	
Mo	95	1	No Gas	0.050	50.1	167	38.1	2.5	
Sn	118	1	No Gas	0.494	4.6	2784	2.4	5	
Sb	121	1	No Gas	0.099	21.2	970	12.7	2.5	
Ba	137	1	No Gas	-0.051	-5.6	117	4.9	2.5	
Tl	205	1	No Gas	0.116	48.3	1320	46.4	1	
Tl	203	1	No Gas	0.113	55.3	543	52.2	1	
Pb	208	1	No Gas	0.016	15.8	637	5.9	2.5	
U	238	1	No Gas	0.006	24.3	113	20.4	2.5	
Ca	43	2	He	-18.927	-20.1	37	15.7	100	
Sb	121	2	He	0.094	18.6	603	10.8	2.5	
Ti	47	2	He	0.099	86.5	23	49.5	2.5	
Cu	63	1	No Gas	0.498	7.4	5618	4.0	2.5	
Se	82	1	No Gas	0.702	80.8	83	60.1	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	558777	0.34	547648	102.03	70	120	
Ge	72	2	He	506481	1.10	503154	100.66	70	120	
Ge	72	1	No Gas	1326065	1.36	1347493	98.41	70	120	
In	115	1	No Gas	1096407	1.51	1132392	96.82	70	120	
Bi	209	1	No Gas	876829	0.77	923104	94.99	70	120	



Sample Report

Sample Table

Sample Name HS23010489-02SD
 Data File Name 059SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:01:06-06:00
 Sample Type Sample
 Dilution 50
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Pass
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.515	25.771	12.25	36071	0.00	2000	
Be	9	1	No Gas	-0.003	-0.141	-54.84	3	-0.08	2000	
V	51	2	He	0.932	46.593	3.60	5738	0.02	2000	
Cr	52	2	He	7.140	357.016	3.04	29836	0.02	2000	
Fe	56	2	He	69.371	3468.571	0.23	266271	0.03	200000	
Se	78	2	He	0.015	0.741	5213.32	479	0.00	2000	
As	75	2	He	0.270	13.502	24.18	307	0.09	2000	
Ca	44	2	He	1615.957	80797.865	2.50	42008	3.85	200000	
Na	23	2	He	7290.679	364533.973	0.86	4724482	0.15	200000	
Mg	24	2	He	530.429	26521.467	1.39	205088	0.26	200000	
K	39	2	He	41.156	2057.790	9.67	136932	0.03	200000	
Mn	55	2	He	2.991	149.565	2.46	9487	0.03	2000	
Co	59	2	He	0.088	4.403	8.10	557	0.02	2000	
Ni	60	2	He	8.007	400.373	4.02	11605	0.07	2000	
Cu	63	2	He	0.210	10.516	15.14	2390	0.01	2000	
Zn	66	2	He	0.765	38.268	27.84	1387	0.06	2000	
Al	27	2	He	1.139	56.960	48.12	1000	0.11	2000	
B	11	1	No Gas	5.429	271.459	3.86	9980	0.05	2000	
Al	27	1	No Gas	1.511	75.572	5.64	29198	0.01	2000	
Si	28	1	No Gas	439.311	21965.551	1.03	1649121	0.03	2000	
Ag	107	1	No Gas	0.005	0.247	62.00	273	0.00	2000	
Cd	111	1	No Gas	0.000	0.003	5975.86	3	0.00	2000	
Sr	88	1	No Gas	23.597	1179.840	1.59	316957	0.01	2000	
Mo	95	1	No Gas	0.616	30.814	12.59	1707	0.04	2000	
Sn	118	1	No Gas	0.282	14.124	14.94	1964	0.01	2000	
Sb	121	1	No Gas	0.057	2.858	24.64	720	0.01	2000	
Ba	137	1	No Gas	15.638	781.897	1.71	32648	0.05	2000	
Tl	205	1	No Gas	0.002	0.106	25.45	63	0.00	2000	
Tl	203	1	No Gas	-0.001	-0.065	-163.15	20	-0.01	2000	
Pb	208	1	No Gas	0.005	0.233	59.17	470	0.00	2000	
U	238	1	No Gas	0.069	3.446	5.07	1170	0.01	2000	
Ca	43	2	He	1783.483	89174.165	1.29	2710	65.80	200000	
Sb	121	2	He	0.047	2.326	21.60	420	0.01	2000	
Ti	47	2	He	0.069	3.469	178.96	20	0.35	2000	
Cu	63	1	No Gas	0.348	17.393	14.67	4771	0.01	2000	
Zn	66	1	No Gas	0.780	38.988	17.58	2980	0.03	2000	
Se	82	1	No Gas	-0.427	-21.362	-278.66	-17	2.50	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	566410	0.15	547648	103.43	70	120	
Ge	72	2	He	519726	1.06	503154	103.29	70	120	
Ge	72	1	No Gas	1346012	0.78	1347493	99.89	70	120	
In	115	1	No Gas	1118554	1.07	1132392	98.78	70	120	



Sample Report

Bi	209	1	No Gas	905832	0.92	923104	98.13	70	120	
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Sample Report

Sample Table

Sample Name HS23010489-02PDS
 Data File Name 060SMPL.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:03:00-06:00
 Sample Type Sample
 Dilution 10
 Comment DOD TW B 188726
 ISTD Ref FileName 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.474	24.737	1.97	51196	0.00	2000	
Be	9	1	No Gas	99.682	996.819	1.53	187402	0.05	2000	
V	51	2	He	101.364	1013.637	0.20	352430	0.03	2000	
Cr	52	2	He	136.470	1364.703	0.71	530161	0.03	2000	
Fe	56	2	He	10391.921	103919.205	0.16	36198206	0.03	200000	
Se	78	2	He	101.473	1014.732	3.51	6526	1.56	2000	
As	75	2	He	100.914	1009.137	1.15	62233	0.16	2000	
Ca	44	2	He	17944.922	179449.215	0.71	454316	3.95	200000	
Na	23	2	He	45983.126	459831.265	0.54	29142033	0.16	200000	
Mg	24	2	He	12716.825	127168.247	0.75	4892153	0.26	200000	
K	39	2	He	10423.452	104234.523	1.59	5103945	0.20	200000	
Mn	55	2	He	115.009	1150.089	0.61	348554	0.03	2000	
Co	59	2	He	102.203	1022.027	1.22	568552	0.02	2000	
Ni	60	2	He	138.380	1383.796	0.88	198240	0.07	2000	
Cu	63	2	He	99.388	993.877	1.16	382298	0.03	2000	
Zn	66	2	He	101.341	1013.411	0.85	81152	0.12	2000	
Al	27	2	He	103.483	1034.831	1.68	26011	0.40	2000	
B	11	1	No Gas	6.758	67.585	2.32	11190	0.06	2000	
Al	27	1	No Gas	100.567	1005.674	1.71	724467	0.01	2000	
Si	28	1	No Gas	2017.956	20179.557	2.71	6843482	0.03	2000	>LDR
Ag	107	1	No Gas	98.877	988.768	0.40	732293	0.01	2000	
Cd	111	1	No Gas	100.028	1000.278	0.38	145086	0.07	2000	
Sr	88	1	No Gas	123.549	1235.489	2.08	1677674	0.01	2000	
Mo	95	1	No Gas	103.903	1039.030	1.17	285049	0.04	2000	
Sn	118	1	No Gas	0.250	2.500	7.90	1850	0.01	2000	
Sb	121	1	No Gas	91.118	911.177	1.60	589720	0.02	2000	
Ba	137	1	No Gas	177.822	1778.216	0.78	373224	0.05	2000	
Tl	205	1	No Gas	103.615	1036.150	0.73	1185213	0.01	2000	
Tl	203	1	No Gas	104.065	1040.646	1.51	492777	0.02	2000	
Pb	208	1	No Gas	95.681	956.812	1.45	1595509	0.01	2000	
U	238	1	No Gas	0.366	3.664	1.90	6155	0.01	2000	
Ca	43	2	He	18059.647	180596.472	2.27	26750	67.51	200000	
Sb	121	2	He	97.570	975.703	1.28	410559	0.02	2000	
Ti	47	2	He	103.460	1034.602	1.85	14304	0.72	2000	
Cu	63	1	No Gas	96.215	962.149	1.49	614058	0.02	2000	
Zn	66	1	No Gas	96.888	968.879	1.71	168818	0.06	2000	
Se	82	1	No Gas	94.726	947.261	1.80	8766	1.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	569829	0.53	547648	104.05	70	120	
Ge	72	2	He	517891	0.64	503154	102.93	70	120	
Ge	72	1	No Gas	1381934	1.80	1347493	102.56	70	120	
In	115	1	No Gas	1131735	0.41	1132392	99.94	70	120	



Sample Report

Bi	209	1	No Gas	906595	0.89	923104	98.21	70	120	
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Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 062_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:06:46-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	102.198	3.526	807325	2.82	100	102.2	90	110	
Be	9	1	No Gas	98.499	0.934	184500	0.74	100	98.5	90	110	
V	51	2	He	99.091	0.397	358555	0.80	100	99.1	90	110	
Cr	52	2	He	99.409	0.645	402437	0.84	100	99.4	90	110	
Fe	56	2	He	10018.561	0.887	36313575	1.20	10000	100.2	90	110	
Se	78	2	He	98.100	2.968	6581	2.40	100	98.1	90	110	
As	75	2	He	99.676	1.429	63965	1.84	100	99.7	90	110	
Ca	44	2	He	9937.924	1.282	262285	1.23	10000	99.4	90	110	
Na	23	2	He	10252.316	0.895	6845099	1.27	10000	102.5	90	110	
Mg	24	2	He	10265.660	0.446	4109461	0.86	10000	102.7	90	110	
K	39	2	He	10151.130	0.550	5175621	0.95	10000	101.5	90	110	
Mn	55	2	He	100.481	0.784	316929	1.17	100	100.5	90	110	
Co	59	2	He	100.540	0.645	581994	1.03	100	100.5	90	110	
Ni	60	2	He	98.832	0.277	147357	0.69	100	98.8	90	110	
Cu	63	2	He	98.429	0.336	393973	0.56	100	98.4	90	110	
Zn	66	2	He	101.253	0.023	84365	0.40	100	101.3	90	110	
Al	27	2	He	105.469	3.228	27571	3.56	100	105.5	90	110	
B	11	1	No Gas	483.361	1.839	421553	3.27	500	96.7	90	110	
Al	27	1	No Gas	104.682	1.810	746332	0.58	100	104.7	90	110	
Si	28	1	No Gas	520.442	1.955	1939462	0.37	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.311	1.830	734595	1.18	100	98.3	90	110	
Cd	111	1	No Gas	100.161	1.362	146587	1.42	100	100.2	90	110	
Sr	88	1	No Gas	104.050	2.249	1425466	1.28	100	104.1	90	110	
Mo	95	1	No Gas	98.945	2.190	273857	0.54	100	98.9	90	110	
Sn	118	1	No Gas	99.177	1.545	421480	1.69	100	99.2	90	110	
Sb	121	1	No Gas	93.093	0.987	596979	1.41	100	93.1	90	110	
Ba	137	1	No Gas	99.586	2.362	210982	1.80	100	99.6	90	110	
Tl	205	1	No Gas	101.821	0.846	1174086	0.63	100	101.8	90	110	
Tl	203	1	No Gas	102.422	1.004	488938	0.58	100	102.4	90	110	
Pb	208	1	No Gas	95.952	0.786	1612988	0.96	100	96.0	90	110	
U	238	1	No Gas	101.881	2.660	1720743	2.29	100	101.9	90	110	
Ca	43	2	He	9882.837	6.093	15265	6.47	10000	98.8	90	110	
Sb	121	2	He	97.158	0.780	425417	1.17	100	97.2	90	110	
Ti	47	2	He	100.674	2.802	14485	3.20	100	100.7	90	110	
Cu	63	1	No Gas	95.942	0.795	606715	1.37	100	95.9	90	110	
Se	82	1	No Gas	97.777	3.537	8963	2.18	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	567767	1.61	547648	103.67	70	120	
Ge	72	2	He	538878	0.41	503154	107.10	70	120	
Ge	72	1	No Gas	1369128	1.80	1347493	101.61	70	120	
In	115	1	No Gas	1142144	2.47	1132392	100.86	70	120	
Bi	209	1	No Gas	913934	1.00	923104	99.01	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 063_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:08:38-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.049	99.0	31920	1.5	0.5	
Be	9	1	No Gas	0.002	178.9	12	49.5	0.5	
V	51	2	He	0.064	22.4	2668	1.4	2.5	
Cr	52	2	He	0.279	13.7	3124	5.3	2.5	
Fe	56	2	He	1.895	4.8	29856	1.9	100	
Se	78	2	He	0.611	50.0	503	2.8	2	
As	75	2	He	0.112	11.6	204	4.1	2.5	
Ca	44	2	He	-7.506	-68.5	833	15.2	100	
Na	23	2	He	99.183	1.8	163361	0.7	100	
Mg	24	2	He	0.768	45.1	620	21.7	100	
K	39	2	He	7.174	11.5	117841	1.4	100	
Mn	55	2	He	0.101	32.8	690	15.3	2.5	
Co	59	2	He	-0.003	-36.2	47	12.4	2.5	
Ni	60	2	He	0.120	48.5	267	31.5	2.5	
Cu	63	2	He	0.085	42.2	1867	8.3	2	
Zn	66	2	He	0.005	2531.0	763	13.2	2.5	
Al	27	2	He	0.197	90.0	750	4.8	5	
B	11	1	No Gas	26.441	16.8	27462	12.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.468	8.3	21958	1.9	5	
Si	28	1	No Gas	0.356	671.3	252345	0.9	10	
Ag	107	1	No Gas	0.007	78.8	287	12.3	2.5	
Cd	111	1	No Gas	0.005	147.7	10	100.0	1	
Sr	88	1	No Gas	0.008	7.4	473	2.4	2.5	
Mo	95	1	No Gas	0.064	41.7	210	33.3	2.5	
Sn	118	1	No Gas	0.517	17.8	2934	12.0	5	
Sb	121	1	No Gas	0.114	21.0	1073	11.8	2.5	
Ba	137	1	No Gas	-0.020	-112.5	183	26.9	2.5	
Tl	205	1	No Gas	0.118	55.4	1377	53.3	1	
Tl	203	1	No Gas	0.114	50.4	563	47.5	1	
Pb	208	1	No Gas	0.028	11.7	857	6.0	2.5	
U	238	1	No Gas	0.008	50.7	147	44.4	2.5	
Ca	43	2	He	-25.846	-16.0	27	21.7	100	
Sb	121	2	He	0.093	11.4	603	6.3	2.5	
Ti	47	2	He	0.122	124.0	27	78.1	2.5	
Cu	63	1	No Gas	0.160	22.1	3591	6.1	2.5	
Se	82	1	No Gas	-0.581	-20.6	-31	-37.5	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	555587	1.23	547648	101.45	70	120	
Ge	72	2	He	507786	1.10	503154	100.92	70	120	
Ge	72	1	No Gas	1339318	3.15	1347493	99.39	70	120	
In	115	1	No Gas	1118032	1.53	1132392	98.73	70	120	
Bi	209	1	No Gas	902572	1.65	923104	97.78	70	120	



Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name CCV
 Data File Name 073_CCV.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:27:32-06:00
 Sample Type CCV
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	96.879	2.734	760603	2.66	100	96.9	90	110	
Be	9	1	No Gas	97.058	0.612	180270	0.75	100	97.1	90	110	
V	51	2	He	96.709	1.601	343854	0.66	100	96.7	90	110	
Cr	52	2	He	96.503	1.213	383888	0.26	100	96.5	90	110	
Fe	56	2	He	9811.798	1.790	34940034	0.99	10000	98.1	90	110	
Se	78	2	He	94.673	1.846	6257	1.59	100	94.7	90	110	
As	75	2	He	96.133	0.561	60618	1.08	100	96.1	90	110	
Ca	44	2	He	9690.849	1.334	251310	0.39	10000	96.9	90	110	
Na	23	2	He	9897.395	1.904	6495835	1.35	10000	99.0	90	110	
Mg	24	2	He	10144.103	2.410	3989406	1.69	10000	101.4	90	110	
K	39	2	He	9834.384	1.866	4929732	0.85	10000	98.3	90	110	
Mn	55	2	He	96.644	1.715	299484	0.73	100	96.6	90	110	
Co	59	2	He	98.733	1.674	561503	0.86	100	98.7	90	110	
Ni	60	2	He	97.094	0.734	142235	0.29	100	97.1	90	110	
Cu	63	2	He	95.793	1.675	376745	1.12	100	95.8	90	110	
Zn	66	2	He	96.828	1.729	79298	1.06	100	96.8	90	110	
Al	27	2	He	94.530	3.903	24348	2.83	100	94.5	90	110	
B	11	1	No Gas	488.106	3.166	421950	3.20	500	97.6	90	110	
Al	27	1	No Gas	95.988	0.749	712127	0.96	100	96.0	90	110	
Si	28	1	No Gas	488.792	3.359	1907040	2.28	5000	9.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	94.484	1.922	726891	0.85	100	94.5	90	110	
Cd	111	1	No Gas	96.333	1.977	145144	0.96	100	96.3	90	110	
Sr	88	1	No Gas	99.031	2.001	1396922	1.11	100	99.0	90	110	
Mo	95	1	No Gas	96.567	1.879	275206	0.87	100	96.6	90	110	
Sn	118	1	No Gas	95.930	1.568	419764	1.37	100	95.9	90	110	
Sb	121	1	No Gas	88.342	1.482	588043	0.83	100	88.3	90	110	CCV Main CR1-2 Failed
Ba	137	1	No Gas	96.722	1.341	210997	0.68	100	96.7	90	110	
Tl	205	1	No Gas	98.163	1.148	1161041	0.49	100	98.2	90	110	
Tl	203	1	No Gas	99.066	0.917	485140	1.66	100	99.1	90	110	
Pb	208	1	No Gas	91.996	1.092	1586342	1.23	100	92.0	90	110	
U	238	1	No Gas	97.911	1.698	1696246	0.64	100	97.9	90	110	
Ca	43	2	He	9647.356	3.689	14638	2.91	10000	96.5	90	110	
Sb	121	2	He	94.257	1.399	405475	0.41	100	94.3	90	110	
Ti	47	2	He	101.215	3.369	14304	2.39	100	101.2	90	110	
Cu	63	1	No Gas	91.666	1.287	601820	0.91	100	91.7	90	110	
Se	82	1	No Gas	90.492	4.322	8616	4.71	100	90.5	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	562927	0.14	547648	102.79	70	120	
Ge	72	2	He	529479	1.00	503154	105.23	70	120	
Ge	72	1	No Gas	1421204	1.58	1347493	105.47	70	120	
In	115	1	No Gas	1175768	1.09	1132392	103.83	70	120	
Bi	209	1	No Gas	937502	1.33	923104	101.56	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name CCB
 Data File Name 074_CCB.d
 Data Path Name D:\Agilent\ICPMH\1\DATA\012423D.b
 Acq Date Time 2023-01-24T16:29:24-06:00
 Sample Type CCB
 Dilution 1
 Comment
 ISTD Ref File Name 011CALB.d
 Sample QC Pass/Fail Fail
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.067	122.3	31031	1.7	0.5	
Be	9	1	No Gas	0.001	274.7	10	50.0	0.5	
V	51	2	He	0.090	10.3	2736	1.8	2.5	
Cr	52	2	He	0.188	35.3	2760	10.0	2.5	
Fe	56	2	He	0.957	16.3	26446	0.8	100	
Se	78	2	He	-0.153	-363.3	455	7.5	2	
As	75	2	He	0.093	43.4	191	11.4	2.5	
Ca	44	2	He	-7.975	-69.6	817	17.8	100	
Na	23	2	He	61.575	2.9	139006	0.6	100	
Mg	24	2	He	0.506	15.2	517	6.8	100	
K	39	2	He	-3.518	-152.8	111955	2.1	100	
Mn	55	2	He	0.127	14.8	763	7.7	2.5	
Co	59	2	He	0.006	123.9	97	41.8	2.5	
Ni	60	2	He	0.107	14.8	247	10.2	2.5	
Cu	63	2	He	0.038	78.9	1677	6.3	2	
Zn	66	2	He	-0.187	-20.3	610	5.7	2.5	
Al	27	2	He	-0.184	-245.2	653	15.3	5	
B	11	1	No Gas	23.741	14.4	24427	12.2	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.345	20.9	20632	0.2	5	
Si	28	1	No Gas	-2.822	-69.7	236770	0.0	10	
Ag	107	1	No Gas	0.000	2124.1	240	26.0	2.5	
Cd	111	1	No Gas	0.002	170.0	7	86.6	1	
Sr	88	1	No Gas	0.005	80.6	427	11.6	2.5	
Mo	95	1	No Gas	0.046	13.9	160	10.8	2.5	
Sn	118	1	No Gas	0.500	8.8	2864	6.5	5	
Sb	121	1	No Gas	0.172	14.5	1407	12.6	2.5	
Ba	137	1	No Gas	-0.032	-30.8	157	13.3	2.5	
Tl	205	1	No Gas	0.085	47.0	1003	45.9	1	
Tl	203	1	No Gas	0.090	50.1	450	48.1	1	
Pb	208	1	No Gas	0.022	30.6	750	13.5	2.5	
U	238	1	No Gas	0.006	34.6	120	30.0	2.5	
Ca	43	2	He	-11.657	-176.8	47	61.9	100	
Sb	121	2	He	0.151	12.3	833	9.7	2.5	
Ti	47	2	He	0.000	235.4	10	0.0	2.5	
Cu	63	1	No Gas	0.052	73.5	2854	5.7	2.5	
Se	82	1	No Gas	-0.543	-99.1	-28	-170.4	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	537876	1.01	547648	98.22	70	120	
Ge	72	2	He	503920	1.25	503154	100.15	70	120	
Ge	72	1	No Gas	1308534	2.52	1347493	97.11	70	120	
In	115	1	No Gas	1117571	0.15	1132392	98.69	70	120	
Bi	209	1	No Gas	902796	1.27	923104	97.80	70	120	

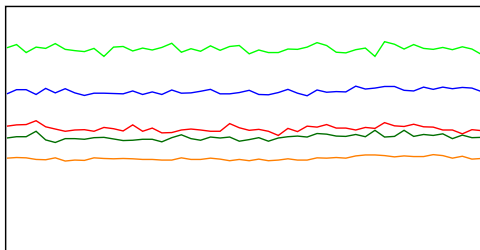


Tune Check Report

Operator Name ALSHS NoUser
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\012423A.b
Acq. Date-Time 01/24/2023 09:41:58
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	2548	25480.69		
24	10000	8333	83325.97		
59	20000	13222	132224.39		
115	50000	19432	194318.95		
208	20000	9487	94867.11		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.376	5.000	
24	1.643	5.000	
59	1.604	5.000	
115	1.761	5.000	
208	2.271	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	0.100		
59	0.300		
115	1.200		
208	3.500		

Oxide/Doubly Charged Ratio

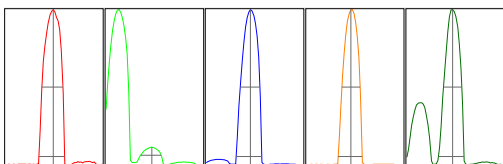
Oxide 156 / 140 0.427 %

Doubly Charged 70 / 140 3.100 %



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	2524.60	9.00	8.90 - 9.10	
24	8571.84	23.95	23.90 - 24.10	
59	13855.78	58.90	58.90 - 59.10	
115	19911.71	114.90	114.90 - 115.10	
208	9496.47	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.785		
24	0.62			
59	0.60	0.782		
115	0.56	0.732		
208	0.56	0.781		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.25 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	9.9 V	Deflect	13.0 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.2 mm
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EM

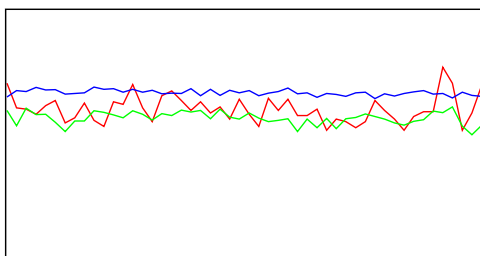
Discriminator	4.5 mV	Analog HV	2163 V	Pulse HV	1224 V
---------------	--------	-----------	--------	----------	--------

[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	120	1200.65		
24	1000	564	5640.34		
59	10000	6673	66725.99		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	9.219	5.000	Fail
24	4.635	5.000	
59	1.699	5.000	

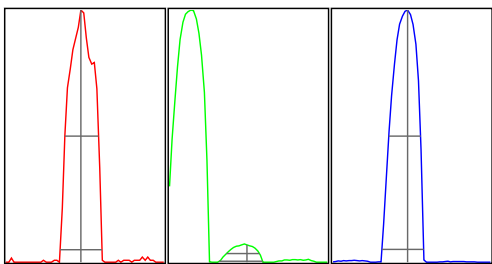
Mass	Background	Background (Required)	Background (Flag)
9	0.500		
24	0.100		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide 156 / 140 0.307 %

Doubly Charged 70 / 140 1.689 %

Resolution/Axis



Integration Time [sec] 0.1

Acquisition Time [sec] 22.24

Y Axis Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	122.51	8.95	8.90 - 9.10	
24	564.13	24.00	23.90 - 24.10	
59	6920.98	58.95	58.90 - 59.10	
Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.783		
24	0.61	0.814		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.779		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.25 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	9.9 V	Deflect	0.6 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	3.6 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2163 V	Pulse HV	1224 V
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February 07, 2023

Service Request No:R2300356

Corey Grandits
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: BHATE LHAAP / Site 58

Dear Corey,

Enclosed are the results of the sample(s) submitted to our laboratory January 13, 2023
For your reference, these analyses have been assigned our service request number **R2300356**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7576. You may also contact me via email at Nicole.Mansen@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Nicole Mansen
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental



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Table of Contents

CoverLetter	1
Table of Contents	2
Narrative Documents	4
Case Narrative	5
Sample Receipt Information	6
Sample Cross-Reference	7
Chain Of Custody	8
Internal Chain of Custody	10
Miscellaneous Forms	11
Qualifiers	12
Acronyms	13
Non-Certified Analytes	14
Analyst Summary	15
Prep Method Inorganic	17
Sample Results	18
Semivolatile Organic Compounds by GC	19
Organic Acids - Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography	
35AWW11-011223 - Semivolatile GC	20
35AWW20-011223 - Semivolatile GC	21
LHSMW07-011223 - Semivolatile GC	22
35AWW06-011223 - Semivolatile GC	23
35AWW23-011223 - Semivolatile GC	24

Table of Contents (continued)

35AWW19-011223 - Semivola GC	25
QC Summary Forms	26
Semivolatile Organic Compounds by GC	27
Organic Acids - Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography	
RQ2301032-10 35AWW19-011223 - DMS Semivola GC	28
MB Summary Semivola GC	29
Method Blank - Semivola GC	30
LCS Summary Semivola GC	31
RQ2301032-04 - DLCS Semivola GC	32
Raw Data	33
Semivolatile Organic Compounds by GC	34
Organic Acids - OrgAcid DOD28	
Form 1s	
35AWW11-011223 - Semivola GC	35
35AWW20-011223 - Semivola GC	36
LHSMW07-011223 - Semivola GC	37
35AWW06-011223 - Semivola GC	38
35AWW23-011223 - Semivola GC	39
35AWW19-011223 - Semivola GC	40
Raw Data	41
ICAL Summary	150
ICV Summary	152
RQ2301032-01 - CCV Semivola GC	153
RQ2301032-05 - CCV Semivola GC	154
RQ2301032-06 - CCV Semivola GC	155
RQ2301032-07 - CCV Semivola GC	156
RQ2301032-08 - CCV Semivola GC	157
RQ2301032-11 - CCV Semivola GC	158
Run Log	159
Run Log Sheets	161



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58
Sample Matrix: Water

Service Request: R2300356
Date Received: 01/13/2023

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.

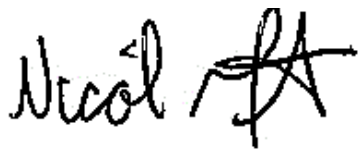
Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 01/13/2023. 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.

Semivoa GC:

Method Organic Acids, 01/26/2023: The matrix spike recovery of one or more of the spiked analytes was outside of control limits. All other spike QC within acceptable limits. No detection above the Method Reporting Limit (MRL) in the parent sample. Matrix Spike was not required for sample. No further action is necessary.

Approved by



Date

01/30/2023



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request:R2300356

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2300356-001	35AWW11-011223	1/12/2023	0725
R2300356-002	35AWW20-011223	1/12/2023	0815
R2300356-003	LHSMW07-011223	1/12/2023	0905
R2300356-004	35AWW06-011223	1/12/2023	0955
R2300356-005	35AWW23-011223	1/12/2023	1045
R2300356-006	35AWW19-011223	1/12/2023	1135



**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): _____

UMS Number: _____

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 58

Client Name:

Collected by: **Scott Beesinger**[illegible]

COMMENTS:

STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed) Date Time
 1. Scott Delsayon 1/12/23 1330

Received by (signed) Sarkis Date 1/13/23 Time 930

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped _____ No. _____

Method of Shipment: _____

Fed Ex Airbill Number:

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

ATTN: Dane Wacasey Lab Recipient: Delivery Date/Time:

- 1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
- 2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-C) Sample, FD = Field Duplicate (-C) Samples, FR = Field Replicate (-B) Samples, EB = Equipment Blank (-C) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-C) Samples
- 3.) Sample Number: Unique sample number taken from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, [I 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 (ddmmmy) 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

R2300356
ALS Group USA, Corp.
BHATE LHAAP / Site 69

5





Cooler Receipt and Preservation Check Form

R2300356

5

ALS Group USA, Corp.
SHATE LHAAP / SH-55

Project/Client

Folder Number

Cooler received on 1/13/23

by: SES

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y	N
2	Custody papers properly completed (ink, signed)?	Y	N
3	Did all bottles arrive in good condition (unbroken)?	Y	N
4	Circle: Wet Ice Dry Ice Gel packs present?	Y	N

5a	Perchlorate samples have required headspace?			Y	N	NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?			Y	N	NA
6	Where did the bottles originate?			ALS/ROC CLIENT		
7	Soil VOA received as:	Bulk	Encore	5035set	NA	

8. Temperature Readings

Date: 1/13/23 Time: 943

ID: IR#7 IR#11

From: Temp Blank

Sample Bottle

Observed Temp (°C)	1.2							
Within 0-6°C?	Y	N	Y	N	Y	N	Y	N
If <0°C, were samples frozen?	Y	N	Y	N	Y	N	Y	N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location: R002 by 1/13/23 on SES at 945

5035 samples placed in storage location: by on at within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 1/13/23 Time: 1535 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH	Yes No						
≤2		HNO ₃							
≤2		H ₂ SO ₄							
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate							
		HCl	** **						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 81001-C2781

Explain all Discrepancies/ Other Comments:

H₃PO₄ lot: 221499 exp 5/23

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

PC Secondary Review:

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Internal Chain of Custody Report

Client: ALS Group USA, Corp.
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2300356-001.01	Organic Acids				
		1/13/2023	1534	SMO / GESMERIAN	
		1/13/2023	1537	R-002 / GESMERIAN	
R2300356-002.01	Organic Acids				
		1/13/2023	1534	SMO / GESMERIAN	
		1/13/2023	1537	R-002 / GESMERIAN	
R2300356-003.01	Organic Acids				
		1/13/2023	1534	SMO / GESMERIAN	
		1/13/2023	1537	R-002 / GESMERIAN	
R2300356-004.01	Organic Acids				
		1/13/2023	1534	SMO / GESMERIAN	
		1/13/2023	1537	R-002 / GESMERIAN	
R2300356-005.01	Organic Acids				
		1/13/2023	1534	SMO / GESMERIAN	
		1/13/2023	1537	R-002 / GESMERIAN	
R2300356-006.01	Organic Acids				
		1/13/2023	1534	SMO / GESMERIAN	
		1/13/2023	1537	R-002 / GESMERIAN	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for Accreditations¹



NELAP State Accreditation #
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP State Accreditation #
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island ID #LAO00333



¹ Analyses were performed according to the current DoD Quality Systems Manual, our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current requirements, where applicable, except as noted in the case narrative. This report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

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
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.

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Lactic Acid
Organic Acids	Water	Propionic Acid
Organic Acids	Water	Pyruvic Acid

Analyst Summary report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356

Sample Name: 35AWW11-011223
Lab Code: R2300356-001
Sample Matrix: Water

Date Collected: 01/12/23
Date Received: 01/13/23

Analysis Method
Organic Acids

Extracted/Digested By

Analyzed By
AFELSER

Sample Name: 35AWW20-011223
Lab Code: R2300356-002
Sample Matrix: Water

Date Collected: 01/12/23
Date Received: 01/13/23

Analysis Method
Organic Acids

Extracted/Digested By

Analyzed By
AFELSER

Sample Name: LHSMW07-011223
Lab Code: R2300356-003
Sample Matrix: Water

Date Collected: 01/12/23
Date Received: 01/13/23

Analysis Method
Organic Acids

Extracted/Digested By

Analyzed By
AFELSER

Sample Name: 35AWW06-011223
Lab Code: R2300356-004
Sample Matrix: Water

Date Collected: 01/12/23
Date Received: 01/13/23

Analysis Method
Organic Acids

Extracted/Digested By

Analyzed By
AFELSER

Sample Name: 35AWW23-011223
Lab Code: R2300356-005
Sample Matrix: Water

Date Collected: 01/12/23
Date Received: 01/13/23

Analysis Method
Organic Acids

Extracted/Digested By

Analyzed By
AFELSER

Analyst Summary report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356

Sample Name: 35AWW19-011223
Lab Code: R2300356-006
Sample Matrix: Water

Date Collected: 01/12/23
Date Received: 01/13/23

Analysis Method
Organic Acids

Extracted/Digested By

Analyzed By
AFELSER



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

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Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 07:25
Date Received: 01/13/23 09:30

Sample Name: 35AWW11-011223
Lab Code: R2300356-001

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 15:18	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 15:18	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 15:18	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 15:18	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 15:18	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 08:15
Date Received: 01/13/23 09:30

Sample Name: 35AWW20-011223
Lab Code: R2300356-002

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 16:08	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 16:08	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 16:08	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 16:08	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 16:08	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 09:05
Date Received: 01/13/23 09:30

Sample Name: LHSMW07-011223
Lab Code: R2300356-003

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 16:53	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 16:53	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 16:53	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 16:53	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 16:53	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 09:55
Date Received: 01/13/23 09:30

Sample Name: 35AWW06-011223
Lab Code: R2300356-004

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 18:29	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 18:29	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 18:29	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 18:29	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 18:29	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 10:45
Date Received: 01/13/23 09:30

Sample Name: 35AWW23-011223
Lab Code: R2300356-005

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 19:14	
Acetic Acid	0.88 J	4.0	2.0	0.56	1	01/26/23 19:14	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 19:14	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 19:14	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 19:14	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 11:35
Date Received: 01/13/23 09:30

Sample Name: 35AWW19-011223
Lab Code: R2300356-006

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 20:03	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 20:03	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 20:03	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 20:03	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 20:03	



QC Summary Forms

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QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23
Date Received: 01/13/23
Date Analyzed: 01/26/23

Duplicate Matrix Spike Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: 35AWW19-011223
Lab Code: R2300356-006
Analysis Method: Organic Acids

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2301032-09			Duplicate Matrix Spike RQ2301032-10			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	ND U	22.0	20.0	110	23.0	20.0	115	73-122	4	30
Acetic Acid	ND U	20.6	20.0	103	21.2	20.0	106	80-130	3	30
Butanoic Acid (Butyric Acid)	ND U	18.7	20.0	94	20.4	20.0	102	86-128	8	30
Lactic Acid	ND U	22.7	20.0	114	23.6	20.0	118 *	81-114	4	30
Propionic Acid	ND U	22.9	20.0	115	21.7	20.0	108	63-153	5	30

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.

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Analyzed: 01/26/23 05:53

Method Blank Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Method Blank **Instrument ID:** R-HPLC-05
Lab Code: RQ2301032-02 **File ID:** I:\ACQUDATA\HPLC05\data\012523\A0009412.D\
Analysis Method: Organic Acids **Analysis Lot:** 792813

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2301032-03	I:\ACQUDATA\HPLC05\data\012523\A0009413.D\	01/26/23 06:42
Duplicate Lab Control Sample	RQ2301032-04	I:\ACQUDATA\HPLC05\data\012523\A0009414.D\	01/26/23 07:27
35AWW11-011223	R2300356-001	I:\ACQUDATA\HPLC05\data\012523\A0009424.D\	01/26/23 15:18
35AWW20-011223	R2300356-002	I:\ACQUDATA\HPLC05\data\012523\A0009425.D\	01/26/23 16:08
LHSMW07-011223	R2300356-003	I:\ACQUDATA\HPLC05\data\012523\A0009426.D\	01/26/23 16:53
35AWW06-011223	R2300356-004	I:\ACQUDATA\HPLC05\data\012523\A0009428.D\	01/26/23 18:29
35AWW23-011223	R2300356-005	I:\ACQUDATA\HPLC05\data\012523\A0009429.D\	01/26/23 19:14
35AWW19-011223	R2300356-006	I:\ACQUDATA\HPLC05\data\012523\A0009430.D\	01/26/23 20:03
35AWW19-011223MS	RQ2301032-09	I:\ACQUDATA\HPLC05\data\012523\A0009432.D\	01/26/23 21:38
35AWW19-011223DMS	RQ2301032-10	I:\ACQUDATA\HPLC05\data\012523\A0009433.D\	01/26/23 22:23

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2301032-02

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 05:53	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 05:53	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 05:53	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 05:53	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 05:53	

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Analyzed: 01/26/23 06:42

Lab Control Sample Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: Lab Control Sample **Instrument ID:** R-HPLC-05
Lab Code: RQ2301032-03 **File ID:** I:\ACQUDATA\HPLC05\data\012523\A0009413.D\
Analysis Method: Organic Acids **Analysis Lot:** 792813

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2301032-02	I:\ACQUDATA\HPLC05\data\012523\A0009412.D\	01/26/23 05:53
Duplicate Lab Control Sample	RQ2301032-04	I:\ACQUDATA\HPLC05\data\012523\A0009414.D\	01/26/23 07:27
35AWW11-011223	R2300356-001	I:\ACQUDATA\HPLC05\data\012523\A0009424.D\	01/26/23 15:18
35AWW20-011223	R2300356-002	I:\ACQUDATA\HPLC05\data\012523\A0009425.D\	01/26/23 16:08
LHSMW07-011223	R2300356-003	I:\ACQUDATA\HPLC05\data\012523\A0009426.D\	01/26/23 16:53
35AWW06-011223	R2300356-004	I:\ACQUDATA\HPLC05\data\012523\A0009428.D\	01/26/23 18:29
35AWW23-011223	R2300356-005	I:\ACQUDATA\HPLC05\data\012523\A0009429.D\	01/26/23 19:14
35AWW19-011223	R2300356-006	I:\ACQUDATA\HPLC05\data\012523\A0009430.D\	01/26/23 20:03
35AWW19-011223MS	RQ2301032-09	I:\ACQUDATA\HPLC05\data\012523\A0009432.D\	01/26/23 21:38
35AWW19-011223DMS	RQ2301032-10	I:\ACQUDATA\HPLC05\data\012523\A0009433.D\	01/26/23 22:23

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Analyzed: 01/26/23

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Lab Control Sample RQ2301032-03					Duplicate Lab Control Sample RQ2301032-04					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pyruvic Acid	Organic Acids	22.0	20.0	110	22.0	20.0	110	73-122	<1	30
Acetic Acid	Organic Acids	20.6	20.0	103	20.6	20.0	103	80-130	<1	30
Butanoic Acid (Butyric Acid)	Organic Acids	21.5	20.0	107	18.7	20.0	93	86-128	14	30
Lactic Acid	Organic Acids	22.4	20.0	112	22.5	20.0	113	81-114	<1	30
Propionic Acid	Organic Acids	22.1	20.0	110	22.2	20.0	111	63-153	<1	30



Raw Data

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Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 07:25
Date Received: 01/13/23 09:30

Sample Name: 35AWW11-011223
Lab Code: R2300356-001

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 15:18	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 15:18	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 15:18	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 15:18	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 15:18	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 08:15
Date Received: 01/13/23 09:30

Sample Name: 35AWW20-011223
Lab Code: R2300356-002

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 16:08	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 16:08	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 16:08	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 16:08	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 16:08	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 09:05
Date Received: 01/13/23 09:30

Sample Name: LHSMW07-011223
Lab Code: R2300356-003

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 16:53	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 16:53	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 16:53	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 16:53	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 16:53	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 09:55
Date Received: 01/13/23 09:30

Sample Name: 35AWW06-011223
Lab Code: R2300356-004

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 18:29	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 18:29	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 18:29	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 18:29	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 18:29	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 10:45
Date Received: 01/13/23 09:30

Sample Name: 35AWW23-011223
Lab Code: R2300356-005

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 19:14	
Acetic Acid	0.88 J	4.0	2.0	0.56	1	01/26/23 19:14	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 19:14	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 19:14	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 19:14	

Analytical Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150
Sample Matrix: Water

Service Request: R2300356
Date Collected: 01/12/23 11:35
Date Received: 01/13/23 09:30

Sample Name: 35AWW19-011223
Lab Code: R2300356-006

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
Pyruvic Acid	ND U	0.20	0.10	0.052	1	01/26/23 20:03	
Acetic Acid	ND U	4.0	2.0	0.56	1	01/26/23 20:03	
Butanoic Acid (Butyric Acid)	ND U	2.0	1.0	0.77	1	01/26/23 20:03	
Lactic Acid	ND U	2.0	1.0	0.41	1	01/26/23 20:03	
Propionic Acid	ND U	4.0	1.5	1.1	1	01/26/23 20:03	

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009424.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 00:06:12~~ Time/Date Error AF 1/27/23
Operator : AFelser 26-Jan-2023, 15:18
Sample : R2300356-001
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:09:00 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	0.000	0	N.D.	ppm
2) T Pyruvic acid	0.000	0	N.D.	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm
4) T Acetic Acid	0.000	0	N.D.	ppm
5) T Propionic Acid	0.000	0	N.D.	ppm
6) T Butyric Acid	0.000	0	N.D.	ppm d

(f)=RT Delta > 1/2 Window

(m)=manual int.

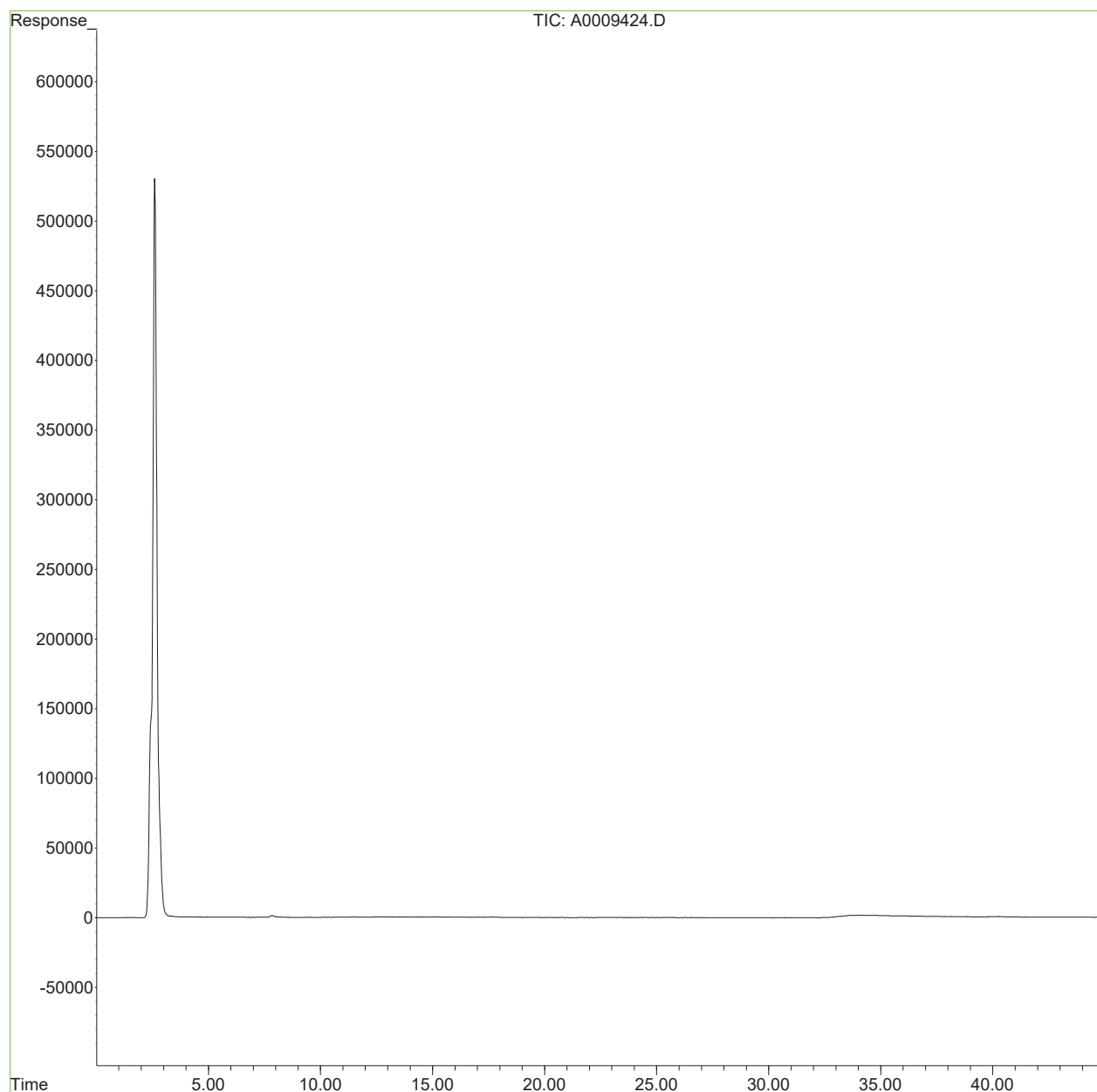
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009424.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:06:12
Operator : AFelser
Sample : R2300356-001
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:09:00 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synerg hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009425.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 16:08:02
Operator : AFelser
Sample : R2300356-002
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:09:02 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	0.000	0	N.D.	ppm
2) T Pyruvic acid	0.000	0	N.D.	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm d
4) T Acetic Acid	0.000	0	N.D.	ppm
5) T Propionic Acid	0.000	0	N.D.	ppm
6) T Butyric Acid	0.000	0	N.D.	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

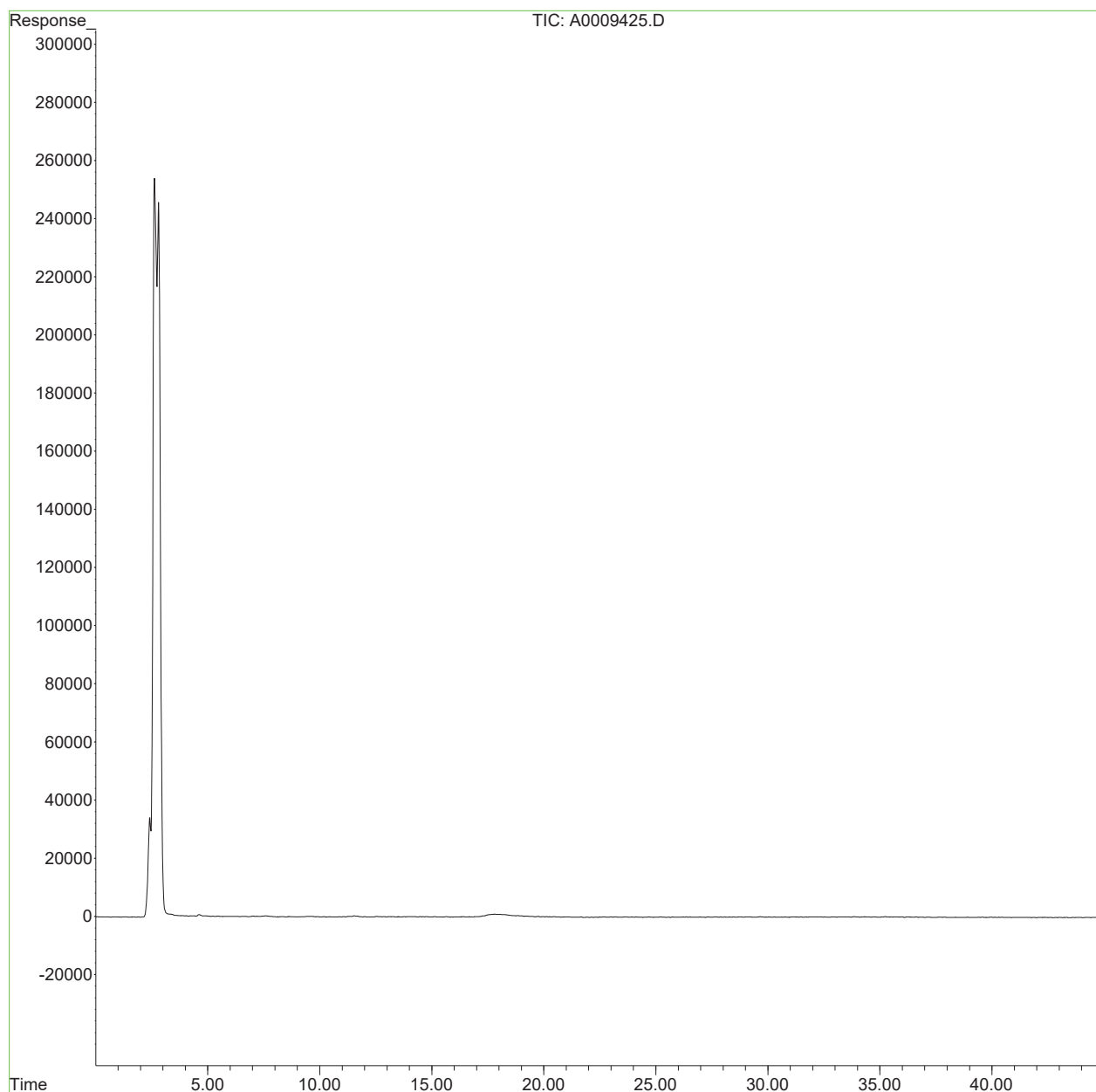
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009425.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 16:08:02
Operator : AFelser
Sample : R2300356-002
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:09:02 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009426.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 02:48:21~~ Time/Date Error AF 1/27/23
Operator : AFelser 26-Jan-2023, 16:53
Sample : R2300356-003
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:09:04 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	0.000	0	N.D.	ppm
2) T Pyruvic acid	0.000	0	N.D.	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm d
4) T Acetic Acid	0.000	0	N.D.	ppm
5) T Propionic Acid	0.000	0	N.D.	ppm
6) T Butyric Acid	0.000	0	N.D.	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

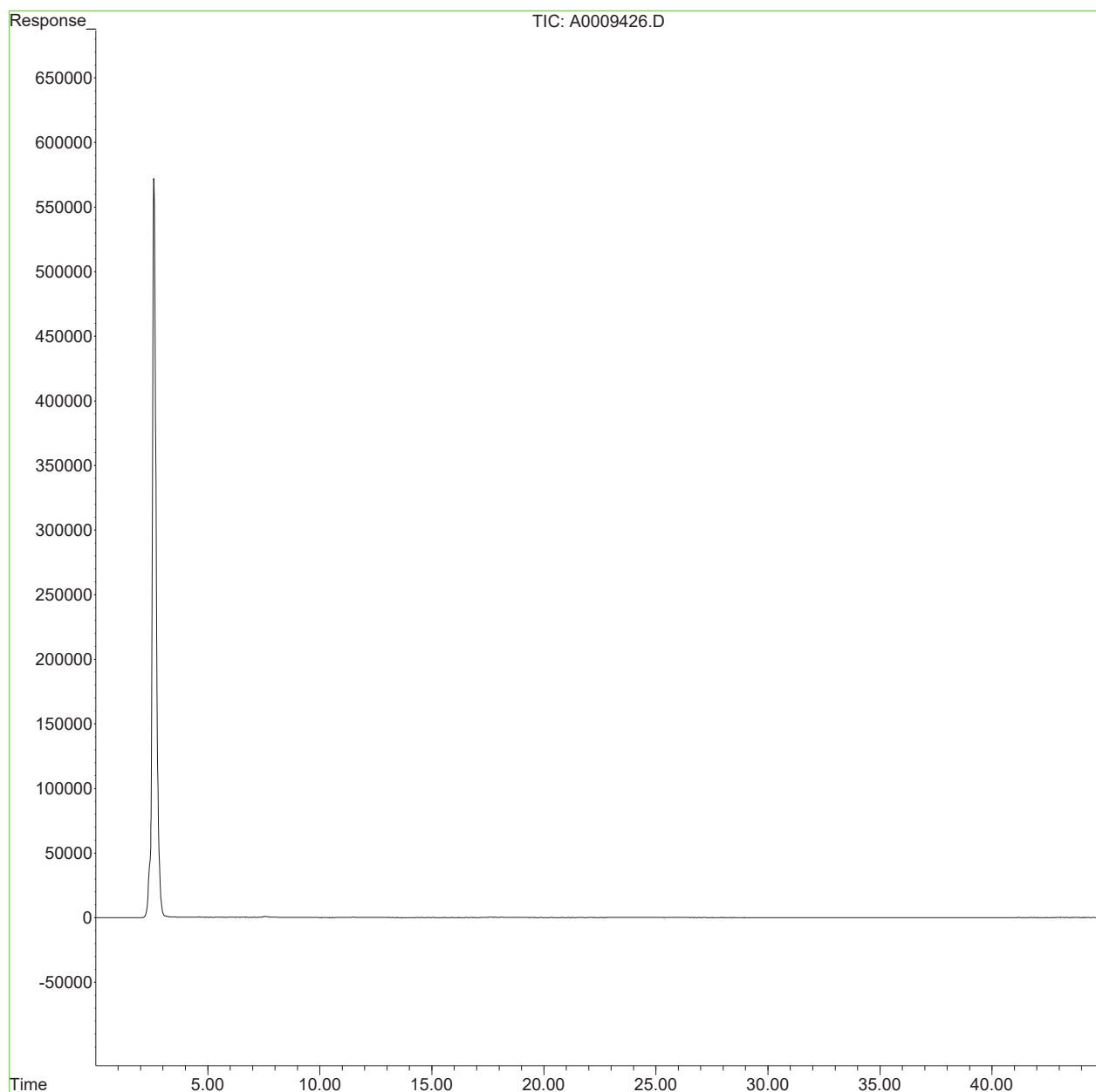
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009426.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:21
Operator : AFelser
Sample : R2300356-003
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:09:04 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synerg hydro rp
Signal Info : UV wave 210



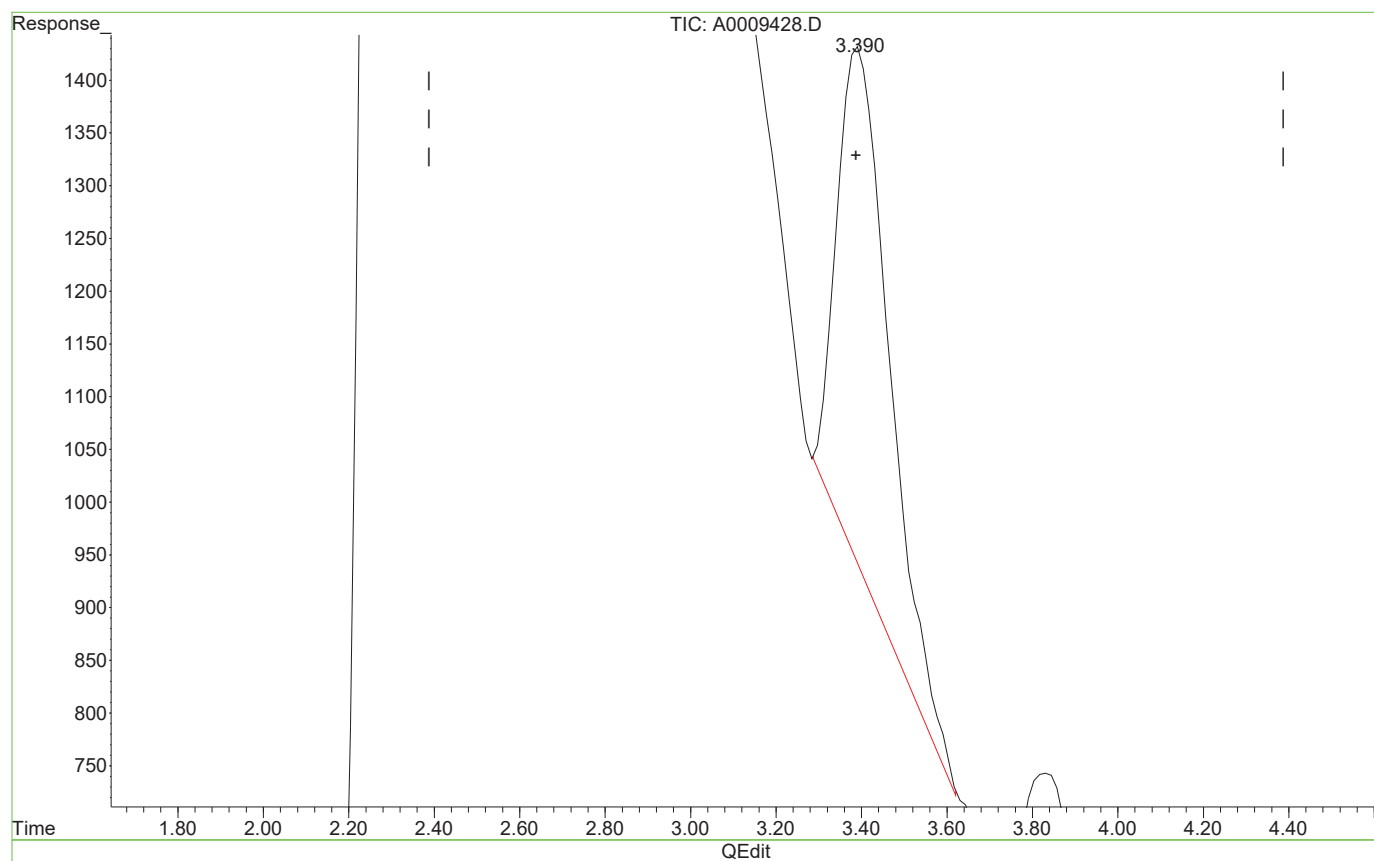
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009428.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 18:29:29
Operator : AFelser
Sample : R2300356-004
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:02 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)
3.390min 0.444 ppm m
response 42259

Manual Integration:
After
Poor integration.
01/27/23

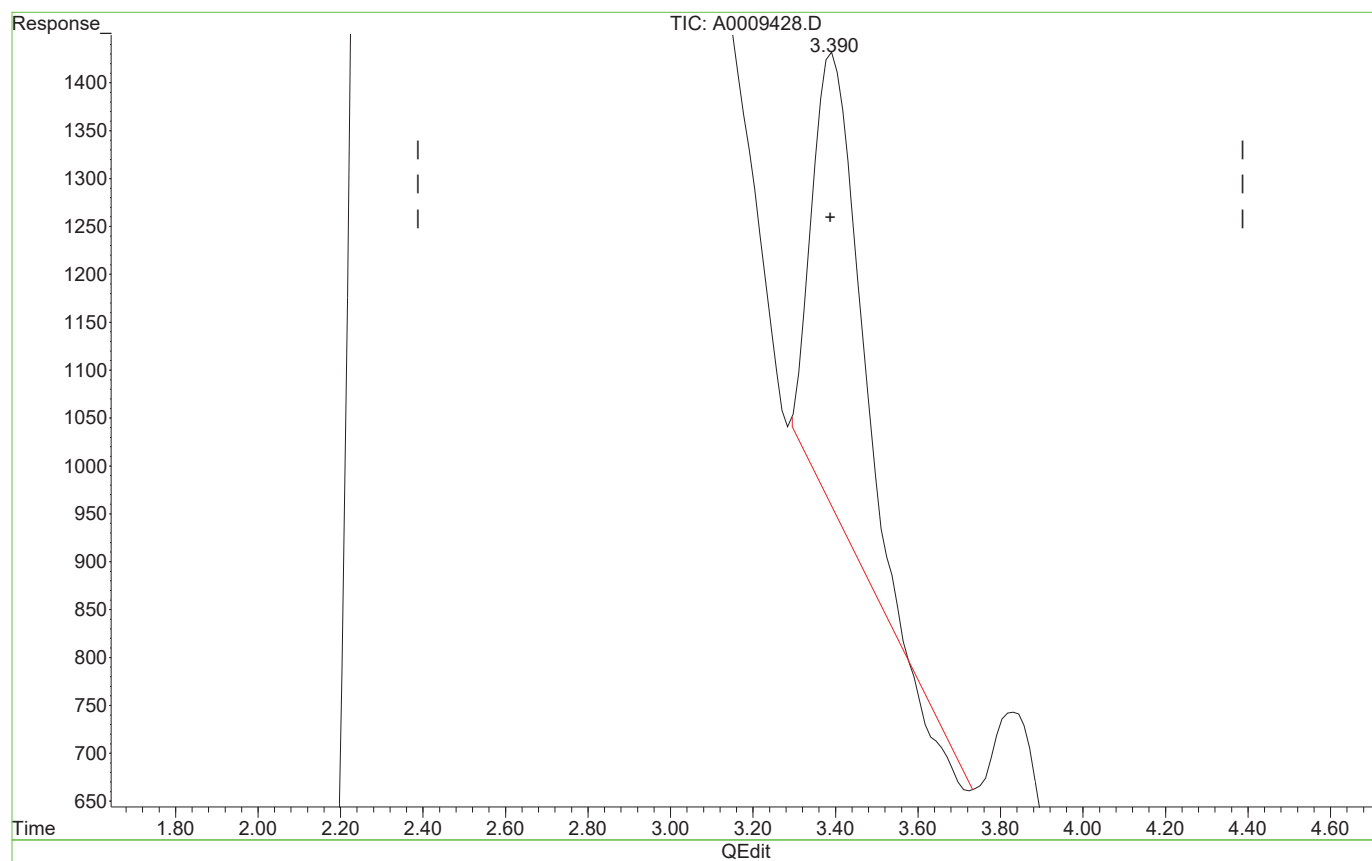
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009428.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 18:29:29
Operator : AFelser
Sample : R2300356-004
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:02 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synerg hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)
3.395min 0.394 ppm
response 37589

Manual Integration:
Before

01/27/23

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009428.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 18:29:29
Operator : AFelser
Sample : R2300356-004
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:02 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	3.390	42259	0.444	ppm m
2) T Pyruvic acid	0.000	0	N.D.	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm
4) T Acetic Acid	0.000	0	N.D.	ppm
5) T Propionic Acid	0.000	0	N.D.	ppm
6) T Butyric Acid	0.000	0	N.D.	ppm d

(f)=RT Delta > 1/2 Window

(m)=manual int.

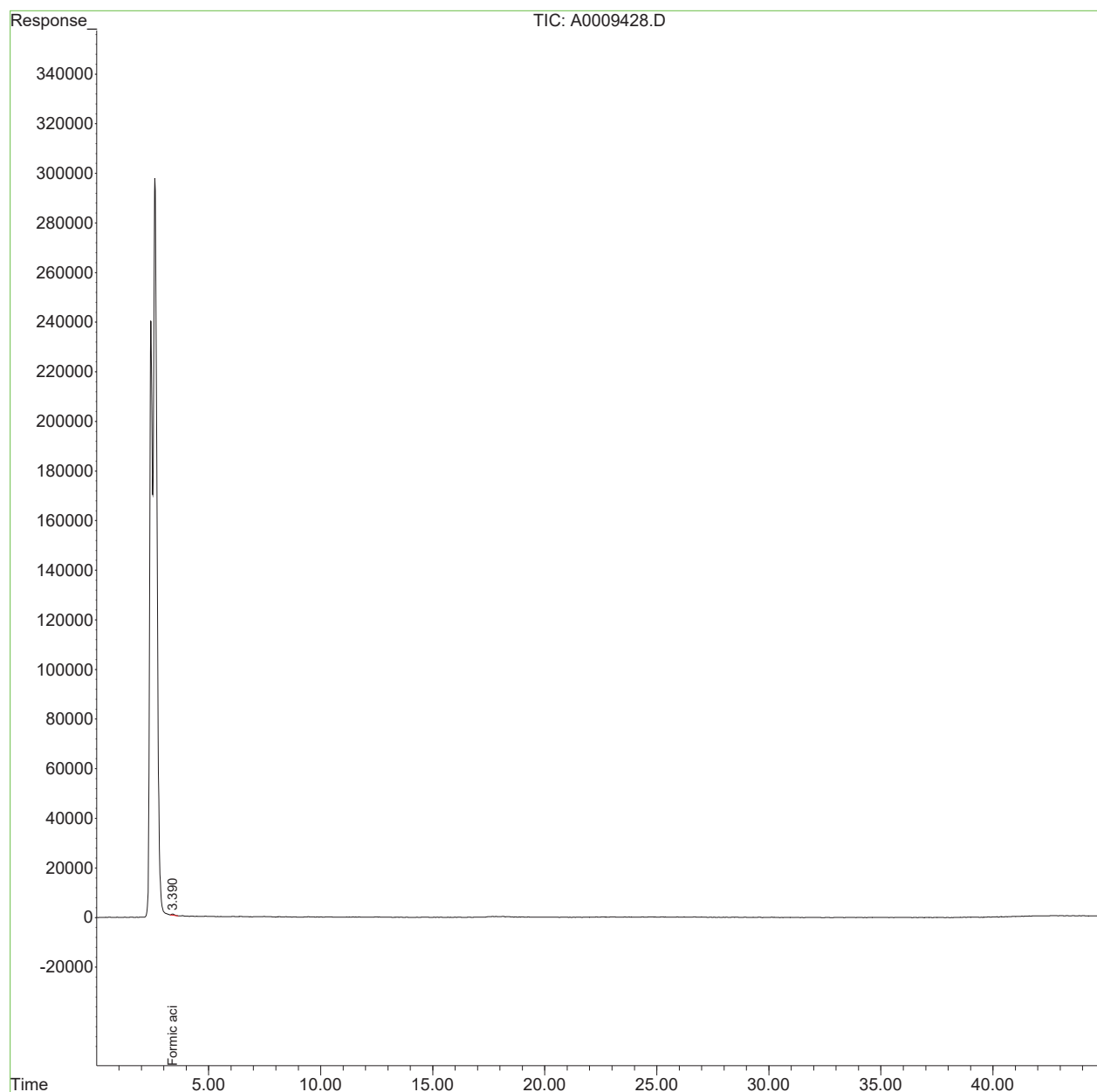
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009428.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 18:29:29
Operator : AFelser
Sample : R2300356-004
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:02 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



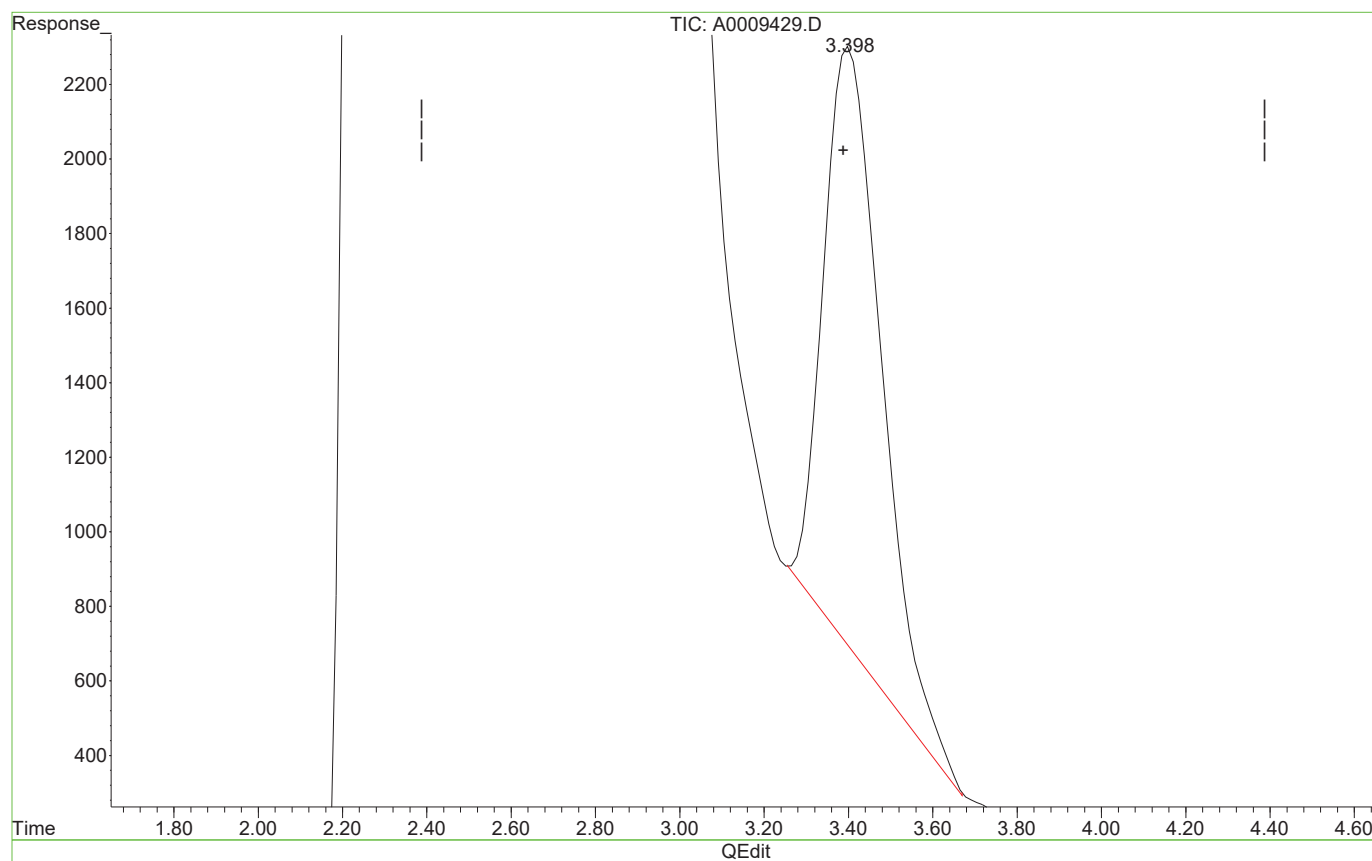
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009429.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:47:55
Operator : AFelser
Sample : R2300356-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:04 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)
3.398min 1.626 ppm m
response 154956

Manual Integration:
After
Poor integration.
01/27/23

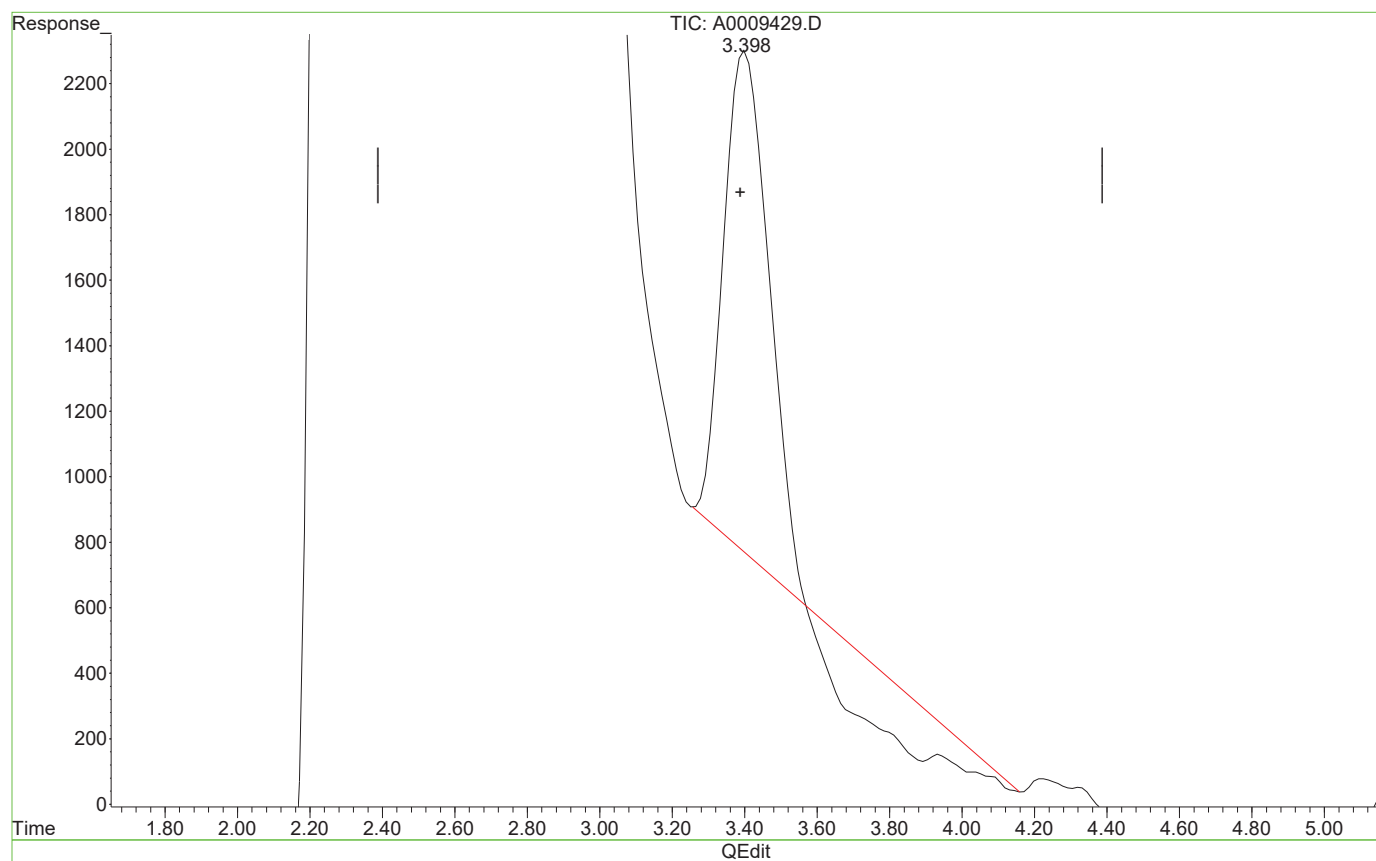
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009429.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:47:55
Operator : AFelser
Sample : R2300356-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:04 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(1) Formic acid (t)
3.403min 1.007 ppm
response 95930

Manual Integration:
Before

01/27/23

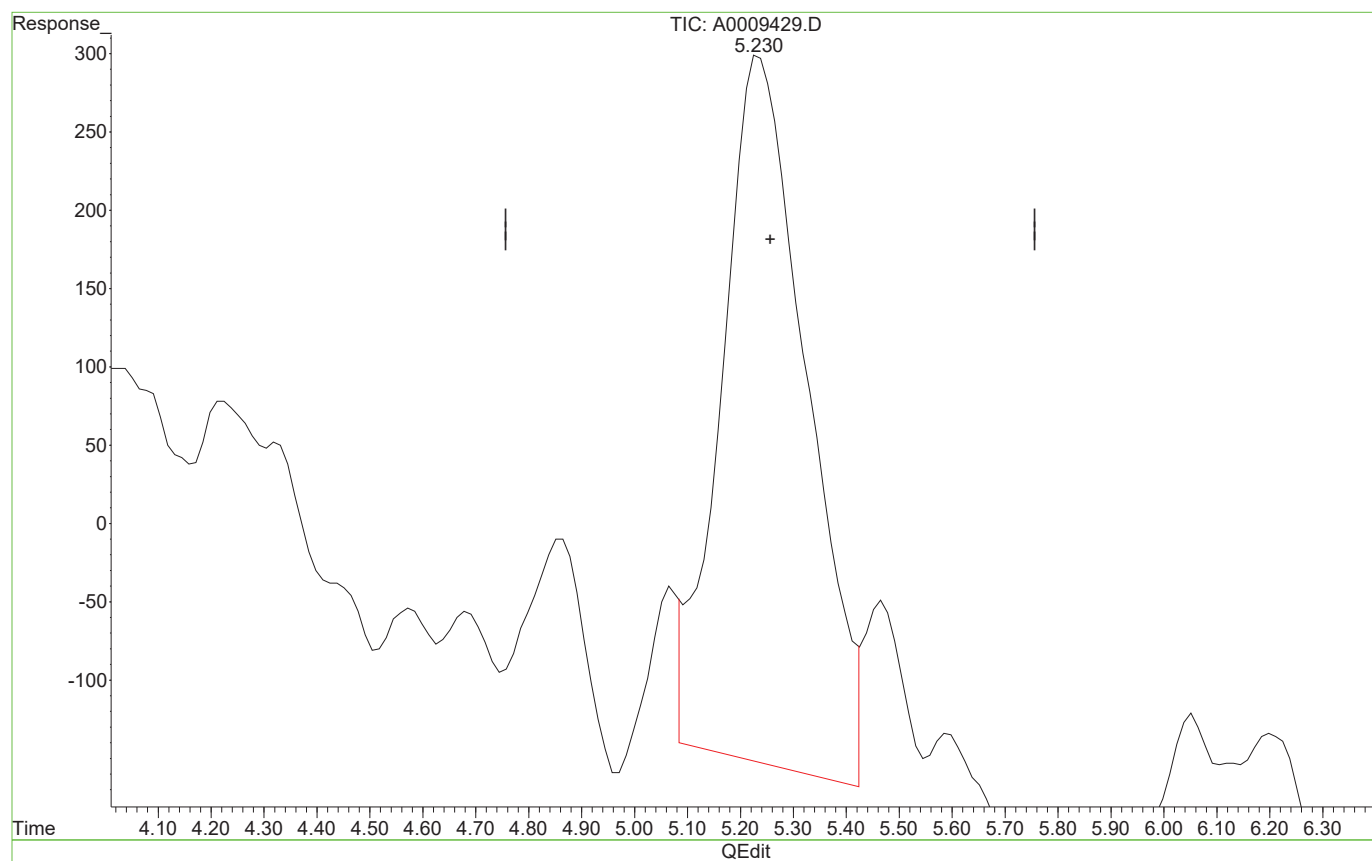
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009429.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:47:55
Operator : AFelser
Sample : R2300356-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:04 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synerg hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)
5.230min 0.883 ppm m
response 50253

Manual Integration:
After
Poor integration.
01/27/23

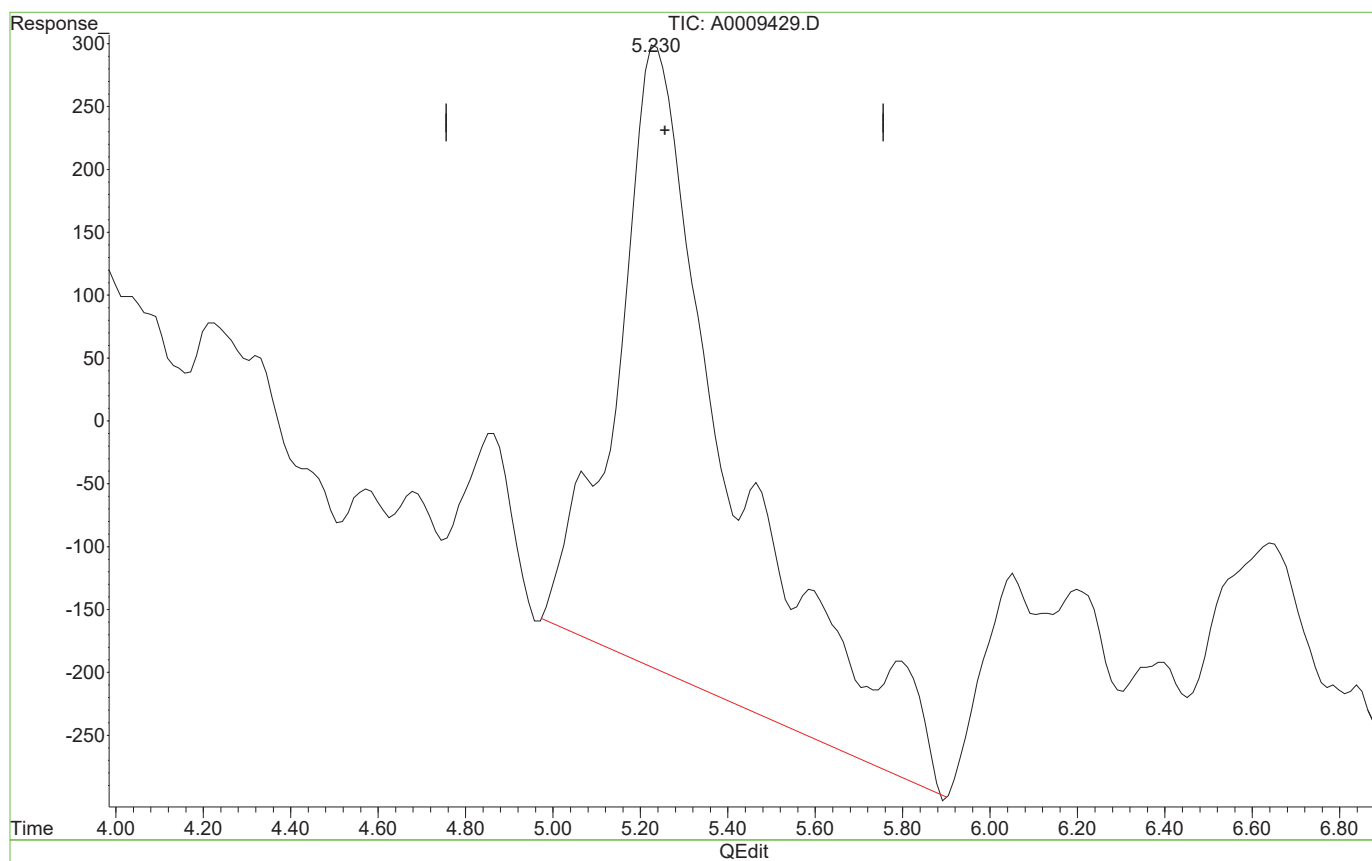
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009429.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:47:55
Operator : AFelser
Sample : R2300356-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:04 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)
5.240min 1.628 ppm
response 92690

Manual Integration:
Before

01/27/23

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009429.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 17:47:55~~ Time/Date Error AF 1/27/23
Operator : AFelser 26-Jan-2023, 19:14
Sample : R2300356-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:04 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	3.398	154956	1.626	ppm m
2) T Pyruvic acid	0.000	0	N.D.	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm
4) T Acetic Acid	5.230	50253	0.883	ppm m
5) T Propionic Acid	0.000	0	N.D.	ppm
6) T Butyric Acid	0.000	0	N.D.	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

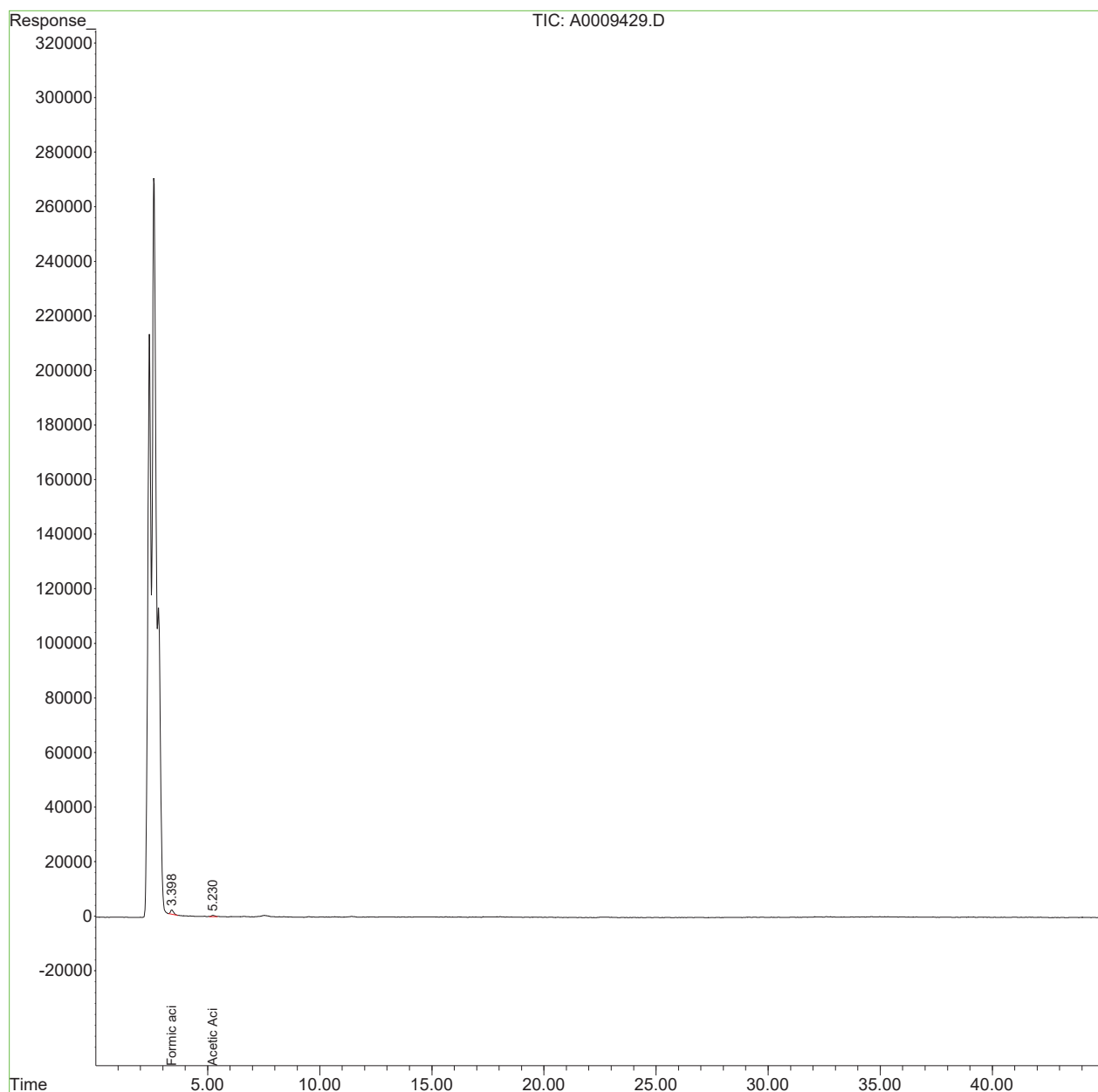
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009429.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:47:55
Operator : AFelser
Sample : R2300356-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:04 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009430.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 20:03:51
Operator : AFelser
Sample : R2300356-006
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:06 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	0.000	0	N.D.	ppm
2) T Pyruvic acid	0.000	0	N.D.	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm
4) T Acetic Acid	0.000	0	N.D.	ppm
5) T Propionic Acid	0.000	0	N.D.	ppm d
6) T Butyric Acid	0.000	0	N.D.	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

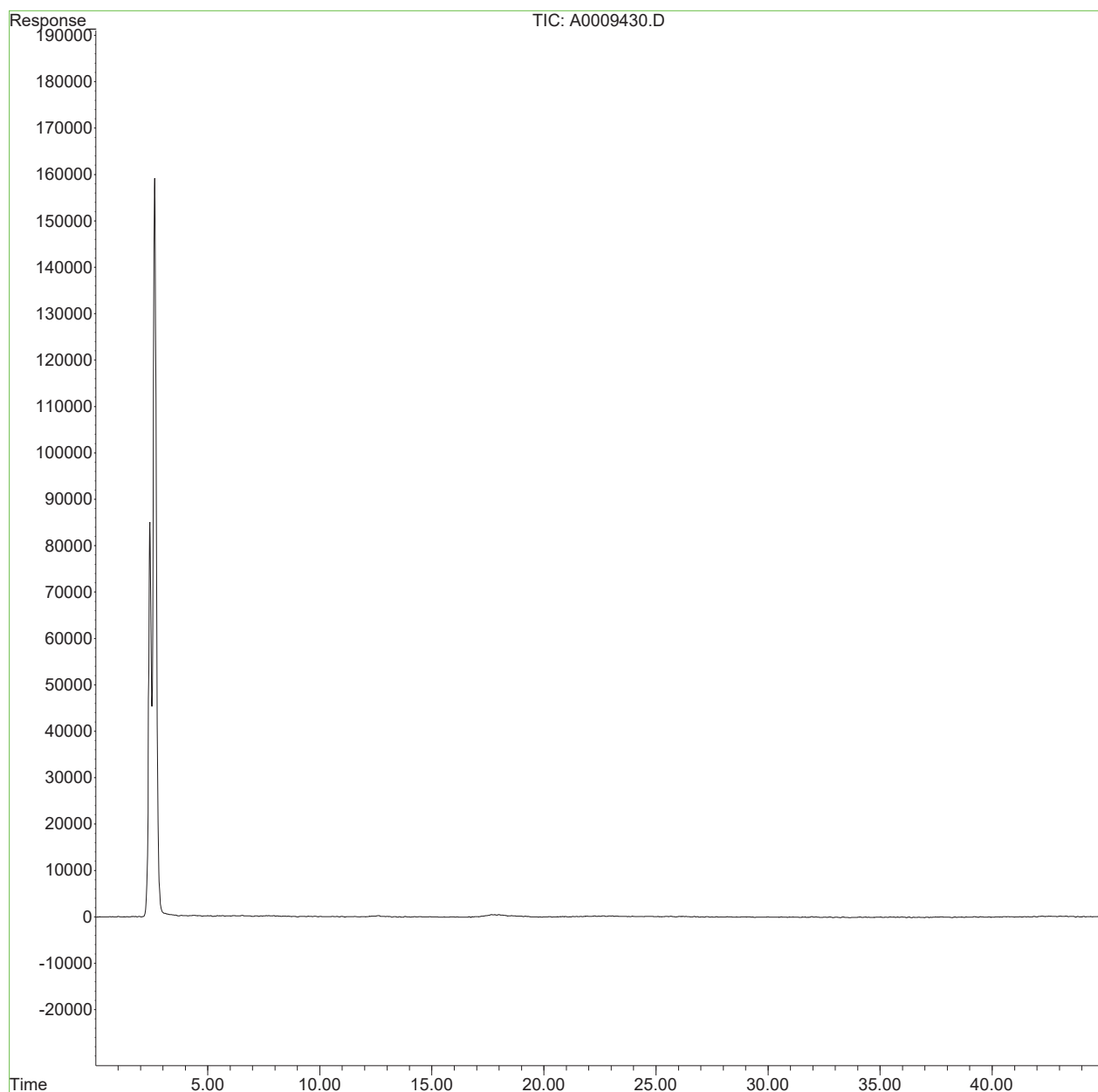
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009430.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 20:03:51
Operator : AFelser
Sample : R2300356-006
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:06 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009412.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 17:48:41~~ Time/Date Error AF 1/27/23
Operator : AFelser 26-Jan-2023, 05:53
Sample : MB
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:06 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	0.000	0	N.D.	ppm
2) T Pyruvic acid	0.000	0	N.D.	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm
4) T Acetic Acid	0.000	0	N.D.	ppm d
5) T Propionic Acid	0.000	0	N.D.	ppm d
6) T Butyric Acid	0.000	0	N.D.	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

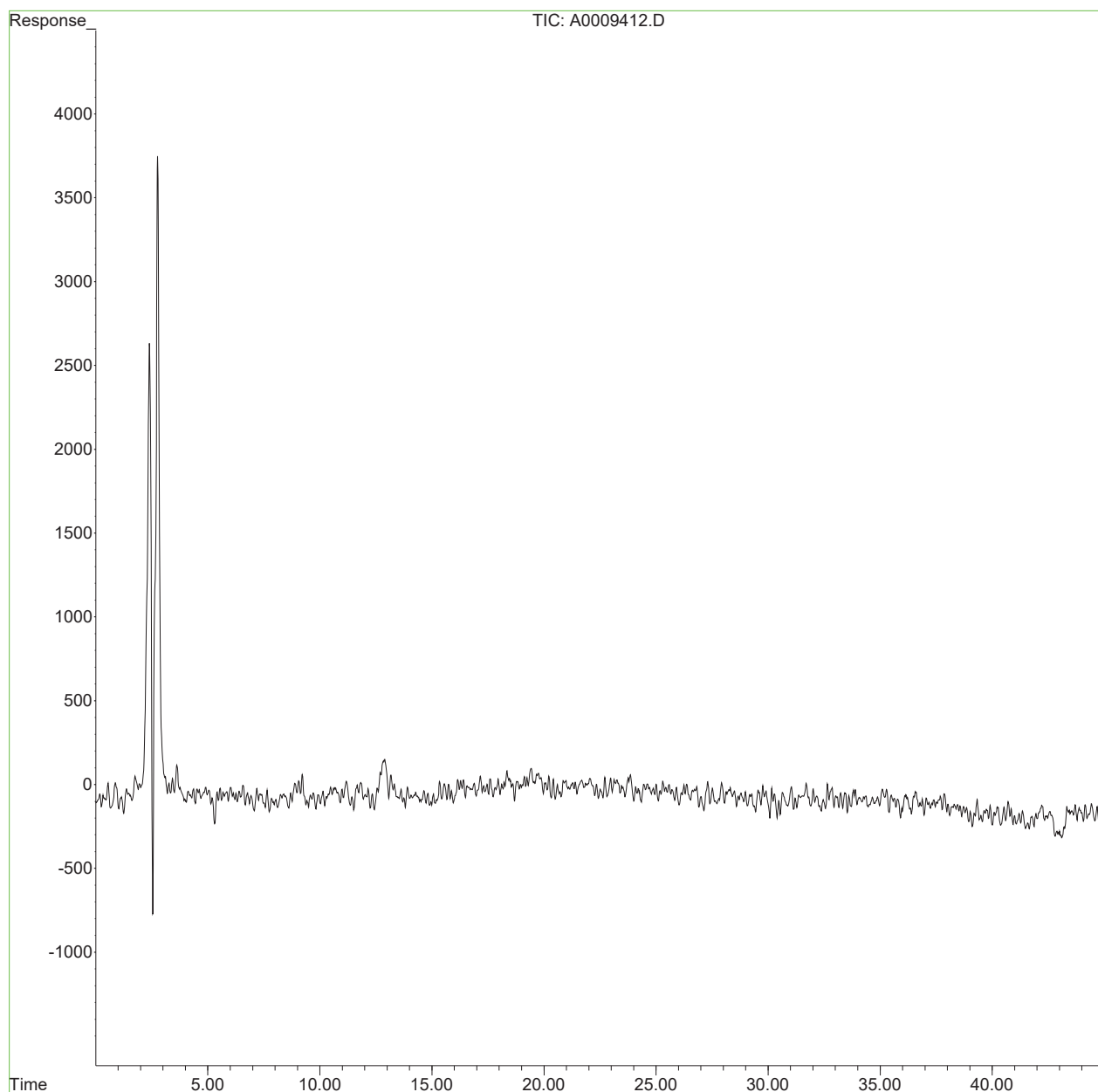
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009412.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:48:41
Operator : AFelser
Sample : MB
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:06 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synerg hydro rp
Signal Info : UV wave 210



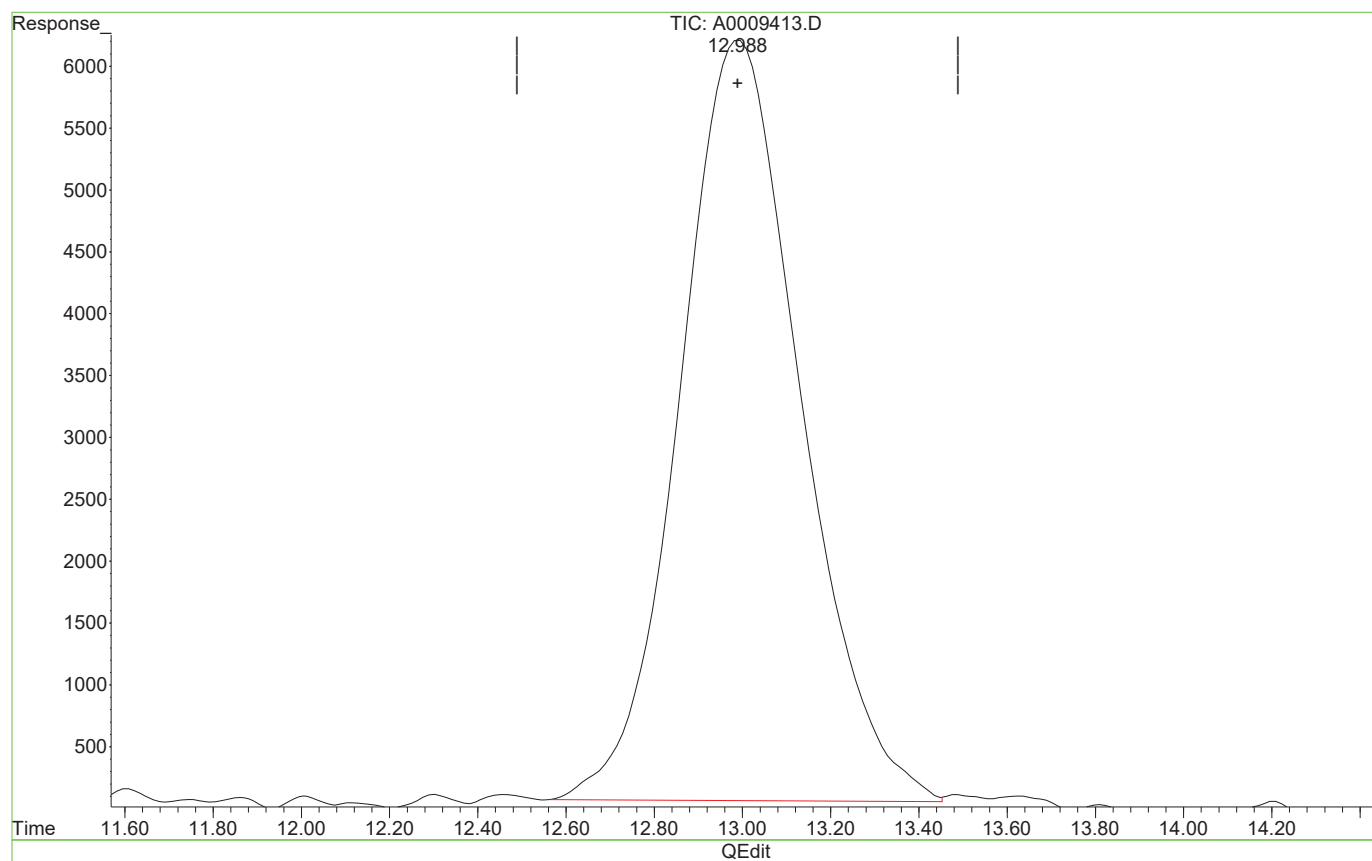
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009413.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 06:42:38
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:08 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.988min 22.050 ppm m
response 1168440

Manual Integration:
After
Poor integration.
01/27/23

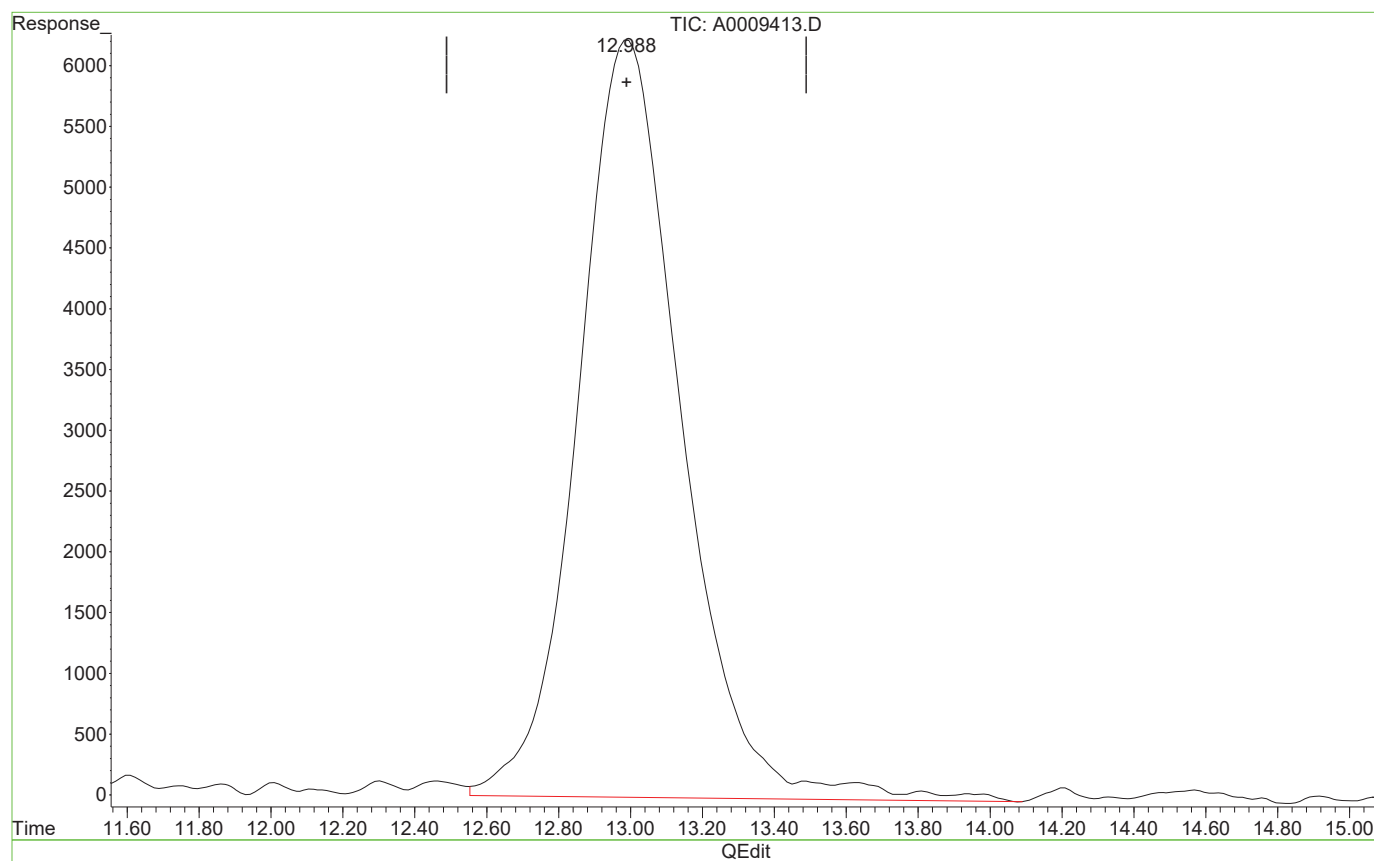
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009413.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 06:42:38
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:08 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.994min 23.483 ppm
response 1244375

Manual Integration:
Before

01/27/23

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009413.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 06:42:38
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:08 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.395	1949072	20.456 ppm
2) T Pyruvic acid	4.227	14011655	21.964 ppm
3) T Lactic Acid	4.829	1255765	22.394 ppm
4) T Acetic Acid	5.295	1174172	20.625 ppm
5) T Propionic Acid	12.988	1168440	22.050 ppm m
6) T Butyric Acid	39.840	1203933	21.492 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

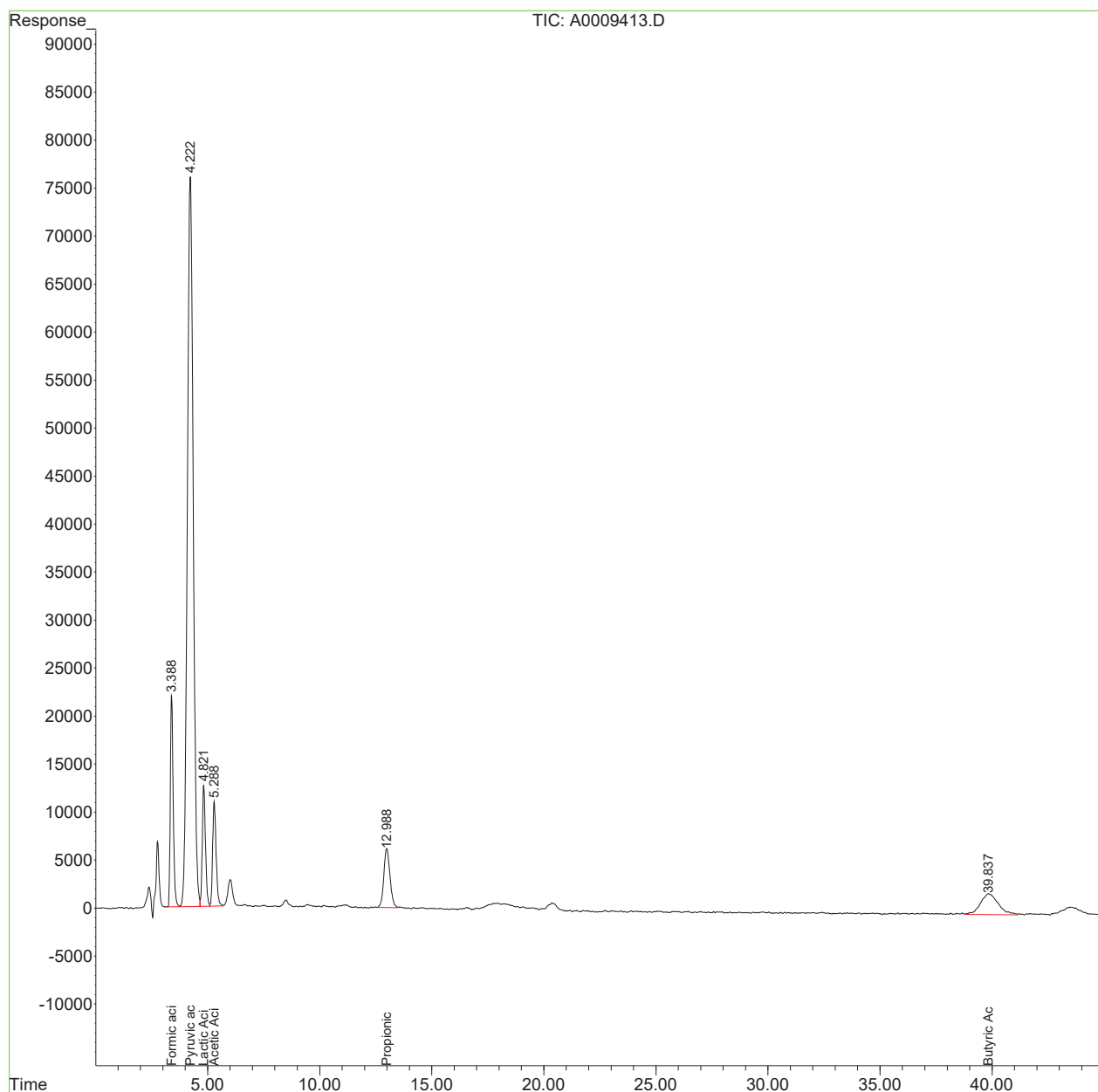
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009413.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 06:42:38
Operator : AFelser
Sample : LCS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:08 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



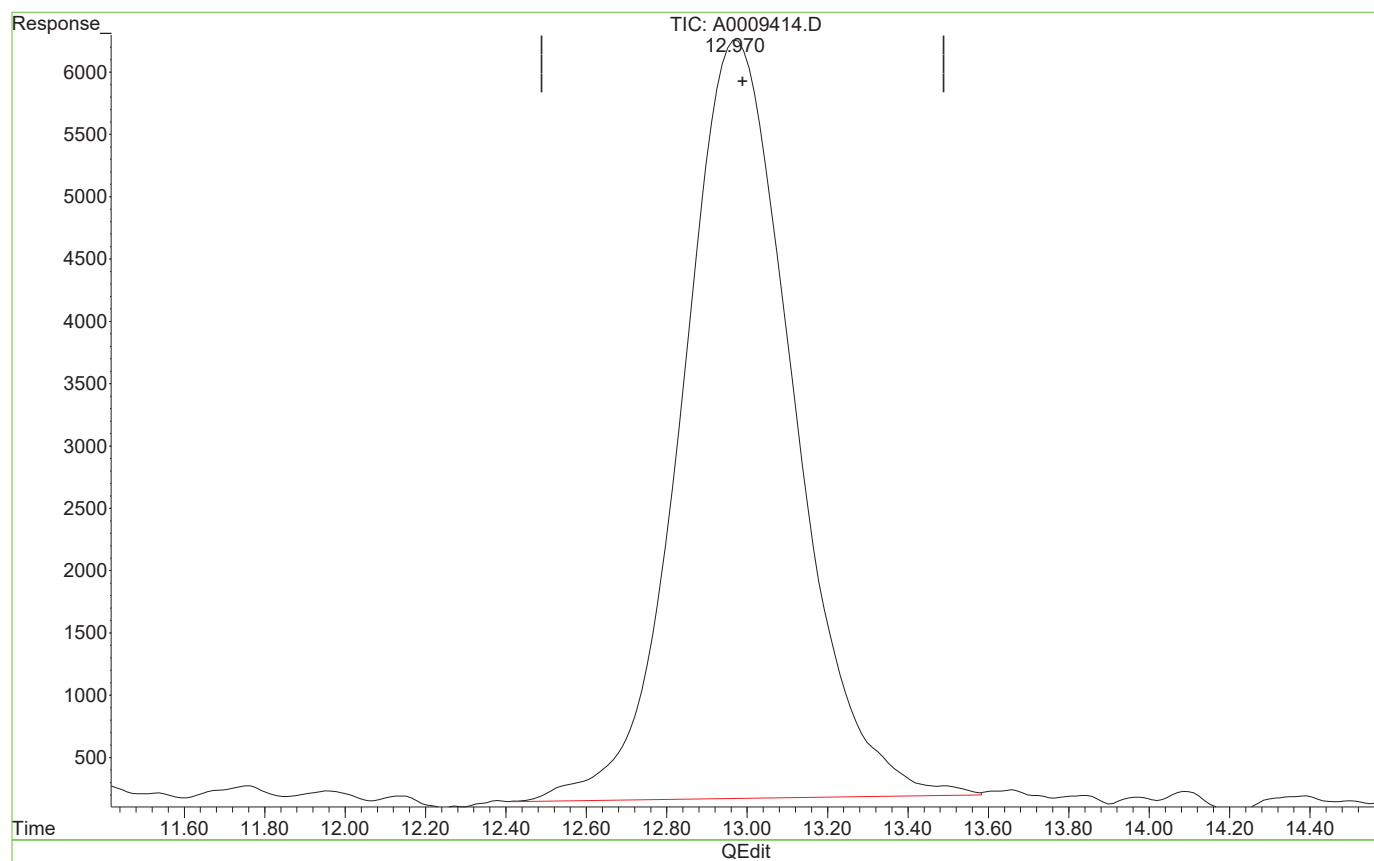
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009414.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:47:58
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:10 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.970min 22.190 ppm m
response 1175841

Manual Integration:
After
Poor integration.
01/27/23

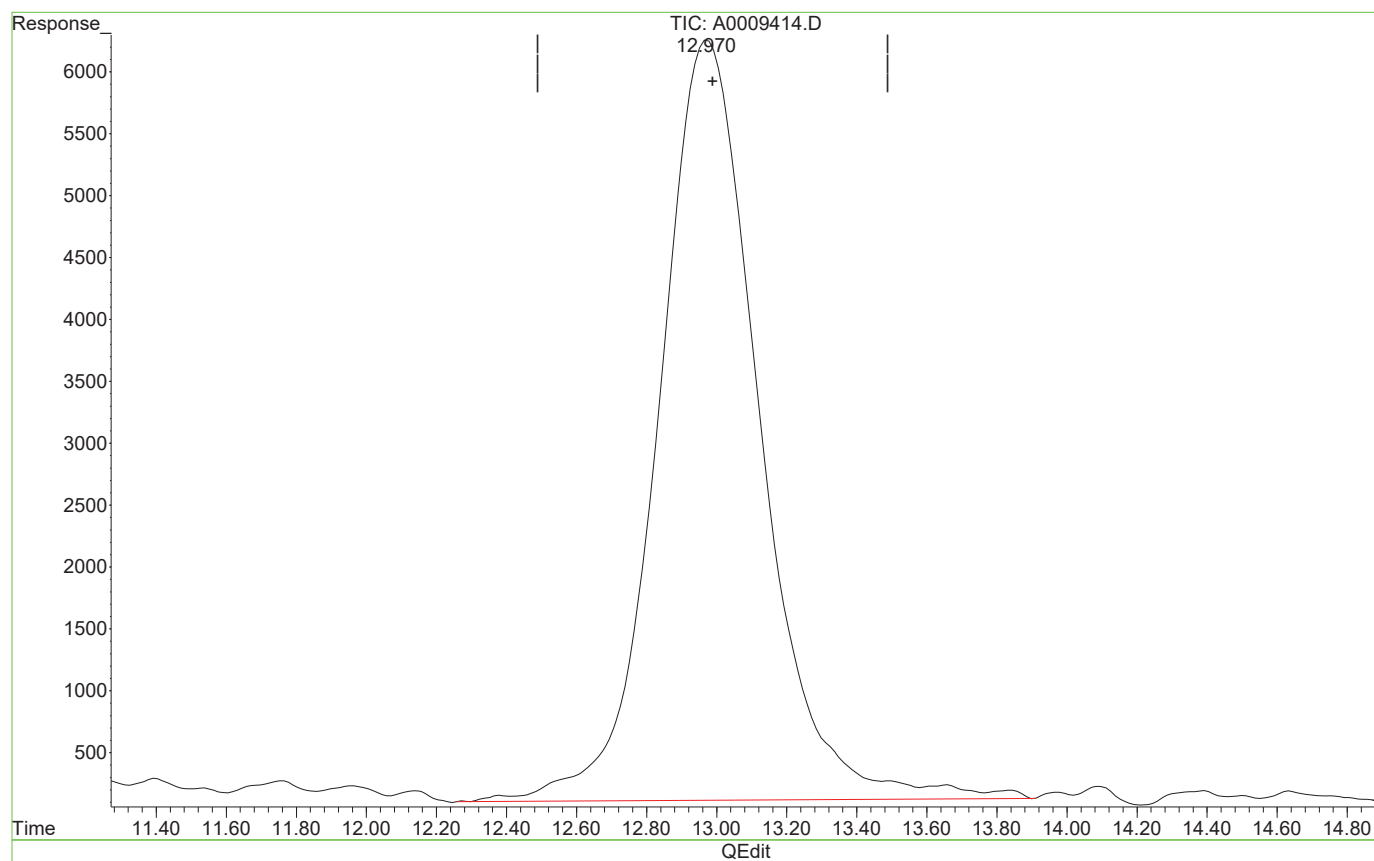
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009414.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:47:58
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:10 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synerg hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.976min 23.227 ppm
response 1230804

Manual Integration:
Before

01/27/23

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009414.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 17:47:58~~ Time/Date Error AF 1/27/23
Operator : AFelser 26-Jan-2023, 07:27
Sample : DLCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:10 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.392	1943010	20.392 ppm
2) T Pyruvic acid	4.223	14008788	21.960 ppm
3) T Lactic Acid	4.824	1264309	22.547 ppm
4) T Acetic Acid	5.289	1171849	20.584 ppm
5) T Propionic Acid	12.970	1175841	22.190 ppm m
6) T Butyric Acid	39.703	1045631	18.666 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

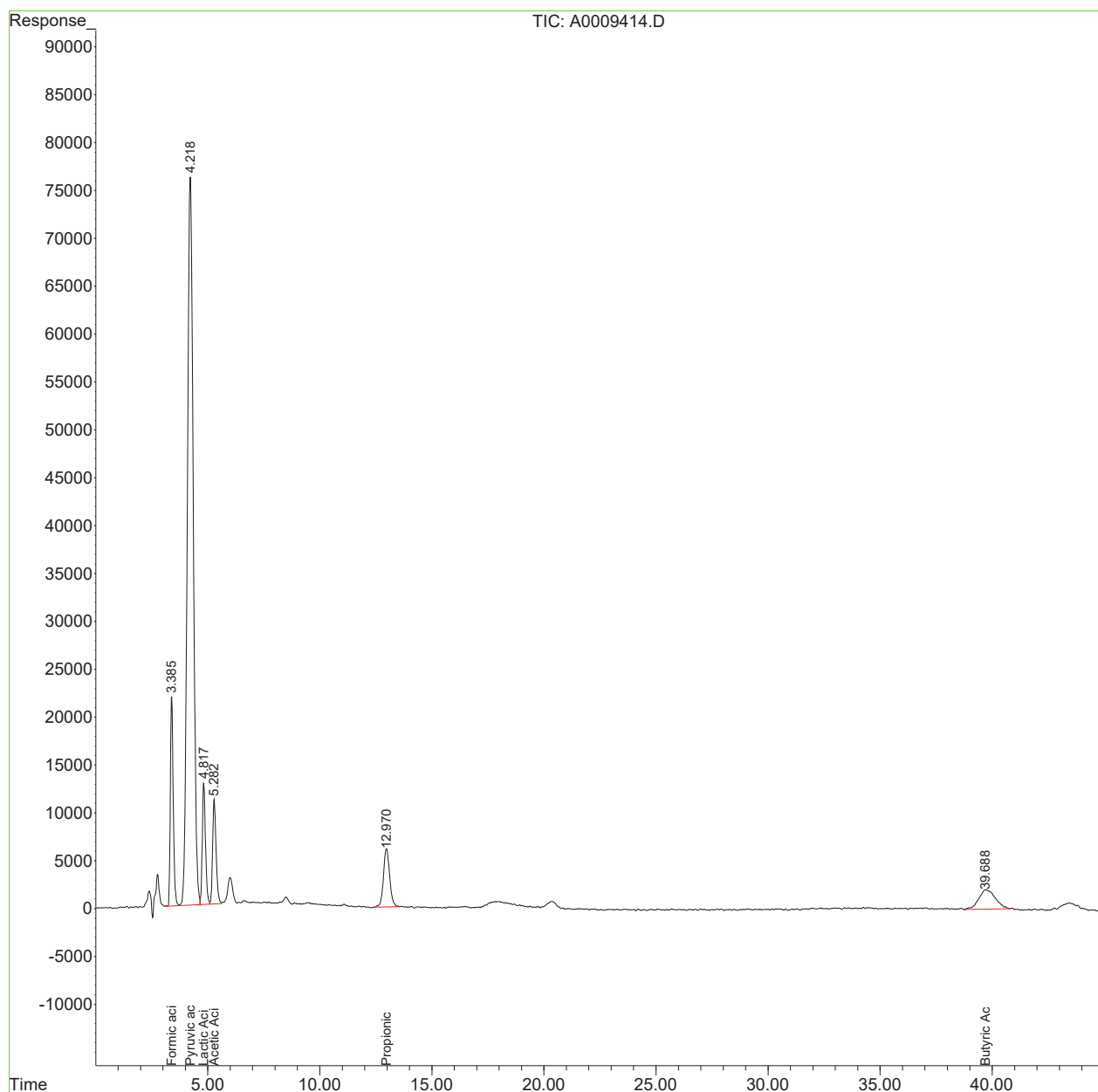
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009414.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 17:47:58
Operator : AFelser
Sample : DLCS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:10 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009432.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 21:38:08
Operator : AFelser
Sample : R2300356-006MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:42 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.388	1924770	20.201 ppm
2) T Pyruvic acid	4.199	14037568	22.005 ppm
3) T Lactic Acid	4.791	1273534	22.711 ppm
4) T Acetic Acid	5.250	1174387	20.629 ppm
5) T Propionic Acid	12.758	1214487	22.919 ppm
6) T Butyric Acid	38.829	1048105	18.710 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

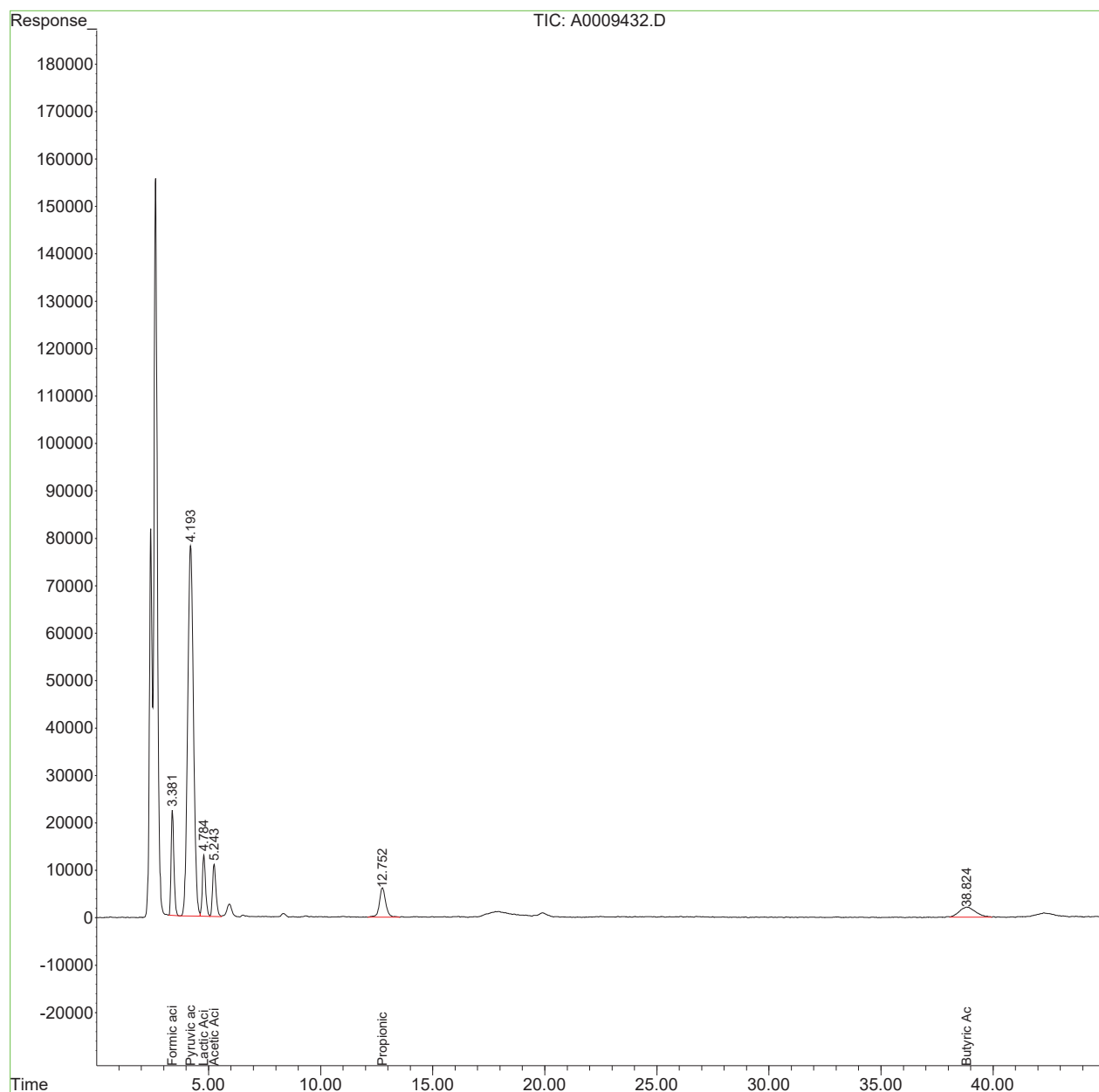
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009432.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 21:38:08
Operator : AFelser
Sample : R2300356-006MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:42 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



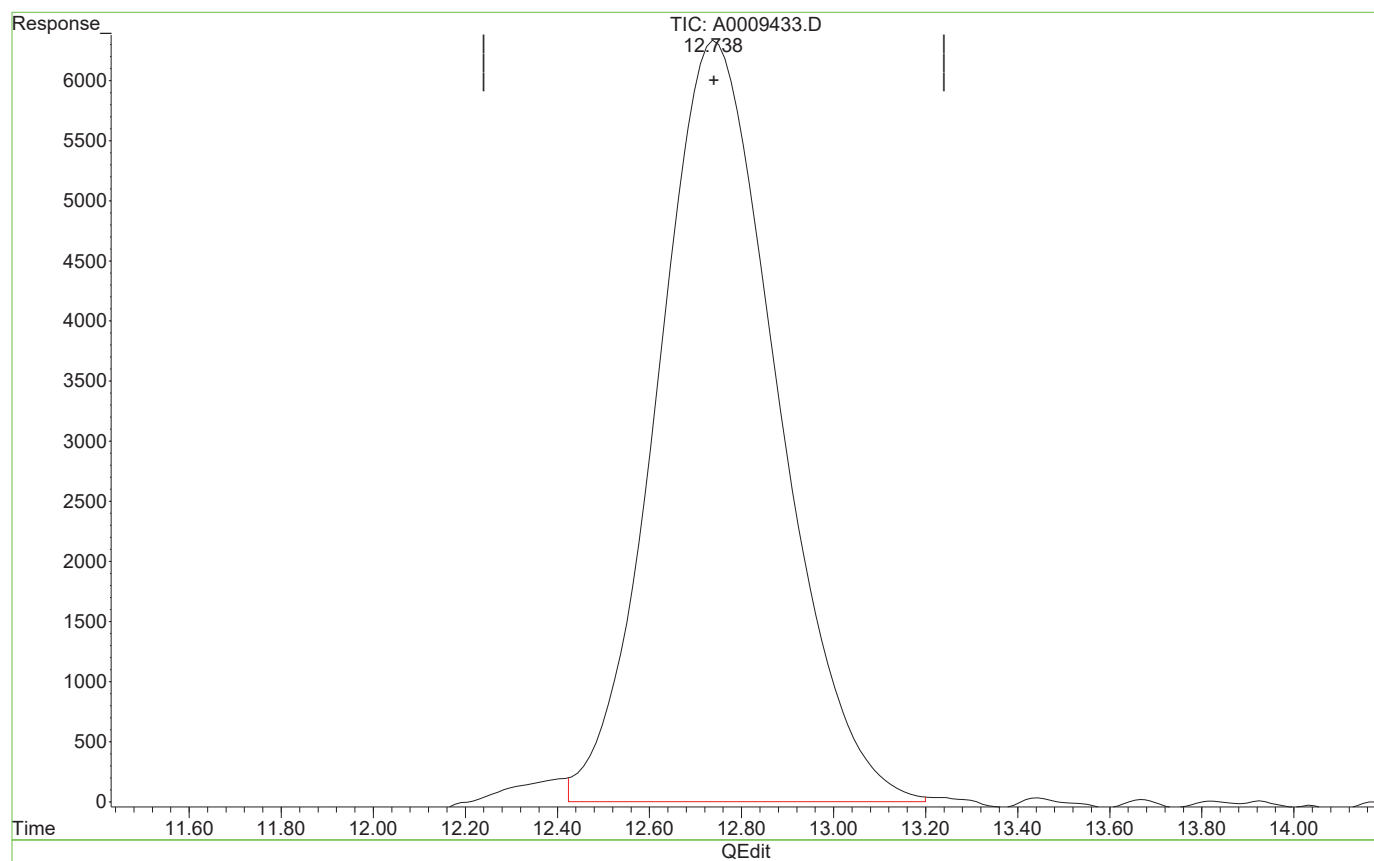
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009433.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:28:28
Operator : AFelser
Sample : R2300356-006DMS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:44 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.738min 21.693 ppm m
response 1149487

Manual Integration:
After
Poor integration.
01/27/23

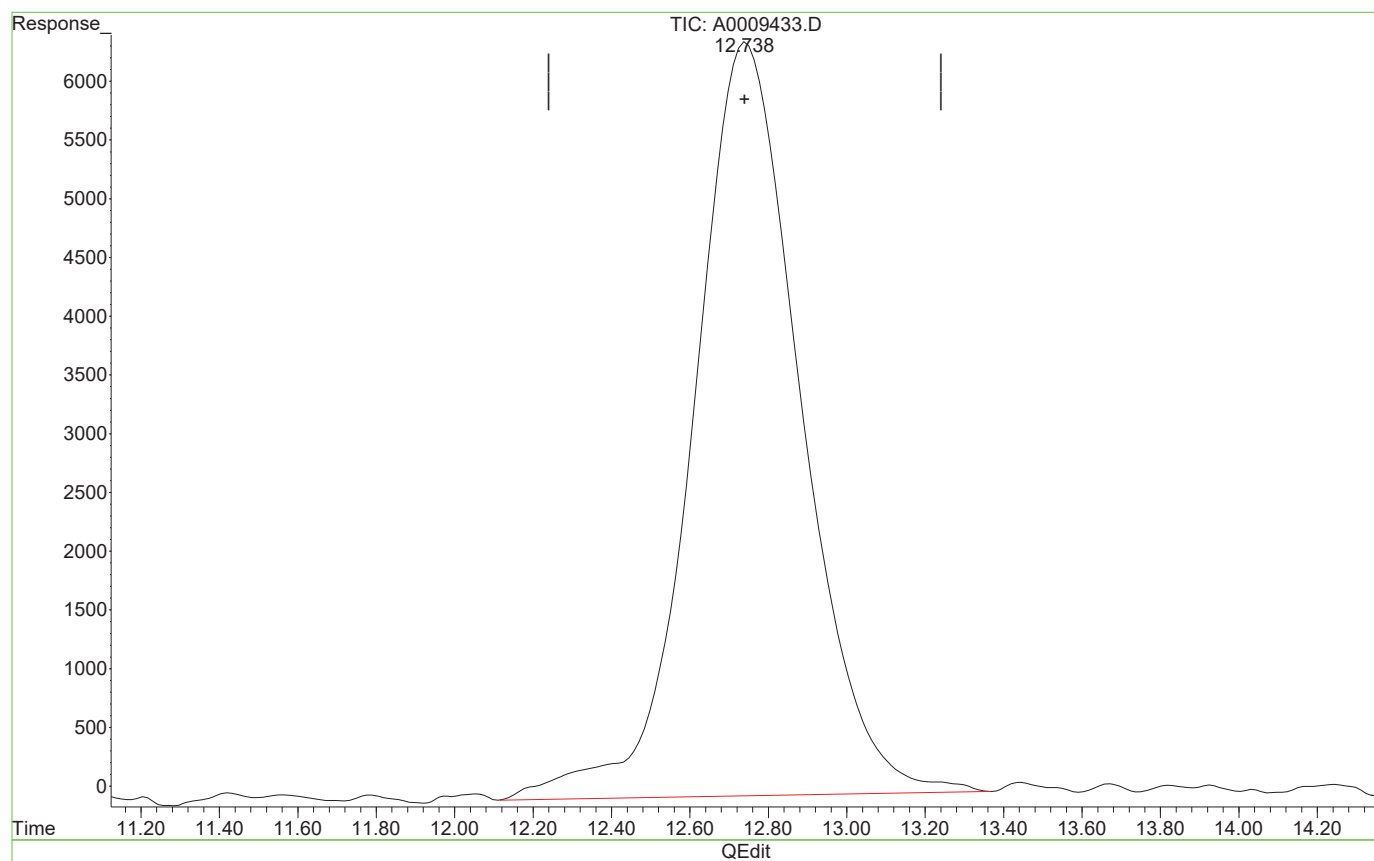
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009433.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:28:28
Operator : AFelser
Sample : R2300356-006DMS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:44 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.745min 23.110 ppm
response 1224582

Manual Integration:
Before

01/27/23

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009433.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 00:28:28~~ Time/Date Error AF 1/27/23
Operator : AFelser 26-Jan-2023, 22:23
Sample : R2300356-006DMS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:44 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.387	1999772	20.988 ppm
2) T Pyruvic acid	4.197	14670984	22.998 ppm
3) T Lactic Acid	4.789	1321771	23.571 ppm
4) T Acetic Acid	5.248	1208946	21.236 ppm
5) T Propionic Acid	12.738	1149487	21.693 ppm m
6) T Butyric Acid	38.802	1140581	20.361 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

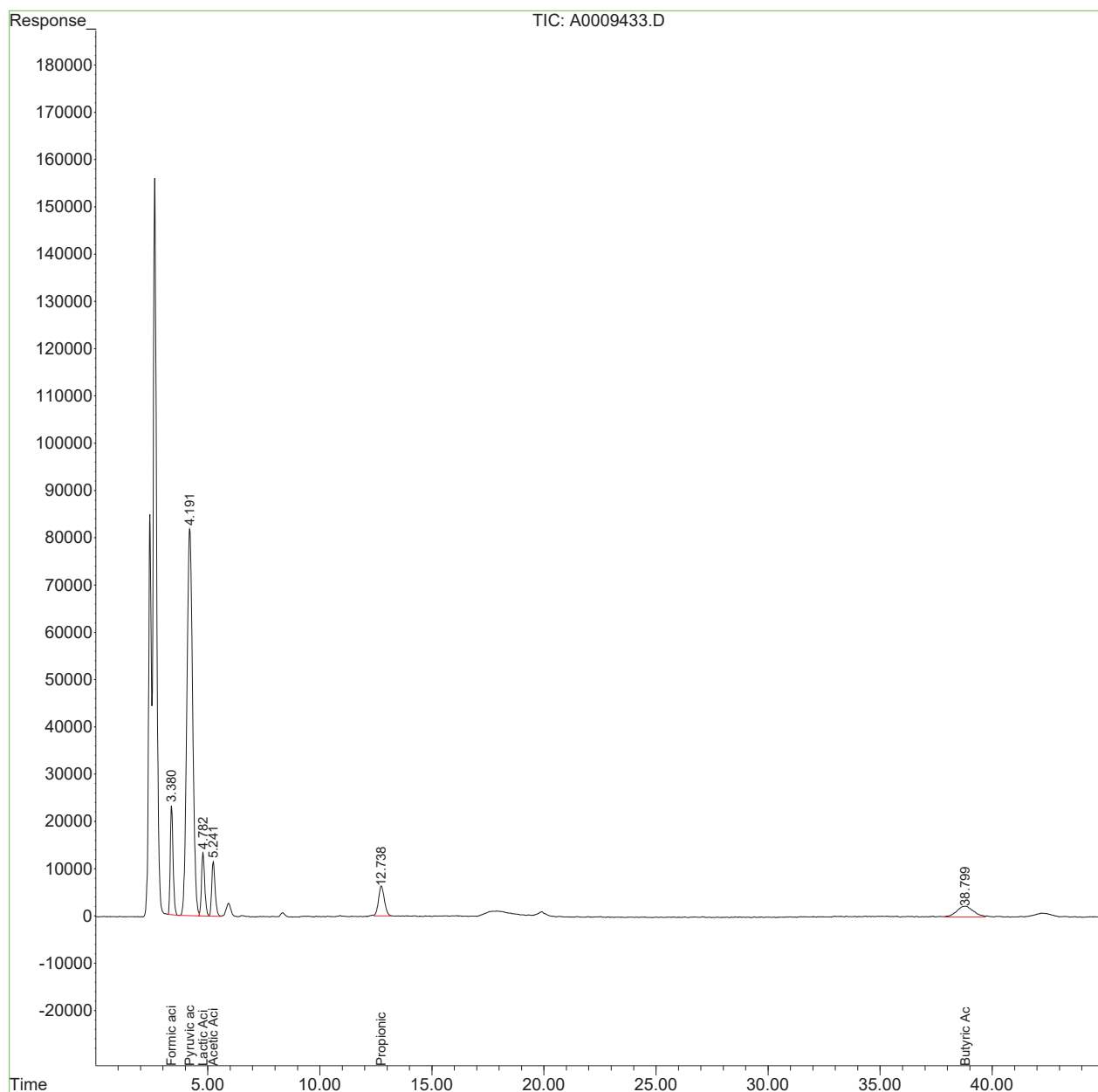
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009433.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 00:28:28
Operator : AFelser
Sample : R2300356-006DMS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:44 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Evaluate Continuing Calibration Report

1st AF 01/26/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009411.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 02:48:35~~ Time/Date Error AF 1/26/23
Operator : AFelser 26-Jan-2023, 05:06
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 26 07:05:27 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jan 26 07:05:09 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 t	Formic acid	95.282	95.683 E3	-0.4	100	0.00
2 T	Pyruvic acid	637.926	657.984 E3	-3.1	100	0.00
3 T	Lactic Acid	56.075	59.065 E3	-5.3	99	0.00
4 T	Acetic Acid	56.930	58.362 E3	-2.5	102	-0.01
5 T	Propionic Acid	52.990	58.393 E3	-10.2	104	-0.05
6 T	Butyric Acid	56.019	53.513 E3	4.5	91	-0.22

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

1st AF 01/26/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009411.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 02:48:35~~ Time/Date Error AF 1/26/23
Operator : AFelser 26-Jan-2023, 05:06
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 26 07:05:27 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jan 26 07:05:09 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.392	4784160	50.211 ppm
2) T Pyruvic acid	4.225	32899215	51.572 ppm
3) T Lactic Acid	4.827	2953226	52.665 ppm
4) T Acetic Acid	5.292	2918083	51.257 ppm
5) T Propionic Acid	12.989	2919663	55.099 ppm
6) T Butyric Acid	39.828	2675626	47.763 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

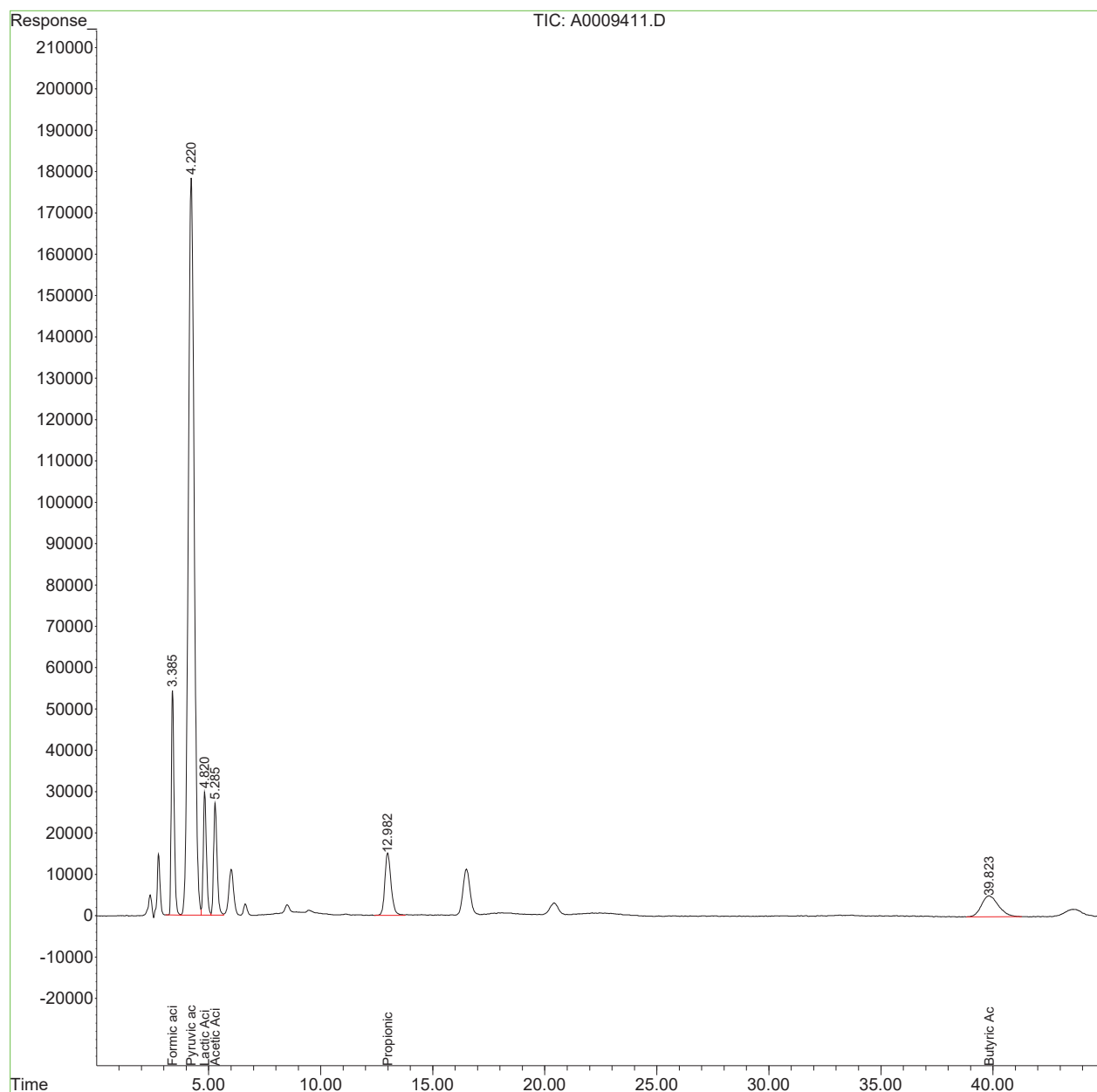
Quantitation Report (QT Reviewed)

1st AF 01/26/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009411.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 02:48:35
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 26 07:05:27 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jan 26 07:05:09 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Evaluate Continuing Calibration Report

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009415.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 08:16:55
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:12 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 t	Formic acid	95.282	95.793 E3	-0.5	100	0.00
2 T	Pyruvic acid	637.926	659.244 E3	-3.3	100	0.00
3 T	Lactic Acid	56.075	59.410 E3	-5.9	99	0.00
4 T	Acetic Acid	56.930	58.536 E3	-2.8	102	-0.01
5 T	Propionic Acid	52.990	57.869 E3	-9.2	103	-0.05
6 T	Butyric Acid	56.019	52.663 E3	6.0	89	-0.25

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009415.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 08:16:55
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:12 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.390	4789637	50.268 ppm
2) T Pyruvic acid	4.219	32962215	51.671 ppm
3) T Lactic Acid	4.817	2970483	52.973 ppm
4) T Acetic Acid	5.281	2926823	51.411 ppm
5) T Propionic Acid	12.936	2893435	54.604 ppm
6) T Butyric Acid	39.583	2633140	47.004 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

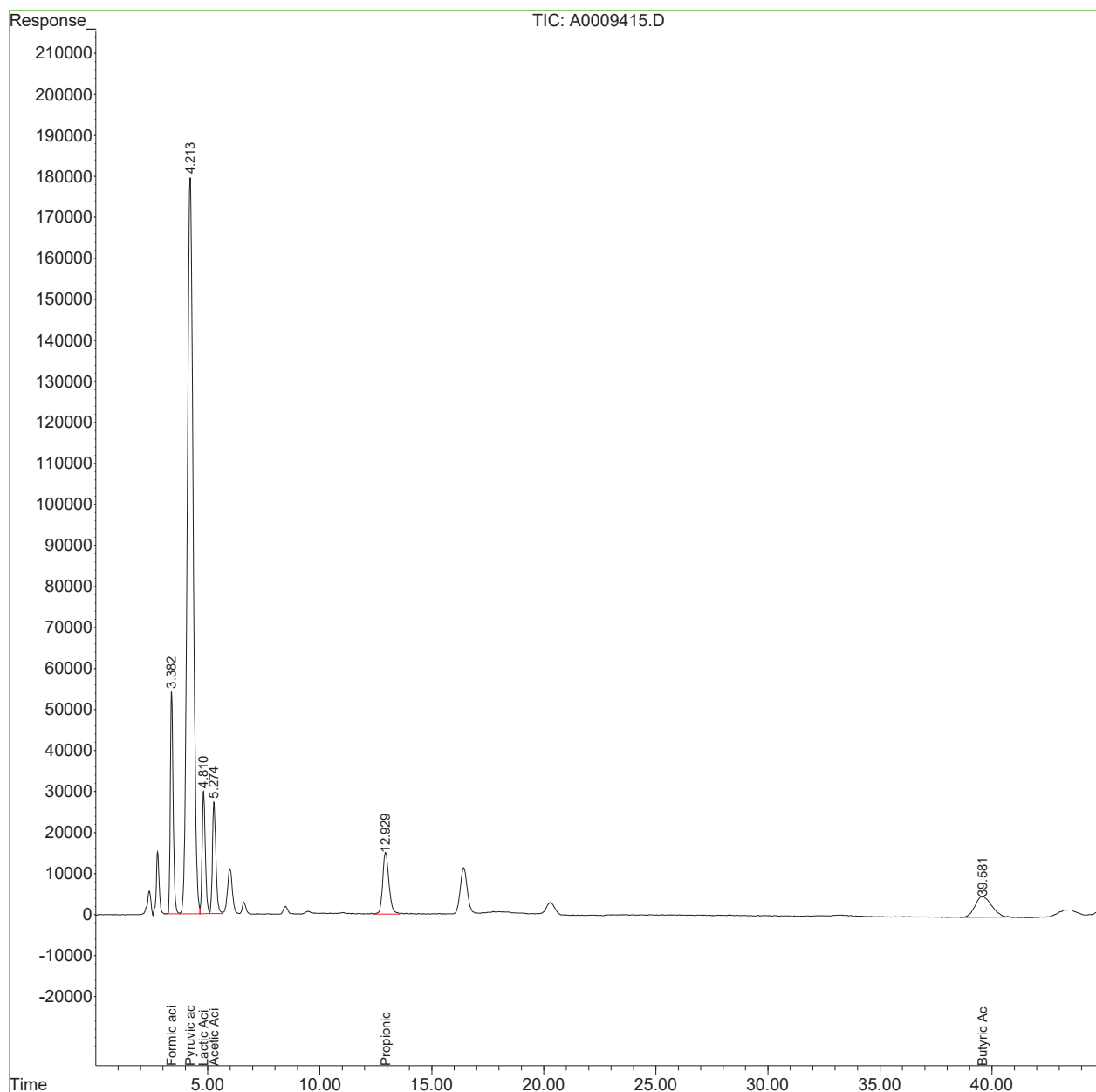
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009415.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 08:16:55
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:04:12 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:03:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



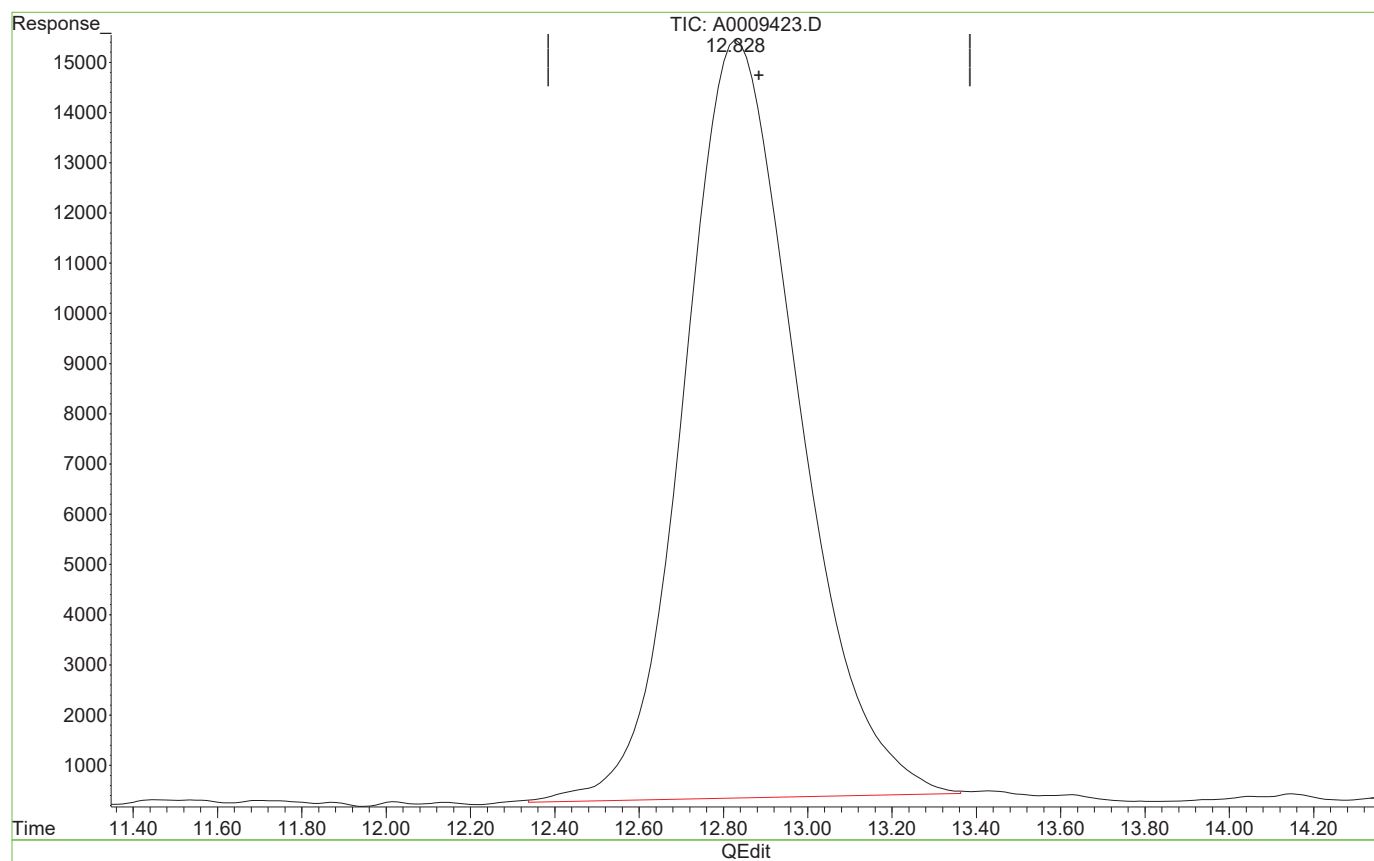
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009423.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 14:33:54
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:08:20 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.828min 53.503 ppm m
response 2835116

Manual Integration:
After
Poor integration.
01/27/23

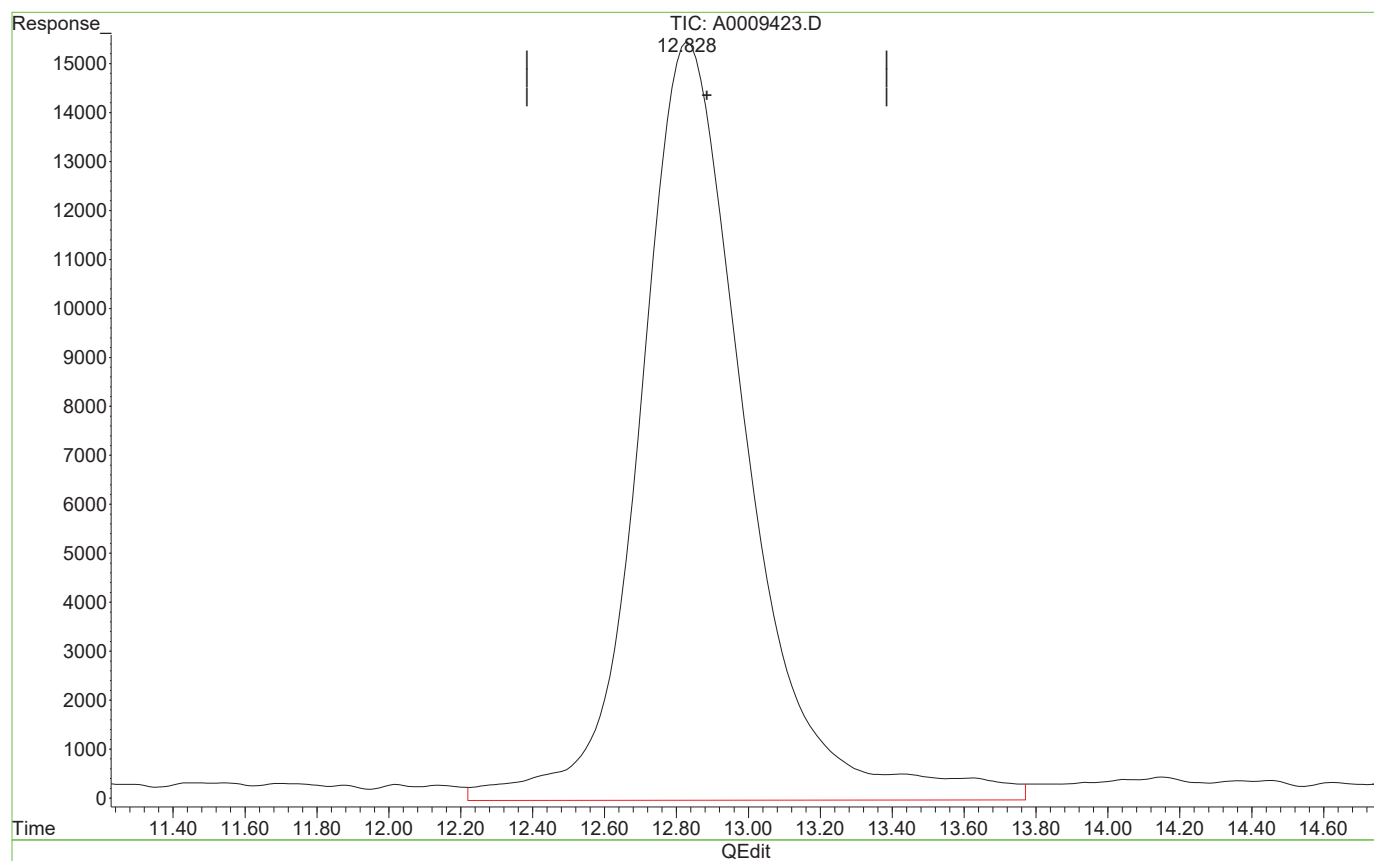
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009423.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 14:33:54
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:08:20 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.835min 60.560 ppm
response 3209040

Manual Integration:
Before

01/27/23

Evaluate Continuing Calibration Report

 1st **AF** 01/27/23
 2nd **BA** 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
 Data File : A0009423.D
 Signal(s) : dad1A.ch
 Acq On : 26-Jan-2023, 14:33:54
 Operator : AFelser
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
 Quant Time: Jan 27 08:08:20 2023
 Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
 Quant Title : organic acids
 QLast Update : Fri Jan 27 08:08:03 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 50.0ul
 Signal Phase : synergic hydro rp
 Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 t	Formic acid	95.282	95.312 E3	-0.0	100	0.00
2 T	Pyruvic acid	637.926	663.086 E3	-3.9	101	0.00
3 T	Lactic Acid	56.075	59.996 E3	-7.0	100	0.00
4 T	Acetic Acid	56.930	59.073 E3	-3.8	103	0.00
5 T	Propionic Acid	52.990	56.702 E3	-7.0	101	-0.06
6 T	Butyric Acid	56.019	54.585 E3	2.6	93	-0.20

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009423.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 14:33:54
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:08:20 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.390	4765614	50.016 ppm
2) T Pyruvic acid	4.209	33154304	51.972 ppm
3) T Lactic Acid	4.804	2999776	53.496 ppm
4) T Acetic Acid	5.266	2953662	51.882 ppm
5) T Propionic Acid	12.828	2835116	53.503 ppm m
6) T Butyric Acid	39.161	2729262	48.720 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

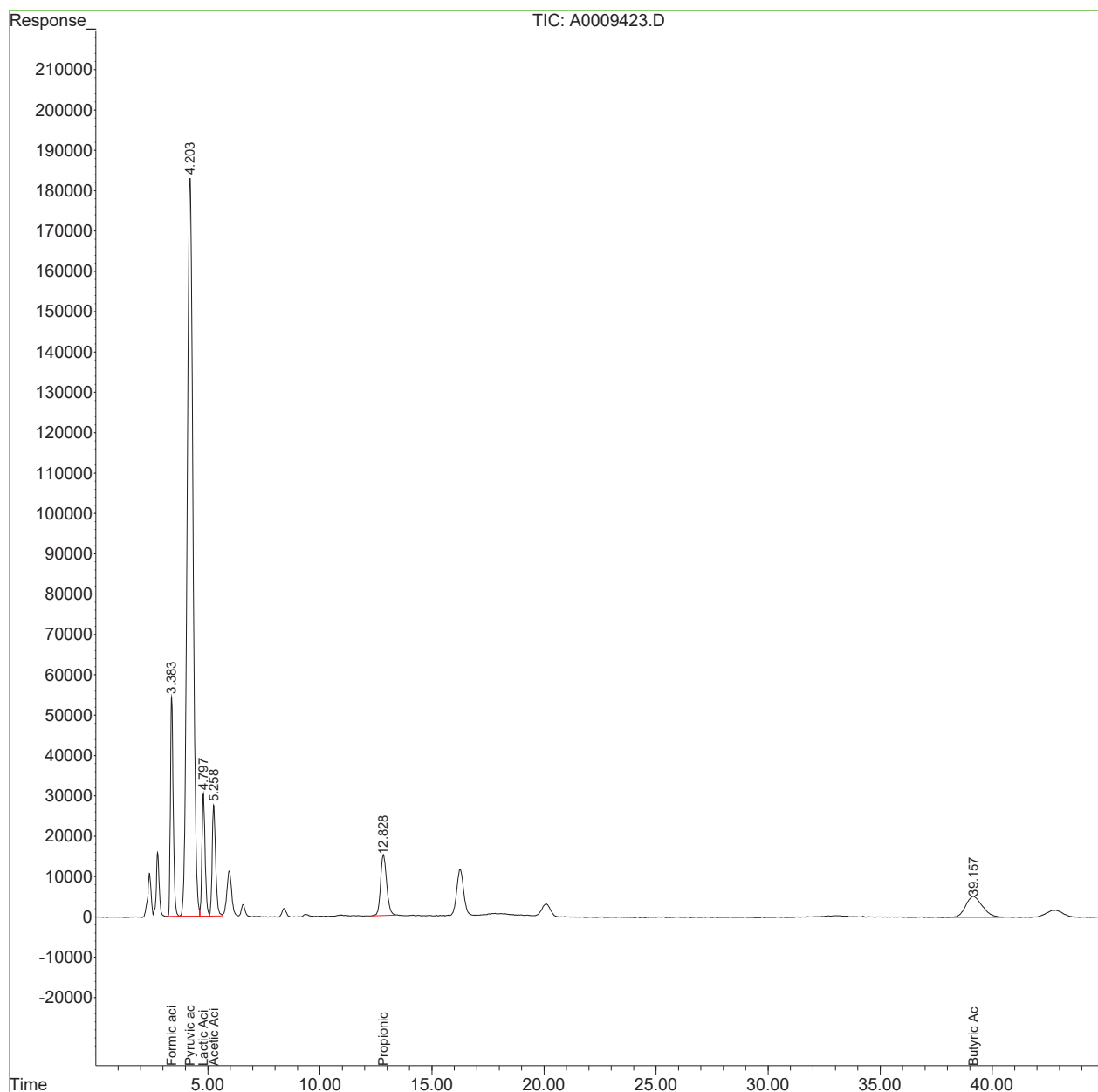
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009423.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 14:33:54
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:08:20 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Evaluate Continuing Calibration Report

 1st **AF** 01/27/23
 2nd **BA** 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
 Data File : A0009427.D
 Signal(s) : dad1A.ch
 Acq On : 26-Jan-2023, 17:42:17
 Operator : AFelser
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
 Quant Time: Jan 27 08:09:06 2023
 Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
 Quant Title : organic acids
 QLast Update : Fri Jan 27 08:08:47 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 50.0ul
 Signal Phase : synergic hydro rp
 Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 t	Formic acid	95.282	95.430 E3	-0.2	100	0.00
2 T	Pyruvic acid	637.926	665.663 E3	-4.3	101	0.00
3 T	Lactic Acid	56.075	60.201 E3	-7.4	101	0.00
4 T	Acetic Acid	56.930	58.583 E3	-2.9	102	0.00
5 T	Propionic Acid	52.990	58.015 E3	-9.5	104	-0.04
6 T	Butyric Acid	56.019	53.408 E3	4.7	91	-0.21

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009427.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 17:42:17
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:09:06 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.388	4771489	50.078 ppm
2) T Pyruvic acid	4.203	33283155	52.174 ppm
3) T Lactic Acid	4.797	3010073	53.679 ppm
4) T Acetic Acid	5.257	2929171	51.452 ppm
5) T Propionic Acid	12.789	2900729	54.741 ppm
6) T Butyric Acid	38.951	2670389	47.669 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

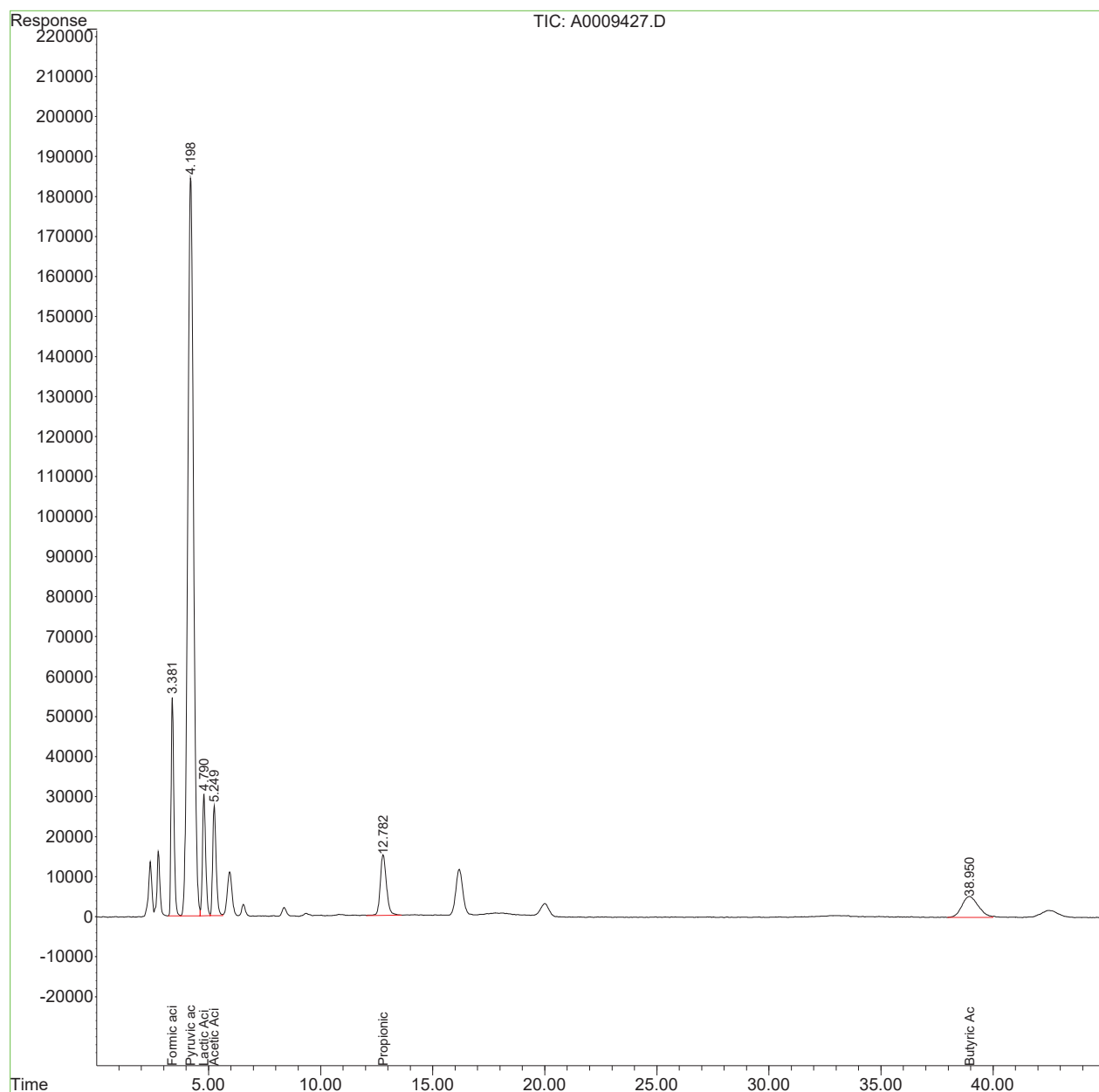
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009427.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 17:42:17
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:09:06 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:08:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



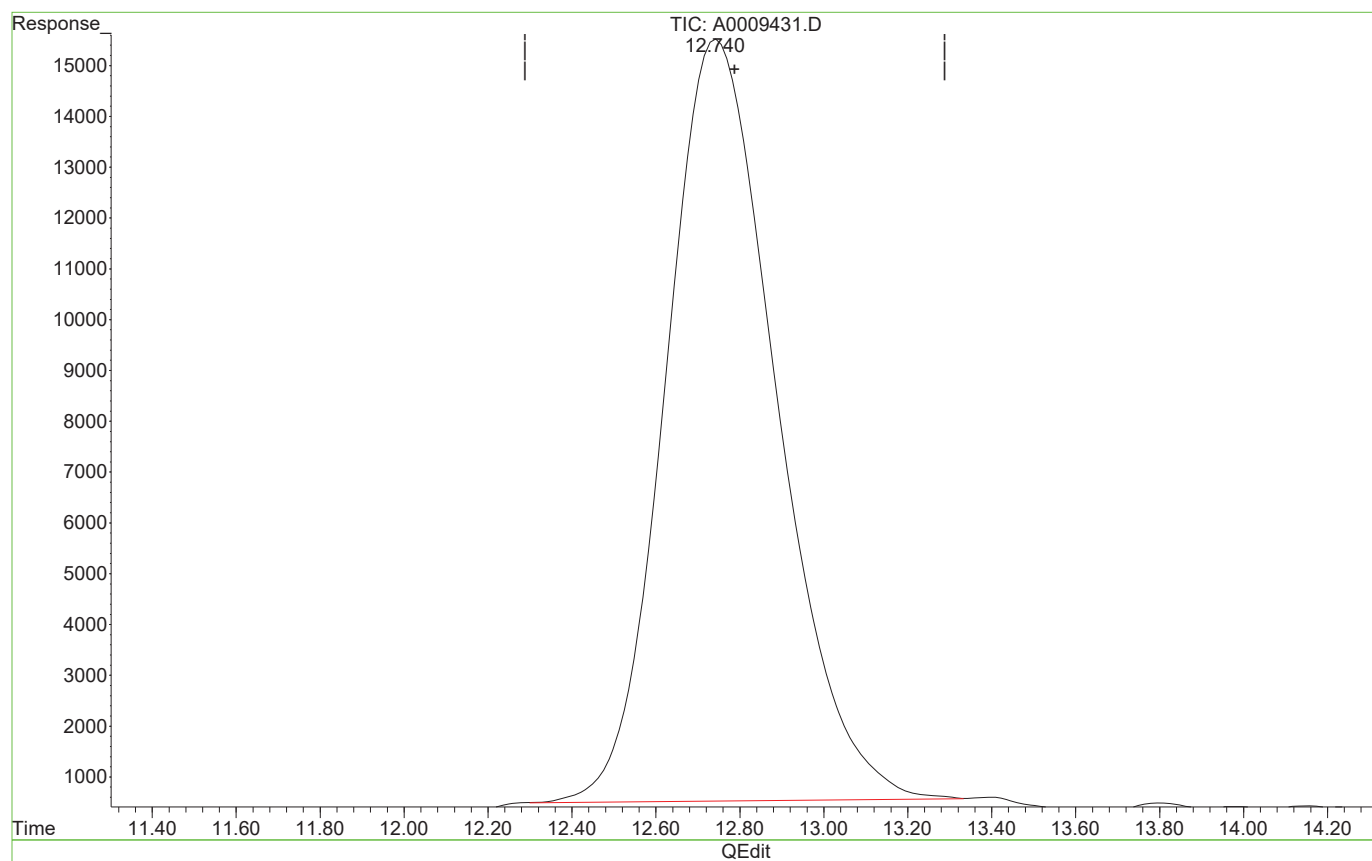
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009431.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 20:51:00
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:08 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.740min 52.048 ppm m
response 2758018

Manual Integration:
After
Poor integration.
01/27/23

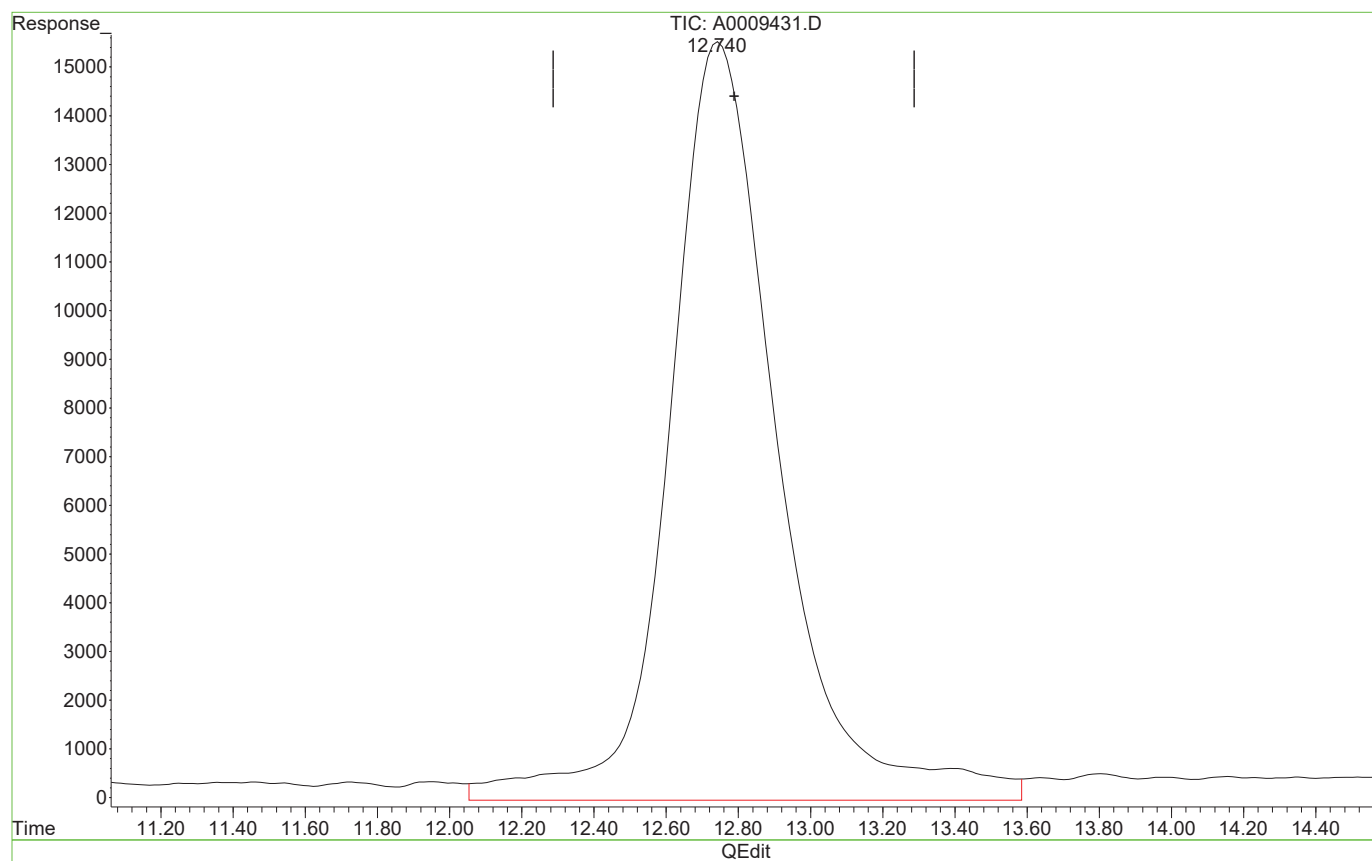
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009431.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 20:51:00
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:08 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.747min 61.714 ppm
response 3270230

Manual Integration:
Before

01/27/23

Evaluate Continuing Calibration Report

 1st **AF** 01/27/23
 2nd **BA** 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
 Data File : A0009431.D
 Signal(s) : dad1A.ch
 Acq On : 26-Jan-2023, 20:51:00
 Operator : AFelser
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
 Quant Time: Jan 27 08:11:08 2023
 Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
 Quant Title : organic acids
 QLast Update : Fri Jan 27 08:10:47 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 50.0ul
 Signal Phase : synergic hydro rp
 Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 t	Formic acid	95.282	95.354 E3	-0.1	100	0.00
2 T	Pyruvic acid	637.926	668.823 E3	-4.8	102	0.00
3 T	Lactic Acid	56.075	60.859 E3	-8.5	102	0.00
4 T	Acetic Acid	56.930	58.905 E3	-3.5	103	0.00
5 T	Propionic Acid	52.990	55.160 E3	-4.1	99	-0.05
6 T	Butyric Acid	56.019	56.713 E3	-1.2	96	-0.20

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009431.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 20:51:00
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:08 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.388	4767684	50.038 ppm
2) T Pyruvic acid	4.199	33441170	52.422 ppm
3) T Lactic Acid	4.790	3042969	54.266 ppm
4) T Acetic Acid	5.250	2945257	51.735 ppm
5) T Propionic Acid	12.740	2758018	52.048 ppm m
6) T Butyric Acid	38.749	2835650	50.619 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

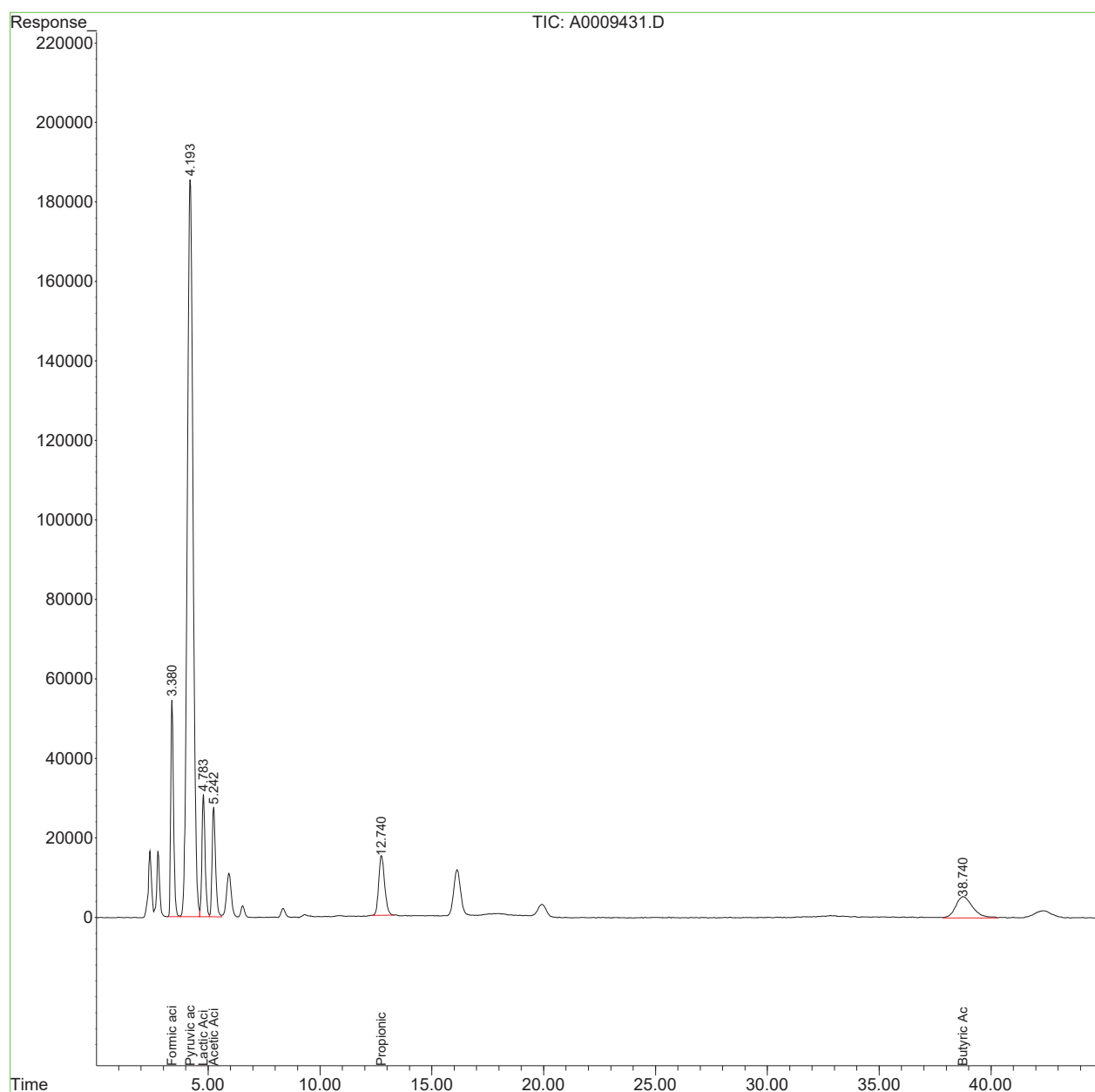
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009431.D
Signal(s) : dad1A.ch
Acq On : 26-Jan-2023, 20:51:00
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:11:08 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:10:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



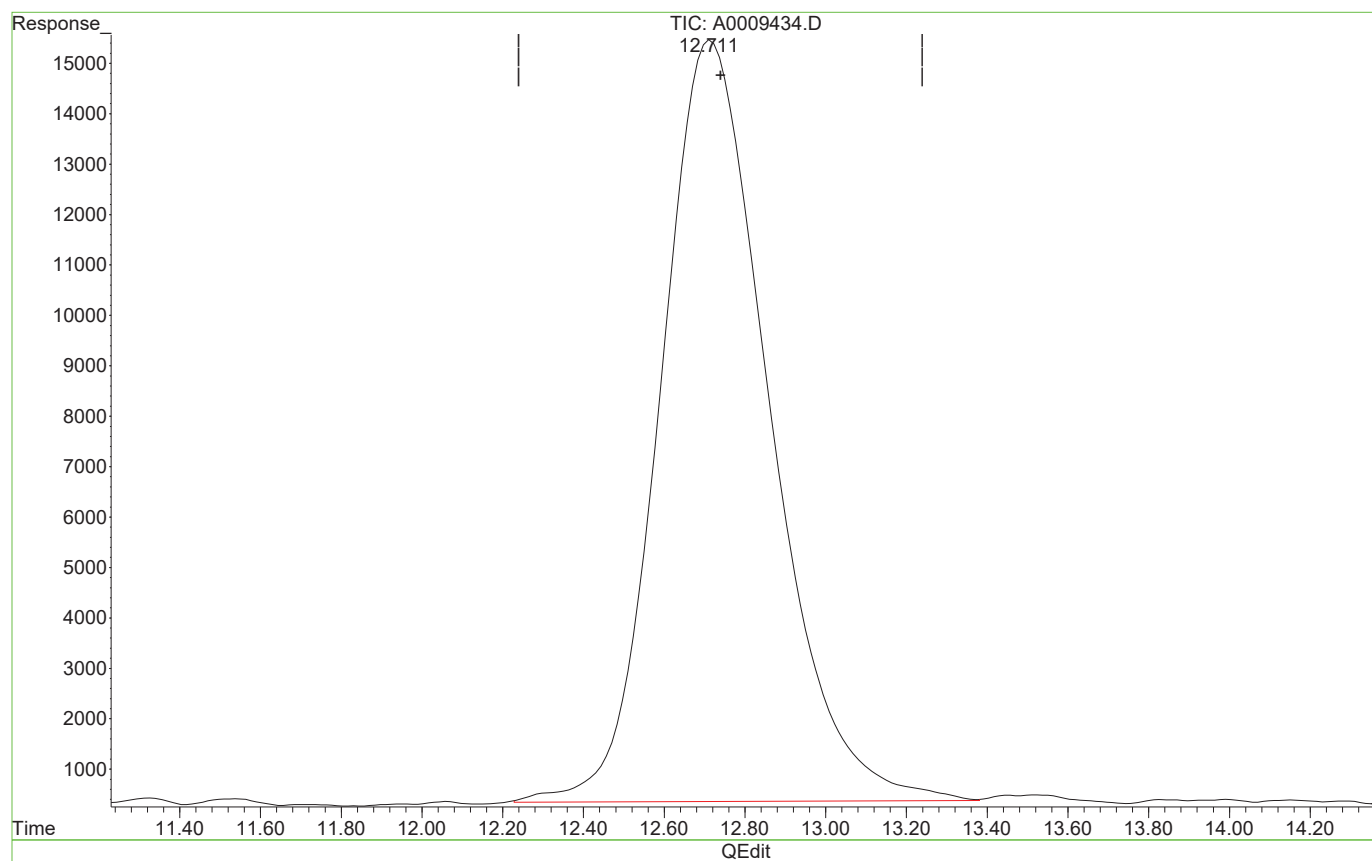
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009434.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 03:48:38
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:46 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.711min 53.436 ppm m
response 2831573

Manual Integration:
After
Poor integration.
01/27/23

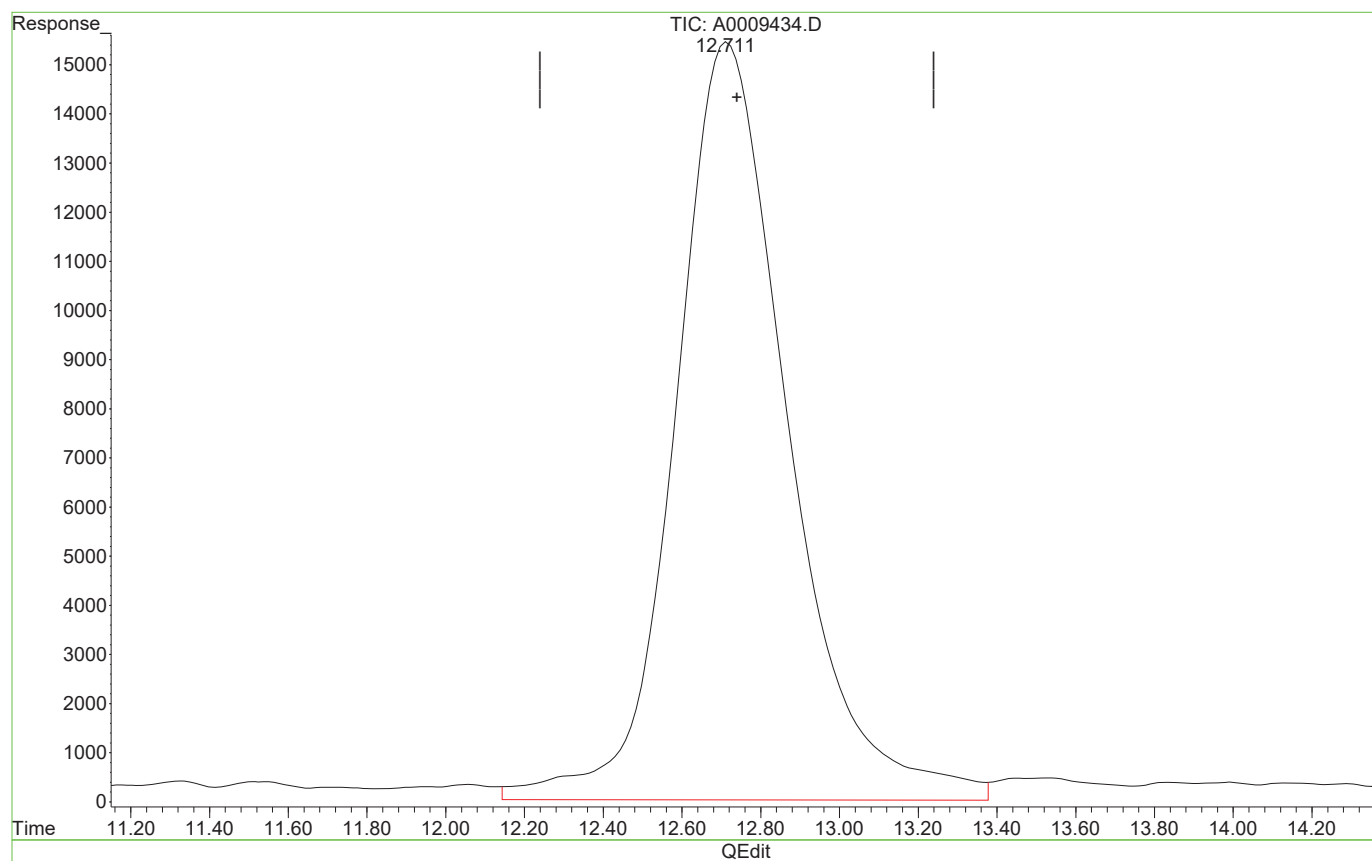
Quantitation Report (Qedit)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009434.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 03:48:38
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:46 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
12.717min 57.901 ppm
response 3068147

Manual Integration:
Before

01/27/23

Evaluate Continuing Calibration Report

 1st **AF** 01/27/23
 2nd **BA** 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
 Data File : A0009434.D
 Signal(s) : dad1A.ch
 Acq On : ~~30-Dec-2000, 03:48:38~~ Time/Date Error AF 1/27/23
 Operator : AFelser 26-Jan-2023, 23:10
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
 Quant Time: Jan 27 08:13:46 2023
 Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
 Quant Title : organic acids
 QLast Update : Fri Jan 27 08:13:15 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 50.0ul
 Signal Phase : synergic hydro rp
 Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 t	Formic acid	95.282	95.496 E3	-0.2	100	0.00
2 T	Pyruvic acid	637.926	669.854 E3	-5.0	102	0.00
3 T	Lactic Acid	56.075	60.932 E3	-8.7	102	0.00
4 T	Acetic Acid	56.930	58.814 E3	-3.3	102	0.00
5 T	Propionic Acid	52.990	56.631 E3	-6.9	101	-0.03
6 T	Butyric Acid	56.019	55.103 E3	1.6	93	-0.14

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009434.D
Signal(s) : dad1A.ch
Acq On : ~~30-Dec-2000, 03:48:38~~ Time/Date Error AF 1/27/23
Operator : AFelser 26-Jan-2023, 23:10
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:46 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.386	4774780	50.112 ppm
2) T Pyruvic acid	4.194	33492682	52.502 ppm
3) T Lactic Acid	4.785	3046599	54.331 ppm
4) T Acetic Acid	5.243	2940715	51.655 ppm
5) T Propionic Acid	12.711	2831573	53.436 ppm m
6) T Butyric Acid	38.612	2755166	49.183 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

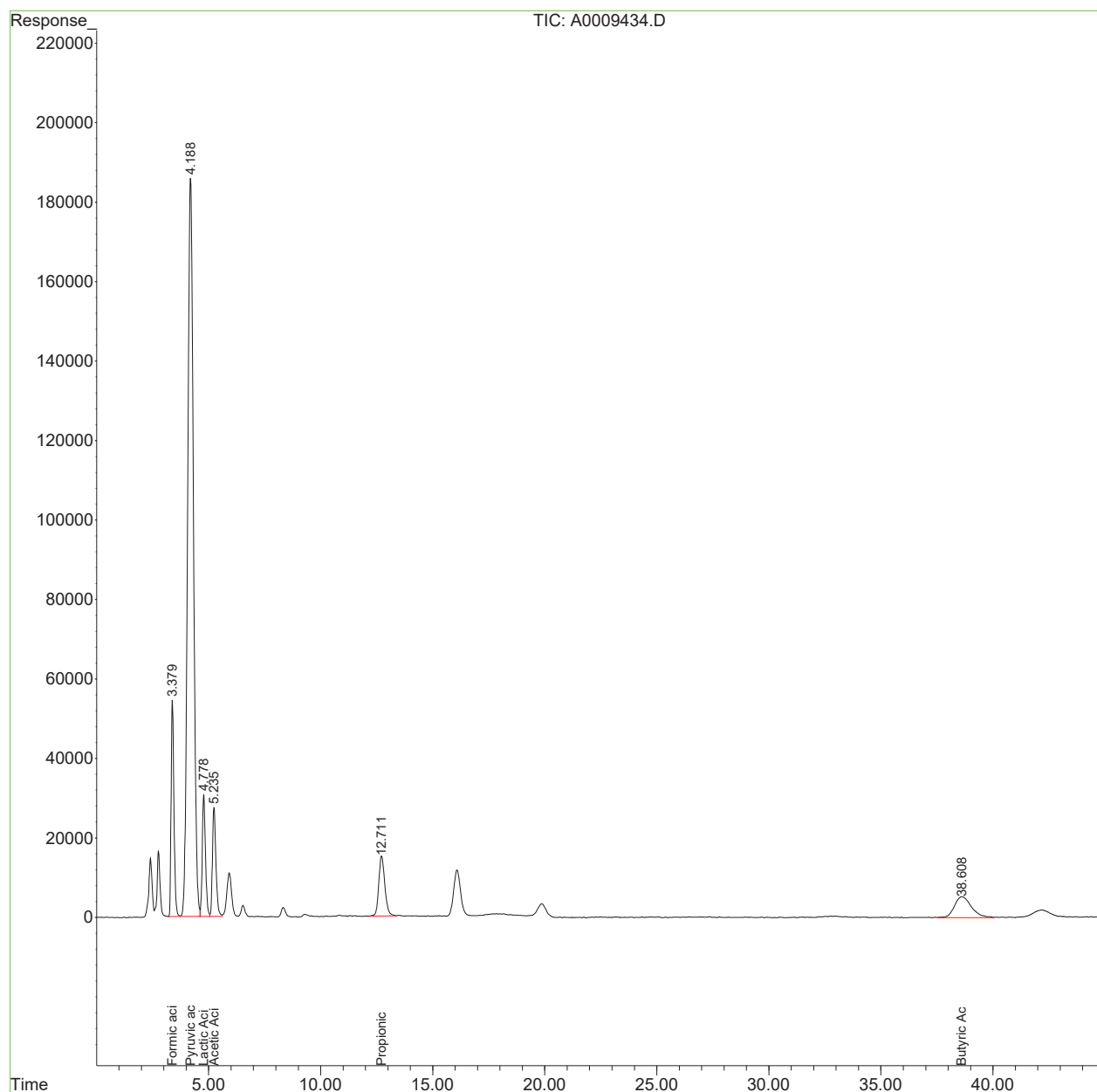
Quantitation Report (QT Reviewed)

1st AF 01/27/23
2nd BA 01/27/23

Data Path : I:\ACQUDATA\HPLC05\data\012523\
Data File : A0009434.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 03:48:38
Operator : AFelser
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jan 27 08:13:46 2023
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Fri Jan 27 08:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synerg hydro rp
Signal Info : UV wave 210



Metabolic Acids	Analyst: <u>AFisher</u>	Run Method: <u>NEWMETA</u>
Instrument: R-HPLC-05	Date: <u>6/29/12</u>	Quant Method: <u>MAC062912</u>
Setup:	LIMS Run#: <u>769345</u>	
Column: <u>Symmetry Hyper RP</u>	Col. Temp: <u>35°C</u>	Flow: <u>0.6 mL/min</u>
Mobile Phase: <u>0.01M KH₂PO₄ in H₂O</u>	ul Inj.: <u>50</u>	
Mobile Phase ID: <u>0-760-85G</u>		

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
1	BW			<2	n/a	A0008585	Y	
1	BW					86	Y	
2	Inst BW					87	Y	
3	0.1 std	100 µL/min	1 std			88	Y	
4	0.2 std		2 std			89	N	not applied
5	0.2 std		2 std			90	Y	
6	1 std	4 µL/min	223168			91	Y	
7	2 std	2 µL/min				92	Y	
8	5 std	5 µL/min				93	Y	
9	10 std	10 µL/min				94	Y	
10	20 std	20 µL/min				95	Y	
11	50 std	50 µL/min				96	Y	
12	100 std	100 µL/min				97	Y	
13	200 std	200 µL/min				98	Y	
14	CCU	50 µL/min	223128			99	Y	
15	CCU	50 µL/min	223161			600	Y	
16	MA					01	Y	
17	LC	20 µL/min	222118			02	Y	
18	SW					03	Y	
19	R2205267-001					04	Y	
20			222118			05	Y	
21						06	Y	
16	BW					07	N	
22	R2205267-002					08	Y	
23						09	Y	
24						10	Y	
15	CCU	50 µL/min	223161			11	Y	
25	R2205267-005					12	Y	
26						13	Y	
27	R2205267-001			7-82		14	N	>4L Rpt @ 1/3
28				7-82		15	N	>4L Rpt @ 1/3
16	BW			<2		16	N	

Primary: 223161 exp: 8/21/12 Secondary: 222128 Exp: 9/11/12

pH Paper: 223419 Acidified DI: 223766 Filters: n/a

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Runlog HPLC05 r0

3/18/22

O-1086 Page 21 of 100

15 CCU 50 µL/min 223161 <2 n/a A0008617 Y

Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008599.D
Signal(s) : dad1A.ch
Acq On : 30-Jun-2022, 00:17:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:33:40 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.009	4812934	50.513 ppm
2) T Pyruvic acid	3.495	32764223	51.361 ppm
3) T Lactic Acid	3.896	3038084	54.179 ppm
4) T Acetic Acid	4.266	2922783	51.340 ppm
5) T Propionic Acid	9.061	2799752	52.836 ppm m
6) T Butyric Acid	24.965	3232942	57.711 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

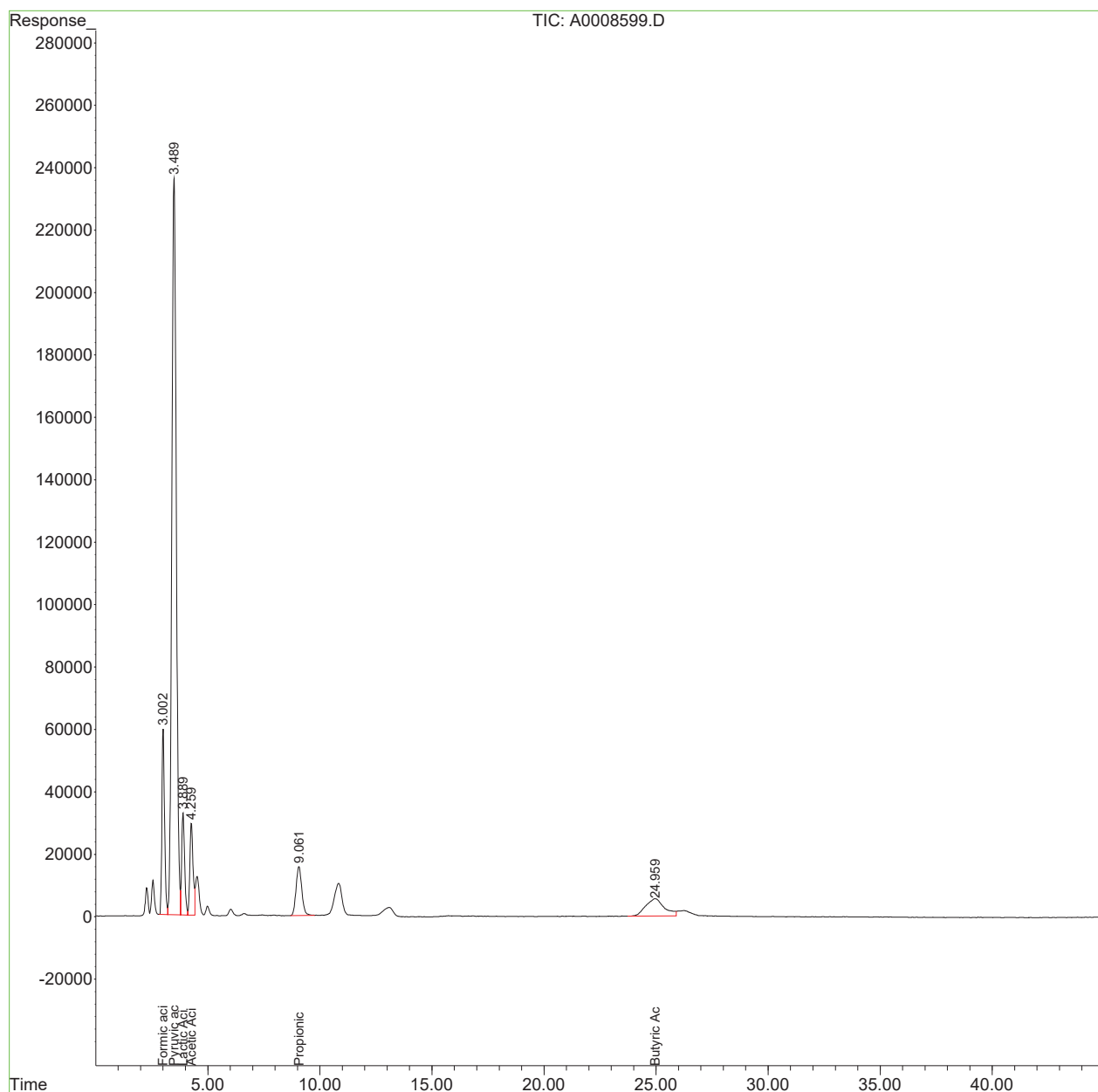
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008599.D
Signal(s) : dad1A.ch
Acq On : 30-Jun-2022, 00:17:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:33:40 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008587.D
Signal(s) : dad1A.ch Time/Date Error AF 7/1/22
Acq On : ~~30-Dec-2000, 16:47:45~~ 29-Jun-2022, 14:49
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 01 08:30:55 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 12:43:24 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	0.000	0	N.D.	ppm
2) T Pyruvic acid	0.000	0	N.D.	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm
4) T Acetic Acid	0.000	0	N.D.	ppm
5) T Propionic Acid	0.000	0	N.D.	ppm
6) T Butyric Acid	0.000	0	N.D.	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

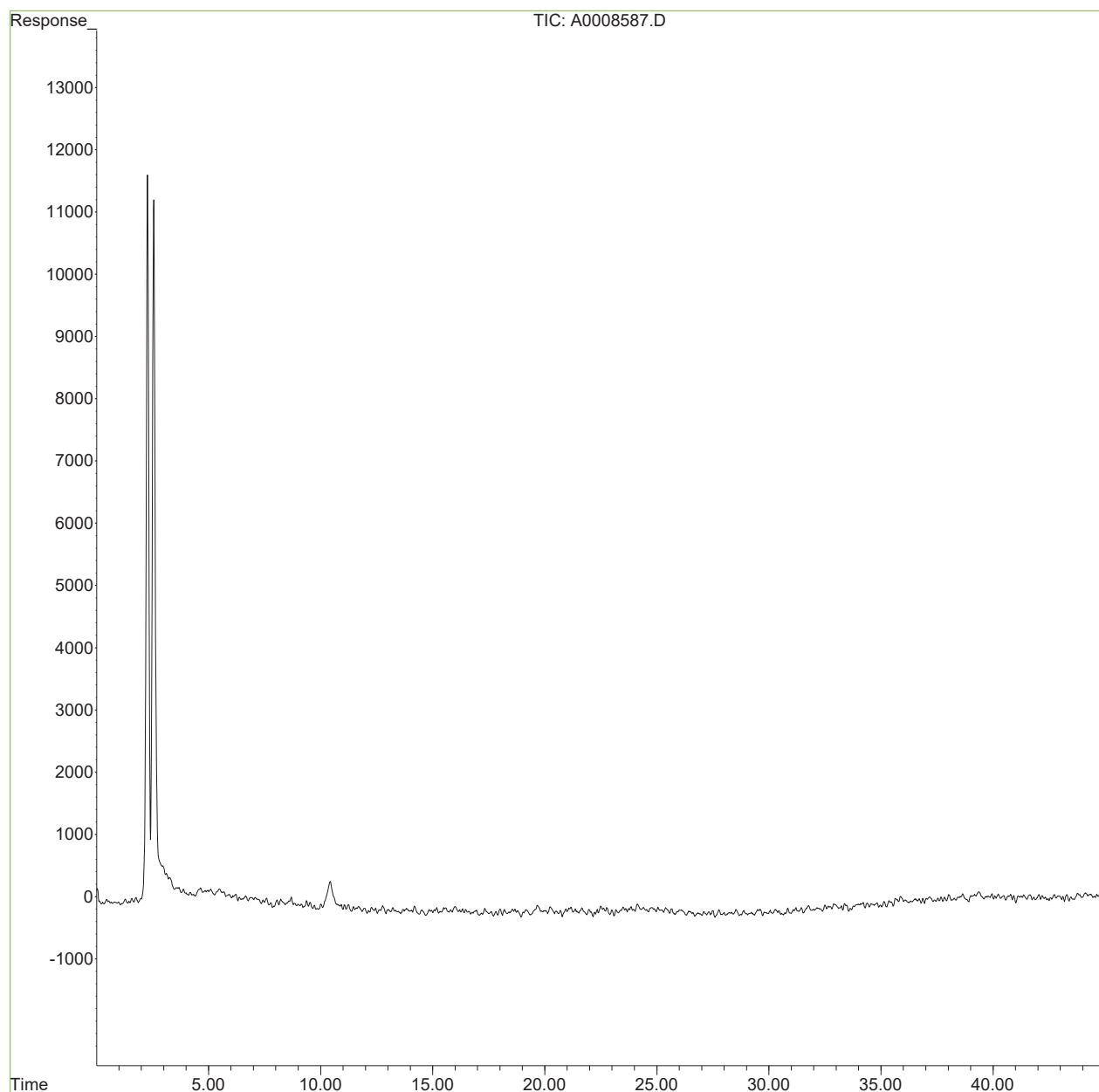
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008587.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 16:47:45
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jul 01 08:30:55 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 12:43:24 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008588.D
Signal(s) : dad1A.ch Time/Date Error AF 7/1/22
Acq On : ~~29-Dec-2000, 23:10:00~~ 29-Jun-2022, 15:36
Operator : AFelser
Sample : 0.1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:24:54 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	0.000	0	N.D.	ppm
2) T Pyruvic acid	3.490	61647	0.091	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm
4) T Acetic Acid	0.000	0	N.D.	ppm
5) T Propionic Acid	0.000	0	N.D.	ppm
6) T Butyric Acid	0.000	0	N.D.	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

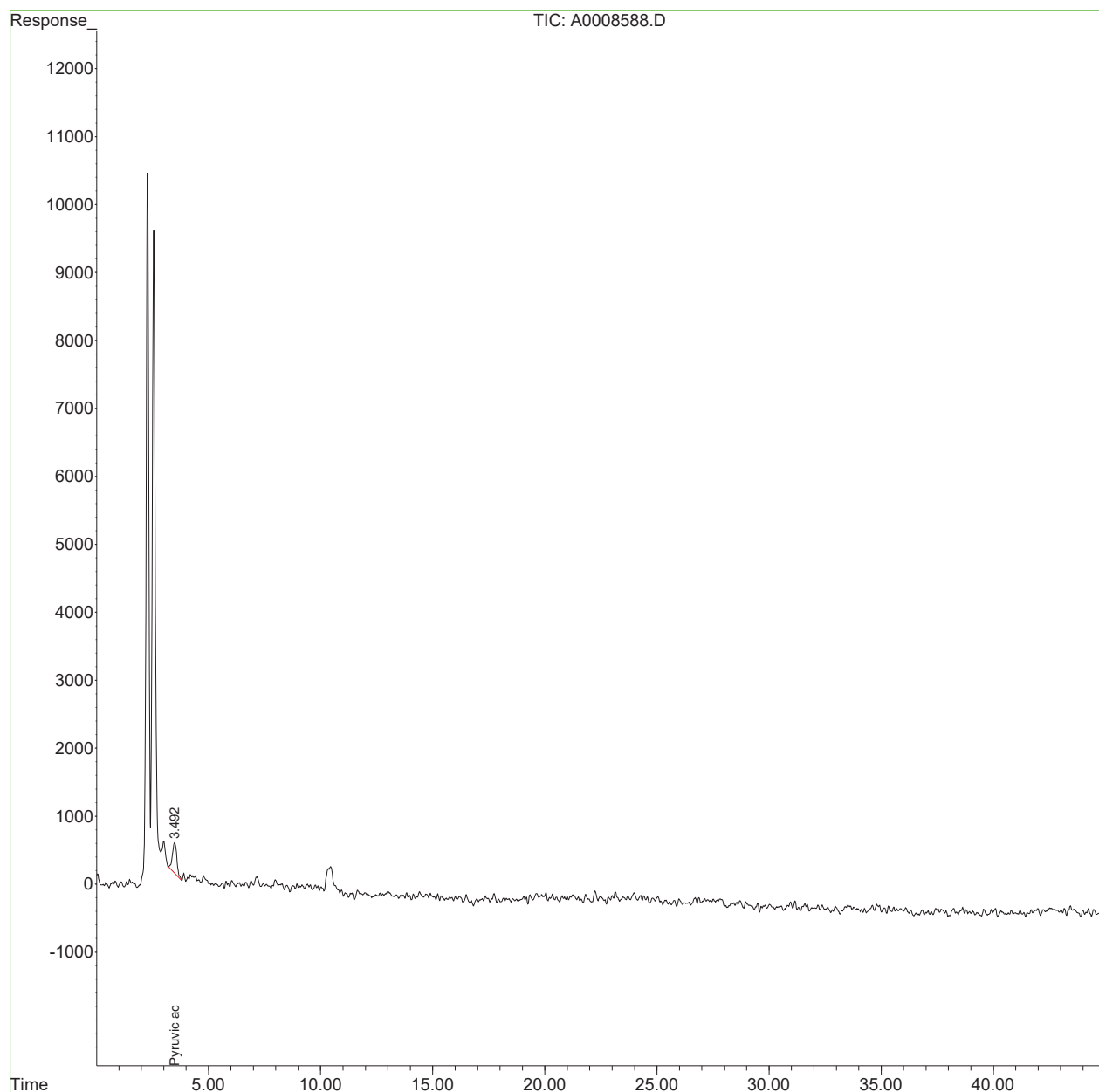
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008588.D
Signal(s) : dad1A.ch
Acq On : 29-Dec-2000, 23:10:00
Operator : AFelser
Sample : 0.1 STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:24:54 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008590.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 17:12:57
Operator : AFelser
Sample : 0.2 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:24:58 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) t Formic acid	0.000	0	N.D.	ppm d
2) T Pyruvic acid	3.495	115087	0.171	ppm
3) T Lactic Acid	0.000	0	N.D.	ppm
4) T Acetic Acid	0.000	0	N.D.	ppm
5) T Propionic Acid	0.000	0	N.D.	ppm
6) T Butyric Acid	0.000	0	N.D.	ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

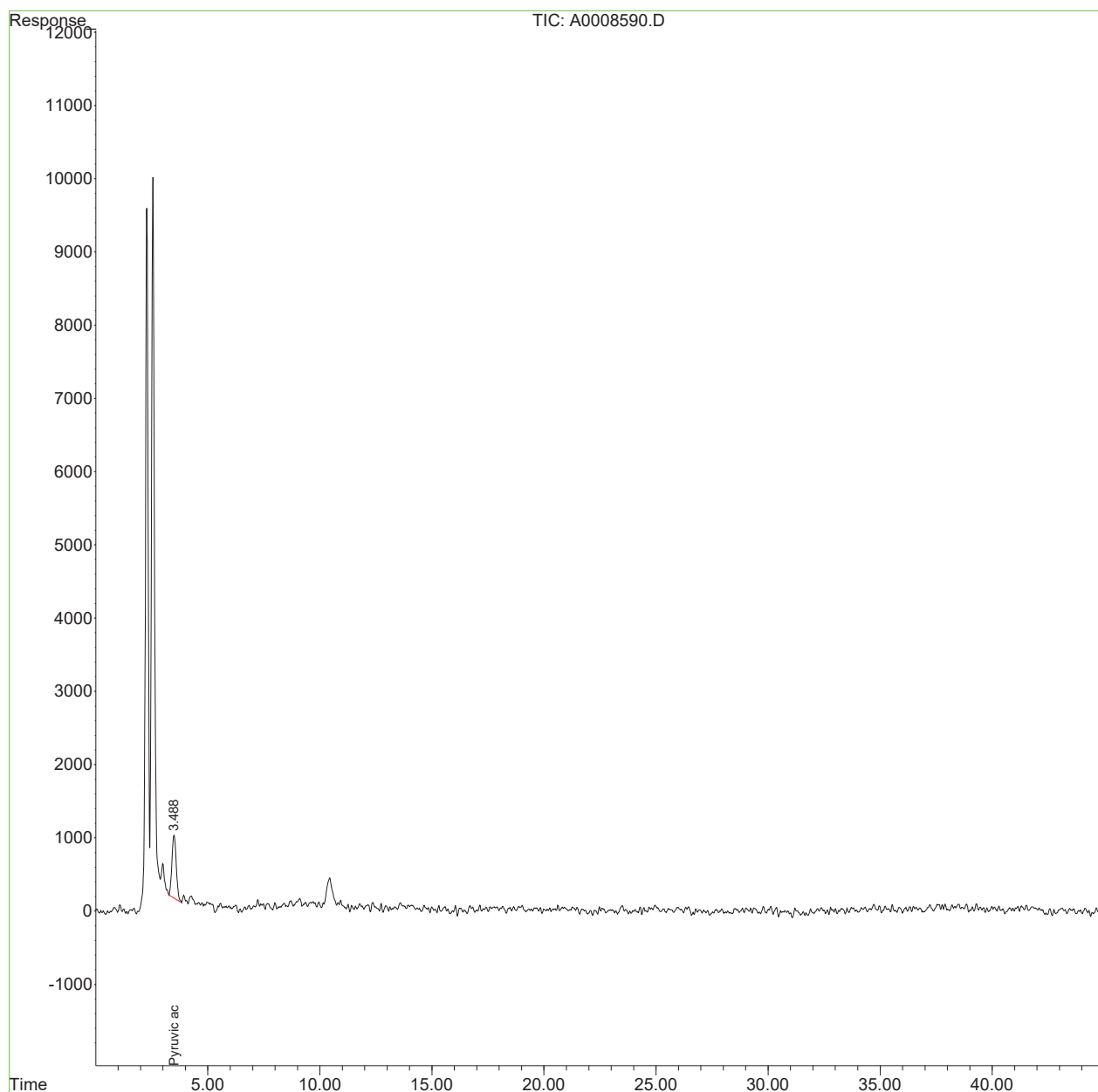
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008590.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 17:12:57
Operator : AFelser
Sample : 0.2 STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:24:58 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



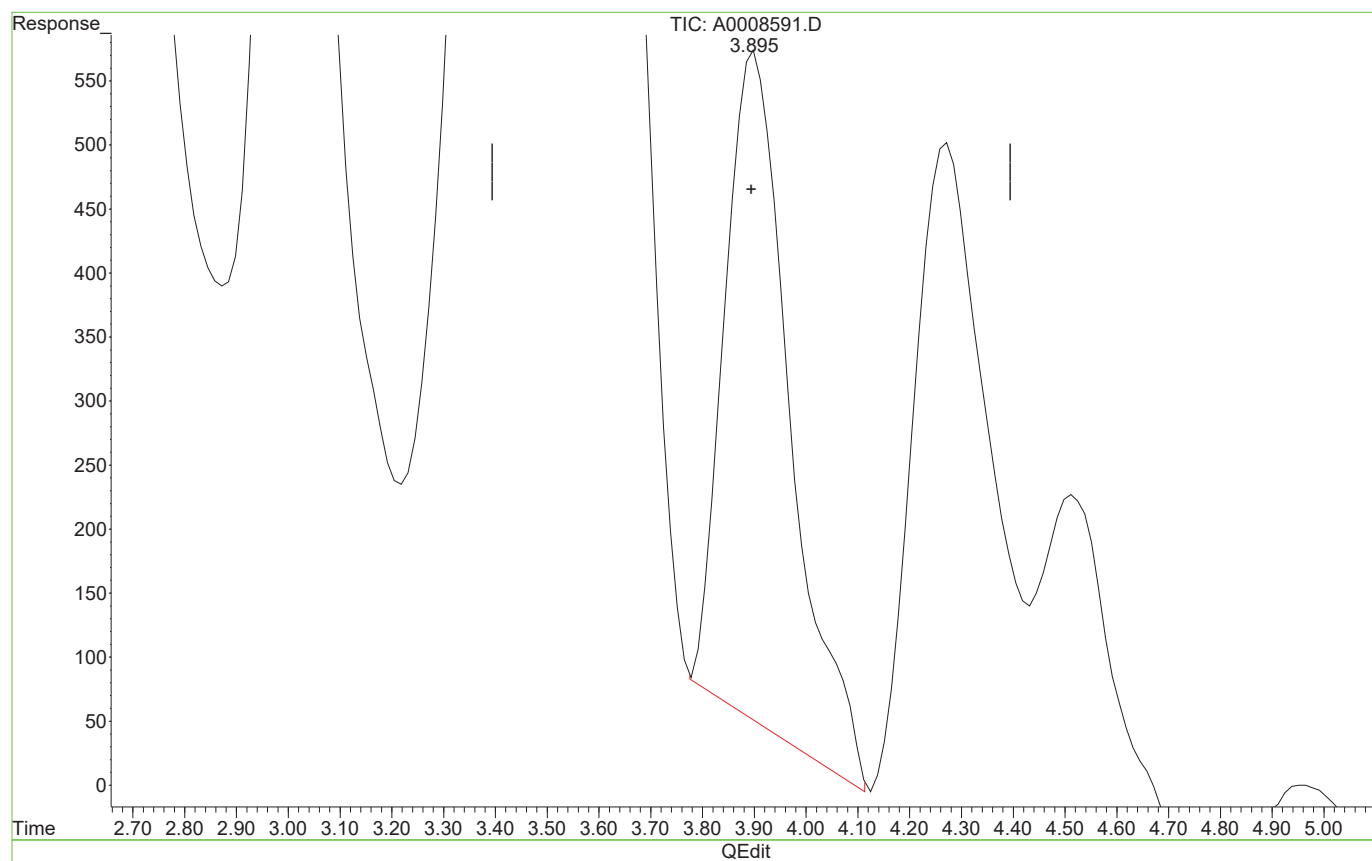
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008591.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 18:00:03
Operator : AFelser
Sample : 1 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:00 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)
3.895min 0.847 ppm m
response 46208

Manual Integration:
After
Poor integration.
06/30/22

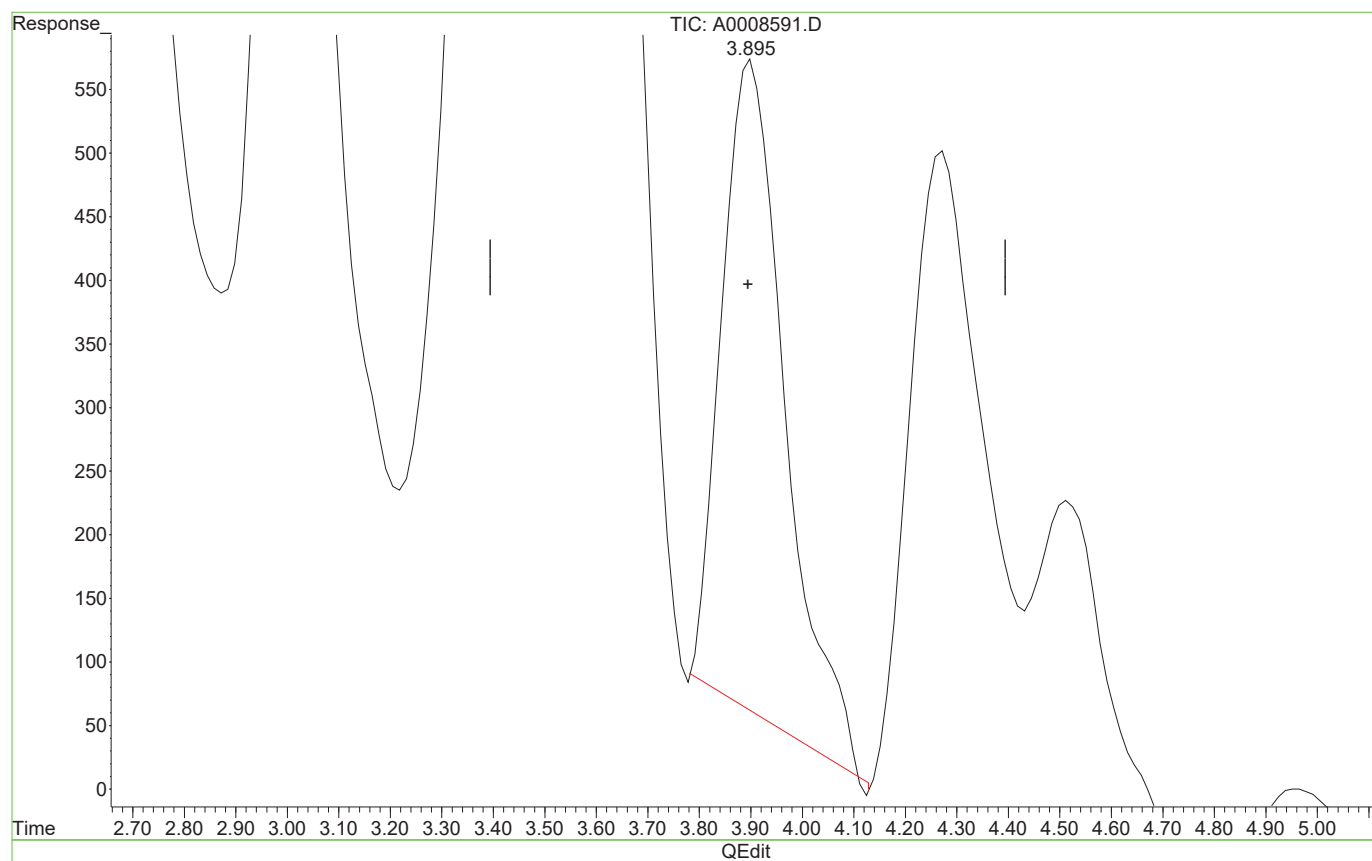
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008591.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 18:00:03
Operator : AFelser
Sample : 1 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:00 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)
3.902min 0.807 ppm
response 44012

Manual Integration:
Before
06/30/22

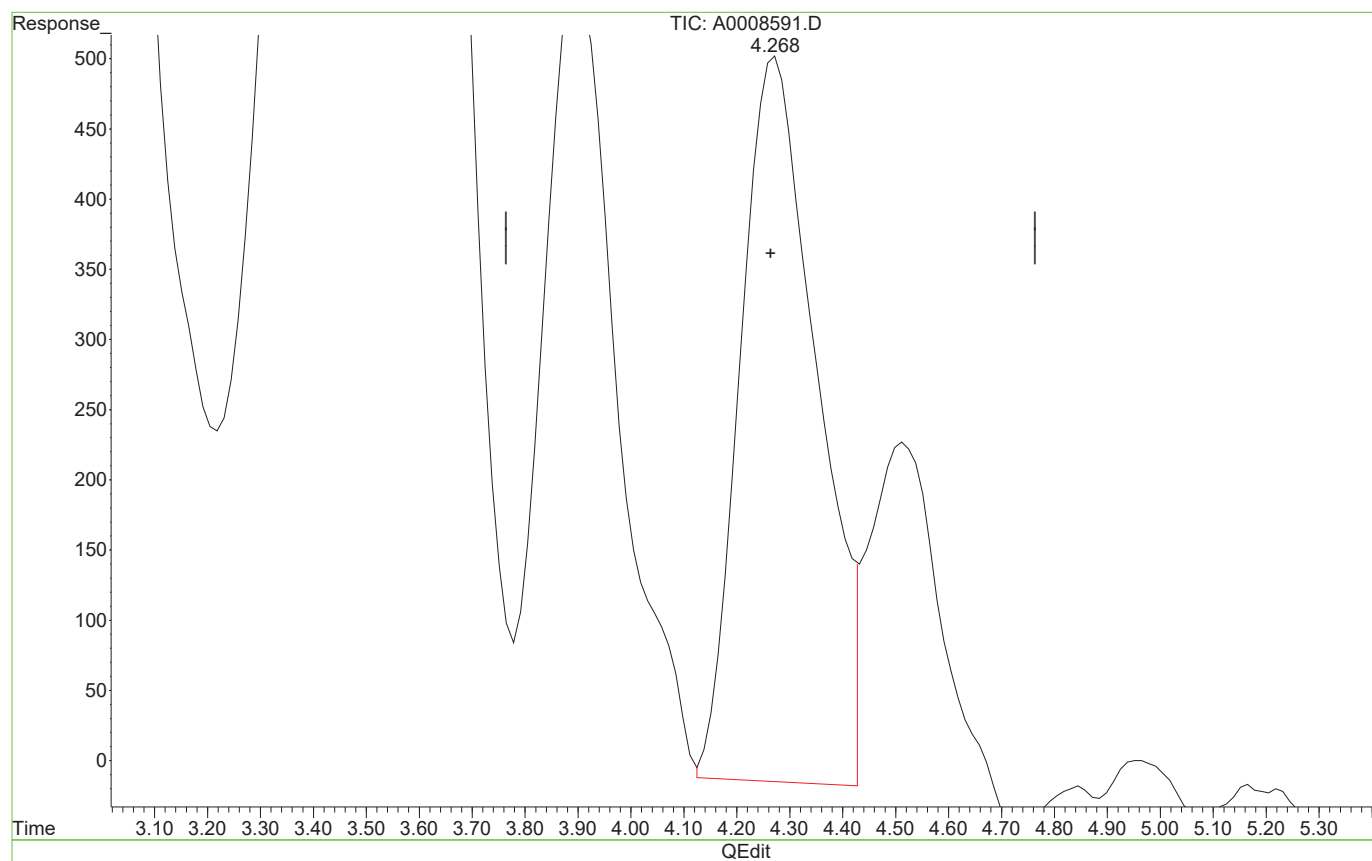
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008591.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 18:00:03
Operator : AFelser
Sample : 1 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:00 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)
4.268min 0.887 ppm m
response 51794

Manual Integration:
After
Poor integration.
06/30/22

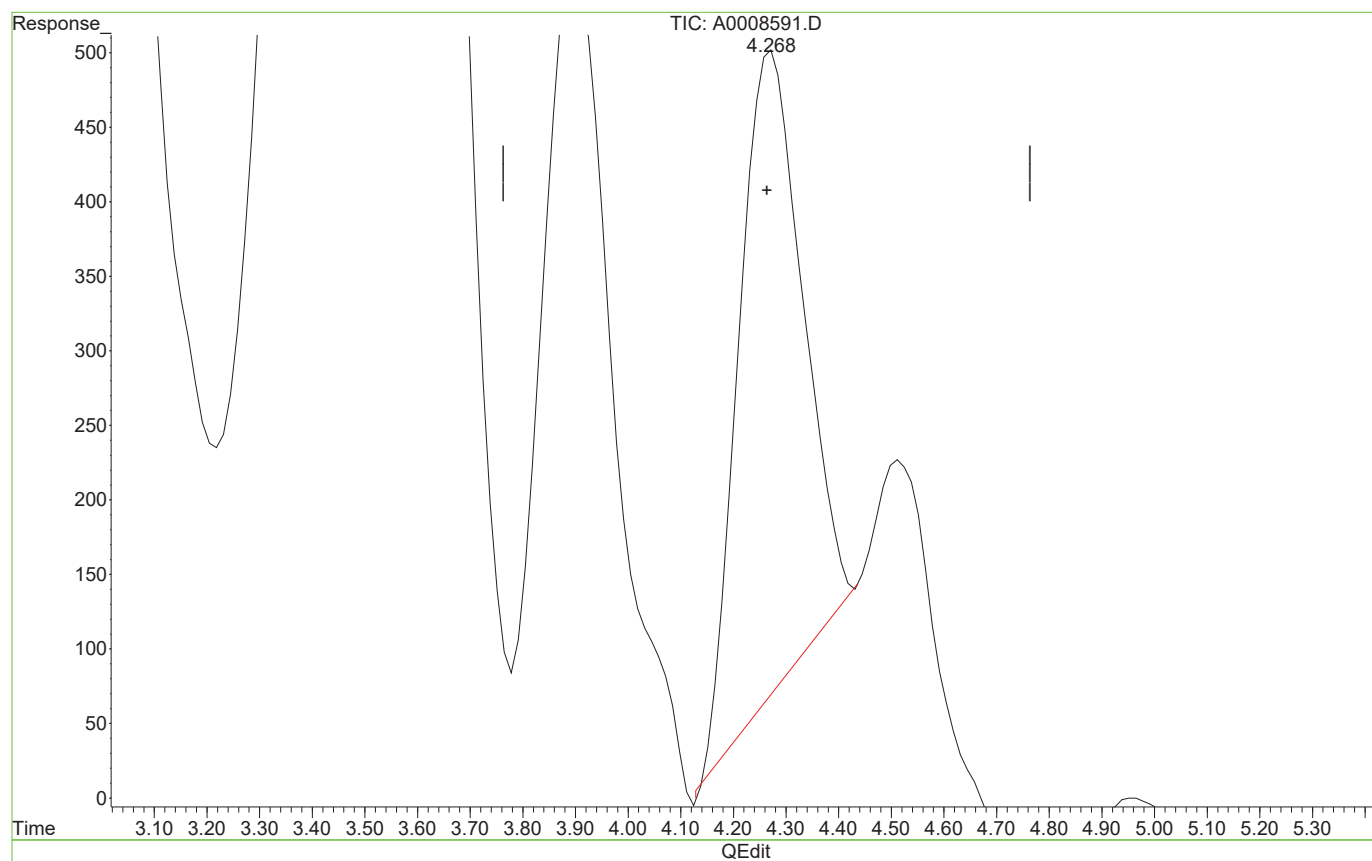
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008591.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 18:00:03
Operator : AFelser
Sample : 1 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:00 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)
4.274min 0.621 ppm
response 36230

Manual Integration:
Before

06/30/22

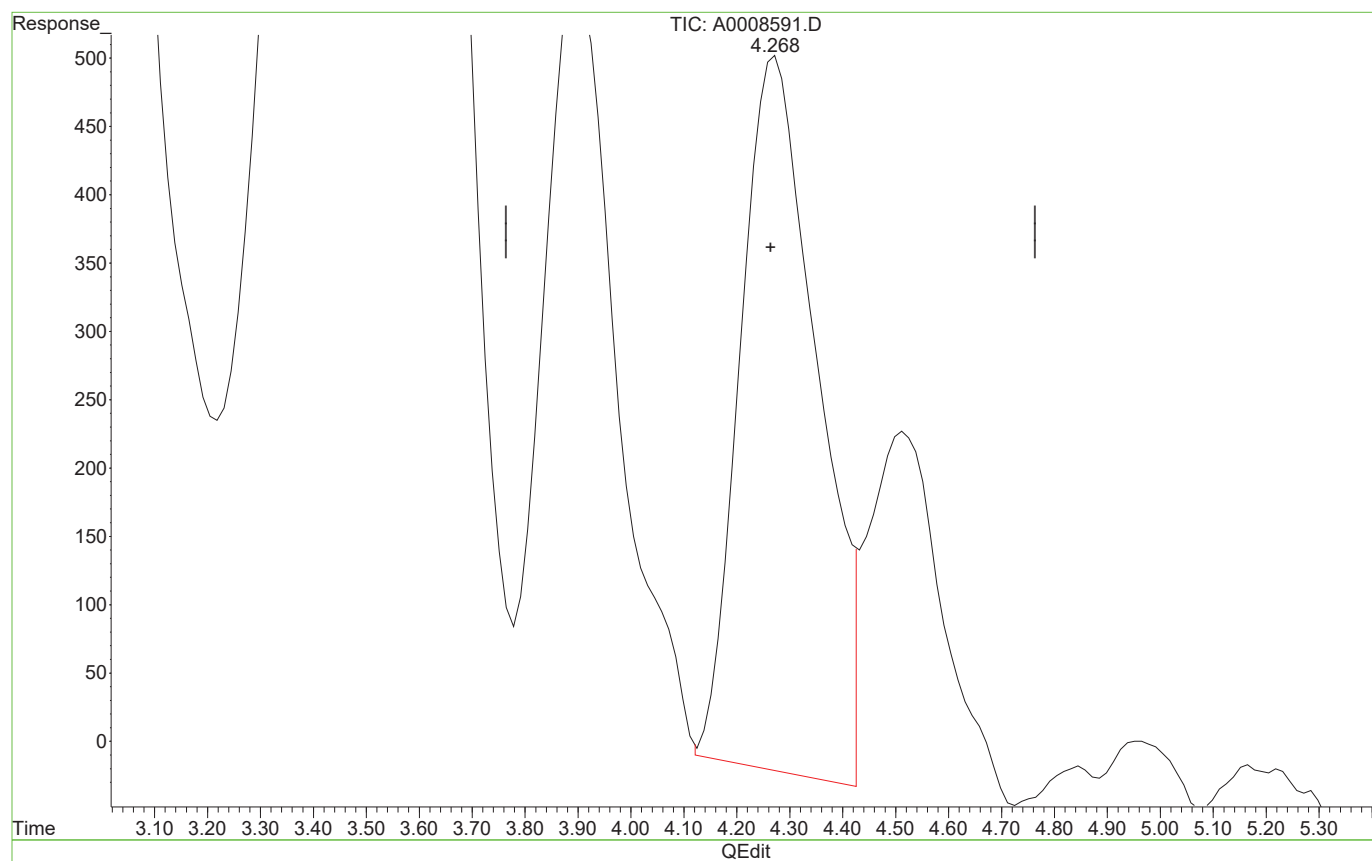
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008591.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 18:00:03
Operator : AFelser
Sample : 1 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:00 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)
4.268min 0.912 ppm m
response 53260

Manual Integration:
After
Poor integration.
06/30/22

Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008591.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 18:00:03
Operator : AFelser
Sample : 1 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:00 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.013	82354	0.836 ppm
2) T Pyruvic acid	3.500	557344	0.827 ppm
3) T Lactic Acid	3.895	46208	0.847 ppm m
4) T Acetic Acid	4.268	53260	0.912 ppm m
5) T Propionic Acid	9.053	43891	0.821 ppm
6) T Butyric Acid	0.000	0	N.D. ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

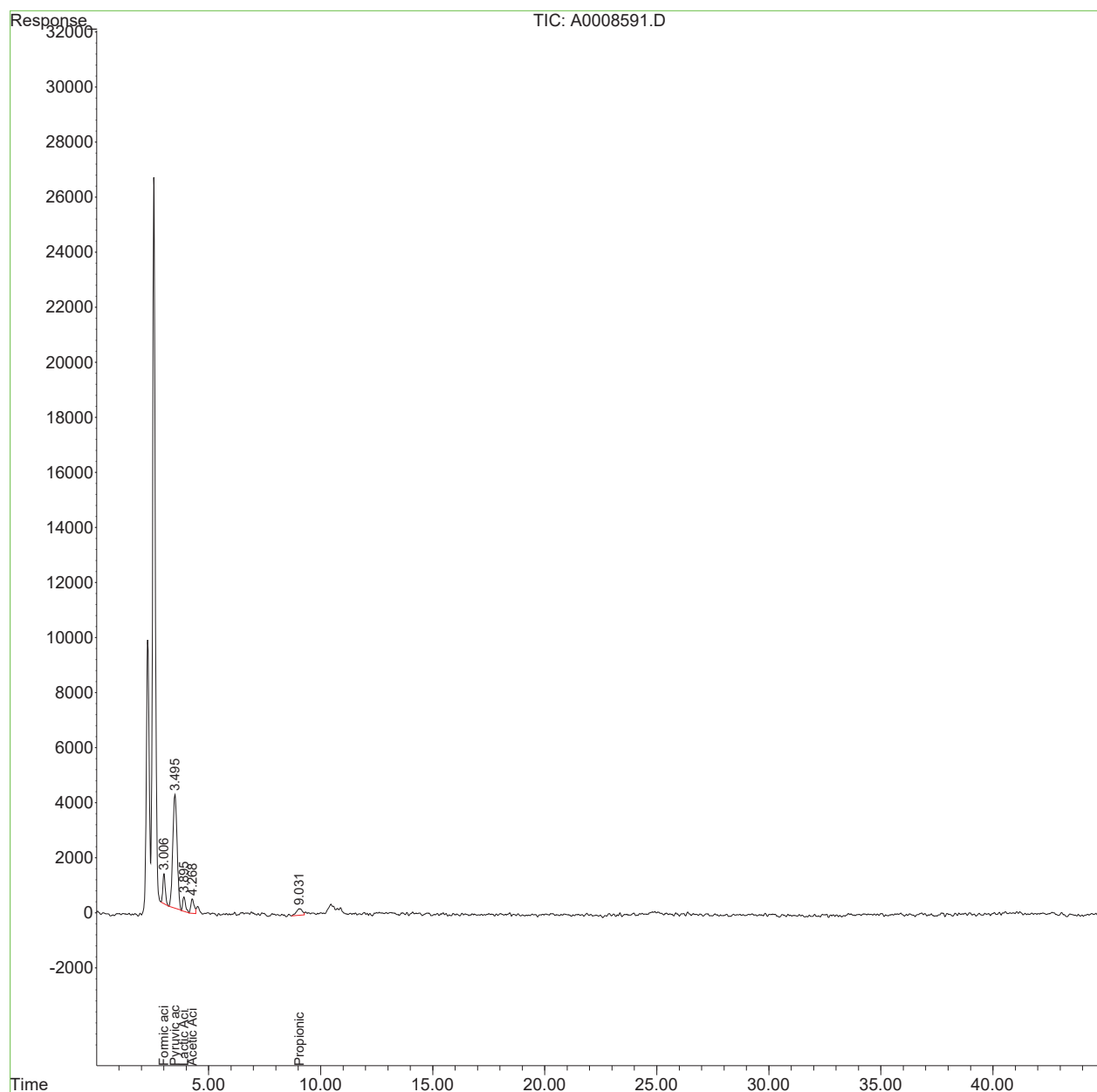
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008591.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 18:00:03
Operator : AFelser
Sample : 1 STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:00 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synerg hydro rp
Signal Info : UV wave 210



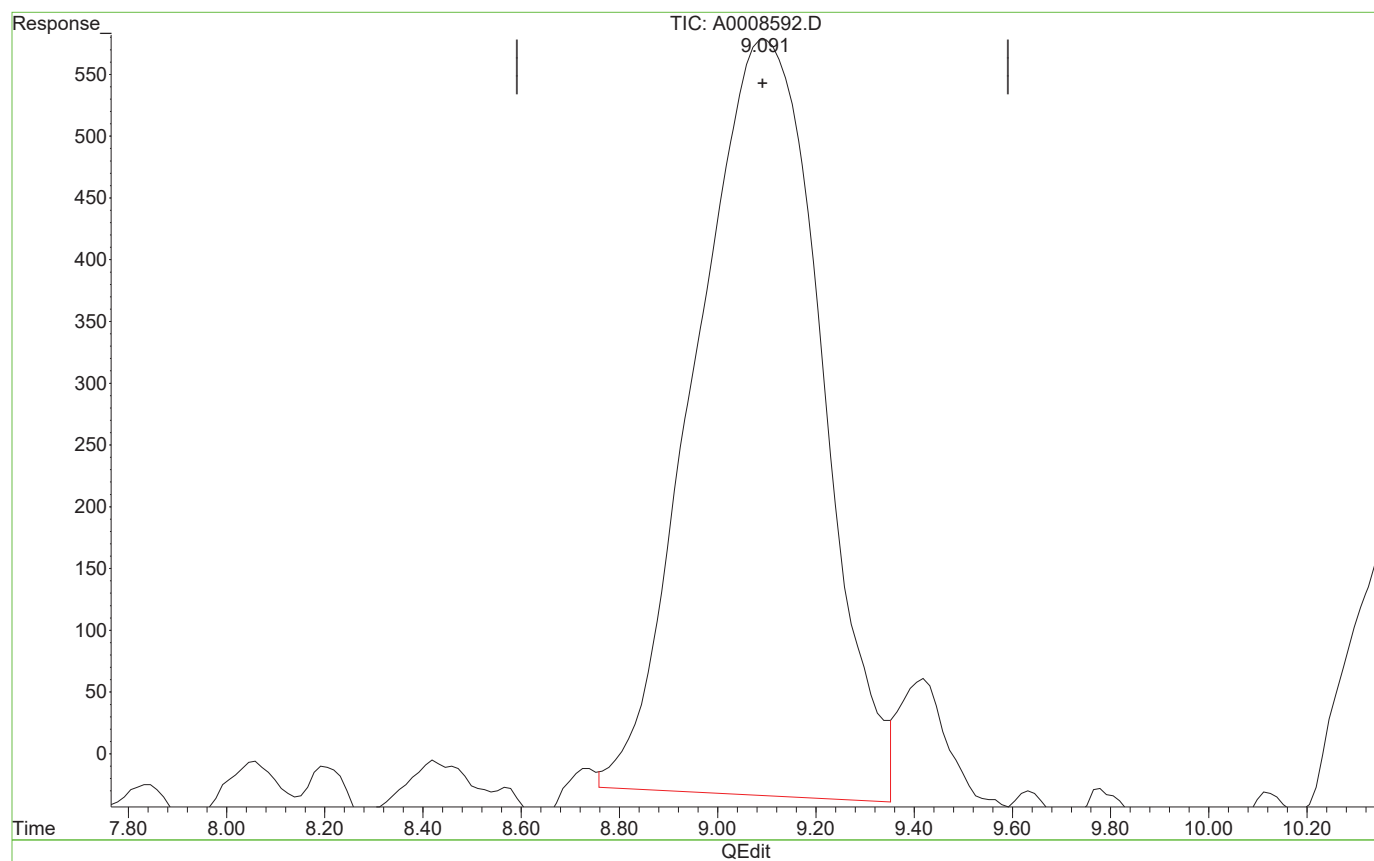
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008592.D
Signal(s) : dad1A.ch
Acq On : 29-Dec-2000, 23:47:45
Operator : AFelser
Sample : 2 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:02 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.091min 2.041 ppm m
response 109154

Manual Integration:
After
Poor integration.
06/30/22

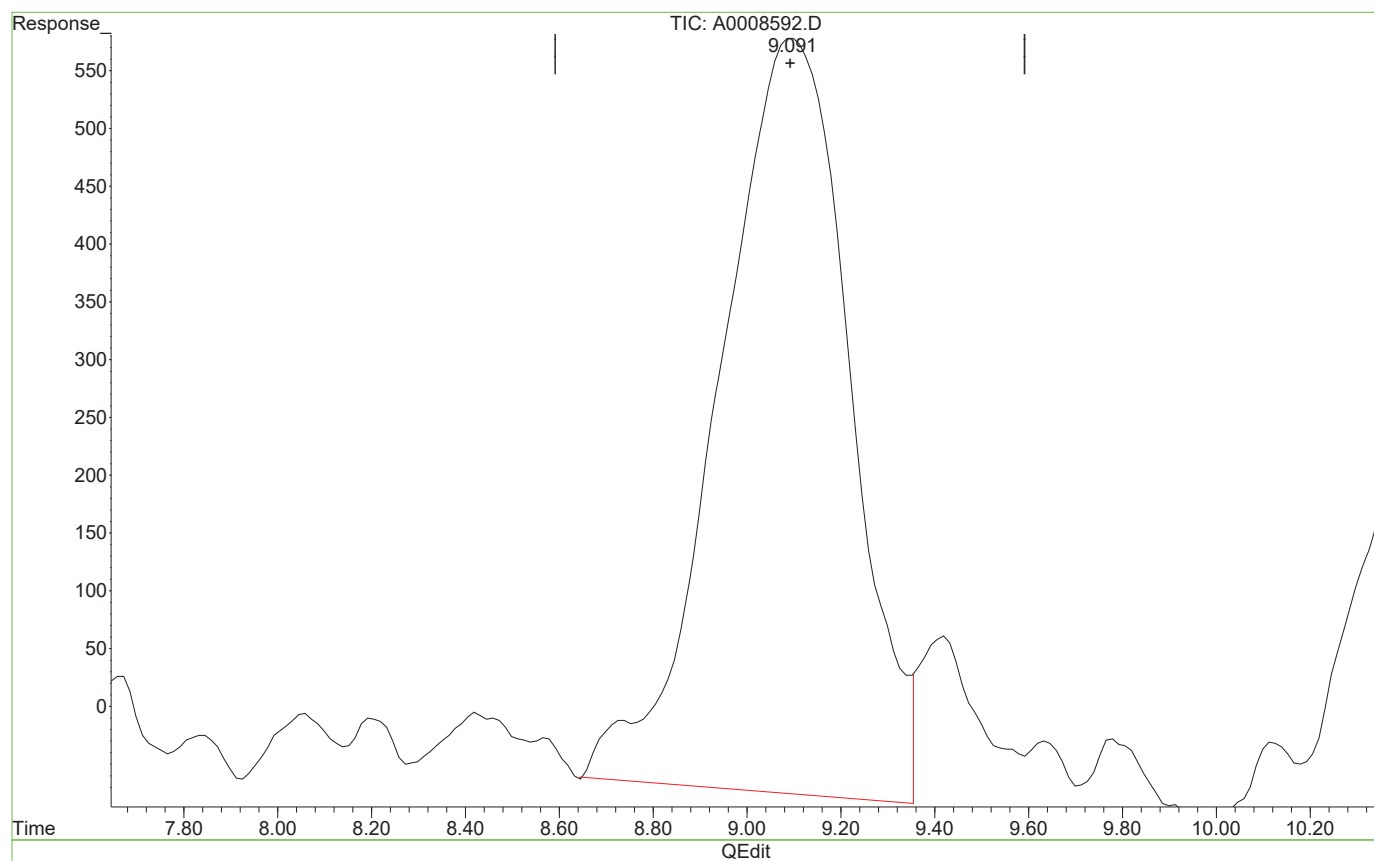
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008592.D
Signal(s) : dad1A.ch
Acq On : 29-Dec-2000, 23:47:45
Operator : AFelser
Sample : 2 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:02 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.099min 2.348 ppm
response 125603

Manual Integration:
Before

06/30/22

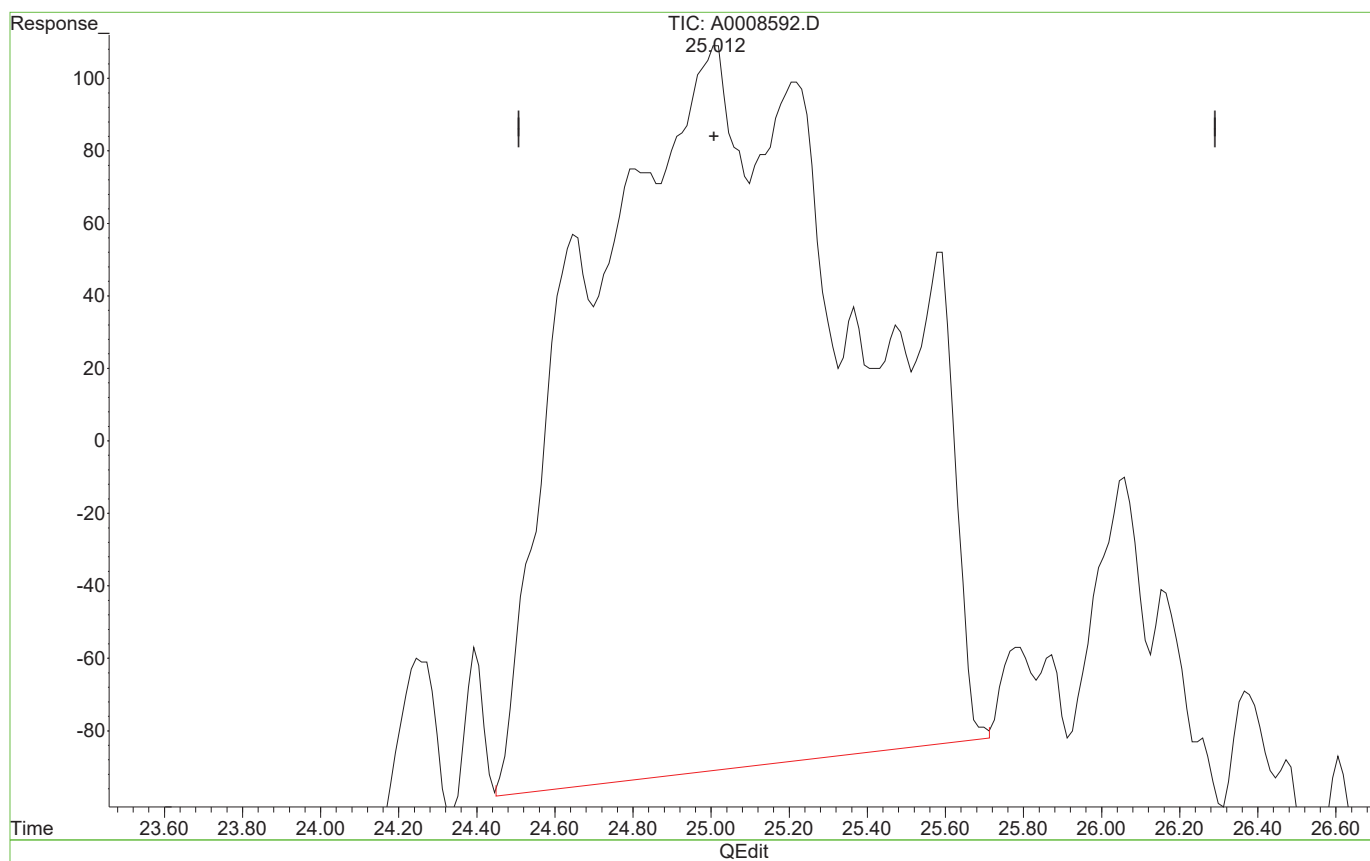
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008592.D
Signal(s) : dad1A.ch
Acq On : 29-Dec-2000, 23:47:45
Operator : AFelser
Sample : 2 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:02 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)
25.012min 1.827 ppm m
response 98203

Manual Integration:
After
Poor integration.
06/30/22

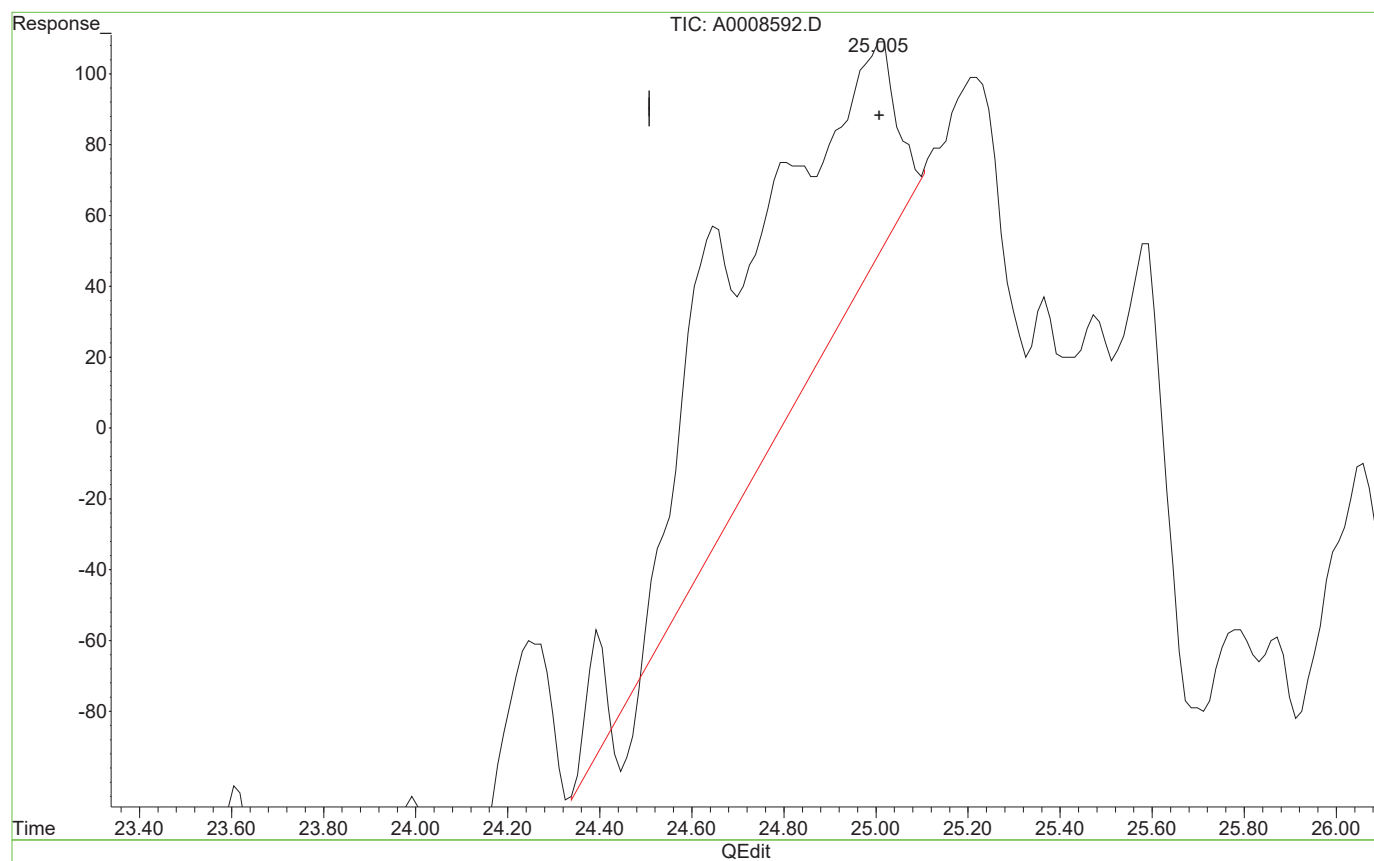
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008592.D
Signal(s) : dad1A.ch
Acq On : 29-Dec-2000, 23:47:45
Operator : AFelser
Sample : 2 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:02 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)
25.004min 0.368 ppm
response 19769

Manual Integration:
Before
06/30/22

Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008592.D
Signal(s) : dad1A.ch Time/Date Error AF 7/1/22
Acq On : ~~29-Dec-2000, 23:47:45~~ 29-Jun-2022, 18:45
Operator : AFelser
Sample : 2 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:02 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.012	205734	2.089 ppm
2) T Pyruvic acid	3.498	1379325	2.047 ppm
3) T Lactic Acid	3.901	105385	1.932 ppm
4) T Acetic Acid	4.272	116877	2.002 ppm
5) T Propionic Acid	9.091	109154	2.041 ppm m
6) T Butyric Acid	25.012	98203	1.827 ppm m

(f)=RT Delta > 1/2 Window

(m)=manual int.

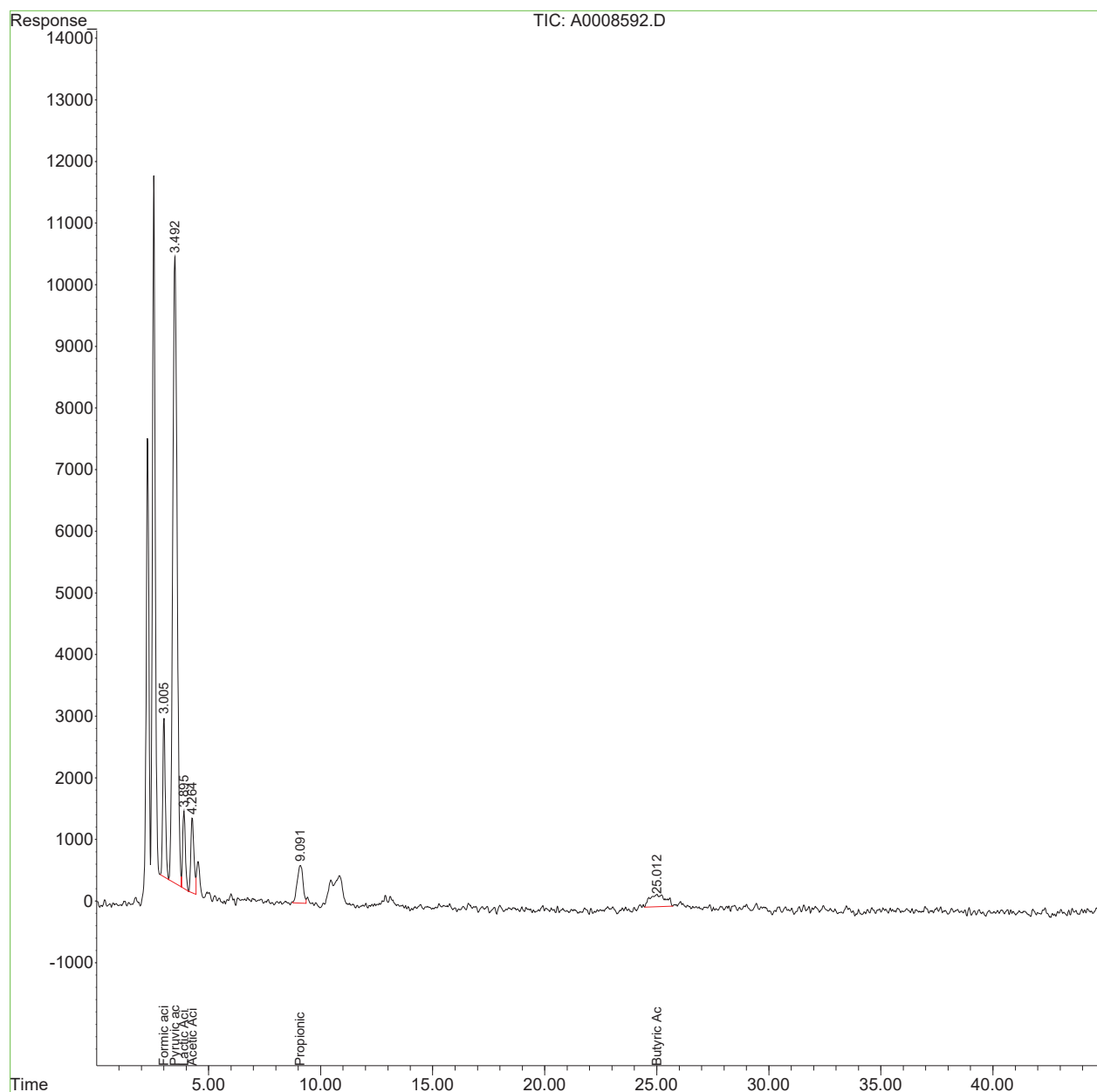
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008592.D
Signal(s) : dad1A.ch
Acq On : 29-Dec-2000, 23:47:45
Operator : AFelser
Sample : 2 STD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:02 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210



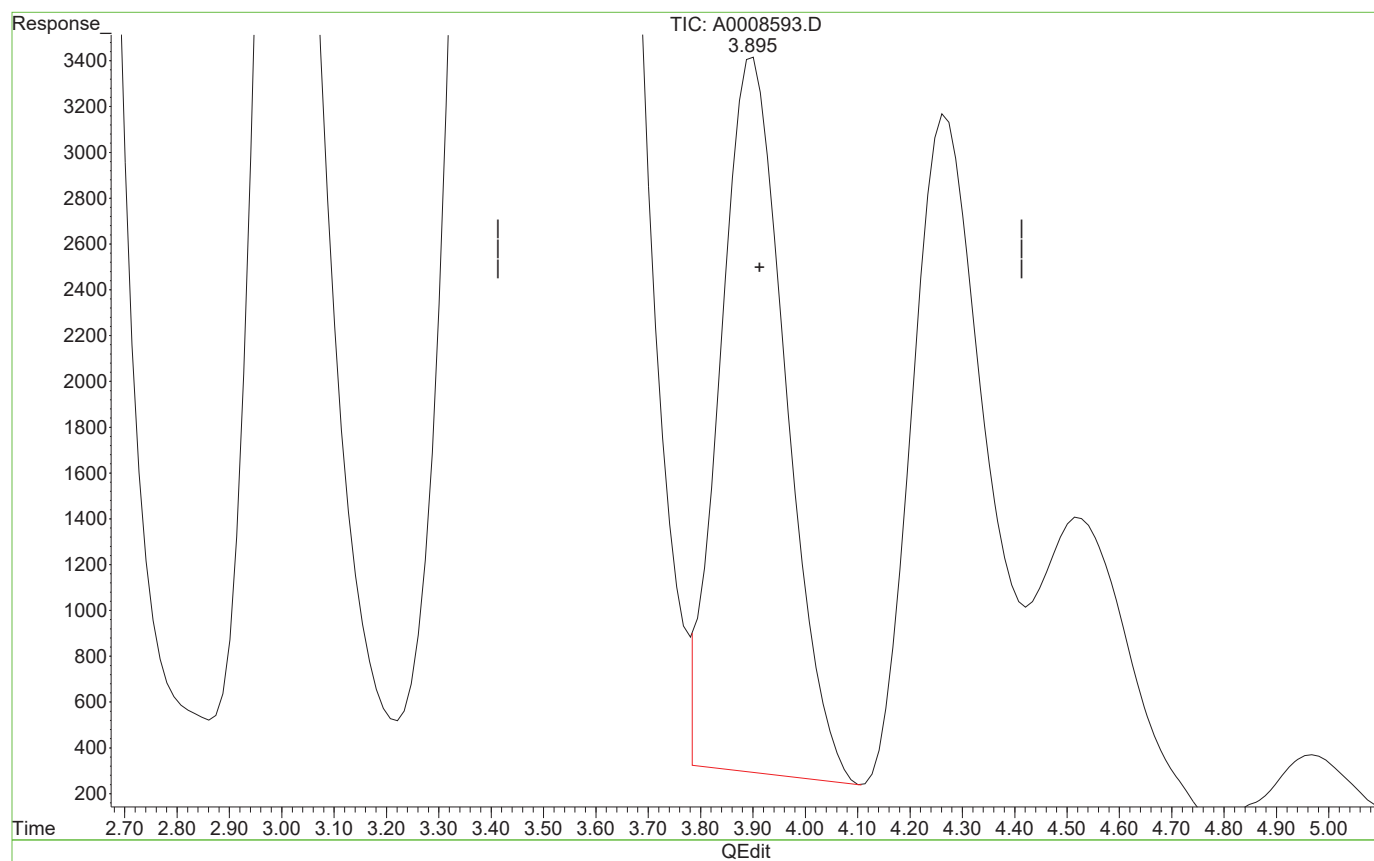
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)
3.895min 4.809 ppm m
response 272755

Manual Integration:
After
Poor integration.
06/30/22

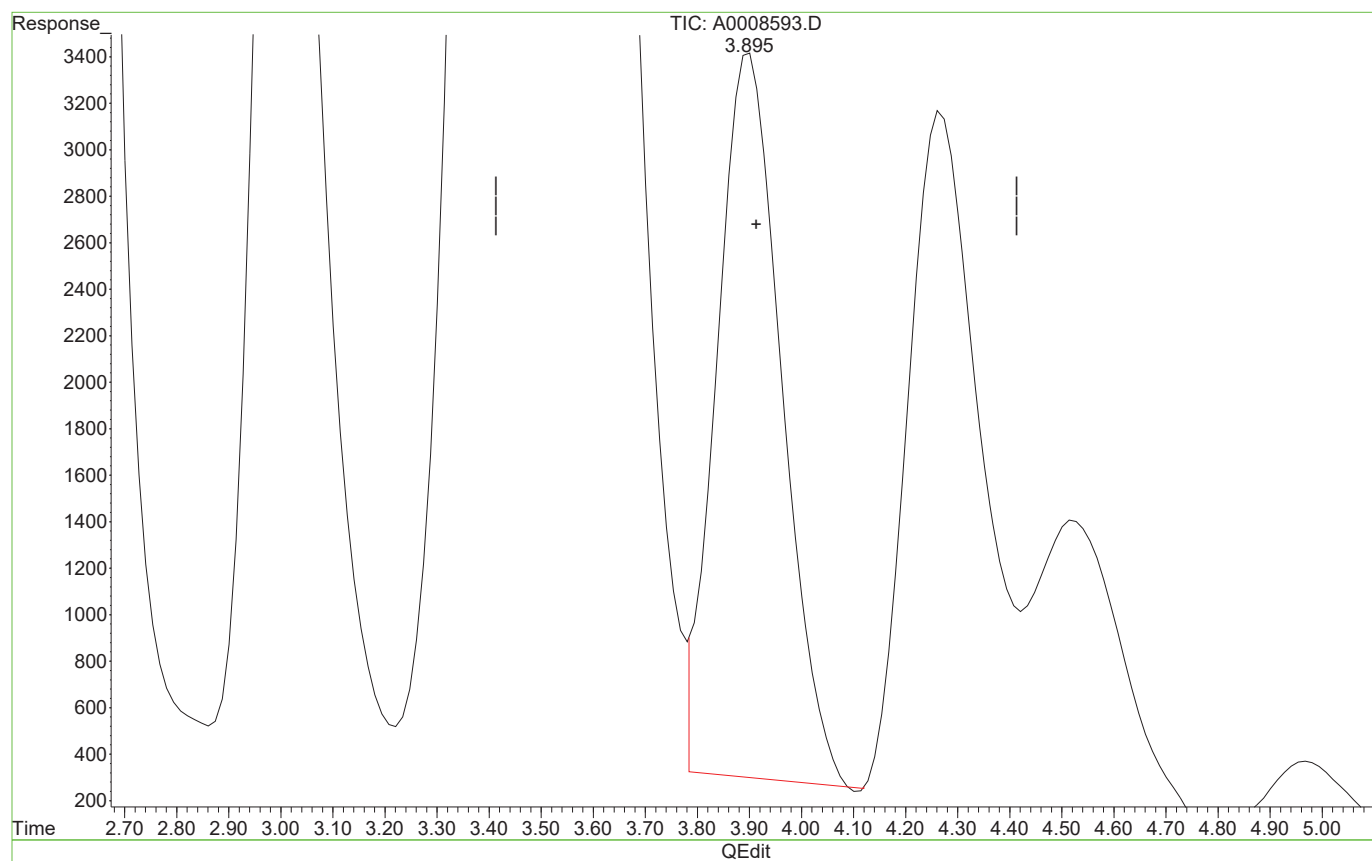
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(3) Lactic Acid (T)
3.901min 4.820 ppm
response 273374

Manual Integration:
Before

06/30/22

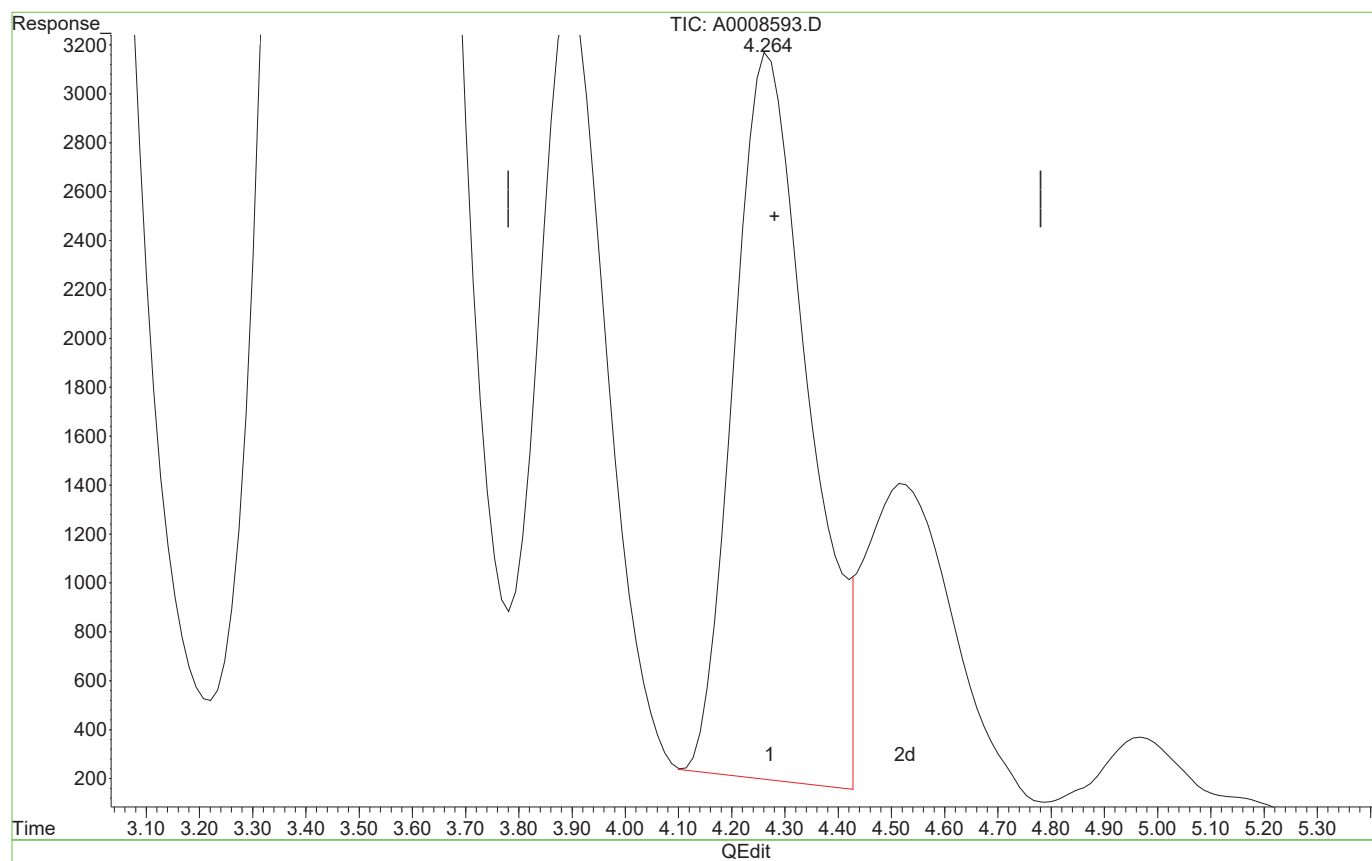
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)
4.264min 5.271 ppm m
response 291850

Manual Integration:
After
Poor integration.
06/30/22

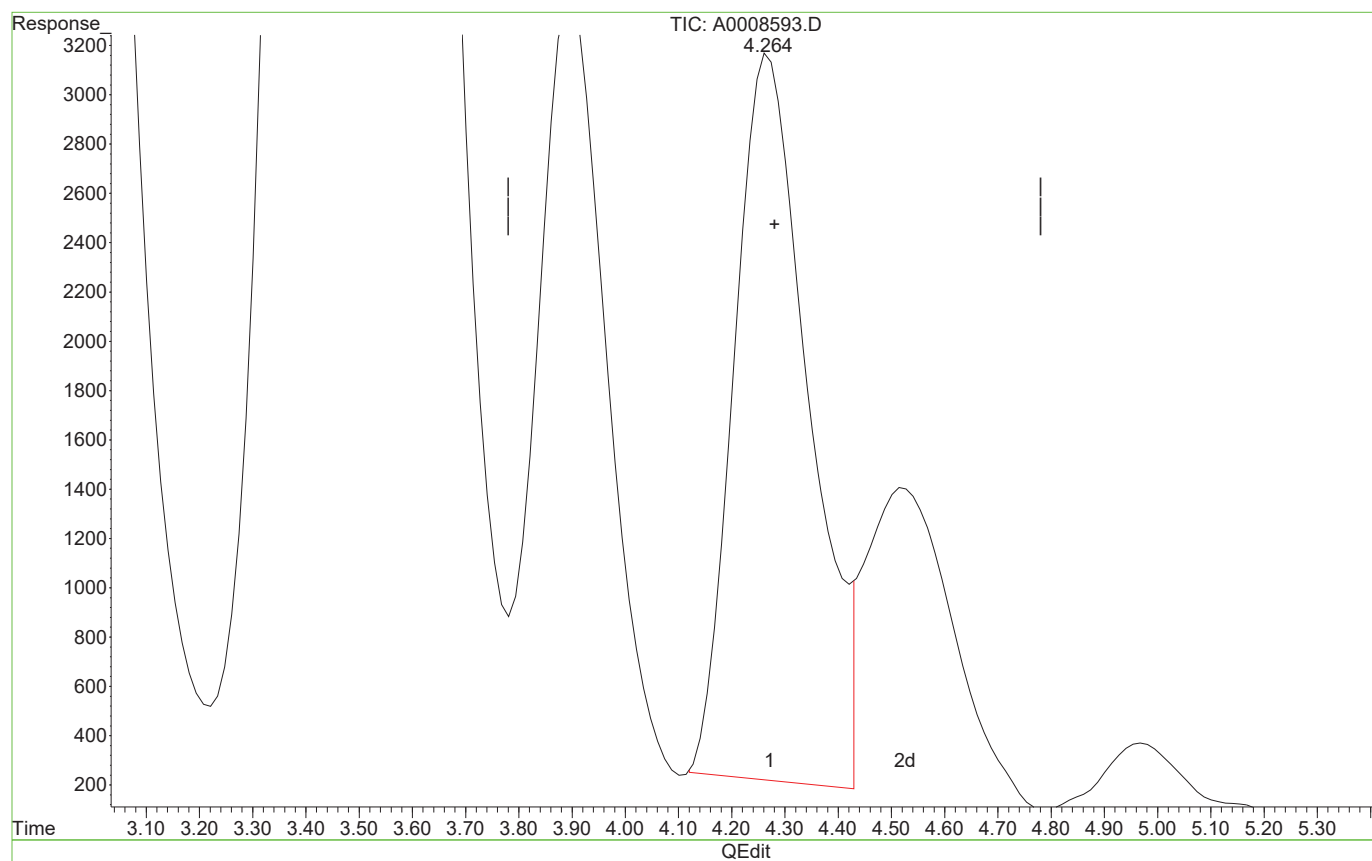
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(4) Acetic Acid (T)
4.271min 5.163 ppm
response 285903

Manual Integration:
Before

06/30/22

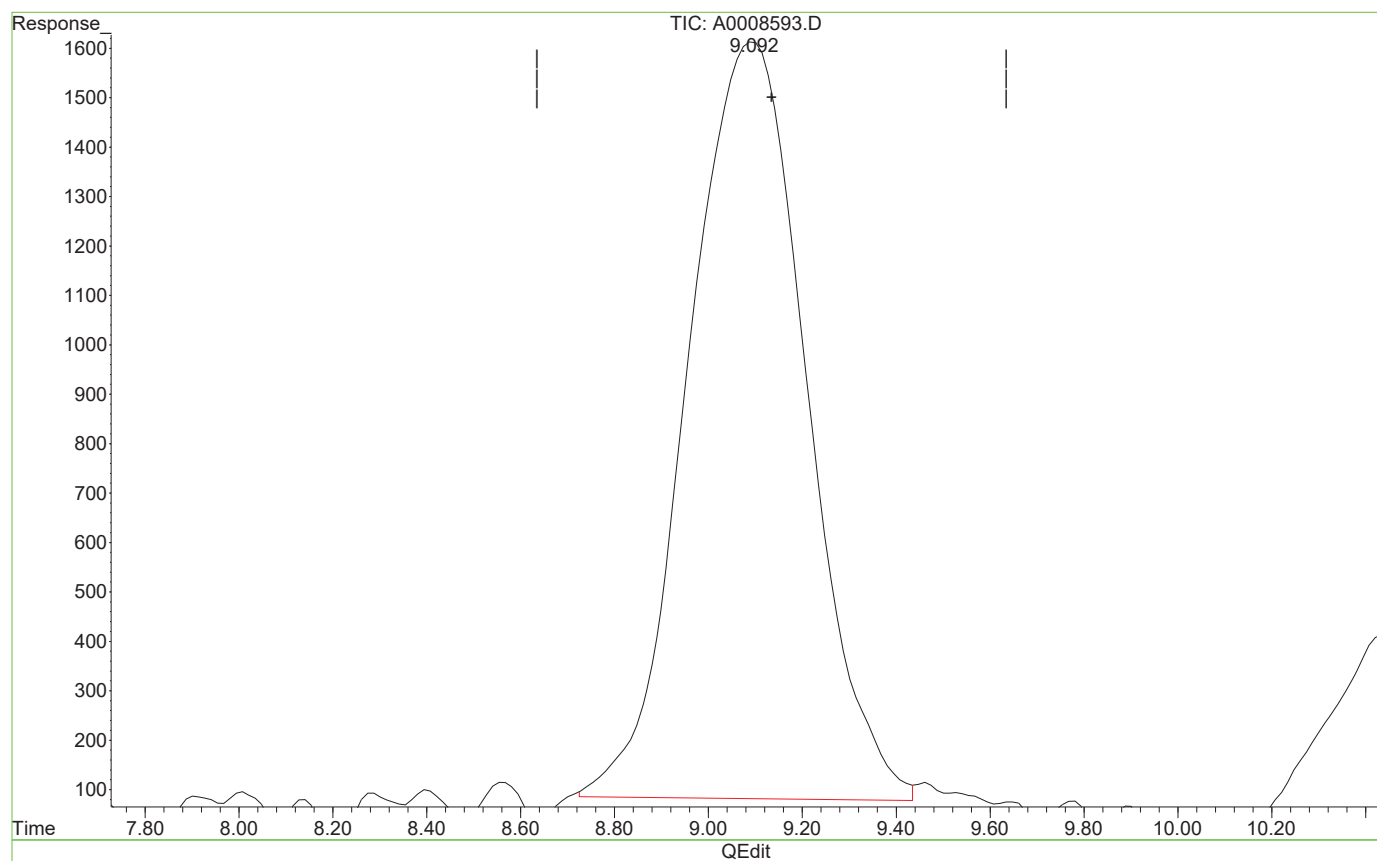
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.092min 4.597 ppm m
response 267442

Manual Integration:
After
Poor integration.
06/30/22

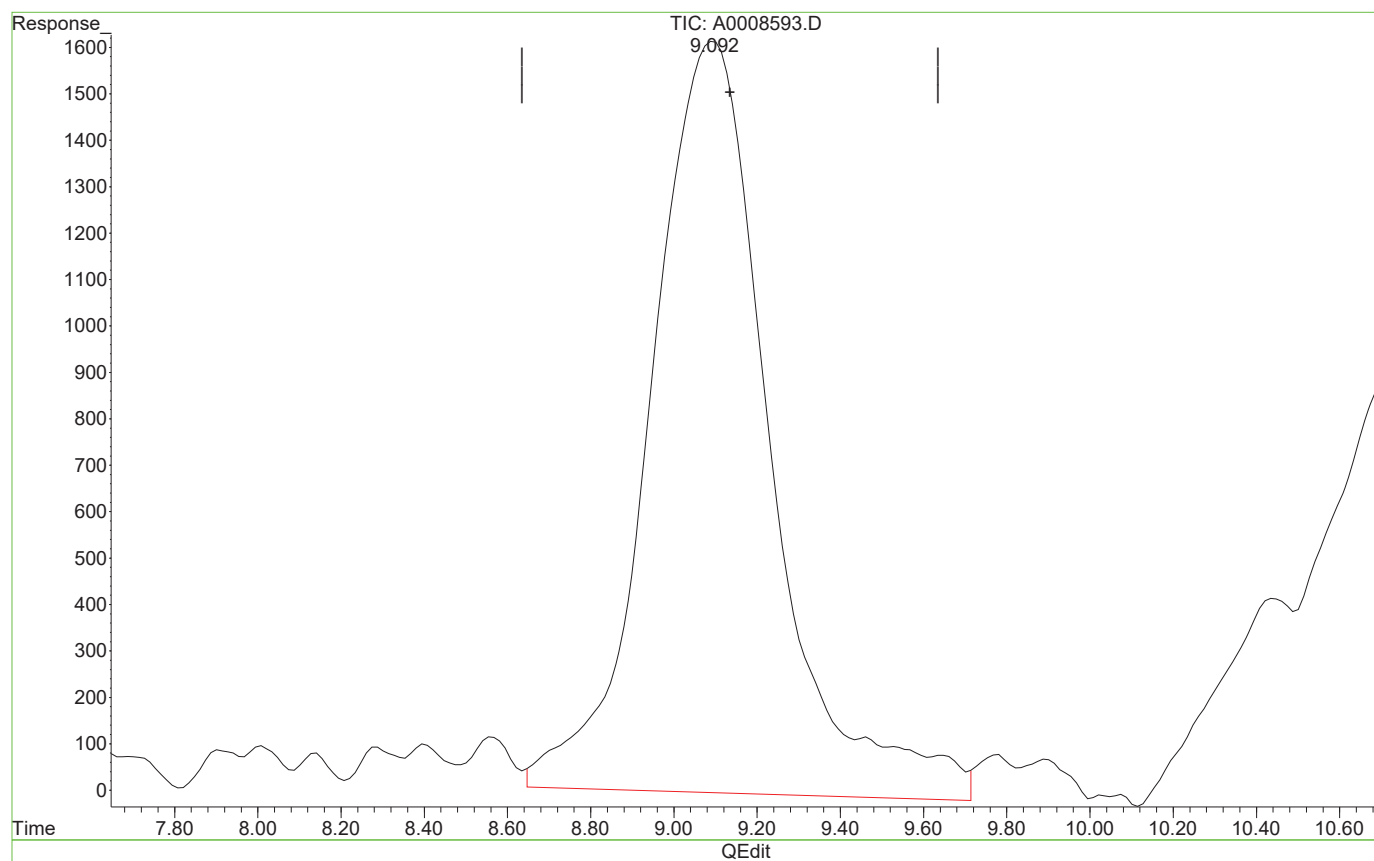
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.095min 5.568 ppm
response 323974

Manual Integration:
Before

06/30/22

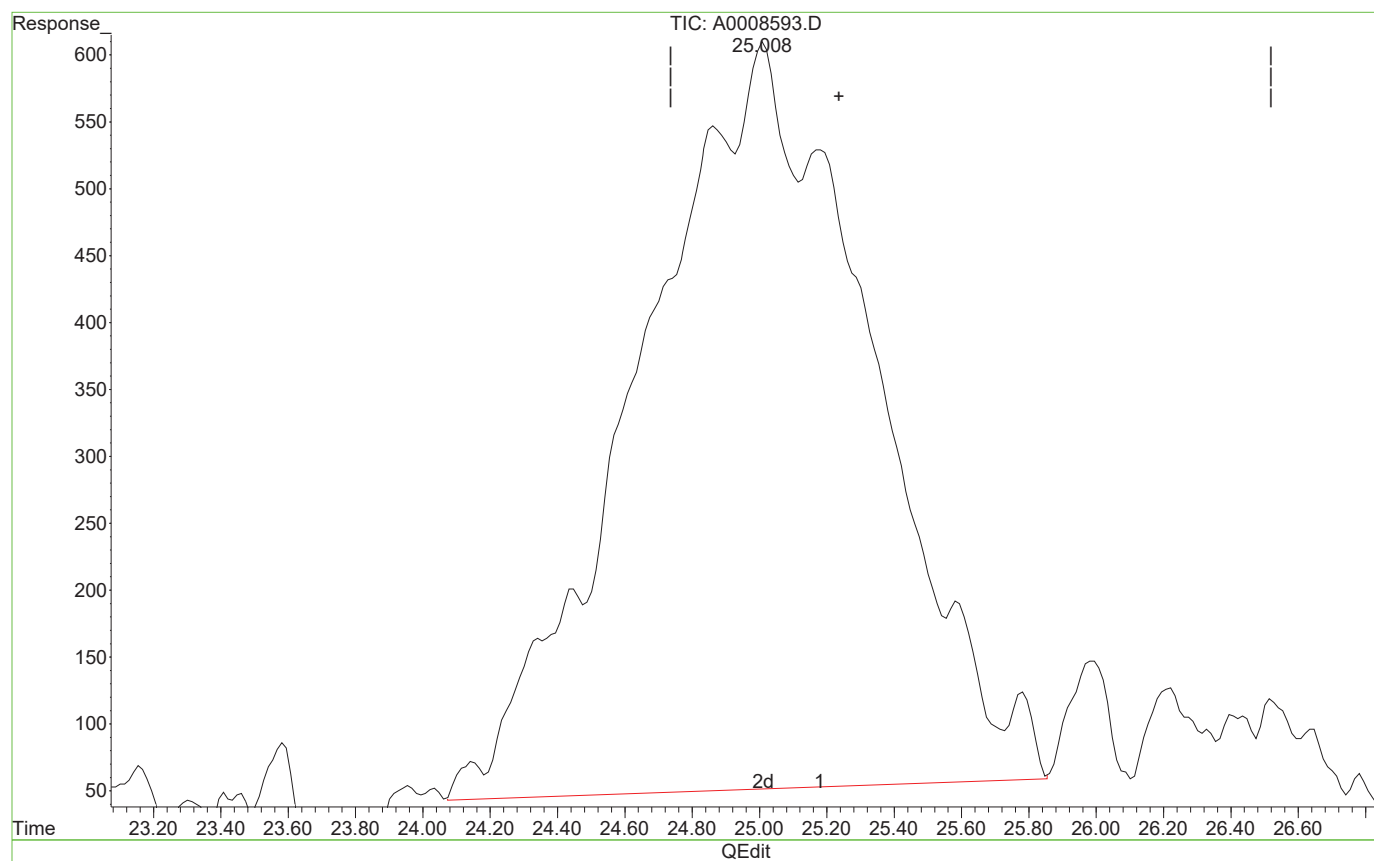
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)
25.008min 4.954 ppm m
response 268722

Manual Integration:
After
Poor integration.
06/30/22

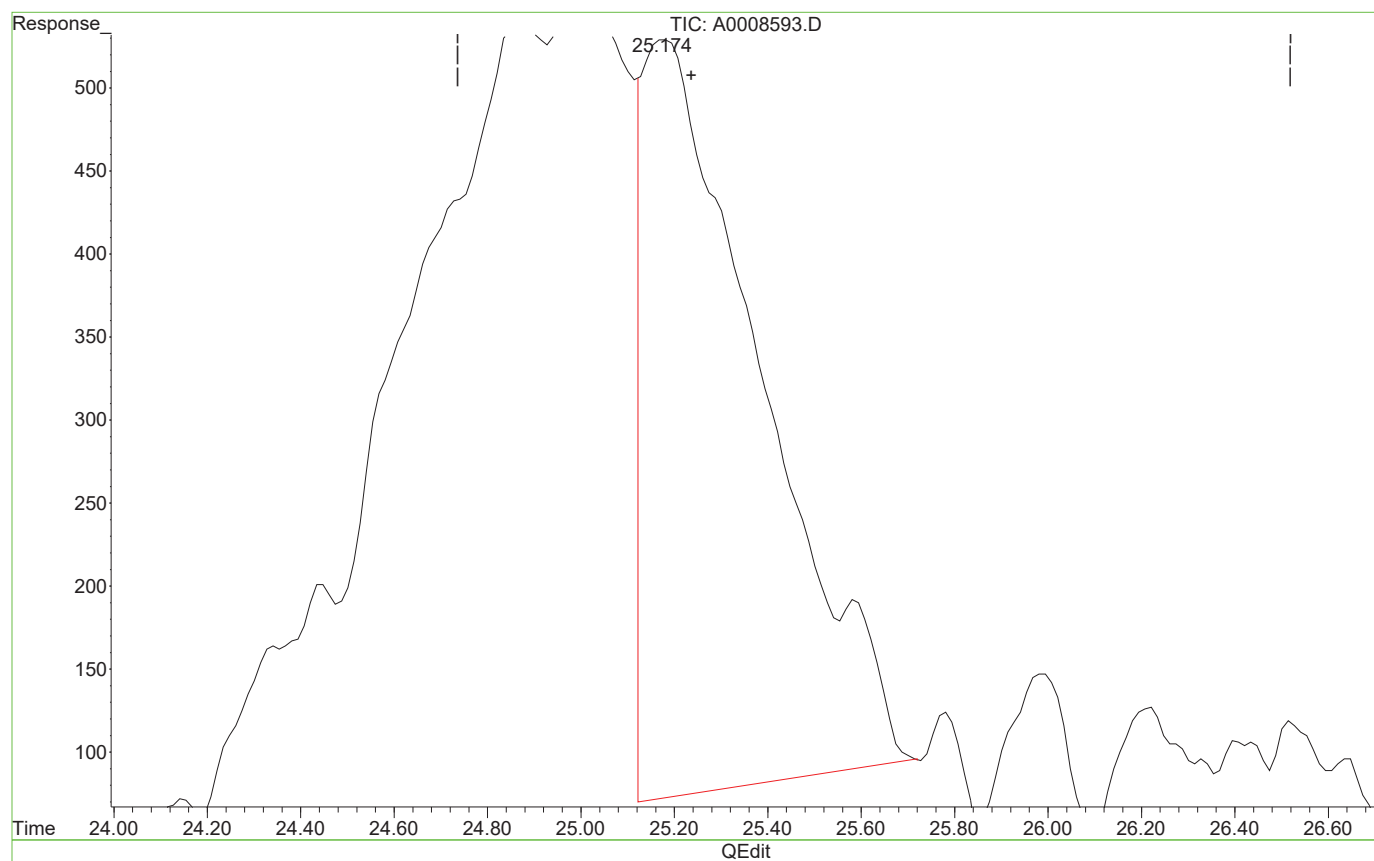
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)
25.180min 1.523 ppm
response 82609

Manual Integration:
Before

06/30/22

Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.011	492420	5.343 ppm
2) T Pyruvic acid	3.499	3369678	5.617 ppm
3) T Lactic Acid	3.895	272755	4.809 ppm m
4) T Acetic Acid	4.264	291850	5.271 ppm m
5) T Propionic Acid	9.092	267442	4.597 ppm m
6) T Butyric Acid	25.008	268722	4.954 ppm m

(f)=RT Delta > 1/2 Window

(m)=manual int.

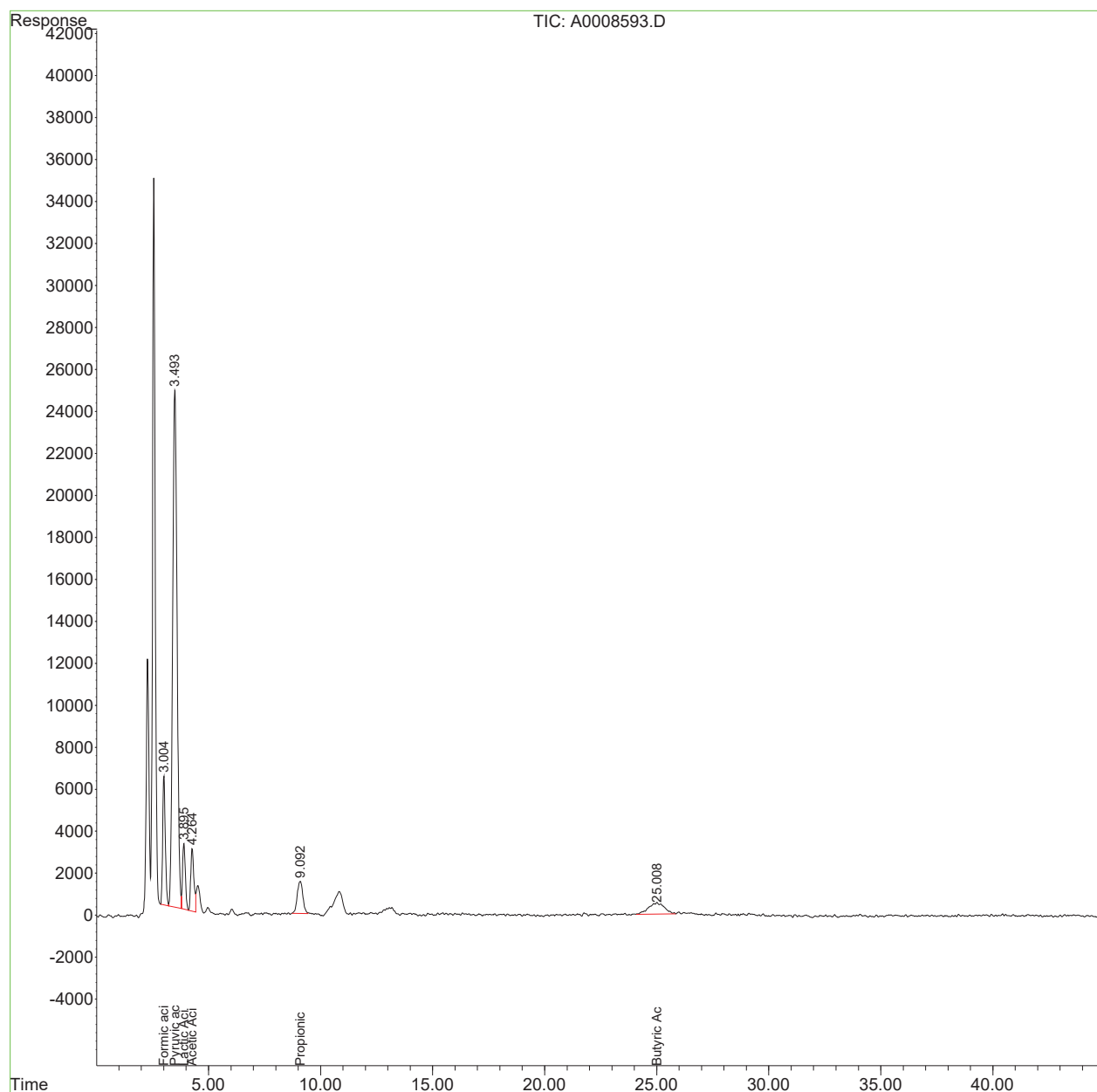
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008593.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 19:34:33
Operator : AFelser
Sample : 5 STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:23:20 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:22:32 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008594.D
Signal(s) : dad1A.ch Time/Date Error AF 7/1/22
Acq On : ~~30-Dec-2000, 16:48:17~~
Operator : AFelser 29-Jun-2022, 20:19
Sample : 10 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:04 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.011	950739	9.654 ppm
2) T Pyruvic acid	3.498	6487264	9.626 ppm
3) T Lactic Acid	3.900	562610	10.313 ppm
4) T Acetic Acid	4.271	555818	9.522 ppm
5) T Propionic Acid	9.086	527404	9.860 ppm
6) T Butyric Acid	25.131	526022	9.787 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

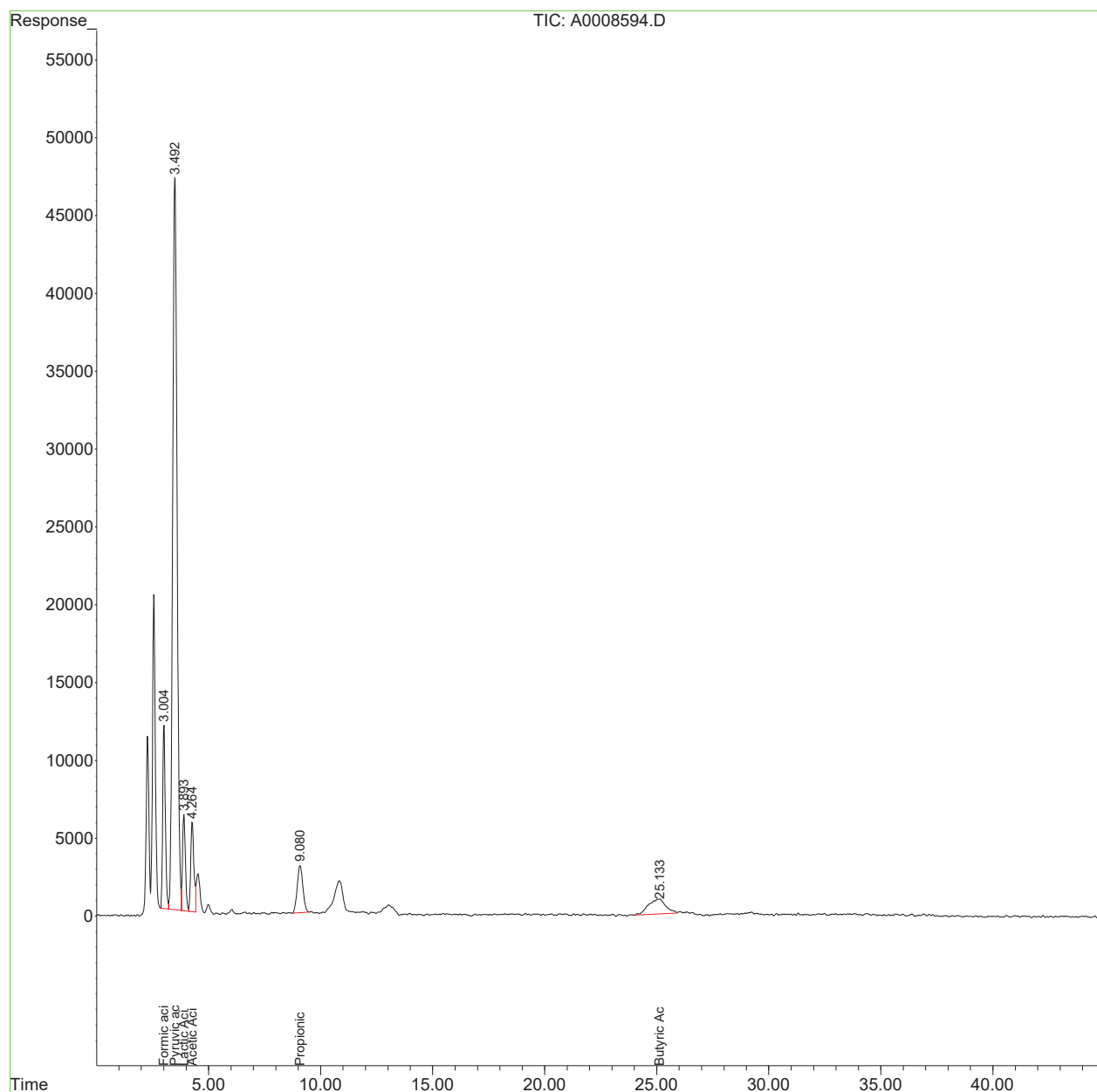
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008594.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 16:48:17
Operator : AFelser
Sample : 10 STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:04 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008595.D
Signal(s) : dad1A.ch Time/Date Error AF 7/1/22
Acq On : ~~30-Dec-2000, 08:48:36~~ 29-Jun-2022, 21:06
Operator : AFelser
Sample : 20 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:06 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.011	1919458	19.490 ppm
2) T Pyruvic acid	3.498	13157175	19.523 ppm
3) T Lactic Acid	3.900	1182083	21.669 ppm
4) T Acetic Acid	4.270	1138034	19.497 ppm
5) T Propionic Acid	9.085	1093857	20.450 ppm
6) T Butyric Acid	25.065	1189656	22.135 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

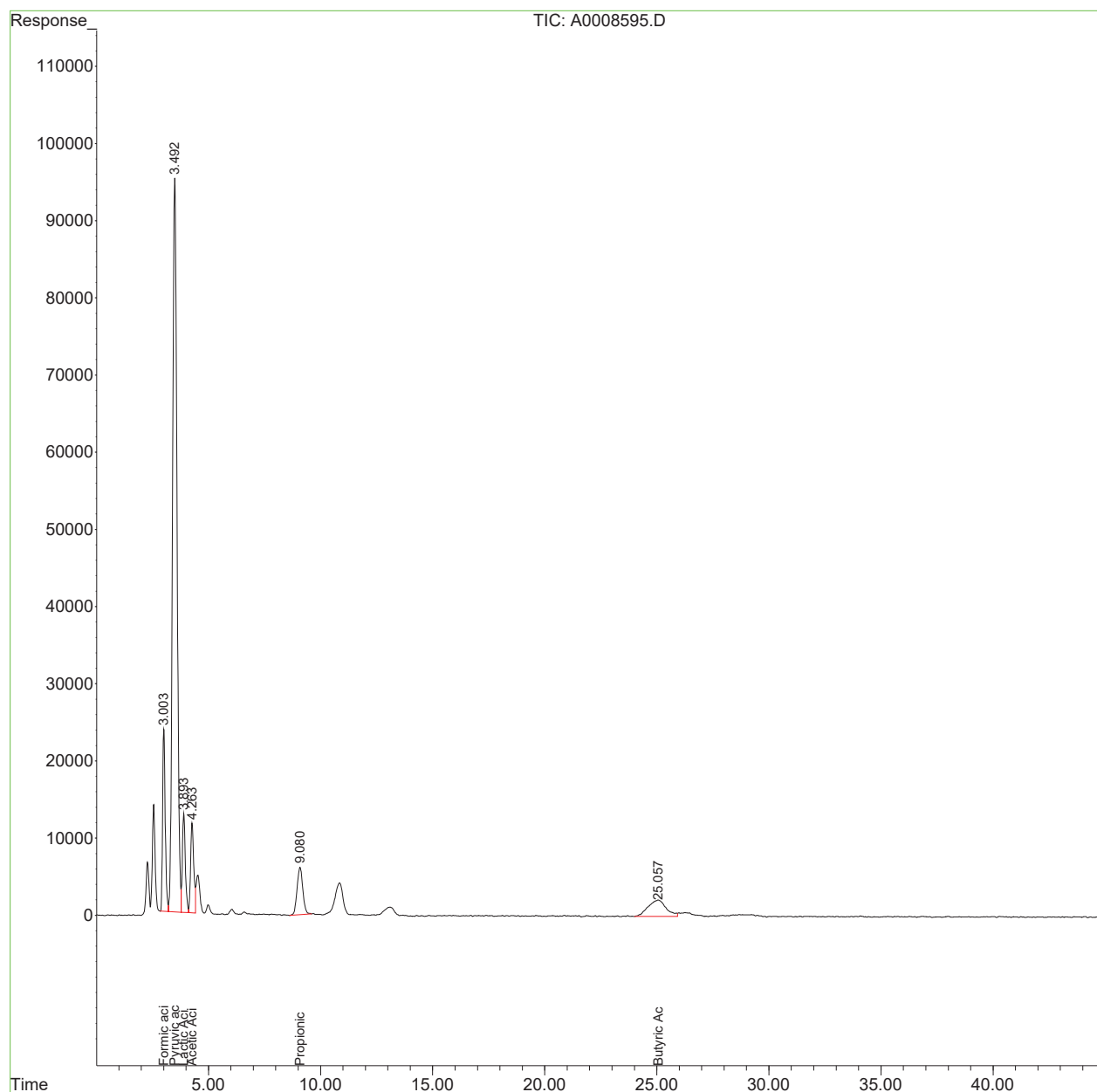
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008595.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 08:48:36
Operator : AFelser
Sample : 20 STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:06 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210



Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008596.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 21:56:25
Operator : AFelser
Sample : 50 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:08 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.010	4784380	48.580 ppm
2) T Pyruvic acid	3.496	32802696	48.673 ppm
3) T Lactic Acid	3.898	2986750	54.752 ppm
4) T Acetic Acid	4.268	2869814	49.166 ppm
5) T Propionic Acid	9.077	2798585	52.321 ppm
6) T Butyric Acid	24.989	2948740	54.866 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

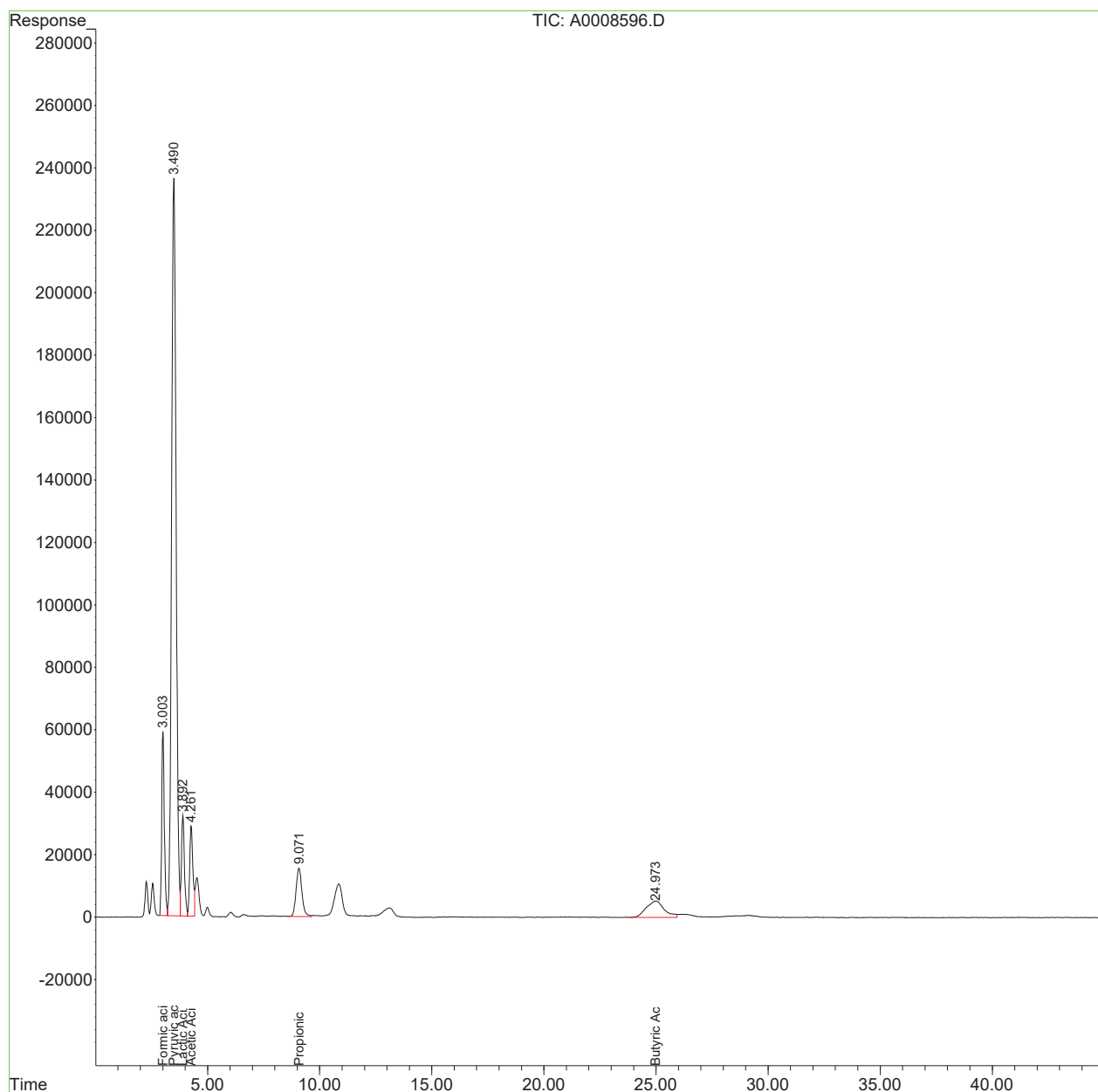
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008596.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 21:56:25
Operator : AFelser
Sample : 50 STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:08 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



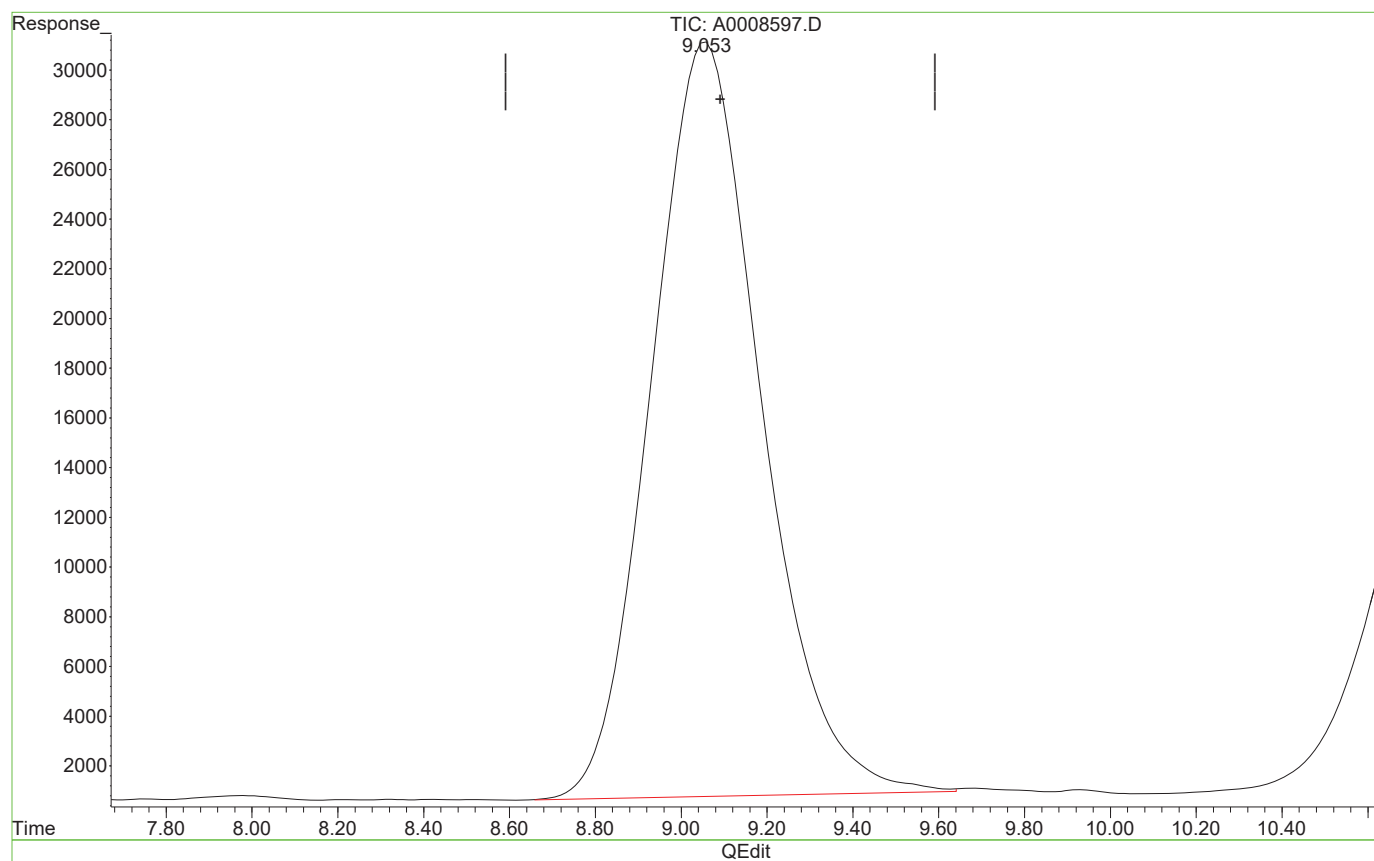
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008597.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 22:43:44
Operator : AFelser
Sample : 100 STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:10 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.053min 100.864 ppm m
response 5395065

Manual Integration:
After
Poor integration.
06/30/22

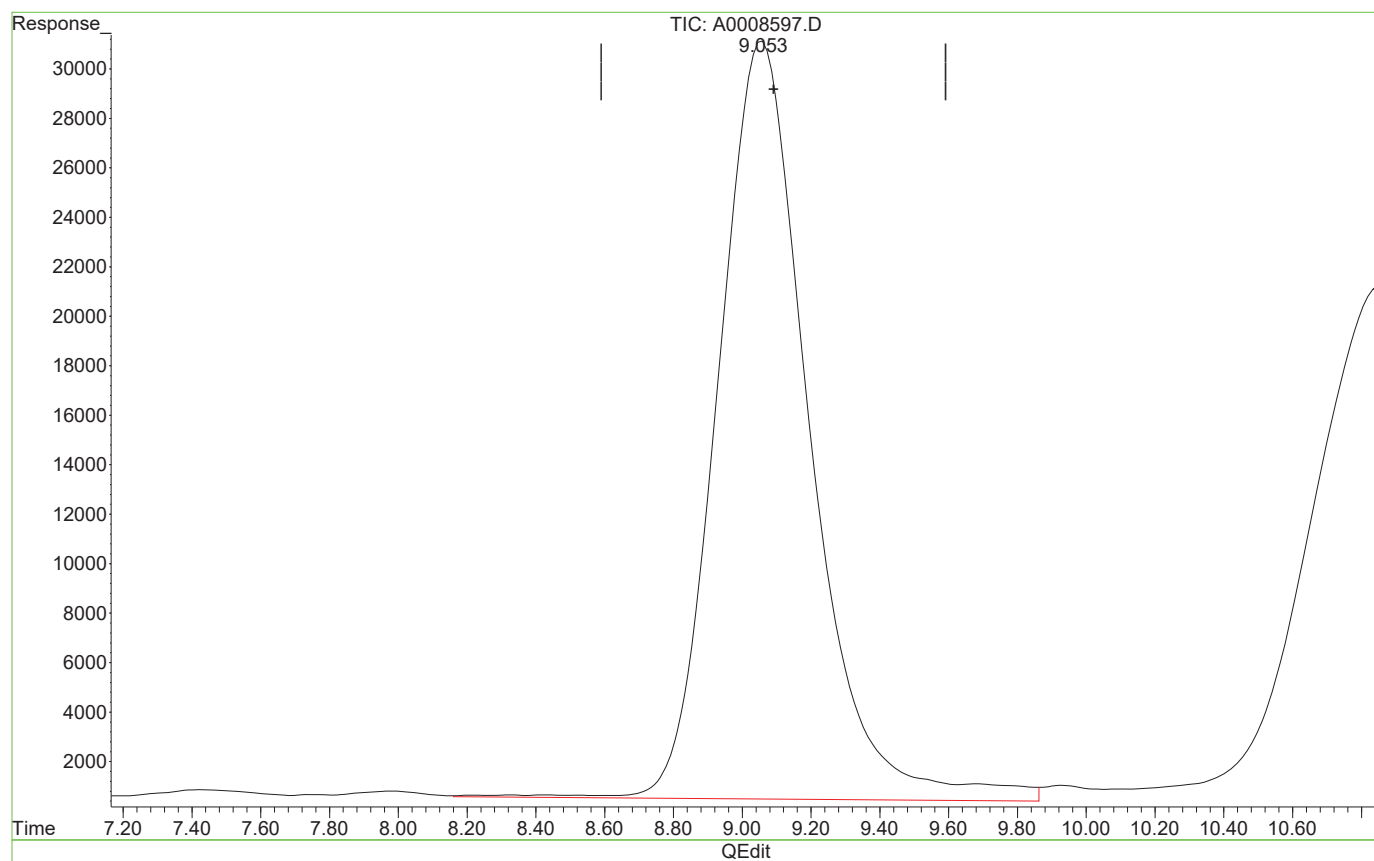
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008597.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 22:43:44
Operator : AFelser
Sample : 100 STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:10 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.059min 106.338 ppm
response 5687884

Manual Integration:
Before

06/30/22

Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008597.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 22:43:44
Operator : AFelser
Sample : 100 STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:10 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.010	9541343	96.882 ppm
2) T Pyruvic acid	3.495	65052378	96.526 ppm
3) T Lactic Acid	3.897	5966641	109.377 ppm
4) T Acetic Acid	4.267	5738936	98.320 ppm
5) T Propionic Acid	9.053	5395065	100.864 ppm m
6) T Butyric Acid	24.890	6041231	112.407 ppm

(f)=RT Delta > 1/2 Window

(m)=manual int.

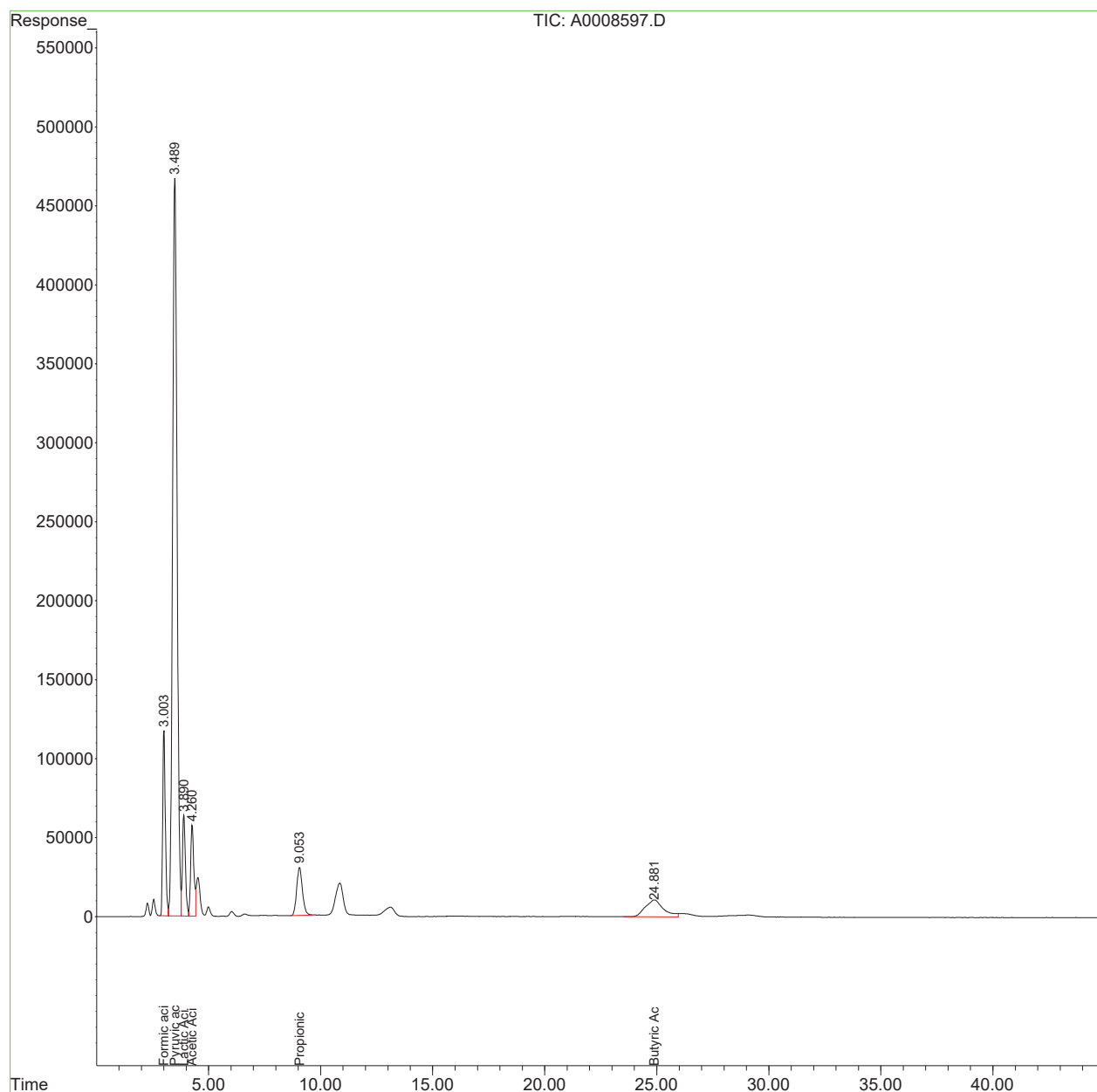
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008597.D
Signal(s) : dad1A.ch
Acq On : 29-Jun-2022, 22:43:44
Operator : AFelser
Sample : 100 STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:10 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



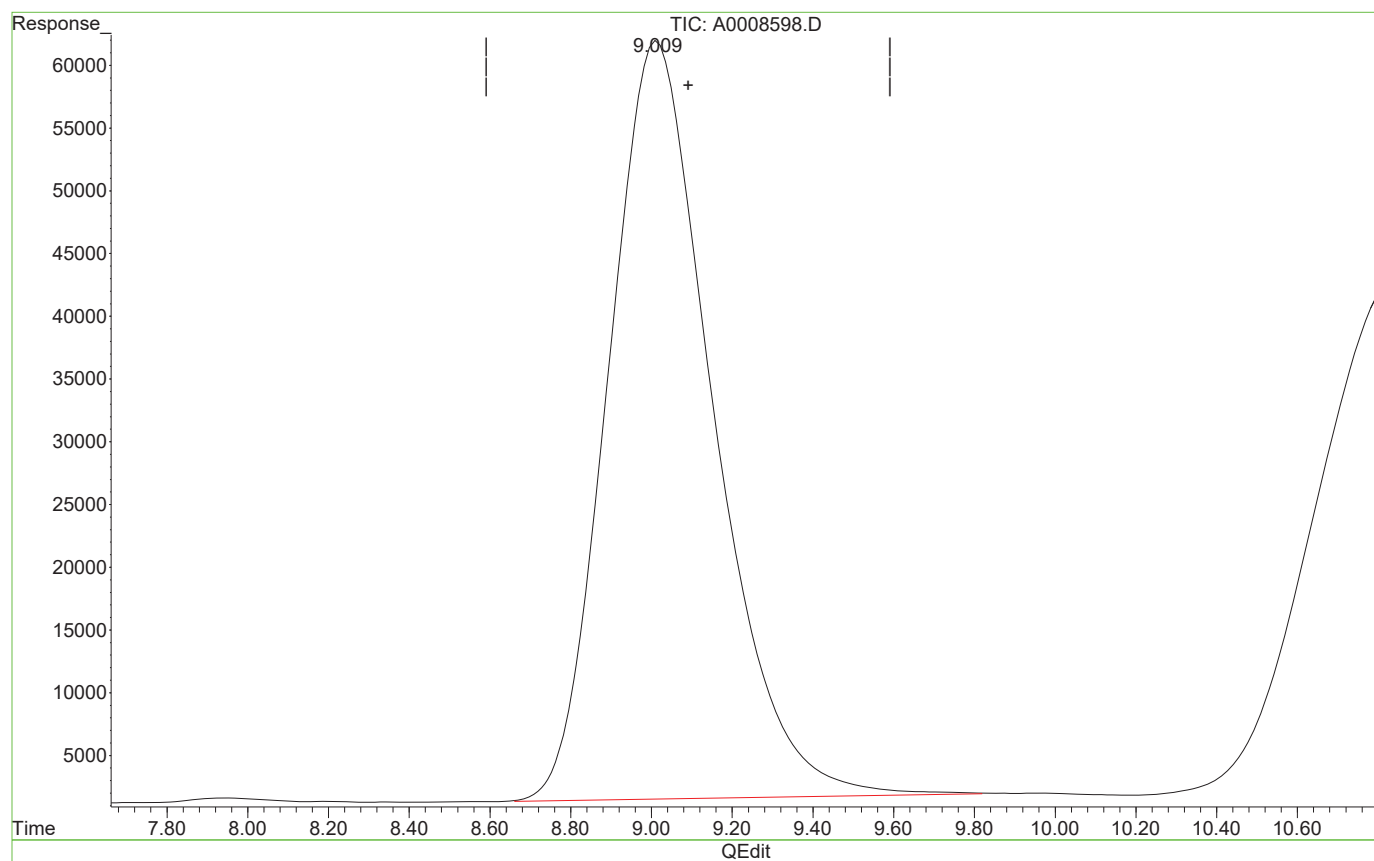
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008598.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 08:48:23
Operator : AFelser
Sample : 200 STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:12 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.009min 204.180 ppm m
response 10921296

Manual Integration:
After
Poor integration.
06/30/22

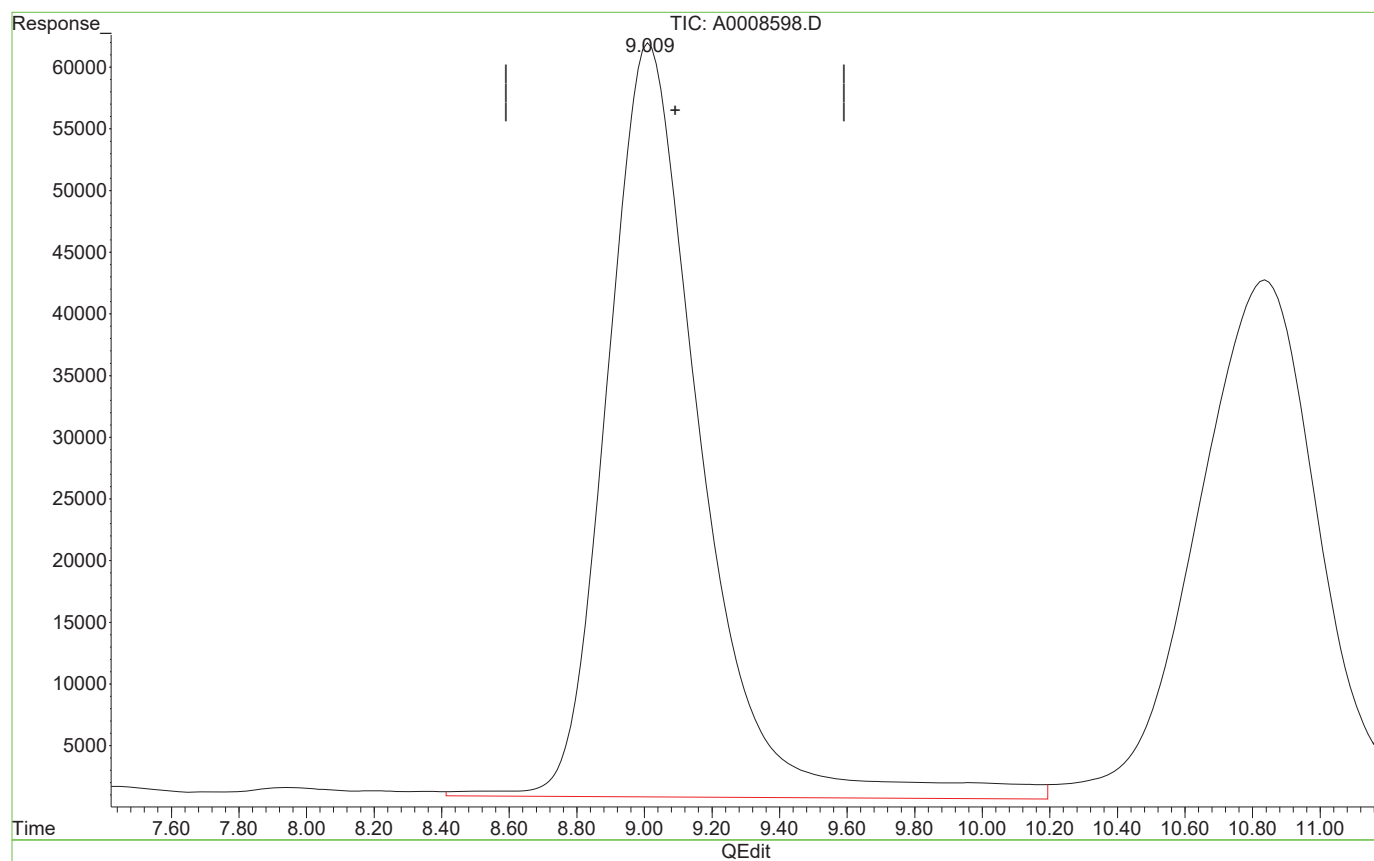
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008598.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 08:48:23
Operator : AFelser
Sample : 200 STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:12 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.015min 221.360 ppm
response 11840190

Manual Integration:
Before
06/30/22

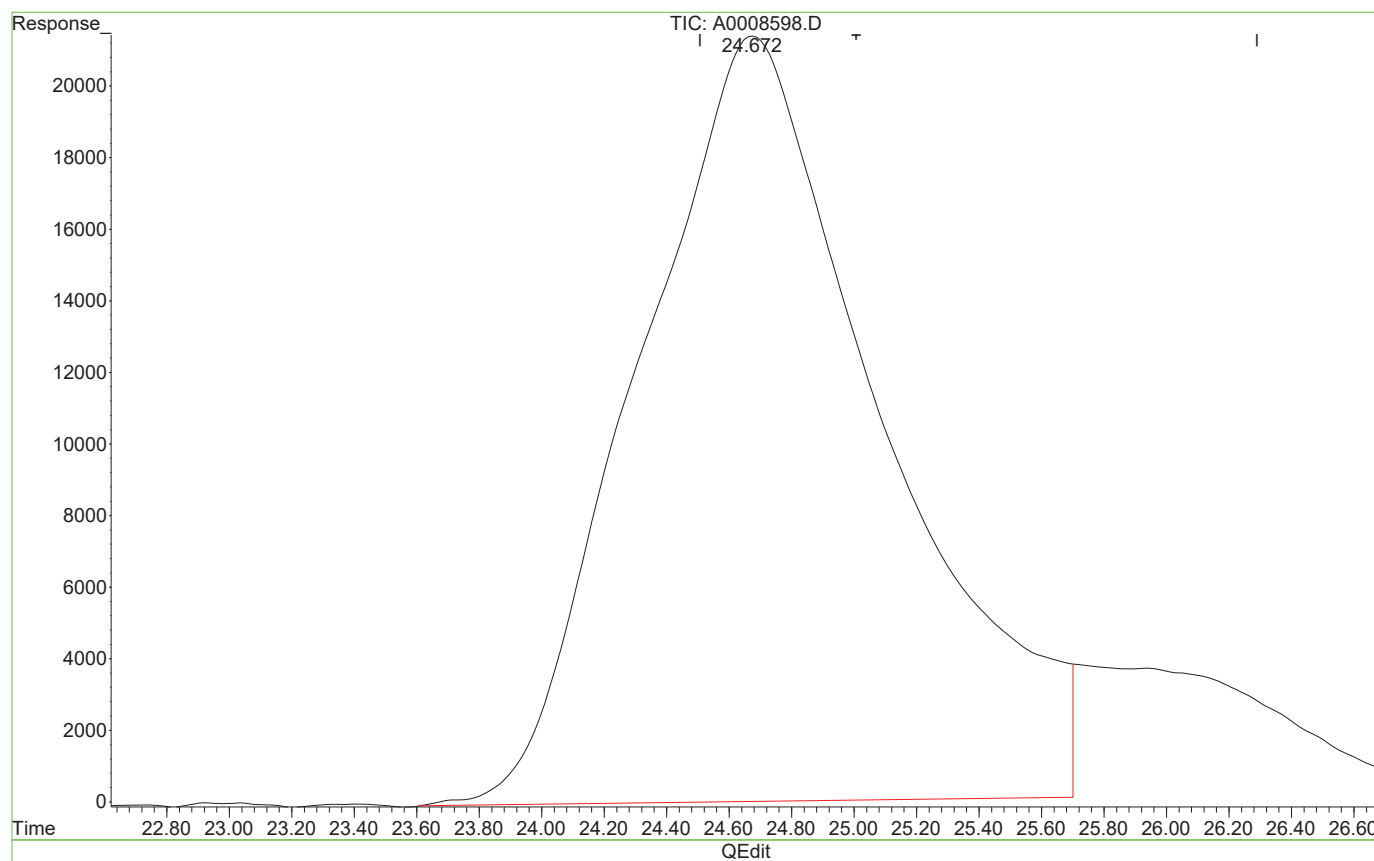
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008598.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 08:48:23
Operator : AFelser
Sample : 200 STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:12 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)
24.672min 215.148 ppm m
response 11563036

Manual Integration:
After
Poor integration.
06/30/22

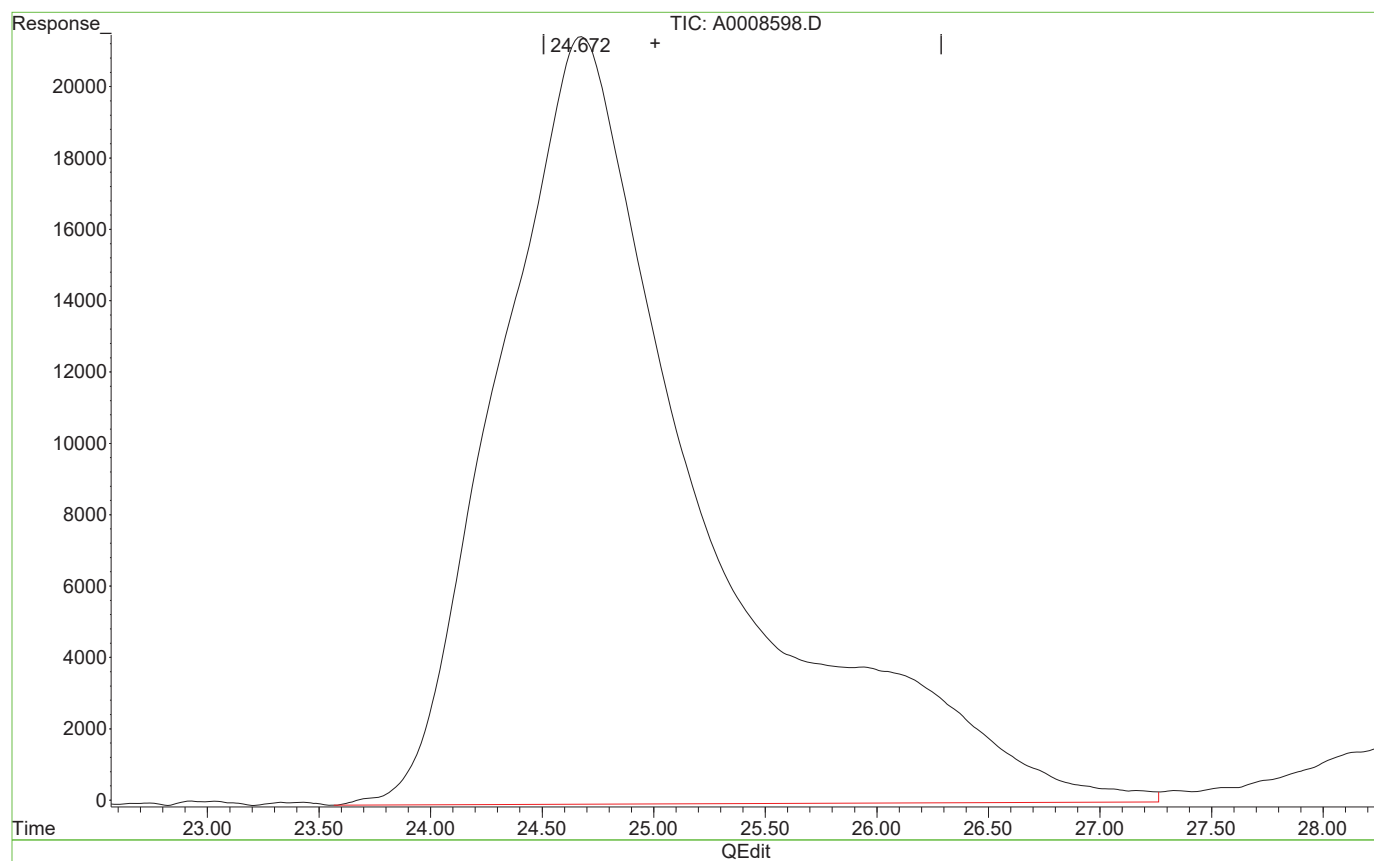
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008598.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 08:48:23
Operator : AFelser
Sample : 200 STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:12 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(6) Butyric Acid (T)
24.679min 253.899 ppm
response 13645648

Manual Integration:
Before
06/30/22

Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008598.D
Signal(s) : dad1A.ch Time/Date Error AF 7/1/22
Acq On : ~~30-Dec-2000, 08:48:23~~
Operator : AFelser 29-Jun-2022, 23:28
Sample : 200 STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:12 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergic hydro rp
Signal Info : UV wave 210

Compound	R.T.	Response	Conc Units

Target Compounds			
1) t Formic acid	3.008	19280632	195.774 ppm
2) T Pyruvic acid	3.492	130650442	193.862 ppm
3) T Lactic Acid	3.892	12076743	221.385 ppm
4) T Acetic Acid	4.260	11620707	199.087 ppm
5) T Propionic Acid	9.009	10921296	204.180 ppm m
6) T Butyric Acid	24.672	11563036	215.148 ppm m

(f)=RT Delta > 1/2 Window

(m)=manual int.

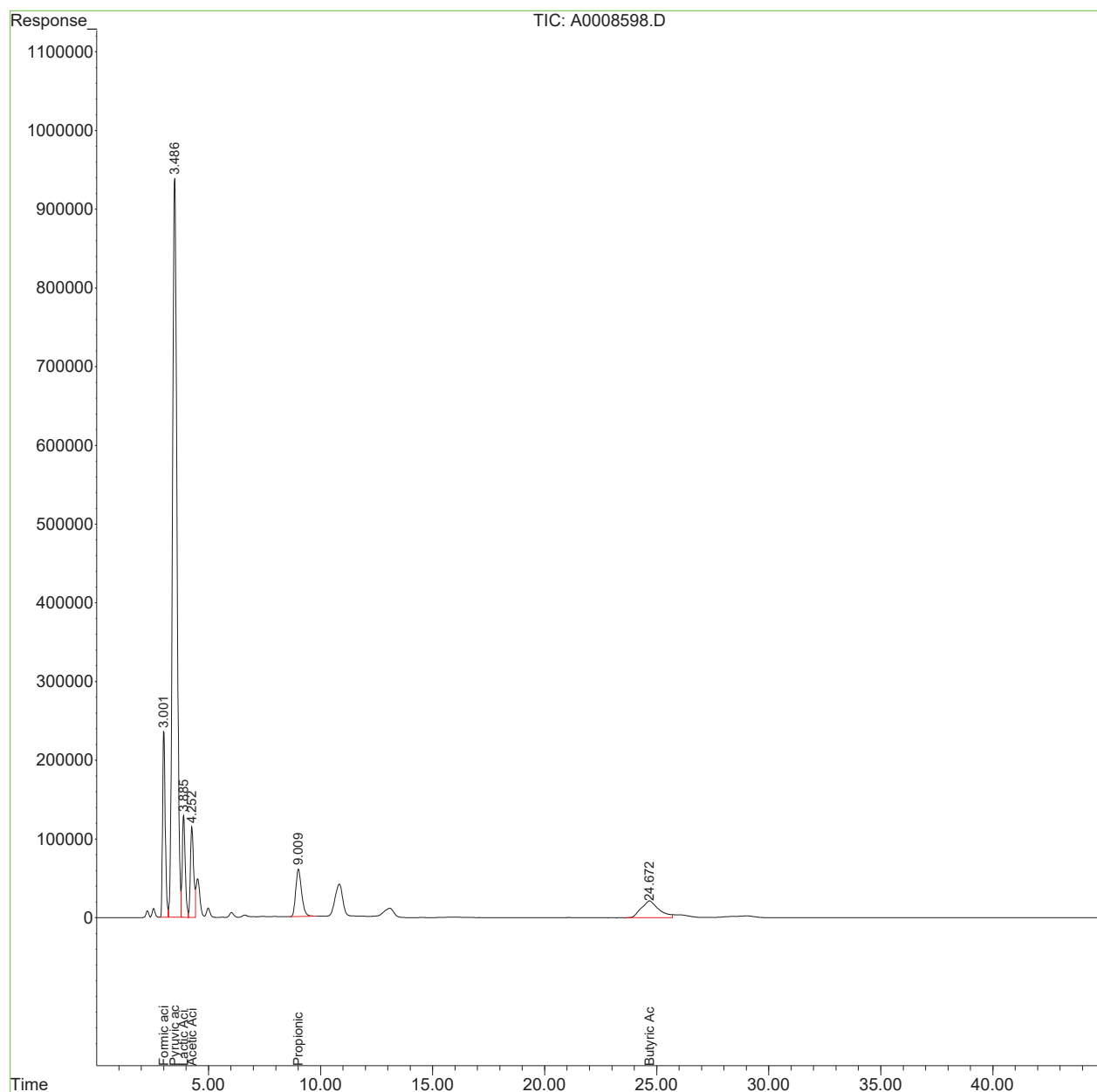
Quantitation Report (QT Reviewed)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008598.D
Signal(s) : dad1A.ch
Acq On : 30-Dec-2000, 08:48:23
Operator : AFelser
Sample : 200 STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:25:12 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



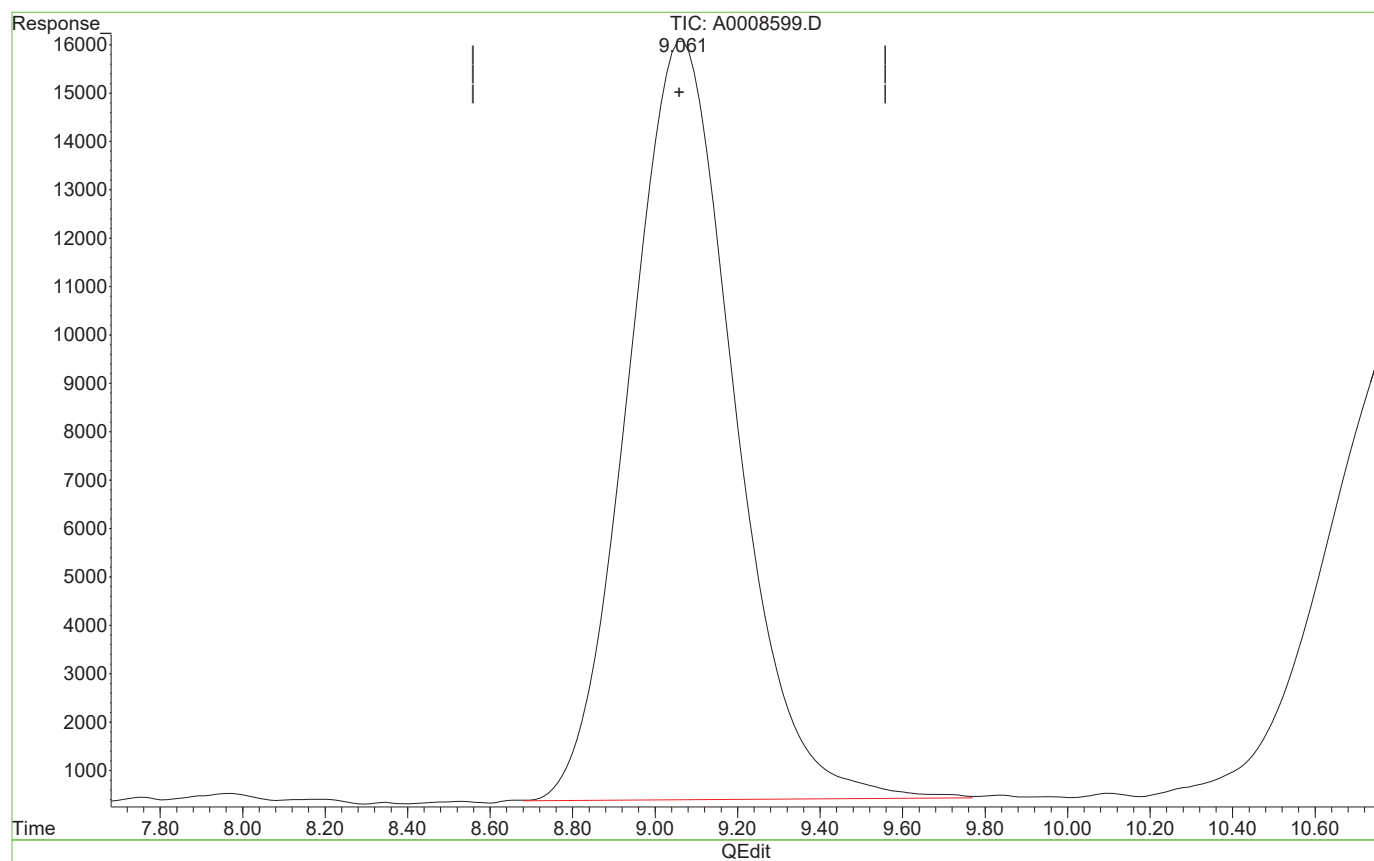
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008599.D
Signal(s) : dad1A.ch
Acq On : 30-Jun-2022, 00:17:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:33:40 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.061min 52.836 ppm m
response 2799752

Manual Integration:
After
Poor integration.
06/30/22

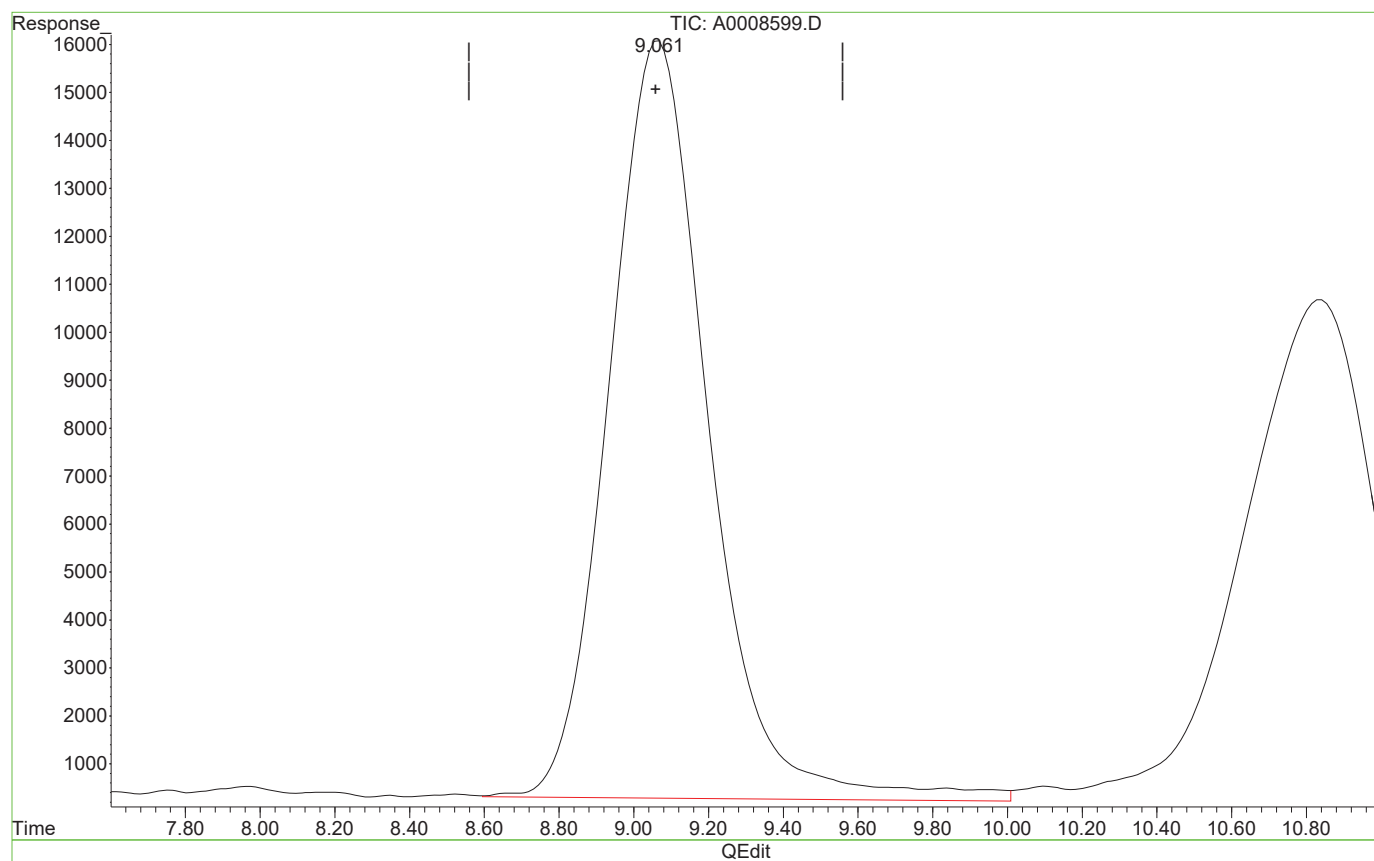
Quantitation Report (Qedit)

1st AF 07/01/22
2nd BA 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
Data File : A0008599.D
Signal(s) : dad1A.ch
Acq On : 30-Jun-2022, 00:17:59
Operator : AFelser
Sample : ICV
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
Quant Time: Jun 30 07:33:40 2022
Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
Quant Title : organic acids
QLast Update : Thu Jun 30 07:24:31 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 50.0ul
Signal Phase : synergis hydro rp
Signal Info : UV wave 210



(5) Propionic Acid (T)
9.067min 55.150 ppm
response 2922390

Manual Integration:
Before

06/30/22

Evaluate Continuing Calibration Report

 1st **AF** 07/01/22
 2nd **BA** 07/01/22

Data Path : I:\ACQUDATA\HPLC05\data\062922\
 Data File : A0008599.D
 Signal(s) : dad1A.ch
 Acq On : 30-Jun-2022, 00:17:59
 Operator : AFelser
 Sample : ICV
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: MA1.E
 Quant Time: Jun 30 07:33:40 2022
 Quant Method : I:\ACQUDATA\HPLC05\Methods\MA062922.M
 Quant Title : organic acids
 QLast Update : Thu Jun 30 07:24:31 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 50.0ul
 Signal Phase : synergic hydro rp
 Signal Info : UV wave 210

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 t	Formic acid	95.282	96.259 E3	-1.0	101	0.00
2 T	Pyruvic acid	637.926	655.284 E3	-2.7	100	0.00
3 T	Lactic Acid	56.075	60.762 E3	-8.4	102	0.00
4 T	Acetic Acid	56.930	58.456 E3	-2.7	102	0.00
5 T	Propionic Acid	52.990	55.995 E3	-5.7	100	0.00
6 T	Butyric Acid	56.019	64.659 E3	-15.4	110	0.05

Evaluate Continuing Calibration Report - Not Found

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58

Service Request: R2300356
Calibration Date: 12/29/2000

Initial Calibration Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2200065

Signal ID: 1

Instrument ID: R-HPLC-05

#	Lab Code	Sample Name	File Location	Acquisition Date
02	RC2200065-02	0.2 STD	I:\ACQUDATA\HPLC05\data\062922\A0008590.D	06/29/2022 17:12
03	RC2200065-03	1 STD	I:\ACQUDATA\HPLC05\data\062922\A0008591.D	06/29/2022 18:00
05	RC2200065-05	5 STD	I:\ACQUDATA\HPLC05\data\062922\A0008593.D	06/29/2022 19:34
08	RC2200065-08	50 STD	I:\ACQUDATA\HPLC05\data\062922\A0008596.D	06/29/2022 21:56
09	RC2200065-09	100 STD	I:\ACQUDATA\HPLC05\data\062922\A0008597.D	06/29/2022 22:43
01	RC2200065-01	0.1 STD	I:\ACQUDATA\HPLC05\data\062922\A0008588.D	12/29/2000 23:10
04	RC2200065-04	2 STD	I:\ACQUDATA\HPLC05\data\062922\A0008592.D	12/29/2000 23:47
10	RC2200065-10	200 STD	I:\ACQUDATA\HPLC05\data\062922\A0008598.D	12/30/2000 08:48
07	RC2200065-07	20 STD	I:\ACQUDATA\HPLC05\data\062922\A0008595.D	12/30/2000 08:48
06	RC2200065-06	10 STD	I:\ACQUDATA\HPLC05\data\062922\A0008594.D	12/30/2000 16:48

Analyte

Acetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	1	5.326E4	04	2	5.844E4	05	5	5.837E4	06	10	5.558E4
07	20	5.69E4	08	50	5.74E4	09	100	5.739E4	10	200	5.81E4

Butanoic Acid (Butyric Acid)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	2	4.91E4	05	5	5.374E4	06	10	5.26E4	07	20	5.948E4
08	50	5.897E4	09	100	6.041E4	10	200	5.782E4			

Lactic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	1	4.621E4	04	2	5.269E4	05	5	5.455E4	06	10	5.626E4
07	20	5.91E4	08	50	5.974E4	09	100	5.967E4	10	200	6.038E4

Propionic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	1	4.389E4	04	2	5.458E4	05	5	5.349E4	06	10	5.274E4
07	20	5.469E4	08	50	5.597E4	09	100	5.395E4	10	200	5.461E4

Pyruvic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1	6.165E5	02	0.2	5.754E5	03	1	5.573E5	04	2	6.897E5
05	5	6.739E5	06	10	6.487E5	07	20	6.579E5	08	50	6.561E5
09	100	6.505E5	10	200	6.533E5						

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58

Service Request: R2300356
Calibration Date: 12/29/2000

Initial Calibration Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2200065

Signal ID: 1

Instrument ID: R-HPLC-05

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Acetic Acid	TRG	Average RF	% RSD	3.1	≤	5.693E4	
Butanoic Acid (Butyric Acid)	TRG	Average RF	% RSD	7.6	≤	5.602E4	
Lactic Acid	TRG	Average RF	% RSD	8.7	≤	5.608E4	
Propionic Acid	TRG	Average RF	% RSD	7.2	≤	5.299E4	
Pyruvic Acid	TRG	Average RF	% RSD	6.6	≤	6.379E5	

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58

Service Request: R2300356
Calibration Date: 12/29/2000

Initial Calibration Verification Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Calibration ID: RC2200065

Signal ID: 1

Instrument ID: R-HPLC-05

#	Lab Code	Sample Name	File Location	Acquisition Date
11	RC2200065-11	ICV	I:\ACQUDATA\HPLC05\data\062922\A0008599.D	06/30/2022 00:17

Analyte Name	Expected	Result	Average RF	SSV RF	Rec.	Criteria	Curve Fit
Pyruvic Acid	50.0	51.4	6.379E5	6.553E5	103	85-115	Average RF
Acetic Acid	50.0	51.3	5.693E4	5.846E4	103	85-115	Average RF
Butanoic Acid (Butyric Acid)	50.0	57.7	5.602E4	6.466E4	115*	85-115	Average RF
Lactic Acid	50.0	54.2	5.608E4	6.076E4	108	85-115	Average RF
Propionic Acid	50.0	52.8	5.299E4	5.6E4	106	85-115	Average RF

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356
Date Analyzed: 01/26/23 05:06

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids
File ID: I:\ACQUDATA\HPLC05\data\012523\A0009411.D\
Signal ID: 1

Calibration Date: 12/29/2000
Calibration ID: RC2200065
Analysis Lot: 792813
Units: mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Pyruvic Acid	50.0	51.6	6.379E5	6.58E5	3.1	NA	±15	Average RF
Acetic Acid	50.0	51.3	5.693E4	5.836E4	2.5	NA	±15	Average RF
Butanoic Acid (Butyric Acid)	50.0	47.8	5.602E4	5.351E4	-4.5	NA	±15	Average RF
Lactic Acid	50.0	52.7	5.608E4	5.907E4	5.3	NA	±15	Average RF
Propionic Acid	50.0	55.1	5.299E4	5.839E4	10.2	NA	±15	Average RF

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356
Date Analyzed: 01/26/23 08:16

Continuing Calibration Verification (CCV) Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids
File ID: I:\ACQUADATA\HPLC05\data\012523\A0009415.D\
Signal ID: 1

Calibration Date: 12/29/2000
Calibration ID: RC2200065
Analysis Lot: 792813
Units: mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Pyruvic Acid	50.0	51.7	6.379E5	6.592E5	3.3	NA	±15	Average RF
Acetic Acid	50.0	51.4	5.693E4	5.853E4	2.8	NA	±15	Average RF
Butanoic Acid (Butyric Acid)	50.0	47.0	5.602E4	5.266E4	-6.0	NA	±15	Average RF
Lactic Acid	50.0	53.0	5.608E4	5.941E4	6.0	NA	±15	Average RF
Propionic Acid	50.0	54.6	5.299E4	5.787E4	9.2	NA	±15	Average RF

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356
Date Analyzed: 01/26/23 14:33

Continuing Calibration Verification (CCV) Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids
File ID: I:\ACQUDATA\HPLC05\data\012523\A0009423.D\
Signal ID: 1

Calibration Date: 12/29/2000
Calibration ID: RC2200065
Analysis Lot: 792813
Units: mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Pyruvic Acid	50.0	52.0	6.379E5	6.631E5	3.9	NA	±15	Average RF
Acetic Acid	50.0	51.9	5.693E4	5.907E4	3.8	NA	±15	Average RF
Butanoic Acid (Butyric Acid)	50.0	48.7	5.602E4	5.459E4	-2.6	NA	±15	Average RF
Lactic Acid	50.0	53.5	5.608E4	6.0E4	7.0	NA	±15	Average RF
Propionic Acid	50.0	53.5	5.299E4	5.67E4	7.0	NA	±15	Average RF

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356
Date Analyzed: 01/26/23 17:42

Continuing Calibration Verification (CCV) Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids
File ID: I:\ACQUDATA\HPLC05\data\012523\A0009427.D\
Signal ID: 1

Calibration Date: 12/29/2000
Calibration ID: RC2200065
Analysis Lot: 792813
Units: mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Pyruvic Acid	50.0	52.2	6.379E5	6.657E5	4.3	NA	±15	Average RF
Acetic Acid	50.0	51.5	5.693E4	5.858E4	2.9	NA	±15	Average RF
Butanoic Acid (Butyric Acid)	50.0	47.7	5.602E4	5.341E4	-4.7	NA	±15	Average RF
Lactic Acid	50.0	53.7	5.608E4	6.02E4	7.4	NA	±15	Average RF
Propionic Acid	50.0	54.7	5.299E4	5.802E4	9.5	NA	±15	Average RF

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356
Date Analyzed: 01/26/23 20:51

Continuing Calibration Verification (CCV) Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids
File ID: I:\ACQUDATA\HPLC05\data\012523\A0009431.D\
Signal ID: 1

Calibration Date: 12/29/2000
Calibration ID: RC2200065
Analysis Lot: 792813
Units: mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Pyruvic Acid	50.0	52.4	6.379E5	6.688E5	4.8	NA	±15	Average RF
Acetic Acid	50.0	51.7	5.693E4	5.89E4	3.5	NA	±15	Average RF
Butanoic Acid (Butyric Acid)	50.0	50.6	5.602E4	5.672E4	1.2	NA	±15	Average RF
Lactic Acid	50.0	54.3	5.608E4	6.086E4	8.5	NA	±15	Average RF
Propionic Acid	50.0	52.0	5.299E4	5.516E4	4.1	NA	±15	Average RF

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356
Date Analyzed: 01/26/23 23:10

Continuing Calibration Verification (CCV) Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids
File ID: I:\ACQUADATA\HPLC05\data\012523\A0009434.D\
Signal ID: 1

Calibration Date: 12/29/2000
Calibration ID: RC2200065
Analysis Lot: 792813
Units: mg/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Pyruvic Acid	50.0	52.5	6.379E5	6.699E5	5.0	NA	±15	Average RF
Acetic Acid	50.0	51.7	5.693E4	5.881E4	3.3	NA	±15	Average RF
Butanoic Acid (Butyric Acid)	50.0	49.2	5.602E4	5.511E4	-1.6	NA	±15	Average RF
Lactic Acid	50.0	54.3	5.608E4	6.093E4	8.7	NA	±15	Average RF
Propionic Acid	50.0	53.4	5.299E4	5.663E4	6.9	NA	±15	Average RF

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analysis Lot: 792813

Instrument ID: R-HPLC-05

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC05\data\012523\A0009424.D\	35AWW11-011223	R2300356-001	12/30/2000	00:06:12	
I:\ACQUDATA\HPLC05\data\012523\A0009433.D\	35AWW19-011223 DMS	RQ2301032-10	12/30/2000	00:28:28	
I:\ACQUDATA\HPLC05\data\012523\A0009426.D\	LHSMW07-011223	R2300356-003	12/30/2000	02:48:21	
I:\ACQUDATA\HPLC05\data\012523\A0009411.D\	Continuing Calibration Verification	RQ2301032-01	12/30/2000	02:48:35	
I:\ACQUDATA\HPLC05\data\012523\A0009434.D\	Continuing Calibration Verification	RQ2301032-11	12/30/2000	03:48:38	
I:\ACQUDATA\HPLC05\data\012523\A0009429.D\	35AWW23-011223	R2300356-005	12/30/2000	17:47:55	
I:\ACQUDATA\HPLC05\data\012523\A0009414.D\	Duplicate Lab Control Sample	RQ2301032-04	12/30/2000	17:47:58	
I:\ACQUDATA\HPLC05\data\012523\A0009412.D\	Method Blank	RQ2301032-02	12/30/2000	17:48:41	
I:\ACQUDATA\HPLC05\data\012523\A0009411.D\	Continuing Calibration Verification	RQ2301032-01	1/26/2023	05:06:00	
I:\ACQUDATA\HPLC05\data\012523\A0009412.D\	Method Blank	RQ2301032-02	1/26/2023	05:53:00	
I:\ACQUDATA\HPLC05\data\012523\A0009413.D\	Lab Control Sample	RQ2301032-03	1/26/2023	06:42:38	
I:\ACQUDATA\HPLC05\data\012523\A0009414.D\	Duplicate Lab Control Sample	RQ2301032-04	1/26/2023	07:27:00	
I:\ACQUDATA\HPLC05\data\012523\A0009415.D\	Continuing Calibration Verification	RQ2301032-05	1/26/2023	08:16:55	
I:\ACQUDATA\HPLC05\data\012523\A0009423.D\	Continuing Calibration Verification	RQ2301032-06	1/26/2023	14:33:54	
I:\ACQUDATA\HPLC05\data\012523\A0009424.D\	35AWW11-011223	R2300356-001	1/26/2023	15:18:00	
I:\ACQUDATA\HPLC05\data\012523\A0009425.D\	35AWW20-011223	R2300356-002	1/26/2023	16:08:02	
I:\ACQUDATA\HPLC05\data\012523\A0009426.D\	LHSMW07-011223	R2300356-003	1/26/2023	16:53:00	
I:\ACQUDATA\HPLC05\data\012523\A0009427.D\	Continuing Calibration Verification	RQ2301032-07	1/26/2023	17:42:17	
I:\ACQUDATA\HPLC05\data\012523\A0009428.D\	35AWW06-011223	R2300356-004	1/26/2023	18:29:29	
I:\ACQUDATA\HPLC05\data\012523\A0009429.D\	35AWW23-011223	R2300356-005	1/26/2023	19:14:00	
I:\ACQUDATA\HPLC05\data\012523\A0009430.D\	35AWW19-011223	R2300356-006	1/26/2023	20:03:51	
I:\ACQUDATA\HPLC05\data\012523\A0009431.D\	Continuing Calibration Verification	RQ2301032-08	1/26/2023	20:51:00	
I:\ACQUDATA\HPLC05\data\012523\A0009432.D\	35AWW19-011223 MS	RQ2301032-09	1/26/2023	21:38:08	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: BHATE LHAAP / Site 58/NW01312.0150

Service Request: R2300356

Analysis Run Log

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids**Analysis Lot:** 792813**Instrument ID:** R-HPLC-05

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\HPLC05\data\012523 \A0009433.D\	35AWW19-011223 DMS	RQ2301032-10	1/26/2023	22:23:00	
I:\ACQUDATA\HPLC05\data\012523 \A0009434.D\	Continuing Calibration Verification	RQ2301032-11	1/26/2023	23:10:00	

Metabolic Acids	Analyst: <u>AF</u>	Run Method: <u>NEWETA</u>
Instrument: R-HPLC-05	Date: <u>1/25/23</u>	Quant Method: <u>MA06111</u>
Setup:	Column: <u>Symmetry Hydro 80</u>	LIMS Run#: <u>792711</u> <u>792813</u>
Mobile Phase:	<u>0.02 M HCl prep in H₂O</u>	Col. Temp: <u>35°C</u> Flow: <u>0.6 mL/min</u>
Mobile Phase ID: <u>0-706-80C</u>		ul Inj.: <u>50</u>

Pos.	Sample	Diln.*	Stds. ID	pH	Filtered	File#	OK?	Comments
2	BLW			<2	n/a	AC009397	—	
2	BLW					98	—	
1	CCW	50µL/1mL	226441		↓	99	Y	
2	F MB 012523				Y	400	Y	
3	F LGS 012523	20µL/1mL	224944		Y	01	Y	
4	F DEC 012523	↓	↓		Y	02	Y	
1	CCW	50µL/1mL	226441		n/a	03	Y	
5	R230026-w1			7-8.2	Y	04	Y	
6	R230026-w1			6-8.2	Y	05	Y	
9	BLW			<2	n/a	06	—	
1	CCW	50µL/1mL	226441		↓	07	Y	
7	R2300412-w1			6-8.2	Y	08	Y	
8	R2300412-w1			6-8.2	Y	09	Y	
9	BLW			<2	n/a	10	—	
1	CCW	50µL/1mL	226441		↓	11	Y	
9	MB			<2	n/a	12	Y	
10	LC	20µL/1mL	224944		↓	13	Y	
11	DEC	↓	↓			14	Y	
1	CCW	50µL/1mL	226441		↓	15	Y	
12	R2300685-w1			14-8.2		16	N	> 100% R ₂ 11mL
13	↓ -w2			10-8.2		17	↓	↓
9	BLW			<2		18	—	
1	CCW	50µL/1mL	226441		↓	19	Y	
14	R2300685-w3			14-8.2		20	N	> 100% R ₂ 11mL
15	↓ -w4			10-8.2		21	↓	↓
9	BLW			<2		22	—	
1	CCW	50µL/1mL	226441		↓	23	Y	
16	R2300356-w1					24	Y	
17	↓ -w2					25	Y	
18	↓ -w3					26	Y	
1	CCW	50µL/1mL	226441		↓	27	Y	
19	R2300356-w4				↓	28	Y	

Primary: 226441 exp: 3/13/23 Secondary: 224944 Exp: 3/13/23

pH Paper: Hydrex 275419 Acidified DI: 223700 Filters: 181716

MB is Acidified DI

*Notation for standards is Amount of Standard/Final Volume with Acidified DI.

Runlog HPLC05 r0

3/18/22

O-1086 Page 50 of 100

HS23060280 LHAAP58 Cover Page

ALS WO# HS23060280



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Table of Contents

HS23060280 LHAAP58 Cover Page

CoverPage

HS23060280 LHAAP58 Final

CoverLetter

Sample Summary

CaseNarrative

35AWW19_060523

35AWW20_060523

LHSMW07_060523

35AWW06_060523

35AWW23_060523

35AWW11_060523

35AWW22_060523

35AWW12_060523

35AWW12_060523_a

Trip Blank

Weight/Volume Log

Dates Report

QC

Acronyms

Certifications

SampleReceiptCheckList



Table of Contents (continued)

COC

HS23060280 Eurofin Lab J129509-1 UDS Level 2 Report Final Report

HS23060280 Sub Microbial Lab Report

HS23060280-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 VOA9 437296

Raw Data VOA9 437473

Raw Data VOA9 437641

HS23060280-GCSEMI-RSK-175

Form 1 - Sample Results

Form 3B - LCS/LCSD

Form 4 - MB Assoc

Form 6 - ICAL

Form 6I - ICV

Form 7 - CCV

Run Log

Raw Data FID-4 322102

Raw Data FID-4 437509

HS23060280 - ME - ICP_W_DOD

Form 11 - ICPMS06 Internal Standard Association

Form 13 - ICPMS06_439315 Run Log

Form 2 - ICPMS06_439315 CCV

Form 3 - ICPMS06_439315 CCB

Form 4 - ICPMS06_439315 ICSA

Form 5A - ICPMS06_439315 MS





right solutions.
right partner.

10450 Stancliff Rd. Suite 210
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T: +1 281 530 5656
F: +1 281 530 5887
alsglobal.com

WorkOrder: HS23060280

LHAAP-58

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

09-Jun-2023



HS23060280 LHAAP58 Final

ALS WO# HS23060280





10450 Stancliff Rd. Suite 210
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T: +1 281 530 5656
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June 21, 2023

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

Work Order: **HS23060280**

Laboratory Results for: **LHAAP-58**

Dear Marcia Olive,

ALS Environmental received 10 sample(s) on Jun 06, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER

James Guin



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Work Order: HS23060280

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23060280-01	35AWW19_060523	Groundwater		05-Jun-2023 06:55	06-Jun-2023 09:30	☐
HS23060280-02	35AWW20_060523	Groundwater		05-Jun-2023 07:45	06-Jun-2023 09:30	☐
HS23060280-03	LHSMW07_060523	Groundwater		05-Jun-2023 08:30	06-Jun-2023 09:30	☐
HS23060280-04	35AWW06_060523	Groundwater		05-Jun-2023 09:15	06-Jun-2023 09:30	☐
HS23060280-05	35AWW23_060523	Groundwater		05-Jun-2023 10:05	06-Jun-2023 09:30	☐
HS23060280-06	35AWW11_060523	Groundwater		05-Jun-2023 10:55	06-Jun-2023 09:30	☐
HS23060280-07	35AWW22_060523	Groundwater		05-Jun-2023 11:45	06-Jun-2023 09:30	☐
HS23060280-08	35AWW12_060523	Groundwater		05-Jun-2023 12:25	06-Jun-2023 09:30	☐
HS23060280-09	35AWW12_060523_a	Groundwater		05-Jun-2023 12:25	06-Jun-2023 09:30	☐
HS23060280-10	Trip Blank	Water	CG-041923 -624	05-Jun-2023 00:00	06-Jun-2023 09:30	☐



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Work Order: HS23060280

CASE NARRATIVE

Work Order Comments

- The analysis for Carbon Dioxide by RSK-175 was subcontracted to Eurofins Lancaster Laboratories Environment Testing in Lancaster, PA. Final report attached.
- The analysis for Dechlorinating Bacteria was subcontracted to Microbial Insights, Inc.. Final report attached.

GC Semivolatiles by Method RSK-175**Batch ID: R437509**

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

GCMS Volatiles by Method SW8260**Batch ID: R437641****Sample ID: 35AWW12_060523_a (HS23060280-09MSD)**

- MS/MSD RPD recovered outside control limits for Methylene chloride

Batch ID: R437473**Sample ID: HS23060241-04MSD**

- MSD is for an unrelated sample

Metals by Method SW6020A**Batch ID: 195358**

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

WetChemistry by Method E415.1**Batch ID: R437619,R437997**

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

WetChemistry by Method SW9056**Batch ID: R437236****Sample ID: 35AWW23_060523 (HS23060280-05)**

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))

Sample ID: LHSMW07_060523 (HS23060280-03)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW19_060523
 Collection Date: 05-Jun-2023 06:55

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-01
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		Method: SW8260						Analyst: PC
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,1-Dichloroethane	0.92	J	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,1-Dichloroethene	4.8		0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2-Dichloroethane	1.4		0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 17:47
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	08-Jun-2023 17:47
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	08-Jun-2023 17:47
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 17:47
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	08-Jun-2023 17:47
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 17:47
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	08-Jun-2023 17:47
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW19_060523
 Collection Date: 05-Jun-2023 06:55

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-01
 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	08-Jun-2023 17:47
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	08-Jun-2023 17:47
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 17:47
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 17:47
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Trichloroethene	1.1		0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 17:47
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 17:47
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.9</i>			0	<i>81-118</i>	%REC	1	08-Jun-2023 17:47
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.1</i>			0	<i>85-114</i>	%REC	1	08-Jun-2023 17:47
<i>Surr: Dibromofluoromethane</i>	<i>96.6</i>			0	<i>80-119</i>	%REC	1	08-Jun-2023 17:47
<i>Surr: Toluene-d8</i>	<i>108</i>			0	<i>89-112</i>	%REC	1	08-Jun-2023 17:47
DISSOLVED GASES BY RSK-175			Method: RSK-175					Analyst: SAM
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	08-Jun-2023 08:23
Ethene	0.500	U	0.234	0.500	1.00	ug/L	1	08-Jun-2023 08:23
Methane	1.28		0.107	0.500	0.500	ug/L	1	08-Jun-2023 08:23
TOTAL ORGANIC CARBON BY E415.1			Method: E415.1					Analyst: DW
Organic Carbon, Total	1.72		0.500	1.00	1.00	mg/L	1	10-Jun-2023 12:52
ANIONS BY SW9056A			Method: SW9056					Analyst: TH
Chloride	430		4.00	5.00	10.0	mg/L	20	06-Jun-2023 19:36
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	06-Jun-2023 19:30
Sulfate	567		4.00	5.00	10.0	mg/L	20	06-Jun-2023 19:36

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW19_060523
Collection Date: 05-Jun-2023 06:55

ANALYTICAL REPORT

WorkOrder:HS23060280
Lab ID:HS23060280-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - RSK		Method:NA						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2023 17:32

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW20_060523
 Collection Date: 05-Jun-2023 07:45

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-02
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,1,2-Trichloroethane	57		0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,1-Dichloroethane	430		5.0	12	25	ug/L	25	09-Jun-2023 15:55
1,1-Dichloroethene	1,700		5.0	12	25	ug/L	25	09-Jun-2023 15:55
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2-Dichlorobenzene	27		0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2-Dichloroethane	13		0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,3-Dichlorobenzene	1.2		0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:24
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	08-Jun-2023 20:24
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	08-Jun-2023 20:24
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:24
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	08-Jun-2023 20:24
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 20:24
Benzene	7.3		0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	08-Jun-2023 20:24
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW20_060523
 Collection Date: 05-Jun-2023 07:45

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-02
 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	08-Jun-2023 20:24
cis-1,2-Dichloroethene	85		0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	08-Jun-2023 20:24
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 20:24
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:24
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
trans-1,2-Dichloroethene	7.5		0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Trichloroethene	180		0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:24
Vinyl chloride	940		5.0	12	25	ug/L	25	09-Jun-2023 15:55
Surr: 1,2-Dichloroethane-d4	101			0	81-118	%REC	1	08-Jun-2023 20:24
Surr: 1,2-Dichloroethane-d4	98.6			0	81-118	%REC	25	09-Jun-2023 15:55
Surr: 4-Bromofluorobenzene	95.5			0	85-114	%REC	1	08-Jun-2023 20:24
Surr: 4-Bromofluorobenzene	93.1			0	85-114	%REC	25	09-Jun-2023 15:55
Surr: Dibromofluoromethane	97.3			0	80-119	%REC	1	08-Jun-2023 20:24
Surr: Dibromofluoromethane	96.9			0	80-119	%REC	25	09-Jun-2023 15:55
Surr: Toluene-d8	107			0	89-112	%REC	1	08-Jun-2023 20:24
Surr: Toluene-d8	109			0	89-112	%REC	25	09-Jun-2023 15:55
DISSOLVED GASES BY RSK-175			Method: RSK-175					Analyst: SAM
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	08-Jun-2023 08:44
Ethene	38.9		0.234	0.500	1.00	ug/L	1	08-Jun-2023 08:44
Methane	3,350		10.7	50.0	50.0	ug/L	100	08-Jun-2023 10:54
METALS BY ICPMS BY SW6020A			Method: SW6020A					Prep: SW3010A / 17-Jun-2023 Analyst: JC
Arsenic	0.00174	J	0.000400	0.00125	0.00500	mg/L	1	20-Jun-2023 23:31

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW20_060523
 Collection Date: 05-Jun-2023 07:45

ANALYTICAL REPORT

WorkOrder:HS23060280
 Lab ID:HS23060280-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL ORGANIC CARBON BY E415.1		Method:E415.1					Analyst: DW	
Organic Carbon, Total	15.9		0.500	1.00	1.00	mg/L	1	10-Jun-2023 13:06
ANIONS BY SW9056A		Method:SW9056					Analyst: TH	
Chloride	661		4.00	5.00	10.0	mg/L	20	06-Jun-2023 19:47
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	06-Jun-2023 19:42
Sulfate	1,090		4.00	5.00	10.0	mg/L	20	06-Jun-2023 19:47
SUBCONTRACT ANALYSIS - RSK		Method:NA					Analyst: SUB	
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2023 17:32

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: LHSMW07_060523
 Collection Date: 05-Jun-2023 08:30

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-03
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,1-Dichloroethane	13		0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,1-Dichloroethene	93		0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2-Dichloroethane	0.66	J	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:09
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	08-Jun-2023 18:09
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	08-Jun-2023 18:09
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:09
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	08-Jun-2023 18:09
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 18:09
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	08-Jun-2023 18:09
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: LHSMW07_060523
 Collection Date: 05-Jun-2023 08:30

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-03
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C			Method: SW8260					Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
cis-1,2-Dichloroethene	1.2		0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	08-Jun-2023 18:09
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 18:09
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:09
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Trichloroethene	2.4		0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:09
Vinyl chloride	54		0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:09
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>109</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>08-Jun-2023 18:09</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>94.3</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>08-Jun-2023 18:09</i>
<i>Surr: Dibromofluoromethane</i>	<i>98.6</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>08-Jun-2023 18:09</i>
<i>Surr: Toluene-d8</i>	<i>108</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>08-Jun-2023 18:09</i>
DISSOLVED GASES BY RSK-175			Method: RSK-175					Analyst: SAM
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	08-Jun-2023 08:52
Ethene	20.9		0.234	0.500	1.00	ug/L	1	08-Jun-2023 08:52
Methane	2,860		10.7	50.0	50.0	ug/L	100	08-Jun-2023 11:09
TOTAL ORGANIC CARBON BY E415.1			Method: E415.1					Analyst: DW
Organic Carbon, Total	7.25		0.500	1.00	1.00	mg/L	1	10-Jun-2023 13:20
ANIONS BY SW9056A			Method: SW9056					Analyst: TH
Chloride	1,930		10.0	12.5	25.0	mg/L	50	06-Jun-2023 20:22
Nitrogen, Nitrate (As N)	0.100	U	0.0600	0.100	0.200	mg/L	2	06-Jun-2023 20:16
Sulfate	3,000		10.0	12.5	25.0	mg/L	50	06-Jun-2023 20:22

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: LHSMW07_060523
Collection Date: 05-Jun-2023 08:30

ANALYTICAL REPORT

WorkOrder:HS23060280
Lab ID:HS23060280-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - RSK		Method:NA						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2023 17:32

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW06_060523
 Collection Date: 05-Jun-2023 09:15

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-04
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,1-Dichloroethane	0.56	J	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,1-Dichloroethene	1.2		0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:32
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	08-Jun-2023 18:32
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	08-Jun-2023 18:32
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:32
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	08-Jun-2023 18:32
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 18:32
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	08-Jun-2023 18:32
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW06_060523
 Collection Date: 05-Jun-2023 09:15

ANALYTICAL REPORT

WorkOrder:HS23060280
 Lab ID:HS23060280-04
 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	08-Jun-2023 18:32
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	08-Jun-2023 18:32
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 18:32
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:32
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:32
Surr: 1,2-Dichloroethane-d4	99.4			0	81-118	%REC	1	08-Jun-2023 18:32
Surr: 4-Bromofluorobenzene	94.2			0	85-114	%REC	1	08-Jun-2023 18:32
Surr: Dibromofluoromethane	95.1			0	80-119	%REC	1	08-Jun-2023 18:32
Surr: Toluene-d8	109			0	89-112	%REC	1	08-Jun-2023 18:32
DISSOLVED GASES BY RSK-175			Method:RSK-175					Analyst: SAM
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	08-Jun-2023 09:07
Ethene	0.500	U	0.234	0.500	1.00	ug/L	1	08-Jun-2023 09:07
Methane	4,790		21.4	100	100	ug/L	200	08-Jun-2023 12:17
TOTAL ORGANIC CARBON BY E415.1			Method:E415.1					Analyst: DW
Organic Carbon, Total	7.23		0.500	1.00	1.00	mg/L	1	10-Jun-2023 14:00
ANIONS BY SW9056A			Method:SW9056					Analyst: TH
Chloride	918		4.00	5.00	10.0	mg/L	20	06-Jun-2023 20:34
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	06-Jun-2023 20:28
Sulfate	834		4.00	5.00	10.0	mg/L	20	06-Jun-2023 20:34

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW06_060523
Collection Date: 05-Jun-2023 09:15

ANALYTICAL REPORT

WorkOrder:HS23060280
Lab ID:HS23060280-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - RSK		Method:NA						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2023 17:32

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW23_060523
 Collection Date: 05-Jun-2023 10:05

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-05
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:54
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	08-Jun-2023 18:54
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	08-Jun-2023 18:54
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:54
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	08-Jun-2023 18:54
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 18:54
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	08-Jun-2023 18:54
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW23_060523
 Collection Date: 05-Jun-2023 10:05

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-05
 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	08-Jun-2023 18:54
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	08-Jun-2023 18:54
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 18:54
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 18:54
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Toluene	0.64	J	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 18:54
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 18:54
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			0	<i>81-118</i>	%REC	1	08-Jun-2023 18:54
<i>Surr: 4-Bromofluorobenzene</i>	<i>94.9</i>			0	<i>85-114</i>	%REC	1	08-Jun-2023 18:54
<i>Surr: Dibromofluoromethane</i>	<i>97.2</i>			0	<i>80-119</i>	%REC	1	08-Jun-2023 18:54
<i>Surr: Toluene-d8</i>	<i>108</i>			0	<i>89-112</i>	%REC	1	08-Jun-2023 18:54
DISSOLVED GASES BY RSK-175			Method: RSK-175					Analyst: SAM
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	08-Jun-2023 09:20
Ethene	0.500	U	0.234	0.500	1.00	ug/L	1	08-Jun-2023 09:20
Methane	7,440		21.4	100	100	ug/L	200	08-Jun-2023 12:37
TOTAL ORGANIC CARBON BY E415.1			Method: E415.1					Analyst: DW
Organic Carbon, Total	12.6		0.500	1.00	1.00	mg/L	1	16-Jun-2023 11:59
ANIONS BY SW9056A			Method: SW9056					Analyst: TH
Chloride	1,950		10.0	12.5	25.0	mg/L	50	06-Jun-2023 20:45
Nitrogen, Nitrate (As N)	0.100	U	0.0600	0.100	0.200	mg/L	2	06-Jun-2023 20:40
Sulfate	449		10.0	12.5	25.0	mg/L	50	06-Jun-2023 20:45

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW23_060523
Collection Date: 05-Jun-2023 10:05

ANALYTICAL REPORT

WorkOrder:HS23060280
Lab ID:HS23060280-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - RSK		Method:NA						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2023 17:32

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW11_060523
 Collection Date: 05-Jun-2023 10:55

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-06
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,1-Dichloroethane	0.74	J	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,1-Dichloroethene	2.6		0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:16
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	08-Jun-2023 19:16
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	08-Jun-2023 19:16
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:16
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	08-Jun-2023 19:16
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 19:16
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	08-Jun-2023 19:16
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW11_060523
 Collection Date: 05-Jun-2023 10:55

ANALYTICAL REPORT

WorkOrder:HS23060280
 Lab ID:HS23060280-06
 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	08-Jun-2023 19:16
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	08-Jun-2023 19:16
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 19:16
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:16
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:16
Vinyl chloride	0.61	J	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:16
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.9</i>			0	<i>81-118</i>	%REC	1	08-Jun-2023 19:16
<i>Surr: 4-Bromofluorobenzene</i>	<i>94.4</i>			0	<i>85-114</i>	%REC	1	08-Jun-2023 19:16
<i>Surr: Dibromofluoromethane</i>	<i>91.6</i>			0	<i>80-119</i>	%REC	1	08-Jun-2023 19:16
<i>Surr: Toluene-d8</i>	<i>110</i>			0	<i>89-112</i>	%REC	1	08-Jun-2023 19:16
DISSOLVED GASES BY RSK-175			Method:RSK-175					Analyst: SAM
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	08-Jun-2023 09:37
Ethene	0.500	U	0.234	0.500	1.00	ug/L	1	08-Jun-2023 09:37
Methane	6,110		21.4	100	100	ug/L	200	08-Jun-2023 12:52
TOTAL ORGANIC CARBON BY E415.1			Method:E415.1					Analyst: DW
Organic Carbon, Total	7.35		0.500	1.00	1.00	mg/L	1	16-Jun-2023 12:45
ANIONS BY SW9056A			Method:SW9056					Analyst: TH
Chloride	779		4.00	5.00	10.0	mg/L	20	06-Jun-2023 20:57
Nitrogen, Nitrate (As N)	0.121		0.0300	0.0500	0.100	mg/L	1	06-Jun-2023 20:51
Sulfate	1.23		0.200	0.250	0.500	mg/L	1	06-Jun-2023 20:51

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW11_060523
Collection Date: 05-Jun-2023 10:55

ANALYTICAL REPORT

WorkOrder:HS23060280
Lab ID:HS23060280-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - RSK		Method:NA						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	12-Jun-2023 17:32

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW22_060523
 Collection Date: 05-Jun-2023 11:45

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-07
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:39
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	08-Jun-2023 19:39
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	08-Jun-2023 19:39
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:39
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	08-Jun-2023 19:39
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 19:39
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	08-Jun-2023 19:39
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW22_060523
 Collection Date: 05-Jun-2023 11:45

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-07
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	08-Jun-2023 19:39
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 19:39
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 19:39
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 19:39
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 19:39
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>08-Jun-2023 19:39</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>92.7</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>08-Jun-2023 19:39</i>
<i>Surr: Dibromofluoromethane</i>	<i>97.1</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>08-Jun-2023 19:39</i>
<i>Surr: Toluene-d8</i>	<i>111</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>08-Jun-2023 19:39</i>

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW12_060523
 Collection Date: 05-Jun-2023 12:25

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-08
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:01
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	08-Jun-2023 20:01
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	08-Jun-2023 20:01
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:01
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	08-Jun-2023 20:01
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 20:01
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	08-Jun-2023 20:01
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW12_060523
 Collection Date: 05-Jun-2023 12:25

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-08
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	08-Jun-2023 20:01
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	08-Jun-2023 20:01
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	08-Jun-2023 20:01
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	08-Jun-2023 20:01
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	08-Jun-2023 20:01
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>08-Jun-2023 20:01</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>93.1</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>08-Jun-2023 20:01</i>
<i>Surr: Dibromofluoromethane</i>	<i>96.7</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>08-Jun-2023 20:01</i>
<i>Surr: Toluene-d8</i>	<i>108</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>08-Jun-2023 20:01</i>

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW12_060523_a
 Collection Date: 05-Jun-2023 12:25

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-09
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 13:19
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	09-Jun-2023 13:19
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	09-Jun-2023 13:19
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 13:19
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	09-Jun-2023 13:19
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	09-Jun-2023 13:19
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	09-Jun-2023 13:19
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: 35AWW12_060523_a
 Collection Date: 05-Jun-2023 12:25

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-09
 Matrix: Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	09-Jun-2023 13:19
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	09-Jun-2023 13:19
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 13:19
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 13:19
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 13:19
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>09-Jun-2023 13:19</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>93.7</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>09-Jun-2023 13:19</i>
<i>Surr: Dibromofluoromethane</i>	<i>96.8</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>09-Jun-2023 13:19</i>
<i>Surr: Toluene-d8</i>	<i>109</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>09-Jun-2023 13:19</i>

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: Trip Blank
 Collection Date: 05-Jun-2023 00:00

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-10
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 12:56
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
2-Butanone	0.50	U	0.50	0.50	2.0	ug/L	1	09-Jun-2023 12:56
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
2-Hexanone	0.50	U	1.0	0.50	2.0	ug/L	1	09-Jun-2023 12:56
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 12:56
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
4-Methyl-2-pentanone	0.50	U	0.70	0.50	2.0	ug/L	1	09-Jun-2023 12:56
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	09-Jun-2023 12:56
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Carbon disulfide	0.50	U	0.60	0.50	2.0	ug/L	1	09-Jun-2023 12:56
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56

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



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
 Project: LHAAP-58
 Sample ID: Trip Blank
 Collection Date: 05-Jun-2023 00:00

ANALYTICAL REPORT

WorkOrder: HS23060280
 Lab ID: HS23060280-10
 Matrix: Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD		Method: SW8260						Analyst: PC
8260C								
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	09-Jun-2023 12:56
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	09-Jun-2023 12:56
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	09-Jun-2023 12:56
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	09-Jun-2023 12:56
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	09-Jun-2023 12:56
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			0	<i>81-118</i>	%REC	<i>1</i>	<i>09-Jun-2023 12:56</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.1</i>			0	<i>85-114</i>	%REC	<i>1</i>	<i>09-Jun-2023 12:56</i>
<i>Surr: Dibromofluoromethane</i>	<i>95.5</i>			0	<i>80-119</i>	%REC	<i>1</i>	<i>09-Jun-2023 12:56</i>
<i>Surr: Toluene-d8</i>	<i>108</i>			0	<i>89-112</i>	%REC	<i>1</i>	<i>09-Jun-2023 12:56</i>

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



Weight / Prep Log

Client: Bhate Environmental Associates, Inc.**Project:** LHAAP-58**WorkOrder:** HS23060280**Batch ID:** 195358**Start Date:** 17 Jun 2023 11:00**End Date:** 17 Jun 2023 11:00**Method:** WATER - SW3010A**Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23060280-02		10 (mL)	10 (mL)	1	120 plastic HNO3



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 195358 (0)		Test Name : METALS BY ICPMS BY SW6020A			Matrix: Groundwater	
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45		17 Jun 2023 11:00	20 Jun 2023 23:31	1
Batch ID: R437236 (0)		Test Name : ANIONS BY SW9056A			Matrix: Groundwater	
HS23060280-01	35AWW19_060523	05 Jun 2023 06:55			06 Jun 2023 19:36	20
HS23060280-01	35AWW19_060523	05 Jun 2023 06:55			06 Jun 2023 19:30	1
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45			06 Jun 2023 19:47	20
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45			06 Jun 2023 19:42	1
HS23060280-03	LHSMW07_060523	05 Jun 2023 08:30			06 Jun 2023 20:22	50
HS23060280-03	LHSMW07_060523	05 Jun 2023 08:30			06 Jun 2023 20:16	2
HS23060280-04	35AWW06_060523	05 Jun 2023 09:15			06 Jun 2023 20:34	20
HS23060280-04	35AWW06_060523	05 Jun 2023 09:15			06 Jun 2023 20:28	1
HS23060280-05	35AWW23_060523	05 Jun 2023 10:05			06 Jun 2023 20:45	50
HS23060280-05	35AWW23_060523	05 Jun 2023 10:05			06 Jun 2023 20:40	2
HS23060280-06	35AWW11_060523	05 Jun 2023 10:55			06 Jun 2023 20:57	20
HS23060280-06	35AWW11_060523	05 Jun 2023 10:55			06 Jun 2023 20:51	1
Batch ID: R437473 (0)		Test Name : VOLATILES ORGANICS BY METHOD 8260C			Matrix: Groundwater	
HS23060280-01	35AWW19_060523	05 Jun 2023 06:55			08 Jun 2023 17:47	1
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45			08 Jun 2023 20:24	1
HS23060280-03	LHSMW07_060523	05 Jun 2023 08:30			08 Jun 2023 18:09	1
HS23060280-04	35AWW06_060523	05 Jun 2023 09:15			08 Jun 2023 18:32	1
HS23060280-05	35AWW23_060523	05 Jun 2023 10:05			08 Jun 2023 18:54	1
HS23060280-06	35AWW11_060523	05 Jun 2023 10:55			08 Jun 2023 19:16	1
HS23060280-07	35AWW22_060523	05 Jun 2023 11:45			08 Jun 2023 19:39	1
HS23060280-08	35AWW12_060523	05 Jun 2023 12:25			08 Jun 2023 20:01	1
Batch ID: R437509 (1)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Groundwater	
HS23060280-01	35AWW19_060523	05 Jun 2023 06:55			08 Jun 2023 08:23	1
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45			08 Jun 2023 10:54	100
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45			08 Jun 2023 08:44	1
HS23060280-03	LHSMW07_060523	05 Jun 2023 08:30			08 Jun 2023 11:09	100
HS23060280-03	LHSMW07_060523	05 Jun 2023 08:30			08 Jun 2023 08:52	1
HS23060280-04	35AWW06_060523	05 Jun 2023 09:15			08 Jun 2023 12:17	200
HS23060280-04	35AWW06_060523	05 Jun 2023 09:15			08 Jun 2023 09:07	1
HS23060280-05	35AWW23_060523	05 Jun 2023 10:05			08 Jun 2023 12:37	200
HS23060280-05	35AWW23_060523	05 Jun 2023 10:05			08 Jun 2023 09:20	1
HS23060280-06	35AWW11_060523	05 Jun 2023 10:55			08 Jun 2023 12:52	200
HS23060280-06	35AWW11_060523	05 Jun 2023 10:55			08 Jun 2023 09:37	1



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R437619 (0)		Test Name : TOTAL ORGANIC CARBON BY E415.1			Matrix: Groundwater	
HS23060280-01	35AWW19_060523	05 Jun 2023 06:55			10 Jun 2023 12:52	1
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45			10 Jun 2023 13:06	1
HS23060280-03	LHSMW07_060523	05 Jun 2023 08:30			10 Jun 2023 13:20	1
HS23060280-04	35AWW06_060523	05 Jun 2023 09:15			10 Jun 2023 14:00	1
Batch ID: R437641 (0)		Test Name : VOLATILES ORGANICS BY METHOD 8260C			Matrix: Water	
HS23060280-10	Trip Blank	05 Jun 2023 00:00			09 Jun 2023 12:56	1
Batch ID: R437641 (0)		Test Name : VOLATILES ORGANICS BY METHOD 8260C			Matrix: Groundwater	
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45			09 Jun 2023 15:55	25
HS23060280-09	35AWW12_060523_a	05 Jun 2023 12:25			09 Jun 2023 13:19	1
Batch ID: R437661 (0)		Test Name : SUBCONTRACT ANALYSIS - RSK			Matrix: Groundwater	
HS23060280-01	35AWW19_060523	05 Jun 2023 06:55			12 Jun 2023 17:32	1
HS23060280-02	35AWW20_060523	05 Jun 2023 07:45			12 Jun 2023 17:32	1
HS23060280-03	LHSMW07_060523	05 Jun 2023 08:30			12 Jun 2023 17:32	1
HS23060280-04	35AWW06_060523	05 Jun 2023 09:15			12 Jun 2023 17:32	1
HS23060280-05	35AWW23_060523	05 Jun 2023 10:05			12 Jun 2023 17:32	1
HS23060280-06	35AWW11_060523	05 Jun 2023 10:55			12 Jun 2023 17:32	1
Batch ID: R437997 (0)		Test Name : TOTAL ORGANIC CARBON BY E415.1			Matrix: Groundwater	
HS23060280-05	35AWW23_060523	05 Jun 2023 10:05			16 Jun 2023 11:59	1
HS23060280-06	35AWW11_060523	05 Jun 2023 10:55			16 Jun 2023 12:45	1



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437509 (1)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175						
MBLK	Sample ID: MBLK-230608	Units: ug/L		Analysis Date: 08-Jun-2023 07:19						
Client ID:	Run ID: FID-4_437509	SeqNo: 7354692		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.500	1.00								U
Ethene	0.500	1.00								U
Methane	0.500	0.500								U

LCS	Sample ID: LCS-230608	Units: ug/L		Analysis Date: 08-Jun-2023 07:44						
Client ID:	Run ID: FID-4_437509	SeqNo: 7354693		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	20.94	1.00	18.04	0	116	74 - 131				
Ethene	17.88	1.00	16.8	0	106	72 - 133				
Methane	8.002	0.500	9.647	0	82.9	73 - 125				

LCSD	Sample ID: LCSD-230608	Units: ug/L		Analysis Date: 08-Jun-2023 08:08						
Client ID:	Run ID: FID-4_437509	SeqNo: 7354694		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	20.96	1.00	18.04	0	116	74 - 131	20.94	0.0929	30	
Ethene	17.4	1.00	16.8	0	104	72 - 133	17.88	2.71	30	
Methane	8.053	0.500	9.647	0	83.5	73 - 125	8.002	0.639	30	

DUP	Sample ID: HS23060280-01DUP	Units: ug/L		Analysis Date: 08-Jun-2023 10:26						
Client ID: 35AWW19_060523	Run ID: FID-4_437509	SeqNo: 7354702		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.500	1.00					0	0	30	U
Ethene	0.500	1.00					0	0	30	U
Methane	1.437	0.500					1.278	11.7	30	

The following samples were analyzed in this batch: HS23060280-01 HS23060280-02 HS23060280-03 HS23060280-04
 HS23060280-05 HS23060280-06



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Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: 195358 (0)		Instrument: ICPMS06		Method: METALS BY ICPMS BY SW6020A						
MBLK	Sample ID: MBLK-195358	Units: mg/L		Analysis Date: 20-Jun-2023 13:53						
Client ID:	Run ID: ICPMS06_439315	SeqNo: 7372996		PrepDate: 17-Jun-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.00125	0.00500								U
LCS	Sample ID: LCS-195358	Units: mg/L		Analysis Date: 20-Jun-2023 13:55						
Client ID:	Run ID: ICPMS06_439315	SeqNo: 7372997		PrepDate: 17-Jun-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04639	0.00500	0.05	0	92.8	84 - 116				
MS	Sample ID: HS23060391-02MS	Units: mg/L		Analysis Date: 20-Jun-2023 14:14						
Client ID:	Run ID: ICPMS06_439315	SeqNo: 7373002		PrepDate: 17-Jun-2023		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04817	0.0250	0.05	0.000674	95.0	84 - 116				
MSD	Sample ID: HS23060391-02MSD	Units: mg/L		Analysis Date: 20-Jun-2023 14:16						
Client ID:	Run ID: ICPMS06_439315	SeqNo: 7373003		PrepDate: 17-Jun-2023		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0487	0.0250	0.05	0.000674	96.0	84 - 116	0.04817	1.09	20	
PDS	Sample ID: HS23060391-02PDS	Units: mg/L		Analysis Date: 20-Jun-2023 14:18						
Client ID:	Run ID: ICPMS06_439315	SeqNo: 7373004		PrepDate: 17-Jun-2023		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.5161	0.0250	0.5	0	103	80 - 120				
SD	Sample ID: HS23060391-02SD	Units: mg/L		Analysis Date: 20-Jun-2023 14:12						
Client ID:	Run ID: ICPMS06_439315	SeqNo: 7373001		PrepDate: 17-Jun-2023		DF: 25				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Arsenic	0.0312	0.125					0.000674	0	10	U
The following samples were analyzed in this batch: HS23060280-02										



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MBLK	Sample ID: VBLKW-230608	Units: ug/L		Analysis Date: 08-Jun-2023 12:33					
Client ID:	Run ID: VOA9_437473	SeqNo: 7353696		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	0.50	1.0							U
1,1,1-Trichloroethane	0.50	1.0							U
1,1,2,2-Tetrachloroethane	0.50	1.0							U
1,1,2-Trichloroethane	0.50	1.0							U
1,1-Dichloroethane	0.50	1.0							U
1,1-Dichloroethene	0.50	1.0							U
1,1-Dichloropropene	0.50	1.0							U
1,2,3-Trichlorobenzene	0.50	1.0							U
1,2,3-Trichloropropane	0.50	1.0							U
1,2,4-Trichlorobenzene	0.50	1.0							U
1,2,4-Trimethylbenzene	0.50	1.0							U
1,2-Dibromo-3-chloropropane	0.50	1.0							U
1,2-Dibromoethane	0.50	1.0							U
1,2-Dichlorobenzene	0.50	1.0							U
1,2-Dichloroethane	0.50	1.0							U
1,2-Dichloropropane	0.50	1.0							U
1,3,5-Trimethylbenzene	0.50	1.0							U
1,3-Dichlorobenzene	0.50	1.0							U
1,3-Dichloropropane	0.50	1.0							U
1,4-Dichlorobenzene	0.50	1.0							U
2,2-Dichloropropane	0.50	1.0							U
2-Butanone	0.50	2.0							U
2-Chlorotoluene	0.50	1.0							U
2-Hexanone	0.50	2.0							U
4-Chlorotoluene	0.50	1.0							U
4-Isopropyltoluene	0.50	1.0							U
4-Methyl-2-pentanone	0.50	2.0							U
Acetone	0.50	2.0							U
Benzene	0.50	1.0							U
Bromobenzene	0.50	1.0							U
Bromochloromethane	0.50	1.0							U
Bromodichloromethane	0.50	1.0							U
Bromoform	0.50	1.0							U
Bromomethane	0.50	1.0							U



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MBLK	Sample ID: VBLKW-230608	Units: ug/L		Analysis Date: 08-Jun-2023 12:33					
Client ID:	Run ID: VOA9_437473	SeqNo: 7353696		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	0.50	2.0							U
Carbon tetrachloride	0.50	1.0							U
Chlorobenzene	0.50	1.0							U
Chloroethane	0.50	1.0							U
Chloroform	0.50	1.0							U
Chloromethane	0.50	1.0							U
cis-1,2-Dichloroethene	0.50	1.0							U
cis-1,3-Dichloropropene	0.50	1.0							U
Dibromochloromethane	0.50	1.0							U
Dibromomethane	0.50	1.0							U
Dichlorodifluoromethane	0.50	1.0							U
Ethylbenzene	0.50	1.0							U
Hexachlorobutadiene	0.50	1.0							U
Isopropylbenzene	0.50	1.0							U
m,p-Xylene	1.0	2.0							U
Methylene chloride	0.50	2.0							U
Naphthalene	0.50	1.0							U
n-Butylbenzene	0.50	1.0							U
n-Propylbenzene	0.50	1.0							U
o-Xylene	0.50	1.0							U
sec-Butylbenzene	0.50	1.0							U
Styrene	0.50	1.0							U
tert-Butylbenzene	0.50	1.0							U
Tetrachloroethene	0.50	1.0							U
Toluene	0.50	1.0							U
trans-1,2-Dichloroethene	0.50	1.0							U
trans-1,3-Dichloropropene	0.50	1.0							U
Trichloroethene	0.50	1.0							U
Trichlorofluoromethane	0.50	1.0							U
Vinyl chloride	0.50	1.0							U
Surr: 1,2-Dichloroethane-d4	49.24	1.0	50	0	98.5	81 - 118			
Surr: 4-Bromofluorobenzene	47.11	1.0	50	0	94.2	85 - 114			
Surr: Dibromofluoromethane	48.32	1.0	50	0	96.6	80 - 119			
Surr: Toluene-d8	53.69	1.0	50	0	107	89 - 112			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
LCS		Sample ID: VLCSW-230608		Units: ug/L		Analysis Date: 08-Jun-2023 12:11			
Client ID:		Run ID: VOA9_437473		SeqNo: 7353695		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	19.27	1.0	20	0	96.3	78 - 124			
1,1,1-Trichloroethane	18.37	1.0	20	0	91.8	74 - 131			
1,1,2,2-Tetrachloroethane	18.12	1.0	20	0	90.6	71 - 121			
1,1,2-Trichloroethane	18.98	1.0	20	0	94.9	80 - 119			
1,1-Dichloroethane	17.89	1.0	20	0	89.4	77 - 125			
1,1-Dichloroethene	18.14	1.0	20	0	90.7	71 - 131			
1,1-Dichloropropene	19.61	1.0	20	0	98.0	78 - 125			
1,2,3-Trichlorobenzene	18.95	1.0	20	0	94.7	69 - 129			
1,2,3-Trichloropropane	18.18	1.0	20	0	90.9	73 - 122			
1,2,4-Trichlorobenzene	18.5	1.0	20	0	92.5	69 - 130			
1,2,4-Trimethylbenzene	19.03	1.0	20	0	95.1	76 - 124			
1,2-Dibromo-3-chloropropane	17.36	1.0	20	0	86.8	62 - 128			
1,2-Dibromoethane	19.03	1.0	20	0	95.1	77 - 121			
1,2-Dichlorobenzene	18.95	1.0	20	0	94.7	80 - 119			
1,2-Dichloroethane	19.4	1.0	20	0	97.0	73 - 128			
1,2-Dichloropropane	19.61	1.0	20	0	98.0	78 - 122			
1,3,5-Trimethylbenzene	18.81	1.0	20	0	94.0	75 - 124			
1,3-Dichlorobenzene	18.98	1.0	20	0	94.9	80 - 119			
1,3-Dichloropropane	19.14	1.0	20	0	95.7	80 - 119			
1,4-Dichlorobenzene	18.65	1.0	20	0	93.3	79 - 118			
2,2-Dichloropropane	19.31	1.0	20	0	96.6	60 - 139			
2-Butanone	35.65	2.0	40	0	89.1	56 - 143			
2-Chlorotoluene	19.78	1.0	20	0	98.9	79 - 122			
2-Hexanone	36.81	2.0	40	0	92.0	57 - 139			
4-Chlorotoluene	19.84	1.0	20	0	99.2	78 - 122			
4-Isopropyltoluene	18.89	1.0	20	0	94.5	77 - 127			
4-Methyl-2-pentanone	38.54	2.0	40	0	96.3	67 - 130			
Acetone	39.19	2.0	40	0	98.0	39 - 160			
Benzene	19.68	1.0	20	0	98.4	79 - 120			
Bromobenzene	18.91	1.0	20	0	94.5	80 - 120			
Bromochloromethane	18.33	1.0	20	0	91.6	78 - 123			
Bromodichloromethane	19.15	1.0	20	0	95.7	79 - 125			
Bromoform	19.25	1.0	20	0	96.3	66 - 130			
Bromomethane	21.61	1.0	20	0	108	53 - 141			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
LCS		Sample ID: VLCSW-230608		Units: ug/L		Analysis Date: 08-Jun-2023 12:11			
Client ID:		Run ID: VOA9_437473		SeqNo: 7353695		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	37.44	2.0	40	0	93.6	64 - 133			
Carbon tetrachloride	18.13	1.0	20	0	90.6	72 - 136			
Chlorobenzene	19.45	1.0	20	0	97.3	82 - 118			
Chloroethane	17.73	1.0	20	0	88.6	60 - 138			
Chloroform	18.71	1.0	20	0	93.6	79 - 124			
Chloromethane	17.44	1.0	20	0	87.2	50 - 139			
cis-1,2-Dichloroethene	18.29	1.0	20	0	91.5	78 - 123			
cis-1,3-Dichloropropene	18.07	1.0	20	0	90.3	75 - 124			
Dibromochloromethane	19.73	1.0	20	0	98.7	74 - 126			
Dibromomethane	19.64	1.0	20	0	98.2	79 - 123			
Dichlorodifluoromethane	17.1	1.0	20	0	85.5	32 - 152			
Ethylbenzene	19.63	1.0	20	0	98.2	79 - 121			
Hexachlorobutadiene	20.82	1.0	20	0	104	66 - 134			
Isopropylbenzene	20.22	1.0	20	0	101	72 - 131			
m,p-Xylene	41.31	2.0	40	0	103	80 - 121			
Methylene chloride	19.61	2.0	20	0	98.1	74 - 124			
Naphthalene	19.07	1.0	20	0	95.4	61 - 128			
n-Butylbenzene	18.99	1.0	20	0	94.9	75 - 128			
n-Propylbenzene	19.39	1.0	20	0	97.0	76 - 126			
o-Xylene	20.11	1.0	20	0	101	78 - 122			
sec-Butylbenzene	18.68	1.0	20	0	93.4	77 - 126			
Styrene	21.5	1.0	20	0	107	78 - 123			
tert-Butylbenzene	18.74	1.0	20	0	93.7	78 - 124			
Tetrachloroethene	19.77	1.0	20	0	98.9	74 - 129			
Toluene	19.8	1.0	20	0	99.0	80 - 121			
trans-1,2-Dichloroethene	18.75	1.0	20	0	93.8	75 - 124			
trans-1,3-Dichloropropene	17.79	1.0	20	0	88.9	73 - 127			
Trichloroethene	19.27	1.0	20	0	96.3	79 - 123			
Trichlorofluoromethane	18.17	1.0	20	0	90.9	65 - 141			
Vinyl chloride	18.19	1.0	20	0	91.0	58 - 137			
Surr: 1,2-Dichloroethane-d4	50.06	1.0	50	0	100	81 - 118			
Surr: 4-Bromofluorobenzene	54.52	1.0	50	0	109	85 - 114			
Surr: Dibromofluoromethane	50.74	1.0	50	0	101	80 - 119			
Surr: Toluene-d8	51.04	1.0	50	0	102	89 - 112			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MS		Sample ID: HS23060241-04MS		Units: ug/L		Analysis Date: 08-Jun-2023 16:17			
Client ID:		Run ID: VOA9_437473		SeqNo: 7353703		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	21.82	1.0	20	0	109	78 - 124			
1,1,1-Trichloroethane	20.66	1.0	20	0	103	74 - 131			
1,1,2,2-Tetrachloroethane	19.4	1.0	20	0	97.0	71 - 121			
1,1,2-Trichloroethane	20.43	1.0	20	0	102	80 - 119			
1,1-Dichloroethane	26.6	1.0	20	8.185	92.1	77 - 125			
1,1-Dichloroethene	24.67	1.0	20	4.755	99.6	71 - 131			
1,1-Dichloropropene	23.43	1.0	20	0	117	78 - 125			
1,2,3-Trichlorobenzene	19.76	1.0	20	0	98.8	69 - 129			
1,2,3-Trichloropropane	19.18	1.0	20	0	95.9	73 - 122			
1,2,4-Trichlorobenzene	19.83	1.0	20	0	99.1	69 - 130			
1,2,4-Trimethylbenzene	20.87	1.0	20	0	104	76 - 124			
1,2-Dibromo-3-chloropropane	18.31	1.0	20	0	91.6	62 - 128			
1,2-Dibromoethane	20.07	1.0	20	0	100	77 - 121			
1,2-Dichlorobenzene	20.94	1.0	20	0	105	80 - 119			
1,2-Dichloroethane	22.18	1.0	20	0	111	73 - 128			
1,2-Dichloropropane	24.61	1.0	20	3.915	103	78 - 122			
1,3,5-Trimethylbenzene	21.97	1.0	20	0	110	75 - 124			
1,3-Dichlorobenzene	21.23	1.0	20	0	106	80 - 119			
1,3-Dichloropropane	20.99	1.0	20	0	105	80 - 119			
1,4-Dichlorobenzene	20.85	1.0	20	0	104	79 - 118			
2,2-Dichloropropane	20.67	1.0	20	0	103	60 - 139			
2-Butanone	31.62	2.0	40	0	79.1	56 - 143			
2-Chlorotoluene	22.62	1.0	20	0	113	79 - 122			
2-Hexanone	37.17	2.0	40	0	92.9	57 - 139			
4-Chlorotoluene	22.66	1.0	20	0	113	78 - 122			
4-Isopropyltoluene	22.69	1.0	20	0	113	77 - 127			
4-Methyl-2-pentanone	39.92	2.0	40	0	99.8	67 - 130			
Acetone	28.83	2.0	40	0	72.1	39 - 160			
Benzene	21.81	1.0	20	0	109	79 - 120			
Bromobenzene	21.14	1.0	20	0	106	80 - 120			
Bromochloromethane	17.8	1.0	20	0	89.0	78 - 123			
Bromodichloromethane	20.73	1.0	20	0	104	79 - 125			
Bromoform	19.68	1.0	20	0	98.4	66 - 130			
Bromomethane	19.26	1.0	20	0	96.3	53 - 141			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MS		Sample ID: HS23060241-04MS		Units: ug/L		Analysis Date: 08-Jun-2023 16:17			
Client ID:		Run ID: VOA9_437473		SeqNo: 7353703		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	40.54	2.0	40	0	101	64 - 133			
Carbon tetrachloride	23.4	1.0	20	0	117	72 - 136			
Chlorobenzene	21.73	1.0	20	0	109	82 - 118			
Chloroethane	18.46	1.0	20	0	92.3	60 - 138			
Chloroform	24.72	1.0	20	5.021	98.5	79 - 124			
Chloromethane	19.45	1.0	20	0	97.3	50 - 139			
cis-1,2-Dichloroethene	54.88	1.0	20	36.21	93.4	78 - 123			
cis-1,3-Dichloropropene	19.14	1.0	20	0	95.7	75 - 124			
Dibromochloromethane	21.2	1.0	20	0	106	74 - 126			
Dibromomethane	20.58	1.0	20	0	103	79 - 123			
Dichlorodifluoromethane	12.71	1.0	20	0	63.5	32 - 152			
Ethylbenzene	23.47	1.0	20	0	117	79 - 121			
Hexachlorobutadiene	22.44	1.0	20	0	112	66 - 134			
Isopropylbenzene	24.94	1.0	20	0	125	72 - 131			
m,p-Xylene	48.15	2.0	40	0	120	80 - 121			
Methylene chloride	19.22	2.0	20	0	96.1	74 - 124			
Naphthalene	19.5	1.0	20	0	97.5	61 - 128			
n-Butylbenzene	22.87	1.0	20	0	114	75 - 128			
n-Propylbenzene	23.31	1.0	20	0	117	76 - 126			
o-Xylene	22.89	1.0	20	0	114	78 - 122			
sec-Butylbenzene	24.01	1.0	20	0	120	77 - 126			
Styrene	23.19	1.0	20	0	116	78 - 123			
tert-Butylbenzene	23.5	1.0	20	0	118	78 - 124			
Tetrachloroethene	41.27	1.0	20	16.72	123	74 - 129			
Toluene	23.02	1.0	20	0	115	80 - 121			
trans-1,2-Dichloroethene	20.99	1.0	20	0.4192	103	75 - 124			
trans-1,3-Dichloropropene	18.25	1.0	20	0	91.3	73 - 127			
Trichloroethene	41.55	1.0	20	20.45	105	79 - 123			
Trichlorofluoromethane	21.75	1.0	20	0	109	65 - 141			
Vinyl chloride	19.08	1.0	20	0.4409	93.2	58 - 137			
Surr: 1,2-Dichloroethane-d4	49.05	1.0	50	0	98.1	81 - 118			
Surr: 4-Bromofluorobenzene	50.06	1.0	50	0	100	85 - 114			
Surr: Dibromofluoromethane	48.64	1.0	50	0	97.3	80 - 119			
Surr: Toluene-d8	55.21	1.0	50	0	110	89 - 112			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MSD		Sample ID: HS23060241-04MSD		Units: ug/L		Analysis Date: 08-Jun-2023 16:40			
Client ID:		Run ID: VOA9_437473		SeqNo: 7353704		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	21.9	1.0	20	0	109	78 - 124	21.82	0.33	20
1,1,1-Trichloroethane	20.39	1.0	20	0	102	74 - 131	20.66	1.32	20
1,1,2,2-Tetrachloroethane	19.98	1.0	20	0	99.9	71 - 121	19.4	2.97	20
1,1,2-Trichloroethane	21.64	1.0	20	0	108	80 - 119	20.43	5.74	20
1,1-Dichloroethane	26.17	1.0	20	8.185	89.9	77 - 125	26.6	1.64	20
1,1-Dichloroethene	24.22	1.0	20	4.755	97.3	71 - 131	24.67	1.87	20
1,1-Dichloropropene	22.9	1.0	20	0	114	78 - 125	23.43	2.31	20
1,2,3-Trichlorobenzene	21.06	1.0	20	0	105	69 - 129	19.76	6.35	20
1,2,3-Trichloropropane	20.04	1.0	20	0	100	73 - 122	19.18	4.43	20
1,2,4-Trichlorobenzene	20.61	1.0	20	0	103	69 - 130	19.83	3.86	20
1,2,4-Trimethylbenzene	21.46	1.0	20	0	107	76 - 124	20.87	2.81	20
1,2-Dibromo-3-chloropropane	19.66	1.0	20	0	98.3	62 - 128	18.31	7.11	20
1,2-Dibromoethane	21.09	1.0	20	0	105	77 - 121	20.07	4.97	20
1,2-Dichlorobenzene	21.15	1.0	20	0	106	80 - 119	20.94	1.01	20
1,2-Dichloroethane	21.5	1.0	20	0	108	73 - 128	22.18	3.09	20
1,2-Dichloropropane	24.31	1.0	20	3.915	102	78 - 122	24.61	1.23	20
1,3,5-Trimethylbenzene	22.26	1.0	20	0	111	75 - 124	21.97	1.32	20
1,3-Dichlorobenzene	21.58	1.0	20	0	108	80 - 119	21.23	1.64	20
1,3-Dichloropropane	21.46	1.0	20	0	107	80 - 119	20.99	2.2	20
1,4-Dichlorobenzene	20.97	1.0	20	0	105	79 - 118	20.85	0.563	20
2,2-Dichloropropane	20.18	1.0	20	0	101	60 - 139	20.67	2.41	20
2-Butanone	34.03	2.0	40	0	85.1	56 - 143	31.62	7.33	20
2-Chlorotoluene	22.61	1.0	20	0	113	79 - 122	22.62	0.053	20
2-Hexanone	40.23	2.0	40	0	101	57 - 139	37.17	7.93	20
4-Chlorotoluene	22.45	1.0	20	0	112	78 - 122	22.66	0.914	20
4-Isopropyltoluene	23.25	1.0	20	0	116	77 - 127	22.69	2.42	20
4-Methyl-2-pentanone	42.72	2.0	40	0	107	67 - 130	39.92	6.78	20
Acetone	28.85	2.0	40	0	72.1	39 - 160	28.83	0.0926	20
Benzene	21.82	1.0	20	0	109	79 - 120	21.81	0.0851	20
Bromobenzene	21.26	1.0	20	0	106	80 - 120	21.14	0.563	20
Bromochloromethane	19.05	1.0	20	0	95.2	78 - 123	17.8	6.79	20
Bromodichloromethane	20.57	1.0	20	0	103	79 - 125	20.73	0.821	20
Bromoform	20.65	1.0	20	0	103	66 - 130	19.68	4.83	20
Bromomethane	19.72	1.0	20	0	98.6	53 - 141	19.26	2.36	20



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MSD		Sample ID: HS23060241-04MSD		Units: ug/L		Analysis Date: 08-Jun-2023 16:40			
Client ID:		Run ID: VOA9_437473		SeqNo: 7353704		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	39.95	2.0	40	0	99.9	64 - 133	40.54	1.46	20
Carbon tetrachloride	23.33	1.0	20	0	117	72 - 136	23.4	0.317	20
Chlorobenzene	22.05	1.0	20	0	110	82 - 118	21.73	1.47	20
Chloroethane	17.92	1.0	20	0	89.6	60 - 138	18.46	2.97	20
Chloroform	24.37	1.0	20	5.021	96.7	79 - 124	24.72	1.44	20
Chloromethane	18.19	1.0	20	0	90.9	50 - 139	19.45	6.71	20
cis-1,2-Dichloroethene	54.25	1.0	20	36.21	90.2	78 - 123	54.88	1.16	20
cis-1,3-Dichloropropene	18.93	1.0	20	0	94.6	75 - 124	19.14	1.12	20
Dibromochloromethane	21.97	1.0	20	0	110	74 - 126	21.2	3.55	20
Dibromomethane	20.09	1.0	20	0	100	79 - 123	20.58	2.4	20
Dichlorodifluoromethane	12.72	1.0	20	0	63.6	32 - 152	12.71	0.0859	20
Ethylbenzene	23.73	1.0	20	0	119	79 - 121	23.47	1.11	20
Hexachlorobutadiene	22.64	1.0	20	0	113	66 - 134	22.44	0.89	20
Isopropylbenzene	24.79	1.0	20	0	124	72 - 131	24.94	0.636	20
m,p-Xylene	48.16	2.0	40	0	120	80 - 121	48.15	0.0158	20
Methylene chloride	19.14	2.0	20	0	95.7	74 - 124	19.22	0.436	20
Naphthalene	21.84	1.0	20	0	109	61 - 128	19.5	11.3	20
n-Butylbenzene	23.44	1.0	20	0	117	75 - 128	22.87	2.46	20
n-Propylbenzene	24.27	1.0	20	0	121	76 - 126	23.31	4.01	20
o-Xylene	23.15	1.0	20	0	116	78 - 122	22.89	1.12	20
sec-Butylbenzene	24.53	1.0	20	0	123	77 - 126	24.01	2.15	20
Styrene	23.56	1.0	20	0	118	78 - 123	23.19	1.58	20
tert-Butylbenzene	23.96	1.0	20	0	120	78 - 124	23.5	1.92	20
Tetrachloroethene	41.46	1.0	20	16.72	124	74 - 129	41.27	0.458	20
Toluene	23.4	1.0	20	0	117	80 - 121	23.02	1.63	20
trans-1,2-Dichloroethene	20.13	1.0	20	0.4192	98.5	75 - 124	20.99	4.21	20
trans-1,3-Dichloropropene	18.85	1.0	20	0	94.2	73 - 127	18.25	3.23	20
Trichloroethene	41.63	1.0	20	20.45	106	79 - 123	41.55	0.193	20
Trichlorofluoromethane	20.51	1.0	20	0	103	65 - 141	21.75	5.87	20
Vinyl chloride	18.76	1.0	20	0.4409	91.6	58 - 137	19.08	1.72	20
Surr: 1,2-Dichloroethane-d4	48.69	1.0	50	0	97.4	81 - 118	49.05	0.747	20
Surr: 4-Bromofluorobenzene	49.26	1.0	50	0	98.5	85 - 114	50.06	1.61	20
Surr: Dibromofluoromethane	48.71	1.0	50	0	97.4	80 - 119	48.64	0.154	20
Surr: Toluene-d8	56.36	1.0	50	0	113	89 - 112	55.21	2.06	20 S



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.

Project: LHAAP-58

WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437473 (0)

Instrument: VOA9

Method: VOLATILES ORGANICS BY METHOD
8260C

The following samples were analyzed in this batch:

HS23060280-01	HS23060280-02	HS23060280-03	HS23060280-04
HS23060280-05	HS23060280-06	HS23060280-07	HS23060280-08



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MBLK	Sample ID: VBLKW-230609	Units: ug/L		Analysis Date: 09-Jun-2023 12:34					
Client ID:	Run ID: VOA9_437641	SeqNo: 7357555		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	0.50	1.0							U
1,1,1-Trichloroethane	0.50	1.0							U
1,1,2,2-Tetrachloroethane	0.50	1.0							U
1,1,2-Trichloroethane	0.50	1.0							U
1,1-Dichloroethane	0.50	1.0							U
1,1-Dichloroethene	0.50	1.0							U
1,1-Dichloropropene	0.50	1.0							U
1,2,3-Trichlorobenzene	0.50	1.0							U
1,2,3-Trichloropropane	0.50	1.0							U
1,2,4-Trichlorobenzene	0.50	1.0							U
1,2,4-Trimethylbenzene	0.50	1.0							U
1,2-Dibromo-3-chloropropane	0.50	1.0							U
1,2-Dibromoethane	0.50	1.0							U
1,2-Dichlorobenzene	0.50	1.0							U
1,2-Dichloroethane	0.50	1.0							U
1,2-Dichloropropane	0.50	1.0							U
1,3,5-Trimethylbenzene	0.50	1.0							U
1,3-Dichlorobenzene	0.50	1.0							U
1,3-Dichloropropane	0.50	1.0							U
1,4-Dichlorobenzene	0.50	1.0							U
2,2-Dichloropropane	0.50	1.0							U
2-Butanone	0.50	2.0							U
2-Chlorotoluene	0.50	1.0							U
2-Hexanone	0.50	2.0							U
4-Chlorotoluene	0.50	1.0							U
4-Isopropyltoluene	0.50	1.0							U
4-Methyl-2-pentanone	0.50	2.0							U
Acetone	0.50	2.0							U
Benzene	0.50	1.0							U
Bromobenzene	0.50	1.0							U
Bromochloromethane	0.50	1.0							U
Bromodichloromethane	0.50	1.0							U
Bromoform	0.50	1.0							U
Bromomethane	0.50	1.0							U



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MBLK	Sample ID: VBLKW-230609	Units: ug/L		Analysis Date: 09-Jun-2023 12:34					
Client ID:	Run ID: VOA9_437641	SeqNo: 7357555		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	0.50	2.0							U
Carbon tetrachloride	0.50	1.0							U
Chlorobenzene	0.50	1.0							U
Chloroethane	0.50	1.0							U
Chloroform	0.50	1.0							U
Chloromethane	0.50	1.0							U
cis-1,2-Dichloroethene	0.50	1.0							U
cis-1,3-Dichloropropene	0.50	1.0							U
Dibromochloromethane	0.50	1.0							U
Dibromomethane	0.50	1.0							U
Dichlorodifluoromethane	0.50	1.0							U
Ethylbenzene	0.50	1.0							U
Hexachlorobutadiene	0.50	1.0							U
Isopropylbenzene	0.50	1.0							U
m,p-Xylene	1.0	2.0							U
Methylene chloride	0.50	2.0							U
Naphthalene	0.50	1.0							U
n-Butylbenzene	0.50	1.0							U
n-Propylbenzene	0.50	1.0							U
o-Xylene	0.50	1.0							U
sec-Butylbenzene	0.50	1.0							U
Styrene	0.50	1.0							U
tert-Butylbenzene	0.50	1.0							U
Tetrachloroethene	0.50	1.0							U
Toluene	0.50	1.0							U
trans-1,2-Dichloroethene	0.50	1.0							U
trans-1,3-Dichloropropene	0.50	1.0							U
Trichloroethene	0.50	1.0							U
Trichlorofluoromethane	0.50	1.0							U
Vinyl chloride	0.50	1.0							U
Surr: 1,2-Dichloroethane-d4	53.86	1.0	50	0	108	81 - 118			
Surr: 4-Bromofluorobenzene	47.21	1.0	50	0	94.4	85 - 114			
Surr: Dibromofluoromethane	48.59	1.0	50	0	97.2	80 - 119			
Surr: Toluene-d8	54.3	1.0	50	0	109	89 - 112			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C						
LCS		Sample ID: VLCSW-230609		Units: ug/L		Analysis Date: 09-Jun-2023 11:49				
Client ID:		Run ID: VOA9_437641		SeqNo: 7357554		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19	1.0	20	0	95.0	78 - 124				
1,1,1-Trichloroethane	17.36	1.0	20	0	86.8	74 - 131				
1,1,2,2-Tetrachloroethane	18.66	1.0	20	0	93.3	71 - 121				
1,1,2-Trichloroethane	18.65	1.0	20	0	93.3	80 - 119				
1,1-Dichloroethane	16.29	1.0	20	0	81.4	77 - 125				
1,1-Dichloroethene	16.74	1.0	20	0	83.7	71 - 131				
1,1-Dichloropropene	18.14	1.0	20	0	90.7	78 - 125				
1,2,3-Trichlorobenzene	18.18	1.0	20	0	90.9	69 - 129				
1,2,3-Trichloropropane	18.67	1.0	20	0	93.4	73 - 122				
1,2,4-Trichlorobenzene	18.42	1.0	20	0	92.1	69 - 130				
1,2,4-Trimethylbenzene	18.52	1.0	20	0	92.6	76 - 124				
1,2-Dibromo-3-chloropropane	17.87	1.0	20	0	89.3	62 - 128				
1,2-Dibromoethane	18.59	1.0	20	0	93.0	77 - 121				
1,2-Dichlorobenzene	18.3	1.0	20	0	91.5	80 - 119				
1,2-Dichloroethane	19.02	1.0	20	0	95.1	73 - 128				
1,2-Dichloropropane	19.13	1.0	20	0	95.7	78 - 122				
1,3,5-Trimethylbenzene	18.29	1.0	20	0	91.5	75 - 124				
1,3-Dichlorobenzene	18.19	1.0	20	0	91.0	80 - 119				
1,3-Dichloropropane	18.86	1.0	20	0	94.3	80 - 119				
1,4-Dichlorobenzene	18.11	1.0	20	0	90.5	79 - 118				
2,2-Dichloropropane	18.48	1.0	20	0	92.4	60 - 139				
2-Butanone	36.01	2.0	40	0	90.0	56 - 143				
2-Chlorotoluene	18.98	1.0	20	0	94.9	79 - 122				
2-Hexanone	38.13	2.0	40	0	95.3	57 - 139				
4-Chlorotoluene	18.94	1.0	20	0	94.7	78 - 122				
4-Isopropyltoluene	18.39	1.0	20	0	92.0	77 - 127				
4-Methyl-2-pentanone	39.73	2.0	40	0	99.3	67 - 130				
Acetone	41.88	2.0	40	0	105	39 - 160				
Benzene	18.68	1.0	20	0	93.4	79 - 120				
Bromobenzene	18.57	1.0	20	0	92.9	80 - 120				
Bromochloromethane	16.41	1.0	20	0	82.0	78 - 123				
Bromodichloromethane	18.43	1.0	20	0	92.1	79 - 125				
Bromoform	18.32	1.0	20	0	91.6	66 - 130				
Bromomethane	21.06	1.0	20	0	105	53 - 141				



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
LCS		Sample ID: VLCSW-230609		Units: ug/L		Analysis Date: 09-Jun-2023 11:49			
Client ID:		Run ID: VOA9_437641		SeqNo: 7357554		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	32.71	2.0	40	0	81.8	64 - 133			
Carbon tetrachloride	17.2	1.0	20	0	86.0	72 - 136			
Chlorobenzene	18.73	1.0	20	0	93.6	82 - 118			
Chloroethane	16.08	1.0	20	0	80.4	60 - 138			
Chloroform	17.22	1.0	20	0	86.1	79 - 124			
Chloromethane	16.13	1.0	20	0	80.6	50 - 139			
cis-1,2-Dichloroethene	17.28	1.0	20	0	86.4	78 - 123			
cis-1,3-Dichloropropene	17.67	1.0	20	0	88.4	75 - 124			
Dibromochloromethane	19.62	1.0	20	0	98.1	74 - 126			
Dibromomethane	18.4	1.0	20	0	92.0	79 - 123			
Dichlorodifluoromethane	15.36	1.0	20	0	76.8	32 - 152			
Ethylbenzene	19.36	1.0	20	0	96.8	79 - 121			
Hexachlorobutadiene	19.81	1.0	20	0	99.0	66 - 134			
Isopropylbenzene	18.7	1.0	20	0	93.5	72 - 131			
m,p-Xylene	39.23	2.0	40	0	98.1	80 - 121			
Methylene chloride	17.45	2.0	20	0	87.3	74 - 124			
Naphthalene	19.05	1.0	20	0	95.2	61 - 128			
n-Butylbenzene	18.31	1.0	20	0	91.6	75 - 128			
n-Propylbenzene	18.03	1.0	20	0	90.2	76 - 126			
o-Xylene	19.37	1.0	20	0	96.9	78 - 122			
sec-Butylbenzene	17.7	1.0	20	0	88.5	77 - 126			
Styrene	20.47	1.0	20	0	102	78 - 123			
tert-Butylbenzene	17.79	1.0	20	0	89.0	78 - 124			
Tetrachloroethene	18.34	1.0	20	0	91.7	74 - 129			
Toluene	18.92	1.0	20	0	94.6	80 - 121			
trans-1,2-Dichloroethene	16.62	1.0	20	0	83.1	75 - 124			
trans-1,3-Dichloropropene	17.42	1.0	20	0	87.1	73 - 127			
Trichloroethene	18.3	1.0	20	0	91.5	79 - 123			
Trichlorofluoromethane	17.75	1.0	20	0	88.8	65 - 141			
Vinyl chloride	16.41	1.0	20	0	82.1	58 - 137			
Surr: 1,2-Dichloroethane-d4	49.99	1.0	50	0	100.0	81 - 118			
Surr: 4-Bromofluorobenzene	52.51	1.0	50	0	105	85 - 114			
Surr: Dibromofluoromethane	50.18	1.0	50	0	100	80 - 119			
Surr: Toluene-d8	50.83	1.0	50	0	102	89 - 112			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MS		Sample ID: HS23060280-09MS		Units: ug/L		Analysis Date: 09-Jun-2023 14:48			
Client ID: 35AWW12_060523_a		Run ID: VOA9_437641		SeqNo: 7357560		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	21.26	1.0	20	0	106	78 - 124			
1,1,1-Trichloroethane	21.62	1.0	20	0	108	74 - 131			
1,1,2,2-Tetrachloroethane	18.76	1.0	20	0	93.8	71 - 121			
1,1,2-Trichloroethane	20.4	1.0	20	0	102	80 - 119			
1,1-Dichloroethane	20.26	1.0	20	0	101	77 - 125			
1,1-Dichloroethene	22.2	1.0	20	0	111	71 - 131			
1,1-Dichloropropene	23.37	1.0	20	0	117	78 - 125			
1,2,3-Trichlorobenzene	19.23	1.0	20	0	96.2	69 - 129			
1,2,3-Trichloropropane	18.54	1.0	20	0	92.7	73 - 122			
1,2,4-Trichlorobenzene	19.79	1.0	20	0	98.9	69 - 130			
1,2,4-Trimethylbenzene	21.05	1.0	20	0	105	76 - 124			
1,2-Dibromo-3-chloropropane	18.26	1.0	20	0	91.3	62 - 128			
1,2-Dibromoethane	19.85	1.0	20	0	99.2	77 - 121			
1,2-Dichlorobenzene	20.37	1.0	20	0	102	80 - 119			
1,2-Dichloroethane	21.7	1.0	20	0	109	73 - 128			
1,2-Dichloropropane	20.09	1.0	20	0	100	78 - 122			
1,3,5-Trimethylbenzene	21.75	1.0	20	0	109	75 - 124			
1,3-Dichlorobenzene	20.51	1.0	20	0	103	80 - 119			
1,3-Dichloropropane	20.75	1.0	20	0	104	80 - 119			
1,4-Dichlorobenzene	20.29	1.0	20	0	101	79 - 118			
2,2-Dichloropropane	22.86	1.0	20	0	114	60 - 139			
2-Butanone	33.81	2.0	40	0	84.5	56 - 143			
2-Chlorotoluene	21.91	1.0	20	0	110	79 - 122			
2-Hexanone	36.1	2.0	40	0	90.2	57 - 139			
4-Chlorotoluene	22.03	1.0	20	0	110	78 - 122			
4-Isopropyltoluene	22.41	1.0	20	0	112	77 - 127			
4-Methyl-2-pentanone	38.8	2.0	40	0	97.0	67 - 130			
Acetone	32.61	2.0	40	0	81.5	39 - 160			
Benzene	20.56	1.0	20	0	103	79 - 120			
Bromobenzene	20.16	1.0	20	0	101	80 - 120			
Bromochloromethane	18.01	1.0	20	0	90.0	78 - 123			
Bromodichloromethane	20.95	1.0	20	0	105	79 - 125			
Bromoform	19.68	1.0	20	0	98.4	66 - 130			
Bromomethane	23	1.0	20	0	115	53 - 141			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MS		Sample ID: HS23060280-09MS		Units: ug/L		Analysis Date: 09-Jun-2023 14:48			
Client ID: 35AWW12_060523_a		Run ID: VOA9_437641		SeqNo: 7357560		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	44.28	2.0	40	0	111	64 - 133			
Carbon tetrachloride	23.88	1.0	20	0	119	72 - 136			
Chlorobenzene	21.5	1.0	20	0	108	82 - 118			
Chloroethane	19.71	1.0	20	0	98.6	60 - 138			
Chloroform	19.72	1.0	20	0	98.6	79 - 124			
Chloromethane	19.12	1.0	20	0	95.6	50 - 139			
cis-1,2-Dichloroethene	21.05	1.0	20	0	105	78 - 123			
cis-1,3-Dichloropropene	19.68	1.0	20	0	98.4	75 - 124			
Dibromochloromethane	20.27	1.0	20	0	101	74 - 126			
Dibromomethane	20.64	1.0	20	0	103	79 - 123			
Dichlorodifluoromethane	14.39	1.0	20	0	71.9	32 - 152			
Ethylbenzene	22.87	1.0	20	0	114	79 - 121			
Hexachlorobutadiene	23.16	1.0	20	0	116	66 - 134			
Isopropylbenzene	24.43	1.0	20	0	122	72 - 131			
m,p-Xylene	46.56	2.0	40	0	116	80 - 121			
Methylene chloride	21.14	2.0	20	0	106	74 - 124			
Naphthalene	19.07	1.0	20	0	95.3	61 - 128			
n-Butylbenzene	23.29	1.0	20	0	116	75 - 128			
n-Propylbenzene	23.49	1.0	20	0	117	76 - 126			
o-Xylene	22.59	1.0	20	0	113	78 - 122			
sec-Butylbenzene	23.6	1.0	20	0	118	77 - 126			
Styrene	22.39	1.0	20	0	112	78 - 123			
tert-Butylbenzene	23.47	1.0	20	0	117	78 - 124			
Tetrachloroethene	24.7	1.0	20	0	124	74 - 129			
Toluene	22.38	1.0	20	0	112	80 - 121			
trans-1,2-Dichloroethene	20.81	1.0	20	0	104	75 - 124			
trans-1,3-Dichloropropene	19.13	1.0	20	0	95.6	73 - 127			
Trichloroethene	20.97	1.0	20	0	105	79 - 123			
Trichlorofluoromethane	24.47	1.0	20	0	122	65 - 141			
Vinyl chloride	19.3	1.0	20	0	96.5	58 - 137			
Surr: 1,2-Dichloroethane-d4	54.64	1.0	50	0	109	81 - 118			
Surr: 4-Bromofluorobenzene	49.77	1.0	50	0	99.5	85 - 114			
Surr: Dibromofluoromethane	49.97	1.0	50	0	99.9	80 - 119			
Surr: Toluene-d8	55.69	1.0	50	0	111	89 - 112			



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MSD		Sample ID: HS23060280-09MSD		Units: ug/L		Analysis Date: 09-Jun-2023 15:11			
Client ID: 35AWW12_060523_a		Run ID: VOA9_437641		SeqNo: 7357561		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	21.27	1.0	20	0	106	78 - 124	21.26	0.016	20
1,1,1-Trichloroethane	19.86	1.0	20	0	99.3	74 - 131	21.62	8.48	20
1,1,2,2-Tetrachloroethane	19.2	1.0	20	0	96.0	71 - 121	18.76	2.31	20
1,1,2-Trichloroethane	20.03	1.0	20	0	100	80 - 119	20.4	1.84	20
1,1-Dichloroethane	18.13	1.0	20	0	90.6	77 - 125	20.26	11.1	20
1,1-Dichloroethene	18.88	1.0	20	0	94.4	71 - 131	22.2	16.2	20
1,1-Dichloropropene	22.42	1.0	20	0	112	78 - 125	23.37	4.17	20
1,2,3-Trichlorobenzene	19.28	1.0	20	0	96.4	69 - 129	19.23	0.225	20
1,2,3-Trichloropropane	18.89	1.0	20	0	94.4	73 - 122	18.54	1.84	20
1,2,4-Trichlorobenzene	19.65	1.0	20	0	98.3	69 - 130	19.79	0.68	20
1,2,4-Trimethylbenzene	21.71	1.0	20	0	109	76 - 124	21.05	3.09	20
1,2-Dibromo-3-chloropropane	18	1.0	20	0	90.0	62 - 128	18.26	1.43	20
1,2-Dibromoethane	19.6	1.0	20	0	98.0	77 - 121	19.85	1.26	20
1,2-Dichlorobenzene	19.97	1.0	20	0	99.9	80 - 119	20.37	1.94	20
1,2-Dichloroethane	20	1.0	20	0	100.0	73 - 128	21.7	8.16	20
1,2-Dichloropropane	20.12	1.0	20	0	101	78 - 122	20.09	0.189	20
1,3,5-Trimethylbenzene	22.09	1.0	20	0	110	75 - 124	21.75	1.57	20
1,3-Dichlorobenzene	20.57	1.0	20	0	103	80 - 119	20.51	0.303	20
1,3-Dichloropropane	20.32	1.0	20	0	102	80 - 119	20.75	2.11	20
1,4-Dichlorobenzene	20.21	1.0	20	0	101	79 - 118	20.29	0.407	20
2,2-Dichloropropane	19.98	1.0	20	0	99.9	60 - 139	22.86	13.4	20
2-Butanone	31.38	2.0	40	0	78.4	56 - 143	33.81	7.47	20
2-Chlorotoluene	21.74	1.0	20	0	109	79 - 122	21.91	0.8	20
2-Hexanone	36.52	2.0	40	0	91.3	57 - 139	36.1	1.16	20
4-Chlorotoluene	21.98	1.0	20	0	110	78 - 122	22.03	0.237	20
4-Isopropyltoluene	22.65	1.0	20	0	113	77 - 127	22.41	1.06	20
4-Methyl-2-pentanone	39.04	2.0	40	0	97.6	67 - 130	38.8	0.621	20
Acetone	31.56	2.0	40	0	78.9	39 - 160	32.61	3.3	20
Benzene	20.58	1.0	20	0	103	79 - 120	20.56	0.141	20
Bromobenzene	20.08	1.0	20	0	100	80 - 120	20.16	0.376	20
Bromochloromethane	17.84	1.0	20	0	89.2	78 - 123	18.01	0.935	20
Bromodichloromethane	19.57	1.0	20	0	97.9	79 - 125	20.95	6.81	20
Bromoform	19.01	1.0	20	0	95.0	66 - 130	19.68	3.48	20
Bromomethane	20.24	1.0	20	0	101	53 - 141	23	12.8	20



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)		Instrument: VOA9		Method: VOLATILES ORGANICS BY METHOD 8260C					
MSD		Sample ID: HS23060280-09MSD		Units: ug/L		Analysis Date: 09-Jun-2023 15:11			
Client ID: 35AWW12_060523_a		Run ID: VOA9_437641		SeqNo: 7357561		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	38.45	2.0	40	0	96.1	64 - 133	44.28	14.1	20
Carbon tetrachloride	22.66	1.0	20	0	113	72 - 136	23.88	5.21	20
Chlorobenzene	20.87	1.0	20	0	104	82 - 118	21.5	2.99	20
Chloroethane	17.93	1.0	20	0	89.7	60 - 138	19.71	9.45	20
Chloroform	18.4	1.0	20	0	92.0	79 - 124	19.72	6.9	20
Chloromethane	15.8	1.0	20	0	79.0	50 - 139	19.12	19	20
cis-1,2-Dichloroethene	17.25	1.0	20	0	86.2	78 - 123	21.05	19.8	20
cis-1,3-Dichloropropene	18.49	1.0	20	0	92.5	75 - 124	19.68	6.23	20
Dibromochloromethane	20.46	1.0	20	0	102	74 - 126	20.27	0.945	20
Dibromomethane	19.64	1.0	20	0	98.2	79 - 123	20.64	4.96	20
Dichlorodifluoromethane	12.64	1.0	20	0	63.2	32 - 152	14.39	12.9	20
Ethylbenzene	22.19	1.0	20	0	111	79 - 121	22.87	3.02	20
Hexachlorobutadiene	21.83	1.0	20	0	109	66 - 134	23.16	5.88	20
Isopropylbenzene	23.76	1.0	20	0	119	72 - 131	24.43	2.78	20
m,p-Xylene	46.16	2.0	40	0	115	80 - 121	46.56	0.859	20
Methylene chloride	17.13	2.0	20	0	85.7	74 - 124	21.14	20.9	20 R
Naphthalene	20.26	1.0	20	0	101	61 - 128	19.07	6.05	20
n-Butylbenzene	22.88	1.0	20	0	114	75 - 128	23.29	1.78	20
n-Propylbenzene	23.33	1.0	20	0	117	76 - 126	23.49	0.715	20
o-Xylene	22.07	1.0	20	0	110	78 - 122	22.59	2.3	20
sec-Butylbenzene	23.47	1.0	20	0	117	77 - 126	23.6	0.554	20
Styrene	22.41	1.0	20	0	112	78 - 123	22.39	0.0985	20
tert-Butylbenzene	23.15	1.0	20	0	116	78 - 124	23.47	1.36	20
Tetrachloroethene	24.31	1.0	20	0	122	74 - 129	24.7	1.6	20
Toluene	22.02	1.0	20	0	110	80 - 121	22.38	1.62	20
trans-1,2-Dichloroethene	19.09	1.0	20	0	95.5	75 - 124	20.81	8.6	20
trans-1,3-Dichloropropene	17.47	1.0	20	0	87.3	73 - 127	19.13	9.08	20
Trichloroethene	20.94	1.0	20	0	105	79 - 123	20.97	0.185	20
Trichlorofluoromethane	21.59	1.0	20	0	108	65 - 141	24.47	12.5	20
Vinyl chloride	17.42	1.0	20	0	87.1	58 - 137	19.3	10.3	20
Surr: 1,2-Dichloroethane-d4	49.18	1.0	50	0	98.4	81 - 118	54.64	10.5	20
Surr: 4-Bromofluorobenzene	49.41	1.0	50	0	98.8	85 - 114	49.77	0.73	20
Surr: Dibromofluoromethane	48.63	1.0	50	0	97.3	80 - 119	49.97	2.72	20
Surr: Toluene-d8	55.36	1.0	50	0	111	89 - 112	55.69	0.579	20



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.

Project: LHAAP-58

WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437641 (0)

Instrument: VOA9

Method: VOLATILES ORGANICS BY METHOD
8260C

The following samples were analyzed in this batch:

HS23060280-02

HS23060280-09

HS23060280-10



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437236 (0)		Instrument: ICS-Integrion		Method: ANIONS BY SW9056A					
MBLK	Sample ID: MBLK	Units: mg/L		Analysis Date: 06-Jun-2023 19:18					
Client ID:	Run ID: ICS-Integrion_437236		SeqNo: 7346299		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	0.250	0.500							U
Nitrogen, Nitrate (As N)	0.0500	0.100							U
Sulfate	0.250	0.500							U

LCS	Sample ID: LCS	Units: mg/L		Analysis Date: 06-Jun-2023 19:24					
Client ID:	Run ID: ICS-Integrion_437236		SeqNo: 7346300		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	20.81	0.500	20	0	104	80 - 120			
Nitrogen, Nitrate (As N)	4.272	0.100	4	0	107	80 - 120			
Sulfate	21.07	0.500	20	0	105	80 - 120			

MS	Sample ID: HS23051918-01MS	Units: mg/L		Analysis Date: 06-Jun-2023 21:49					
Client ID:	Run ID: ICS-Integrion_437236		SeqNo: 7346320		PrepDate:		DF: 200		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	7856	100	2000	6042	90.7	80 - 120			
Nitrogen, Nitrate (As N)	431.2	20.0	400	23.48	102	80 - 120			
Sulfate	2309	100	2000	274.6	102	80 - 120			

MSD	Sample ID: HS23051918-01MSD	Units: mg/L		Analysis Date: 06-Jun-2023 21:55					
Client ID:	Run ID: ICS-Integrion_437236		SeqNo: 7346321		PrepDate:		DF: 200		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	7864	100	2000	6042	91.1	80 - 120	7856	0.104	20
Nitrogen, Nitrate (As N)	431.5	20.0	400	23.48	102	80 - 120	431.2	0.0881	20
Sulfate	2312	100	2000	274.6	102	80 - 120	2309	0.113	20

The following samples were analyzed in this batch: HS23060280-01 HS23060280-02 HS23060280-03 HS23060280-04
 HS23060280-05 HS23060280-06



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437619 (0)		Instrument: TOC_04		Method: TOTAL ORGANIC CARBON BY E415.1						
MBLK	Sample ID: MBLK-06102023	Units: mg/L		Analysis Date: 10-Jun-2023 11:16						
Client ID:	Run ID: TOC_04_437619	SeqNo: 7357038		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U
LCS	Sample ID: LCS-06102023	Units: mg/L		Analysis Date: 10-Jun-2023 11:30						
Client ID:	Run ID: TOC_04_437619	SeqNo: 7357039		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.24	1.00	10	0	102	85 - 115				
LCSD	Sample ID: LCSD-06102023	Units: mg/L		Analysis Date: 10-Jun-2023 11:43						
Client ID:	Run ID: TOC_04_437619	SeqNo: 7357040		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.4	1.00	10	0	104	85 - 115	10.24	1.55	20	
MS	Sample ID: HS23060259-03MS	Units: mg/L		Analysis Date: 10-Jun-2023 14:29						
Client ID:	Run ID: TOC_04_437619	SeqNo: 7357052		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.52	1.00	10	15.28	102	80 - 120				
The following samples were analyzed in this batch:										
HS23060280-01			HS23060280-02			HS23060280-03			HS23060280-04	



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

QC BATCH REPORT

Batch ID: R437997 (0)		Instrument: TOC_05		Method: TOTAL ORGANIC CARBON BY E415.1						
MBLK	Sample ID: MBLK-06152023	Units: mg/L		Analysis Date: 16-Jun-2023 09:38						
Client ID:	Run ID: TOC_05_437997	SeqNo: 7365942		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U
LCS	Sample ID: LCS-06152023	Units: mg/L		Analysis Date: 16-Jun-2023 09:54						
Client ID:	Run ID: TOC_05_437997	SeqNo: 7365943		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.17	1.00	10	0	112	85 - 115				
LCSD	Sample ID: LCSD-06152023	Units: mg/L		Analysis Date: 16-Jun-2023 10:10						
Client ID:	Run ID: TOC_05_437997	SeqNo: 7365944		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.9	1.00	10	0	109	85 - 115	11.17	2.45	20	
MS	Sample ID: HS23060692-01MS	Units: mg/L		Analysis Date: 16-Jun-2023 10:42						
Client ID:	Run ID: TOC_05_437997	SeqNo: 7365946		PrepDate:		DF: 50				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1008	50.0	500	497.6	102	80 - 120				
The following samples were analyzed in this batch:										
			HS23060280-05 HS23060280-06							



ALS Houston, US

Date: 21-Jun-23

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS23060280

**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 Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter



CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-37	30-Jun-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 21-Jun-23

Sample Receipt Checklist

Work Order ID: HS23060280

Date/Time Received: 06-Jun-2023 09:30

Client Name: Bhate Environmental

Received by: Paresh M. Giga

Completed By: /S/ Belinda Gomez

06-Jun-2023 16:23

Reviewed by: /S/ Dane J. Wacasey

07-Jun-2023 16:37

eSignature

Date/Time

eSignature

Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐No ☐Not Present ☒

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

VOA/TX1005/TX1006 Solids in hermetically sealed vials?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

1 Page(s)

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Samplers name present on COC?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

1.9UC/1.8C

ir31

Cooler(s)/Kit(s):

46501

Date/Time sample(s) sent to storage:

06/06/2023

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:





Page: _____ of _____

Project/Phase

No: JYPCIBH.0001

1608 13th Avenue South, Suite 300

Birmingham Alabama 35205

Chain of Custody and Analytical Request

COC Number(1):

LIMS Number:

Facility/Base I.D.: LHAAP

Sample Analysis Requested (2)

Quantity of Samples (3)

Project/Site Name: LHAAP / Site 58

Client Name:

Collected by: Scott Beesinger

Field Sample ID (20 Characters Max)	Date Collected (dd-mm-yyyy)	Time Collected (Military) (hh:mm)	Sample Depth (beginning - ending)	SA Code (1)	Sample Number (2)	Sample Matrix (3)	Number of Containers	VOC	MEE	TOC	Carbon Dioxide	Anions	Arsenic	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Coiler ID
35AHWW19-060523	05-Jun-2023	0655	-	N		WG	11	X	X	X	X	X					
35AHWW20-060523	05-Jun-2023	0745	-	N		WG	12	X	X	X	X	X	X				
2H5AHWW07-060523	05-Jun-2023	0830	-	N		WG	11	X	X	X	X	X					
35AHWW06-060523	05-Jun-2023	0915	-	N		WG	11	X	X	X	X	X					
35AHWW23-060523	05-Jun-2023	1005	-	N		WG	11	X	X	X	X	X					
35AHWW11-060523	05-Jun-2023	1055	-	N		WG	11	X	X	X	X	X					
35AHWW22-060523	05-Jun-2023	1145	-	N		WG	3	X									
35AHWW12-060523	05-Jun-2023	1225	-	N		WG	3	X									
35AHWW12-060523-a	05-Jun-2023	1225	-	FD		WG	3	X									
Trip BLANK	05-Jun-2023		-	TB		W	2	X									

HS23060280

Bhate Environmental Associates, Inc.

LHAAP-58



COMMENTS:

46501 1.90
 HSCIF-UP STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed) Date Time
 Scott Beesinger 6/5/23 1330
 2. _____
 3. _____

Received by (Signed) Date Time
 [Signature] 6/6/23 0930
 2. _____
 3. _____

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped _____

No.:

Method of Shipment: _____

Fed _____ Ex _____ Airbill _____

Number: _____

Analytical Lab: ALS 16450 Stevedore Rd, Suite 210 Houston, TX 77059 (281) 538-5666

ATTN: Dana Weasby 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



46501 JUN 06 2023



46501

46501

CRISIN ID:SGRA (803) 930-6193
SCOTT BEESINER
B/NATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB2C2

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 31MAY23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3704
DIMS: 26x14x14 IN

10 SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099

(281) 530-5668

REF: LHAAP-58-B0 93349-DW

RNA: III IIII III



FedEx
Express



PK# 6230 3000 5436

.. TUE - 06 JUN AA
PRIORITY OVERNIGHT

XA SGRA

77099
TX-US
IAH





ANALYTICAL REPORT

PREPARED FOR

Attn: Dane Wacasey
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston, Texas 77099

Generated 6/15/2023 1:53:46 AM

JOB DESCRIPTION

HS23060280

JOB NUMBER

410-129509-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
6/15/2023 1:53:46 AM

Authorized for release by
Kelly Bauer, Project Manager
Kelly.Bauer@et.eurofinsus.com
(717)556-7262

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Kelly Bauer



Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Detection Summary	7
Client Sample Results	8
QC Sample Results	9
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	18

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Definitions/Glossary

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Case Narrative

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Job ID: 410-129509-1**Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC****Narrative****Job Narrative
410-129509-1****Receipt**

The samples were received on 6/7/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Client Sample ID: HS23060280-01

Lab Sample ID: 410-129509-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	92000		12000	2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: HS23060280-02

Lab Sample ID: 410-129509-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	200000	M	12000	2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: HS23060280-03

Lab Sample ID: 410-129509-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	130000		12000	2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: HS23060280-04

Lab Sample ID: 410-129509-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	110000		12000	2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: HS23060280-05

Lab Sample ID: 410-129509-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	220000	M	12000	2600	ug/L	1		RSK-175	Total/NA

Client Sample ID: HS23060280-06

Lab Sample ID: 410-129509-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	250000	M	12000	2600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC



Client Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Client Sample ID: HS23060280-01

Lab Sample ID: 410-129509-1

Date Collected: 06/05/23 06:55

Matrix: Water

Date Received: 06/07/23 09:55

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	92000		12000	2600	ug/L		06/14/23 09:10	06/14/23 11:18	1

Client Sample ID: HS23060280-02

Lab Sample ID: 410-129509-2

Date Collected: 06/05/23 07:45

Matrix: Water

Date Received: 06/07/23 09:55

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	200000	M	12000	2600	ug/L		06/14/23 09:10	06/14/23 11:26	1

Client Sample ID: HS23060280-03

Lab Sample ID: 410-129509-3

Date Collected: 06/05/23 08:30

Matrix: Water

Date Received: 06/07/23 09:55

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	130000		12000	2600	ug/L		06/14/23 09:10	06/14/23 11:34	1

Client Sample ID: HS23060280-04

Lab Sample ID: 410-129509-4

Date Collected: 06/05/23 09:15

Matrix: Water

Date Received: 06/07/23 09:55

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	110000		12000	2600	ug/L		06/14/23 09:10	06/14/23 11:42	1

Client Sample ID: HS23060280-05

Lab Sample ID: 410-129509-5

Date Collected: 06/05/23 10:05

Matrix: Water

Date Received: 06/07/23 09:55

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	220000	M	12000	2600	ug/L		06/14/23 09:10	06/14/23 11:50	1

Client Sample ID: HS23060280-06

Lab Sample ID: 410-129509-6

Date Collected: 06/05/23 10:55

Matrix: Water

Date Received: 06/07/23 09:55

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	250000	M	12000	2600	ug/L		06/14/23 09:10	06/14/23 11:58	1



QC Sample Results

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-386428/1-A

Matrix: Water

Analysis Batch: 386376

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 386428

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	2600	U	12000	2600	ug/L		06/14/23 09:10	06/14/23 09:16	1

Lab Sample ID: LCS 410-386428/2-A

Matrix: Water

Analysis Batch: 386376

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 386428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon dioxide	35800	32900		ug/L		92	80 - 122

Lab Sample ID: LCSD 410-386428/3-A

Matrix: Water

Analysis Batch: 386376

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 386428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide	35800	34100		ug/L		95	80 - 122	4	20



QC Association Summary

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

GC VOA

Analysis Batch: 386376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129509-1	HS23060280-01	Total/NA	Water	RSK-175	386428
410-129509-2	HS23060280-02	Total/NA	Water	RSK-175	386428
410-129509-3	HS23060280-03	Total/NA	Water	RSK-175	386428
410-129509-4	HS23060280-04	Total/NA	Water	RSK-175	386428
410-129509-5	HS23060280-05	Total/NA	Water	RSK-175	386428
410-129509-6	HS23060280-06	Total/NA	Water	RSK-175	386428
MB 410-386428/1-A	Method Blank	Total/NA	Water	RSK-175	386428
LCS 410-386428/2-A	Lab Control Sample	Total/NA	Water	RSK-175	386428
LCSD 410-386428/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	386428

Prep Batch: 386428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129509-1	HS23060280-01	Total/NA	Water	RSK-175	
410-129509-2	HS23060280-02	Total/NA	Water	RSK-175	
410-129509-3	HS23060280-03	Total/NA	Water	RSK-175	
410-129509-4	HS23060280-04	Total/NA	Water	RSK-175	
410-129509-5	HS23060280-05	Total/NA	Water	RSK-175	
410-129509-6	HS23060280-06	Total/NA	Water	RSK-175	
MB 410-386428/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-386428/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-386428/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	



Lab Chronicle

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Client Sample ID: HS23060280-01

Lab Sample ID: 410-129509-1

Date Collected: 06/05/23 06:55

Matrix: Water

Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			386428	HQR6	ELLE	06/14/23 09:10
Total/NA	Analysis	RSK-175		1	386376	LXF2	ELLE	06/14/23 11:18

Client Sample ID: HS23060280-02

Lab Sample ID: 410-129509-2

Date Collected: 06/05/23 07:45

Matrix: Water

Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			386428	HQR6	ELLE	06/14/23 09:10
Total/NA	Analysis	RSK-175		1	386376	LXF2	ELLE	06/14/23 11:26

Client Sample ID: HS23060280-03

Lab Sample ID: 410-129509-3

Date Collected: 06/05/23 08:30

Matrix: Water

Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			386428	HQR6	ELLE	06/14/23 09:10
Total/NA	Analysis	RSK-175		1	386376	LXF2	ELLE	06/14/23 11:34

Client Sample ID: HS23060280-04

Lab Sample ID: 410-129509-4

Date Collected: 06/05/23 09:15

Matrix: Water

Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			386428	HQR6	ELLE	06/14/23 09:10
Total/NA	Analysis	RSK-175		1	386376	LXF2	ELLE	06/14/23 11:42

Client Sample ID: HS23060280-05

Lab Sample ID: 410-129509-5

Date Collected: 06/05/23 10:05

Matrix: Water

Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			386428	HQR6	ELLE	06/14/23 09:10
Total/NA	Analysis	RSK-175		1	386376	LXF2	ELLE	06/14/23 11:50

Client Sample ID: HS23060280-06

Lab Sample ID: 410-129509-6

Date Collected: 06/05/23 10:55

Matrix: Water

Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			386428	HQR6	ELLE	06/14/23 09:10
Total/NA	Analysis	RSK-175		1	386376	LXF2	ELLE	06/14/23 11:58

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Accreditation/Certification Summary

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24

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Method Summary

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175,
Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Sample Summary

Client: ALS Group USA, Corp
Project/Site: HS23060280

Job ID: 410-129509-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-129509-1	HS23060280-01	Water	06/05/23 06:55	06/07/23 09:55
410-129509-2	HS23060280-02	Water	06/05/23 07:45	06/07/23 09:55
410-129509-3	HS23060280-03	Water	06/05/23 08:30	06/07/23 09:55
410-129509-4	HS23060280-04	Water	06/05/23 09:15	06/07/23 09:55
410-129509-5	HS23060280-05	Water	06/05/23 10:05	06/07/23 09:55
410-129509-6	HS23060280-06	Water	06/05/23 10:55	06/07/23 09:55

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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: 21952

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Env't Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23060280
TSR: Holly Tignac

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS23060280-01	35AWW19_060523	Water	05 Jun 2023 06:55
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			20 Jun 2023
2.	HS23060280-02	35AWW20_060523	Water	05 Jun 2023 07:45
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			20 Jun 2023
3.	HS23060280-03	35AWW07_060523	Water	05 Jun 2023 08:30
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			20 Jun 2023
4.	HS23060280-04	35AWW06_060523	Water	05 Jun 2023 09:15
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			20 Jun 2023
5.	HS23060280-05	35AWW23_060523	Water	05 Jun 2023 10:05
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			20 Jun 2023
6.	HS23060280-06	35AWW11_060523	Water	05 Jun 2023 10:55
	RSK-175 CO2; Level II & Level IV PDF; Basic Excel EDD			20 Jun 2023

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

QC Level: DOD IV (DoD Data Package)

RIGHT SOLUTIONS | RIGHT PARTNER

06 Jun 2023

Page 1 of 2





Subcontract Chain of Custody

SAMPLING STATE: Texas**COC ID: 21952**

Relinquished By: _____

Date/Time: _____

Received By: _____

Date/Time: _____

Cooler ID(s): _____

Temperature(s): _____

*Debra A. Bya**6-7-23 09:55**Jo**RAW: 1.4 Coll: 1.4*



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

Purchase Order

PO: HS23060280

VENDOR:

Eurofins Lancaster Laboratories Env't Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

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

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: 21952
TSR: Holly Tignac

Item	Catalog No	Unit Price	Quantity	Ext Price
1. RSK-175 CO2; Level II & Level NA IV PDF; Basic Excel EDD			6	

Order Total:

RIGHT SOLUTIONS | RIGHT PARTNER

06 Jun 2023

Page 1 of 1

06 Jun 2023

Page 1 of 1

PAW: 1.4 CRK: 1.4



Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-129509-1

Login Number: 129509

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Chambers, Haley

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	True	



10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133



Client: James Guin
ALS Laboratory Group
10450 Stancliff Rd
Suite 210
Houston, TX 77040

Phone:

Fax:

Identifier: 013UF

Date Rec: 06/06/2023

Report Date: 06/12/2023

Client Project #: JVPCIBH.0001

Client Project Name: LHAAP / Site 58

Purchase Order #:

Test results provided for: CENSUS

Reviewed By:

A handwritten signature in black ink that reads 'Charles Slater'.

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Results relate only to the items tested and the sample(s) as received by the laboratory.

MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville, TN 37932
 Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: ALS Laboratory Group
Project: LHAAP / Site 58

MI Project Number: 013UF
Date Received: 06/06/2023

Sample Information

Client Sample ID:	35AWW19_0605	35AWW20_060	LHSMW07_060	35AWW06_0605	35AWW23_0605
	23	523	523	23	23
Sample Date:	06/05/2023	06/05/2023	06/05/2023	06/05/2023	06/05/2023
Units:	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:	AR/CS	AR/CS	AR/CS	AR/CS	AR/CS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	<i>DHC</i>	1.90E+00	4.08E+04	1.12E+03	1.11E+01	8.21E+01
tceA Reductase	TCE	<6.00E-01	3.00E-01 (J)	4.00E-01 (J)	<5.00E-01	8.00E-01
BAV1 Vinyl Chloride Reductase	BVC	<6.00E-01	8.33E+03	5.00E-01 (J)	5.00E-01 (J)	<6.00E-01
Vinyl Chloride Reductase	VCR	<6.00E-01	1.90E+00	9.88E+02	1.50E+00	1.59E+01
<i>Dehalobacter spp.</i>	<i>DHBT</i>	1.12E+03	4.38E+04	1.64E+04	1.23E+03	6.19E+01

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected



MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville, TN 37932
 Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: ALS Laboratory Group
Project: LHAAP / Site 58

MI Project Number: 013UF
Date Received: 06/06/2023

Sample Information

Client Sample ID: 35AWW11_0605
23
Sample Date: 06/05/2023
Units: cells/mL
Analyst/Reviewer: AR/CS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	<i>DHC</i>	4.16E+02
tceA Reductase	TCE	<6.00E-01
BAV1 Vinyl Chloride Reductase	BVC	3.00E-01 (J)
Vinyl Chloride Reductase	VCR	1.17E+02
<i>Dehalobacter spp.</i>	<i>DHBt</i>	1.50E+04

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected



Quality Assurance/Quality Control Data

Samples Received 6/6/2023

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHBt	06/06/2023	06/12/2023	0 °C	104%	non-detect	non-detect
DHC	06/06/2023	06/12/2023	0 °C	108%	non-detect	non-detect
BVC	06/06/2023	06/12/2023	0 °C	100%	non-detect	non-detect
TCE	06/06/2023	06/12/2023	0 °C	100%	non-detect	non-detect
VCR	06/06/2023	06/12/2023	0 °C	101%	non-detect	non-detect



HS23060280-MSVOA-SW8260

ALS WO# HS23060280





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Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-01				Collected		Received		Matrix		Basis	
35AWW19_060523				06/05/23 06:55		06/06/23 09:30		Groundwater		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,1-Dichloroethane	ug/L	0.92	J	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,1-Dichloroethene	ug/L	4.8		0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2-Dichloroethane	ug/L	1.4		0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820	





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-01				Collected			Received		Matrix	Basis
35AWW19_060523				06/05/23 06:55			06/06/23 09:30		Groundwater	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Trichloroethene	ug/L	1.1		0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 17:47	VOA9_437473_R43747	U060820





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-02				Collected		Received		Matrix	Basis	
35AWW20_060523				06/05/23 07:45		06/06/23 09:30		Groundwater	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,1,2-Trichloroethane	ug/L	57		0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,1-Dichloroethane	ug/L	430		5.0	25	25	25	06/09/23 15:55	VOA9_437641_R43764	U060916
1,1-Dichloroethene	ug/L	1,700		5.0	25	25	25	06/09/23 15:55	VOA9_437641_R43764	U060916
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2-Dichlorobenzene	ug/L	27		0.50	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2-Dichloroethane	ug/L	13		0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,3-Dichlorobenzene	ug/L	1.2		0.40	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Benzene	ug/L	7.3		0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-02				Collected			Received		Matrix	Basis
35AWW20_060523				06/05/23 07:45			06/06/23 09:30		Groundwater	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
cis-1,2-Dichloroethene	ug/L	85		0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
trans-1,2-Dichloroethene	ug/L	7.5		0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Trichloroethene	ug/L	180		0.20	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:24	VOA9_437473_R43747	U060827
Vinyl chloride	ug/L	940		5.0	25	25	25	06/09/23 15:55	VOA9_437641_R43764	U060916





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-03				Collected	Received	Matrix	Basis			
LHSMW07_060523				06/05/23 08:30	06/06/23 09:30	Groundwater	Wet			
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,1-Dichloroethane	ug/L	13		0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,1-Dichloroethene	ug/L	93		0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2-Dichloroethane	ug/L	0.66	J	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-03				Collected		Received		Matrix	Basis	
LHSMW07_060523				06/05/23 08:30		06/06/23 09:30		Groundwater	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
cis-1,2-Dichloroethene	ug/L	1.2		0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Trichloroethene	ug/L	2.4		0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821
Vinyl chloride	ug/L	54		0.20	1.0	1.0	1	06/08/23 18:09	VOA9_437473_R43747	U060821





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-04				Collected		Received		Matrix	Basis	
35AWW06_060523				06/05/23 09:15		06/06/23 09:30		Groundwater	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,1-Dichloroethane	ug/L	0.56	J	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,1-Dichloroethene	ug/L	1.2		0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-04				Collected			Received		Matrix	Basis
35AWW06_060523				06/05/23 09:15			06/06/23 09:30		Groundwater	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:32	VOA9_437473_R43747	U060822





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-05				Collected		Received		Matrix	Basis	
35AWW23_060523				06/05/23 10:05		06/06/23 09:30		Groundwater	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-05				Collected			Received		Matrix	Basis
35AWW23_060523				06/05/23 10:05			06/06/23 09:30		Groundwater	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Toluene	ug/L	0.64	J	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 18:54	VOA9_437473_R43747	U060823





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-06				Collected		Received		Matrix	Basis	
35AWW11_060523				06/05/23 10:55		06/06/23 09:30		Groundwater	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,1-Dichloroethane	ug/L	0.74	J	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,1-Dichloroethene	ug/L	2.6		0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-06				Collected			Received		Matrix	Basis
35AWW11_060523				06/05/23 10:55			06/06/23 09:30		Groundwater	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824
Vinyl chloride	ug/L	0.61	J	0.20	1.0	1.0	1	06/08/23 19:16	VOA9_437473_R43747	U060824





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-07				Collected		Received		Matrix		Basis	
35AWW22_060523				06/05/23 11:45		06/06/23 09:30		Groundwater		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825	





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-07				Collected			Received		Matrix	Basis
35AWW22_060523				06/05/23 11:45			06/06/23 09:30		Groundwater	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 19:39	VOA9_437473_R43747	U060825





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-08				Collected		Received		Matrix	Basis	
35AWW12_060523				06/05/23 12:25		06/06/23 09:30		Groundwater	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-08				Collected			Received		Matrix	Basis
35AWW12_060523				06/05/23 12:25			06/06/23 09:30		Groundwater	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 20:01	VOA9_437473_R43747	U060826





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-09				Collected		Received		Matrix	Basis	
35AWW12_060523_a				06/05/23 12:25		06/06/23 09:30		Groundwater	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-09				Collected			Received		Matrix	Basis
35AWW12_060523_a				06/05/23 12:25			06/06/23 09:30		Groundwater	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 13:19	VOA9_437641_R43764	U060909





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-10				Collected	Received	Matrix	Basis			
Trip Blank				06/05/23 00:00	06/06/23 09:30	Water	Wet			
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

HS23060280-10				Collected			Received		Matrix	Basis
Trip Blank				06/05/23 00:00			06/06/23 09:30		Water	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:56	VOA9_437641_R43764	U060908





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

VBLKW-230608				Collected	Received	Matrix	Basis			
VBLKW-230608				NA	NA	Aqueous	Wet			
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

VBLKW-230608				Collected			Received		Matrix	Basis	
VBLKW-230608				NA			NA		Aqueous	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/08/23 12:33	VOA9_437473_R43747	U060806	





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

VBLKW-230609				Collected			Received		Matrix	Basis	
VBLKW-230609				NA			NA		Aqueous	Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907	





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

VBLKW-230609				Collected			Received		Matrix	Basis
VBLKW-230609				NA			NA		Aqueous	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/23 12:34	VOA9_437641_R43764	U060907





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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23060280

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473_R437473

Volatiles by EPA 8260

CCV	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.43	50	96.9	80-120	
4-Bromofluorobenzene	51.93	50	104	80-120	
Dibromofluoromethane	50.24	50	100	80-120	
Toluene-d8	50.8	50	102	80-120	

CCB	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.17	50	96.3	80-120	
4-Bromofluorobenzene	47.54	50	95.1	80-120	
Dibromofluoromethane	46.06	50	92.1	80-120	
Toluene-d8	54.94	50	110	80-120	

VLCSW-230608	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.06	50	100	81-118	
4-Bromofluorobenzene	54.52	50	109	85-114	
Dibromofluoromethane	50.74	50	101	80-119	
Toluene-d8	51.04	50	102	89-112	

VBLKW-230608	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.24	50	98.5	81-118	
4-Bromofluorobenzene	47.11	50	94.2	85-114	
Dibromofluoromethane	48.32	50	96.6	80-119	
Toluene-d8	53.69	50	107	89-112	

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





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473_R437473

Volatiles by EPA 8260

HS23060241-04MS	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.05	50	98.1	81-118	
4-Bromofluorobenzene	50.06	50	100	85-114	
Dibromofluoromethane	48.64	50	97.3	80-119	
Toluene-d8	55.21	50	110	89-112	

HS23060241-04MSD	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.69	50	97.4	81-118	
4-Bromofluorobenzene	49.26	50	98.5	85-114	
Dibromofluoromethane	48.71	50	97.4	80-119	
Toluene-d8	56.36	50	113	89-112	*

HS23060280-01	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50	50	99.9	81-118	
4-Bromofluorobenzene	48	50	95.1	85-114	
Dibromofluoromethane	48	50	96.6	80-119	
Toluene-d8	54	50	108	89-112	

HS23060280-03	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	54	50	109	81-118	
4-Bromofluorobenzene	47	50	94.3	85-114	
Dibromofluoromethane	49	50	98.6	80-119	
Toluene-d8	54	50	108	89-112	

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





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473_R437473

Volatiles by EPA 8260

HS23060280-04	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50	50	99.4	81-118	
4-Bromofluorobenzene	47	50	94.2	85-114	
Dibromofluoromethane	48	50	95.1	80-119	
Toluene-d8	54	50	109	89-112	

HS23060280-05	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50	50	101	81-118	
4-Bromofluorobenzene	47	50	94.9	85-114	
Dibromofluoromethane	49	50	97.2	80-119	





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

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Volatiles by EPA 8260

HS23060280-08	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	51	50	101	81-118	
4-Bromofluorobenzene	47	50	93.1	85-114	
Dibromofluoromethane	48	50	96.7	80-119	
Toluene-d8	54	50	108	89-112	

HS23060280-02	Analyzed 06/08/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	51	50	101	81-118	
4-Bromofluorobenzene	48	50	95.5	85-114	
Dibromofluoromethane	49	50	97.3	80-119	
Toluene-d8	54	50	107	89-112	

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





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641_R437641

Volatiles by EPA 8260

CCV	Analyzed 06/09/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47.42	50	94.8	80-120	
4-Bromofluorobenzene	51.79	50	104	80-120	
Dibromofluoromethane	48.26	50	96.5	80-120	
Toluene-d8	50.76	50	102	80-120	

CCB	Analyzed 06/09/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	48.54	50	97.1	80-120	
4-Bromofluorobenzene	48.09	50	96.2	80-120	
Dibromofluoromethane	47.62	50	95.2	80-120	
Toluene-d8	53.87	50	108	80-120	

VLCSW-230609	Analyzed 06/09/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	49.99	50	100.0	81-118	
4-Bromofluorobenzene	52.51	50	105	85-114	
Dibromofluoromethane	50.18	50	100	80-119	
Toluene-d8	50.83	50	102	89-112	

VBLKW-230609	Analyzed 06/09/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	53.86	50	108	81-118	
4-Bromofluorobenzene	47.21	50	94.4	85-114	
Dibromofluoromethane	48.59	50	97.2	80-119	
Toluene-d8	54.3	50	109	89-112	

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





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641_R437641

Volatiles by EPA 8260

HS23060280-10	Analyzed 06/09/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	51	50	101	81-118	
4-Bromofluorobenzene	48	50	96.1	85-114	
Dibromofluoromethane	48	50	95.5	80-119	
Toluene-d8	54	50	108	89-112	

HS23060280-09	Analyzed 06/09/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50	50	101	81-118	
4-Bromofluorobenzene	47	50	93.7	85-114	
Dibromofluoromethane	48	50	96.8	80-119	
Toluene-d8	55	50	109	89-112	

HS23060280-09MS	Analyzed 06/09/23	Conc Units µg/L		Dilution 1	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	54.64	50	109	81-118	
4-Bromofluorobenzene	49.77	50	99.5	85-114	
Dibromofluoromethane	49.97	50	99.9	80-119	
Toluene-d8	55.69	50	111	89-112	





Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641_R437641

Volatiles by EPA 8260

HS23060280-02	Analyzed 06/09/23	Conc Units µg/L		Dilution 25	
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	1,200	1250	98.6	81-118	
4-Bromofluorobenzene	1,200	1250	93.1	85-114	
Dibromofluoromethane	1,200	1250	96.9	80-119	
Toluene-d8	1,400	1250	109	89-112	

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





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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

		HS23060241-04		HS23060241-04MS				HS23060241-04MSD						
Sample Matrix Aqueous		Run Date 06/08/23		06/08/23				06/08/23						
Units µg/L		Run Time 14:03		16:17				16:40						
		Data File U060810.D		U060816.D				U060817.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	21.82	20.00	109		21.9	20.00	109		20	0.300	
1,1,1-Trichloroethane	74-131	1	0	20.66	20.00	103		20.39	20.00	102		20	1.30	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.40	20.00	97		19.98	20.00	100		20	3.00	
1,1,2-Trichloroethane	80-119	1	0	20.43	20.00	102		21.64	20.00	108		20	5.70	
1,1-Dichloroethane	77-125	1	8.185	26.60	20.00	92		26.17	20.00	90		20	1.60	
1,1-Dichloroethene	71-131	1	4.755	24.67	20.00	100		24.22	20.00	97		20	1.90	
1,1-Dichloropropene	78-125	1	0	23.43	20.00	117		22.9	20.00	114		20	2.30	
1,2,3-Trichlorobenzene	69-129	1	0	19.76	20.00	99		21.06	20.00	105		20	6.40	
1,2,3-Trichloropropane	73-122	1	0	19.18	20.00	96		20.04	20.00	100		20	4.40	
1,2,4-Trichlorobenzene	69-130	1	0	19.83	20.00	99		20.61	20.00	103		20	3.90	
1,2,4-Trimethylbenzene	76-124	1	0	20.87	20.00	104		21.46	20.00	107		20	2.80	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.31	20.00	92		19.66	20.00	98		20	7.10	
1,2-Dibromoethane	77-121	1	0	20.07	20.00	100		21.09	20.00	105		20	5.00	
1,2-Dichlorobenzene	80-119	1	0	20.94	20.00	105		21.15	20.00	106		20	1.00	
1,2-Dichloroethane	73-128	1	0	22.18	20.00	111		21.5	20.00	108		20	3.10	
1,2-Dichloropropane	78-122	1	3.915	24.61	20.00	103		24.31	20.00	102		20	1.20	
1,3,5-Trimethylbenzene	75-124	1	0	21.97	20.00	110		22.26	20.00	111		20	1.30	
1,3-Dichlorobenzene	80-119	1	0	21.23	20.00	106		21.58	20.00	108		20	1.60	
1,3-Dichloropropane	80-119	1	0	20.99	20.00	105		21.46	20.00	107		20	2.20	
1,4-Dichlorobenzene	79-118	1	0	20.85	20.00	104		20.97	20.00	105		20	0.600	
2,2-Dichloropropane	60-139	1	0	20.67	20.00	103		20.18	20.00	101		20	2.40	
2-Butanone	56-143	1	0	31.62	40.00	79		34.03	40.00	85		20	7.30	
2-Chlorotoluene	79-122	1	0	22.62	20.00	113		22.61	20.00	113		20	0.100	
2-Hexanone	57-139	1	0	37.17	40.00	93		40.23	40.00	101		20	7.90	
4-Chlorotoluene	78-122	1	0	22.66	20.00	113		22.45	20.00	112		20	0.900	
4-Isopropyltoluene	77-127	1	0	22.69	20.00	113		23.25	20.00	116		20	2.40	
4-Methyl-2-pentanone	67-130	1	0	39.92	40.00	100		42.72	40.00	107		20	6.80	
Acetone	39-160	1	0	28.83	40.00	72		28.85	40.00	72		20	0.100	
Benzene	79-120	1	0	21.81	20.00	109		21.82	20.00	109		20	0.100	
Bromobenzene	80-120	1	0	21.14	20.00	106		21.26	20.00	106		20	0.600	
Bromochloromethane	78-123	1	0	17.80	20.00	89		19.05	20.00	95		20	6.80	
Bromodichloromethane	79-125	1	0	20.73	20.00	104		20.57	20.00	103		20	0.800	
Bromoform	66-130	1	0	19.68	20.00	98		20.65	20.00	103		20	4.80	
Bromomethane	53-141	1	0	19.26	20.00	96		19.72	20.00	99		20	2.40	

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits

OL - Outside Limits





Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

		HS23060241-04		HS23060241-04MS				HS23060241-04MSD						
Sample Matrix Aqueous		Run Date 06/08/23		06/08/23				06/08/23						
Units µg/L		Run Time 14:03		16:17				16:40						
		Data File U060810.D		U060816.D				U060817.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	40.54	40.00	101		39.95	40.00	100		20	1.50	
Carbon tetrachloride	72-136	1	0	23.40	20.00	117		23.33	20.00	117		20	0.300	
Chlorobenzene	82-118	1	0	21.73	20.00	109		22.05	20.00	110		20	1.50	
Chloroethane	60-138	1	0	18.46	20.00	92		17.92	20.00	90		20	3.00	
Chloroform	79-124	1	5.021	24.72	20.00	99		24.37	20.00	97		20	1.40	
Chloromethane	50-139	1	0	19.45	20.00	97		18.19	20.00	91		20	6.70	
cis-1,2-Dichloroethene	78-123	1	36.21	54.88	20.00	93		54.25	20.00	90		20	1.20	
cis-1,3-Dichloropropene	75-124	1	0	19.14	20.00	96		18.93	20.00	95		20	1.10	
Dibromochloromethane	74-126	1	0	21.20	20.00	106		21.97	20.00	110		20	3.50	
Dibromomethane	79-123	1	0	20.58	20.00	103		20.09	20.00	100		20	2.40	
Dichlorodifluoromethane	32-152	1	0	12.71	20.00	64		12.72	20.00	64		20	0.100	
Ethylbenzene	79-121	1	0	23.47	20.00	117		23.73	20.00	119		20	1.10	
Hexachlorobutadiene	66-134	1	0	22.44	20.00	112		22.64	20.00	113		20	0.900	
Isopropylbenzene	72-131	1	0	24.94	20.00	125		24.79	20.00	124		20	0.600	
m,p-Xylene	80-121	1	0	48.15	40.00	120		48.16	40.00	120		20	0	
Methylene chloride	74-124	1	0	19.22	20.00	96		19.14	20.00	96		20	0.400	
n-Butylbenzene	75-128	1	0	22.87	20.00	114		23.44	20.00	117		20	2.50	
n-Propylbenzene	76-126	1	0	23.31	20.00	117		24.27	20.00	121		20	4.00	
Naphthalene	61-128	1	0	19.50	20.00	98		21.84	20.00	109		20	11.3	
o-Xylene	78-122	1	0	22.89	20.00	114		23.15	20.00	116		20	1.10	
sec-Butylbenzene	77-126	1	0	24.01	20.00	120		24.53	20.00	123		20	2.20	
Styrene	78-123	1	0	23.19	20.00	116		23.56	20.00	118		20	1.60	
tert-Butylbenzene	78-124	1	0	23.50	20.00	118		23.96	20.00	120		20	1.90	
Tetrachloroethene	74-129	1	16.72	41.27	20.00	123		41.46	20.00	124		20	0.500	
Toluene	80-121	1	0	23.02	20.00	115		23.4	20.00	117		20	1.60	
trans-1,2-Dichloroethene	75-124	1	0.4192	20.99	20.00	103		20.13	20.00	99		20	4.20	
trans-1,3-Dichloropropene	73-127	1	0	18.25	20.00	91		18.85	20.00	94		20	3.20	
Trichloroethene	79-123	1	20.45	41.55	20.00	105		41.63	20.00	106		20	0.200	
Trichlorofluoromethane	65-141	1	0	21.75	20.00	109		20.51	20.00	103		20	5.90	
Vinyl chloride	58-137	1	0.4409	19.08	20.00	93		18.76	20.00	92		20	1.70	

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits

OL - Outside Limits





Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

35AWW12_060523_a		HS23060280-09		HS23060280-09MS		HS23060280-09MSD			
Sample Matrix	Aqueous	Run Date	06/09/23	06/09/23		06/09/23			
Units	µg/L	Run Time	13:19	14:48		15:11			
		Data File	U060909.D	U060913.D		U060914.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	21.26	20.00	106		21.27	20.00	106		20	0	
1,1,1-Trichloroethane	74-131	1	0	21.62	20.00	108		19.86	20.00	99		20	8.50	
1,1,2,2-Tetrachloroethane	71-121	1	0	18.76	20.00	94		19.2	20.00	96		20	2.30	
1,1,2-Trichloroethane	80-119	1	0	20.40	20.00	102		20.03	20.00	100		20	1.80	
1,1-Dichloroethane	77-125	1	0	20.26	20.00	101		18.13	20.00	91		20	11.1	
1,1-Dichloroethene	71-131	1	0	22.20	20.00	111		18.88	20.00	94		20	16.2	
1,1-Dichloropropene	78-125	1	0	23.37	20.00	117		22.42	20.00	112		20	4.20	
1,2,3-Trichlorobenzene	69-129	1	0	19.23	20.00	96		19.28	20.00	96		20	0.200	
1,2,3-Trichloropropane	73-122	1	0	18.54	20.00	93		18.89	20.00	94		20	1.80	
1,2,4-Trichlorobenzene	69-130	1	0	19.79	20.00	99		19.65	20.00	98		20	0.700	
1,2,4-Trimethylbenzene	76-124	1	0	21.05	20.00	105		21.71	20.00	109		20	3.10	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.26	20.00	91		18	20.00	90		20	1.40	
1,2-Dibromoethane	77-121	1	0	19.85	20.00	99		19.6	20.00	98		20	1.30	
1,2-Dichlorobenzene	80-119	1	0	20.37	20.00	102		19.97	20.00	100		20	1.90	
1,2-Dichloroethane	73-128	1	0	21.70	20.00	109		20	20.00	100		20	8.20	
1,2-Dichloropropane	78-122	1	0	20.09	20.00	100		20.12	20.00	101		20	0.200	
1,3,5-Trimethylbenzene	75-124	1	0	21.75	20.00	109		22.09	20.00	110		20	1.60	
1,3-Dichlorobenzene	80-119	1	0	20.51	20.00	103		20.57	20.00	103		20	0.300	
1,3-Dichloropropane	80-119	1	0	20.75	20.00	104		20.32	20.00	102		20	2.10	
1,4-Dichlorobenzene	79-118	1	0	20.29	20.00	101		20.21	20.00	101		20	0.400	
2,2-Dichloropropane	60-139	1	0	22.86	20.00	114		19.98	20.00	100		20	13.4	
2-Butanone	56-143	1	0	33.81	40.00	85		31.38	40.00	78		20	7.50	
2-Chlorotoluene	79-122	1	0	21.91	20.00	110		21.74	20.00	109		20	0.800	
2-Hexanone	57-139	1	0	36.10	40.00	90		36.52	40.00	91		20	1.20	
4-Chlorotoluene	78-122	1	0	22.03	20.00	110		21.98	20.00	110		20	0.200	
4-Isopropyltoluene	77-127	1	0	22.41	20.00	112		22.65	20.00	113		20	1.10	
4-Methyl-2-pentanone	67-130	1	0	38.80	40.00	97		39.04	40.00	98		20	0.600	
Acetone	39-160	1	0	32.61	40.00	82		31.56	40.00	79		20	3.30	
Benzene	79-120	1	0	20.56	20.00	103		20.58	20.00	103		20	0.100	
Bromobenzene	80-120	1	0	20.16	20.00	101		20.08	20.00	100		20	0.400	
Bromochloromethane	78-123	1	0	18.01	20.00	90		17.84	20.00	89		20	0.900	
Bromodichloromethane	79-125	1	0	20.95	20.00	105		19.57	20.00	98		20	6.80	
Bromoform	66-130	1	0	19.68	20.00	98		19.01	20.00	95		20	3.50	
Bromomethane	53-141	1	0	23.00	20.00	115		20.24	20.00	101		20	12.8	

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits

OL - Outside Limits





Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

35AWW12_060523_a		HS23060280-09		HS23060280-09MS				HS23060280-09MSD						
Sample Matrix Aqueous		Run Date 06/09/23		06/09/23				06/09/23						
Units µg/L		Run Time 13:19		14:48				15:11						
		Data File U060909.D		U060913.D				U060914.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	44.28	40.00	111		38.45	40.00	96		20	14.1	
Carbon tetrachloride	72-136	1	0	23.88	20.00	119		22.66	20.00	113		20	5.20	
Chlorobenzene	82-118	1	0	21.50	20.00	108		20.87	20.00	104		20	3.00	
Chloroethane	60-138	1	0	19.71	20.00	99		17.93	20.00	90		20	9.40	
Chloroform	79-124	1	0	19.72	20.00	99		18.4	20.00	92		20	6.90	
Chloromethane	50-139	1	0	19.12	20.00	96		15.8	20.00	79		20	19.0	
cis-1,2-Dichloroethene	78-123	1	0	21.05	20.00	105		17.25	20.00	86		20	19.8	
cis-1,3-Dichloropropene	75-124	1	0	19.68	20.00	98		18.49	20.00	93		20	6.20	
Dibromochloromethane	74-126	1	0	20.27	20.00	101		20.46	20.00	102		20	0.900	
Dibromomethane	79-123	1	0	20.64	20.00	103		19.64	20.00	98		20	5.00	
Dichlorodifluoromethane	32-152	1	0	14.39	20.00	72		12.64	20.00	63		20	12.9	
Ethylbenzene	79-121	1	0	22.87	20.00	114		22.19	20.00	111		20	3.00	
Hexachlorobutadiene	66-134	1	0	23.16	20.00	116		21.83	20.00	109		20	5.90	
Isopropylbenzene	72-131	1	0	24.43	20.00	122		23.76	20.00	119		20	2.80	
m,p-Xylene	80-121	1	0	46.56	40.00	116		46.16	40.00	115		20	0.900	
Methylene chloride	74-124	1	0	21.14	20.00	106		17.13	20.00	86		20	20.9	
n-Butylbenzene	75-128	1	0	23.29	20.00	116		22.88	20.00	114		20	1.80	
n-Propylbenzene	76-126	1	0	23.49	20.00	117		23.33	20.00	117		20	0.700	
Naphthalene	61-128	1	0	19.07	20.00	95		20.26	20.00	101		20	6.00	
o-Xylene	78-122	1	0	22.59	20.00	113		22.07	20.00	110		20	2.30	
sec-Butylbenzene	77-126	1	0	23.60	20.00	118		23.47	20.00	117		20	0.600	
Styrene	78-123	1	0	22.39	20.00	112		22.41	20.00	112		20	0.100	
tert-Butylbenzene	78-124	1	0	23.47	20.00	117		23.15	20.00	116		20	1.40	
Tetrachloroethene	74-129	1	0	24.70	20.00	124		24.31	20.00	122		20	1.60	
Toluene	80-121	1	0	22.38	20.00	112		22.02	20.00	110		20	1.60	
trans-1,2-Dichloroethene	75-124	1	0	20.81	20.00	104		19.09	20.00	96		20	8.60	
trans-1,3-Dichloropropene	73-127	1	0	19.13	20.00	96		17.47	20.00	87		20	9.10	
Trichloroethene	79-123	1	0	20.97	20.00	105		20.94	20.00	105		20	0.200	
Trichlorofluoromethane	65-141	1	0	24.47	20.00	122		21.59	20.00	108		20	12.5	
Vinyl chloride	58-137	1	0	19.30	20.00	97		17.42	20.00	87		20	10.3	

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits

OL - Outside Limits





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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

VOA9_437473_R437473		QC ID		LCS-R437473		
QC Matrix	Aqueous	Units ug/L	Run Date Run Time	06/08/23 12:11		
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,1,2-Tetrachloroethane	78-124	20	19.27	96		
1,1,1-Trichloroethane	74-131	20	18.37	92		
1,1,2,2-Tetrachloroethane	71-121	20	18.12	91		
1,1,2-Trichloroethane	80-119	20	18.98	95		
1,1-Dichloroethane	77-125	20	17.89	89		
1,1-Dichloroethene	71-131	20	18.14	91		
1,1-Dichloropropene	78-125	20	19.61	98		
1,2,3-Trichlorobenzene	69-129	20	18.95	95		
1,2,3-Trichloropropane	73-122	20	18.18	91		
1,2,4-Trichlorobenzene	69-130	20	18.5	92		
1,2,4-Trimethylbenzene	76-124	20	19.03	95		
1,2-Dibromo-3-chloropropane	62-128	20	17.36	87		
1,2-Dibromoethane	77-121	20	19.03	95		
1,2-Dichlorobenzene	80-119	20	18.95	95		
1,2-Dichloroethane	73-128	20	19.4	97		
1,2-Dichloroethane-d4	81-118	50	50.06	100		
1,2-Dichloropropane	78-122	20	19.61	98		
1,3,5-Trimethylbenzene	75-124	20	18.81	94		
1,3-Dichlorobenzene	80-119	20	18.98	95		
1,3-Dichloropropane	80-119	20	19.14	96		
1,4-Dichlorobenzene	79-118	20	18.65	93		
2,2-Dichloropropane	60-139	20	19.31	97		
2-Butanone	56-143	40	35.65	89		
2-Chlorotoluene	79-122	20	19.78	99		
2-Hexanone	57-139	40	36.81	92		
4-Bromofluorobenzene	85-114	50	54.52	109		
4-Chlorotoluene	78-122	20	19.84	99		
4-Isopropyltoluene	77-127	20	18.89	94		
4-Methyl-2-pentanone	67-130	40	38.54	96		
Acetone	39-160	40	39.19	98		
Benzene	79-120	20	19.68	98		
Bromobenzene	80-120	20	18.91	94		
Bromochloromethane	78-123	20	18.33	92		
Bromodichloromethane	79-125	20	19.15	96		
Bromoform	66-130	20	19.25	96		

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits





Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

VOA9_437473_R437473		QC ID		LCS-R437473		
QC Matrix	Aqueous	Units ug/L	Run Date Run Time	06/08/23 12:11		
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
Bromomethane	53-141	20	21.61	108		
Carbon disulfide	64-133	40	37.44	94		
Carbon tetrachloride	72-136	20	18.13	91		
Chlorobenzene	82-118	20	19.45	97		
Chloroethane	60-138	20	17.73	89		
Chloroform	79-124	20	18.71	94		
Chloromethane	50-139	20	17.44	87		
cis-1,2-Dichloroethene	78-123	20	18.29	92		
cis-1,3-Dichloropropene	75-124	20	18.07	90		
Dibromochloromethane	74-126	20	19.73	99		
Dibromofluoromethane	80-119	50	50.74	101		
Dibromomethane	79-123	20	19.64	98		
Dichlorodifluoromethane	32-152	20	17.1	86		
Ethylbenzene	79-121	20	19.63	98		
Hexachlorobutadiene	66-134	20	20.82	104		
Isopropylbenzene	72-131	20	20.22	101		
m,p-Xylene	80-121	40	41.31	103		
Methylene chloride	74-124	20	19.61	98		
Naphthalene	61-128	20	19.07	95		
n-Butylbenzene	75-128	20	18.99	95		
n-Propylbenzene	76-126	20	19.39	97		
o-Xylene	78-122	20	20.11	101		
sec-Butylbenzene	77-126	20	18.68	93		
Styrene	78-123	20	21.5	107		
tert-Butylbenzene	78-124	20	18.74	94		
Tetrachloroethene	74-129	20	19.77	99		
Toluene	80-121	20	19.8	99		
Toluene-d8	89-112	50	51.04	102		
trans-1,2-Dichloroethene	75-124	20	18.75	94		
trans-1,3-Dichloropropene	73-127	20	17.79	89		
Trichloroethene	79-123	20	19.27	96		
Trichlorofluoromethane	65-141	20	18.17	91		
Vinyl chloride	58-137	20	18.19	91		

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits





Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

VOA9_437641_R437641		QC ID		LCS-R437641		
QC Matrix	Aqueous	Units	Run Date	06/09/23		
		ug/L	Run Time	11:49		
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
1,1,1,2-Tetrachloroethane	78-124	20	19	95		
1,1,1-Trichloroethane	74-131	20	17.36	87		
1,1,2,2-Tetrachloroethane	71-121	20	18.66	93		
1,1,2-Trichloroethane	80-119	20	18.65	93		
1,1-Dichloroethane	77-125	20	16.29	81		
1,1-Dichloroethene	71-131	20	16.74	84		
1,1-Dichloropropene	78-125	20	18.14	91		
1,2,3-Trichlorobenzene	69-129	20	18.18	91		
1,2,3-Trichloropropane	73-122	20	18.67	93		
1,2,4-Trichlorobenzene	69-130	20	18.42	92		
1,2,4-Trimethylbenzene	76-124	20	18.52	93		
1,2-Dibromo-3-chloropropane	62-128	20	17.87	89		
1,2-Dibromoethane	77-121	20	18.59	93		
1,2-Dichlorobenzene	80-119	20	18.3	92		
1,2-Dichloroethane	73-128	20	19.02	95		
1,2-Dichloroethane-d4	81-118	50	49.99	100		
1,2-Dichloropropane	78-122	20	19.13	96		
1,3,5-Trimethylbenzene	75-124	20	18.29	92		
1,3-Dichlorobenzene	80-119	20	18.19	91		
1,3-Dichloropropane	80-119	20	18.86	94		
1,4-Dichlorobenzene	79-118	20	18.11	90		
2,2-Dichloropropane	60-139	20	18.48	92		
2-Butanone	56-143	40	36.01	90		
2-Chlorotoluene	79-122	20	18.98	95		
2-Hexanone	57-139	40	38.13	95		
4-Bromofluorobenzene	85-114	50	52.51	105		
4-Chlorotoluene	78-122	20	18.94	95		
4-Isopropyltoluene	77-127	20	18.39	92		
4-Methyl-2-pentanone	67-130	40	39.73	99		
Acetone	39-160	40	41.88	105		
Benzene	79-120	20	18.68	93		
Bromobenzene	80-120	20	18.57	93		
Bromochloromethane	78-123	20	16.41	82		
Bromodichloromethane	79-125	20	18.43	92		
Bromoform	66-130	20	18.32	92		

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits





Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

VOA9_437641_R437641		QC ID		LCS-R437641		
QC Matrix	Aqueous	Units	Run Date	06/09/23		
		ug/L	Run Time	11:49		
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	
Bromomethane	53-141	20	21.06	105		
Carbon disulfide	64-133	40	32.71	82		
Carbon tetrachloride	72-136	20	17.2	86		
Chlorobenzene	82-118	20	18.73	94		
Chloroethane	60-138	20	16.08	80		
Chloroform	79-124	20	17.22	86		
Chloromethane	50-139	20	16.13	81		
cis-1,2-Dichloroethene	78-123	20	17.28	86		
cis-1,3-Dichloropropene	75-124	20	17.67	88		
Dibromochloromethane	74-126	20	19.62	98		
Dibromofluoromethane	80-119	50	50.18	100		
Dibromomethane	79-123	20	18.4	92		
Dichlorodifluoromethane	32-152	20	15.36	77		
Ethylbenzene	79-121	20	19.36	97		
Hexachlorobutadiene	66-134	20	19.81	99		
Isopropylbenzene	72-131	20	18.7	94		
m,p-Xylene	80-121	40	39.23	98		
Methylene chloride	74-124	20	17.45	87		
Naphthalene	61-128	20	19.05	95		
n-Butylbenzene	75-128	20	18.31	92		
n-Propylbenzene	76-126	20	18.03	90		
o-Xylene	78-122	20	19.37	97		
sec-Butylbenzene	77-126	20	17.7	88		
Styrene	78-123	20	20.47	102		
tert-Butylbenzene	78-124	20	17.79	89		
Tetrachloroethene	74-129	20	18.34	92		
Toluene	80-121	20	18.92	95		
Toluene-d8	89-112	50	50.83	102		
trans-1,2-Dichloroethene	75-124	20	16.62	83		
trans-1,3-Dichloropropene	73-127	20	17.42	87		
Trichloroethene	79-123	20	18.3	92		
Trichlorofluoromethane	65-141	20	17.75	89		
Vinyl chloride	58-137	20	16.41	82		

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits





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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23060280

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230608	U060806.D	06/08/23 12:33	VOA9_437473_R437473
VLCSW-230608	LCS	VLCSW-230608	U060805.D	06/08/23 12:11	VOA9_437473_R437473
BatchQC	MS	HS23060241-04MS	U060816.D	06/08/23 16:17	VOA9_437473_R437473
BatchQC	MSD	HS23060241-04MSD	U060817.D	06/08/23 16:40	VOA9_437473_R437473
35AWW19_060523	SAMP	HS23060280-01	U060820.D	06/08/23 17:47	VOA9_437473_R437473
LHSMW07_060523	SAMP	HS23060280-03	U060821.D	06/08/23 18:09	VOA9_437473_R437473
35AWW06_060523	SAMP	HS23060280-04	U060822.D	06/08/23 18:32	VOA9_437473_R437473
35AWW23_060523	SAMP	HS23060280-05	U060823.D	06/08/23 18:54	VOA9_437473_R437473
35AWW11_060523	SAMP	HS23060280-06	U060824.D	06/08/23 19:16	VOA9_437473_R437473
35AWW22_060523	SAMP	HS23060280-07	U060825.D	06/08/23 19:39	VOA9_437473_R437473
35AWW12_060523	SAMP	HS23060280-08	U060826.D	06/08/23 20:01	VOA9_437473_R437473
35AWW20_060523	SAMP	HS23060280-02	U060827.D	06/08/23 20:24	VOA9_437473_R437473





Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230609	U060907.D	06/09/23 12:34	VOA9_437641_R437641 1
VLCSW-230609	LCS	VLCSW-230609	U060905.D	06/09/23 11:49	VOA9_437641_R437641
Trip Blank	SAMP	HS23060280-10	U060908.D	06/09/23 12:56	VOA9_437641_R437641
35AWW12_060523_a	SAMP	HS23060280-09	U060909.D	06/09/23 13:19	VOA9_437641_R437641
35AWW12_060523_a	MS	HS23060280-09MS	U060913.D	06/09/23 14:48	VOA9_437641_R437641
35AWW12_060523_a	MSD	HS23060280-09MSD	U060914.D	06/09/23 15:11	VOA9_437641_R437641
35AWW20_060523	SAMP	HS23060280-02	U060916.D	06/09/23 15:55	VOA9_437641_R437641





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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

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Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437296

Tune File U060601.D		06/06/23 10:53
m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19 (19)
75	30.0 - 60.0% of mass 95	46.7 (46.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.86)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	92.1 (92.1)
175	4.0 - 9.0% of mass 174	8 (8.69) 1
176	93.0 - 101.0% of mass 174	89.4 (97) 1
177	5.0 - 9.0% of mass 176	6.1 (6.87) 2
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	06/06/23 11:15	U060602	VSTD000.25
2	ICAL2	06/06/23 11:37	U060603	VSTD000.5
3	ICAL5	06/06/23 13:06	U060606	VSTD005
4	ICAL3	06/06/23 13:28	U060607	VSTD001
5	ICAL4	06/06/23 13:50	U060608	VSTD002
6	ICAL6	06/06/23 14:13	U060609	VSTD020
7	ICAL7	06/06/23 14:35	U060610	VSTD050
8	ICAL8	06/06/23 14:57	U060611	VSTD100
9	ICAL9	06/06/23 15:19	U060612	VSTD150
10	ICAL	06/06/23 15:41	U060613	VSTD200
11	ICV	06/06/23 16:48	U060616	CCV





Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Tune File U060801.D		06/08/23 10:42
m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	17.8 (17.8)
75	30.0 - 60.0% of mass 95	47.6 (47.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.85)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	94.2 (94.2)
175	4.0 - 9.0% of mass 174	8.2 (8.7) 1
176	93.0 - 101.0% of mass 174	91.2 (96.7) 1
177	5.0 - 9.0% of mass 176	6.3 (6.92) 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	06/08/23 11:26	U060803	CCV
2	CCB	06/08/23 11:49	U060804	CCB
3	LCS	06/08/23 12:11	U060805	VLCSW-230608
4	MBLK	06/08/23 12:33	U060806	VBLKW-230608
5	MS	06/08/23 16:17	U060816	ZZZZZMS
6	MSD	06/08/23 16:40	U060817	ZZZZZMSD
7	SAMP	06/08/23 17:47	U060820	35AWW19_060523
8	SAMP	06/08/23 18:09	U060821	LHSMW07_060523
9	SAMP	06/08/23 18:32	U060822	35AWW06_060523
10	SAMP	06/08/23 18:54	U060823	35AWW23_060523
11	SAMP	06/08/23 19:16	U060824	35AWW11_060523
12	SAMP	06/08/23 19:39	U060825	35AWW22_060523
13	SAMP	06/08/23 20:01	U060826	35AWW12_060523
14	SAMP	06/08/23 20:24	U060827	35AWW20_060523
15	CCV_EN	06/08/23 20:46	U060828	CCV-END





Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Tune File U060901.D		06/09/23 10:20
m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.4 (18.4)
75	30.0 - 60.0% of mass 95	46.8 (46.8)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.6 (6.55)
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 120.0% of mass 95	90.6 (90.6)
175	4.0 - 9.0% of mass 174	8.1 (8.94) 1
176	93.0 - 101.0% of mass 174	87.4 (96.4) 1
177	5.0 - 9.0% of mass 176	6.3 (7.18) 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	06/09/23 11:04	U060903	CCV
2	CCB	06/09/23 11:27	U060904	CCB
3	LCS	06/09/23 11:49	U060905	VLCSW-230609
4	MBLK	06/09/23 12:34	U060907	VBLKW-230609
5	SAMP	06/09/23 12:56	U060908	Trip Blank
6	SAMP	06/09/23 13:19	U060909	35AWW12_060523_a
7	MS	06/09/23 14:48	U060913	HS23060280-09MS
8	MSD	06/09/23 15:11	U060914	HS23060280-09MSD
9	SAMP	06/09/23 15:55	U060916	35AWW20_060523
10	CCV_EN	06/09/23 18:32	U060923	CCV-END





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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23060280

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437296

Calibration Files

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

Level 1 ..voa9.i\U230606.b\U060602.D

Level 2 ..voa9.i\U230606.b\U060603A.D

Level 3 ..voa9.i\U230606.b\U060607.D

Level 4 ..voa9.i\U230606.b\U060608.D

Level 5 ..voa9.i\U230606.b\U060606.D

Level 6 ..voa9.i\U230606.b\U060609.D

Level 7 ..voa9.i\U230606.b\U060610.D

Level 8 ..voa9.i\U230606.b\U060611.D

Level 9 ..voa9.i\U230606.b\U060612.D

Level 10..voa9.i\U230606.b\U060613.D

Compound	Level 1 0.250	Level 2 0.500	Level 3 1.00	Level 4 2.00	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R ²	Q
	Level 7 50.0	Level 8 100.0	Level 9 150.0	Level 10 200.0								
Dichlorodifluoromethane	NE 301782	3237 630744	5058 960667	8519 1327832	31172	134998	LINR	0.00160	0.46271		0.99983	
Chloromethane	NE 533277	6740 979734	13219 NE	24280 NE	62455	243997	LINR	-0.02699	0.73429		0.99792	
Propionitrile	NE 0.06910	0.08304 0.07191	0.07790 0.06959	0.06567 0.06755	0.07543	0.07008	AVRG		0.07225		7.66936	
Vinyl Chloride	NE 0.54961	0.53164 0.55242	0.43717 0.54597	0.48902 0.54834	0.55204	0.55364	AVRG		0.52887		7.56687	
Bromomethane	NE 189385	2378 362834	5133 572508	9237 739966	23995	85360	LINR	-0.03678	0.26230		0.99829	
Chloroethane	NE 0.34874	0.38400 0.34887	0.39288 0.34148	0.33413 0.33605	0.35705	0.36318	AVRG		0.35626		5.77503	
Trichlorofluoromethane	NE 0.60336	0.65250 0.63856	0.50831 0.62802	0.50964 0.62488	0.63485	0.66665	AVRG		0.60742		9.63343	
Acrolein	NE 0.02565	0.03356 0.02534	0.02950 0.02449	0.02511 0.02533	0.02566	0.02421	AVRG		0.02654		11.47974	
Acetone	NE 245967	8112 467276	12344 669020	18337 NE	31915	105410	LINR	-0.11414	0.16245		0.99760	
1,1-Dichloroethene	NE 0.37538	0.43475 0.38325	0.34844 0.38119	0.33936 0.38464	0.38705	0.38169	AVRG		0.37953		7.06417	

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-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 2 / 11

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 0.06592	0.06000 0.06937	0.06647 0.06652	0.06001 0.06907	0.06288	0.06445	AVRG		0.06496		5.32316	
Acetonitrile	NE 0.05262	0.06019 0.05598	0.05501 0.05486	0.05232 0.05223	0.05374	0.05025	AVRG		0.05413		5.29738	
Allyl Chloride	NE 1.23994	1.54447 1.31147	1.31408 1.28770	1.21739 1.22743	1.32627	1.21434	AVRG		1.29812		7.89105	
Iodomethane	NE 311144	1872 901104	3593 1654094	5244 2389174	10875	69713	QUAD	0.19719	3.17029	-0.25959	0.99395	*
Acrylonitrile	NE 0.17643	0.19222 0.19265	0.17779 0.18699	0.18194 0.18155	0.19969	0.17956	AVRG		0.18542		4.28504	
Methylene Chloride	NE 313459	6638 614571	9867 934598	14226 1286266	34262	133454	LINR	-0.02055	0.44680		0.99989	
Methyl tert-butyl ether	NE 1.11011	1.34489 1.18230	1.22763 1.16687	1.06262 1.13583	1.16892	1.07548	AVRG		1.16385		7.37549	
Carbon Disulfide	NE 1.05257	0.97637 1.06234	0.93978 1.05033	0.91298 1.04865	1.04258	1.04592	AVRG		1.01461		5.54329	
trans-1,2-Dichloroethene	NE 0.42568	0.43966 0.42424	0.36838 0.41068	0.38985 0.41906	0.41680	0.42038	AVRG		0.41275		5.16490	
Vinyl Acetate	NE 1.24787	1.16903 1.32894	1.28605 1.32075	1.14428 1.28290	1.31826	1.22557	AVRG		1.25818		5.33224	
1,1-Dichloroethane	NE 0.75452	0.91579 0.74633	0.85153 0.73811	0.77473 0.73300	0.79838	0.74713	AVRG		0.78439		7.88122	
Chloroprene	NE 0.15370	0.18753 0.16003	0.14913 0.16411	0.13564 0.16977	0.14899	0.16635	AVRG		0.15947		9.35578	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 3 / 11

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 0.21032	0.26865 0.21900	0.27005 0.21311	0.22221 0.20708	0.22579	0.21550	AVRG		0.22797		10.59636	
Methacrylonitrile	NE 0.29063	0.32297 0.31155	0.29216 0.31218	0.25772 0.29964	0.27607	0.29576	AVRG		0.29541		6.71428	
2,2-Dichloropropane	NE 344673	3685 699035	6247 1080274	12294 1505657	33762	139835	LINR	0.00797	0.52278		0.99995	
cis-1,2-Dichloroethene	NE 0.48847	0.54176 0.48782	0.49058 0.48487	0.46721 0.48248	0.51503	0.48586	AVRG		0.49378		4.41592	
Chloroform	NE 0.81885	0.87650 0.81161	0.79076 0.79868	0.79799 0.79042	0.85300	0.80968	AVRG		0.81639		3.62615	
Bromochloromethane	NE 0.26708	0.31315 0.26410	0.30614 0.26302	0.26452 0.25295	0.28615	0.26876	AVRG		0.27621		7.56831	
1,1,1-Trichloroethane	NE 0.63238	0.65994 0.65446	0.57497 0.64619	0.52644 0.65564	0.61086	0.63915	AVRG		0.62223		7.20510	
1,1-Dichloropropene	NE 0.37173	0.32259 0.39025	0.38290 0.38140	0.31292 0.38981	0.36218	0.38416	AVRG		0.36644		7.93028	
1,2-Dichloroethane	NE 0.42081	0.46850 0.42485	0.42052 0.41425	0.45938 0.40606	0.45322	0.42725	AVRG		0.43276		5.06646	
Carbon Tetrachloride	NE 0.34607	0.35476 0.37126	0.28321 0.36664	0.26732 0.37542	0.31231	0.35238	AVRG		0.33660		11.75294	
Benzene	NE 1.23100	1.18679 1.22379	1.09401 1.20222	1.22033 1.18837	1.26301	1.23391	AVRG		1.20483		3.98055	
Trichloroethene	NE 0.34006	0.37553 0.34777	0.35201 0.34410	0.32048 0.34873	0.36729	0.34693	AVRG		0.34921		4.49432	

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-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 4 / 11

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 0.38236	0.38289 0.40428	0.33360 0.40608	0.32980 0.40603	0.37143	0.36599	AVRG		0.37583		7.72711	
Methyl Methacrylate	NE 0.43942	0.45886 0.46989	0.38280 0.46614	0.37522 0.45591	0.40434	0.41660	AVRG		0.42991		8.44989	
2-Chloroethylvinyl ether	NE 0.00884	0.00852 0.00999	0.00946 NE	0.00945 NE	0.00895	0.00842	AVRG		0.00909		6.25191	
1,2-Dichloropropane	NE 0.32122	NE 0.32222	0.32786 0.32000	0.31466 0.31897	0.32797	0.32063	AVRG		0.32169		1.38453	*
2-Nitropropane	NE 0.11432	0.20680 0.13484	50.26056 0.13886	40.89437 0.13916	0.11155	0.10087	AVRG		10.23348		197	*
Dibromomethane	NE 0.19996	0.21005 0.20667	0.21181 0.20373	0.20209 0.20258	0.21295	0.20004	AVRG		0.20554		2.43958	
4-Methyl-2-Pentanone	NE 0.35703	0.31052 0.36713	0.34114 0.37263	0.41679 0.36509	0.37151	0.37510	AVRG		0.36411		7.81829	
cis-1,3-Dichloropropene	NE 477156	4533 1015887	6985 1649908	12842 2272308	37734	176588	LINR	0.03823	0.52354		0.99932	
Ethyl Methacrylate	NE 0.43593	0.46860 0.47447	0.39717 0.47560	0.34291 0.47794	0.45495	0.41708	AVRG		0.43830		10.42832	
Toluene	NE 1.37452	1.46131 1.35611	1.30389 1.33752	1.24034 1.30792	1.38024	1.44328	AVRG		1.35612		5.10785	
trans-1,3-Dichloropropene	NE 395477	4073 857257	5962 1382903	12660 1913130	31811	143978	LINR	0.04043	0.44043		0.99920	
2-Hexanone	NE 0.23737	0.21896 0.24894	0.27173 0.24680	0.31735 0.24494	0.24794	0.24808	AVRG		0.25357		10.85593	

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-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 5 / 11

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 0.26145	0.27781 0.26759	0.33823 0.26884	0.29394 0.26174	0.29026	0.27967	AVRG		0.28217		8.50628	
1,3-Dichloropropane	NE 0.56388	0.60411 0.56350	0.57145 0.56462	0.58138 0.54844	0.60045	0.59066	AVRG		0.57650		3.26997	
Dibromochloromethane	NE 0.35269	0.33281 0.37245	0.26753 0.38159	0.28317 0.37861	0.30864	0.33570	AVRG		0.33480		12.37215	
Tetrachloroethene	NE 0.31218	0.33596 0.32329	0.35937 0.32063	0.31268 0.32848	0.33355	0.34752	AVRG		0.33041		4.74735	
1,2-Dibromoethane	NE 0.32995	0.39291 0.33734	0.36483 0.33751	0.35335 0.32947	0.34243	0.34494	AVRG		0.34808		5.80098	
1-Chlorohexane	NE 0.23045	0.28084 0.25935	0.24384 0.26305	0.24810 0.27442	0.24355	0.26710	AVRG		0.25674		6.39033	
Chlorobenzene	NE 0.93816	0.96090 0.94626	1.02474 0.94168	0.99652 0.92552	1.00286	0.97411	AVRG		0.96786		3.50306	
1,1,1,2-Tetrachloroethane	NE 0.33475	0.33813 0.34379	0.30312 0.35090	0.32230 0.35020	0.31656	0.33414	AVRG		0.33265		4.80000	
Ethylbenzene	NE 0.45349	0.44932 0.47695	0.42798 0.48030	0.38496 0.47946	0.43441	0.46740	AVRG		0.45047		6.92422	
m,p-Xylenes	NE 0.56107	0.49705 0.59332	0.47095 0.59550	0.46613 0.59257	0.47186	0.54822	AVRG		0.53296		10.58600	
o-Xylene	NE 0.54530	0.51375 0.57414	0.46105 0.58153	0.45548 0.57622	0.49419	0.53695	AVRG		0.52651		9.19888	
Styrene	NE 0.89449	0.81868 0.95766	0.66693 0.96825	0.74091 0.94500	0.69822	0.82991	AVRG		0.83556		13.68101	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 6 / 11

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 0.23260	0.19493 0.26095	0.19245 0.26822	0.20896 0.26444	0.19978	0.21157	AVRG		0.22599		13.81919	
Isopropylbenzene	NE 1.29966	1.14173 1.39540	1.13317 1.38723	1.09443 1.38856	1.19733	1.34411	AVRG		1.26463		9.72168	
1,1,2,2-Tetrachloroethane	NE 0.86517	0.94934 0.88446	1.02444 0.87983	1.13699 0.85285	0.96171	0.90982	AVRG		0.94051		9.75227	
1,2,3-Trichloropropane	NE 0.78271	0.89588 0.82369	0.76851 0.84037	0.91659 0.83039	0.81959	0.76888	AVRG		0.82740		6.30706	
trans-1,4-Dichloro-2-butene	NE 0.05433	0.05261 0.06324	0.05796 0.06690	0.05335 0.06611	0.05527	0.04837	AVRG		0.05757		11.24480	*
n-Propylbenzene	NE 2.66761	2.34893 2.93371	2.29516 2.98954	2.26496 3.06453	2.35462	2.68484	AVRG		2.62266		12.16608	
Bromobenzene	NE 0.80219	0.83256 0.82248	0.87296 0.83564	0.91857 0.83486	0.83236	0.84108	AVRG		0.84363		3.98394	
1,3,5-Trimethylbenzene	NE 1.72613	1.71333 1.88842	1.73215 1.96460	1.69625 2.06354	1.68766	1.72132	AVRG		1.79927		7.64842	
2-Chlorotoluene	NE 1.83116	1.65439 1.87957	1.84359 1.87542	1.86405 1.87375	1.83620	1.93464	AVRG		1.84364		4.19843	
4-Chlorotoluene	NE 2.03659	1.80601 2.10132	1.92642 2.11273	2.12066 2.13399	2.01548	2.11322	AVRG		2.04071		5.42387	
tert-Butylbenzene	NE 1.72651	1.66206 1.87463	1.63607 1.89391	1.58431 1.94965	1.70142	1.87604	AVRG		1.76718		7.49680	
1,2,4-Trimethylbenzene	NE 1.70257	1.87283 1.83519	1.98426 1.91537	2.00872 2.01697	1.83192	1.77568	AVRG		1.88261		5.76159	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 7 / 11

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	%RSD or R ²	Q
	0.250	0.500	1.00	2.00	5.00	20.00						
	Level 7 50.0	Level 8 100.0	Level 9 150.0	Level 10 200.0								
sec-Butylbenzene	NE 2.18438	2.00057 2.46235	2.11593 2.51457	1.90597 2.60373	2.05445	2.32792	AVRG		2.24110		11.00553	
p-Isopropyltoluene	NE 1.76859	1.74598 2.03397	1.77727 2.13513	1.70832 2.25284	1.70523	1.77034	AVRG		1.87752		10.99191	
1,3-Dichlorobenzene	NE 1.34174	1.44494 1.39069	1.46902 1.40351	1.55334 1.41569	1.44971	1.42715	AVRG		1.43286		4.09348	
1,4-Dichlorobenzene	NE 1.40239	1.54178 1.43640	1.71276 1.45286	1.69155 1.45678	1.56931	1.48576	AVRG		1.52773		7.29827	
Benzyl Chloride	NE 234906	1867 573982	5481 988530	11203 1346925	22092	85763	LINR	0.06934	0.32121		0.99572	
n-Butylbenzene	NE 1.46534	1.58034 1.66824	1.52199 1.76126	1.45737 1.86929	1.51798	1.62397	AVRG		1.60731		8.65865	
1,2-Dichlorobenzene	NE 1.34667	1.37505 1.37717	1.58056 1.39037	1.62196 1.39656	1.41014	1.43132	AVRG		1.43664		6.73798	
1,2-Dibromo-3-Chloropropane	NE 0.13055	0.12905 0.14193	0.13125 0.15019	0.15055 0.15436	0.12496	0.12235	AVRG		0.13724		8.84952	
1,2,4-Trichlorobenzene	NE 0.92607	0.99711 0.97797	1.02603 1.01256	1.05277 1.03962	0.91403	0.94731	AVRG		0.98816		5.06669	
Hexachlorobutadiene	NE 0.34400	0.41409 0.38848	0.47350 0.41057	0.36363 0.43096	0.36197	0.40436	AVRG		0.39906		9.99191	
Naphthalene	NE 2.32218	2.00604 2.38330	2.45479 2.41879	2.35836 2.39671	2.05295	2.26528	AVRG		2.29538		7.00317	
1,2,3-Trichlorobenzene	NE 0.91575	0.89610 0.95078	1.01723 0.97037	1.09261 0.98955	0.91438	0.94752	AVRG		0.96603		6.32619	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 8 / 11

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 0.40659	0.56275 0.43291	0.47646 0.42120	0.45270 0.40047	0.44438	0.42507	AVRG		0.44695		11.03167	
Methyl Acrylate	NE 0.51803	0.64029 0.55501	0.52884 0.53794	0.45224 0.52785	0.49568	0.50330	AVRG		0.52880		9.67195	
n-Butanol	NE 0.01307	0.01415 0.01509	2.08859 0.01514	4.21587 0.01494	0.01247	0.01208	AVRG		0.71127		208	*
Cyclohexanone	NE 0.02875	0.03990 0.02946	0.03613 0.02809	0.02961 0.02880	0.03016	0.02808	AVRG		0.03100		13.36896	
1,4-Dioxane	0.02235 0.00659	0.01166 0.00691	0.01127 0.00671	0.01101 0.00625	0.00960	0.00693	AVRG		0.00993		49.04531	*
n-Hexane	NE 256401	2983 595793	4787 933406	7179 1358253	28289	131033	QUAD	0.00210	2.46538	-0.18460	0.99921	
Freon TF	NE 0.32170	0.35587 0.35856	0.27604 0.35800	0.26719 0.36926	0.34986	0.36574	AVRG		0.33580		11.58349	
Methyl Acetate	NE 0.37668	0.50232 0.40100	0.47241 0.38762	0.46924 0.37810	0.40980	0.39186	AVRG		0.42100		11.22802	
Methylcyclohexane	NE 0.63877	0.71717 0.77007	0.66486 0.77041	0.57666 0.75903	0.69680	0.64861	AVRG		0.69360		9.68871	
Isopropyl alcohol	NE 0.02926	0.03524 0.03162	0.03413 0.03087	0.04209 0.02976	0.03152	0.02969	AVRG		0.03269		12.43532	
Amyl alcohol	NE 0.00986	0.01197 0.01105	1.92102 0.01113	3.42130 0.01101	0.00863	0.00951	AVRG		0.60172		205	*
Allyl alcohol	NE 256401	2691 595793	4787 933406	7179 1358253	27611	131033	QUAD	0.05728	49.27793	-3.68010	0.99921	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 9 / 11

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
4-Methyl-2-pentanol	NE 0.06687	0.10161 0.07627	0.07347 0.07449	0.06147 0.07390	0.06954	0.07154	AVRG		0.07435		15.04325	
Tert-butyl alcohol	NE 592187	6757 1263261	16016 1948328	34487 2615413	66425	255911	LINR	-0.09917	0.04597		0.99942	
Diethyl ether	NE 0.32639	0.41853 0.34643	0.29113 0.34449	0.31214 0.33721	0.34912	0.31512	AVRG		0.33784		10.59316	
1,3-Butadiene	NE 0.48722	0.44026 0.50601	0.41436 0.49354	0.42154 0.49579	0.49134	0.51162	AVRG		0.47352		7.90782	
Cyclohexane	NE 384146	4345 872566	7781 1346053	8877 1948136	37840	190495	QUAD	0.00384	1.66261	-0.06851	0.99933	
Tetrahydrofuran	NE 124830	1846 246154	3378 364883	4068 488623	13490	48081	LINR	-0.04721	0.08627		0.99868	
alpha-Methylstyrene	NE 398013	3201 939505	6428 1521945	14955 2162870	33946	141914	LINR	0.07068	1.00922		0.99634	
Diisopropyl ether	NE 1.33854	1.62723 1.40873	1.35167 1.38423	1.35708 1.35239	1.43176	1.29604	AVRG		1.39419		6.88405	
Dichlorofluoromethane	NE 0.68369	1.14419 0.72055	154 0.71841	259 0.70435	0.74302	0.65918	AVRG		46.48926		203	*
Butyl acrylate	NE 0.56545	0.65141 0.62687	0.57943 0.64178	0.50180 0.63283	0.56456	0.55884	AVRG		0.59144		8.39860	
Dicyclopentadiene	NE 2.17722	2.29788 2.45924	3.10552 2.50496	2.30282 2.43925	2.47288	2.19129	AVRG		2.43901		11.40017	
1,2,3-Trimethylbenzene	NE 1.72212	2.16993 1.82789	2.16879 1.86297	1.86768 1.91009	2.05701	1.71103	AVRG		1.92195		9.02117	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 10 / 11

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
Ethanol	NE 83818	929 175232	2663 261491	4910 342926	9968	33180	LINR	-0.45661	0.00610		0.99807	
tert-Butyl formate	NE 0.35469	NE 0.39711	70.88590 0.40728	111 0.40312	0.37084	0.36100	AVRG		23.05896		188	*
3,3-Dimethyl-1-butanol	NE 0.03321	0.12053 0.03570	15.41396 0.03539	18.45449 0.03515	0.03977	0.03772	AVRG		3.80066		197	*
tert-Amyl methyl ether	NE 1.27072	2.14082 1.66952	303 1.69353	515 1.68414	1.51794	1.20622	AVRG		92.03003		203	*
tert-Butyl ethyl ether	NE 1.16135	1.66370 1.24096	249 1.23931	427 1.22143	1.20218	1.12101	AVRG		76.03857		204	*
tert-Amyl alcohol	NE 0.03547	0.04913 0.03971	7.08859 0.04073	11.12917 0.04031	0.03708	0.03610	AVRG		2.05514		201	*
Epichlorohydrin	NE 17348	NE 42530	230 78090	854 120896	2028	5384	QUAD	0.19276	210	-620	0.99786	*
Isoprene	NE 0.12271	0.17622 0.12050	24.46517 0.11801	42.70055 0.13763	0.11208	0.12455	AVRG		7.56416		204	*
n-Amyl acetate	NE 0.55364	NE 0.58593	NE 0.59354	211 0.58358	0.63545	0.57662	AVRG		30.68893		260	*
Isopropyl acetate	NE 0.98722	1.34246 1.04945	418 1.03674	509 1.02205	1.01129	0.99086	AVRG		104		198	*
n-Butyl acetate	NE 0.55036	0.55703 0.58437	0.53651 0.60799	0.60175 0.59915	0.53866	0.54802	AVRG		0.56932		5.06190	
Acetaldehyde	NE 0.06756	NE 0.07481	NE 0.07268	NE 0.07068	0.05587	0.07216	AVRG		0.06896		9.93199	*

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS23060280RunID
VOA9_437296

ICAL Start Date 06-JUN-2023 1115

ICAL End Date 06-JUN-2023 1541

ICAL Summary Page 11 / 11

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
Methyl Amyl Ketone	NE 0.66113	1.57193 0.70193	232 0.68889	332 0.68782	0.72364	0.69666	AVRG		63.26693		200	*
Dimethyl Disulfide	NE 275143	1341 843448	2841 1542342	4598 2303909	15263	75368	QUAD	0.09069	2.54687	-0.35667	0.99436	
2-Ethylhexyl Acrylate	NE 214955	2309 534360	4963 905239	8201 1300346	19373	70007	QUAD	0.03475	2.11188	-0.20750	0.99843	
1,2-Dichloroethylene (total)	NE 0.45707	0.49071 0.45603	0.42948 0.44777	0.42853 0.45077	0.46591	0.45312	AVRG		0.45327		4.12637	
Xylenes (total)	NE 0.53378	0.46723 0.57391	0.43600 0.57061	0.43592 0.57101	0.45257	0.49964	AVRG		0.50452		11.72066	
Dibromofluoromethane	NE 271537	3644 587291	5853 869167	10602 1189943	30229	119153	LINR	-0.00632	0.41704		0.99929	
1,2-Dichloroethane-d4	NE 303470	3795 630129	6027 944002	11855 1273587	34153	129564	LINR	-0.01366	0.44800		0.99930	
Toluene-d8	NE 1.07251	1.56295 1.11768	1.00002 1.06933	1.01159 1.04518	1.14526	1.16028	AVRG		1.13164		15.10726	
4-Bromofluorobenzene	NE 425877	5007 923899	8608 1355424	16728 1832443	49215	178335	LINR	-0.01813	0.43793		0.99886	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437296

Instrument ID VOA9.i ICAL Date 06-JUN-2023

Lab File ID U060616.D ICAL Time 1435

?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	49.07	98.15	80-120	
1,1,1-Trichloroeth	50.00	44.11	88.23	80-120	
1,1,2,2-Tetrachlor	50.00	44.15	88.32	80-120	
Freon TF	50.00	42.50	85.01	80-120	
Methyl Acetate	50.00	40.70	81.42	80-120	
Cyclohexane	50.00	42.07	84.15	80-120	
Methylcyclohexane	50.00	46.30	92.61	80-120	
Carbon Disulfide	100.00	93.13	93.14	80-120	
2-Hexanone	100.00	92.61	92.61	80-120	
1,1,2-Trichloroeth	50.00	45.65	91.32	80-120	
1,1-Dichloroethane	50.00	41.14	82.28	80-120	
1,1-Dichloroethene	50.00	43.45	86.92	80-120	
1,1-Dichloropropen	50.00	45.66	91.33	80-120	
1,2,3-Trichloroben	50.00	47.31	94.63	80-120	
1,2,3-Trichloropro	50.00	45.92	91.85	80-120	
1,2,4-Trichloroben	50.00	47.57	95.14	80-120	
1,2,4-Trimethylben	50.00	47.79	95.60	80-120	
1,2-Dibromo-3-Chlo	50.00	47.57	95.14	80-120	
1,2-Dibromoethane	50.00	45.60	91.22	80-120	
Acrolein	100.00	87.41	87.42	80-120	
Acrylonitrile	100.00	91.25	91.25	80-120	
1,2-Dichlorobenzen	50.00	45.26	90.54	80-120	
1,2-Dichloroethane	50.00	44.18	88.38	80-120	
1,2-Dichloropropan	50.00	45.23	90.47	80-120	
1,3,5-Trimethylben	50.00	48.21	96.43	80-120	
1,3-Dichlorobenzen	50.00	46.22	92.45	80-120	
1,3-Dichloropropan	50.00	47.41	94.82	80-120	
1,4-Dichlorobenzen	50.00	44.52	89.05	80-120	
1-Chlorohexane	50.00	40.85	81.71	80-120	
2,2-Dichloropropan	50.00	45.93	91.87	80-120	
2-Butanone	100.00	87.11	87.11	80-120	
2-Chloroethylvinyl	100.00	82.24	82.24	80-120	
2-Chlorotoluene	50.00	46.75	93.51	80-120	
4-Chlorotoluene	50.00	48.40	96.80	80-120	





Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437296

Instrument ID VOA9.i ICAL Date 06-JUN-2023

Lab File ID U060616.D ICAL Time 1435

?VAL? ?VAL? Conc Units ug/L

Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	48.52	97.04	80-120	
4-Methyl-2-Pentano	100.00	97.72	97.73	80-120	
Acetone	100.00	95.43	95.43	80-120	
Acetonitrile	500.00	437.35	87.47	80-120	
Allyl Chloride	50.00	43.46	86.94	80-120	
Benzene	50.00	46.31	92.63	80-120	
Bromobenzene	50.00	45.71	91.42	80-120	
Bromochloromethane	50.00	44.93	89.87	80-120	
Bromodichlorometha	50.00	47.72	95.44	80-120	
Bromoform	50.00	51.02	102.05	80-120	
Bromomethane	50.00	55.03	110.08	80-120	
Carbon Tetrachlori	50.00	44.38	88.77	80-120	
Chlorobenzene	50.00	45.99	91.98	80-120	
Chloroethane	50.00	43.12	86.25	80-120	
Chloroform	50.00	43.97	87.95	80-120	
Chloromethane	50.00	40.39	80.80	80-120	
Chloroprene	50.00	42.86	85.72	80-120	
cis-1,2-Dichloroet	50.00	44.27	88.55	80-120	
cis-1,3-Dichloropr	50.00	44.95	89.92	80-120	
Dibromochlorometha	50.00	51.79	103.58	80-120	
Dibromomethane	50.00	45.22	90.46	80-120	
Dichlorodifluorome	50.00	43.44	86.88	80-120	
Ethylbenzene	50.00	48.34	96.69	80-120	
Ethyl Methacrylate	50.00	48.75	97.51	80-120	
Iodomethane	100.00	85.89	85.90	80-120	
Isobutyl Alcohol	1000.00	1063.31	106.33	70-130	
Propionitrile	500.00	447.35	89.47	70-130	
Hexachlorobutadien	50.00	42.50	85.02	80-120	
Isopropylbenzene	50.00	48.91	97.84	80-120	
m,p-Xylenes	100.00	101.18	101.18	80-120	
Methyl tert-butyl	50.00	45.15	90.31	80-120	
Methylene Chloride	50.00	45.61	91.23	80-120	
Methacrylonitrile	50.00	47.68	95.38	80-120	
Methyl Methacrylat	50.00	47.58	95.17	80-120	





Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437296

Instrument ID VOA9.i ICAL Date 06-JUN-2023

Lab File ID U060616.D ICAL Time 1435

?VAL? ?VAL? Conc Units ug/L

Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	45.82	91.65	80-120	
n-Propylbenzene	50.00	49.51	99.02	80-120	
Naphthalene	50.00	51.00	102.01	80-120	
o-Xylene	50.00	50.13	100.28	80-120	
sec-Butylbenzene	50.00	46.73	93.47	80-120	
Styrene	50.00	52.92	105.84	80-120	
tert-Butylbenzene	50.00	46.65	93.31	80-120	
Tetrachloroethene	50.00	45.52	91.06	80-120	
Toluene	50.00	48.10	96.21	80-120	
trans-1,2-Dichloro	50.00	45.42	90.85	80-120	
trans-1,3-Dichloro	50.00	44.23	88.46	80-120	
trans-1,4-Dichloro	50.00	54.24	108.49	80-120	
Trichloroethene	50.00	44.64	89.28	80-120	
Trichlorofluoromet	50.00	43.95	87.91	80-120	
Vinyl Acetate	100.00	93.22	93.22	80-120	
Vinyl Chloride	50.00	44.59	89.20	80-120	
1,2-Dichloroethyle	100.00	89.70	89.70	80-120	
Xylenes (total)	150.00	151.32	100.88	80-120	
1,4-Dioxane	1000.00	611.64	61.16*	80-120	
Dibromofluorometha	50.00	48.55	97.12	71-125	
1,2-Dichloroethane	50.00	47.70	95.40	70-125	
Toluene-d8	50.00	51.59	103.20	75-125	
4-Bromofluorobenze	50.00	51.30	102.61	72-125	





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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Instrument ID VOA9.i Injection Date 08-JUN-2023 1126
 Lab File ID U060803.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	45.85396	0.42360	0.100	8.29209	20.0	Linear	
Chloromethane	50.0	44.63913	0.67537	0.100	10.72174	20.0	Linear	
Vinyl Chloride	0.52887	0.50478	0.50478	0.100	4.55510	20.0	Averaged	
Bromomethane	50.0	52.22097	0.28360	0.100	-4.44195	20.0	Linear	
Chloroethane	0.35626	0.31666	0.31666	0.100	11.11768	20.0	Averaged	
Trichlorofluoromethane	0.60742	0.58579	0.58579	0.100	3.56151	20.0	Averaged	
Acrolein	0.02654	0.02326	0.02326	0.010	12.33846	20.0	Averaged	
Acetone	100	98.82453	0.16981	0.100	1.17547	20.0	Linear	
1,1-Dichloroethene	0.37953	0.35456	0.35456	0.100	6.57853	20.0	Averaged	
Iodomethane	100	98.60403	0.29409	0.100	1.39597	20.0	Quadratic	
Acrylonitrile	0.18542	0.17947	0.17947	0.050	3.21248	20.0	Averaged	
Methylene Chloride	50.0	47.81359	0.43644	0.100	4.37283	20.0	Linear	
Methyl tert-butyl ether	1.16385	1.09513	1.09513	0.100	5.90464	20.0	Averaged	
Carbon Disulfide	1.01461	1.00163	1.00163	0.100	1.27992	20.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.39539	0.39539	0.100	4.20481	20.0	Averaged	
Vinyl Acetate	1.25818	1.22124	1.22124	0.010	2.93615	20.0	Averaged	
1,1-Dichloroethane	0.78439	0.69716	0.69716	0.200	11.12113	20.0	Averaged	
2-Butanone	0.22797	0.20450	0.20450	0.100	10.29598	20.0	Averaged	
2,2-Dichloropropane	50.0	49.96661	0.51826	0.100	0.06679	20.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.45724	0.45724	0.100	7.40005	20.0	Averaged	
Chloroform	0.81639	0.72868	0.72868	0.200	10.74374	20.0	Averaged	
Bromochloromethane	0.27621	0.24361	0.24361	0.100	11.80348	20.0	Averaged	
Dibromofluoromethane	50.0	50.23551	0.42165	0.100	-0.47102	20.0	Linear	
1,1,1-Trichloroethane	0.62223	0.59216	0.59216	0.100	4.83196	20.0	Averaged	
1,1-Dichloropropene	0.36644	0.37048	0.37048	0.100	-1.10216	20.0	Averaged	
1,2-Dichloroethane	0.43276	0.41027	0.41027	0.100	5.19707	20.0	Averaged	
Carbon Tetrachloride	0.33660	0.33697	0.33697	0.100	-0.11017	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	48.43301	0.44008	0.100	3.13398	20.0	Linear	
Benzene	1.20483	1.18381	1.18381	0.500	1.74435	20.0	Averaged	
Trichloroethene	0.34921	0.34145	0.34145	0.200	2.22159	20.0	Averaged	
Bromodichloromethane	0.37583	0.38054	0.38054	0.200	-1.25466	20.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00735	0.00735	0.001	19.11800	20.0	Averaged	
1,2-Dichloropropane	0.32169	0.31242	0.31242	0.100	2.88053	20.0	Averaged	
Dibromomethane	0.20554	0.19830	0.19830	0.100	3.52339	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Instrument ID VOA9.i Injection Date 08-JUN-2023 1126
 Lab File ID U060803.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.36248	0.36248	0.100	0.44540	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	46.98428	0.47195	0.200	6.03144	20.0	Linear	
Toluene-d8	1.13164	1.14974	1.14974	0.100	-1.59952	20.0	Averaged	
Toluene	1.35612	1.35109	1.35109	0.400	0.37141	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	47.36233	0.39939	0.100	5.27534	20.0	Linear	
2-Hexanone	0.25357	0.23611	0.23611	0.100	6.88292	20.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.26254	0.26254	0.100	6.95699	20.0	Averaged	
1,3-Dichloropropane	0.57650	0.55579	0.55579	0.100	3.59184	20.0	Averaged	
Dibromochloromethane	0.33480	0.35547	0.35547	0.100	-6.17552	20.0	Averaged	
Tetrachloroethene	0.33041	0.32102	0.32102	0.200	2.84067	20.0	Averaged	
1,2-Dibromoethane	0.34808	0.33136	0.33136	0.100	4.80346	20.0	Averaged	
1-Chlorohexane	0.25674	0.23718	0.23718	0.100	7.62029	20.0	Averaged	
Chlorobenzene	0.96786	0.93229	0.93229	0.500	3.67529	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.33320	0.33320	0.100	-0.16398	20.0	Averaged	
Ethylbenzene	0.45047	0.45826	0.45826	0.100	-1.72899	20.0	Averaged	
m,p-Xylenes	0.53296	0.56218	0.56218	0.100	-5.48279	20.0	Averaged	
o-Xylene	0.52651	0.54933	0.54933	0.300	-4.33295	20.0	Averaged	
Styrene	0.83556	0.93310	0.93310	0.300	-11.67351	20.0	Averaged	
Bromoform	0.22599	0.24103	0.24103	0.100	-6.65564	20.0	Averaged	
Isopropylbenzene	1.26463	1.30714	1.30714	0.100	-3.36199	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.86225	0.86225	0.300	8.32169	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.93179	0.46279	0.100	-3.86357	20.0	Linear	
1,2,3-Trichloropropane	0.82740	0.77587	0.77587	0.100	6.22767	20.0	Averaged	
n-Propylbenzene	2.62266	2.71186	2.71186	0.100	-3.40122	20.0	Averaged	
Bromobenzene	0.84363	0.80202	0.80202	0.100	4.93240	20.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.76827	1.76827	0.100	1.72253	20.0	Averaged	
2-Chlorotoluene	1.84364	1.81602	1.81602	0.100	1.49847	20.0	Averaged	
4-Chlorotoluene	2.04071	2.05272	2.05272	0.100	-0.58830	20.0	Averaged	
tert-Butylbenzene	1.76718	1.71195	1.71195	0.100	3.12517	20.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.80737	1.80737	0.100	3.99690	20.0	Averaged	
sec-Butylbenzene	2.24110	2.21576	2.21576	0.100	1.13066	20.0	Averaged	
p-Isopropyltoluene	1.87752	1.86833	1.86833	0.100	0.48931	20.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.35574	1.35574	0.600	5.38262	20.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.41540	1.41540	0.400	7.35315	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Instrument ID VOA9.i Injection Date 08-JUN-2023 1126
 Lab File ID U060803.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butylbenzene	1.60731	1.55801	1.55801	0.500	3.06717	20.0	Averaged	
1,2-Dichlorobenzene	1.43664	1.35176	1.35176	0.400	5.90861	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.13258	0.13258	0.050	3.40091	20.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.95268	0.95268	0.200	3.59041	20.0	Averaged	
Hexachlorobutadiene	0.39906	0.37456	0.37456	0.100	6.14032	20.0	Averaged	
Naphthalene	2.29538	2.35927	2.35927	0.200	-2.78345	20.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.91552	0.91552	0.100	5.22871	20.0	Averaged	
1,2-Dichloroethylene (total	0.45327	0.42632	0.42632	0.200	5.94524	20.0	Averaged	
Xylenes (total)	0.50452	0.53274	0.53274	0.100	-5.59345	20.0	Averaged	
1,4-Dioxane	0.00993	0.00627	0.00627	0.001	36.81696	20.0	Averaged	<-
Cyclohexane	50.0	47.42562	0.58215	0.100	5.14876	20.0	Quadratic	
Freon TF	0.33580	0.32542	0.32542	0.100	3.09310	20.0	Averaged	
1,3-Butadiene	0.47352	0.46864	0.46864	0.100	1.03127	20.0	Averaged	
Methylcyclohexane	0.69360	0.71442	0.71442	0.100	-3.00164	20.0	Averaged	
Methyl Acetate	0.42100	0.37326	0.37326	0.100	11.34096	20.0	Averaged	
Tert-butyl alcohol	1000	956	0.04417	0.005	4.40771	20.0	Linear	
Isopropyl alcohol	0.03269	0.02871	0.02871	0.005	12.16158	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.06058	0.06058	0.050	-5.23285	20.0	Averaged	
Isobutyl Alcohol	0.06496	0.07299	0.07299	0.005	-12.35415	20.0	Averaged	
Acetonitrile	0.05413	0.05123	0.05123	0.005	5.35785	20.0	Averaged	
Allyl Chloride	1.29812	1.21148	1.21148	0.100	6.67460	20.0	Averaged	
Methacrylonitrile	0.29541	0.28640	0.28640	0.100	3.05122	20.0	Averaged	
Methyl Methacrylate	0.42991	0.42158	0.42158	0.100	1.93711	20.0	Averaged	
Propionitrile	0.07225	0.06577	0.06577	0.010	8.96587	20.0	Averaged	
n-Hexane	50.0	49.81030	0.41620	0.100	0.37941	20.0	Quadratic	
Acetaldehyde	0.06896	++++	1.282e+66	0.001	++++	20.0	Averaged	<-
Methyl Acrylate	0.52880	0.49023	0.49023	0.100	7.29273	20.0	Averaged	
Dimethyl Disulfide	50.0	43.40362	0.31953	0.020	13.19276	20.0	Quadratic	
Chloroprene	0.15947	0.14955	0.14955	0.100	6.22371	20.0	Averaged	
Ethyl Methacrylate	0.43830	0.43873	0.43873	0.100	-0.09819	20.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.81785	1.81785	0.100	5.41606	20.0	Averaged	
Ethanol	1000	961	0.00600	0.001	3.86488	20.0	Linear	
Dicyclopentadiene	2.43901	2.40093	2.40093	0.100	1.56104	20.0	Averaged	
alpha-Methylstyrene	50.0	45.93452	0.85583	0.100	8.13096	20.0	Linear	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Instrument ID VOA9.i Injection Date 08-JUN-2023 1126
 Lab File ID U060803.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Tetrahydrofuran	100	88.69281	0.07855	0.001	11.30719	20.0	Linear	
Diisopropyl ether	1.39419	1.30963	1.30963	0.100	6.06473	20.0	Averaged	
4-Methyl-2-pentanol	0.07435	0.06788	0.06788	0.005	8.70563	20.0	Averaged	
Allyl alcohol	1000	996	0.02081	0.004	0.35466	20.0	Quadratic	
Benzyl Chloride	50.0	48.77755	0.29108	0.010	2.44491	20.0	Linear	
Butyl acrylate	0.59144	0.57818	0.57818	0.100	2.24212	20.0	Averaged	
Diethyl ether	0.33784	0.32058	0.32058	0.100	5.10885	20.0	Averaged	
2-Ethylhexyl Acrylate	50.0	51.98689	0.50048	0.100	-3.97378	20.0	Quadratic	
Cyclohexanone	0.03100	0.02886	0.02886	0.005	6.90676	20.0	Averaged	
Ethyl Acetate	0.44695	0.49656	0.49656	0.100	-11.10011	20.0	Averaged	
n-Butyl acetate	0.56932	0.55554	0.55554	0.100	2.42007	20.0	Averaged	
Epichlorohydrin	200	157	0.00368	0.001	21.26191	20.0	Quadratic	<-





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Instrument ID VOA9.i Injection Date 08-JUN-2023 2046
 Lab File ID U060828.DICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	53.29727	0.49249	0.100	-6.59455	50.0	Linear	
Chloromethane	50.0	53.33191	0.80303	0.100	-6.66382	50.0	Linear	
Vinyl Chloride	0.52887	0.60179	0.60179	0.100	-13.78758	50.0	Averaged	
Bromomethane	50.0	58.22225	0.31508	0.100	-16.44451	50.0	Linear	
Chloroethane	0.35626	0.36040	0.36040	0.100	-1.16093	50.0	Averaged	
Trichlorofluoromethane	0.60742	0.71280	0.71280	0.100	-17.34830	50.0	Averaged	
Acrolein	0.02654	0.02199	0.02199	0.010	17.12278	50.0	Averaged	
Acetone	100	100	0.17207	0.100	-0.21336	50.0	Linear	
1,1-Dichloroethene	0.37953	0.40192	0.40192	0.100	-5.89878	50.0	Averaged	
Iodomethane	100	85.16185	0.24756	0.100	14.83815	50.0	Quadratic	
Acrylonitrile	0.18542	0.19588	0.19588	0.050	-5.63986	50.0	Averaged	
Methylene Chloride	50.0	53.92552	0.49106	0.100	-7.85104	50.0	Linear	
Methyl tert-butyl ether	1.16385	1.18109	1.18109	0.100	-1.48170	50.0	Averaged	
Carbon Disulfide	1.01461	1.13139	1.13139	0.100	-11.51004	50.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.42445	0.42445	0.100	-2.83587	50.0	Averaged	
Vinyl Acetate	1.25818	1.28229	1.28229	0.010	-1.91611	50.0	Averaged	
1,1-Dichloroethane	0.78439	0.79172	0.79172	0.200	-0.93388	50.0	Averaged	
2-Butanone	0.22797	0.21414	0.21414	0.100	6.06485	50.0	Averaged	
2,2-Dichloropropane	50.0	46.56002	0.48264	0.100	6.87995	50.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.49630	0.49630	0.100	-0.51025	50.0	Averaged	
Chloroform	0.81639	0.84553	0.84553	0.200	-3.57026	50.0	Averaged	
Bromochloromethane	0.27621	0.27584	0.27584	0.100	0.13441	50.0	Averaged	
Dibromofluoromethane	50.0	53.02476	0.44491	0.100	-6.04952	50.0	Linear	
1,1,1-Trichloroethane	0.62223	0.67641	0.67641	0.100	-8.70803	50.0	Averaged	
1,1-Dichloropropene	0.36644	0.39385	0.39385	0.100	-7.48019	50.0	Averaged	
1,2-Dichloroethane	0.43276	0.42026	0.42026	0.100	2.88945	50.0	Averaged	
Carbon Tetrachloride	0.33660	0.36762	0.36762	0.100	-9.21642	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	52.91768	0.48026	0.100	-5.83536	50.0	Linear	
Benzene	1.20483	1.24654	1.24654	0.500	-3.46244	50.0	Averaged	
Trichloroethene	0.34921	0.35695	0.35695	0.200	-2.21554	50.0	Averaged	
Bromodichloromethane	0.37583	0.38355	0.38355	0.200	-2.05304	50.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00559	0.00559	0.001	38.46240	50.0	Averaged	
1,2-Dichloropropane	0.32169	0.32184	0.32184	0.100	-0.04668	50.0	Averaged	
Dibromomethane	0.20554	0.20278	0.20278	0.100	1.34265	50.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Instrument ID VOA9.i Injection Date 08-JUN-2023 2046
 Lab File ID U060828.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.36818	0.36818	0.100	-1.11848	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	45.34822	0.45481	0.200	9.30356	50.0	Linear	
Toluene-d8	1.13164	1.19060	1.19060	0.100	-5.21019	50.0	Averaged	
Toluene	1.35612	1.44426	1.44426	0.400	-6.49905	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	44.07296	0.37042	0.100	11.85407	50.0	Linear	
2-Hexanone	0.25357	0.23559	0.23559	0.100	7.09181	50.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.27927	0.27927	0.100	1.02796	50.0	Averaged	
1,3-Dichloropropane	0.57650	0.58849	0.58849	0.100	-2.08053	50.0	Averaged	
Dibromochloromethane	0.33480	0.36760	0.36760	0.100	-9.79814	50.0	Averaged	
Tetrachloroethene	0.33041	0.35062	0.35062	0.200	-6.11848	50.0	Averaged	
1,2-Dibromoethane	0.34808	0.34280	0.34280	0.100	1.51722	50.0	Averaged	
1-Chlorohexane	0.25674	0.25358	0.25358	0.100	1.23120	50.0	Averaged	
Chlorobenzene	0.96786	0.96013	0.96013	0.500	0.79920	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.35328	0.35328	0.100	-6.20039	50.0	Averaged	
Ethylbenzene	0.45047	0.47939	0.47939	0.100	-6.41954	50.0	Averaged	
m,p-Xylenes	0.53296	0.58637	0.58637	0.100	-10.02091	50.0	Averaged	
o-Xylene	0.52651	0.56424	0.56424	0.300	-7.16547	50.0	Averaged	
Styrene	0.83556	0.92562	0.92562	0.300	-10.77782	50.0	Averaged	
Bromoform	0.22599	0.23745	0.23745	0.100	-5.07161	50.0	Averaged	
Isopropylbenzene	1.26463	1.39831	1.39831	0.100	-10.57119	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.87367	0.87367	0.300	7.10750	50.0	Averaged	
4-Bromofluorobenzene	50.0	51.63447	0.46019	0.100	-3.26895	50.0	Linear	
1,2,3-Trichloropropane	0.82740	0.77300	0.77300	0.100	6.57503	50.0	Averaged	
n-Propylbenzene	2.62266	2.80831	2.80831	0.100	-7.07870	50.0	Averaged	
Bromobenzene	0.84363	0.82682	0.82682	0.100	1.99359	50.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.85608	1.85608	0.100	-3.15783	50.0	Averaged	
2-Chlorotoluene	1.84364	1.91484	1.91484	0.100	-3.86189	50.0	Averaged	
4-Chlorotoluene	2.04071	2.11355	2.11355	0.100	-3.56920	50.0	Averaged	
tert-Butylbenzene	1.76718	1.88854	1.88854	0.100	-6.86763	50.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.82133	1.82133	0.100	3.25519	50.0	Averaged	
sec-Butylbenzene	2.24110	2.44527	2.44527	0.100	-9.11071	50.0	Averaged	
p-Isopropyltoluene	1.87752	1.98417	1.98417	0.100	-5.68071	50.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.39594	1.39594	0.600	2.57664	50.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.43702	1.43702	0.400	5.93752	50.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Instrument ID VOA9.i Injection Date 08-JUN-2023 2046
 Lab File ID U060828.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butylbenzene	1.60731	1.62445	1.62445	0.500	-1.06647	50.0	Averaged	
1,2-Dichlorobenzene	1.43664	1.39086	1.39086	0.400	3.18658	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.13446	0.13446	0.050	2.03007	50.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.95238	0.95238	0.200	3.62118	50.0	Averaged	
Hexachlorobutadiene	0.39906	0.39493	0.39493	0.100	1.03515	50.0	Averaged	
Naphthalene	2.29538	2.31247	2.31247	0.200	-0.74472	50.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.93937	0.93937	0.100	2.76006	50.0	Averaged	
1,2-Dichloroethylene (total	0.45327	0.46038	0.46038	0.200	-1.56911	50.0	Averaged	
Xylenes (total)	0.50452	0.53122	0.53122	0.100	-5.29165	50.0	Averaged	
1,4-Dioxane	0.00993	0.00656	0.00656	0.001	33.95927	50.0	Averaged	
Cyclohexane	50.0	56.23787	0.69404	0.100	-12.47574	50.0	Quadratic	
Freon TF	0.33580	0.38069	0.38069	0.100	-13.36671	50.0	Averaged	
1,3-Butadiene	0.47352	0.52845	0.52845	0.100	-11.59940	50.0	Averaged	
Methylcyclohexane	0.69360	0.73176	0.73176	0.100	-5.50239	50.0	Averaged	
Methyl Acetate	0.42100	0.40413	0.40413	0.100	4.00898	50.0	Averaged	
Tert-butyl alcohol	1000	983	0.04541	0.005	1.70674	50.0	Linear	
Isopropyl alcohol	0.03269	0.03096	0.03096	0.005	5.28332	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.05400	0.05400	0.050	6.20518	50.0	Averaged	
Isobutyl Alcohol	0.06496	0.07633	0.07633	0.005	-17.49624	50.0	Averaged	
Acetonitrile	0.05413	0.05688	0.05688	0.005	-5.06703	50.0	Averaged	
Allyl Chloride	1.29812	1.32305	1.32305	0.100	-1.92036	50.0	Averaged	
Methacrylonitrile	0.29541	0.31389	0.31389	0.100	-6.25620	50.0	Averaged	
Methyl Methacrylate	0.42991	0.45553	0.45553	0.100	-5.95891	50.0	Averaged	
Propionitrile	0.07225	0.07214	0.07214	0.010	0.15265	50.0	Averaged	
n-Hexane	50.0	53.09363	0.44467	0.100	-6.18726	50.0	Quadratic	
Acetaldehyde	0.06896	++++	1.282e+66	0.001	++++	50.0	Averaged	<-
Methyl Acrylate	0.52880	0.56055	0.56055	0.100	-6.00419	50.0	Averaged	
Dimethyl Disulfide	50.0	42.65353	0.31307	0.020	14.69295	50.0	Quadratic	
Chloroprene	0.15947	0.17677	0.17677	0.100	-10.84433	50.0	Averaged	
Ethyl Methacrylate	0.43830	0.44377	0.44377	0.100	-1.24809	50.0	Averaged	
1,2,3-Trimethylbenzene	1.92195	1.82011	1.82011	0.100	5.29876	50.0	Averaged	
Ethanol	1000	1006	0.00628	0.001	-0.64237	50.0	Linear	
Dicyclopentadiene	2.43901	2.43450	2.43450	0.100	0.18487	50.0	Averaged	
alpha-Methylstyrene	50.0	46.62176	0.86970	0.100	6.75647	50.0	Linear	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Instrument ID VOA9.i Injection Date 08-JUN-2023 2046
 Lab File ID U060828.DICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Tetrahydrofuran	100	101	0.08918	0.001	-1.01137	50.0	Linear	
Diisopropyl ether	1.39419	1.39467	1.39467	0.100	-0.03491	50.0	Averaged	
4-Methyl-2-pentanol	0.07435	0.06355	0.06355	0.005	14.53250	50.0	Averaged	
Allyl alcohol	1000	1062	0.02223	0.004	-6.20924	50.0	Quadratic	
Benzyl Chloride	50.0	32.18292	0.18448	0.010	35.63415	50.0	Linear	
Butyl acrylate	0.59144	0.57442	0.57442	0.100	2.87724	50.0	Averaged	
Diethyl ether	0.33784	0.34046	0.34046	0.100	-0.77496	50.0	Averaged	
2-Ethylhexyl Acrylate	50.0	46.21055	0.44021	0.100	7.57890	50.0	Quadratic	
Cyclohexanone	0.03100	0.02261	0.02261	0.005	27.06155	50.0	Averaged	
Ethyl Acetate	0.44695	0.53742	0.53742	0.100	-20.24294	50.0	Averaged	
n-Butyl acetate	0.56932	++++	1.282e+66	0.100	++++	50.0	Averaged	<-
Epichlorohydrin	++++	++++	1.282e+66	0.001	++++	50.0	Quadratic	<-





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Instrument ID VOA9.i Injection Date 09-JUN-2023 1104
 Lab File ID U060903.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	41.95813	0.38755	0.100	16.08374	20.0	Linear	
Chloromethane	50.0	41.86750	0.63467	0.100	16.26499	20.0	Linear	
Vinyl Chloride	0.52887	0.47042	0.47042	0.100	11.05282	20.0	Averaged	
Bromomethane	50.0	48.47748	0.26396	0.100	3.04504	20.0	Linear	
Chloroethane	0.35626	0.29930	0.29930	0.100	15.98987	20.0	Averaged	
Trichlorofluoromethane	0.60742	0.55461	0.55461	0.100	8.69351	20.0	Averaged	
Acrolein	0.02654	0.02364	0.02364	0.010	10.91046	20.0	Averaged	
Acetone	100	111	0.19037	0.100	-11.47948	20.0	Linear	
1,1-Dichloroethene	0.37953	0.32445	0.32445	0.100	14.51317	20.0	Averaged	
Iodomethane	100	98.13290	0.29244	0.100	1.86710	20.0	Quadratic	
Acrylonitrile	0.18542	0.16893	0.16893	0.050	8.89480	20.0	Averaged	
Methylene Chloride	50.0	44.97576	0.41108	0.100	10.04847	20.0	Linear	
Methyl tert-butyl ether	1.16385	1.06386	1.06386	0.100	8.59128	20.0	Averaged	
Carbon Disulfide	1.01461	0.90809	0.90809	0.100	10.49875	20.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.35589	0.35589	0.100	13.77448	20.0	Averaged	
Vinyl Acetate	1.25818	1.21583	1.21583	0.010	3.36579	20.0	Averaged	
1,1-Dichloroethane	0.78439	0.65300	0.65300	0.200	16.75046	20.0	Averaged	
2-Butanone	0.22797	0.20658	0.20658	0.100	9.38136	20.0	Averaged	
2,2-Dichloropropane	50.0	45.98916	0.47668	0.100	8.02169	20.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.43615	0.43615	0.100	11.67157	20.0	Averaged	
Chloroform	0.81639	0.71540	0.71540	0.200	12.36943	20.0	Averaged	
Bromochloromethane	0.27621	0.23147	0.23147	0.100	16.19636	20.0	Averaged	
Dibromofluoromethane	50.0	48.25656	0.40514	0.100	3.48687	20.0	Linear	
1,1,1-Trichloroethane	0.62223	0.54741	0.54741	0.100	12.02346	20.0	Averaged	
1,1-Dichloropropene	0.36644	0.33933	0.33933	0.100	7.39739	20.0	Averaged	
1,2-Dichloroethane	0.43276	0.40445	0.40445	0.100	6.54317	20.0	Averaged	
Carbon Tetrachloride	0.33660	0.30166	0.30166	0.100	10.37932	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	47.41734	0.43098	0.100	5.16531	20.0	Linear	
Benzene	1.20483	1.12234	1.12234	0.500	6.84616	20.0	Averaged	
Trichloroethene	0.34921	0.31732	0.31732	0.200	9.13343	20.0	Averaged	
Bromodichloromethane	0.37583	0.36786	0.36786	0.200	2.11954	20.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00748	0.00748	0.001	17.69647	20.0	Averaged	
1,2-Dichloropropane	0.32169	0.30355	0.30355	0.100	5.63927	20.0	Averaged	
Dibromomethane	0.20554	0.19222	0.19222	0.100	6.48228	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Instrument ID VOA9.i Injection Date 09-JUN-2023 1104
 Lab File ID U060903.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.36308	0.36308	0.100	0.28121	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	44.73645	0.44841	0.200	10.52710	20.0	Linear	
Toluene-d8	1.13164	1.14891	1.14891	0.100	-1.52541	20.0	Averaged	
Toluene	1.35612	1.29090	1.29090	0.400	4.80942	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	44.72189	0.37613	0.100	10.55623	20.0	Linear	
2-Hexanone	0.25357	0.24301	0.24301	0.100	4.16190	20.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.25976	0.25976	0.100	7.94138	20.0	Averaged	
1,3-Dichloropropane	0.57650	0.54912	0.54912	0.100	4.74949	20.0	Averaged	
Dibromochloromethane	0.33480	0.34893	0.34893	0.100	-4.22000	20.0	Averaged	
Tetrachloroethene	0.33041	0.29482	0.29482	0.200	10.77120	20.0	Averaged	
1,2-Dibromoethane	0.34808	0.32695	0.32695	0.100	6.07069	20.0	Averaged	
1-Chlorohexane	0.25674	0.20868	0.20868	0.100	18.72240	20.0	Averaged	
Chlorobenzene	0.96786	0.90258	0.90258	0.500	6.74455	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.32253	0.32253	0.100	3.04237	20.0	Averaged	
Ethylbenzene	0.45047	0.43154	0.43154	0.100	4.20287	20.0	Averaged	
m,p-Xylenes	0.53296	0.53027	0.53027	0.100	0.50597	20.0	Averaged	
o-Xylene	0.52651	0.52743	0.52743	0.300	-0.17350	20.0	Averaged	
Styrene	0.83556	0.89251	0.89251	0.300	-6.81546	20.0	Averaged	
Bromoform	0.22599	0.23858	0.23858	0.100	-5.57192	20.0	Averaged	
Isopropylbenzene	1.26463	1.20040	1.20040	0.100	5.07826	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.85810	0.85810	0.300	8.76232	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.79415	0.46159	0.100	-3.58830	20.0	Linear	
1,2,3-Trichloropropane	0.82740	0.77193	0.77193	0.100	6.70457	20.0	Averaged	
n-Propylbenzene	2.62266	2.49944	2.49944	0.100	4.69807	20.0	Averaged	
Bromobenzene	0.84363	0.79006	0.79006	0.100	6.35025	20.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.64792	1.64792	0.100	8.41150	20.0	Averaged	
2-Chlorotoluene	1.84364	1.75622	1.75622	0.100	4.74197	20.0	Averaged	
4-Chlorotoluene	2.04071	1.96449	1.96449	0.100	3.73519	20.0	Averaged	
tert-Butylbenzene	1.76718	1.57846	1.57846	0.100	10.67902	20.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.72259	1.72259	0.100	8.50015	20.0	Averaged	
sec-Butylbenzene	2.24110	2.01043	2.01043	0.100	10.29241	20.0	Averaged	
p-Isopropyltoluene	1.87752	1.72608	1.72608	0.100	8.06570	20.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.30961	1.30961	0.600	8.60201	20.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.36464	1.36464	0.400	10.67557	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Instrument ID VOA9.i Injection Date 09-JUN-2023 1104
 Lab File ID U060903.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butylbenzene	1.60731	1.40941	1.40941	0.500	12.31237	20.0	Averaged	
1,2-Dichlorobenzene	1.43664	1.30712	1.30712	0.400	9.01559	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.12881	0.12881	0.050	6.14181	20.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.90629	0.90629	0.200	8.28523	20.0	Averaged	
Hexachlorobutadiene	0.39906	0.34513	0.34513	0.100	13.51386	20.0	Averaged	
Naphthalene	2.29538	2.32729	2.32729	0.200	-1.39006	20.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.88190	0.88190	0.100	8.70870	20.0	Averaged	
1,2-Dichloroethylene (total	0.45327	0.39602	0.39602	0.200	12.62903	20.0	Averaged	
Xylenes (total)	0.50452	0.49754	0.49754	0.100	1.38312	20.0	Averaged	
1,4-Dioxane	0.00993	0.00622	0.00622	0.001	37.35004	20.0	Averaged	<-
Cyclohexane	50.0	40.31760	0.49269	0.100	19.36479	20.0	Quadratic	
Freon TF	0.33580	0.28979	0.28979	0.100	13.70409	20.0	Averaged	
1,3-Butadiene	0.47352	0.43044	0.43044	0.100	9.09827	20.0	Averaged	
Methylcyclohexane	0.69360	0.67173	0.67173	0.100	3.15223	20.0	Averaged	
Methyl Acetate	0.42100	0.35662	0.35662	0.100	15.29309	20.0	Averaged	
Tert-butyl alcohol	1000	933	0.04312	0.005	6.69696	20.0	Linear	
Isopropyl alcohol	0.03269	0.02855	0.02855	0.005	12.65339	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.05908	0.05908	0.050	-2.62090	20.0	Averaged	
Isobutyl Alcohol	0.06496	0.07089	0.07089	0.005	-9.12767	20.0	Averaged	
Acetonitrile	0.05413	0.05004	0.05004	0.005	7.56361	20.0	Averaged	
Allyl Chloride	1.29812	1.13500	1.13500	0.100	12.56581	20.0	Averaged	
Methacrylonitrile	0.29541	0.26496	0.26496	0.100	10.30913	20.0	Averaged	
Methyl Methacrylate	0.42991	0.41585	0.41585	0.100	3.27139	20.0	Averaged	
Propionitrile	0.07225	0.06507	0.06507	0.010	9.94279	20.0	Averaged	
Acetaldehyde	0.06896	0.07333	0.07333	0.001	-6.33085	20.0	Averaged	
Methyl Acrylate	0.52880	0.50201	0.50201	0.100	5.06566	20.0	Averaged	
Ethyl Methacrylate	0.43830	0.42871	0.42871	0.100	2.18618	20.0	Averaged	
Dicyclopentadiene	2.43901	2.20480	2.20480	0.100	9.60251	20.0	Averaged	
alpha-Methylstyrene	50.0	44.43412	0.82554	0.100	11.13176	20.0	Linear	
Tetrahydrofuran	100	90.11467	0.07978	0.001	9.88533	20.0	Linear	
Diisopropyl ether	1.39419	1.26078	1.26078	0.100	9.56849	20.0	Averaged	
Benzyl Chloride	50.0	46.58144	0.27698	0.010	6.83712	20.0	Linear	
Butyl acrylate	0.59144	0.56585	0.56585	0.100	4.32753	20.0	Averaged	
Ethyl Acetate	0.44695	0.48845	0.48845	0.100	-9.28660	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Instrument ID VOA9.i Injection Date 09-JUN-2023 1104
Lab File ID U060903.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
Analysis Type WATER ICAL Times 1115 1541
Lab Sample ID CCV Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butyl acetate	0.56932	0.54990	0.54990	0.100	3.41021	20.0	Averaged	
Epichlorohydrin	200	169	0.00397	0.001	15.69309	20.0	Quadratic	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Instrument ID VOA9.i Injection Date 09-JUN-2023 1832
 Lab File ID U060923.DICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dichlorodifluoromethane	50.0	43.87233	0.40527	0.100	12.25535	50.0	Linear	
Chloromethane	50.0	57.15913	0.85924	0.100	-14.31826	50.0	Linear	
Vinyl Chloride	0.52887	0.52350	0.52350	0.100	1.01539	50.0	Averaged	
Bromomethane	50.0	52.83704	0.28683	0.100	-5.67408	50.0	Linear	
Chloroethane	0.35626	0.33197	0.33197	0.100	6.81844	50.0	Averaged	
Trichlorofluoromethane	0.60742	0.64155	0.64155	0.100	-5.61933	50.0	Averaged	
Acrolein	0.02654	0.02742	0.02742	0.010	-3.30483	50.0	Averaged	
Acetone	100	102	0.17569	0.100	-2.44047	50.0	Linear	
1,1-Dichloroethene	0.37953	0.43170	0.43170	0.100	-13.74696	50.0	Averaged	
Iodomethane	100	61.55464	0.16766	0.100	38.44536	50.0	Quadratic	
Acrylonitrile	0.18542	0.19755	0.19755	0.050	-6.53866	50.0	Averaged	
Methylene Chloride	50.0	51.81651	0.47221	0.100	-3.63302	50.0	Linear	
Methyl tert-butyl ether	1.16385	1.26032	1.26032	0.100	-8.28919	50.0	Averaged	
Carbon Disulfide	1.01461	1.02269	1.02269	0.100	-0.79574	50.0	Averaged	
trans-1,2-Dichloroethene	0.41275	0.41316	0.41316	0.100	-0.09981	50.0	Averaged	
Vinyl Acetate	1.25818	1.18076	1.18076	0.010	6.15338	50.0	Averaged	
1,1-Dichloroethane	0.78439	0.75944	0.75944	0.200	3.18049	50.0	Averaged	
2-Butanone	0.22797	0.21424	0.21424	0.100	6.02095	50.0	Averaged	
2,2-Dichloropropane	50.0	46.62710	0.48335	0.100	6.74580	50.0	Linear	
cis-1,2-Dichloroethene	0.49378	0.49064	0.49064	0.100	0.63678	50.0	Averaged	
Chloroform	0.81639	0.83131	0.83131	0.200	-1.82782	50.0	Averaged	
Bromochloromethane	0.27621	0.26784	0.26784	0.100	3.02906	50.0	Averaged	
Dibromofluoromethane	50.0	54.46042	0.45688	0.100	-8.92084	50.0	Linear	
1,1,1-Trichloroethane	0.62223	0.64573	0.64573	0.100	-3.77731	50.0	Averaged	
1,1-Dichloropropene	0.36644	0.33828	0.33828	0.100	7.68488	50.0	Averaged	
1,2-Dichloroethane	0.43276	0.42985	0.42985	0.100	0.67339	50.0	Averaged	
Carbon Tetrachloride	0.33660	0.32696	0.32696	0.100	2.86343	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	57.12921	0.51800	0.100	-14.25843	50.0	Linear	
Benzene	1.20483	1.10741	1.10741	0.500	8.08574	50.0	Averaged	
Trichloroethene	0.34921	0.45931	0.45931	0.200	-31.52968	50.0	Averaged	
Bromodichloromethane	0.37583	0.38297	0.38297	0.200	-1.89948	50.0	Averaged	
2-Chloroethylvinyl ether	0.00909	0.00630	0.00630	0.001	30.73330	50.0	Averaged	
1,2-Dichloropropane	0.32169	0.31845	0.31845	0.100	1.00738	50.0	Averaged	
Dibromomethane	0.20554	0.20205	0.20205	0.100	1.69706	50.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Instrument ID VOA9.i Injection Date 09-JUN-2023 1832
 Lab File ID U060923.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
4-Methyl-2-Pentanone	0.36411	0.34704	0.34704	0.100	4.68722	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	45.47707	0.45616	0.200	9.04586	50.0	Linear	
Toluene-d8	1.13164	1.15652	1.15652	0.100	-2.19804	50.0	Averaged	
Toluene	1.35612	1.31679	1.31679	0.400	2.90022	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	44.83806	0.37716	0.100	10.32388	50.0	Linear	
2-Hexanone	0.25357	0.22498	0.22498	0.100	11.27413	50.0	Averaged	
1,1,2-Trichloroethane	0.28217	0.26406	0.26406	0.100	6.41889	50.0	Averaged	
1,3-Dichloropropane	0.57650	0.55765	0.55765	0.100	3.26973	50.0	Averaged	
Dibromochloromethane	0.33480	0.35439	0.35439	0.100	-5.85105	50.0	Averaged	
Tetrachloroethene	0.33041	0.30573	0.30573	0.200	7.46943	50.0	Averaged	
1,2-Dibromoethane	0.34808	0.32709	0.32709	0.100	6.03099	50.0	Averaged	
1-Chlorohexane	0.25674	0.21758	0.21758	0.100	15.25344	50.0	Averaged	
Chlorobenzene	0.96786	0.93286	0.93286	0.500	3.61677	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.33265	0.33438	0.33438	0.100	-0.51871	50.0	Averaged	
Ethylbenzene	0.45047	0.44297	0.44297	0.100	1.66481	50.0	Averaged	
m,p-Xylenes	0.53296	0.54419	0.54419	0.100	-2.10694	50.0	Averaged	
o-Xylene	0.52651	0.53654	0.53654	0.300	-1.90379	50.0	Averaged	
Styrene	0.83556	0.89748	0.89748	0.300	-7.41103	50.0	Averaged	
Bromoform	0.22599	0.23522	0.23522	0.100	-4.08492	50.0	Averaged	
Isopropylbenzene	1.26463	1.25586	1.25586	0.100	0.69289	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.94051	0.81702	0.81702	0.300	13.12995	50.0	Averaged	
4-Bromofluorobenzene	50.0	53.19824	0.47388	0.100	-6.39648	50.0	Linear	
1,2,3-Trichloropropane	0.82740	0.75211	0.75211	0.100	9.09947	50.0	Averaged	
n-Propylbenzene	2.62266	2.44503	2.44503	0.100	6.77258	50.0	Averaged	
Bromobenzene	0.84363	0.78926	0.78926	0.100	6.44553	50.0	Averaged	
1,3,5-Trimethylbenzene	1.79927	1.65531	1.65531	0.100	8.00105	50.0	Averaged	
2-Chlorotoluene	1.84364	1.76315	1.76315	0.100	4.36601	50.0	Averaged	
4-Chlorotoluene	2.04071	1.97269	1.97269	0.100	3.33325	50.0	Averaged	
tert-Butylbenzene	1.76718	1.64400	1.64400	0.100	6.97016	50.0	Averaged	
1,2,4-Trimethylbenzene	1.88261	1.65502	1.65502	0.100	12.08945	50.0	Averaged	
sec-Butylbenzene	2.24110	2.03304	2.03304	0.100	9.28371	50.0	Averaged	
p-Isopropyltoluene	1.87752	1.67697	1.67697	0.100	10.68166	50.0	Averaged	
1,3-Dichlorobenzene	1.43286	1.31945	1.31945	0.600	7.91503	50.0	Averaged	
1,4-Dichlorobenzene	1.52773	1.38386	1.38386	0.400	9.41718	50.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Instrument ID VOA9.i Injection Date 09-JUN-2023 1832
 Lab File ID U060923.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
 Analysis Type WATER ICAL Times 1115 1541
 Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butylbenzene	1.60731	1.34399	1.34399	0.500	16.38280	50.0	Averaged	
1,2-Dichlorobenzene	1.43664	1.32295	1.32295	0.400	7.91414	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	0.13724	0.12539	0.12539	0.050	8.63479	50.0	Averaged	
1,2,4-Trichlorobenzene	0.98816	0.88108	0.88108	0.200	10.83619	50.0	Averaged	
Hexachlorobutadiene	0.39906	0.31152	0.31152	0.100	21.93834	50.0	Averaged	
Naphthalene	2.29538	2.21741	2.21741	0.200	3.39687	50.0	Averaged	
1,2,3-Trichlorobenzene	0.96603	0.85905	0.85905	0.100	11.07478	50.0	Averaged	
1,2-Dichloroethylene (total	0.45327	0.45190	0.45190	0.200	0.30141	50.0	Averaged	
Xylenes (total)	0.50452	0.52515	0.52515	0.100	-4.08825	50.0	Averaged	
1,4-Dioxane	0.00993	0.00716	0.00716	0.001	27.86435	50.0	Averaged	
Cyclohexane	50.0	41.68528	0.50985	0.100	16.62944	50.0	Quadratic	
Freon TF	0.33580	0.32519	0.32519	0.100	3.16172	50.0	Averaged	
1,3-Butadiene	0.47352	0.43486	0.43486	0.100	8.16470	50.0	Averaged	
Methylcyclohexane	0.69360	0.72171	0.72171	0.100	-4.05254	50.0	Averaged	
Methyl Acetate	0.42100	0.41661	0.41661	0.100	1.04297	50.0	Averaged	
Tert-butyl alcohol	1000	1033	0.04769	0.005	-3.25597	50.0	Linear	
Isopropyl alcohol	0.03269	0.03176	0.03176	0.005	2.82878	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.05757	0.05649	0.05649	0.050	1.88352	50.0	Averaged	
Isobutyl Alcohol	0.06496	0.08118	0.08118	0.005	-24.96855	50.0	Averaged	
Acetonitrile	0.05413	0.06036	0.06036	0.005	-11.49684	50.0	Averaged	
Allyl Chloride	1.29812	1.32735	1.32735	0.100	-2.25138	50.0	Averaged	
Methacrylonitrile	0.29541	0.31993	0.31993	0.100	-8.30185	50.0	Averaged	
Methyl Methacrylate	0.42991	0.49661	0.49661	0.100	-15.51589	50.0	Averaged	
Propionitrile	0.07225	0.07441	0.07441	0.010	-2.98656	50.0	Averaged	
Acetaldehyde	0.06896	0.06339	0.06339	0.001	8.08078	50.0	Averaged	
Methyl Acrylate	0.52880	0.58296	0.58296	0.100	-10.24238	50.0	Averaged	
Ethyl Methacrylate	0.43830	0.46634	0.46634	0.100	-6.39763	50.0	Averaged	
Dicyclopentadiene	2.43901	2.30943	2.30943	0.100	5.31263	50.0	Averaged	
alpha-Methylstyrene	50.0	41.62109	0.76876	0.100	16.75781	50.0	Linear	
Tetrahydrofuran	100	104	0.09188	0.001	-4.14426	50.0	Linear	
Diisopropyl ether	1.39419	1.50958	1.50958	0.100	-8.27699	50.0	Averaged	
Benzyl Chloride	50.0	34.47691	0.19921	0.010	31.04618	50.0	Linear	
Butyl acrylate	0.59144	0.58893	0.58893	0.100	0.42535	50.0	Averaged	
Ethyl Acetate	0.44695	0.54897	0.54897	0.100	-22.82554	50.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Instrument ID VOA9.i Injection Date 09-JUN-2023 1832
Lab File ID U060923.D ICAL Date(s) 06-JUN-2023 06-JUN-2023
Analysis Type WATER ICAL Times 1115 1541
Lab Sample ID CCV-END Quant Type ISTD

Compound	RRF / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
n-Butyl acetate	0.56932	0.54235	0.54235	0.100	4.73575	50.0	Averaged	
Epichlorohydrin	200	148	0.00344	0.001	25.91826	50.0	Quadratic	





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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23060280

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

		IS1		IS2		IS3		IS4		
Sample ID	File ID	Area	RT	Area	RT	Area	RT	Area	RT	
12-HOUR STD (CCV)	U060803	706029	# 4.81 #	1034895	# 5.55 #	988227	# 8.19 #	514206	# 10.17 #	
CCB	U060804	780675	4.82	1065625	5.55	961264	8.19	469434	10.17	
VLCSW-230608	U060805	684177	4.82	1004154	5.55	955578	8.19	506035	10.17	
VBLKW-230608	U060806	777015	4.82	1080793	5.55	996337	8.19	488008	10.17	
ZZZZZMS	U060816	787772	4.81	1083593	5.55	993394	8.19	521972	10.17	
ZZZZZMSD	U060817	797352	4.82	1098779	5.55	981200	8.19	510788	10.17	
HS23060280-01	U060820	762211	4.82	1057828	5.56	966353	8.19	480464	10.17	
HS23060280-03	U060821	698149	4.81	953524	5.55	967637	8.19	471522	10.17	
HS23060280-04	U060822	784209	4.82	1073764	5.56	974997	8.19	487350	10.17	
HS23060280-05	U060823	775885	4.81	1068641	5.55	979303	8.19	484441	10.17	
HS23060280-06	U060824	785158	4.82	1081242	5.55	971866	8.19	482387	10.17	
HS23060280-07	U060825	773974	4.82	1068176	5.55	947878	8.19	460410	10.17	
HS23060280-08	U060826	793181	4.82	1101035	5.55	997198	8.19	485259	10.17	
HS23060280-02	U060827	777735	4.82	1072254	5.55	991109	8.19	479414	10.17	
CCV-END	U060828	671360	4.81	1036563	5.55	951030	8.19	492233	10.17	

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





Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

		IS1		IS2		IS3		IS4		
Sample ID	File ID	Area	RT	Area	RT	Area	RT	Area	RT	
12-HOUR STD (CCV)	U060903	714633	# 4.81 #	1039676	# 5.55 #	977259	# 8.19 #	504481	# 10.17 #	
CCB	U060904	743528	4.82	1025063	5.55	930126	8.19	468724	10.17	
VLCSW-230609	U060905	679948	4.81	1003950	5.55	954322	8.19	496711	10.17	
VBLKW-230609	U060907	716924	4.82	1020692	5.55	1001569	8.19	498989	10.17	
HS23060280-10	U060908	783793	4.82	1078204	5.55	988696	8.19	496758	10.17	
HS23060280-09	U060909	774829	4.82	1080377	5.55	983727	8.19	476347	10.17	
HS23060280-09MS	U060913	691169	4.82	968279	5.55	971910	8.19	509349	10.17	
HS23060280-09MSD	U060914	772335	4.82	1061447	5.56	975642	8.19	506071	10.17	
HS23060280-02	U060916	764402	4.82	1065018	5.56	961864	8.19	473577	10.17	
CCV-END	U060923	602180	4.82	969814	5.55	940281	8.19	495031	10.17	

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





Analysis Run Log

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437296

Run ID	VOA9_437296	Start Date	06/06/23	EndDate	06/06/23
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Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:53	BFB	TUNE	BFB	U060601.D	06/06/23	1
11:15	VSTD000.25	ICAL1	VSTD000.25	U060602.D	06/06/23	1
11:37	VSTD000.5	ICAL2	VSTD000.5	U060603.D	06/06/23	1
13:06	VSTD005	ICAL5	VSTD005	U060606.D	06/06/23	1
13:28	VSTD001	ICAL3	VSTD001	U060607.D	06/06/23	1
13:50	VSTD002	ICAL4	VSTD002	U060608.D	06/06/23	1
14:13	VSTD020	ICAL6	VSTD020	U060609.D	06/06/23	1
14:35	VSTD050	ICAL7	VSTD050	U060610.D	06/06/23	1
14:57	VSTD100	ICAL8	VSTD100	U060611.D	06/06/23	1
15:19	VSTD150	ICAL9	VSTD150	U060612.D	06/06/23	1
15:41	VSTD200	ICAL	VSTD200	U060613.D	06/06/23	1
16:48	CCV	ICV	CCV	U060616.D	06/06/23	1





Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437473

Run ID VOA9_437473	Start Date 06/08/23	EndDate 06/08/23
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Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:42	BFB	TUNE	BFB	U060801.D	06/08/23	1
11:26	CCV	CCV	CCV	U060803.D	06/08/23	1
11:49	CCB	CCB	CCB	U060804.D	06/08/23	1
12:11	VLCSW-230608	LCS	VLCSW-230608	U060805.D	06/08/23	1
12:33	VBLKW-230608	MBLK	VBLKW-230608	U060806.D	06/08/23	1
12:56	ZZZZZZZZZZ	SAMP	HS23060241-05	U060807.D	06/08/23	1
13:18	ZZZZZZZZZZ	SAMP	HS23060241-03	U060808.D	06/08/23	1
13:40	ZZZZZZZZZZ	SAMP	HS23060241-02	U060809.D	06/08/23	1
14:03	ZZZZZZZZZZ	SAMP	HS23060241-04	U060810.D	06/08/23	1
14:25	ZZZZZZZZZZ	SAMP	HS23060249-01	U060811.D	06/08/23	1
14:48	ZZZZZZZZZZ	SAMP	HS23060249-07	U060812.D	06/08/23	1
16:17	ZZZZZZMS	MS	HS23060241-04MS	U060816.D	06/08/23	1
16:40	ZZZZZZMSD	MSD	HS23060241-04MSD	U060817.D	06/08/23	1
17:02	ZZZZZZZZZZ	SAMP	HS23060010-12	U060818.D	06/08/23	200
17:24	ZZZZZZZZZZ	SAMP	HS23060249-05	U060819.D	06/08/23	10
17:47	35AWW19_060523	SAMP	HS23060280-01	U060820.D	06/08/23	1
18:09	LHSMW07_060523	SAMP	HS23060280-03	U060821.D	06/08/23	1
18:32	35AWW06_060523	SAMP	HS23060280-04	U060822.D	06/08/23	1
18:54	35AWW23_060523	SAMP	HS23060280-05	U060823.D	06/08/23	1
19:16	35AWW11_060523	SAMP	HS23060280-06	U060824.D	06/08/23	1
19:39	35AWW22_060523	SAMP	HS23060280-07	U060825.D	06/08/23	1
20:01	35AWW12_060523	SAMP	HS23060280-08	U060826.D	06/08/23	1
20:24	35AWW20_060523	SAMP	HS23060280-02	U060827.D	06/08/23	1
20:46	CCV-END	CCV_END	CCV-END	U060828.D	06/08/23	1





Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

VOA9_437641

Run ID	VOA9_437641	Start Date	06/09/23	EndDate	06/09/23
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Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:20	BFB	TUNE	BFB	U060901.D	06/09/23	1
11:04	CCV	CCV	CCV	U060903.D	06/09/23	1
11:27	CCB	CCB	CCB	U060904.D	06/09/23	1
11:49	VLCSW-230609	LCS	VLCSW-230609	U060905.D	06/09/23	1
12:34	VBLKW-230609	MBLK	VBLKW-230609	U060907.D	06/09/23	1
12:56	Trip Blank	SAMP	HS23060280-10	U060908.D	06/09/23	1
13:19	35AWW12_060523_a	SAMP	HS23060280-09	U060909.D	06/09/23	1
13:41	ZZZZZZZZZZ	SAMP	HS23060241-01	U060910.D	06/09/23	1
14:26	ZZZZZZZZZZ	SAMP	HS23060249-08	U060912.D	06/09/23	50
14:48	HS23060280-09MS	MS	HS23060280-09MS	U060913.D	06/09/23	1
15:11	HS23060280-09MSD	MSD	HS23060280-09MSD	U060914.D	06/09/23	1
15:33	ZZZZZZZZZZ	SAMP	HS23060249-08	U060915.D	06/09/23	500
15:55	35AWW20_060523	SAMP	HS23060280-02	U060916.D	06/09/23	25
16:18	ZZZZZZZZZZ	SAMP	HS23060249-07	U060917.D	06/09/23	25
16:40	ZZZZZZZZZZ	SAMP	HS23060241-01	U060918.D	06/09/23	5
17:03	ZZZZZZZZZZ	SAMP	HS23060438-01	U060919.D	06/09/23	1
17:25	ZZZZZZZZZZ	SAMP	HS23060391-01	U060920.D	06/09/23	1
17:25	ZZZZZZZZZZ	SAMP	HS23060392-02	U060920.D	06/09/23	1
17:25	ZZZZZZZZZZ	SAMP	HS23060393-02	U060920.D	06/09/23	1
17:25	ZZZZZZZZZZ	SAMP	HS23060394-02	U060920.D	06/09/23	1
18:32	CCV-END	CCV_END	CCV-END	U060923.D	06/09/23	1





right solutions.
right partner.

Raw Data VOA9 437296

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060601.D Page 1
 Report Date: 06-Jun-2023 11:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060601.D
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 06-JUN-2023 10:53
 Operator : PC Inst ID: VOA9.i
 Smp Info : BFB;BFB;3;;BFB
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\bfb.m
 Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
 Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: NAHSTW7051

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

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

CONCENTRATIONS									
				ON-COL		FINAL			
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb				CAS #: 460-00-4					
9.197	9.180 (0.000)		95	136448			0.00-	100.00	100.00
9.197	9.180 (0.000)		50	25960			15.00-	40.00	19.03
9.197	9.180 (0.000)		75	63728			30.00-	60.00	46.70
9.197	9.180 (0.000)		96	9360			5.00-	9.00	6.86
9.197	9.180 (0.000)		173	0	0.0	0.0	0.00-	2.00	0.00
9.197	9.180 (0.000)		174	125696			50.00-	0.00	92.12
9.197	9.180 (0.000)		175	10925			5.00-	9.00	8.69
9.197	9.180 (0.000)		176	121928			95.00-	101.00	97.00
9.197	9.180 (0.000)		177	8371			5.00-	9.00	6.87



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.03
75	30.00 - 60.00% of mass 95	46.70
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	92.12
175	5.00 - 9.00% of mass 174	8.01 (8.69)
176	95.00 - 101.00% of mass 174	89.36 (97.00)
177	5.00 - 9.00% of mass 176	6.13 (6.87)

Data File: U060601.D
 Spectrum: Scan 2294 (9.19)
 Location of Maximum: 95.00
 Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1606	78.90	3626	126.90	173	180.50	63
37.00	7004	79.90	1138	127.90	637	189.70	63
38.00	6056	80.90	3614	128.80	349	190.10	90
39.10	2292	81.90	1010	129.90	611	190.90	76
39.90	605	83.70	86	131.00	267	191.70	102
40.60	238	84.40	139	131.90	136	193.30	85
41.50	249	85.10	99	133.00	93	193.80	111
42.40	145	86.00	358	134.00	60	194.90	61
43.10	257	86.90	5506	134.90	188	195.70	59
43.90	1550	87.90	5724	135.50	114	199.00	61
45.00	1049	89.70	70	136.10	156	201.00	76
46.20	308	90.90	483	137.00	446	204.10	65
47.00	2170	92.00	3718	138.70	149	206.80	96
47.80	1172	93.00	5572	139.60	225	214.00	57
49.00	5597	94.00	17248	140.80	1519	215.30	57
50.00	25960	95.00	136448	141.80	216	217.30	81
51.00	8122	96.00	9360	142.90	1809	219.80	80
52.10	549	97.00	242	143.90	185	221.90	82
53.20	314	98.10	120	144.90	427	226.10	60
53.90	188	99.50	83	145.90	283	227.70	56
54.20	214	100.10	128	146.90	135	233.00	105
54.80	516	101.30	73	147.90	335	241.30	67
56.00	2033	102.80	171	148.90	169	243.30	72
57.00	3459	103.90	720	149.80	365	244.40	79
57.90	375	104.80	244	151.80	188	246.00	69
59.00	221	105.80	554	152.60	215	247.20	66
60.00	1229	107.10	182	153.80	221	253.10	56
61.00	6314	107.60	97	154.80	409	258.80	62
62.00	6603	108.20	76	155.90	107	264.10	94
63.00	5015	109.70	198	157.00	385	264.50	57
64.00	798	111.00	182	158.70	185	265.40	67
64.90	849	111.60	225	160.20	116	278.00	50
65.80	161	112.70	159	161.10	194	283.30	85
66.80	415	113.00	170	161.60	65	284.10	92
68.00	14015	114.80	234	166.70	55	286.60	57
69.00	13768	115.90	673	168.00	87	287.60	52
70.00	1246	116.90	876	169.10	89	295.90	52
70.80	262	117.80	546	169.60	59	300.90	71
71.30	260	118.80	825	170.30	103	302.50	52
72.10	826	119.90	99	171.00	262	320.40	86
73.00	6098	120.40	70	172.00	1169	328.50	66
74.00	20912	121.70	115	173.90	125696	330.30	64
75.00	63728	122.50	79	175.00	10925	339.30	78
76.00	6105	123.50	138	175.90	121928	346.10	69
76.90	843	124.80	115	176.90	8371	349.50	59

+-----+-----+-----+-----+																			
	77.90		770		125.60		102		177.90		233								
+-----+-----+-----+-----+																			

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D Page 1
 Report Date: 13-Jun-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
 Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
 Inj Date : 06-JUN-2023 11:15
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD000.25;VSTD000.25;1;1;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:00 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 2 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.815	4.815	(1.000)		758075	50.0000	
15 Iodomethane	142		2.476	2.476	(0.514)		1709	0.50000	10.21(T)
26 2,2-Dichloropropane	77		4.182	4.182	(0.868)		2648	0.25000	0.73(a)
\$ 30 Dibromofluoromethane	113		4.751	4.751	(0.987)		2358	0.25000	0.05(a)
\$ 35 1,2-Dichloroethane-d4	65		5.100	5.100	(1.059)		2464	0.25000	(a)
* 36 1,4-Difluorobenzene	114		5.554	5.554	(1.000)		1141877	50.0000	
46 cis-1,3-Dichloropropene	75		6.693	6.693	(1.205)		2552	0.25000	2.12(a)
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		1042568	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		9480	0.25000	0.40(a)
51 trans-1,3-Dichloropropene	75		7.207	7.207	(1.298)		1508	0.25000	2.17(a)
58 1-Chlorohexane	55		8.185	8.185	(1.474)		10231	0.25000	1.74(a)
\$ 69 4-Bromofluorobenzene	95		9.197	9.197	(1.124)		6043	0.25000	(a)
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		519246	50.0000	
M 94 1,2-Dichloroethylene (total)	96						4023	0.50000	(a)
141 Cyclohexane	56		4.815	4.815	(1.000)		12882	0.25000	1.60(a)
140 1,3-Butadiene	54		1.404	1.404	(0.292)		1956	0.25000	0.27(a)
145 alpha-Methylstyrene	118		9.760	9.760	(0.959)		2265	0.25000	3.75(a)
162 Butyl acrylate	55		8.736	8.736	(1.067)		4785	0.25000	0.38(a)
203 2-Ethylhexyl Acrylate	55		12.046	12.046	(1.184)		2128	0.25000	2.17(a)





Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D Page 2
Report Date: 13-Jun-2023 13:00

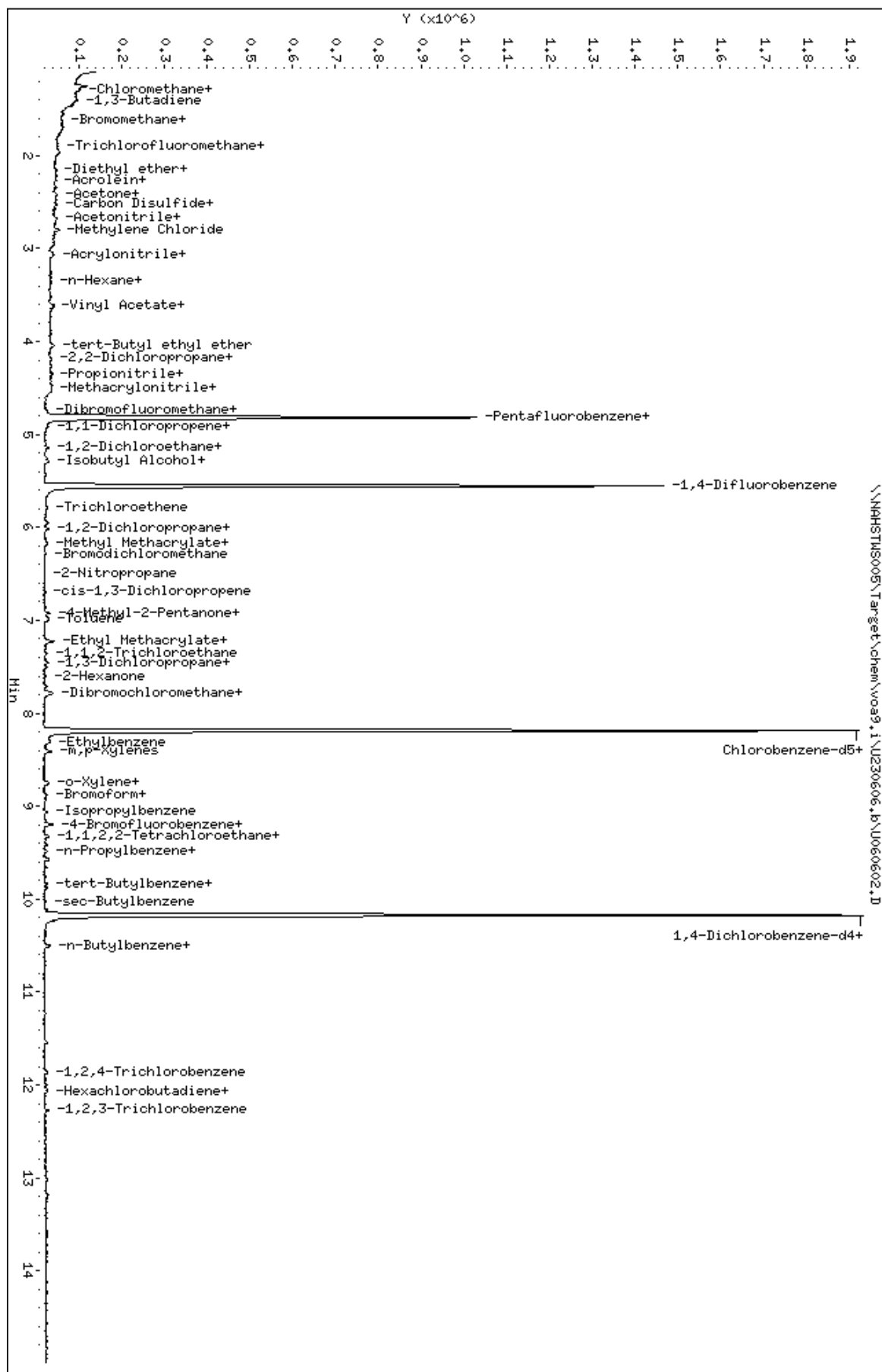
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230606.b\U060602.D
 Date : 06-JUN-2023 11:15
 Client ID: VSTD000.25
 Sample Info: VSTD000.25;VSTD000.25;111;
 Purge Volume: 5.0
 Column phase: DB624

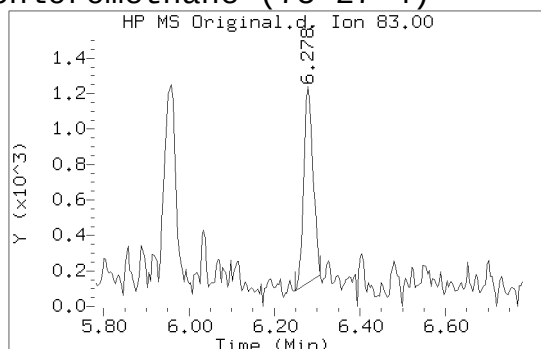
Instrument: V089.i
 Operator: PC
 Column diameter: 0.18



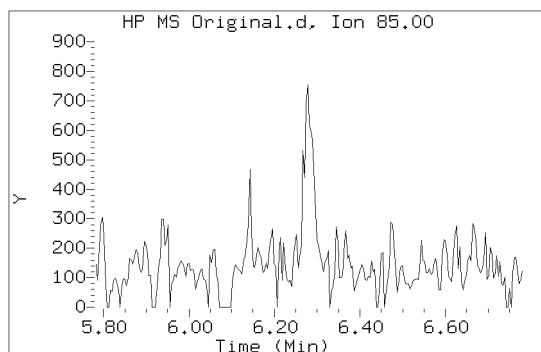
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

Bromodichloromethane (75-27-4)**BEFORE**

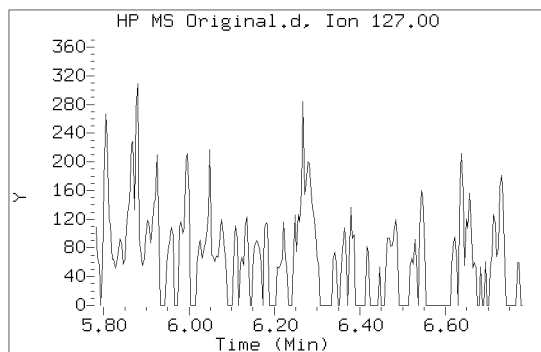
MASS
83
AREA
1696
HEIGHT
1106
08-Jun-2023
14:56
linh

**BEFORE**

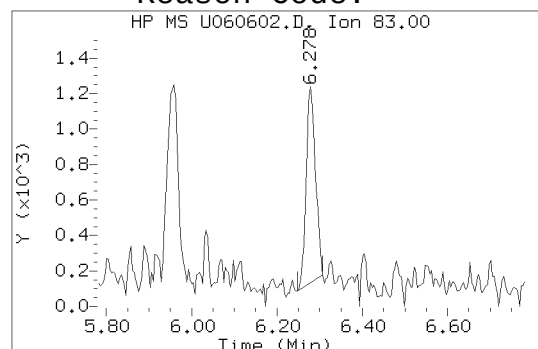
MASS
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AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**BEFORE**

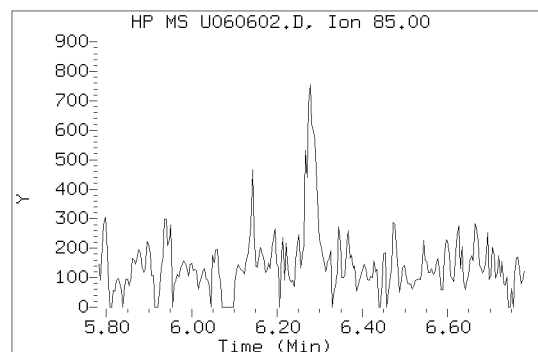
MASS
127
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

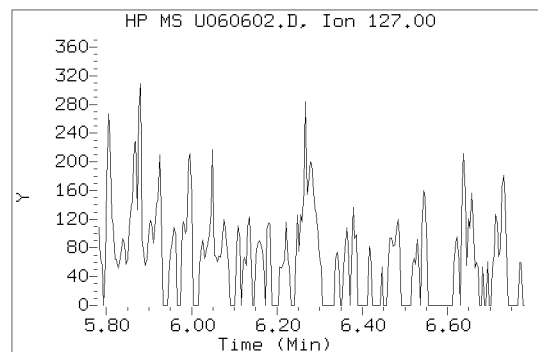
MASS
83
AREA
1696
HEIGHT
1106
13-Jun-2023
13:00
linh

**AFTER**

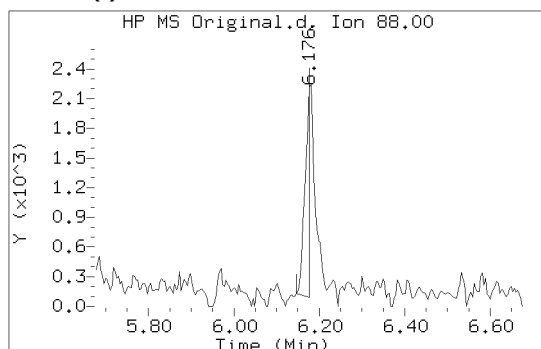
MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**AFTER**

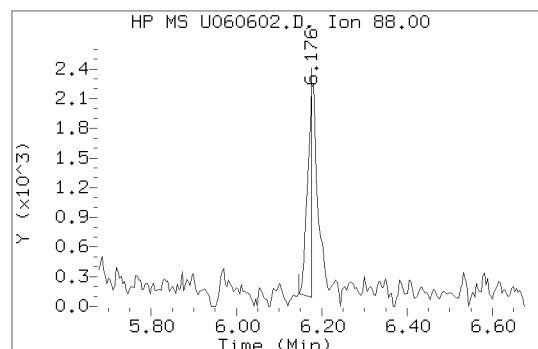
MASS
127
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**1,4-Dioxane ()****BEFORE**

MASS
88
AREA
1694
HEIGHT
2126
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

MASS
88
AREA
1694
HEIGHT
2126
13-Jun-2023
13:00
linh
pham

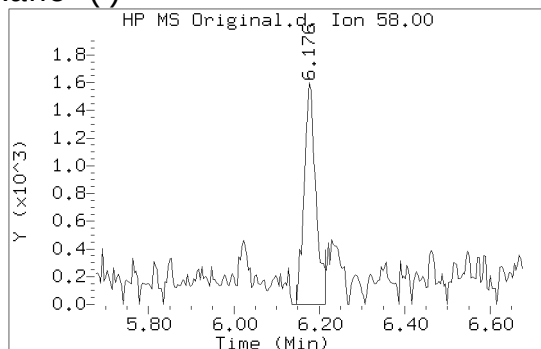


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060602.D
Inj Date : 06-JUN-2023 11:15
InstruID : VOA9.i
LabSampID : VSTD000.25

1,4-Dioxane ()

BEFORE

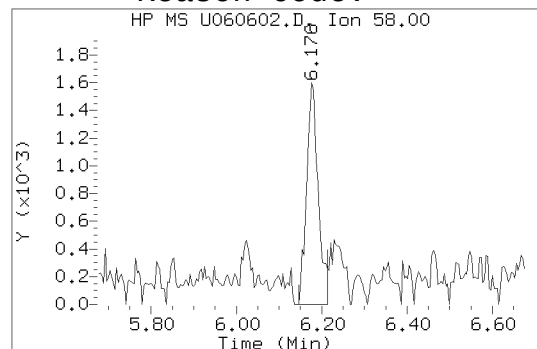
MASS
58
AREA
3075
HEIGHT
1600
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
3075
HEIGHT
1600
13-Jun-2023
13:00
linh
pham

Reason Code:



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D Page 1
 Report Date: 13-Jun-2023 13:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
 Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
 Inj Date : 06-JUN-2023 11:37
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD000.5;VSTD000.5;1;2;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:00 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 11:15 Cal File: U060602.D
 Als bottle: 3 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.819	4.819	(1.000)	671879	50.0000		
2 Dichlorodifluoromethane	85		1.168	1.168	(0.242)	3237	0.50000	0.60(a)	
5 Vinyl Chloride	62		1.381	1.381	(0.287)	3572	0.50000	0.50(a)	
7 Chloroethane	64		1.704	1.704	(0.354)	2580	0.50000	0.53(aM)	
15 Iodomethane	142		2.480	2.480	(0.515)	1872	1.00000	10.30(T)	
19 Carbon Disulfide	76		2.525	2.525	(0.524)	13120	1.00000	0.96(a)	
20 trans-1,2-Dichloroethene	96		3.065	3.065	(0.636)	2954	0.50000	0.53(a)	
22 1,1-Dichloroethane	63		3.518	3.518	(0.730)	6153	0.50000	0.58(a)	
24 2-Butanone	43		4.272	4.272	(0.886)	3610	1.00000	1.17(aM)	
26 2,2-Dichloropropane	77		4.193	4.193	(0.870)	3685	0.50000	0.92(a)	
29 Bromochloromethane	128		4.470	4.470	(0.928)	2104	0.50000	0.56(a)	
\$ 30 Dibromofluoromethane	113		4.751	4.751	(0.986)	3644	0.50000	0.33(aM)	
31 1,1,1-Trichloroethane	97		4.744	4.744	(0.984)	4434	0.50000	0.53(aM)	
\$ 35 1,2-Dichloroethane-d4	65		5.104	5.104	(1.059)	3795	0.50000	(aM)	
* 36 1,4-Difluorobenzene	114		5.554	5.554	(1.000)	991670	50.0000		
46 cis-1,3-Dichloropropene	75		6.693	6.693	(1.205)	4533	0.50000	2.34(aM)	
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)	921846	50.0000		
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)	14408	0.50000	0.69(aM)	
50 Toluene	91		6.986	6.986	(0.853)	13471	0.50000	0.53(aM)	
51 trans-1,3-Dichloropropene	75		7.203	7.203	(1.297)	4073	0.50000	2.48(aM)	



54	1,3-Dichloropropane	76	7.503	7.503 (0.917)	5569	0.50000	0.52(a)
57	1,2-Dibromoethane	107	7.792	7.792 (0.952)	3622	0.50000	0.56(aM)

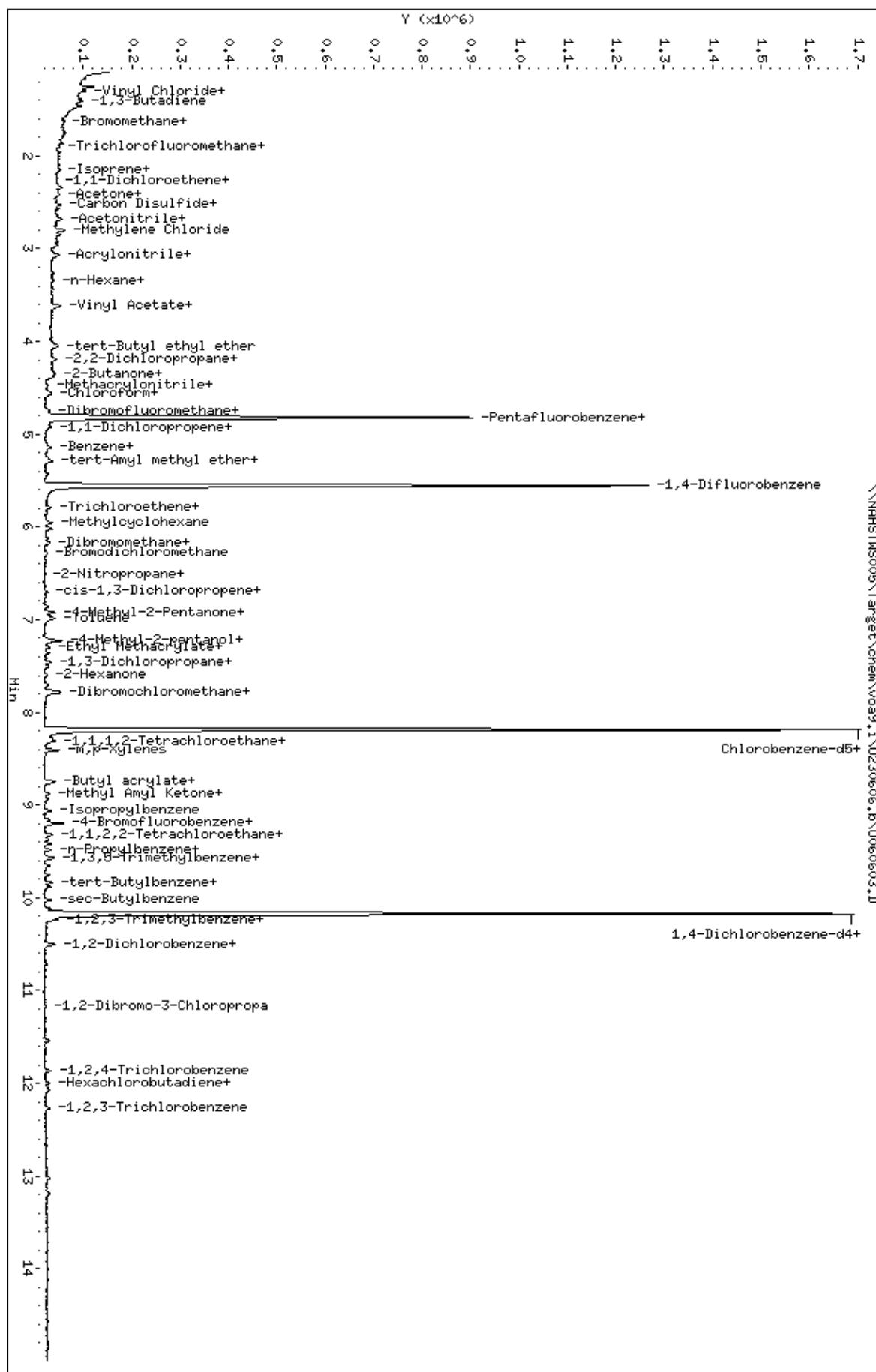
Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D Page 2
 Report Date: 13-Jun-2023 13:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
58 1-Chlorohexane	55	8.200	8.200	(1.477)	2785	0.50000	0.54(aM)
59 Chlorobenzene	112	8.208	8.208	(1.003)	8858	0.50000	0.49(a)
60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	3117	0.50000	0.50(a)
62 m,p-Xylenes	106	8.410	8.410	(1.027)	9164	1.00000	0.93(aM)
68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	4333	0.50000	0.50(aM)
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	5007	0.50000	(aM)
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	456421	50.0000	
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	6595	0.50000	0.50(a)
93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	4090	0.50000	0.46(aM)
M 94 1,2-Dichloroethylene (total)	96				6594	1.00000	(a)
141 Cyclohexane	56	4.796	4.796	(0.995)	4345	0.50000	0.72(aM)
138 Freon TF	101	2.341	2.341	(0.486)	2391	0.50000	0.52(aM)
140 1,3-Butadiene	54	1.408	1.408	(0.292)	2958	0.50000	0.46(a)
13 Acetonitrile	39	2.678	2.678	(0.556)	4044	5.00000	5.55(a)
40 Methyl Methacrylate	41	6.165	6.165	(1.279)	3083	0.50000	0.53(aM)
4 Propionitrile	54	4.347	4.347	(0.902)	5579	5.00000	5.74(aM)
136 n-Hexane	57	3.353	3.353	(0.696)	2983	0.50000	0.65(a)
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	1341	0.50000	4.71(aM)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	9904	0.50000	0.56(a)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	3201	0.50000	3.88(a)
156 Diisopropyl ether	45	3.627	3.627	(0.753)	10933	0.50000	0.58(a)
151 4-Methyl-2-pentanol	45	7.226	7.226	(1.301)	20153	10.0000	13.66
150 Allyl alcohol	57	3.353	3.353	(0.696)	2691	10.0000	12.72(M)
86 Benzyl Chloride	91	10.315	10.315	(1.260)	1867	0.50000	3.78(aM)
162 Butyl acrylate	55	8.740	8.740	(1.068)	6005	0.50000	0.55(a)
139 Diethyl ether	59	2.150	2.150	(0.446)	2812	0.50000	0.61(aM)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2309	0.50000	2.27(a)
130 Ethyl Acetate	43	4.272	4.272	(0.886)	3781	0.50000	0.62(TaM)

QC Flag Legend

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





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 Sample Info: WSTD000.5;WSTD000.5;1;2;
 Purge Volume: 5.0
 Column phase: DB624

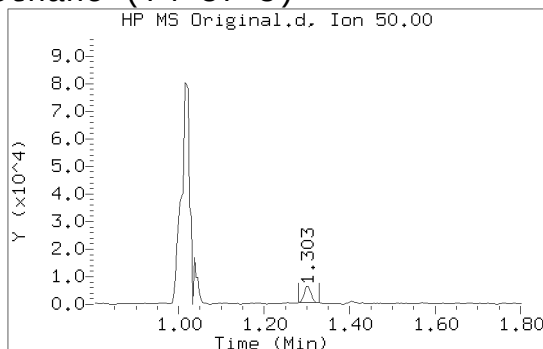
Instrument: VDA9.1
 Operator: PC
 Column diameter: 0.18



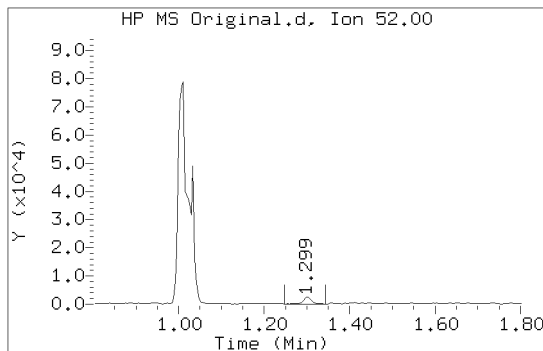
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LabSampID : VSTD000.5

Chloromethane (74-87-3)**BEFORE**

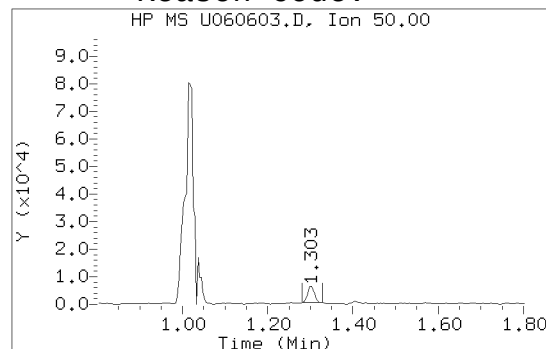
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HEIGHT
5876
08-Jun-2023
14:56
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**BEFORE**

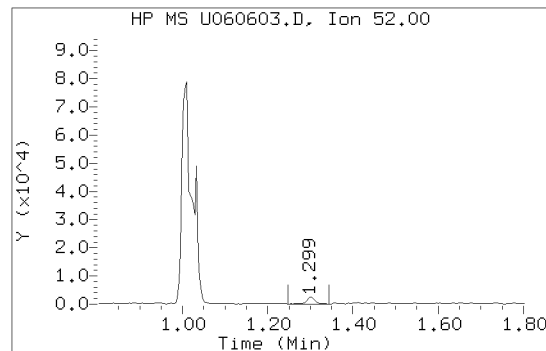
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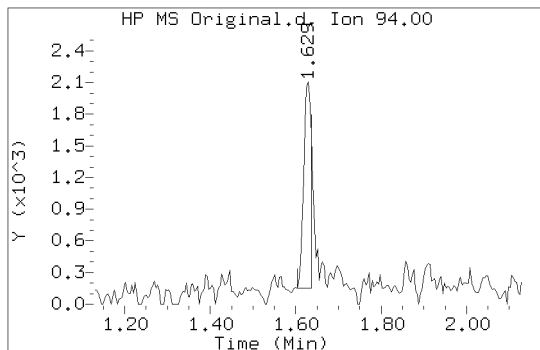
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**AFTER**

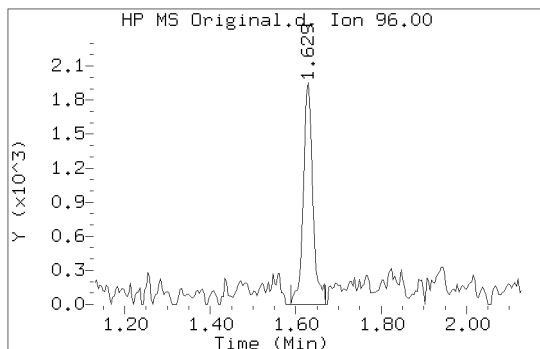
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HEIGHT
2605
13-Jun-2023
13:00
linh
pham

**Bromomethane (74-83-9)****BEFORE**

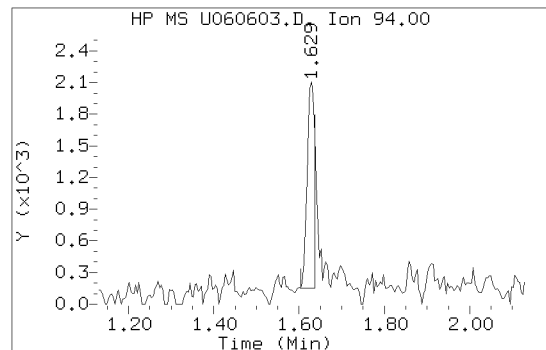
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HEIGHT
1953
08-Jun-2023
14:56
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pham

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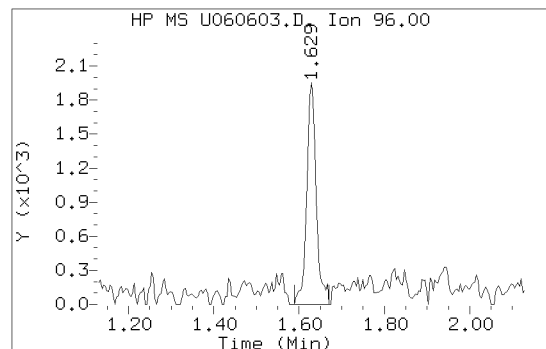
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08-Jun-2023
14:56
linh
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**Reason Code:****AFTER**

MASS
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AREA
2378
HEIGHT
1953
13-Jun-2023
13:00
linh
pham

**AFTER**

MASS
96
AREA
3081
HEIGHT
1953
13-Jun-2023
13:00
linh
pham

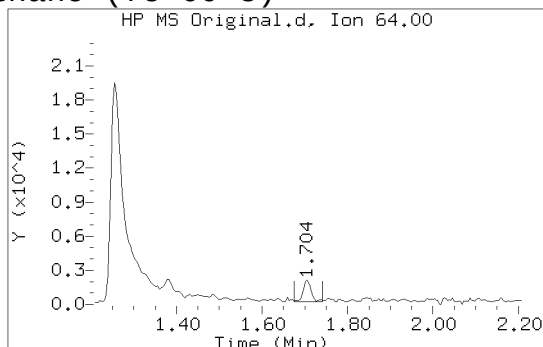


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InstruID : VOA9.i
LabSampID : VSTD000.5

Chloroethane (75-00-3)

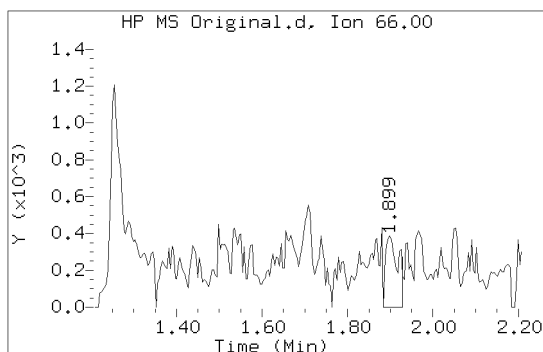
BEFORE

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BEFORE

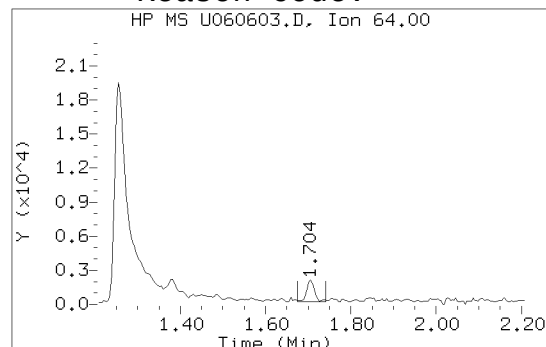
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AREA
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HEIGHT
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14:56
linh
pham



Reason Code:

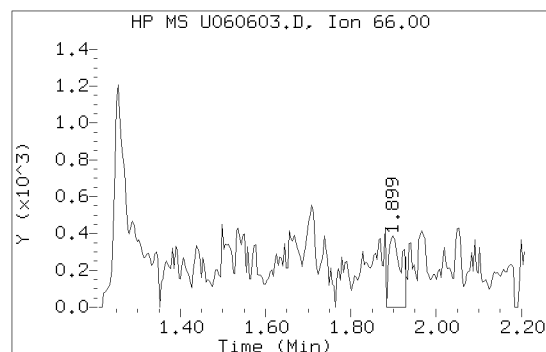
AFTER

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2580
HEIGHT
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13-Jun-2023
13:00
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AFTER

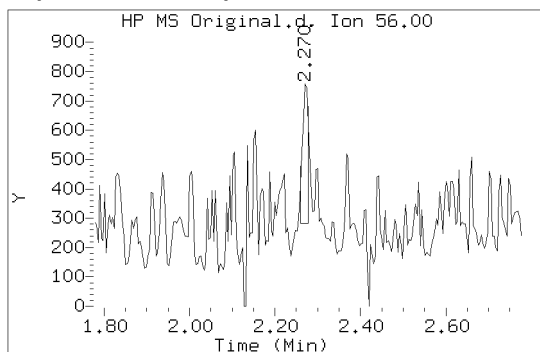
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AREA
783
HEIGHT
389
13-Jun-2023
13:00
linh
pham



Acrolein (107-02-8)

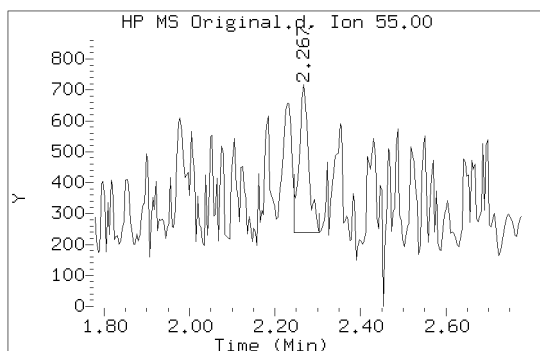
BEFORE

MASS
56
AREA
451
HEIGHT
476
08-Jun-2023
14:56
linh
pham



BEFORE

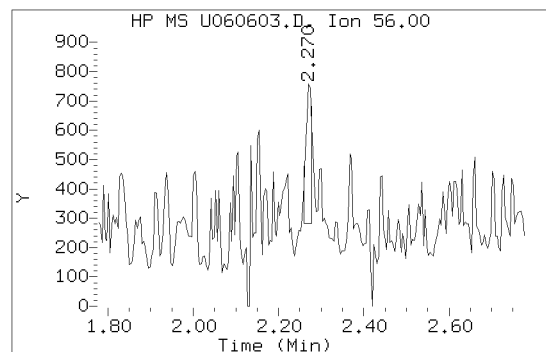
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AREA
750
HEIGHT
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08-Jun-2023
14:56
linh
pham



Reason Code:

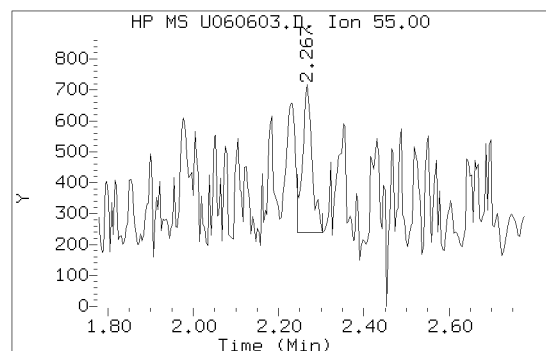
AFTER

MASS
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AREA
451
HEIGHT
476
13-Jun-2023
13:00
linh
pham



AFTER

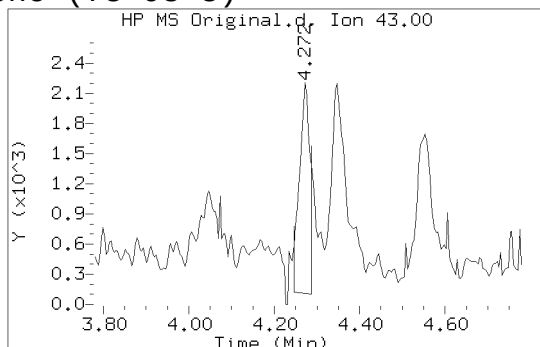
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AREA
750
HEIGHT
478
13-Jun-2023
13:00
linh
pham



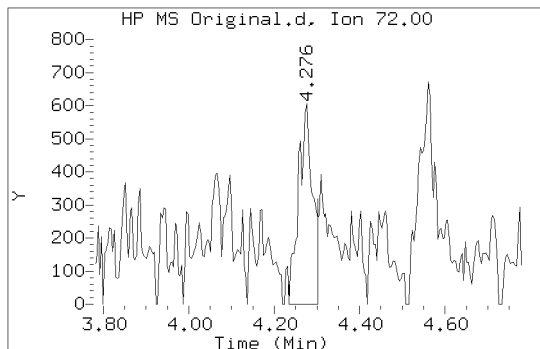
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)**BEFORE**

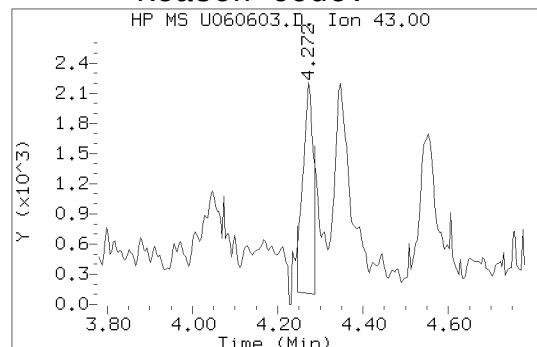
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**BEFORE**

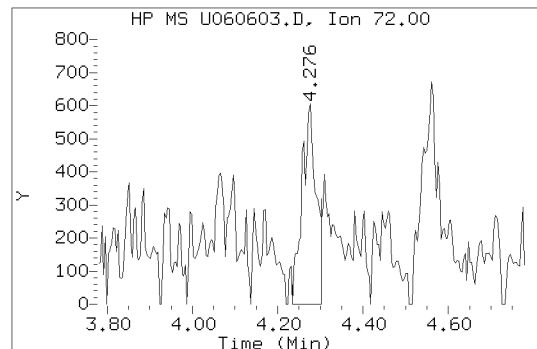
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AREA
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HEIGHT
606
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14:56
linh
pham

**AFTER**

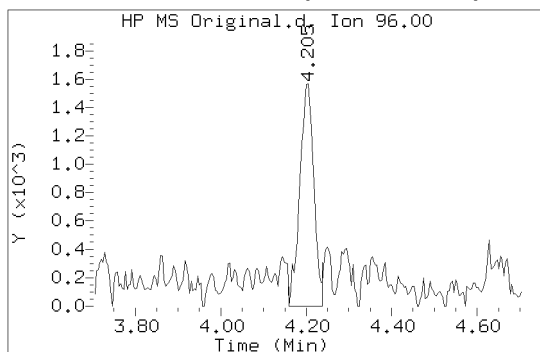
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AREA
3610
HEIGHT
2093
13-Jun-2023
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**AFTER**

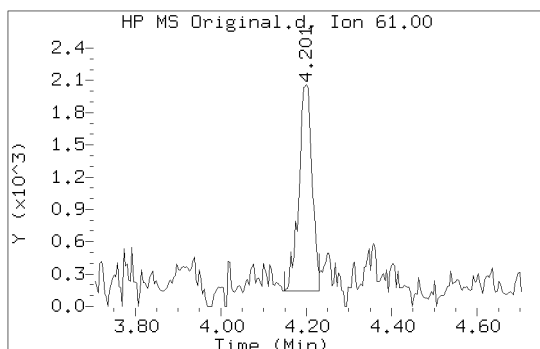
MASS
72
AREA
1400
HEIGHT
606
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13:00
linh
pham

**cis-1,2-Dichloroethene (156-59-2)****BEFORE**

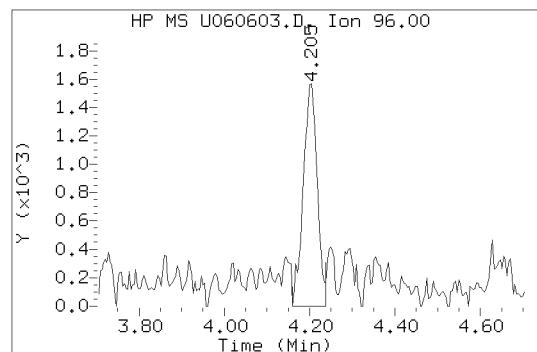
MASS
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AREA
3640
HEIGHT
1571
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14:56
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**BEFORE**

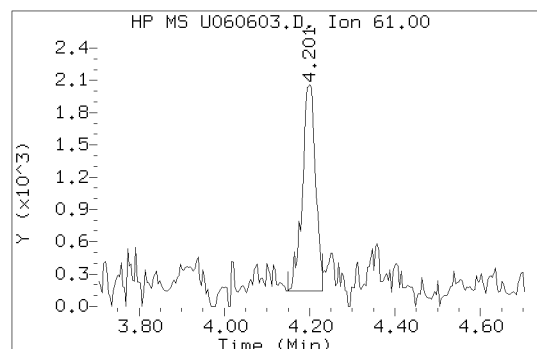
MASS
61
AREA
4196
HEIGHT
1915
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
96
AREA
3640
HEIGHT
1571
13-Jun-2023
13:00
linh
pham

**AFTER**

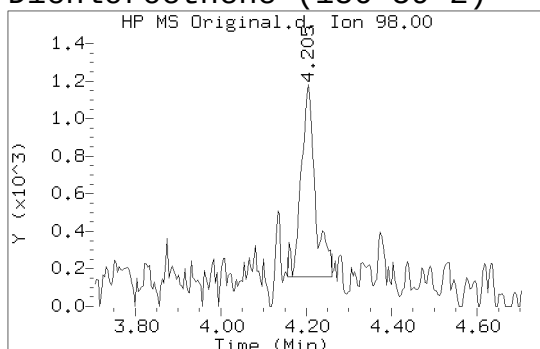
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1915
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pham



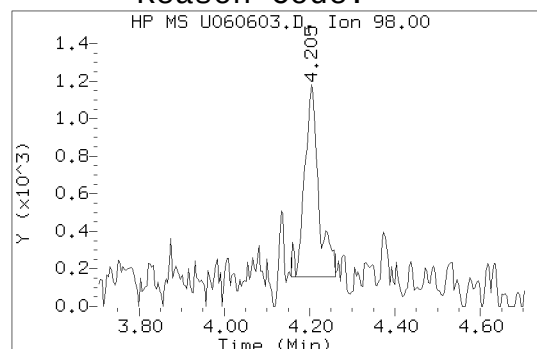
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InstruID : VOA9.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)**BEFORE**

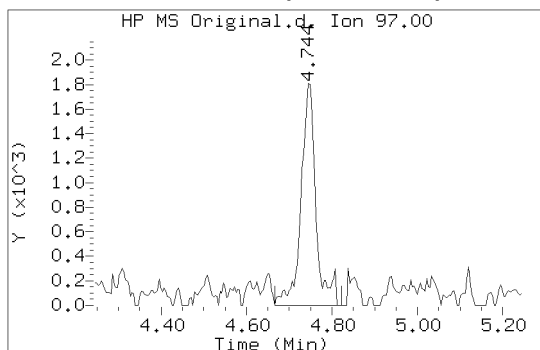
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HEIGHT
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**AFTER**

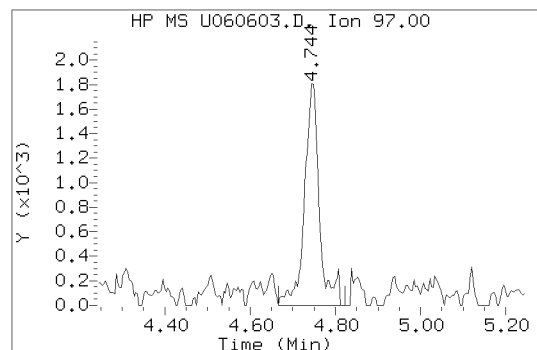
MASS
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linh
pham

Reason Code:**1,1,1-Trichloroethane (71-55-6)****BEFORE**

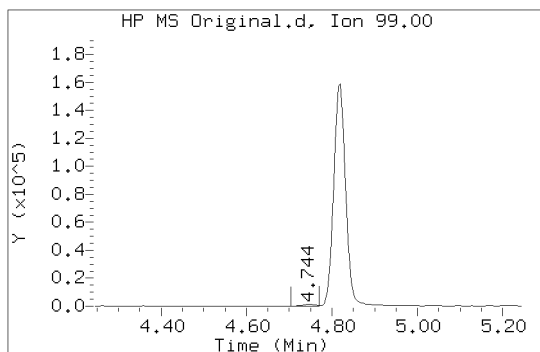
MASS
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AREA
4434
HEIGHT
1807
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linh
pham

**AFTER**

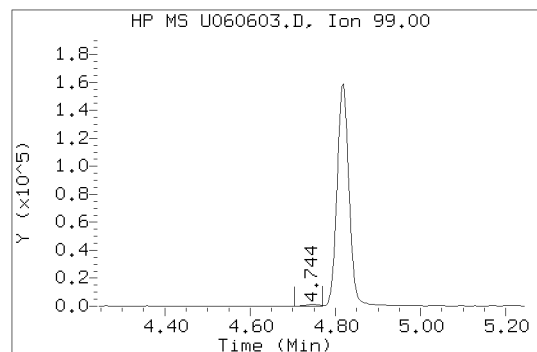
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HEIGHT
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13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

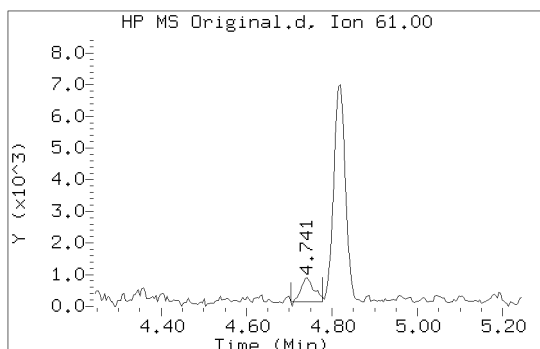
MASS
99
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2413
HEIGHT
1165
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14:56
linh
pham

**AFTER**

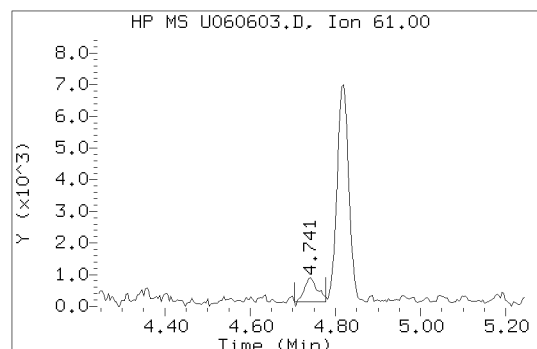
MASS
99
AREA
2413
HEIGHT
1165
13-Jun-2023
13:00
linh
pham

**BEFORE**

MASS
61
AREA
1649
HEIGHT
774
08-Jun-2023
14:56
linh
pham

**AFTER**

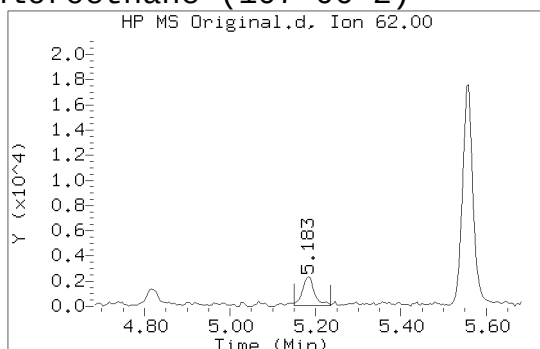
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13:00
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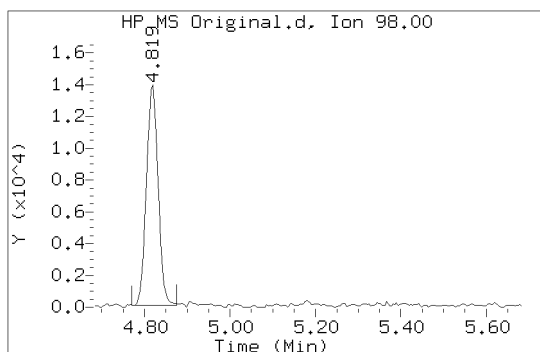
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2-Dichloroethane (107-06-2)**BEFORE**

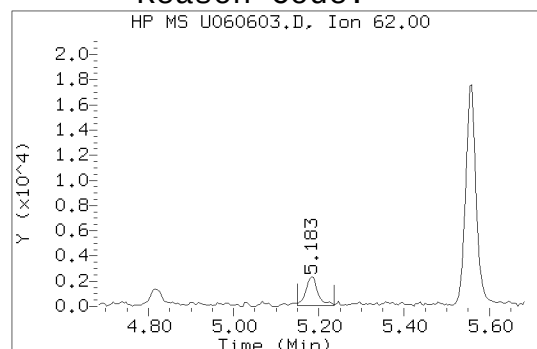
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AREA
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HEIGHT
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08-Jun-2023
14:56
linh

**BEFORE**

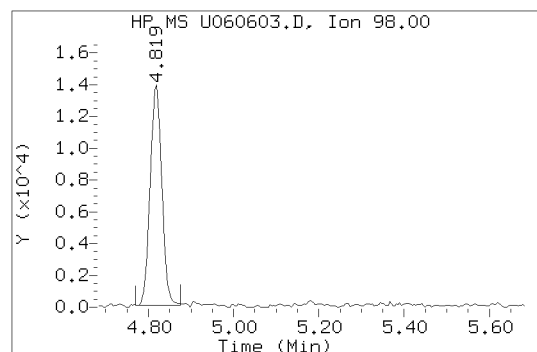
MASS
98
AREA
26343
HEIGHT
13869
08-Jun-2023
14:56
linh
pham

**AFTER**

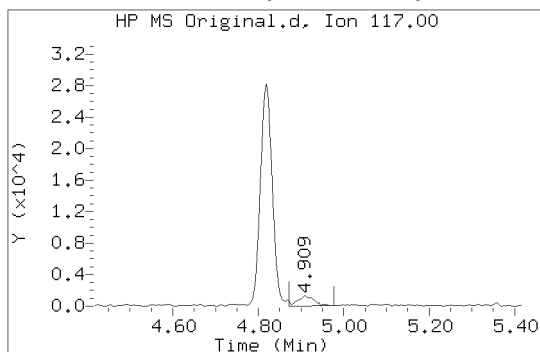
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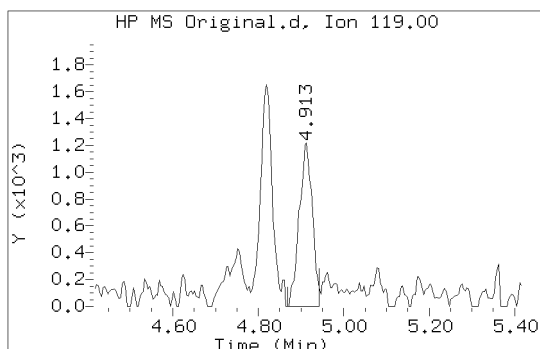
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13:00
linh
pham

**Reason Code:****Carbon Tetrachloride (56-23-5)****BEFORE**

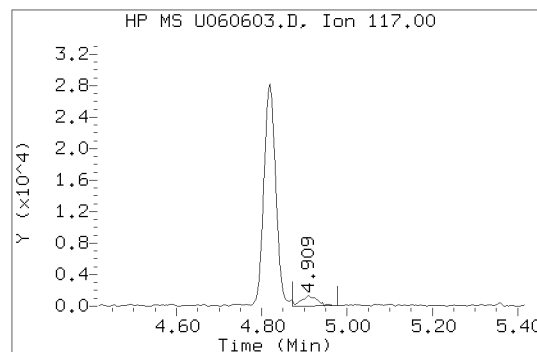
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14:56
linh
pham

**BEFORE**

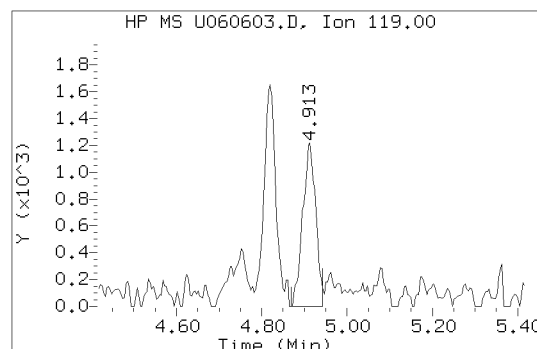
MASS
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HEIGHT
1217
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
117
AREA
3518
HEIGHT
1311
13-Jun-2023
13:00
linh
pham

**AFTER**

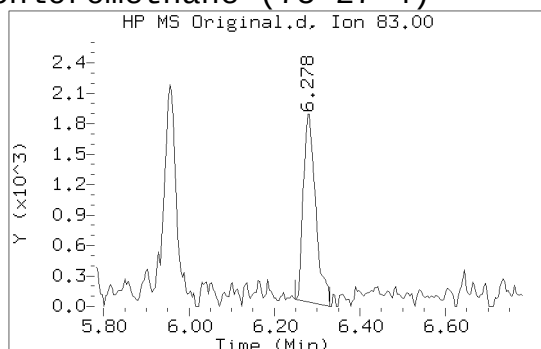
MASS
119
AREA
2642
HEIGHT
1217
13-Jun-2023
13:00
linh
pham

**Reason Code:**

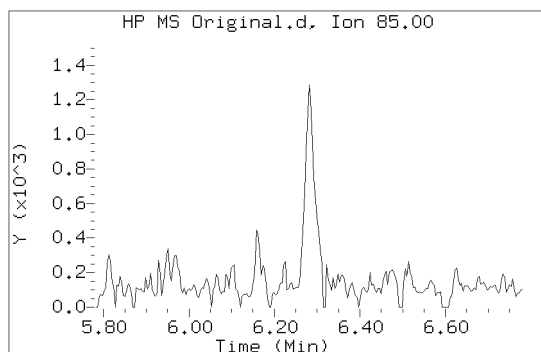
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Bromodichloromethane (75-27-4)**BEFORE**

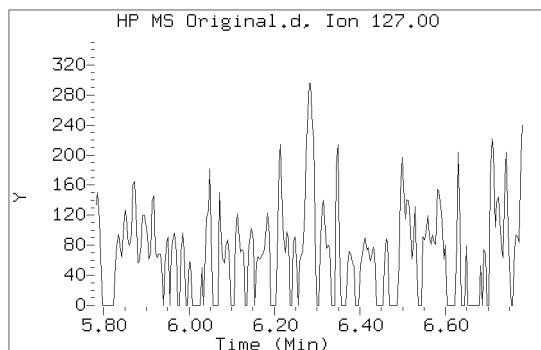
MASS
83
AREA
3797
HEIGHT
1853
08-Jun-2023
14:56
linh

**BEFORE**

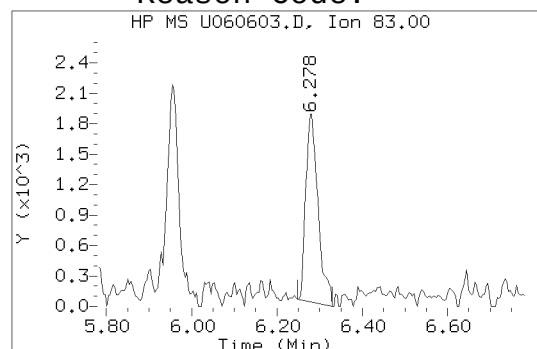
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**BEFORE**

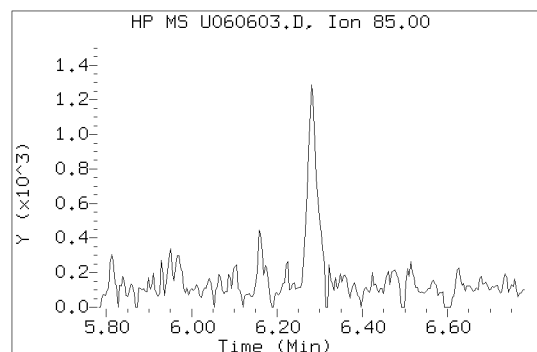
MASS
127
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

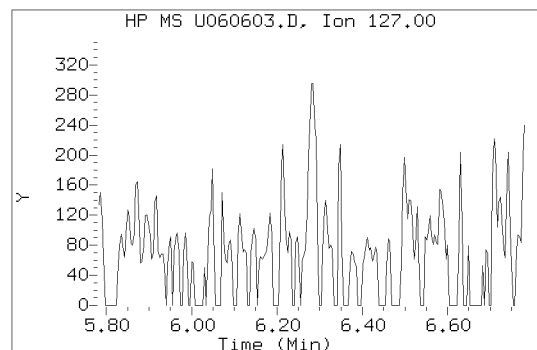
MASS
83
AREA
3797
HEIGHT
1853
13-Jun-2023
13:00
linh

**AFTER**

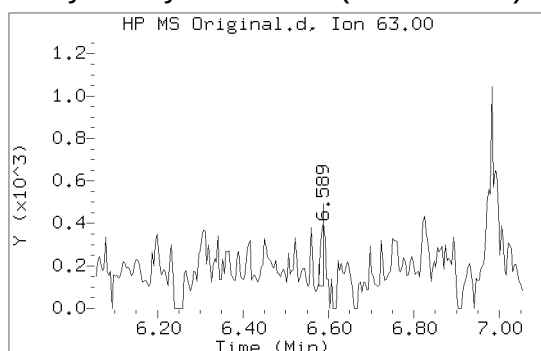
MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**AFTER**

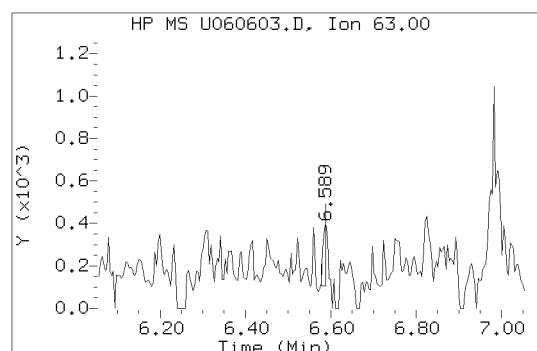
MASS
127
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**2-Chloroethylvinyl ether (110-75-8)****BEFORE**

MASS
63
AREA
169
HEIGHT
296
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

MASS
63
AREA
169
HEIGHT
296
13-Jun-2023
13:00
linh
pham

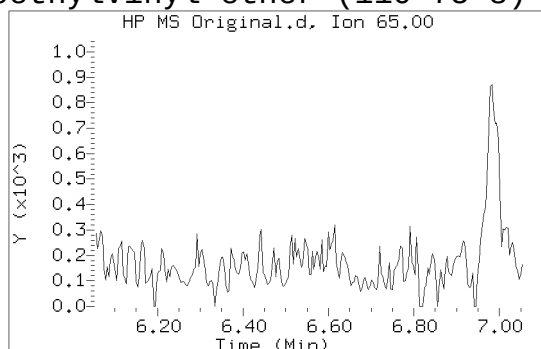


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Chloroethylvinyl ether (110-75-8)

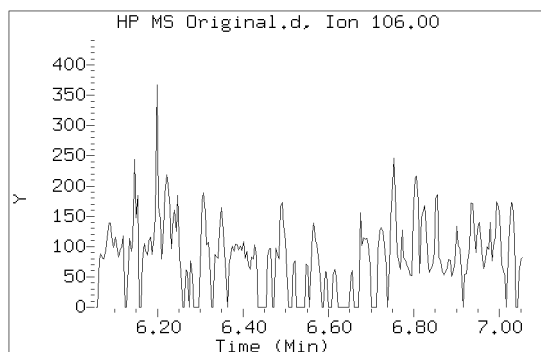
BEFORE

MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh



BEFORE

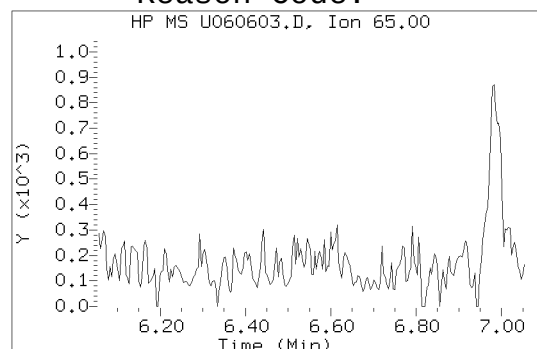
MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

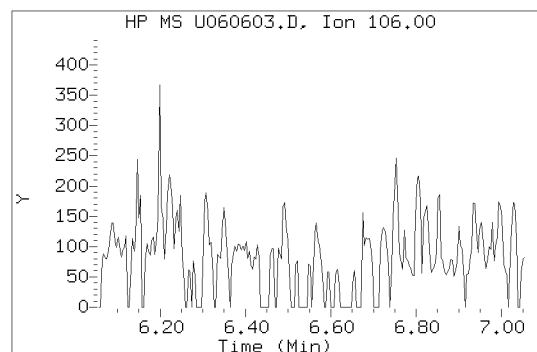
AFTER

MASS
65
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh



AFTER

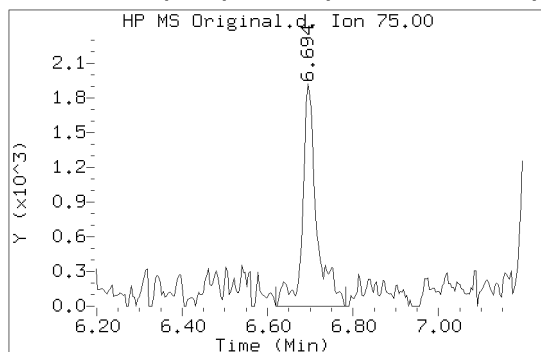
MASS
106
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



cis-1,3-Dichloropropene (10061-01-5)

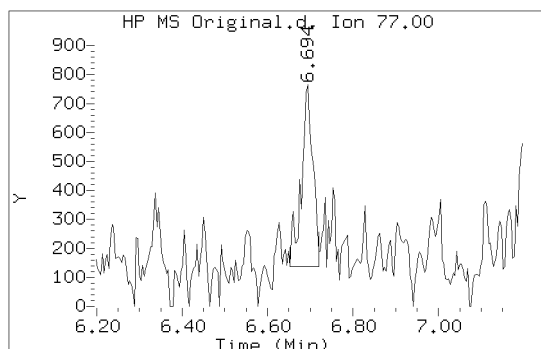
BEFORE

MASS
75
AREA
4533
HEIGHT
1923
08-Jun-2023
14:56
linh
pham



BEFORE

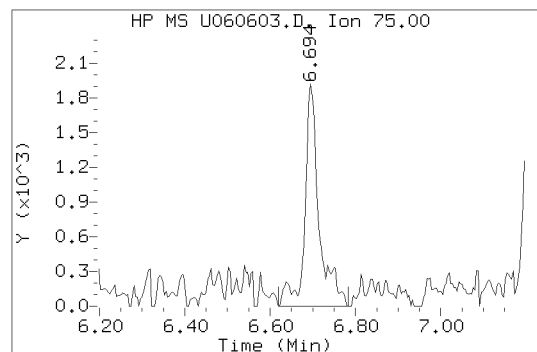
MASS
77
AREA
1180
HEIGHT
628
08-Jun-2023
14:56
linh
pham



Reason Code:

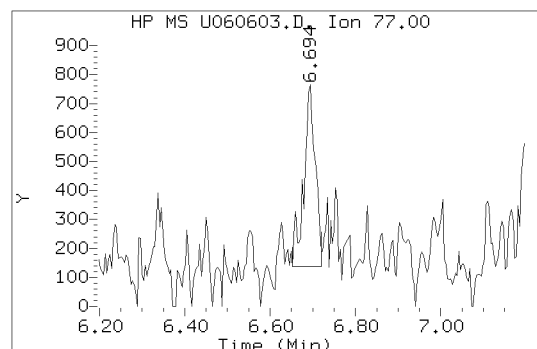
AFTER

MASS
75
AREA
4533
HEIGHT
1923
13-Jun-2023
13:00
linh
pham



AFTER

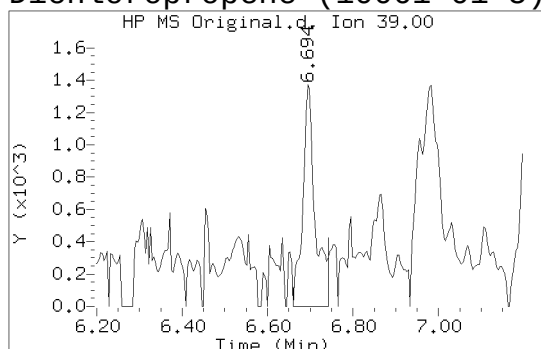
MASS
77
AREA
1180
HEIGHT
628
13-Jun-2023
13:00
linh
pham



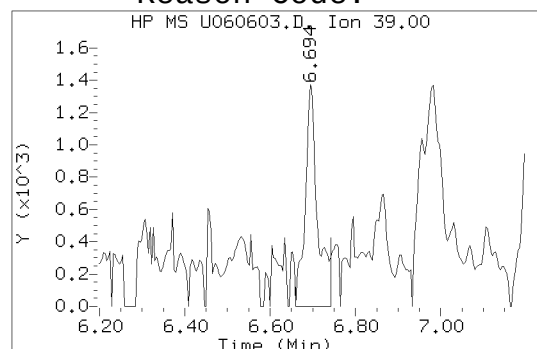
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

cis-1,3-Dichloropropene (10061-01-5)**BEFORE**

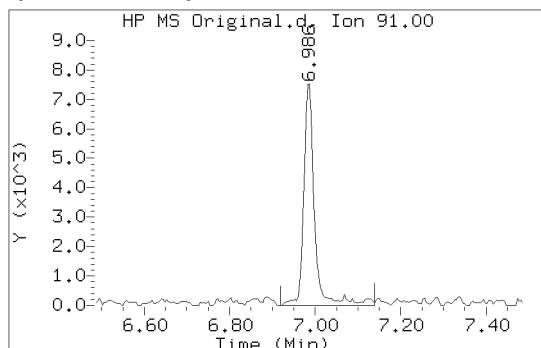
MASS
39
AREA
2809
HEIGHT
1372
08-Jun-2023
14:56
linh
pham

**AFTER**

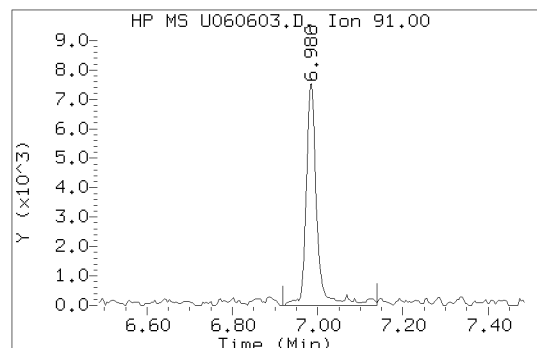
MASS
39
AREA
2809
HEIGHT
1372
13-Jun-2023
13:00
linh
pham

Reason Code:**Toluene (108-88-3)****BEFORE**

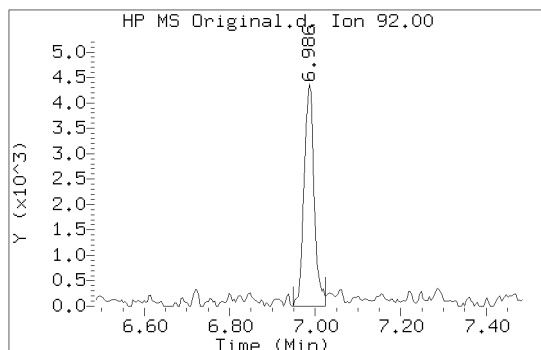
MASS
91
AREA
13471
HEIGHT
7534
08-Jun-2023
14:56
linh
pham

**AFTER**

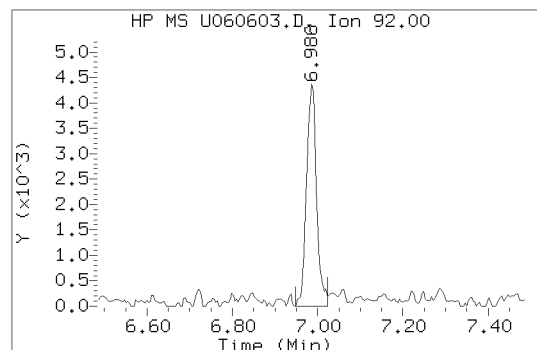
MASS
91
AREA
13471
HEIGHT
7534
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

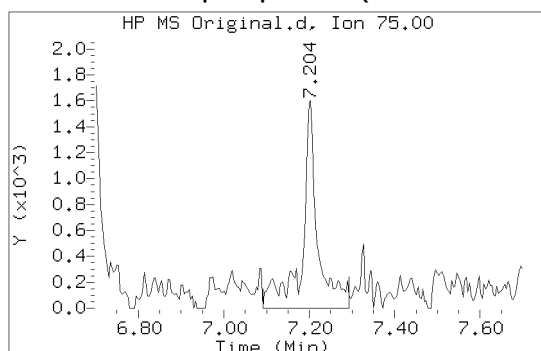
MASS
92
AREA
7328
HEIGHT
4373
08-Jun-2023
14:56
linh
pham

**AFTER**

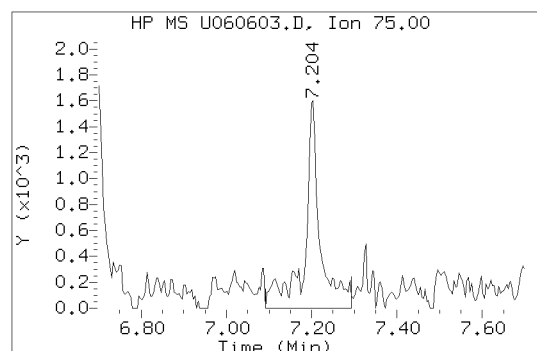
MASS
92
AREA
7328
HEIGHT
4373
13-Jun-2023
13:00
linh
pham

**trans-1,3-Dichloropropene (10061-02-6)****BEFORE**

MASS
75
AREA
4073
HEIGHT
1603
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
75
AREA
4073
HEIGHT
1603
13-Jun-2023
13:00
linh
pham

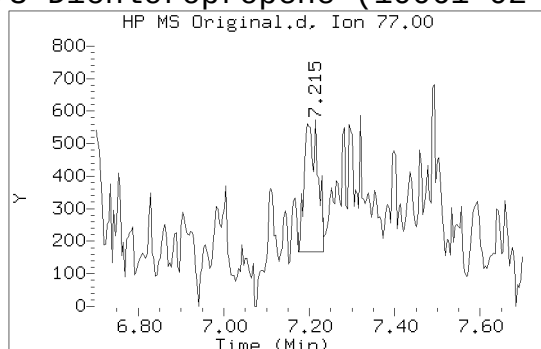
Reason Code:

Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
 Inj Date : 06-JUN-2023 11:37
 InstruID : VOA9.i
 LabSampID : VSTD000.5

trans-1,3-Dichloropropene (10061-02-6)

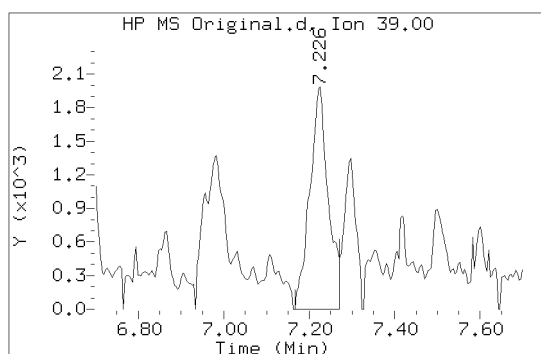
BEFORE

MASS
77
AREA
877
HEIGHT
407
08-Jun-2023
14:56
linh



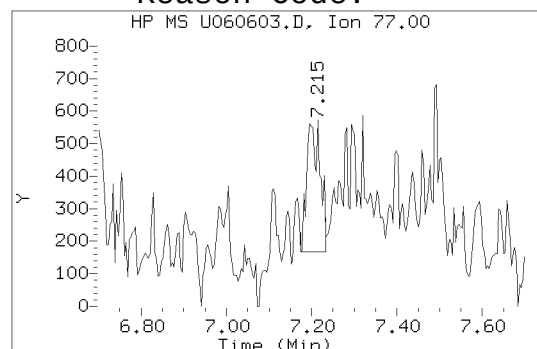
BEFORE

MASS
39
AREA
6017
HEIGHT
1985
08-Jun-2023
14:56
linh
pham



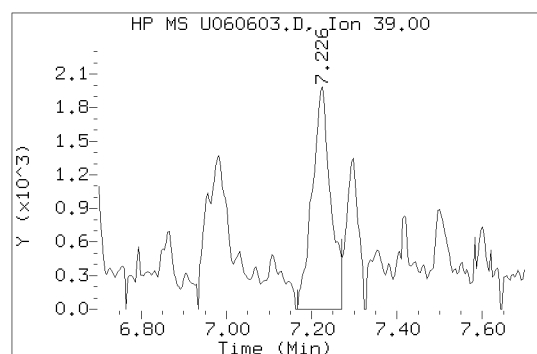
AFTER

MASS
77
AREA
877
HEIGHT
407
13-Jun-2023
13:00
linh



AFTER

MASS
39
AREA
6017
HEIGHT
1985
13-Jun-2023
13:00
linh
pham

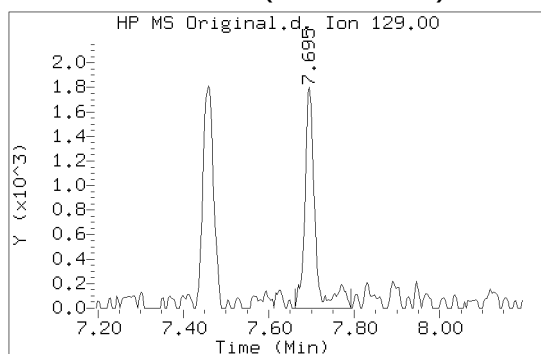


Reason Code:

Dibromochloromethane (124-48-1)

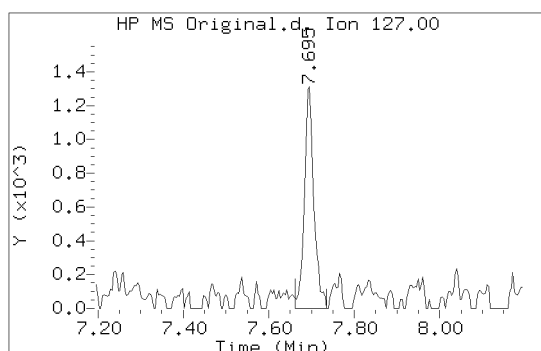
BEFORE

MASS
129
AREA
3068
HEIGHT
1800
08-Jun-2023
14:56
linh
pham



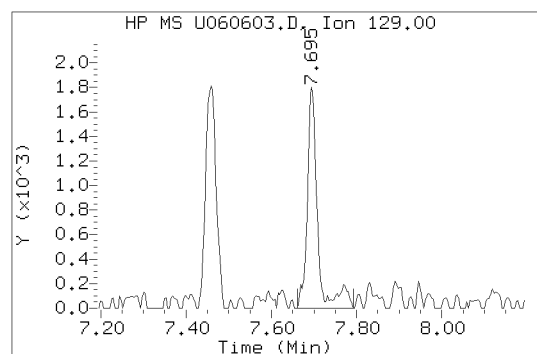
BEFORE

MASS
127
AREA
2055
HEIGHT
1312
08-Jun-2023
14:56
linh
pham



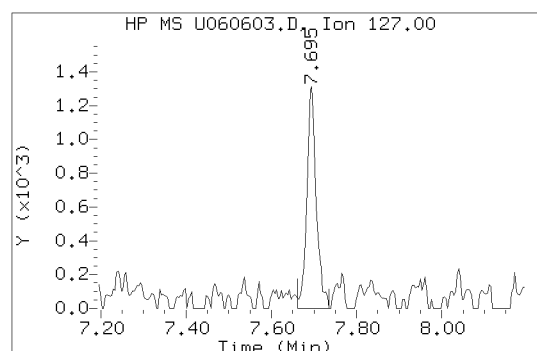
AFTER

MASS
129
AREA
3068
HEIGHT
1800
13-Jun-2023
13:00
linh
pham



AFTER

MASS
127
AREA
2055
HEIGHT
1312
13-Jun-2023
13:00
linh
pham

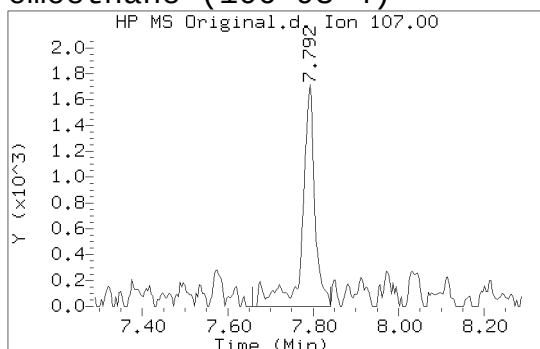


Reason Code:

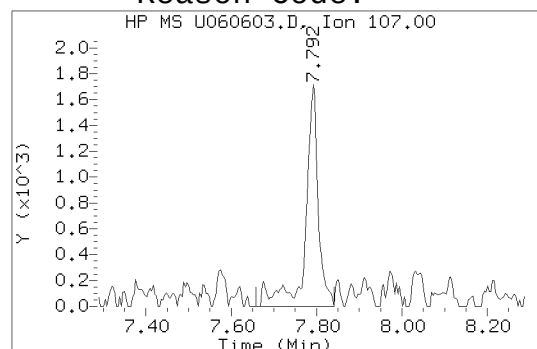
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2-Dibromoethane (106-93-4)**BEFORE**

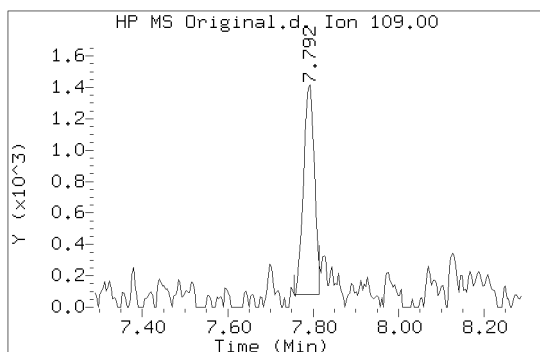
MASS
107
AREA
3622
HEIGHT
1715
08-Jun-2023
14:56
linh

**AFTER**

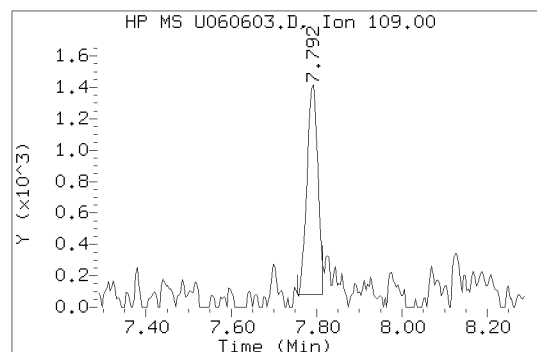
MASS
107
AREA
3622
HEIGHT
1715
13-Jun-2023
13:00
linh

**BEFORE**

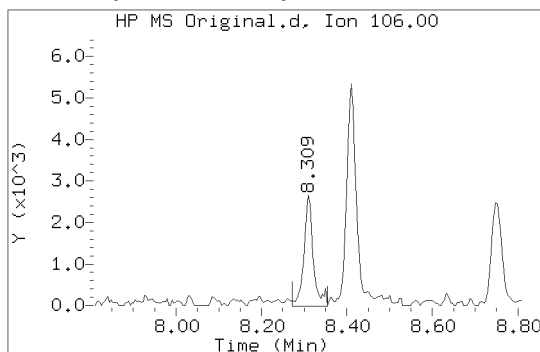
MASS
109
AREA
2422
HEIGHT
1334
08-Jun-2023
14:56
linh
pham

**AFTER**

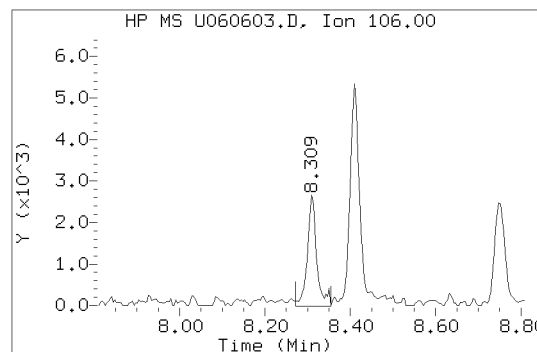
MASS
109
AREA
2422
HEIGHT
1334
13-Jun-2023
13:00
linh
pham

**Ethylbenzene (100-41-4)****BEFORE**

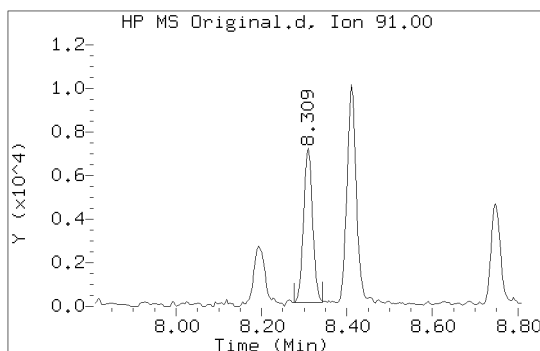
MASS
106
AREA
4142
HEIGHT
2674
08-Jun-2023
14:56
linh
pham

**AFTER**

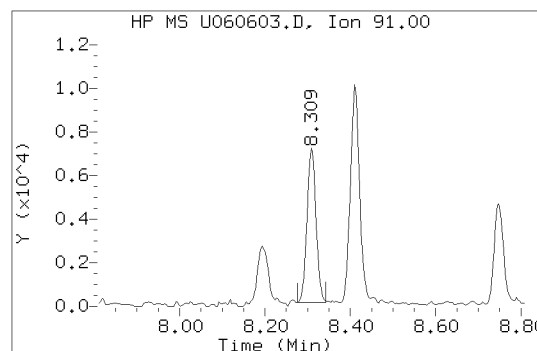
MASS
106
AREA
4142
HEIGHT
2674
13-Jun-2023
13:00
linh
pham

**BEFORE**

MASS
91
AREA
10611
HEIGHT
7101
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
91
AREA
10611
HEIGHT
7101
13-Jun-2023
13:00
linh
pham

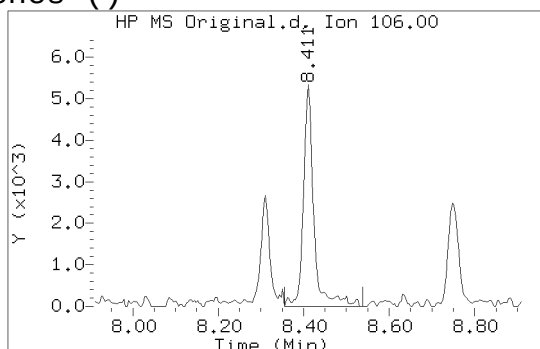


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

m,p-Xylenes ()

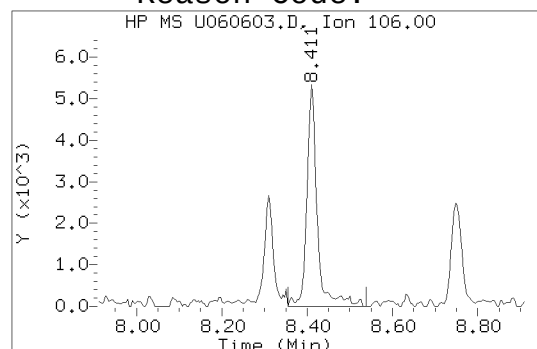
BEFORE

MASS
106
AREA
9164
HEIGHT
5338
08-Jun-2023
14:56
linh



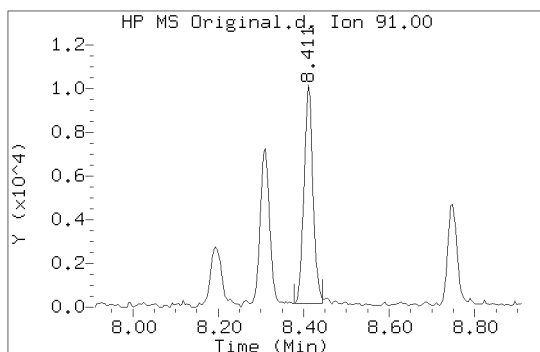
AFTER

MASS
106
AREA
9164
HEIGHT
5338
13-Jun-2023
13:00
linh



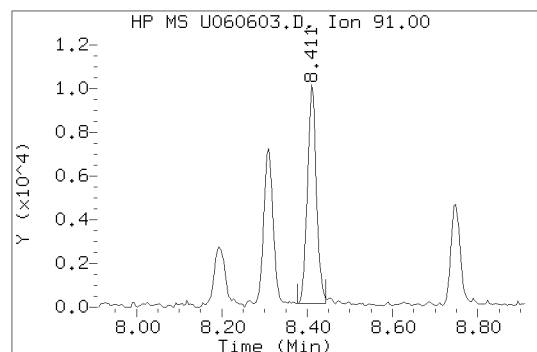
BEFORE

MASS
91
AREA
14815
HEIGHT
9979
08-Jun-2023
14:56
linh
pham



AFTER

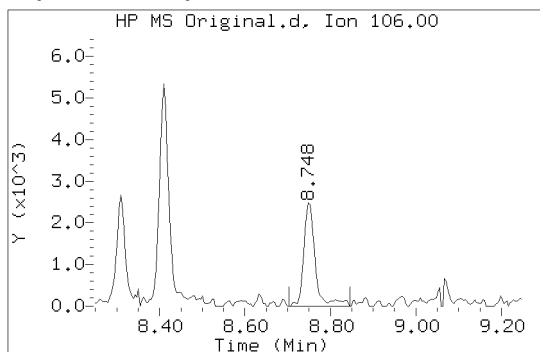
MASS
91
AREA
14815
HEIGHT
9979
13-Jun-2023
13:00
linh
pham



o-Xylene (95-47-6)

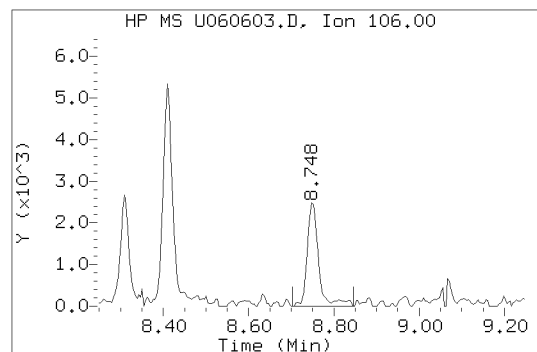
BEFORE

MASS
106
AREA
4736
HEIGHT
2481
08-Jun-2023
14:56
linh
pham



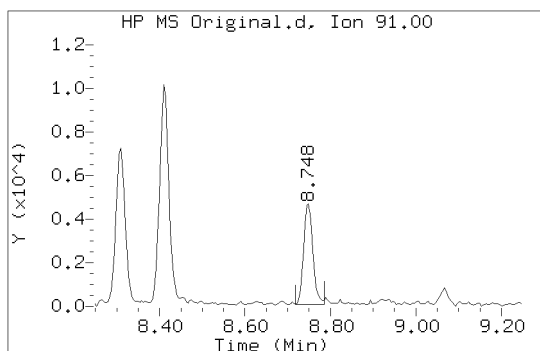
AFTER

MASS
106
AREA
4736
HEIGHT
2481
13-Jun-2023
13:00
linh
pham



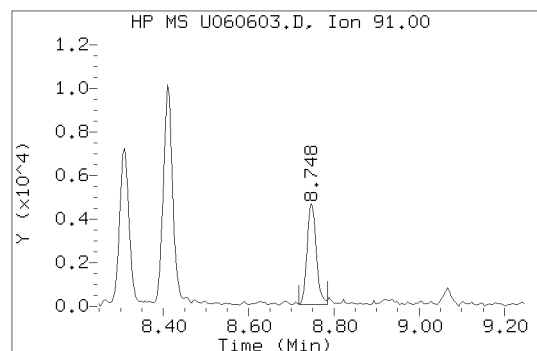
BEFORE

MASS
91
AREA
7145
HEIGHT
4614
08-Jun-2023
14:56
linh
pham



AFTER

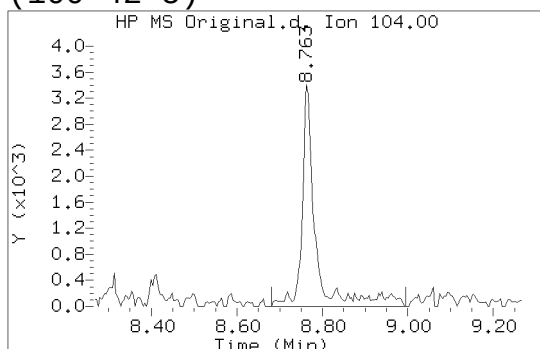
MASS
91
AREA
7145
HEIGHT
4614
13-Jun-2023
13:00
linh
pham



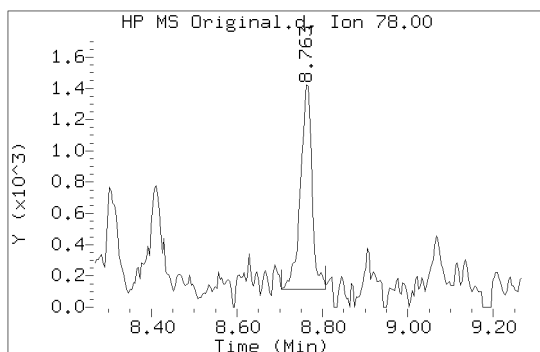
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Styrene (100-42-5)**BEFORE**

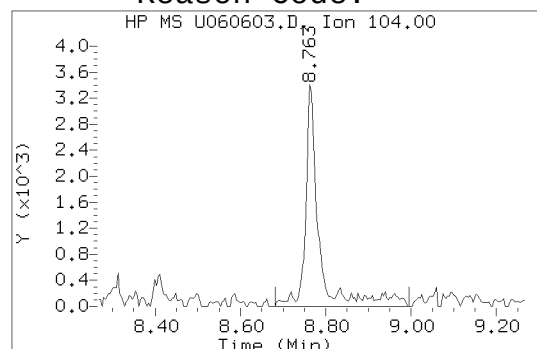
MASS
104
AREA
7547
HEIGHT
3407
08-Jun-2023
14:56
linh

**BEFORE**

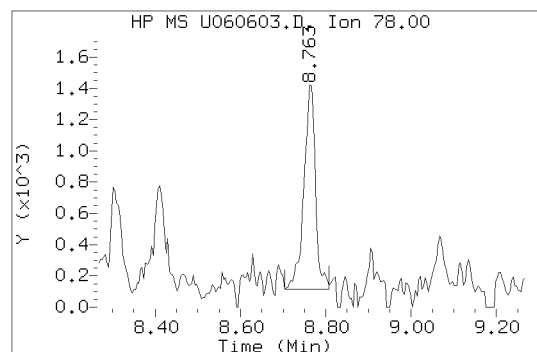
MASS
78
AREA
2506
HEIGHT
1307
08-Jun-2023
14:56
linh
pham

**AFTER**

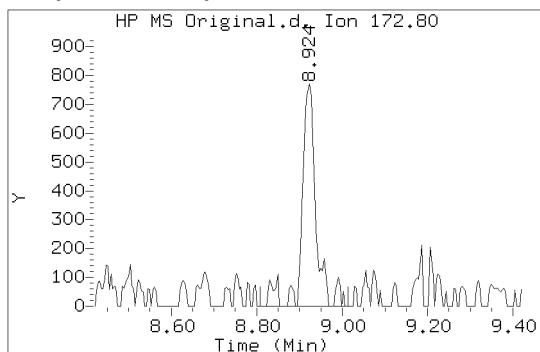
MASS
104
AREA
7547
HEIGHT
3407
13-Jun-2023
13:00
linh

**AFTER**

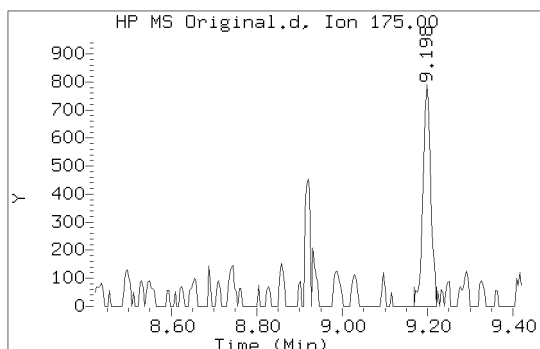
MASS
78
AREA
2506
HEIGHT
1307
13-Jun-2023
13:00
linh
pham

**Reason Code:****Bromoform (75-25-2)****BEFORE**

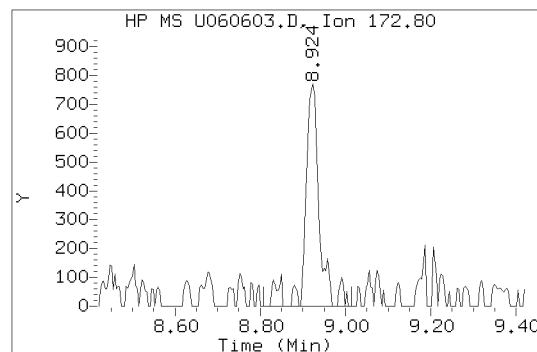
MASS
172.8
AREA
1797
HEIGHT
771
08-Jun-2023
14:56
linh
pham

**BEFORE**

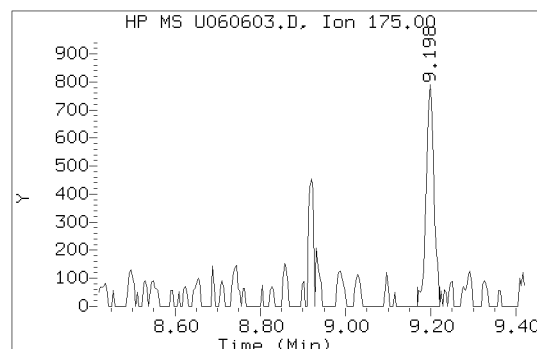
MASS
175
AREA
1005
HEIGHT
790
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
172.8
AREA
1797
HEIGHT
771
13-Jun-2023
13:00
linh
pham

**AFTER**

MASS
175
AREA
1005
HEIGHT
790
13-Jun-2023
13:00
linh
pham

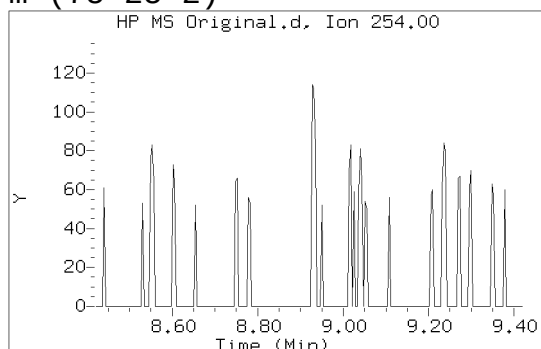
**Reason Code:**

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
 Inj Date : 06-JUN-2023 11:37
 InstruID : VOA9.i
 LabSampID : VSTD000.5

Bromoform (75-25-2)

BEFORE

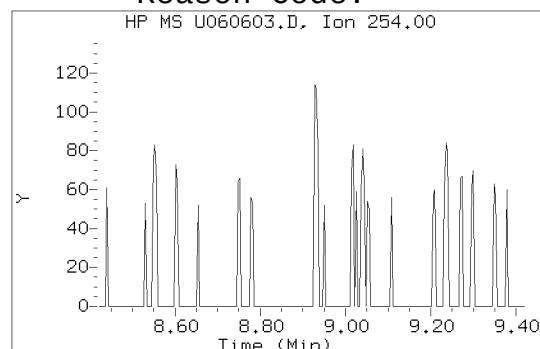
MASS
254
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
254
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

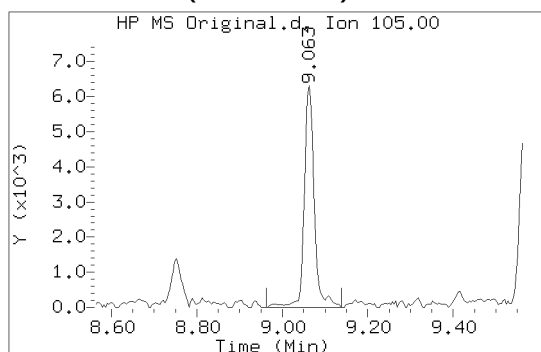
Reason Code:



Isopropylbenzene (98-82-8)

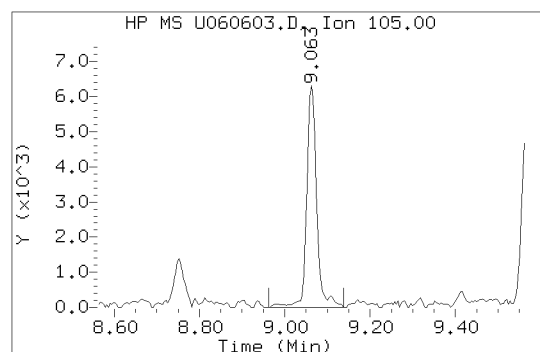
BEFORE

MASS
105
AREA
10525
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



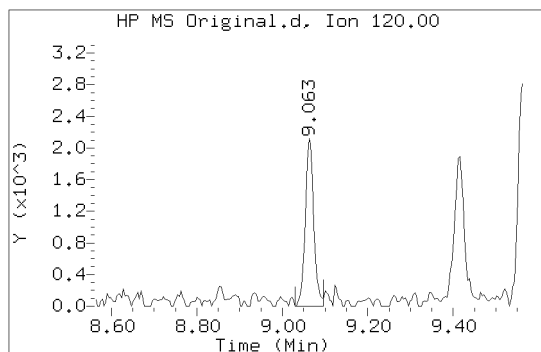
AFTER

MASS
105
AREA
10525
HEIGHT
6310
13-Jun-2023
13:00
linh
pham



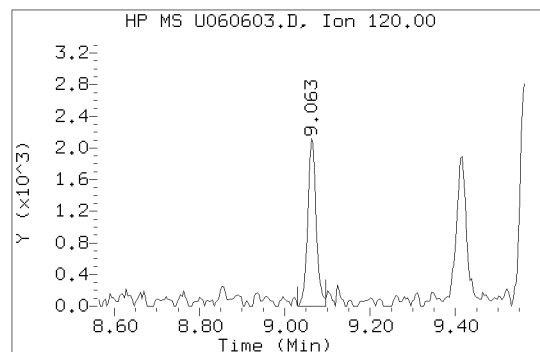
BEFORE

MASS
120
AREA
2979
HEIGHT
2122
08-Jun-2023
14:56
linh
pham



AFTER

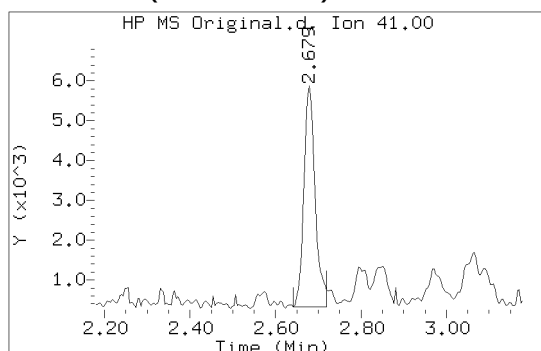
MASS
120
AREA
2979
HEIGHT
2122
13-Jun-2023
13:00
linh
pham



Allyl Chloride (107-05-1)

BEFORE

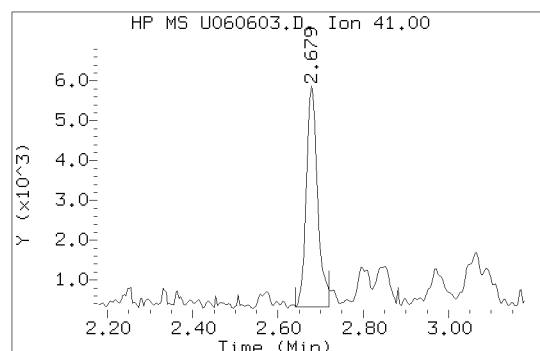
MASS
41
AREA
10377
HEIGHT
5545
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
10377
HEIGHT
5545
13-Jun-2023
13:00
linh
pham

Reason Code:

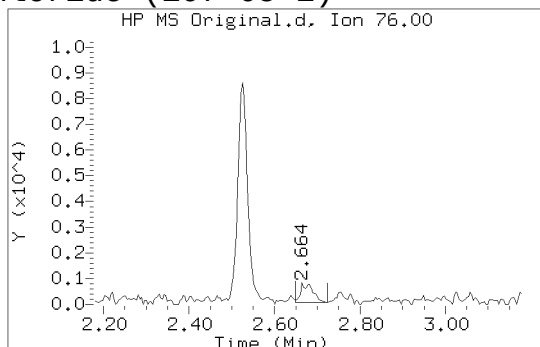


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Allyl Chloride (107-05-1)

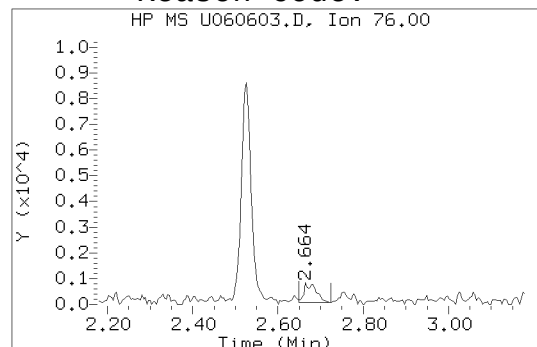
BEFORE

MASS
76
AREA
1452
HEIGHT
753
08-Jun-2023
14:56
linh
pham



AFTER

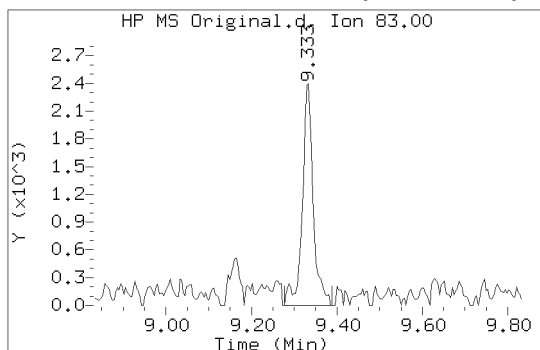
MASS
76
AREA
1452
HEIGHT
753
13-Jun-2023
13:00
linh
pham



1,1,2,2-Tetrachloroethane (79-34-5)

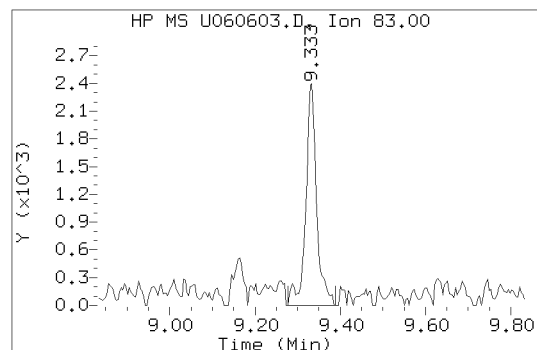
BEFORE

MASS
83
AREA
4333
HEIGHT
2397
08-Jun-2023
14:56
linh
pham



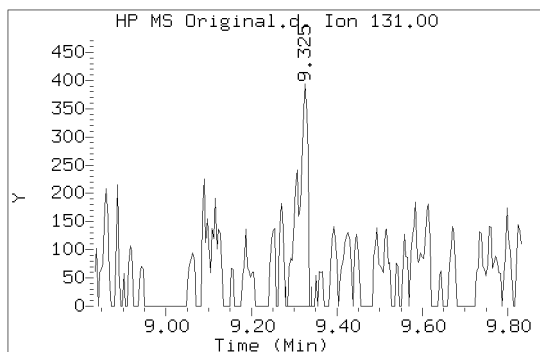
AFTER

MASS
83
AREA
4333
HEIGHT
2397
13-Jun-2023
13:00
linh
pham



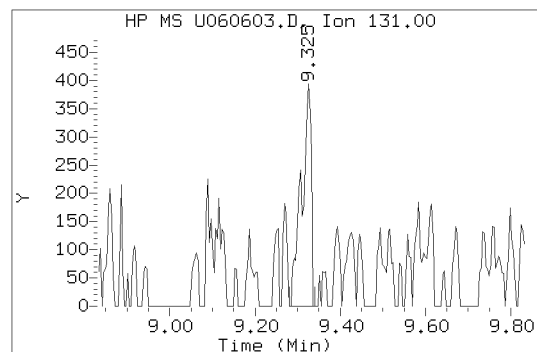
BEFORE

MASS
131
AREA
624
HEIGHT
394
08-Jun-2023
14:56
linh
pham



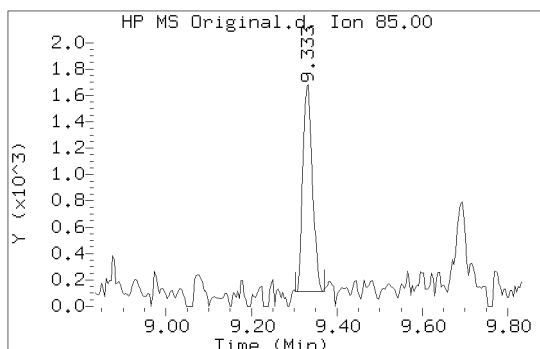
AFTER

MASS
131
AREA
624
HEIGHT
394
13-Jun-2023
13:00
linh
pham



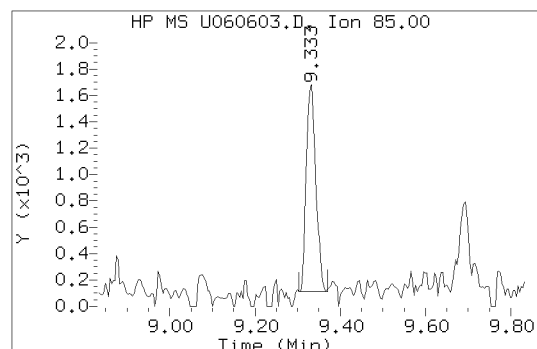
BEFORE

MASS
85
AREA
2508
HEIGHT
1568
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
2508
HEIGHT
1568
13-Jun-2023
13:00
linh
pham

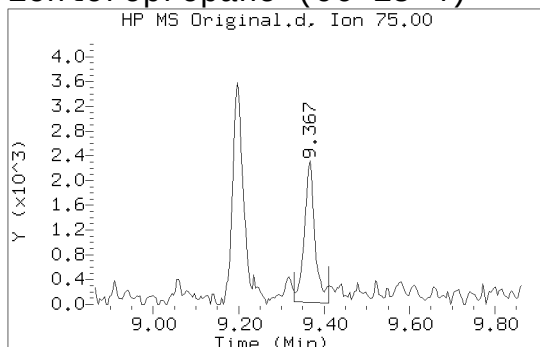


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

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

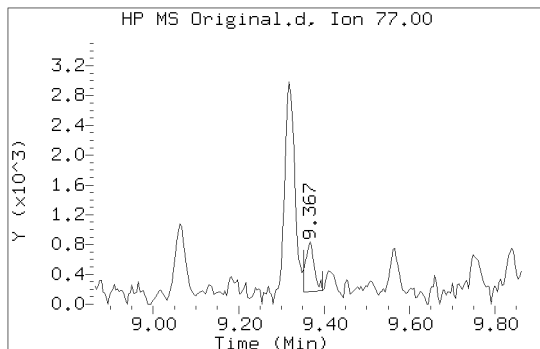
BEFORE

MASS
75
AREA
4089
HEIGHT
2289
08-Jun-2023
14:56
linh



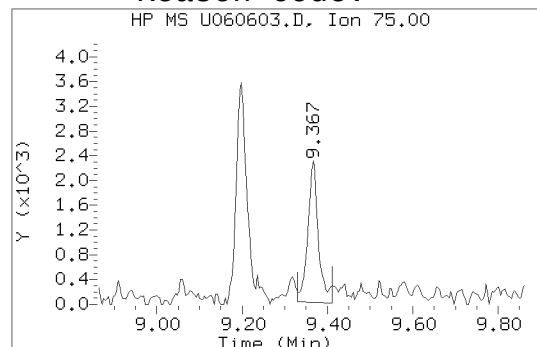
BEFORE

MASS
77
AREA
963
HEIGHT
669
08-Jun-2023
14:56
linh
pham



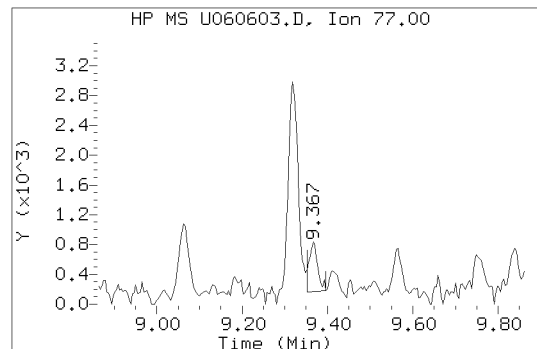
AFTER

MASS
75
AREA
4089
HEIGHT
2289
13-Jun-2023
13:00
linh



AFTER

MASS
77
AREA
963
HEIGHT
669
13-Jun-2023
13:00
linh
pham

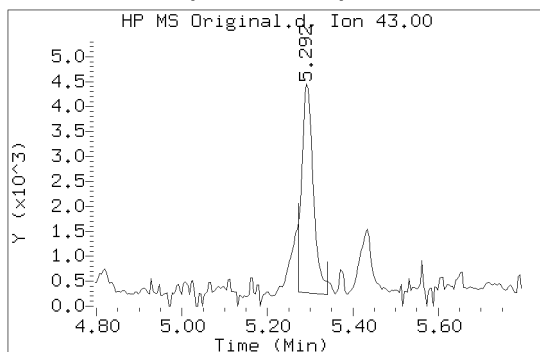


Reason Code:

Isobutyl Alcohol (78-83-1)

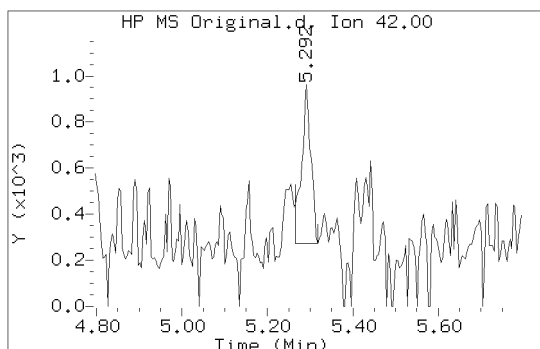
BEFORE

MASS
43
AREA
8062
HEIGHT
4185
08-Jun-2023
14:56
linh
pham



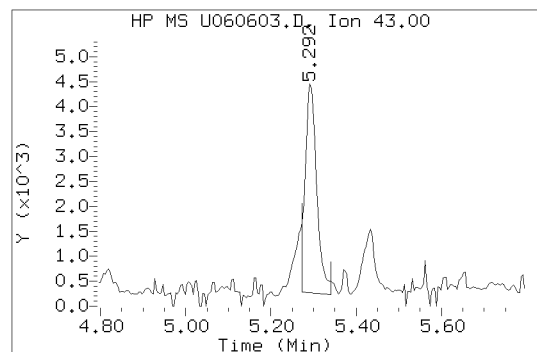
BEFORE

MASS
42
AREA
1073
HEIGHT
689
08-Jun-2023
14:56
linh
pham



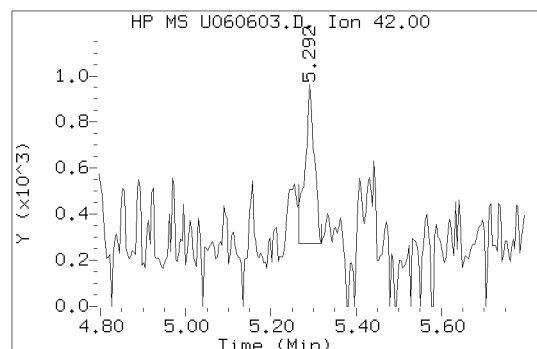
AFTER

MASS
43
AREA
8062
HEIGHT
4185
13-Jun-2023
13:00
linh
pham



AFTER

MASS
42
AREA
1073
HEIGHT
689
13-Jun-2023
13:00
linh
pham



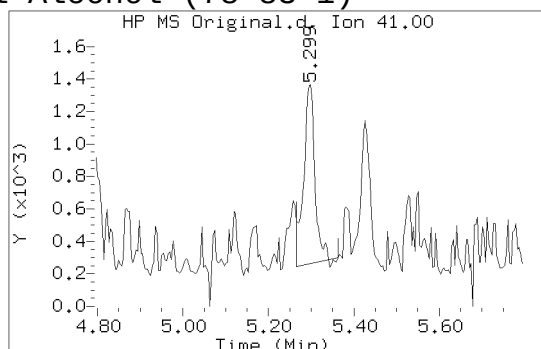
Reason Code:



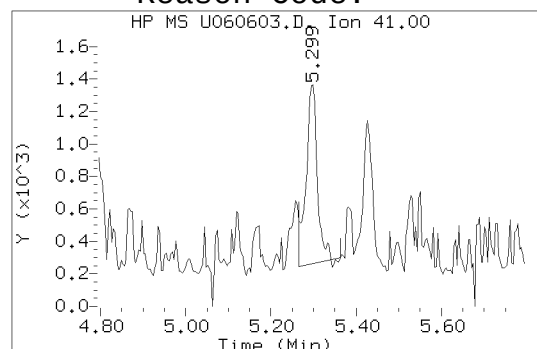
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Isobutyl Alcohol (78-83-1)**BEFORE**

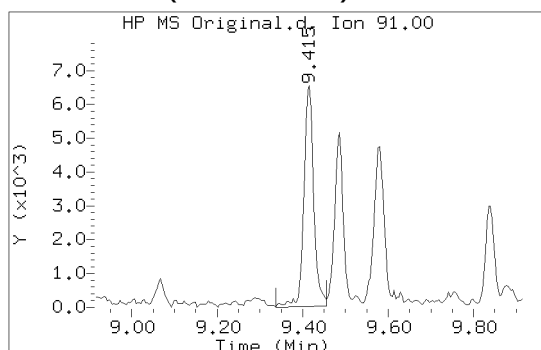
MASS
41
AREA
2043
HEIGHT
1100
08-Jun-2023
14:56
linh
pham

**AFTER**

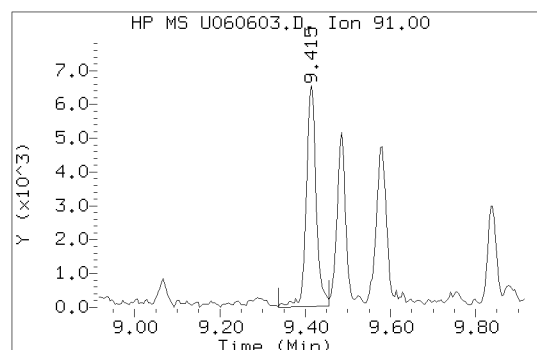
MASS
41
AREA
2043
HEIGHT
1100
13-Jun-2023
13:00
linh
pham

Reason Code:**n-Propylbenzene (106-65-1)****BEFORE**

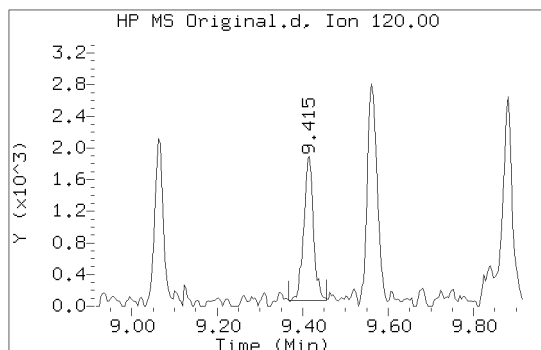
MASS
91
AREA
10721
HEIGHT
6532
08-Jun-2023
14:56
linh
pham

**AFTER**

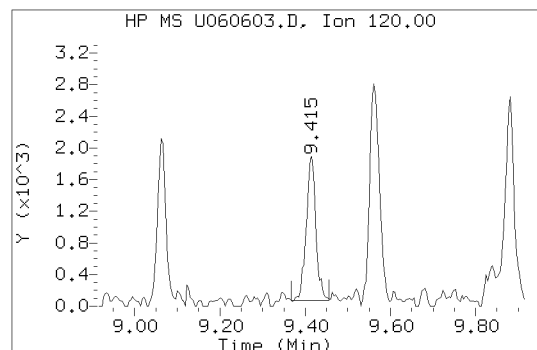
MASS
91
AREA
10721
HEIGHT
6532
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

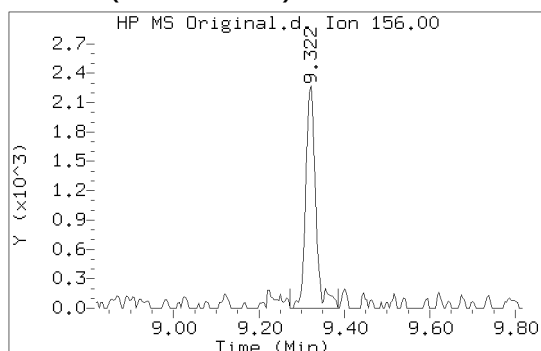
MASS
120
AREA
2911
HEIGHT
1823
08-Jun-2023
14:56
linh
pham

**AFTER**

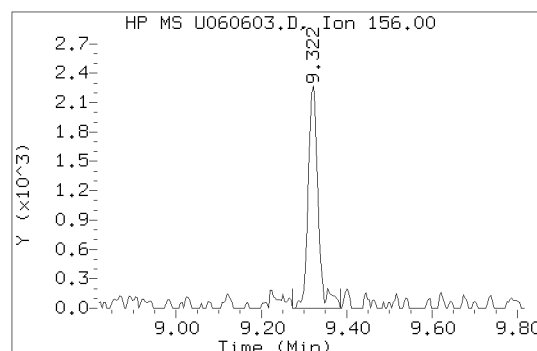
MASS
120
AREA
2911
HEIGHT
1823
13-Jun-2023
13:00
linh
pham

**Bromobenzene (108-86-1)****BEFORE**

MASS
156
AREA
3800
HEIGHT
2270
08-Jun-2023
14:56
linh
pham

**AFTER**

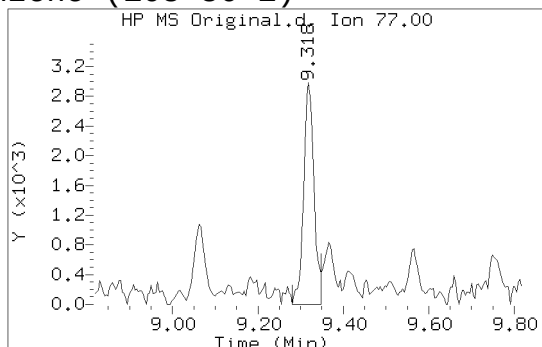
MASS
156
AREA
3800
HEIGHT
2270
13-Jun-2023
13:00
linh
pham

Reason Code:

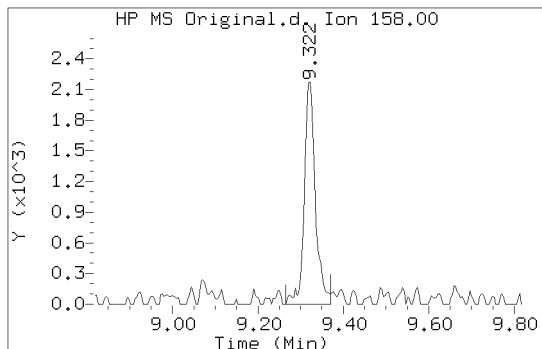
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Bromobenzene (108-86-1)**BEFORE**

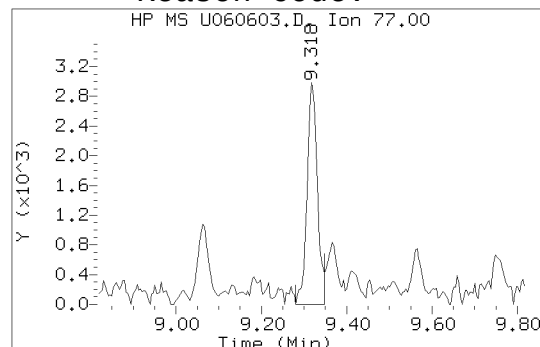
MASS
77
AREA
5137
HEIGHT
2983
08-Jun-2023
14:56
linh

**BEFORE**

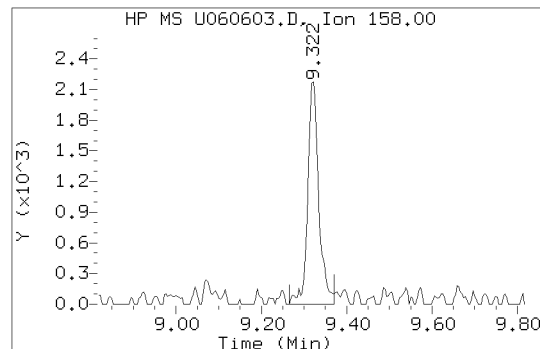
MASS
158
AREA
4021
HEIGHT
2175
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

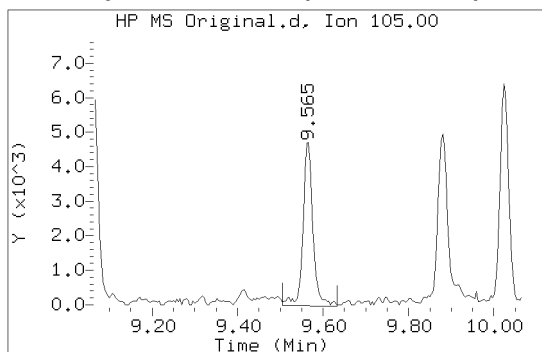
MASS
77
AREA
5137
HEIGHT
2983
13-Jun-2023
13:00
linh

**AFTER**

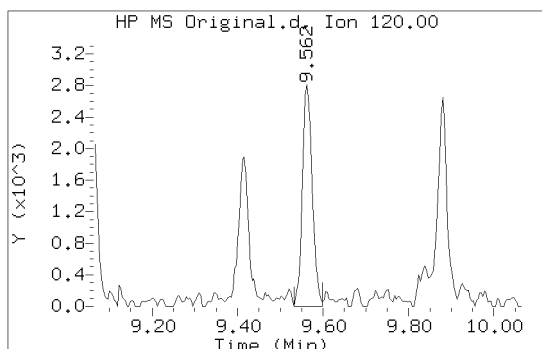
MASS
158
AREA
4021
HEIGHT
2175
13-Jun-2023
13:00
linh
pham

**1,3,5-Trimethylbenzene (108-67-8)****BEFORE**

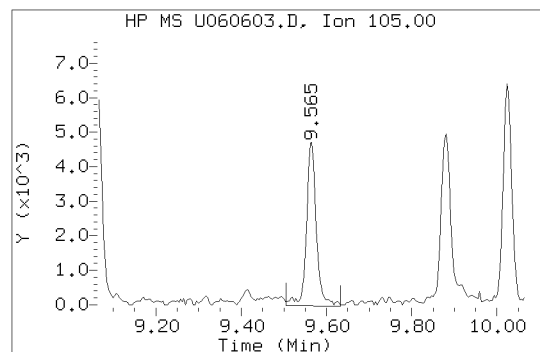
MASS
105
AREA
7820
HEIGHT
4732
08-Jun-2023
14:56
linh
pham

**BEFORE**

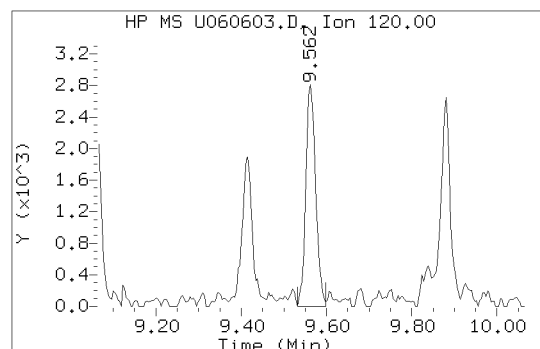
MASS
120
AREA
4592
HEIGHT
2810
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

MASS
105
AREA
7820
HEIGHT
4732
13-Jun-2023
13:00
linh
pham

**AFTER**

MASS
120
AREA
4592
HEIGHT
2810
13-Jun-2023
13:00
linh
pham

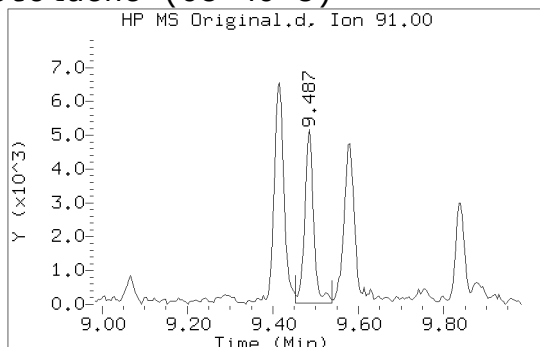


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

2-Chlorotoluene (95-49-8)

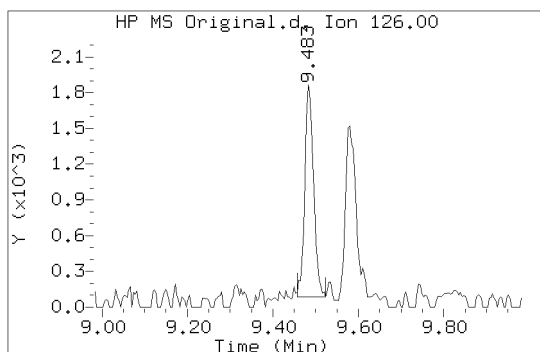
BEFORE

MASS
91
AREA
7551
HEIGHT
5138
08-Jun-2023
14:56
linh



BEFORE

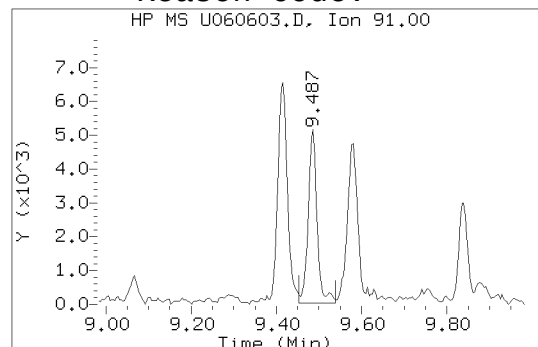
MASS
126
AREA
2589
HEIGHT
1779
08-Jun-2023
14:56
linh
pham



Reason Code:

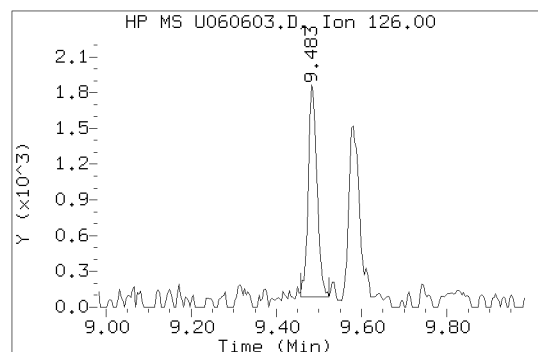
AFTER

MASS
91
AREA
7551
HEIGHT
5138
13-Jun-2023
13:00
linh



AFTER

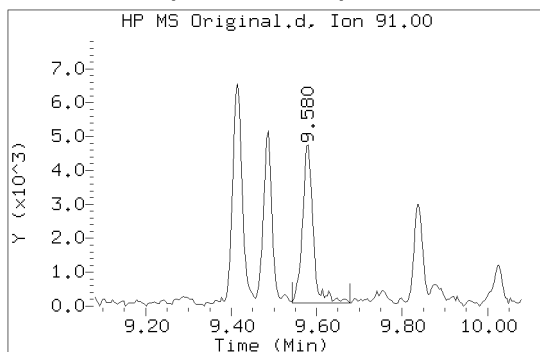
MASS
126
AREA
2589
HEIGHT
1779
13-Jun-2023
13:00
linh
pham



4-Chlorotoluene (106-43-4)

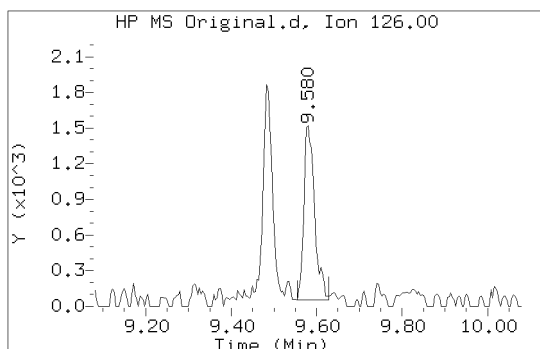
BEFORE

MASS
91
AREA
8243
HEIGHT
4662
08-Jun-2023
14:56
linh
pham



BEFORE

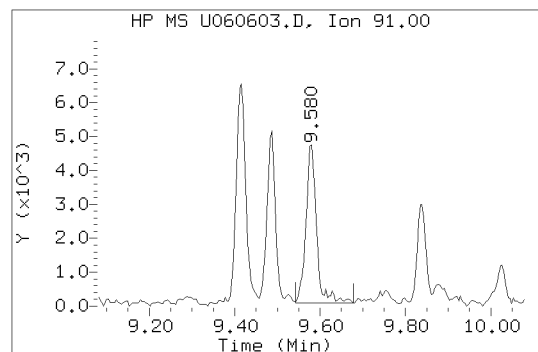
MASS
126
AREA
2606
HEIGHT
1467
08-Jun-2023
14:56
linh
pham



Reason Code:

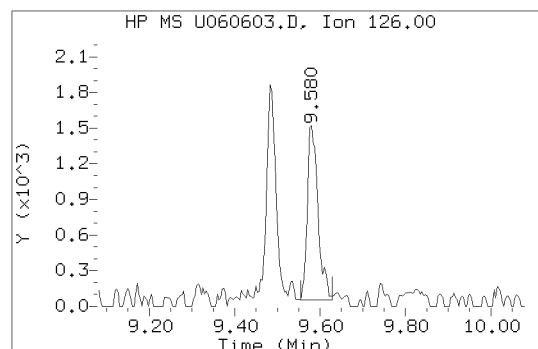
AFTER

MASS
91
AREA
8243
HEIGHT
4662
13-Jun-2023
13:00
linh
pham



AFTER

MASS
126
AREA
2606
HEIGHT
1467
13-Jun-2023
13:00
linh
pham

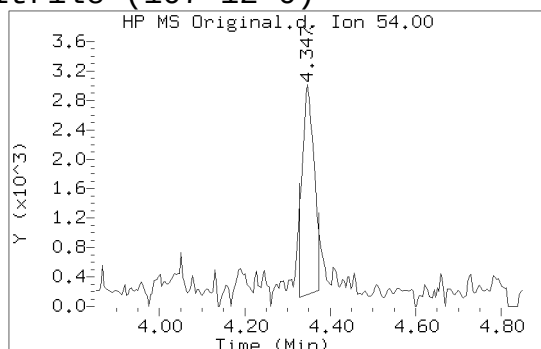


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

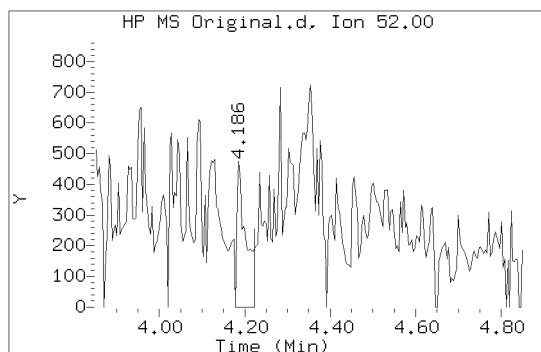
BEFORE

MASS
54
AREA
5579
HEIGHT
2848
08-Jun-2023
14:56
linh



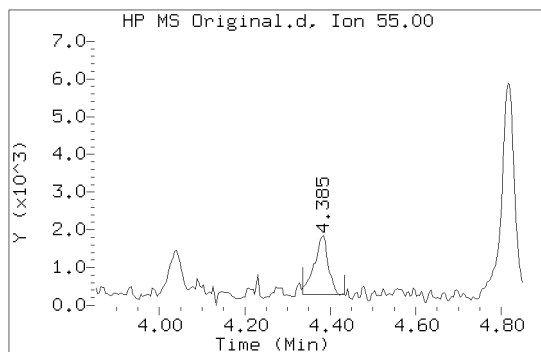
BEFORE

MASS
52
AREA
706
HEIGHT
475
08-Jun-2023
14:56
linh
pham



BEFORE

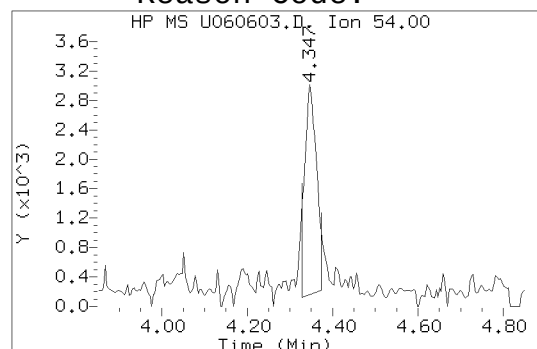
MASS
55
AREA
3548
HEIGHT
1559
08-Jun-2023
14:56
linh
pham



Reason Code:

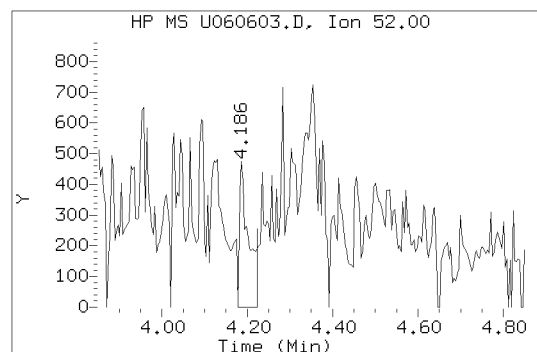
AFTER

MASS
54
AREA
5579
HEIGHT
2848
13-Jun-2023
13:00
linh



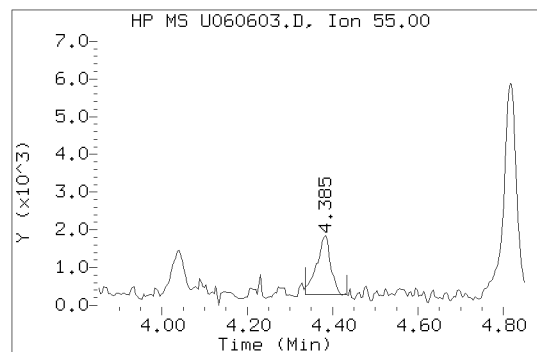
AFTER

MASS
52
AREA
706
HEIGHT
475
13-Jun-2023
13:00
linh
pham



AFTER

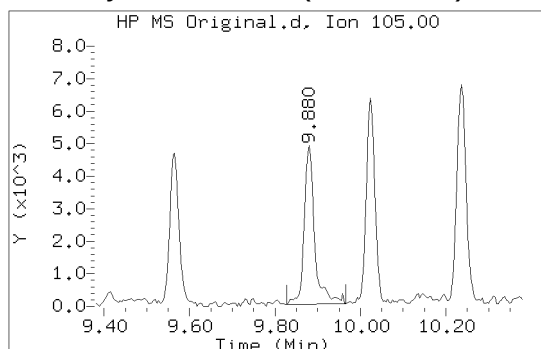
MASS
55
AREA
3548
HEIGHT
1559
13-Jun-2023
13:00
linh
pham



1,2,4-Trimethylbenzene (95-63-6)

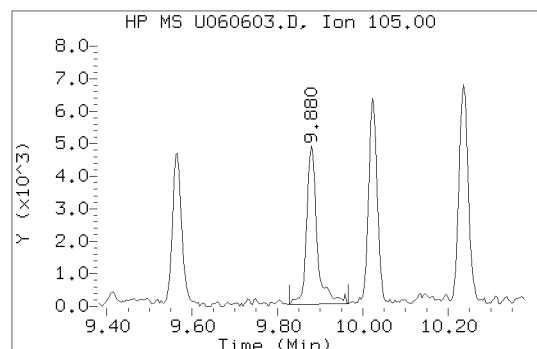
BEFORE

MASS
105
AREA
8548
HEIGHT
4875
08-Jun-2023
14:56
linh
pham



AFTER

MASS
105
AREA
8548
HEIGHT
4875
13-Jun-2023
13:00
linh
pham

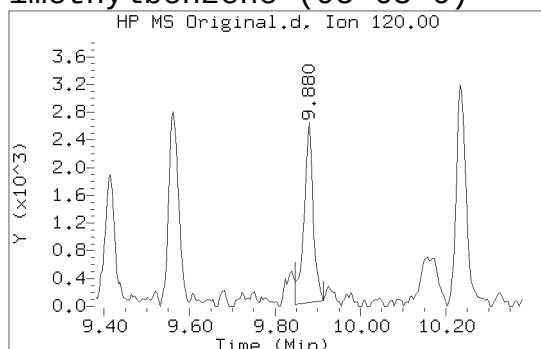


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
 Inj Date : 06-JUN-2023 11:37
 InstruID : VOA9.i
 LabSampID : VSTD000.5

1,2,4-Trimethylbenzene (95-63-6)

BEFORE

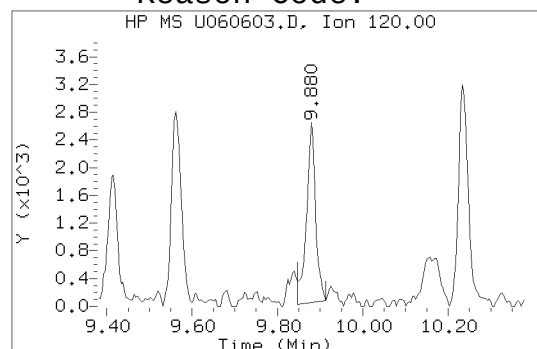
MASS
120
AREA
3975
HEIGHT
2592
08-Jun-2023
14:56
linh
pham



AFTER

MASS
120
AREA
3975
HEIGHT
2592
13-Jun-2023
13:00
linh
pham

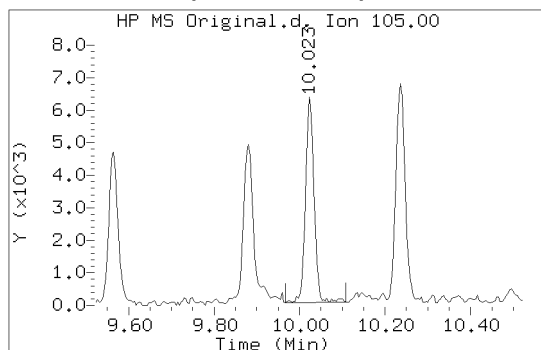
Reason Code:



sec-Butylbenzene (135-98-8)

BEFORE

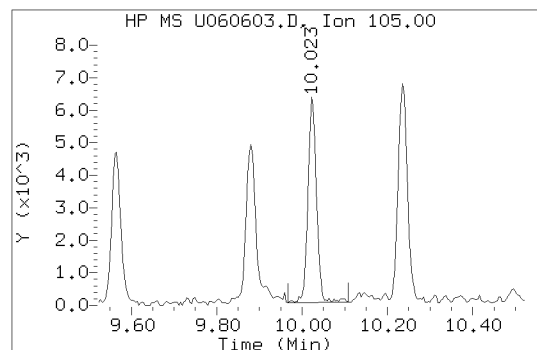
MASS
105
AREA
9131
HEIGHT
6310
08-Jun-2023
14:56
linh
pham



AFTER

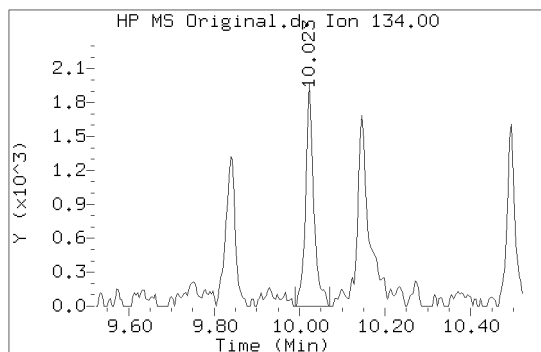
MASS
105
AREA
9131
HEIGHT
6310
13-Jun-2023
13:00
linh
pham

Reason Code:



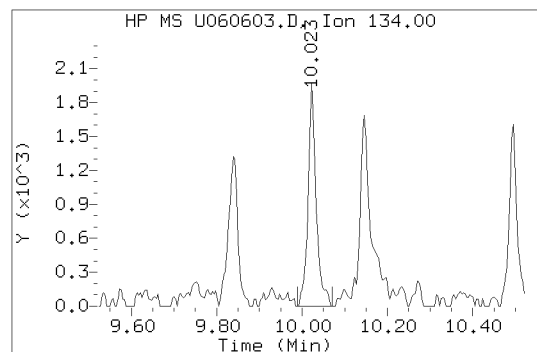
BEFORE

MASS
134
AREA
2687
HEIGHT
1965
08-Jun-2023
14:56
linh
pham



AFTER

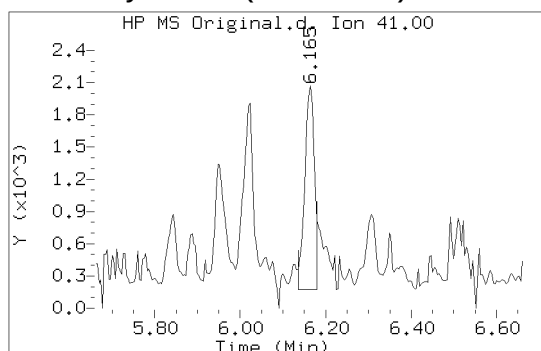
MASS
134
AREA
2687
HEIGHT
1965
13-Jun-2023
13:00
linh
pham



Methyl Methacrylate (80-62-6)

BEFORE

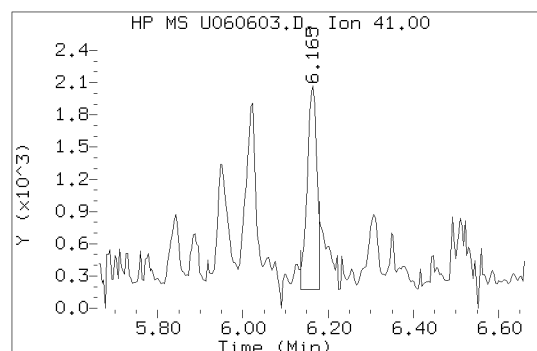
MASS
41
AREA
3083
HEIGHT
1894
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
3083
HEIGHT
1894
13-Jun-2023
13:00
linh
pham

Reason Code:

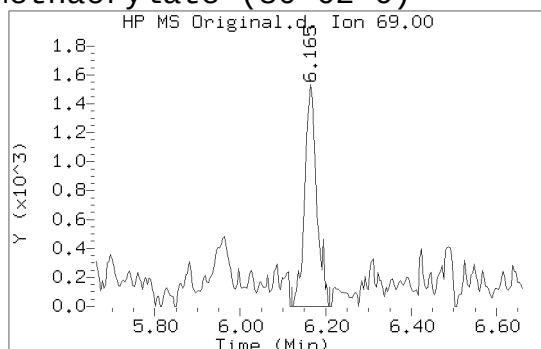


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Methyl Methacrylate (80-62-6)

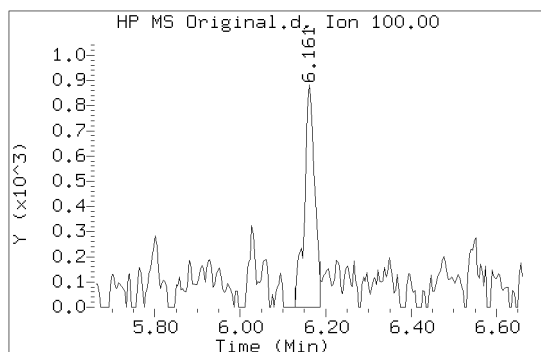
BEFORE

MASS
69
AREA
3017
HEIGHT
1532
08-Jun-2023
14:56
linh



BEFORE

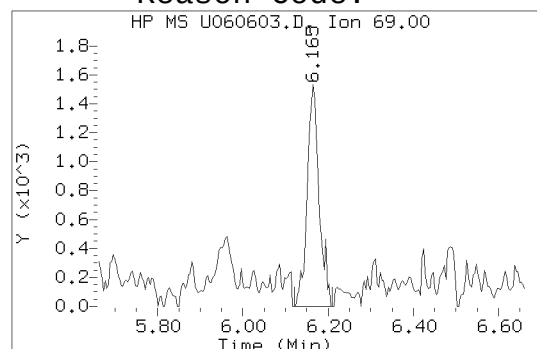
MASS
100
AREA
1506
HEIGHT
882
08-Jun-2023
14:56
linh
pham



Reason Code:

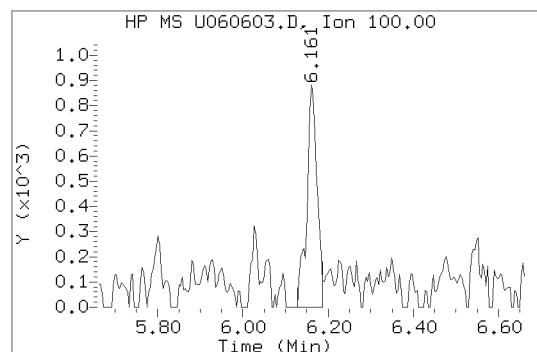
AFTER

MASS
69
AREA
3017
HEIGHT
1532
13-Jun-2023
13:00
linh



AFTER

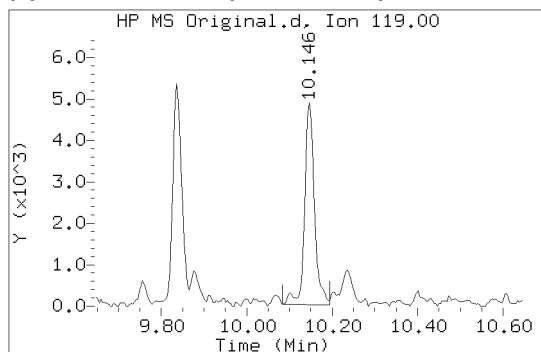
MASS
100
AREA
1506
HEIGHT
882
13-Jun-2023
13:00
linh
pham



p-Isopropyltoluene (99-87-6)

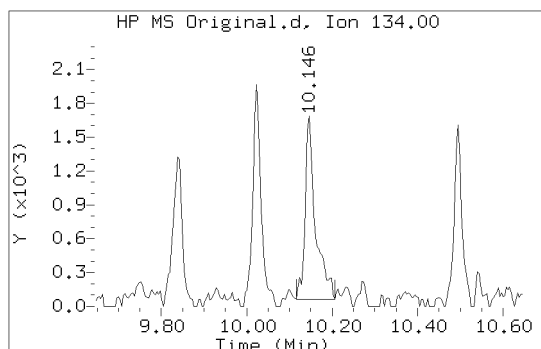
BEFORE

MASS
119
AREA
7969
HEIGHT
4880
08-Jun-2023
14:56
linh
pham



BEFORE

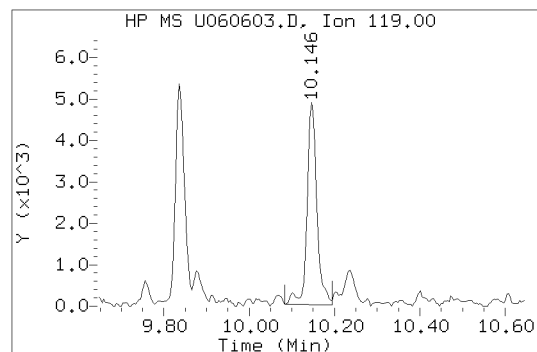
MASS
134
AREA
2795
HEIGHT
1627
08-Jun-2023
14:56
linh
pham



Reason Code:

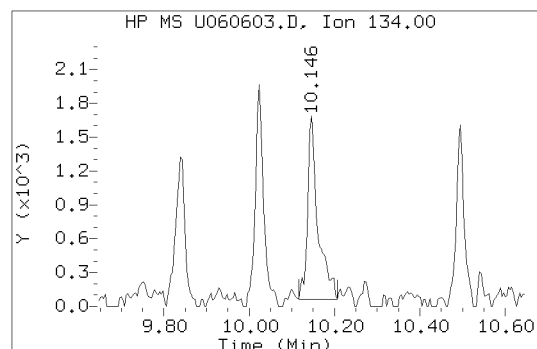
AFTER

MASS
119
AREA
7969
HEIGHT
4880
13-Jun-2023
13:00
linh
pham



AFTER

MASS
134
AREA
2795
HEIGHT
1627
13-Jun-2023
13:00
linh
pham

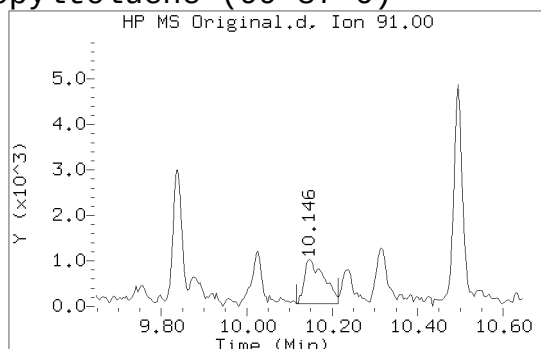


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

p-Isopropyltoluene (99-87-6)

BEFORE

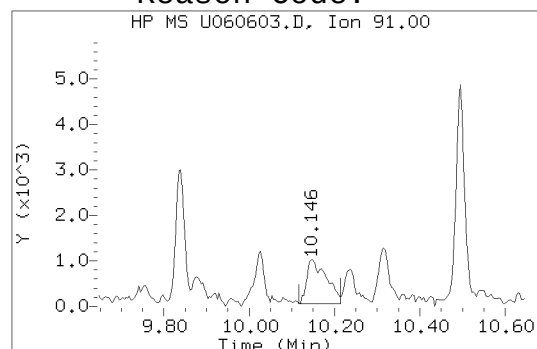
MASS
91
AREA
3125
HEIGHT
970
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
3125
HEIGHT
970
13-Jun-2023
13:00
linh
pham

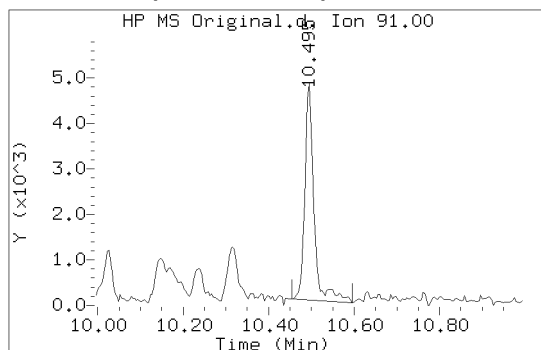
Reason Code:



n-Butylbenzene (104-51-8)

BEFORE

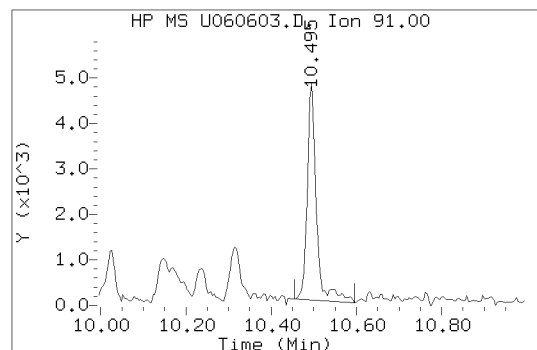
MASS
91
AREA
7213
HEIGHT
4758
08-Jun-2023
14:56
linh
pham



AFTER

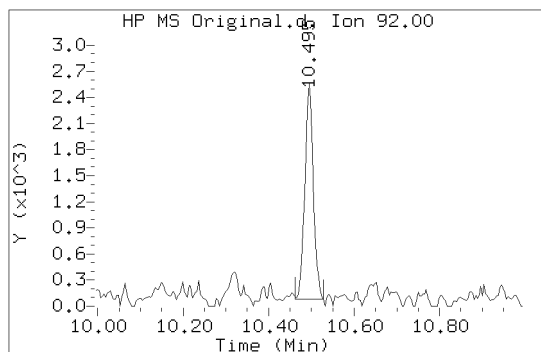
MASS
91
AREA
7213
HEIGHT
4758
13-Jun-2023
13:00
linh
pham

Reason Code:



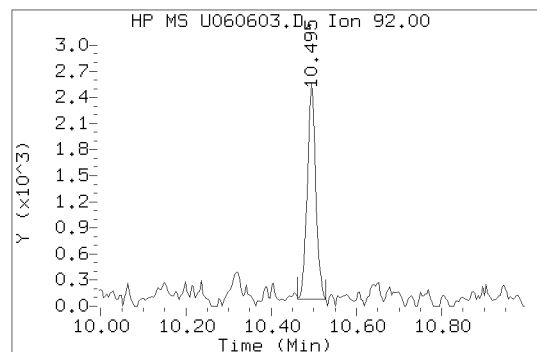
BEFORE

MASS
92
AREA
3472
HEIGHT
2472
08-Jun-2023
14:56
linh
pham



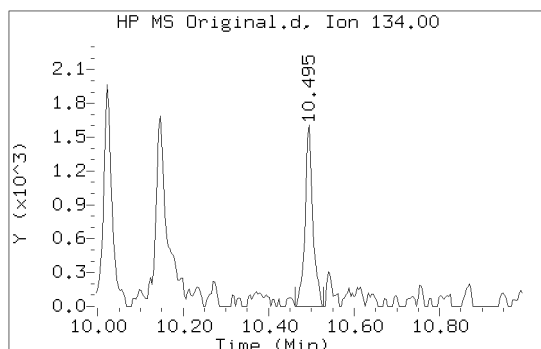
AFTER

MASS
92
AREA
3472
HEIGHT
2472
13-Jun-2023
13:00
linh
pham



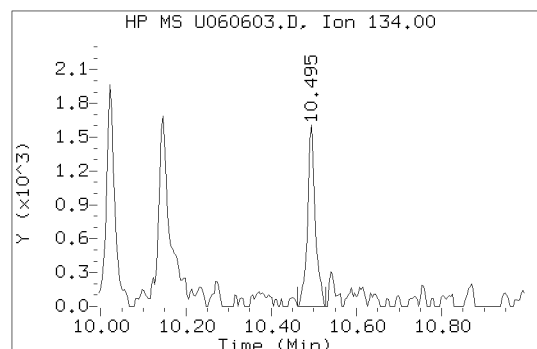
BEFORE

MASS
134
AREA
2070
HEIGHT
1610
08-Jun-2023
14:56
linh
pham



AFTER

MASS
134
AREA
2070
HEIGHT
1610
13-Jun-2023
13:00
linh
pham

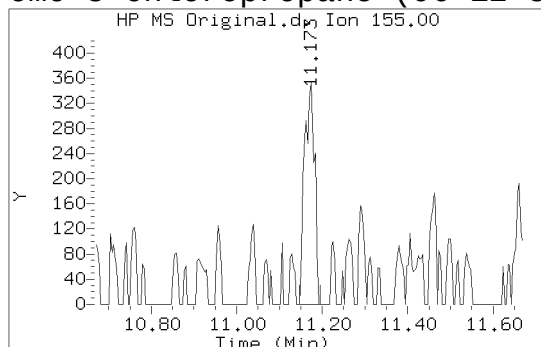


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
 Inj Date : 06-JUN-2023 11:37
 InstruID : VOA9.i
 LabSampID : VSTD000.5

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

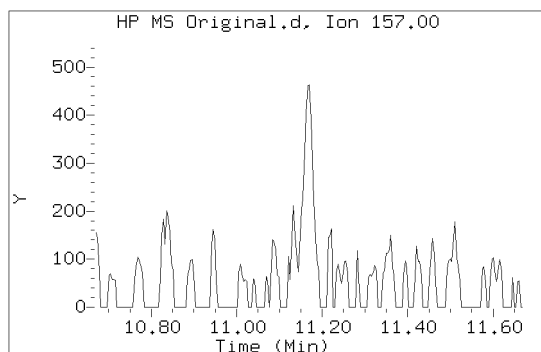
BEFORE

MASS
155
AREA
589
HEIGHT
353
08-Jun-2023
14:56
linh



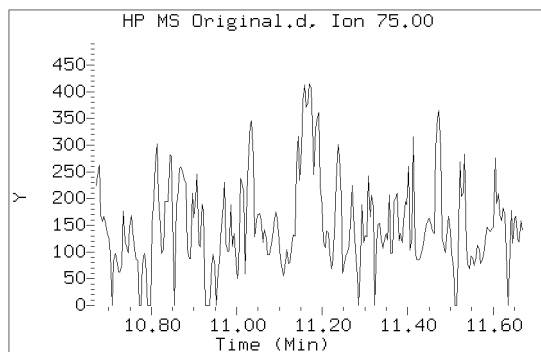
BEFORE

MASS
157
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



BEFORE

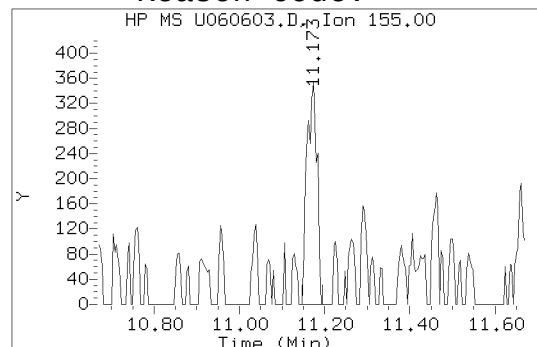
MASS
75
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

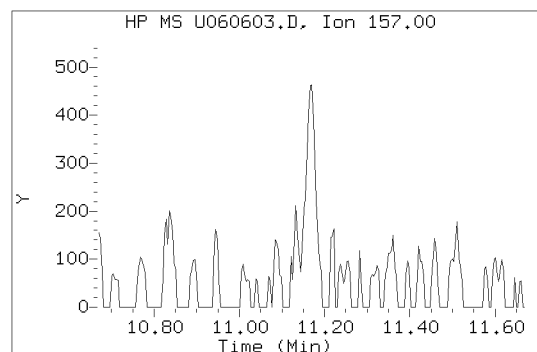
AFTER

MASS
155
AREA
589
HEIGHT
353
13-Jun-2023
13:00
linh



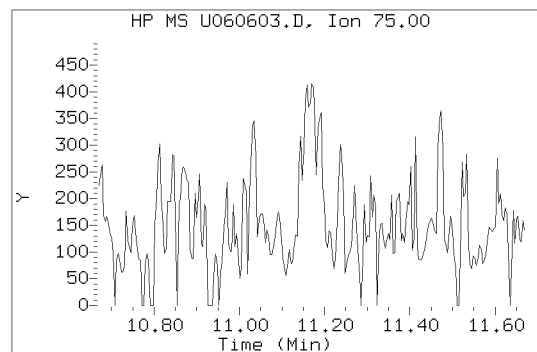
AFTER

MASS
157
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



AFTER

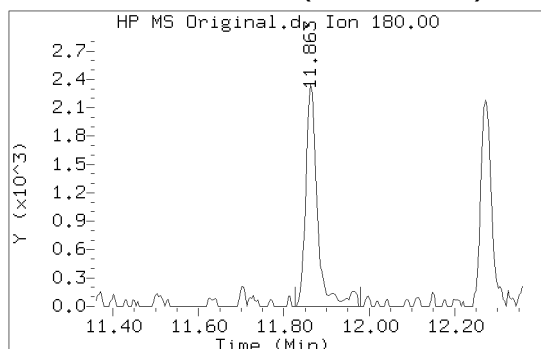
MASS
75
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



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

BEFORE

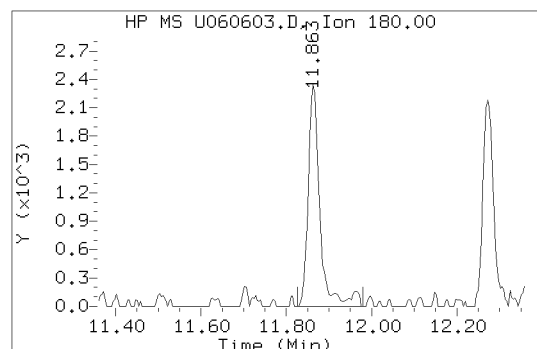
MASS
180
AREA
4551
HEIGHT
2344
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

MASS
180
AREA
4551
HEIGHT
2344
13-Jun-2023
13:00
linh
pham

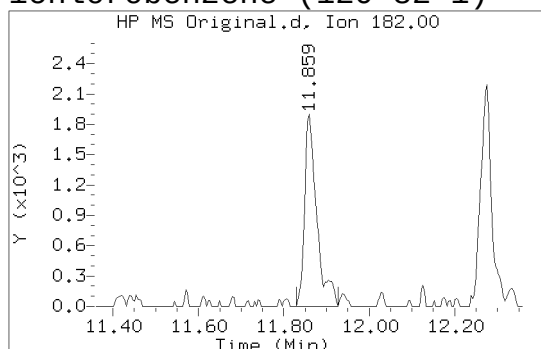


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

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

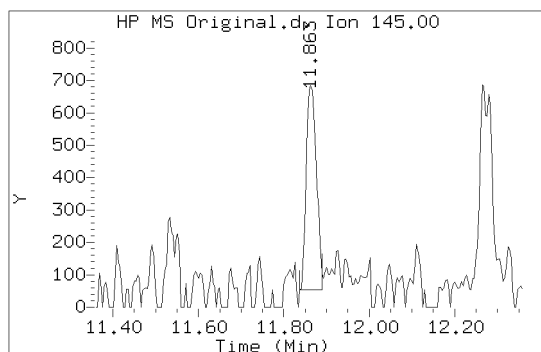
BEFORE

MASS
182
AREA
3811
HEIGHT
1898
08-Jun-2023
14:56
linh



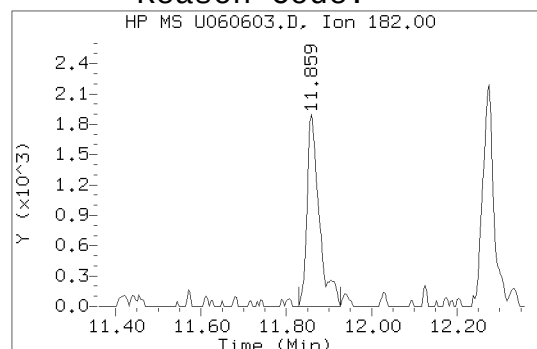
BEFORE

MASS
145
AREA
1065
HEIGHT
632
08-Jun-2023
14:56
linh
pham



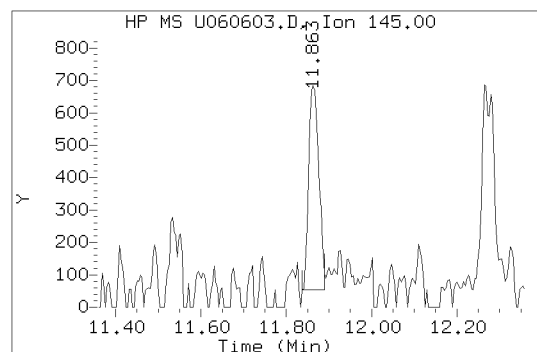
AFTER

MASS
182
AREA
3811
HEIGHT
1898
13-Jun-2023
13:00
linh



AFTER

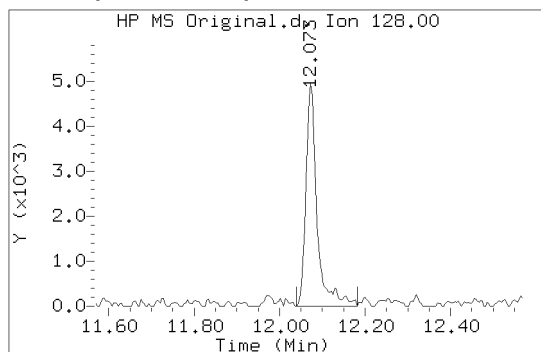
MASS
145
AREA
1065
HEIGHT
632
13-Jun-2023
13:00
linh
pham



Naphthalene (91-20-3)

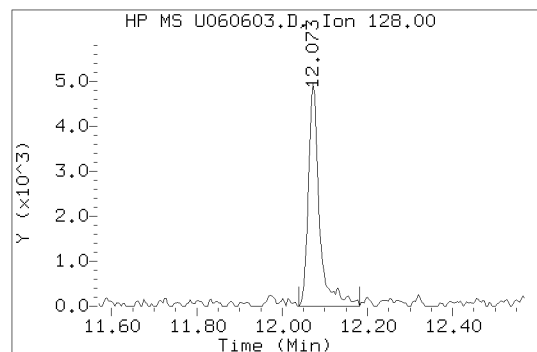
BEFORE

MASS
128
AREA
9156
HEIGHT
4939
08-Jun-2023
14:56
linh
pham



AFTER

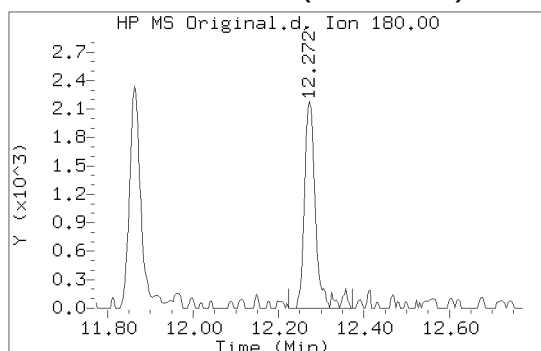
MASS
128
AREA
9156
HEIGHT
4939
13-Jun-2023
13:00
linh
pham



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

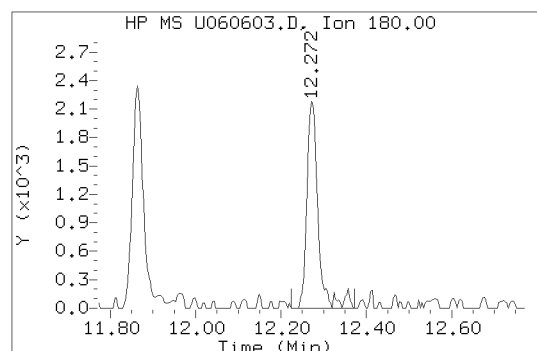
BEFORE

MASS
180
AREA
4090
HEIGHT
2185
08-Jun-2023
14:56
linh
pham



AFTER

MASS
180
AREA
4090
HEIGHT
2185
13-Jun-2023
13:00
linh
pham

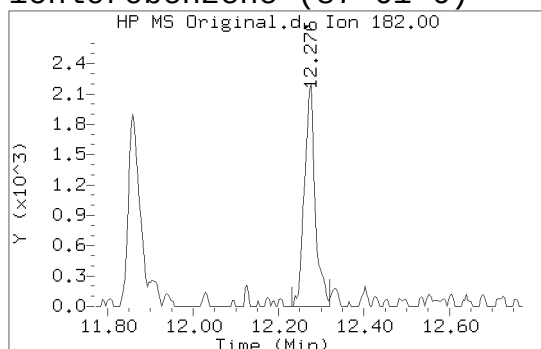


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

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

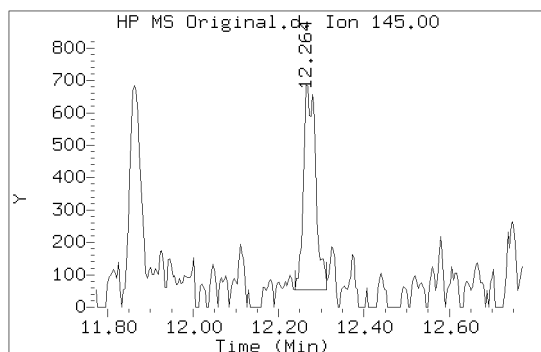
BEFORE

MASS
182
AREA
3923
HEIGHT
2191
08-Jun-2023
14:56
linh



BEFORE

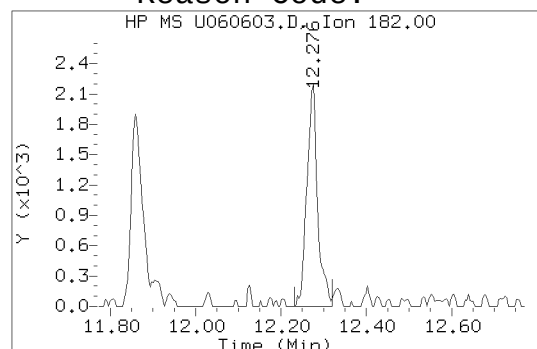
MASS
145
AREA
1275
HEIGHT
633
08-Jun-2023
14:56
linh
pham



AFTER

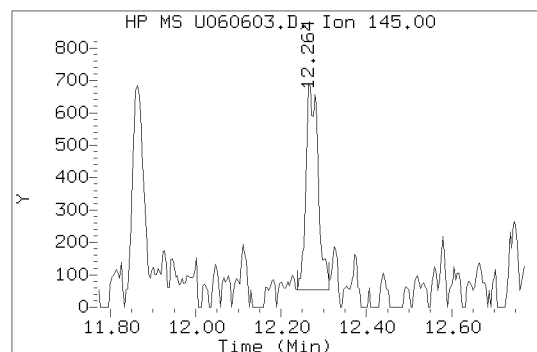
MASS
182
AREA
3923
HEIGHT
2191
13-Jun-2023
13:00
linh

Reason Code:



AFTER

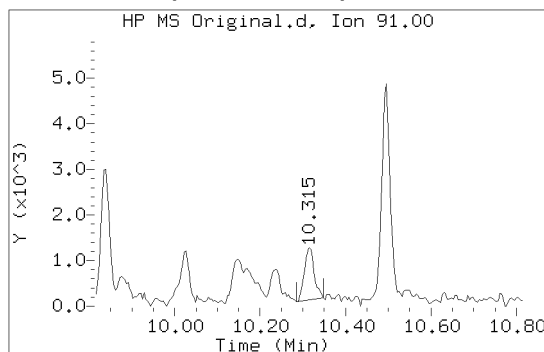
MASS
145
AREA
1275
HEIGHT
633
13-Jun-2023
13:00
linh
pham



Benzyl Chloride (100-44-7)

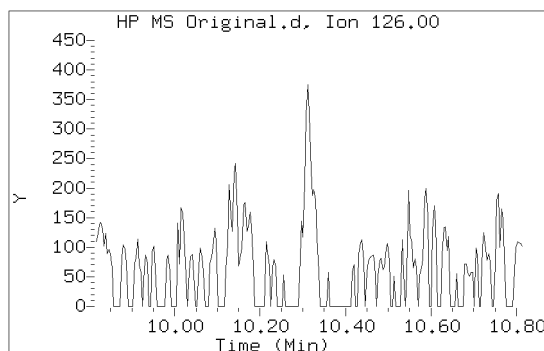
BEFORE

MASS
91
AREA
1867
HEIGHT
1136
08-Jun-2023
14:56
linh
pham



BEFORE

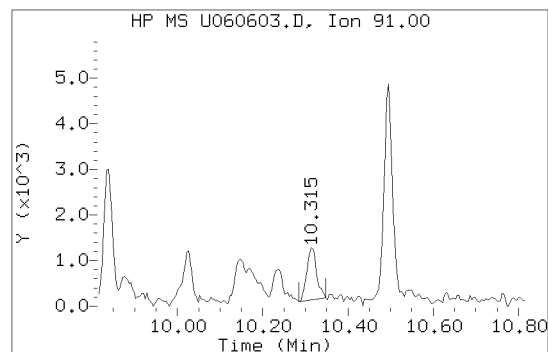
MASS
126
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

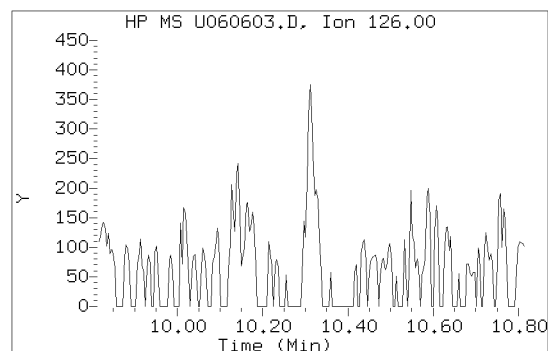
MASS
91
AREA
1867
HEIGHT
1136
13-Jun-2023
13:00
linh
pham

Reason Code:



AFTER

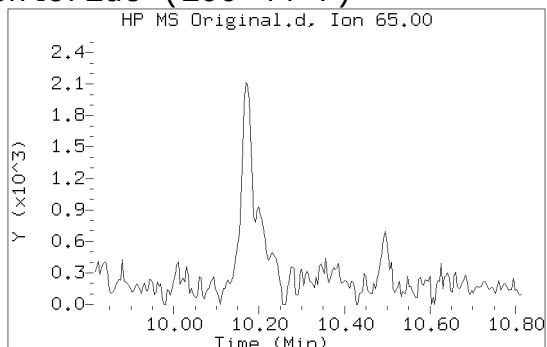
MASS
126
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



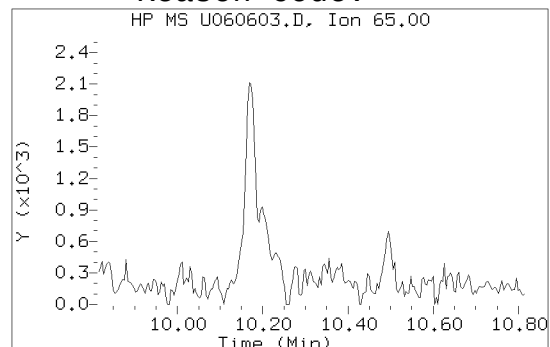
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)**BEFORE**

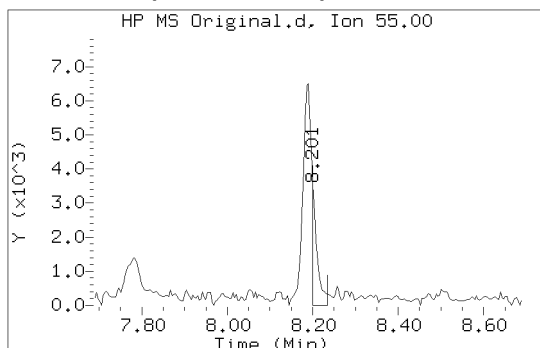
MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

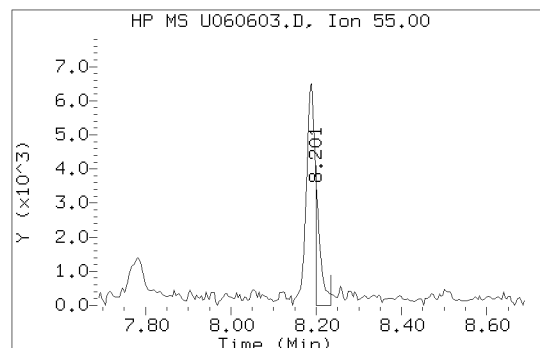
MASS
65
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

Reason Code:**1-Chlorohexane (544-10-5)****BEFORE**

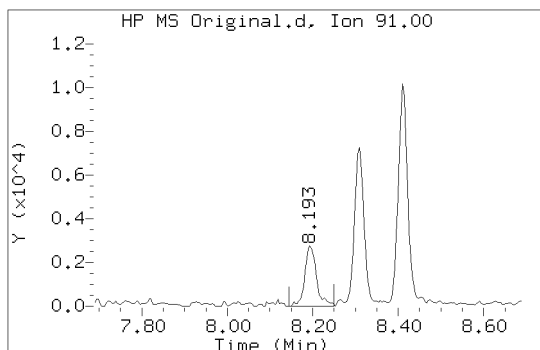
MASS
55
AREA
2785
HEIGHT
3524
08-Jun-2023
14:56
linh
pham

**AFTER**

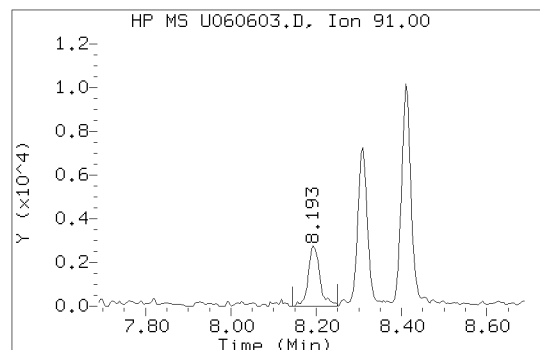
MASS
55
AREA
2785
HEIGHT
3524
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

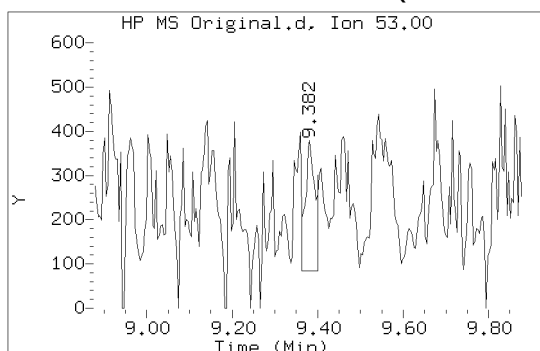
MASS
91
AREA
5394
HEIGHT
2762
08-Jun-2023
14:56
linh
pham

**AFTER**

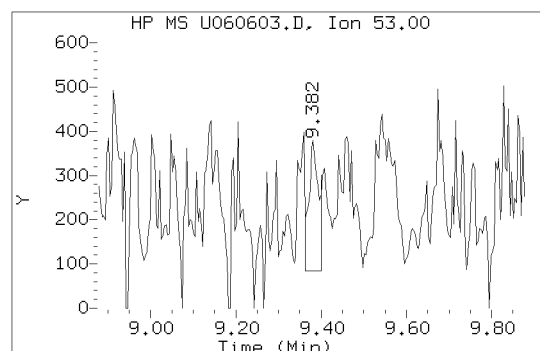
MASS
91
AREA
5394
HEIGHT
2762
13-Jun-2023
13:00
linh
pham

**trans-1,4-Dichloro-2-butene (110-57-6)****BEFORE**

MASS
53
AREA
485
HEIGHT
296
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
53
AREA
485
HEIGHT
296
13-Jun-2023
13:00
linh
pham

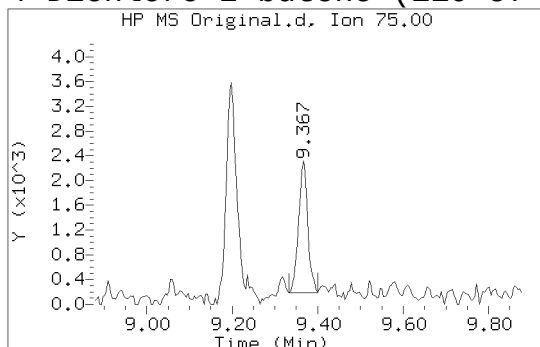
Reason Code:

Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

trans-1,4-Dichloro-2-butene (110-57-6)

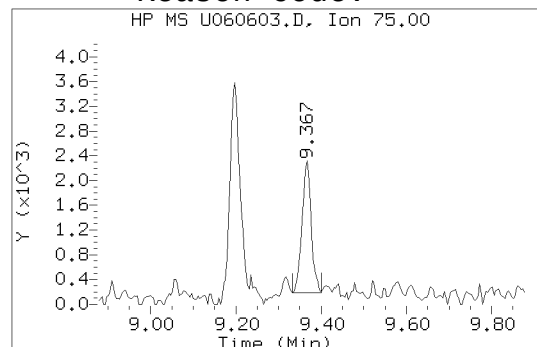
BEFORE

MASS
75
AREA
3241
HEIGHT
2140
08-Jun-2023
14:56
linh
pham



AFTER

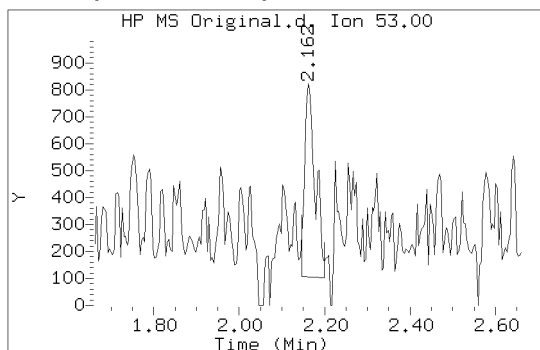
MASS
75
AREA
3241
HEIGHT
2140
13-Jun-2023
13:00
linh
pham



Chloroprene (126-99-8)

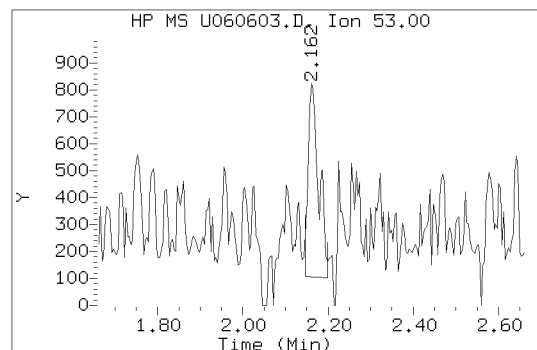
BEFORE

MASS
53
AREA
1260
HEIGHT
717
08-Jun-2023
14:56
linh
pham



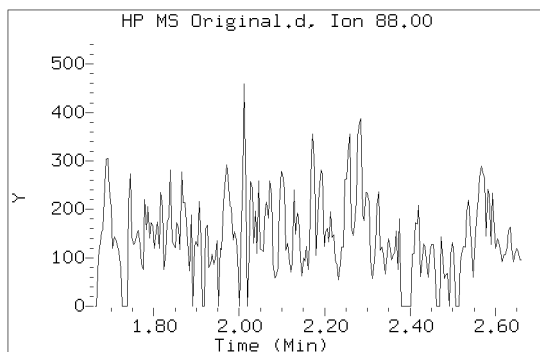
AFTER

MASS
53
AREA
1260
HEIGHT
717
13-Jun-2023
13:00
linh
pham



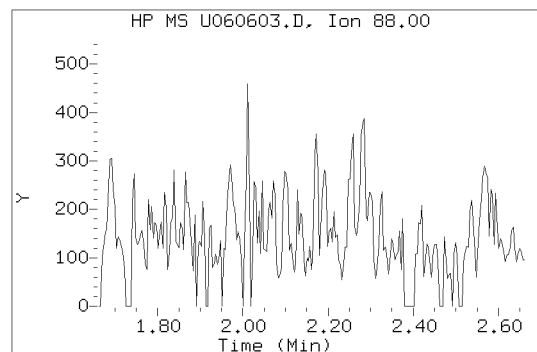
BEFORE

MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

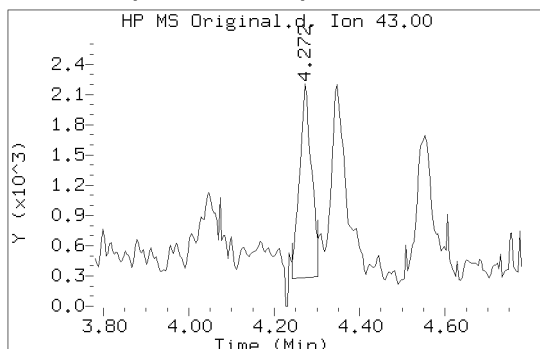
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



Ethyl Acetate (141-78-6)

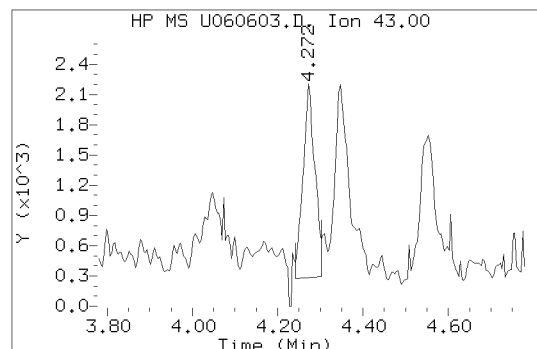
BEFORE

MASS
43
AREA
3781
HEIGHT
1922
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
3781
HEIGHT
1922
13-Jun-2023
13:00
linh
pham

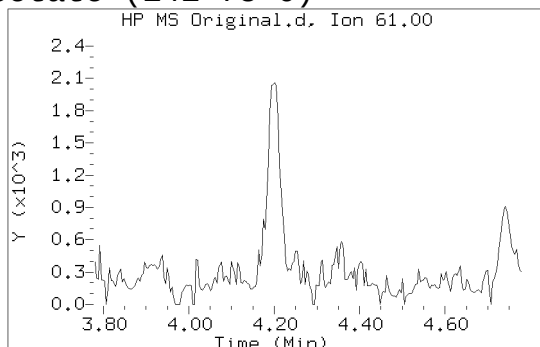


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Ethyl Acetate (141-78-6)

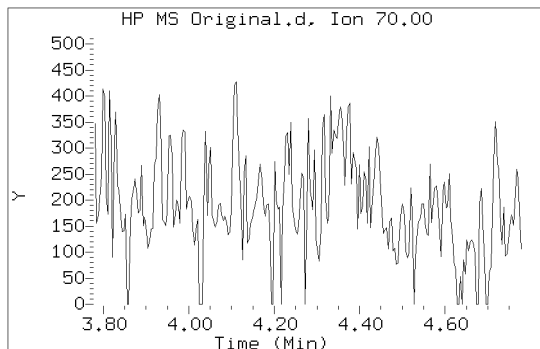
BEFORE

MASS
61
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh



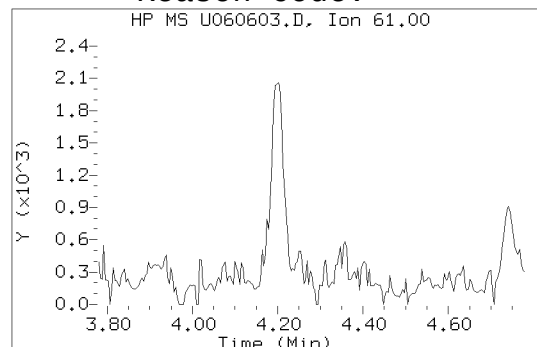
BEFORE

MASS
70
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



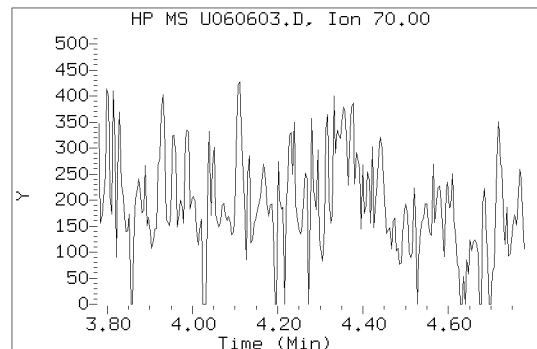
AFTER

MASS
61
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh



AFTER

MASS
70
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

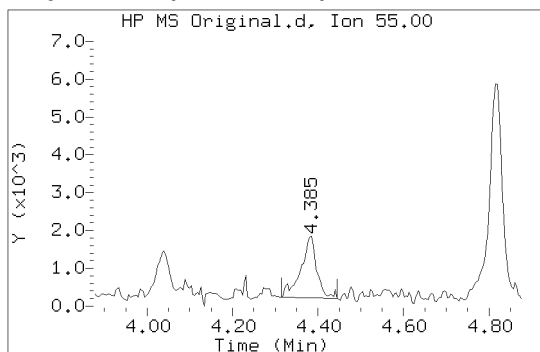


Reason Code:

Methyl Acrylate (96-33-3)

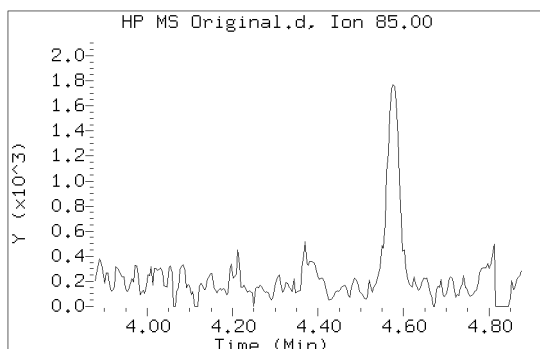
BEFORE

MASS
55
AREA
4302
HEIGHT
1632
08-Jun-2023
14:56
linh
pham



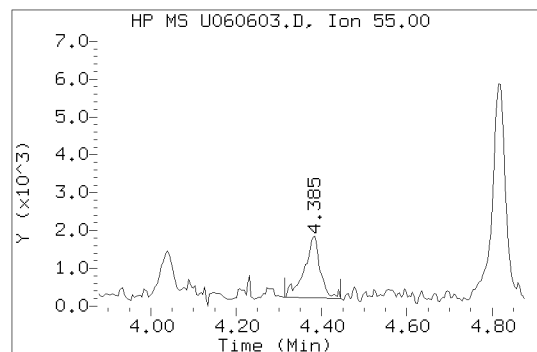
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



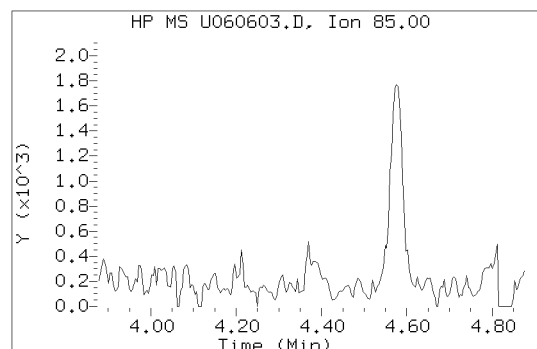
AFTER

MASS
55
AREA
4302
HEIGHT
1632
13-Jun-2023
13:00
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



Reason Code:

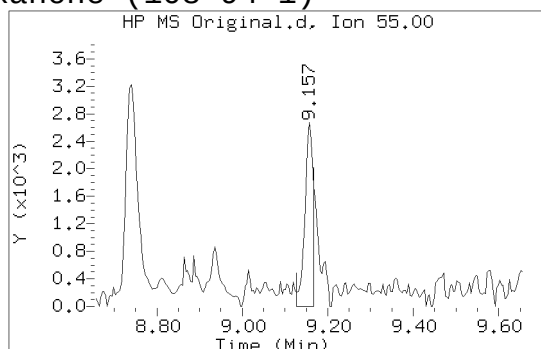


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

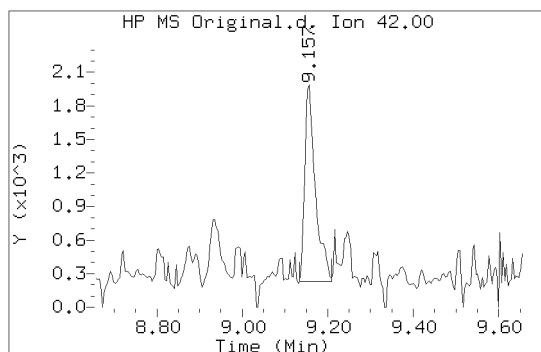
BEFORE

MASS
55
AREA
3642
HEIGHT
2680
08-Jun-2023
14:56
linh



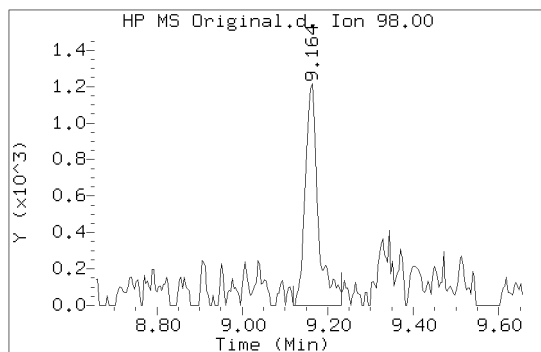
BEFORE

MASS
42
AREA
3088
HEIGHT
1757
08-Jun-2023
14:56
linh
pham



BEFORE

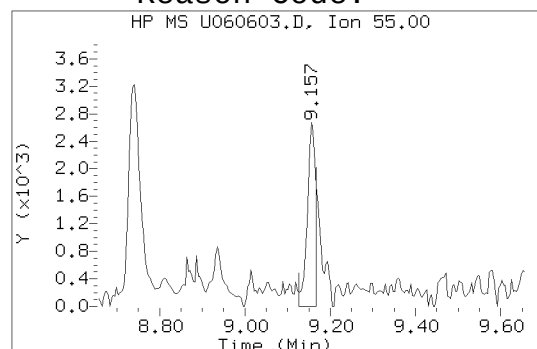
MASS
98
AREA
2606
HEIGHT
1216
08-Jun-2023
14:56
linh
pham



Reason Code:

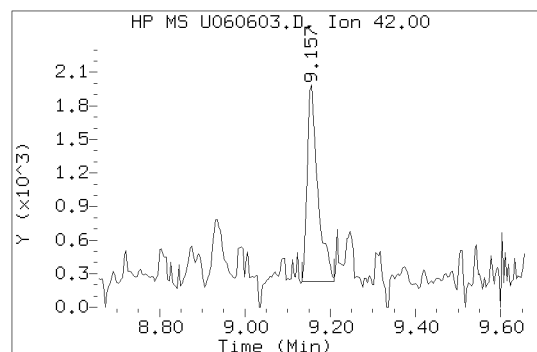
AFTER

MASS
55
AREA
3642
HEIGHT
2680
13-Jun-2023
13:00
linh



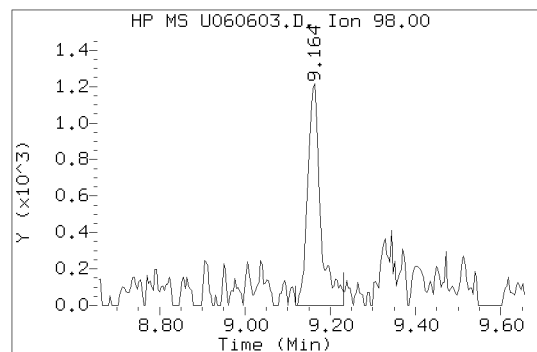
AFTER

MASS
42
AREA
3088
HEIGHT
1757
13-Jun-2023
13:00
linh
pham



AFTER

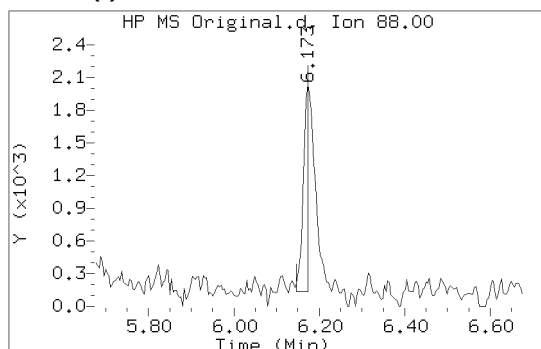
MASS
98
AREA
2606
HEIGHT
1216
13-Jun-2023
13:00
linh
pham



1,4-Dioxane ()

BEFORE

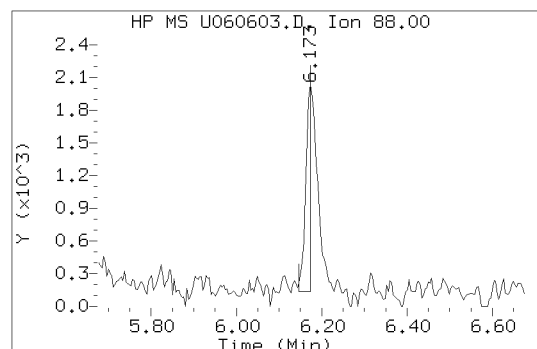
MASS
88
AREA
1567
HEIGHT
1901
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

MASS
88
AREA
1567
HEIGHT
1901
13-Jun-2023
13:00
linh
pham

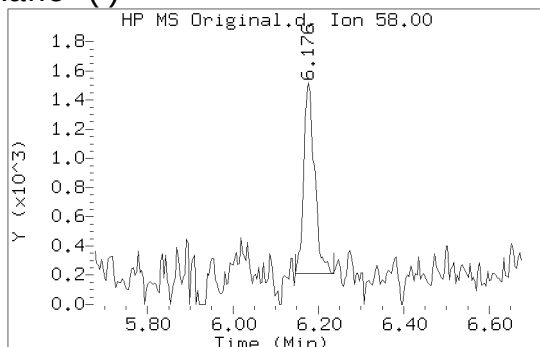


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,4-Dioxane ()

BEFORE

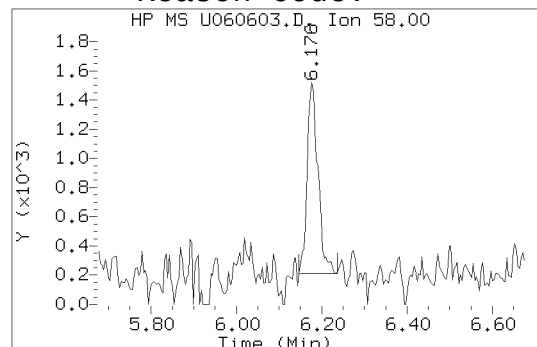
MASS
58
AREA
2344
HEIGHT
1308
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
2344
HEIGHT
1308
13-Jun-2023
13:00
linh
pham

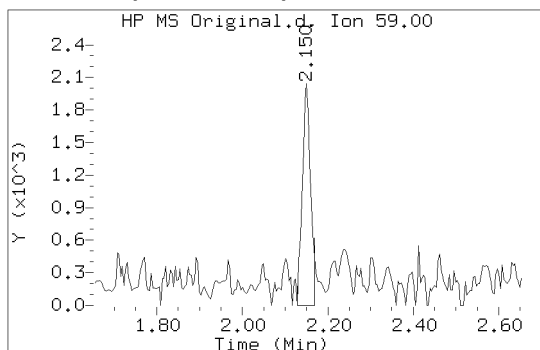
Reason Code:



Diethyl ether (60-29-7)

BEFORE

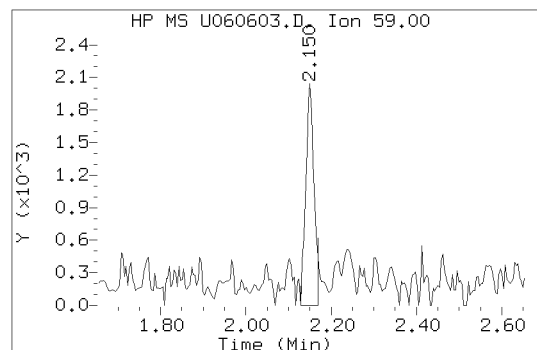
MASS
59
AREA
2812
HEIGHT
2042
08-Jun-2023
14:56
linh
pham



AFTER

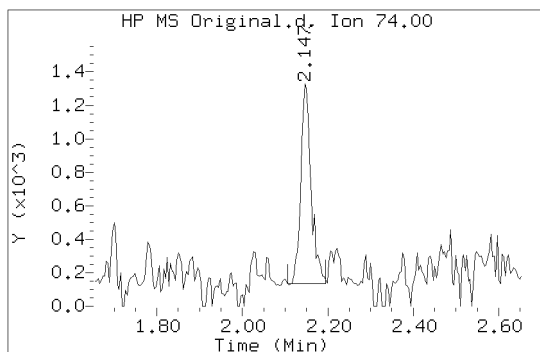
MASS
59
AREA
2812
HEIGHT
2042
13-Jun-2023
13:00
linh
pham

Reason Code:



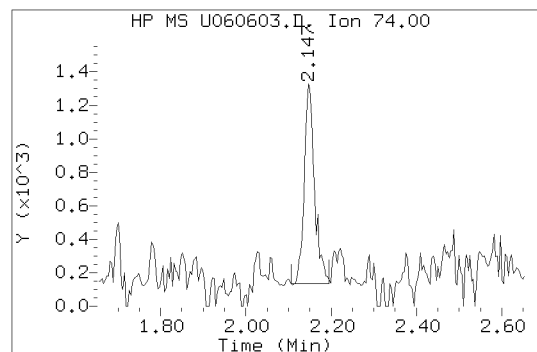
BEFORE

MASS
74
AREA
2051
HEIGHT
1194
08-Jun-2023
14:56
linh
pham



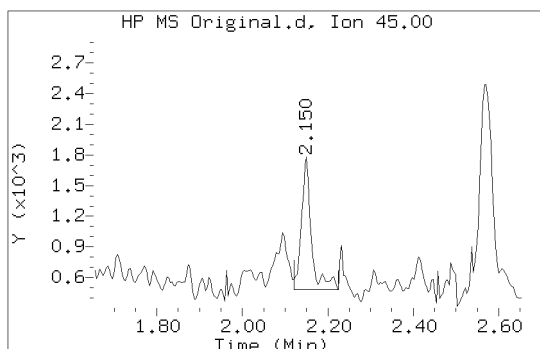
AFTER

MASS
74
AREA
2051
HEIGHT
1194
13-Jun-2023
13:00
linh
pham



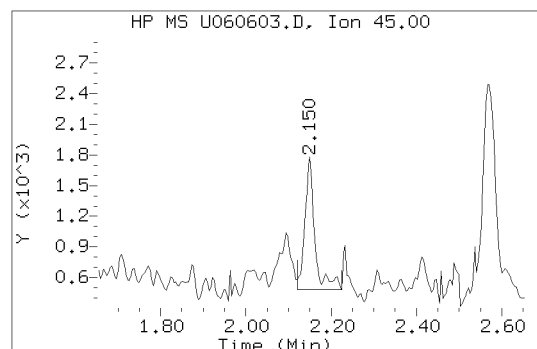
BEFORE

MASS
45
AREA
2149
HEIGHT
1297
08-Jun-2023
14:56
linh
pham



AFTER

MASS
45
AREA
2149
HEIGHT
1297
13-Jun-2023
13:00
linh
pham

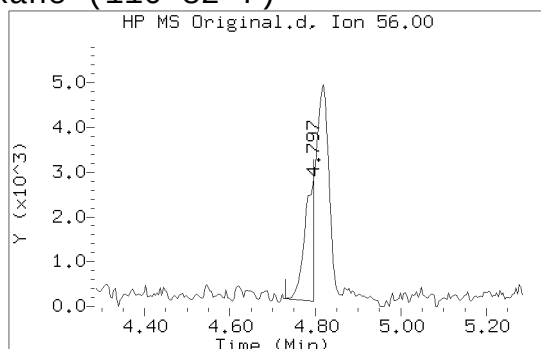


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
 Inj Date : 06-JUN-2023 11:37
 InstruID : VOA9.i
 LabSampID : VSTD000.5

Cyclohexane (110-82-7)

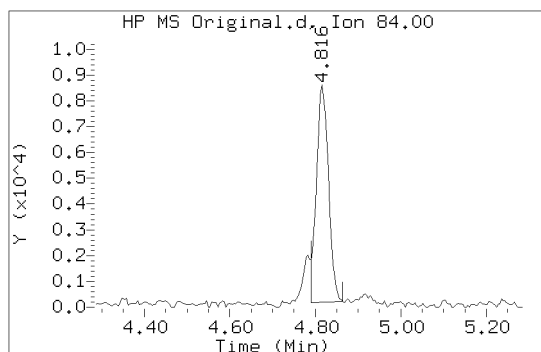
BEFORE

MASS
56
AREA
4345
HEIGHT
2735
08-Jun-2023
14:56
linh



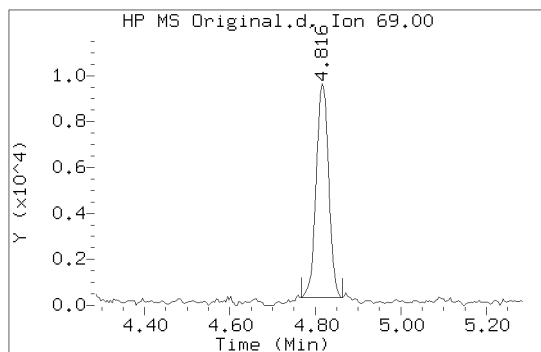
BEFORE

MASS
84
AREA
16696
HEIGHT
8414
08-Jun-2023
14:56
linh
pham



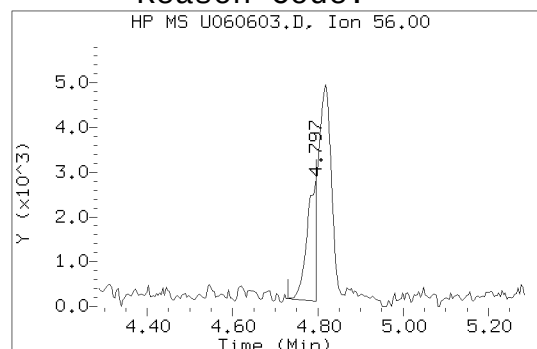
BEFORE

MASS
69
AREA
18963
HEIGHT
9317
08-Jun-2023
14:56
linh
pham



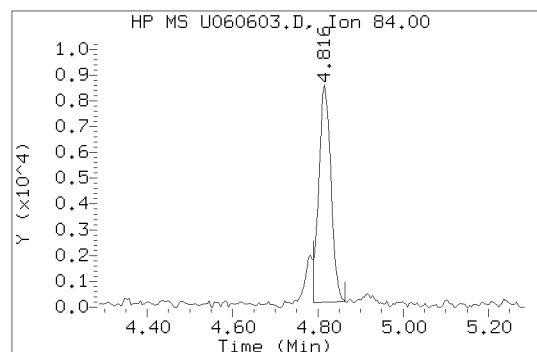
AFTER

MASS
56
AREA
4345
HEIGHT
2735
13-Jun-2023
13:00
linh



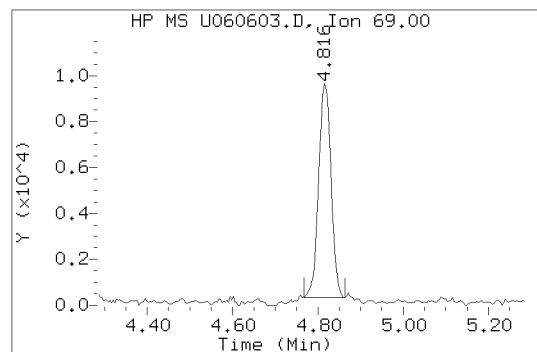
AFTER

MASS
84
AREA
16696
HEIGHT
8414
13-Jun-2023
13:00
linh
pham



AFTER

MASS
69
AREA
18963
HEIGHT
9317
13-Jun-2023
13:00
linh
pham

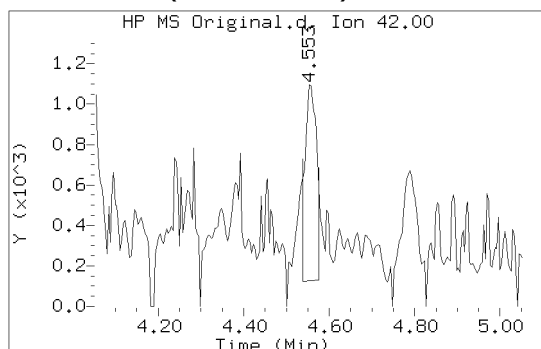


Reason Code:

Tetrahydrofuran (109-99-9)

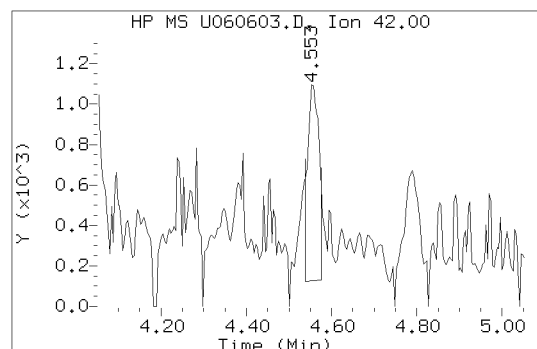
BEFORE

MASS
42
AREA
1846
HEIGHT
970
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
AREA
1846
HEIGHT
970
13-Jun-2023
13:00
linh
pham



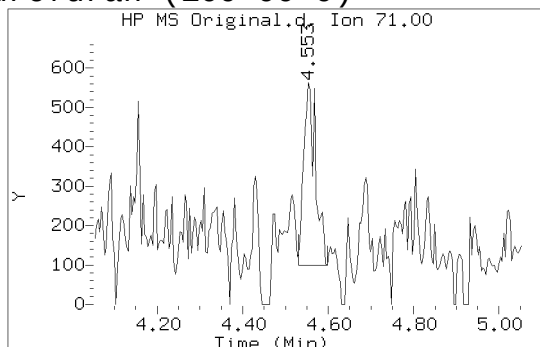
Reason Code:



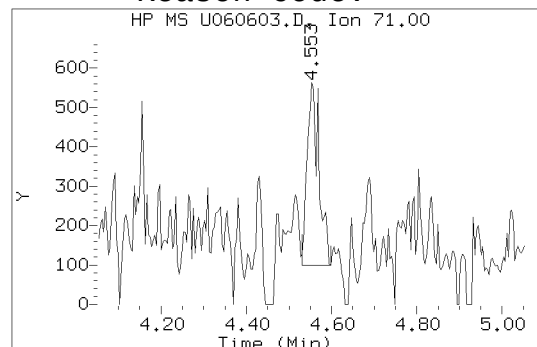
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Tetrahydrofuran (109-99-9)**BEFORE**

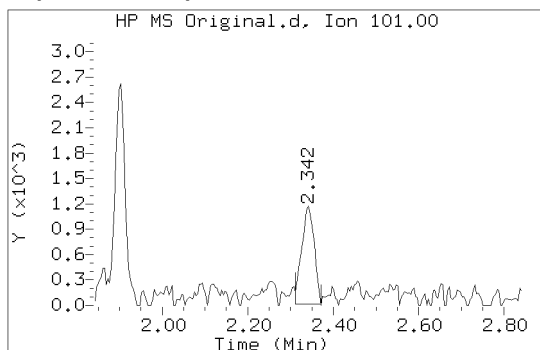
MASS
71
AREA
900
HEIGHT
464
08-Jun-2023
14:56
linh
pham

**AFTER**

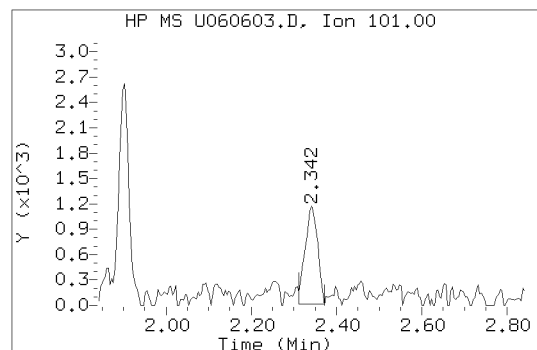
MASS
71
AREA
900
HEIGHT
464
13-Jun-2023
13:00
linh
pham

Reason Code:**Freon TF (76-13-1)****BEFORE**

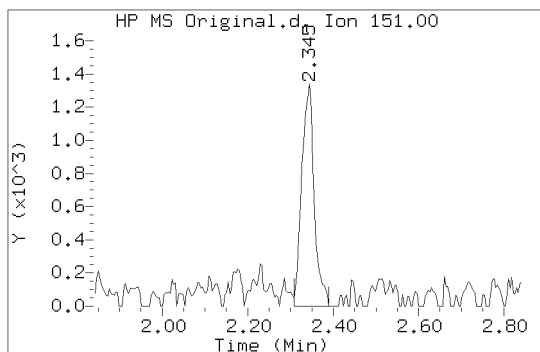
MASS
101
AREA
2391
HEIGHT
1159
08-Jun-2023
14:56
linh
pham

**AFTER**

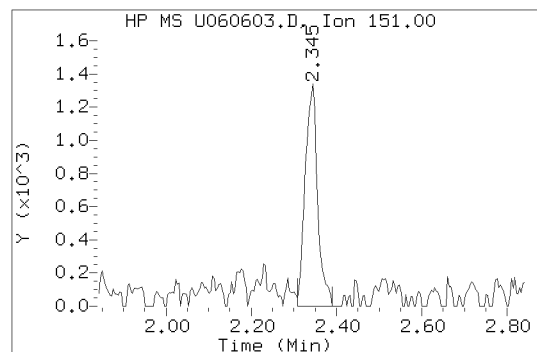
MASS
101
AREA
2391
HEIGHT
1159
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

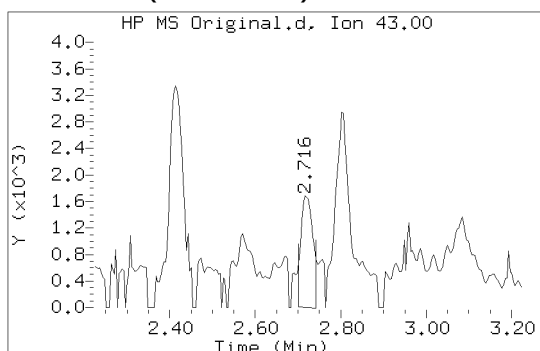
MASS
151
AREA
2754
HEIGHT
1340
08-Jun-2023
14:56
linh
pham

**AFTER**

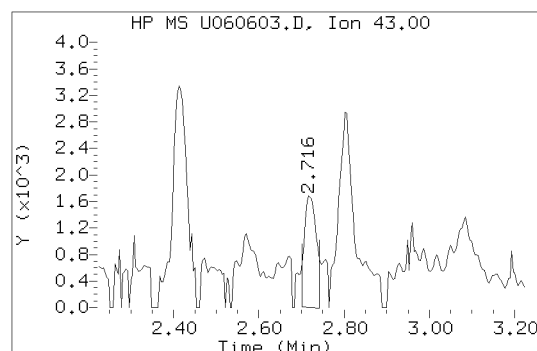
MASS
151
AREA
2754
HEIGHT
1340
13-Jun-2023
13:00
linh
pham

**Methyl Acetate (79-20-9)****BEFORE**

MASS
43
AREA
3375
HEIGHT
1684
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
43
AREA
3375
HEIGHT
1684
13-Jun-2023
13:00
linh
pham

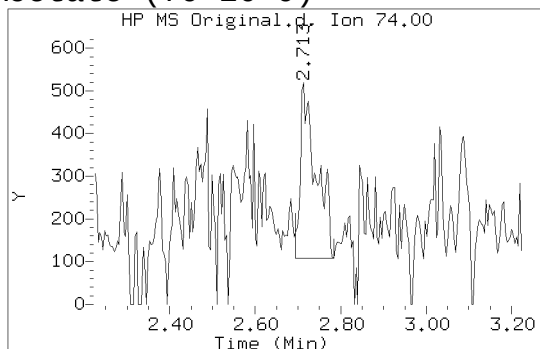
Reason Code:

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Methyl Acetate (79-20-9)

BEFORE

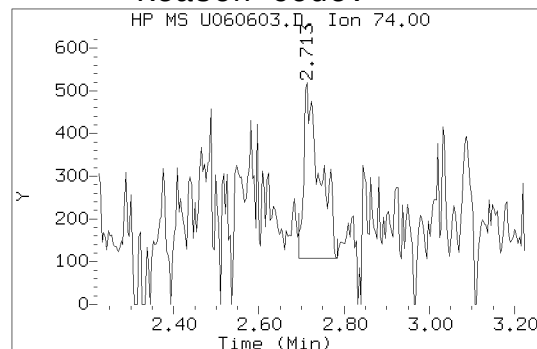
MASS
74
AREA
1069
HEIGHT
411
08-Jun-2023
14:56
linh
pham



AFTER

MASS
74
AREA
1069
HEIGHT
411
13-Jun-2023
13:00
linh
pham

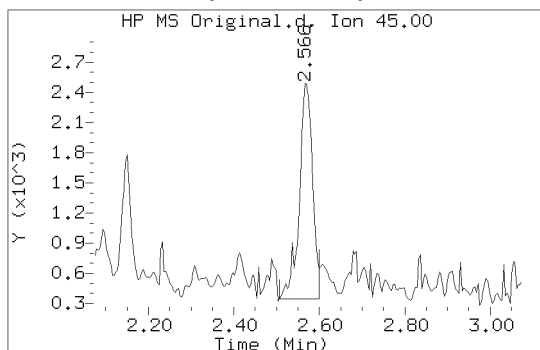
Reason Code:



Isopropyl Alcohol (67-63-0)

BEFORE

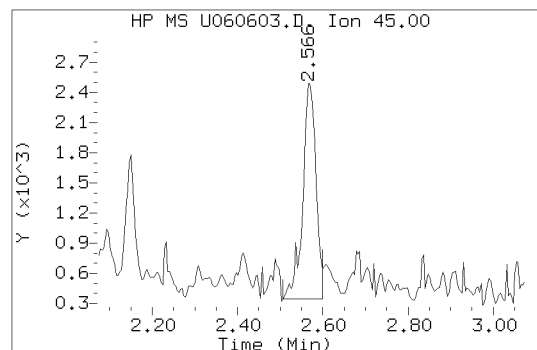
MASS
45
AREA
4735
HEIGHT
2141
08-Jun-2023
14:56
linh
pham



AFTER

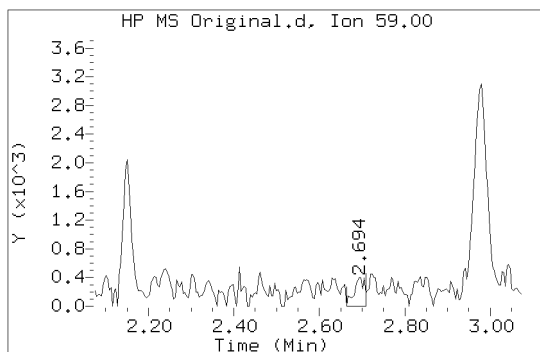
MASS
45
AREA
4735
HEIGHT
2141
13-Jun-2023
13:00
linh
pham

Reason Code:



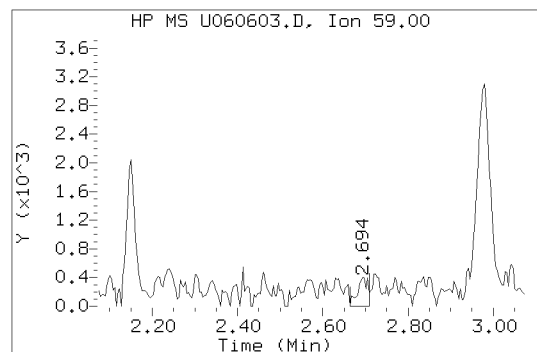
BEFORE

MASS
59
AREA
670
HEIGHT
403
08-Jun-2023
14:56
linh
pham



AFTER

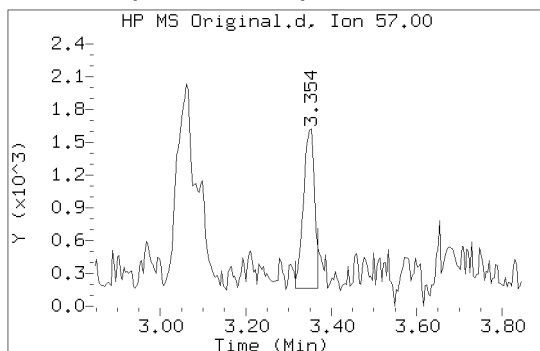
MASS
59
AREA
670
HEIGHT
403
13-Jun-2023
13:00
linh
pham



Allyl alcohol (107-18-6)

BEFORE

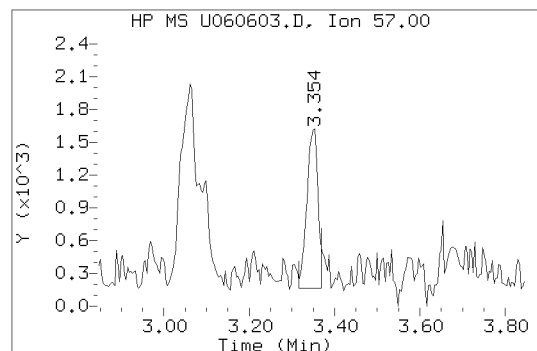
MASS
57
AREA
2691
HEIGHT
1461
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
AREA
2691
HEIGHT
1461
13-Jun-2023
13:00
linh
pham

Reason Code:

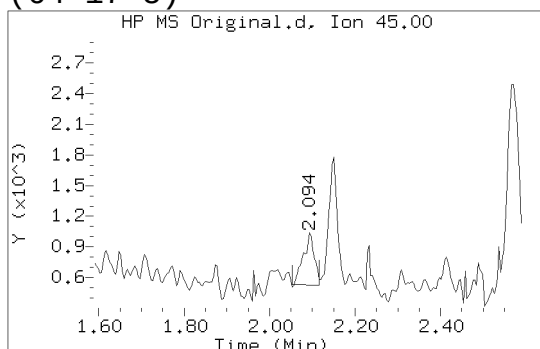


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060603.D
 Inj Date : 06-JUN-2023 11:37
 InstruID : VOA9.i
 LabSampID : VSTD000.5

Ethanol (64-17-5)

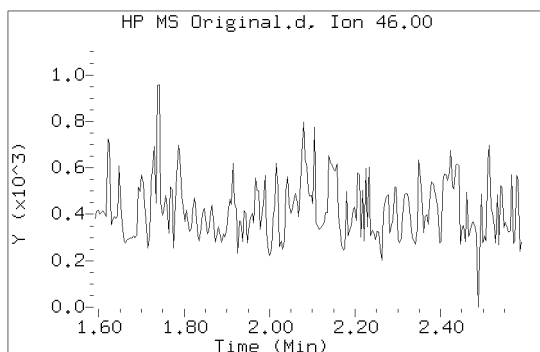
BEFORE

MASS
45
AREA
929
HEIGHT
515
08-Jun-2023
14:56
linh



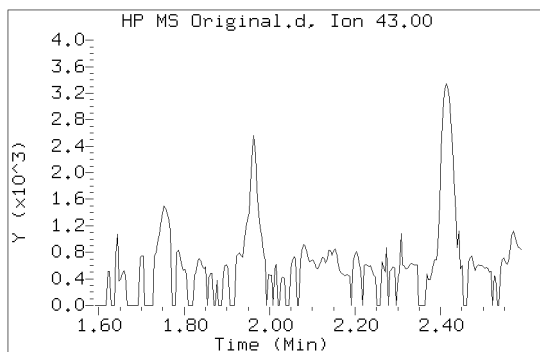
BEFORE

MASS
46
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



BEFORE

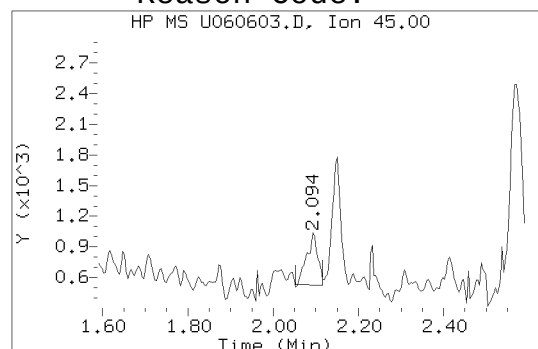
MASS
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AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

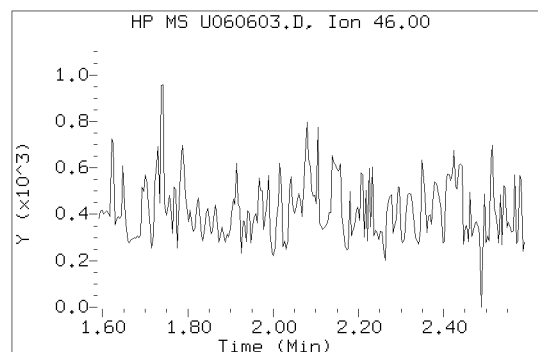
AFTER

MASS
45
AREA
929
HEIGHT
515
13-Jun-2023
13:00
linh



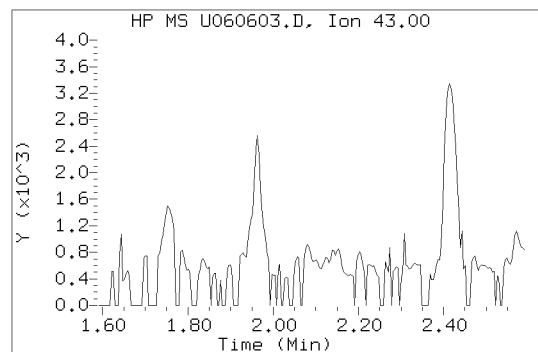
AFTER

MASS
46
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



AFTER

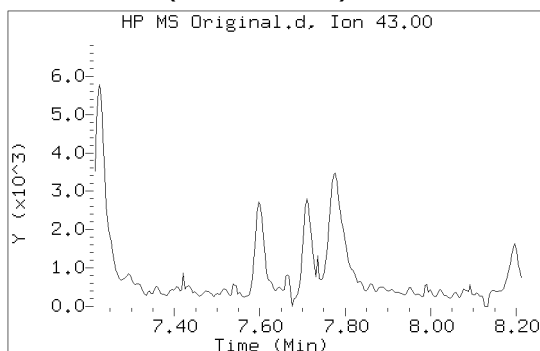
MASS
43
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



n-Butyl acetate (123-86-4)

BEFORE

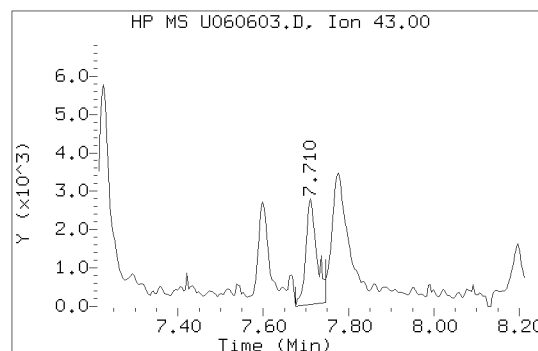
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

AFTER

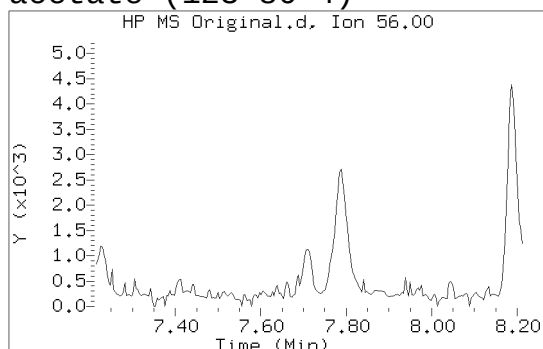
MASS
43
AREA
5135
HEIGHT
2763
13-Jun-2023
13:00
linh
pham



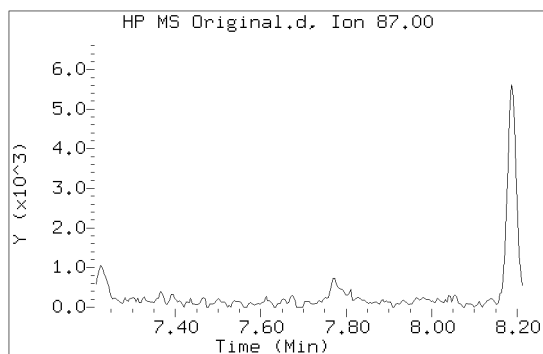
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Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

n-Butyl acetate (123-86-4)**BEFORE**

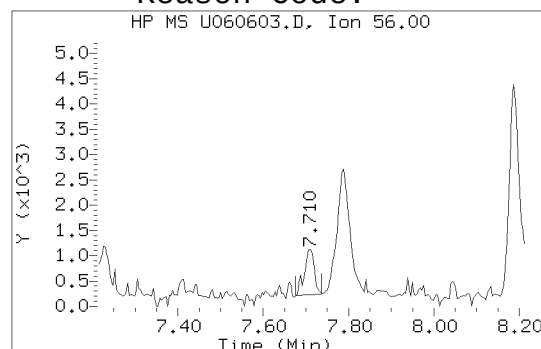
MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh

**BEFORE**

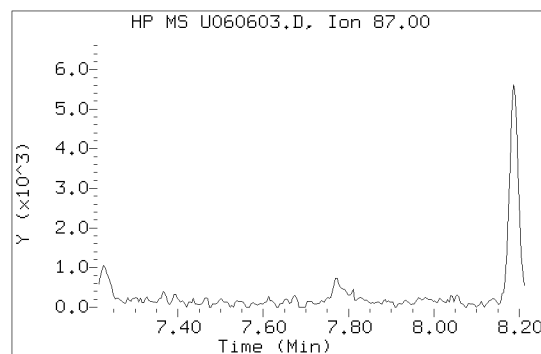
MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

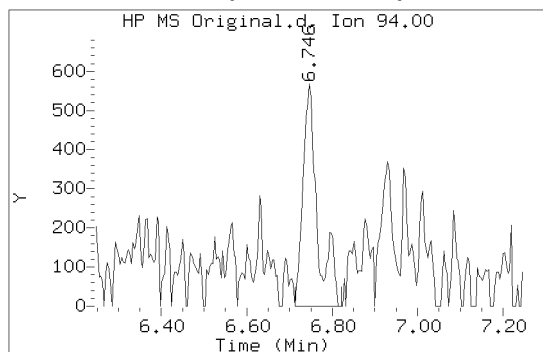
MASS
56
AREA
1504
HEIGHT
896
13-Jun-2023
13:00
linh

**AFTER**

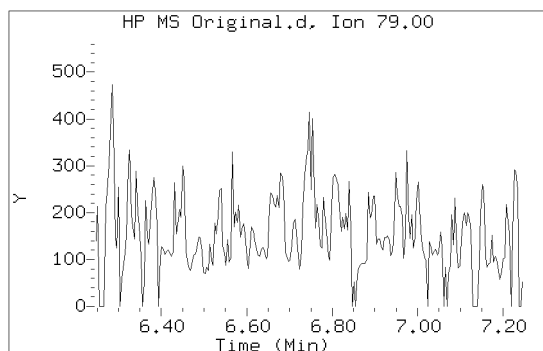
MASS
87
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**Dimethyl Disulfide (624-92-0)****BEFORE**

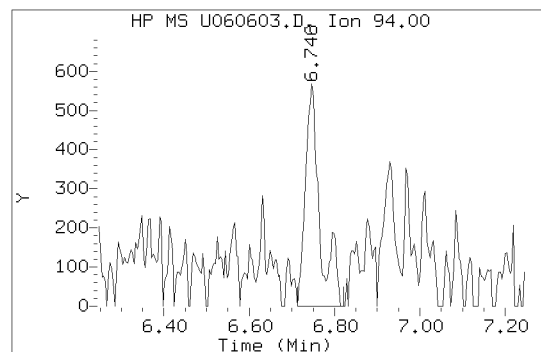
MASS
94
AREA
1341
HEIGHT
568
08-Jun-2023
14:56
linh
pham

**BEFORE**

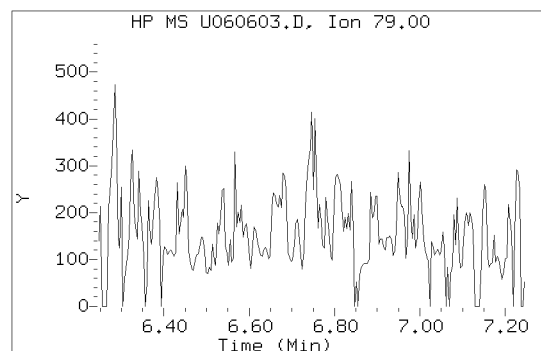
MASS
79
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

MASS
94
AREA
1341
HEIGHT
568
13-Jun-2023
13:00
linh
pham

**AFTER**

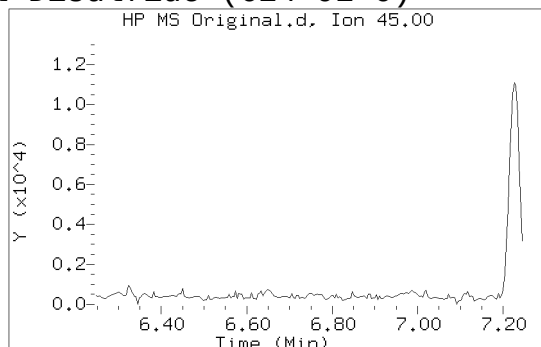
MASS
79
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



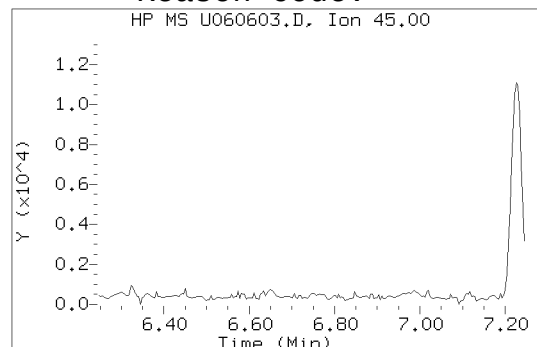
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

Dimethyl Disulfide (624-92-0)**BEFORE**

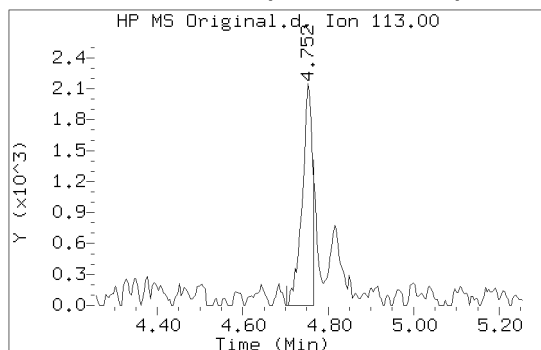
MASS
45
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

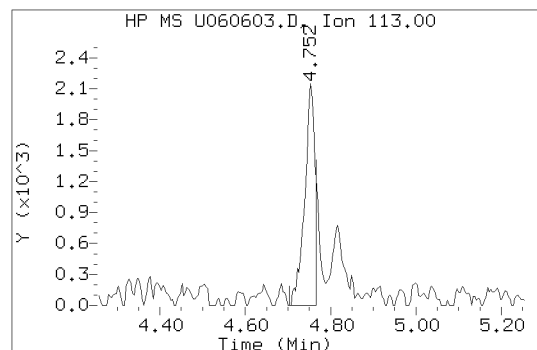
MASS
45
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**Dibromofluoromethane (1868-53-7)****BEFORE**

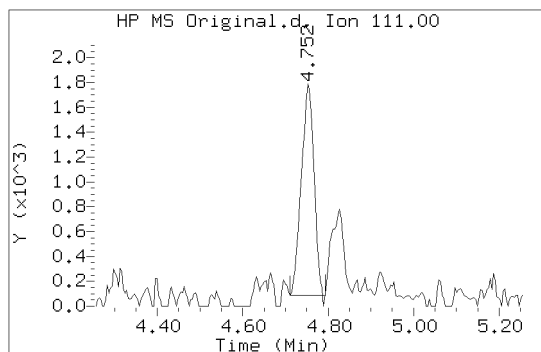
MASS
113
AREA
3644
HEIGHT
2149
08-Jun-2023
14:56
linh
pham

**AFTER**

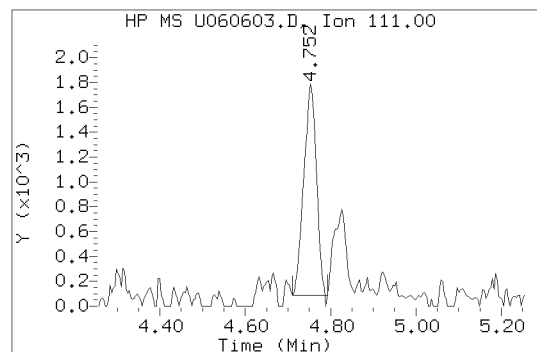
MASS
113
AREA
3644
HEIGHT
2149
13-Jun-2023
13:00
linh
pham

**BEFORE**

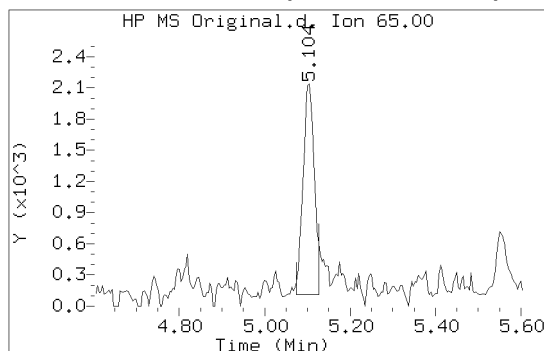
MASS
111
AREA
3541
HEIGHT
1703
08-Jun-2023
14:56
linh
pham

**AFTER**

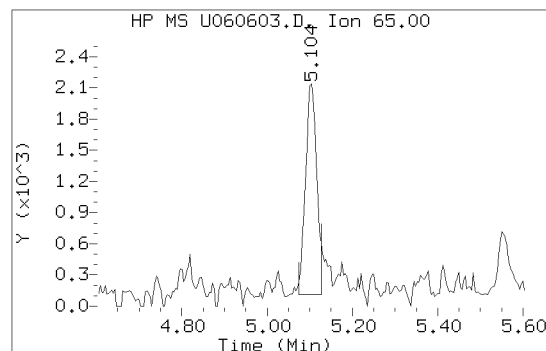
MASS
111
AREA
3541
HEIGHT
1703
13-Jun-2023
13:00
linh
pham

**1,2-Dichloroethane-d4 (17060-07-0)****BEFORE**

MASS
65
AREA
3795
HEIGHT
2029
08-Jun-2023
14:56
linh
pham

**AFTER**

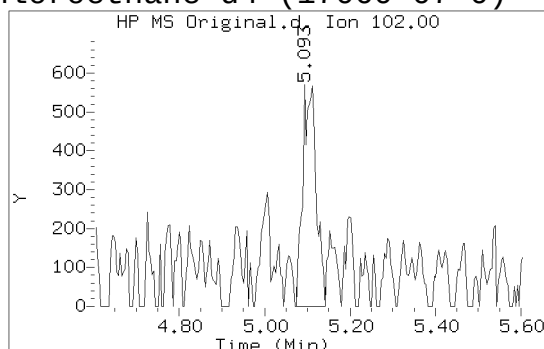
MASS
65
AREA
3795
HEIGHT
2029
13-Jun-2023
13:00
linh
pham



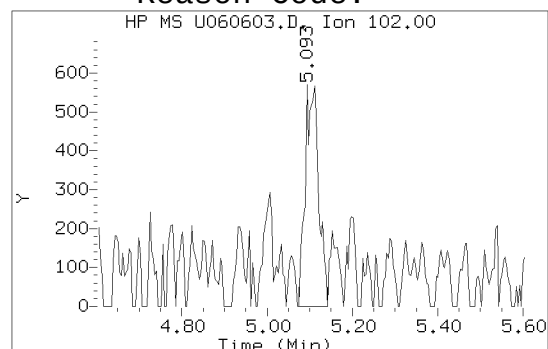
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

1,2-Dichloroethane-d4 (17060-07-0)**BEFORE**

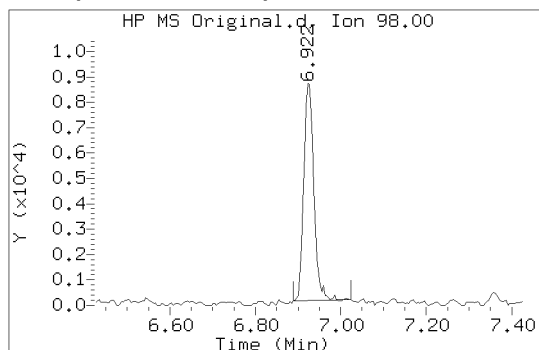
MASS
102
AREA
1254
HEIGHT
570
08-Jun-2023
14:56
linh
pham

**AFTER**

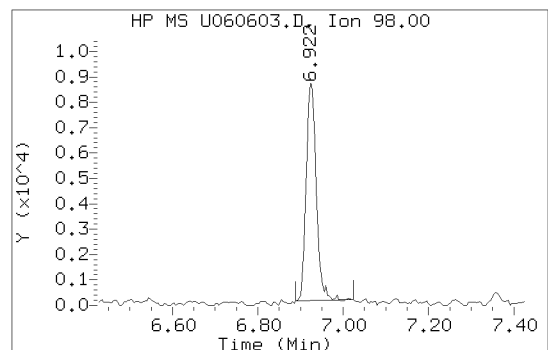
MASS
102
AREA
1254
HEIGHT
570
13-Jun-2023
13:00
linh
pham

Reason Code:**Toluene-d8 (2037-26-5)****BEFORE**

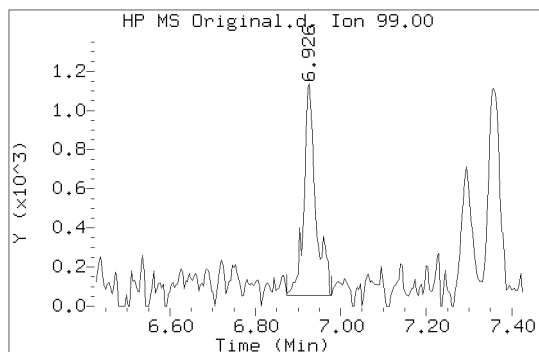
MASS
98
AREA
14408
HEIGHT
8549
08-Jun-2023
14:56
linh
pham

**AFTER**

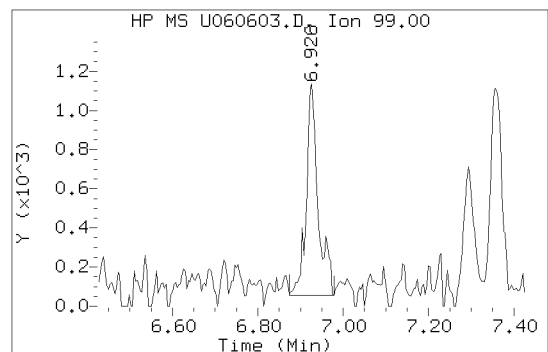
MASS
98
AREA
14408
HEIGHT
8549
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

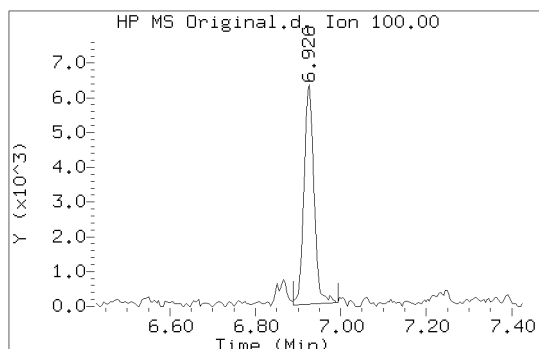
MASS
99
AREA
2122
HEIGHT
1080
08-Jun-2023
14:56
linh
pham

**AFTER**

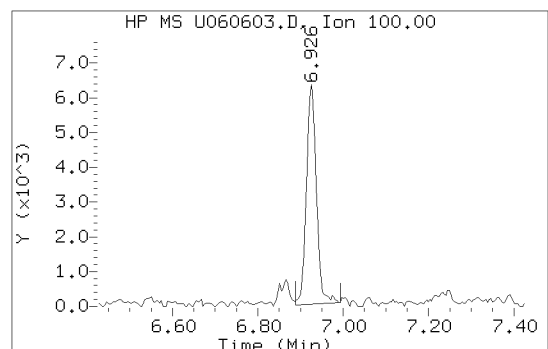
MASS
99
AREA
2122
HEIGHT
1080
13-Jun-2023
13:00
linh
pham

**BEFORE**

MASS
100
AREA
10558
HEIGHT
6311
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
100
AREA
10558
HEIGHT
6311
13-Jun-2023
13:00
linh
pham

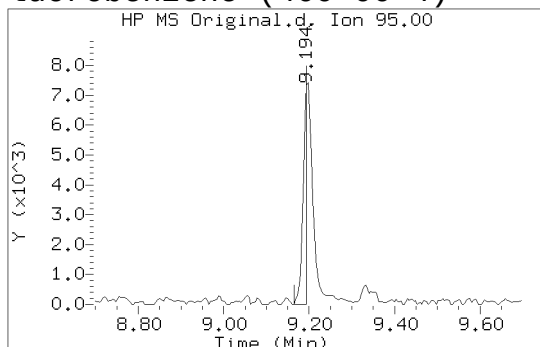


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060603.D
Inj Date : 06-JUN-2023 11:37
InstruID : VOA9.i
LabSampID : VSTD000.5

4-Bromofluorobenzene (460-00-4)

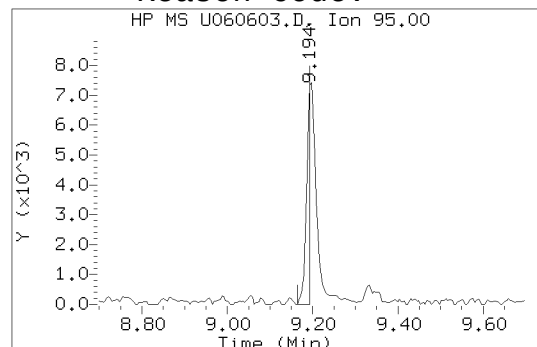
BEFORE

MASS
95
AREA
5007
HEIGHT
7327
08-Jun-2023
14:56
linh



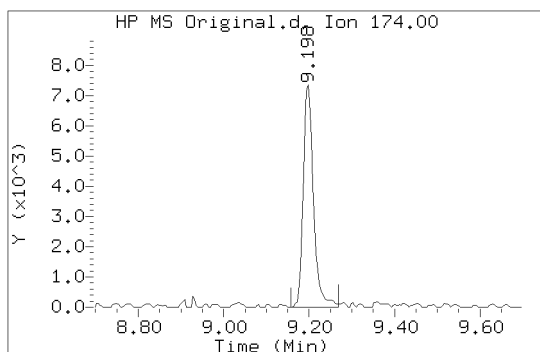
AFTER

MASS
95
AREA
5007
HEIGHT
7327
13-Jun-2023
13:00
linh



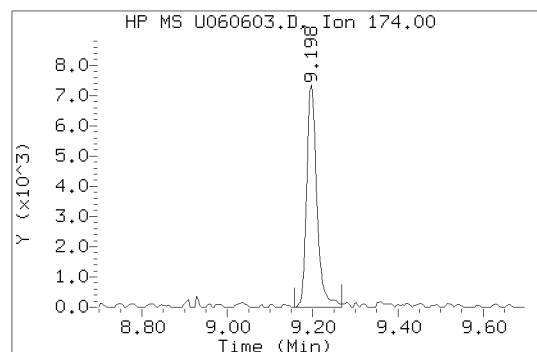
BEFORE

MASS
174
AREA
12552
HEIGHT
7353
08-Jun-2023
14:56
linh
pham



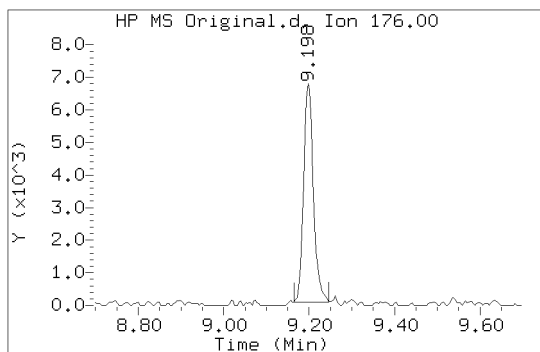
AFTER

MASS
174
AREA
12552
HEIGHT
7353
13-Jun-2023
13:00
linh
pham



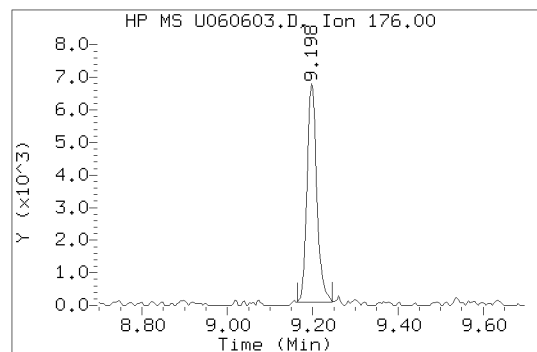
BEFORE

MASS
176
AREA
10910
HEIGHT
6707
08-Jun-2023
14:56
linh
pham



AFTER

MASS
176
AREA
10910
HEIGHT
6707
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D Page 1
 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D
 Lab Smp Id: VSTD005 Client Smp ID: VSTD005
 Inj Date : 06-JUN-2023 13:06
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD005;VSTD005;1;5;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 11:59 Cal File: U060603A.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.811	4.811	(1.000)		661055	50.0000	
2 Dichlorodifluoromethane	85		1.156	1.156	(0.240)		31172	5.00000	5.17
3 Chloromethane	50		1.287	1.287	(0.268)		62455	5.00000	5.08
5 Vinyl Chloride	62		1.370	1.370	(0.285)		36493	5.00000	5.21
6 Bromomethane	94		1.613	1.613	(0.335)		23995	5.00000	5.08
7 Chloroethane	64		1.692	1.692	(0.352)		23603	5.00000	5.01
8 Trichlorofluoromethane	101		1.887	1.887	(0.392)		41967	5.00000	5.22
9 Acrolein	56		2.258	2.258	(0.469)		3393	10.0000	9.67(aM)
10 Acetone	43		2.401	2.401	(0.499)		31915	10.0000	9.15
11 1,1-Dichloroethene	96		2.326	2.326	(0.483)		25586	5.00000	5.09
15 Iodomethane	142		2.461	2.461	(0.512)		10875	10.0000	12.46(M)
16 Acrylonitrile	53		3.060	3.060	(0.636)		26401	10.0000	10.76
17 Methylene Chloride	84		2.787	2.787	(0.579)		34262	5.00000	4.77(a)
18 Methyl tert-butyl ether	73		3.075	3.075	(0.639)		77272	5.00000	5.02
19 Carbon Disulfide	76		2.513	2.513	(0.522)		137840	10.0000	10.27
20 trans-1,2-Dichloroethene	96		3.049	3.049	(0.634)		27553	5.00000	5.04
21 Vinyl Acetate	43		3.604	3.604	(0.749)		174288	10.0000	10.47
22 1,1-Dichloroethane	63		3.507	3.507	(0.729)		52777	5.00000	5.08
24 2-Butanone	43		4.264	4.264	(0.886)		29852	10.0000	9.90
26 2,2-Dichloropropane	77		4.174	4.174	(0.868)		33762	5.00000	5.28



27 cis-1,2-Dichloroethene	96	4.189	4.189 (0.871)	34046	5.00000	5.21
28 Chloroform	83	4.567	4.567 (0.949)	56388	5.00000	5.22

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.462	4.462	(0.928)	18916	5.00000	5.17
\$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	30229	5.00000	5.16
31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	40381	5.00000	4.90(a)
32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	35687	5.00000	4.94(a)
33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	44658	5.00000	5.23
34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	30773	5.00000	4.63(a)
\$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	34153	5.00000	5.08
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	985343	50.0000	
37 Benzene	78	5.137	5.137	(0.926)	124450	5.00000	5.24
38 Trichloroethene	130	5.786	5.786	(1.043)	36191	5.00000	5.25
39 Bromodichloromethane	83	6.277	6.277	(1.131)	36599	5.00000	4.94(a)
42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	32316	5.00000	5.09
44 Dibromomethane	93	6.119	6.119	(1.103)	20983	5.00000	5.18
45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	69130	10.0000	10.20
46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	37734	5.00000	5.56
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	930383	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	106553	5.00000	5.06(M)
50 Toluene	91	6.982	6.982	(0.853)	128415	5.00000	5.08
51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	31811	5.00000	5.68(M)
52 2-Hexanone	43	7.593	7.593	(0.928)	46135	10.0000	9.77
53 1,1,2-Trichloroethane	83	7.356	7.356	(0.899)	27005	5.00000	5.14
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	55865	5.00000	5.20
55 Dibromochloromethane	129	7.694	7.694	(0.940)	28715	5.00000	4.60(a)
56 Tetrachloroethene	164	7.458	7.458	(0.911)	31033	5.00000	5.04
57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	31859	5.00000	4.91(a)
58 1-Chlorohexane	55	8.196	8.196	(1.477)	23998	5.00000	4.74(aM)
59 Chlorobenzene	112	8.211	8.211	(1.003)	93304	5.00000	5.18
60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	29452	5.00000	4.75(a)
61 Ethylbenzene	106	8.305	8.305	(1.015)	40417	5.00000	4.82(a)
62 m,p-Xylenes	106	8.410	8.410	(1.027)	87802	10.0000	8.85(a)
63 o-Xylene	106	8.747	8.747	(1.069)	45979	5.00000	4.69(a)
64 Styrene	104	8.762	8.762	(1.071)	64961	5.00000	4.17(a)
66 Bromoform	173	8.920	8.920	(1.090)	18587	5.00000	4.42(a)
67 Isopropylbenzene	105	9.062	9.062	(1.107)	111398	5.00000	4.73(a)
68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	44946	5.00000	5.11
\$ 69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	49215	5.00000	5.13
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	467357	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	38304	5.00000	4.95(a)
73 n-Propylbenzene	91	9.411	9.411	(0.925)	110045	5.00000	4.48(a)
74 Bromobenzene	156	9.317	9.317	(0.916)	38901	5.00000	4.93(a)
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	78874	5.00000	4.68(a)
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	85816	5.00000	4.97(a)
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	94195	5.00000	4.93(a)
78 tert-Butylbenzene	119	9.838	9.838	(0.967)	79517	5.00000	4.81(a)
79 1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	85616	5.00000	4.86(a)
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	96016	5.00000	4.58(a)
82 p-Isopropyltoluene	119	10.145	10.145	(0.997)	79695	5.00000	4.54(a)
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	67753	5.00000	5.05
84 1,4-Dichlorobenzene	146	10.190	10.190	(1.002)	73343	5.00000	5.13
87 n-Butylbenzene	91	10.494	10.494	(1.032)	70944	5.00000	4.72(a)
88 1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	65904	5.00000	4.90(a)
89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	5840	5.00000	4.55(a)



90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	42718	5.00000	4.62(a)
92 Naphthalene	128	12.069	12.069 (1.186)	95946	5.00000	4.47(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D Page 3
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	42734	5.00000	4.73(a)
M 94 1,2-Dichloroethylene (total)	96				61599	10.0000	(a)
135 1,4-Dioxane	88	6.172	6.172	(1.283)	12691	100.000	96.68(a)
141 Cyclohexane	56	4.777	4.777	(0.993)	37840	5.00000	4.93(aM)
138 Freon TF	101	2.326	2.326	(0.483)	23128	5.00000	5.20
140 1,3-Butadiene	54	1.396	1.396	(0.290)	32480	5.00000	5.18
147 Methylcyclohexane	55	5.947	5.947	(1.072)	68659	5.00000	5.02
146 Methyl Acetate	43	2.708	2.708	(0.563)	27090	5.00000	4.86(a)
148 Tert-Butyl alcohol	59	2.963	2.963	(0.616)	66425	100.000	104.33
149 Isopropyl Alcohol	45	2.558	2.558	(0.532)	41674	100.000	96.43(T)
72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	5142	5.00000	4.79(M)
12 Isobutyl Alcohol	43	5.287	5.287	(1.099)	83135	100.000	96.79(M)
13 Acetonitrile	39	2.663	2.663	(0.554)	35522	50.0000	49.63
14 Allyl Chloride	41	2.667	2.667	(0.554)	87674	5.00000	5.10
25 Methacrylonitrile	41	4.492	4.492	(0.934)	18250	5.00000	4.67
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	26729	5.00000	4.70
4 Propionitrile	54	4.335	4.335	(0.901)	49866	50.0000	52.20(a)
136 n-Hexane	57	3.334	3.334	(0.693)	28289	5.00000	5.36
194 Acetaldehyde	44	1.452	1.452	(0.302)	14773	20.0000	16.20(M)
131 Methyl Acrylate	55	4.369	4.369	(0.908)	32767	5.00000	4.68(aM)
200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	15263	5.00000	6.61(M)
23 Chloroprene	53	2.150	2.150	(0.447)	9849	5.00000	4.67(aM)
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	44828	5.00000	5.18
166 1,2,3-Trimethylbenzene	105	10.235	10.235	(1.006)	96136	5.00000	5.35
167 Ethanol	45	2.075	2.075	(0.431)	9968	100.000	100.77
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	115572	5.00000	5.06
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	33946	5.00000	7.13
142 Tetrahydrofuran	42	4.541	4.541	(0.944)	13490	10.0000	9.46
156 Diisopropyl ether	45	3.615	3.615	(0.751)	94647	5.00000	5.13(T)
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	137040	100.000	93.52
150 Allyl alcohol	57	3.334	3.334	(0.693)	27611	100.000	105.45(M)
86 Benzyl Chloride	91	10.310	10.310	(1.260)	22092	5.00000	7.16
162 Butyl acrylate	55	8.736	8.736	(1.067)	52526	5.00000	4.77(a)
139 Diethyl ether	59	2.135	2.135	(0.444)	23079	5.00000	5.16
203 2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	19373	5.00000	6.09
134 Cyclohexanone	55	9.156	9.156	(0.900)	28189	100.000	97.28(a)
130 Ethyl Acetate	43	4.264	4.264	(0.886)	29376	5.00000	4.97(aM)
189 n-Butyl acetate	43	7.709	7.709	(0.942)	50116	5.00000	4.73(aM)
182 Epichlorohydrin	57	6.629	6.629	(1.195)	2028	20.0000	31.12(M)

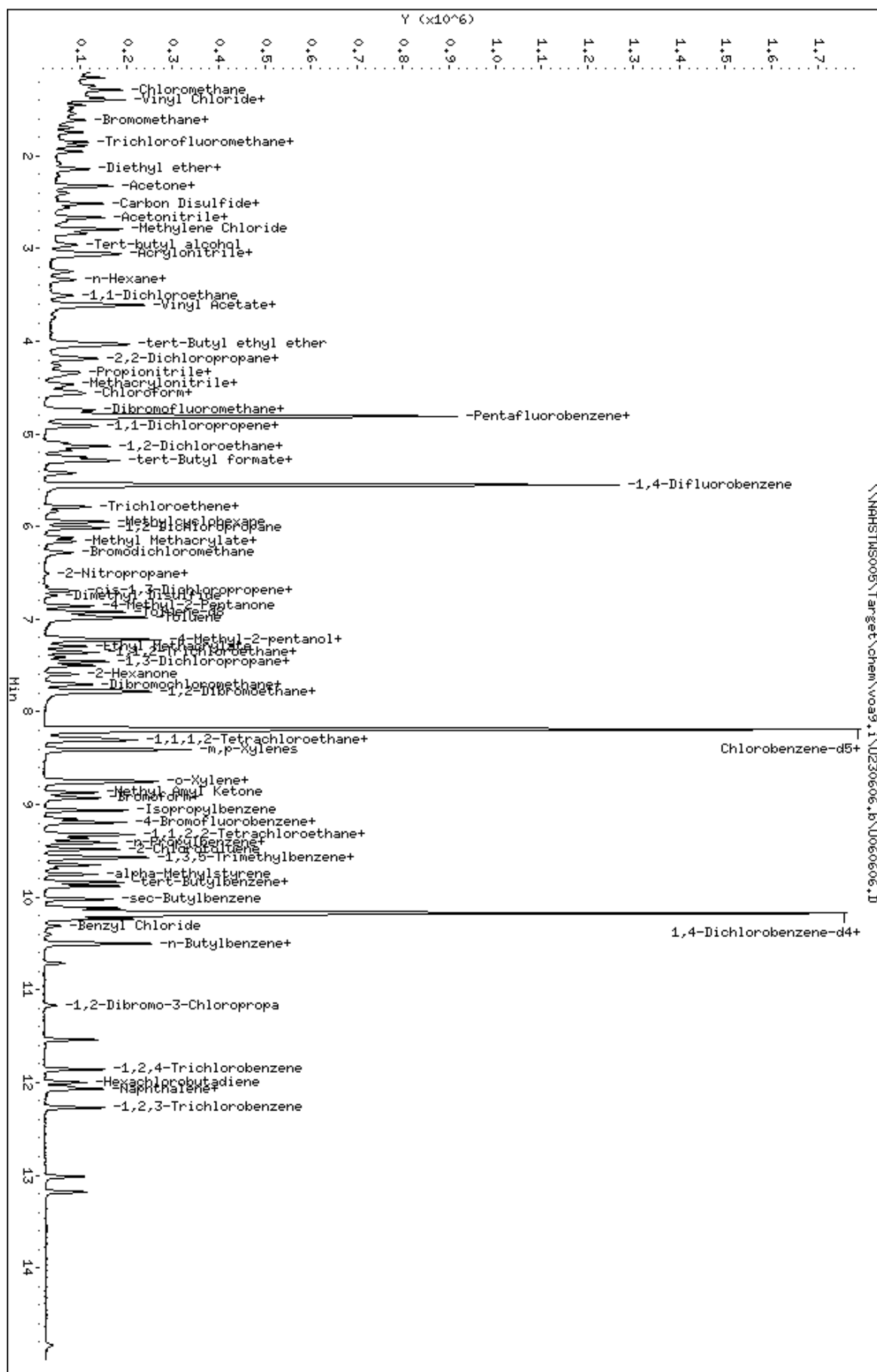
QC Flag Legend

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



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 Client ID: WSTD005
 Sample Info: WSTD005;WSTD005;1;5;
 Purge Volume: 5.0
 Column phase: DB624

Instrument: VDA9.i
 Operator: PC
 Column diameter: 0.18

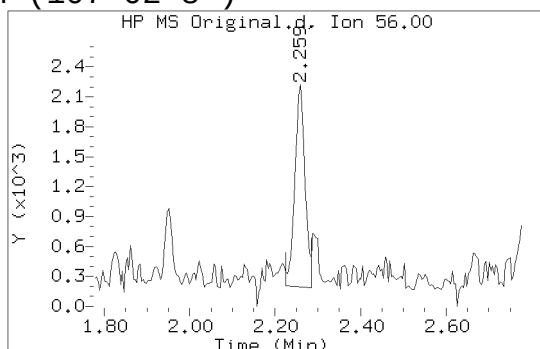


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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Acrolein (107-02-8)

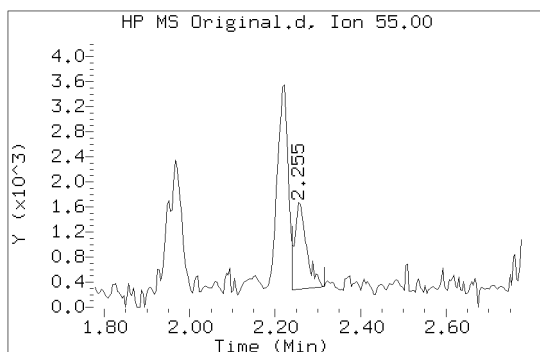
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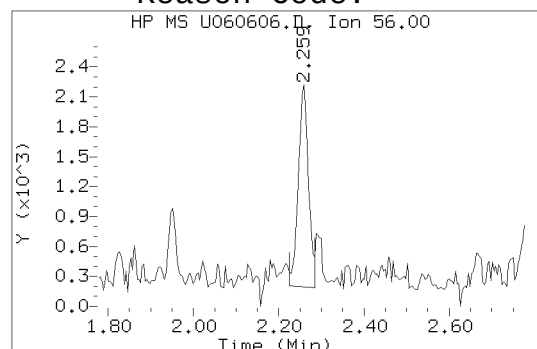
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pham



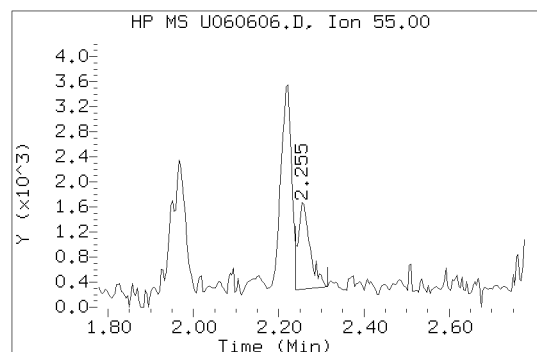
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AFTER

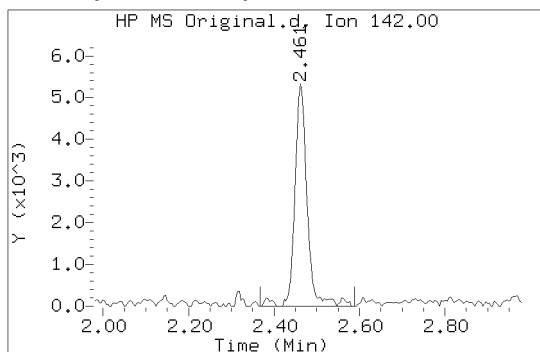
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Iodomethane (74-88-4)

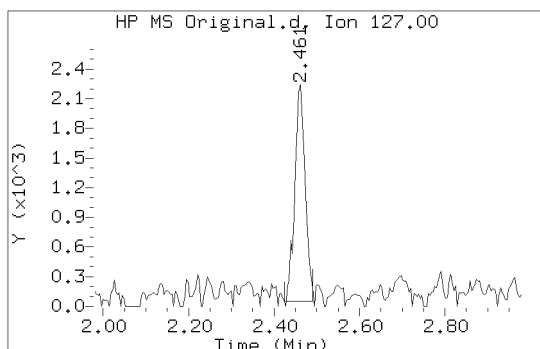
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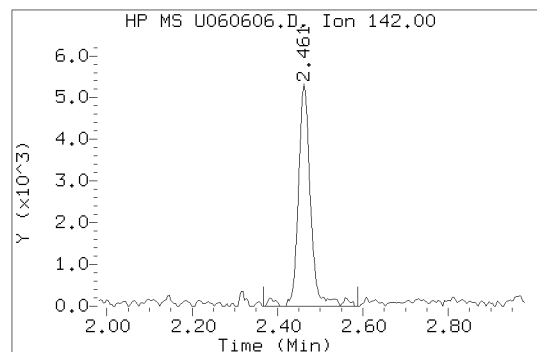
BEFORE

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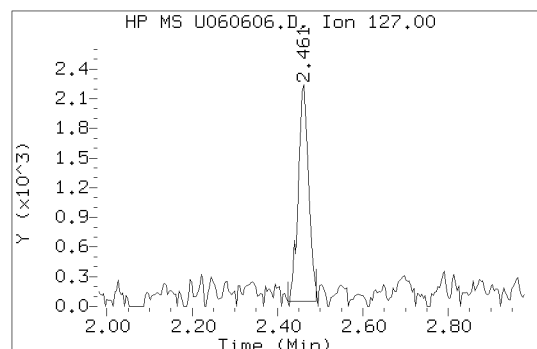
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13-Jun-2023
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pham



AFTER

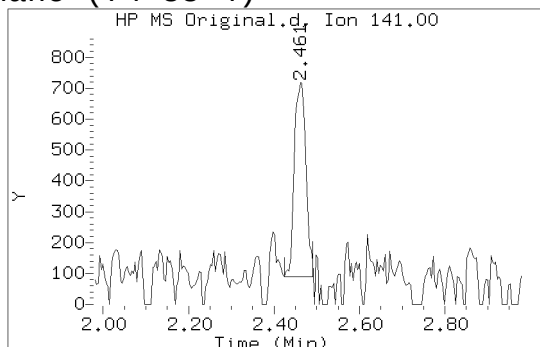
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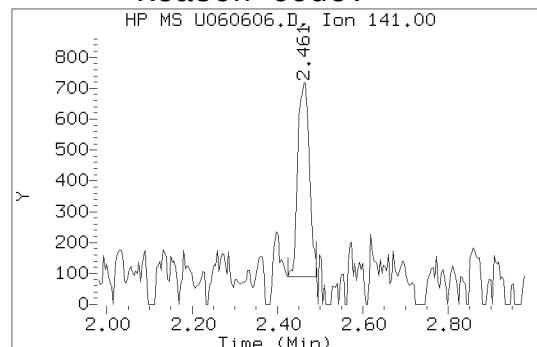
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InstruID : VOA9.i
LabSampID : VSTD005

Iodomethane (74-88-4)**BEFORE**

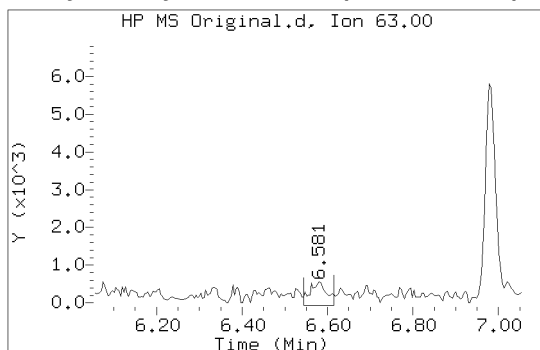
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**AFTER**

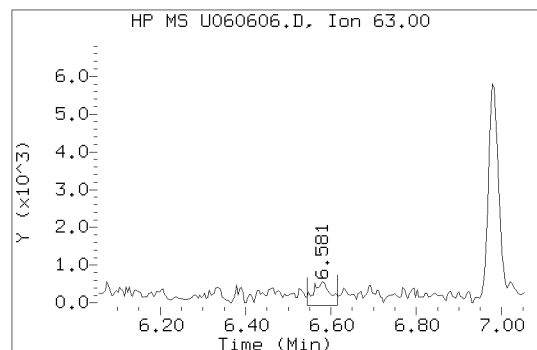
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13-Jun-2023
13:00
linh
pham

**2-Chloroethylvinyl ether (110-75-8)****BEFORE**

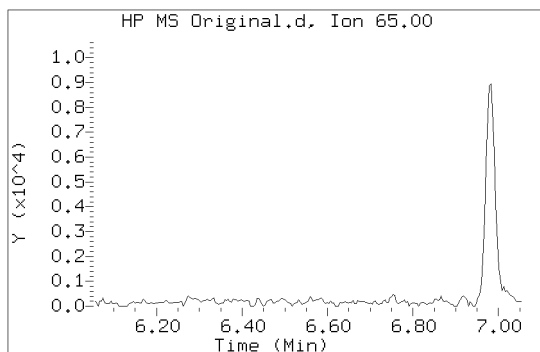
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HEIGHT
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**AFTER**

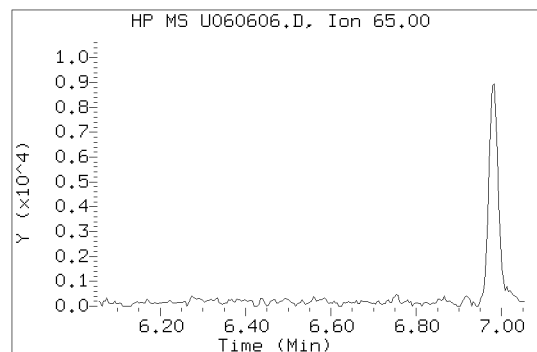
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HEIGHT
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13:00
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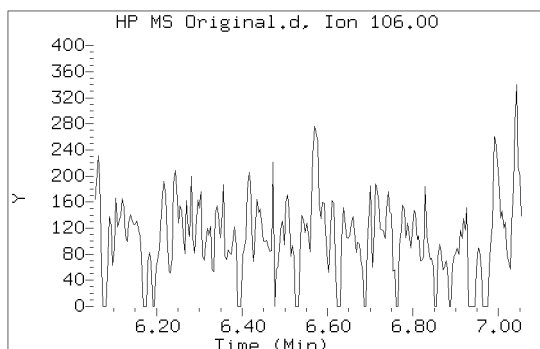
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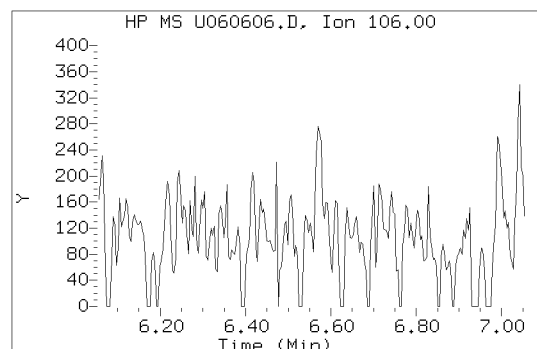
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13:00
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pham

**BEFORE**

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AREA
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HEIGHT
0
08-Jun-2023
14:56
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**AFTER**

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13-Jun-2023
13:00
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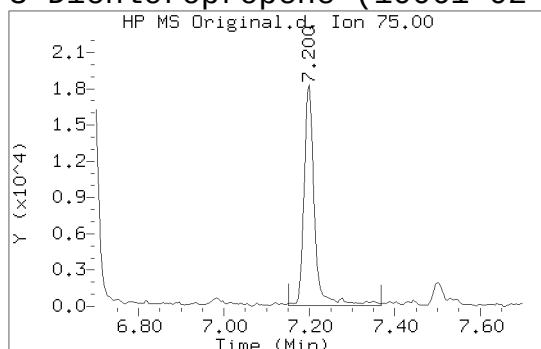


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InstruID : VOA9.i
LabSampID : VSTD005

trans-1,3-Dichloropropene (10061-02-6)

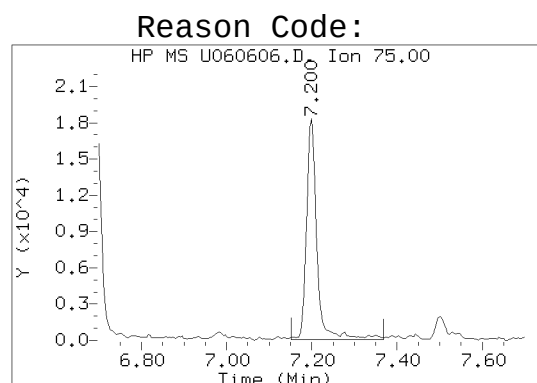
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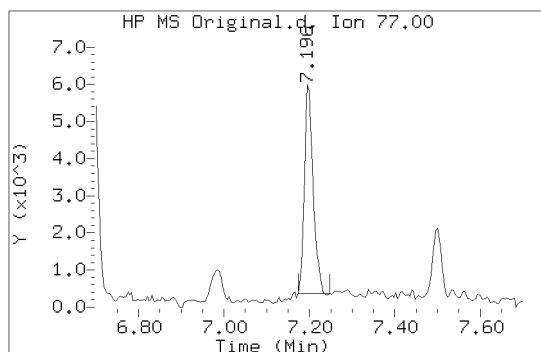
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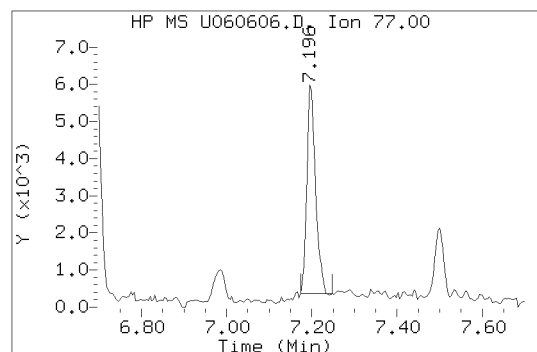
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14:56
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pham



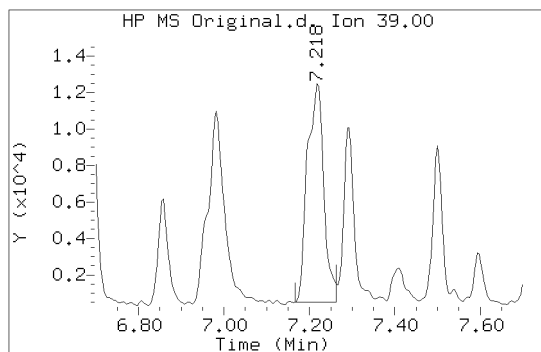
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13-Jun-2023
13:00
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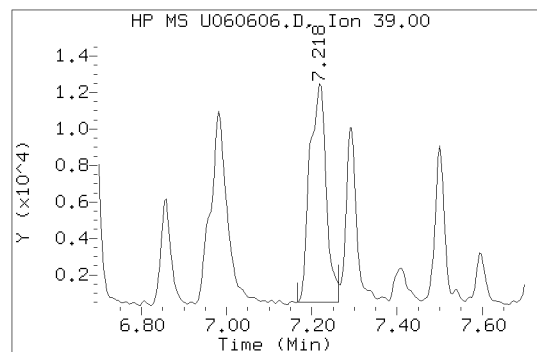
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08-Jun-2023
14:56
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pham



AFTER

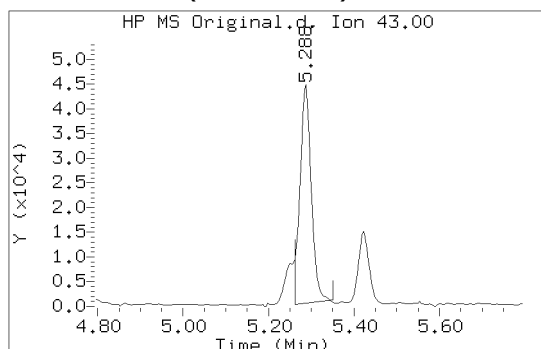
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13-Jun-2023
13:00
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pham



Isobutyl Alcohol (78-83-1)

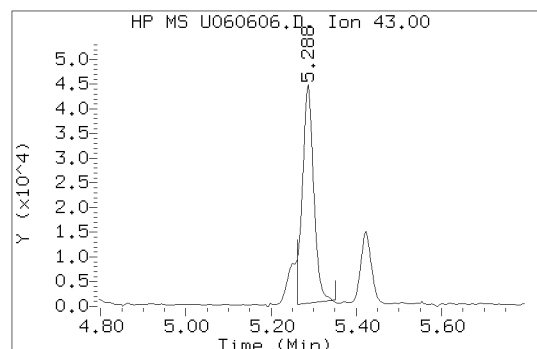
BEFORE

MASS
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AREA
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HEIGHT
44258
08-Jun-2023
14:56
linh
pham



AFTER

MASS
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AREA
83135
HEIGHT
44258
13-Jun-2023
13:00
linh
pham

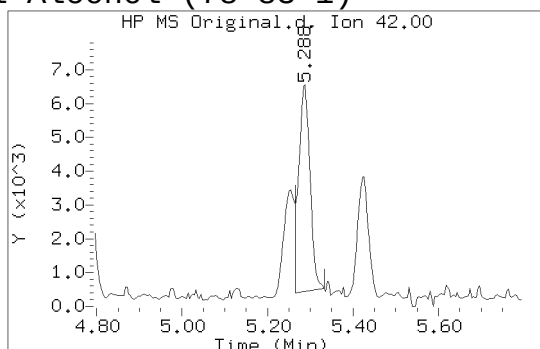


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InstruID : VOA9.i
LabSampID : VSTD005

Isobutyl Alcohol (78-83-1)

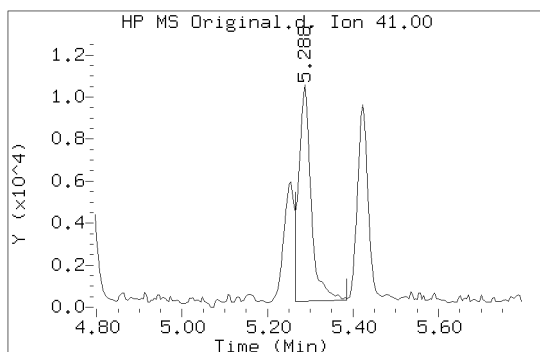
BEFORE

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HEIGHT
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08-Jun-2023
14:56
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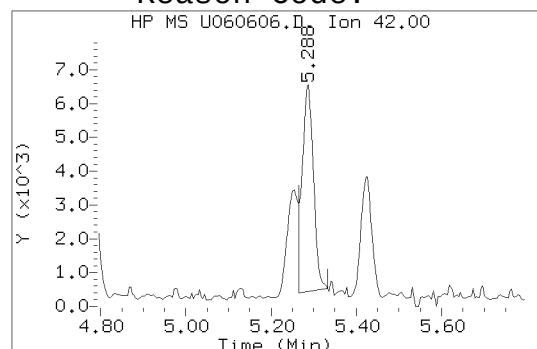
BEFORE

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HEIGHT
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14:56
linh
pham



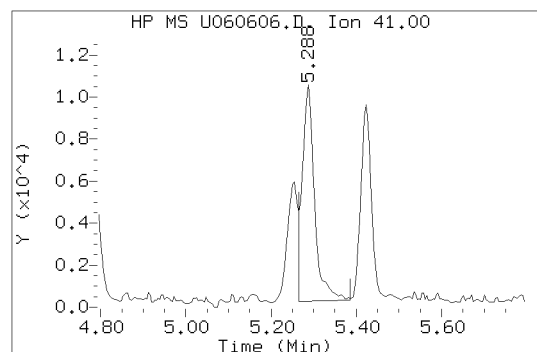
AFTER

MASS
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AREA
11630
HEIGHT
6123
13-Jun-2023
13:00
linh



AFTER

MASS
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AREA
21244
HEIGHT
10293
13-Jun-2023
13:00
linh
pham

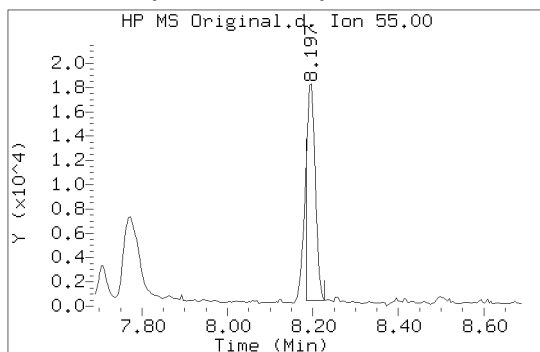


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1-Chlorohexane (544-10-5)

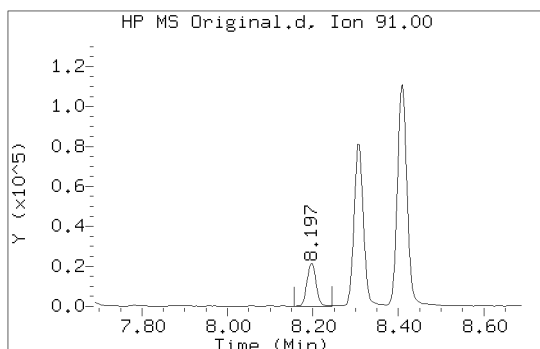
BEFORE

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HEIGHT
17834
08-Jun-2023
14:56
linh
pham



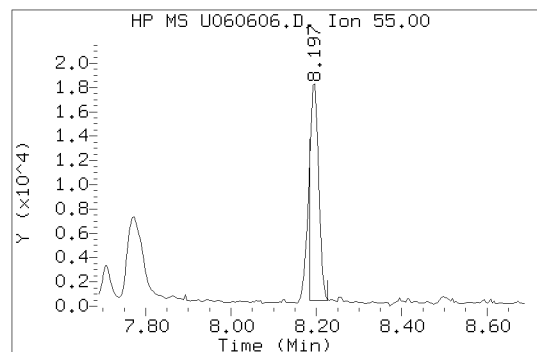
BEFORE

MASS
91
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21527
08-Jun-2023
14:56
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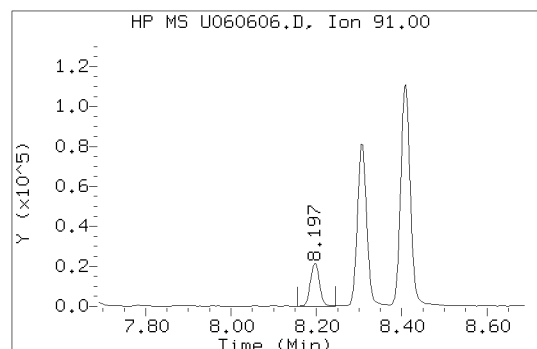
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HEIGHT
17834
13-Jun-2023
13:00
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AFTER

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HEIGHT
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13-Jun-2023
13:00
linh
pham



Reason Code:

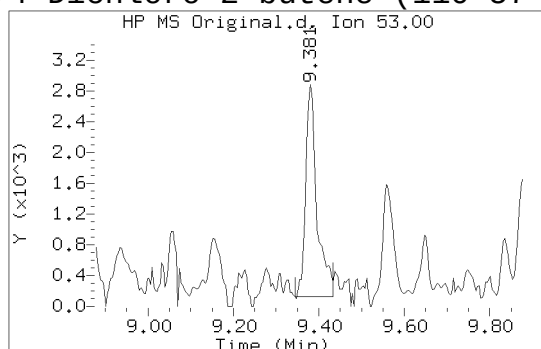


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Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

trans-1,4-Dichloro-2-butene (110-57-6)

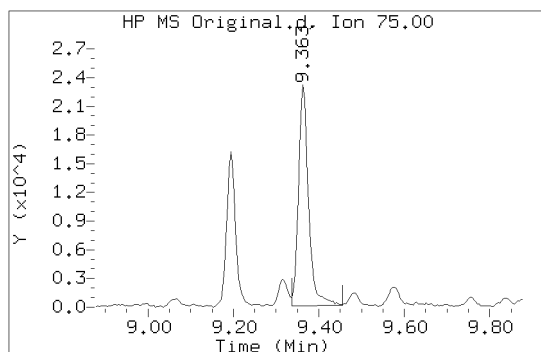
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BEFORE

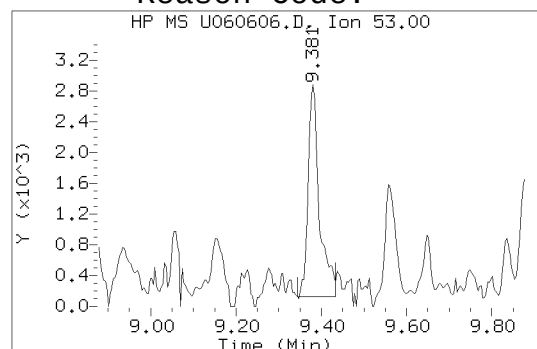
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AFTER

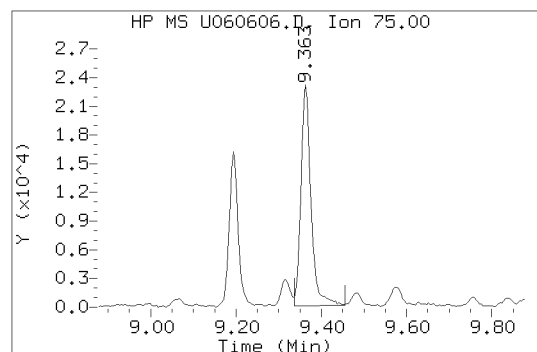
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Reason Code:



AFTER

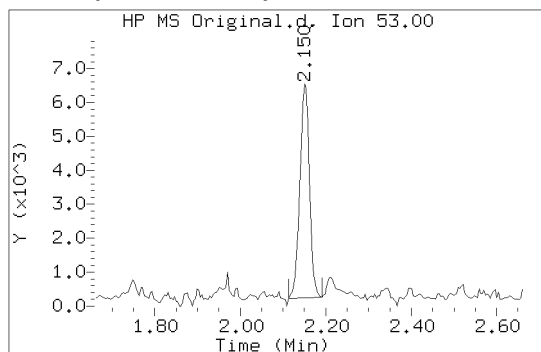
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13-Jun-2023
13:00
linh
pham



Chloroprene (126-99-8)

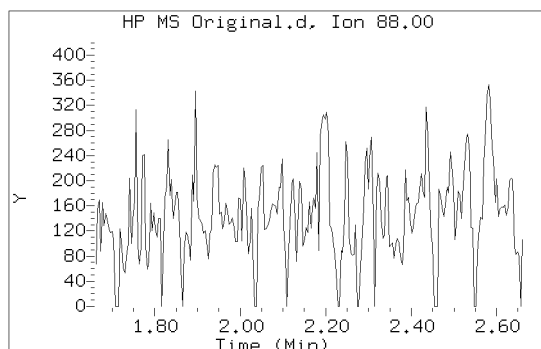
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HEIGHT
6297
08-Jun-2023
14:56
linh
pham



BEFORE

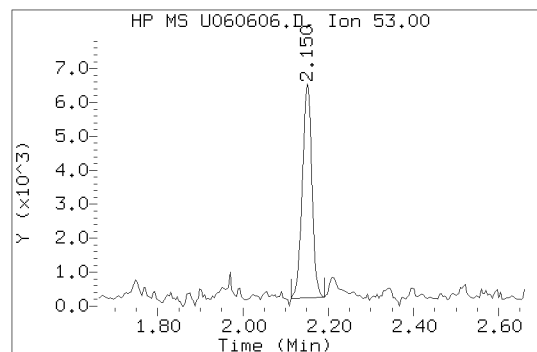
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

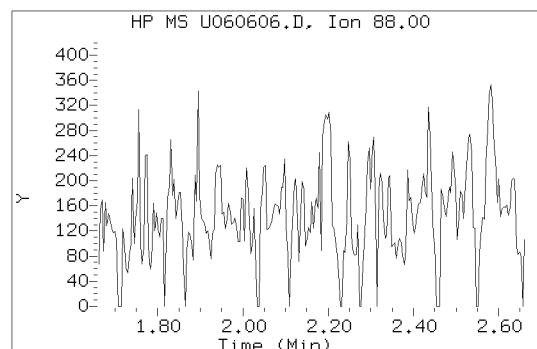
MASS
53
AREA
9849
HEIGHT
6297
13-Jun-2023
13:00
linh
pham

Reason Code:



AFTER

MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

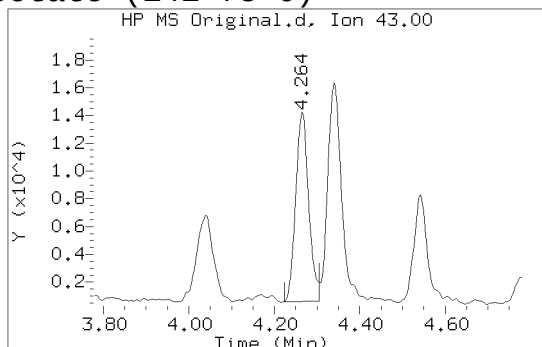


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060606.D
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

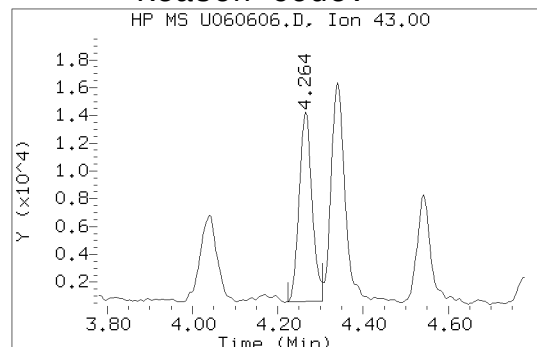
BEFORE

MASS
43
AREA
29376
HEIGHT
13625
08-Jun-2023
14:56
linh



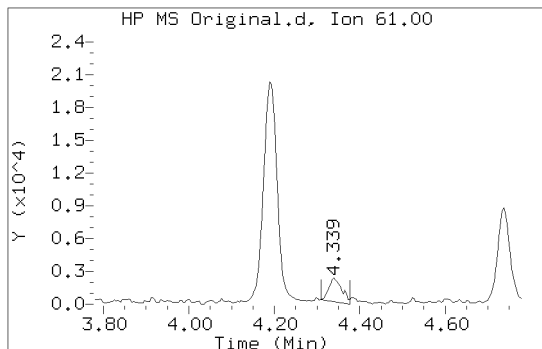
AFTER

MASS
43
AREA
29376
HEIGHT
13625
13-Jun-2023
13:00
linh



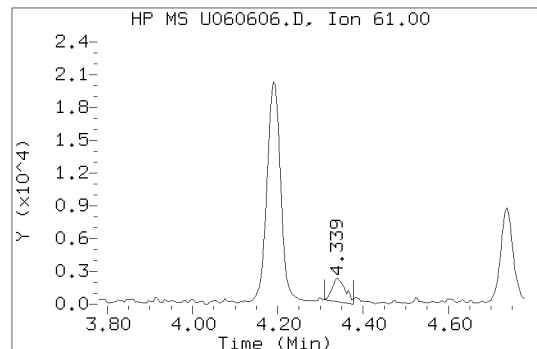
BEFORE

MASS
61
AREA
4693
HEIGHT
2196
08-Jun-2023
14:56
linh
pham



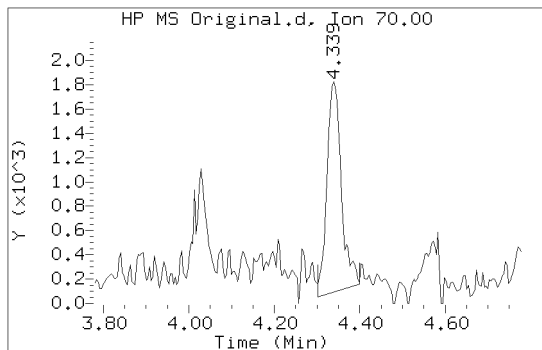
AFTER

MASS
61
AREA
4693
HEIGHT
2196
13-Jun-2023
13:00
linh
pham



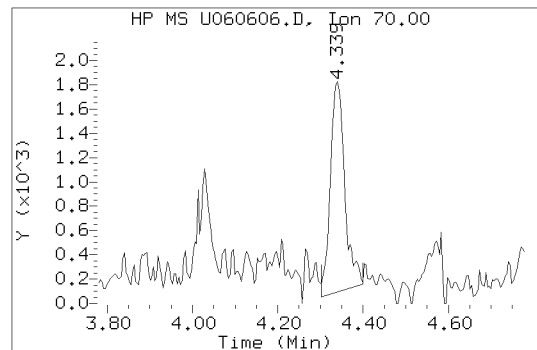
BEFORE

MASS
70
AREA
4078
HEIGHT
1731
08-Jun-2023
14:56
linh
pham



AFTER

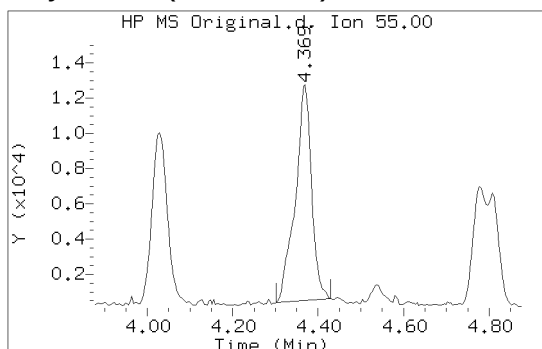
MASS
70
AREA
4078
HEIGHT
1731
13-Jun-2023
13:00
linh
pham



Methyl Acrylate (96-33-3)

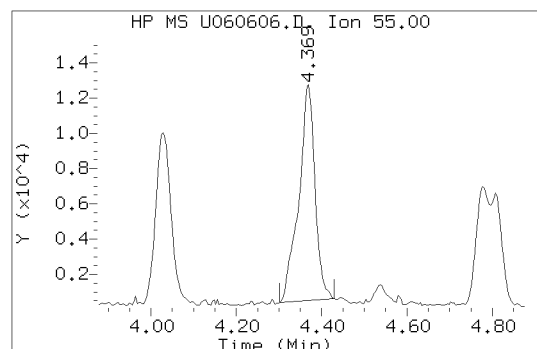
BEFORE

MASS
55
AREA
32767
HEIGHT
12241
08-Jun-2023
14:56
linh
pham



AFTER

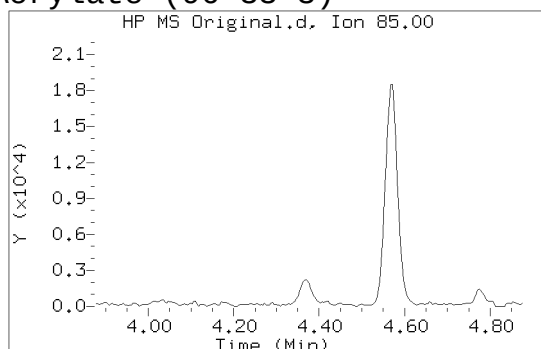
MASS
55
AREA
32767
HEIGHT
12241
13-Jun-2023
13:00
linh
pham



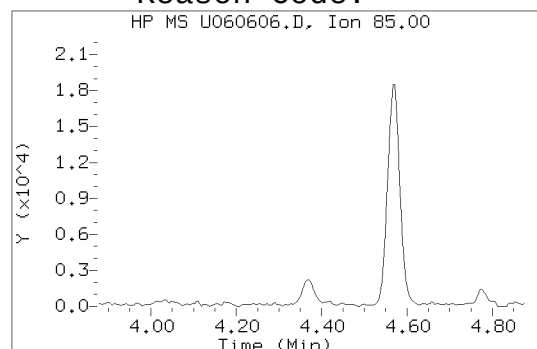
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)**BEFORE**

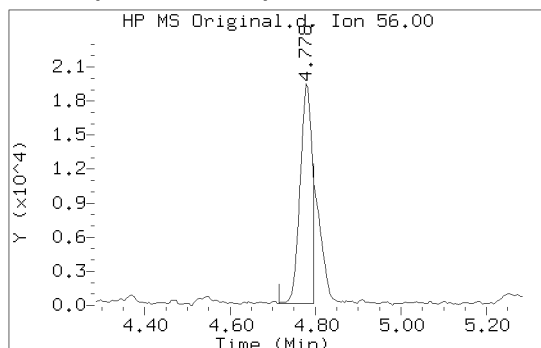
MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

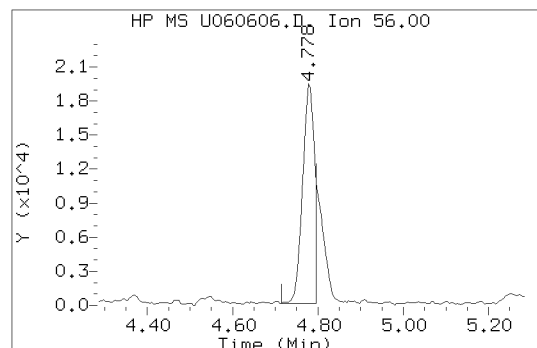
MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**Cyclohexane (110-82-7)****BEFORE**

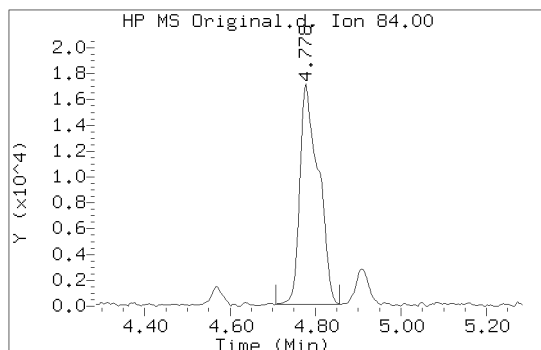
MASS
56
AREA
37840
HEIGHT
19339
08-Jun-2023
14:56
linh
pham

**AFTER**

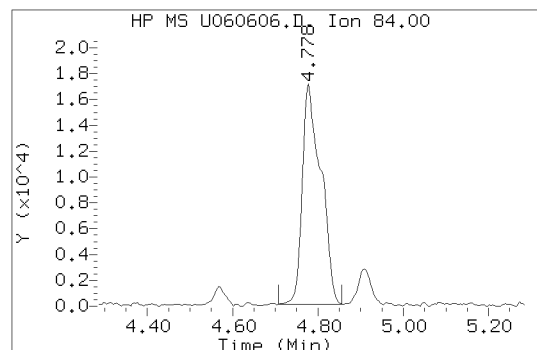
MASS
56
AREA
37840
HEIGHT
19339
13-Jun-2023
13:00
linh
pham

**BEFORE**

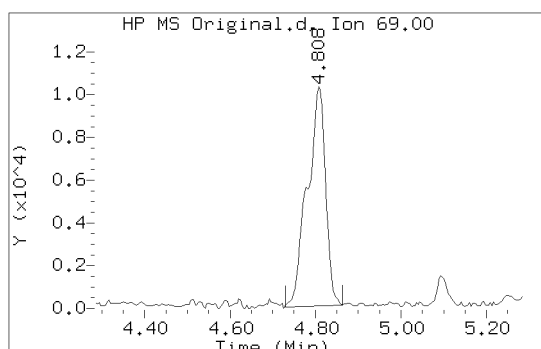
MASS
84
AREA
52176
HEIGHT
17059
08-Jun-2023
14:56
linh
pham

**AFTER**

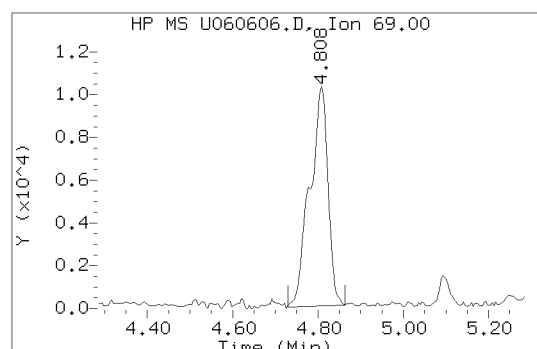
MASS
84
AREA
52176
HEIGHT
17059
13-Jun-2023
13:00
linh
pham

**BEFORE**

MASS
69
AREA
30602
HEIGHT
10254
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
69
AREA
30602
HEIGHT
10254
13-Jun-2023
13:00
linh
pham

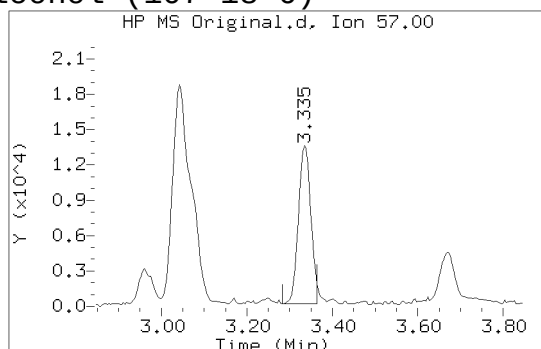


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D
 Inj Date : 06-JUN-2023 13:06
 InstruID : VOA9.i
 LabSampID : VSTD005

Allyl alcohol (107-18-6)

BEFORE

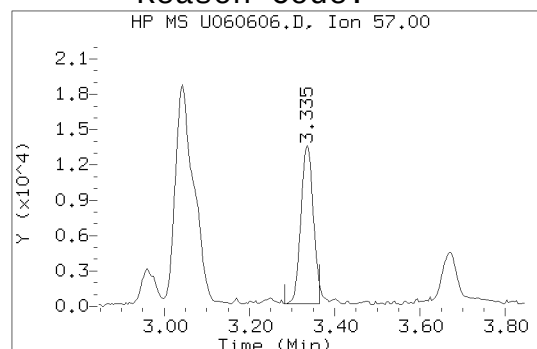
MASS
57
AREA
27611
HEIGHT
13437
08-Jun-2023
14:56
linh
pham



AFTER

MASS
57
AREA
27611
HEIGHT
13437
13-Jun-2023
13:00
linh
pham

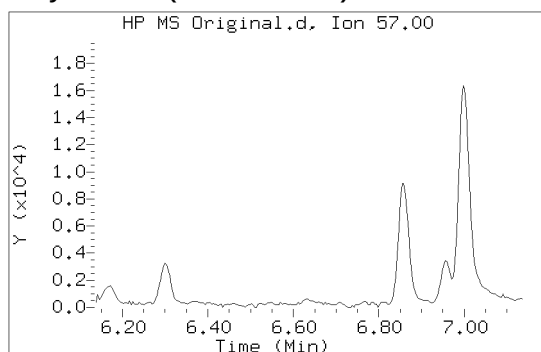
Reason Code:



Epichlorohydrin (106-89-8)

BEFORE

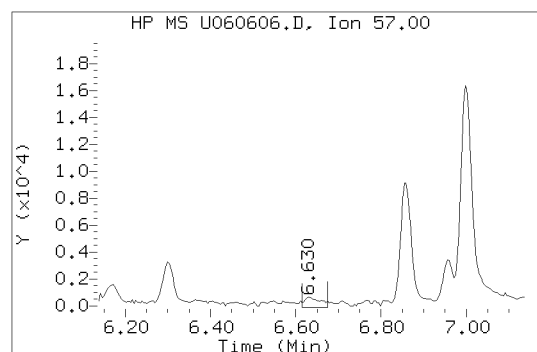
MASS
57
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

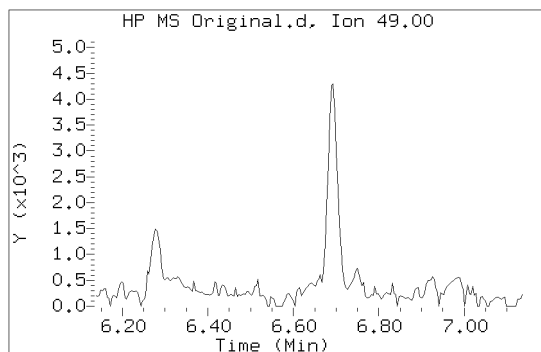
MASS
57
AREA
2028
HEIGHT
746
13-Jun-2023
13:00
linh
pham

Reason Code:



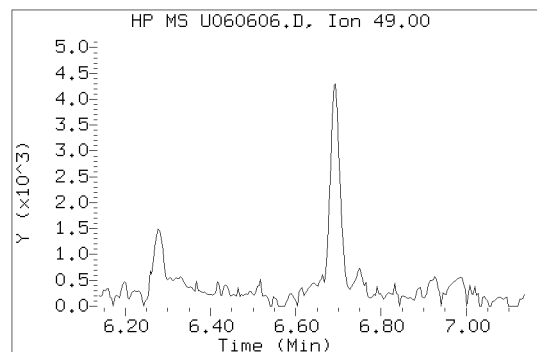
BEFORE

MASS
49
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

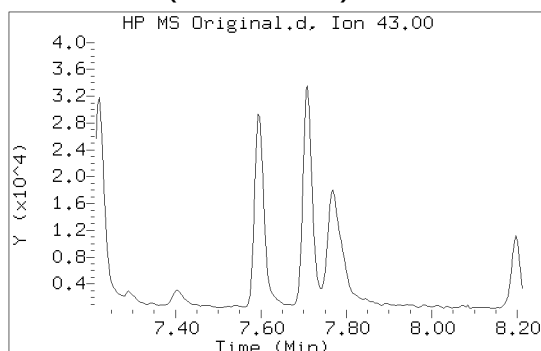
MASS
49
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



n-Butyl acetate (123-86-4)

BEFORE

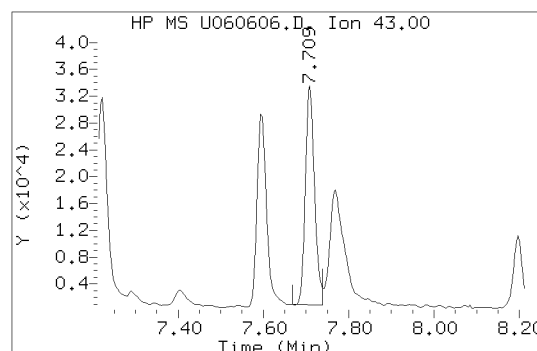
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
50116
HEIGHT
32605
13-Jun-2023
13:00
linh
pham

Reason Code:

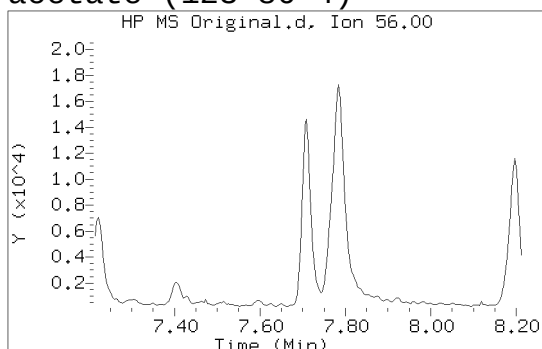


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060606.D
 Inj Date : 06-JUN-2023 13:06
 InstruID : VOA9.i
 LabSampID : VSTD005

n-Butyl acetate (123-86-4)

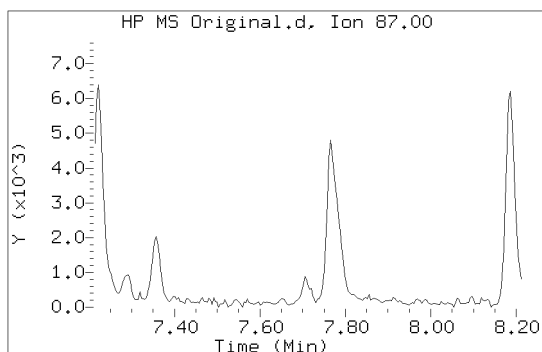
BEFORE

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh



BEFORE

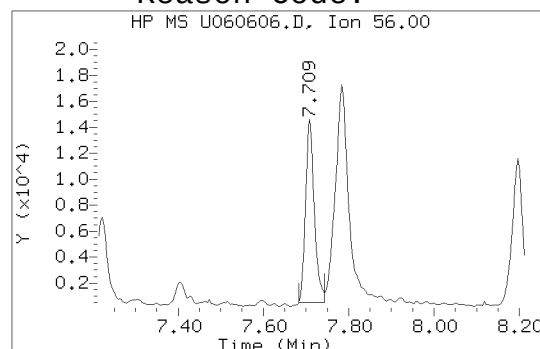
MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

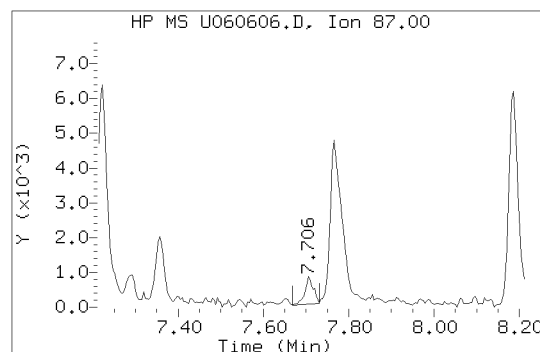
AFTER

MASS
56
AREA
20725
HEIGHT
14102
13-Jun-2023
13:00
linh



AFTER

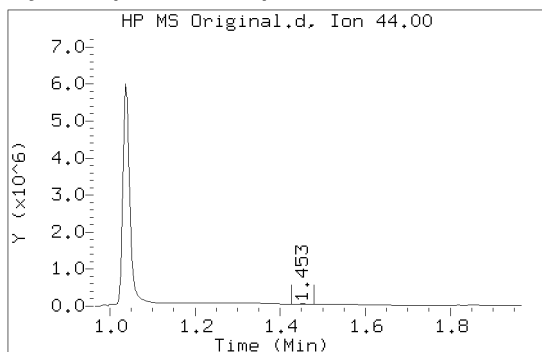
MASS
87
AREA
1088
HEIGHT
786
13-Jun-2023
13:00
linh
pham



Acetaldehyde (75-07-0)

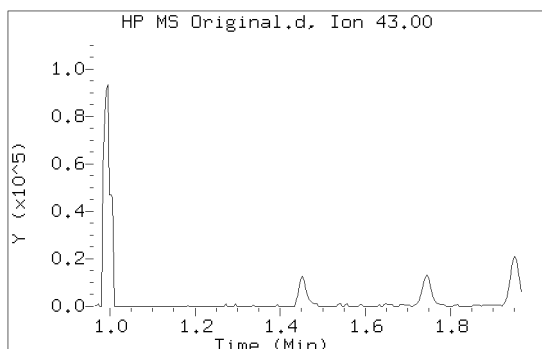
BEFORE

MASS
44
AREA
14773
HEIGHT
16936
08-Jun-2023
14:56
linh
pham



BEFORE

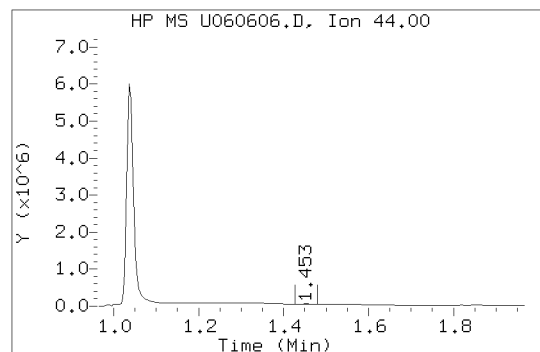
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



Reason Code:

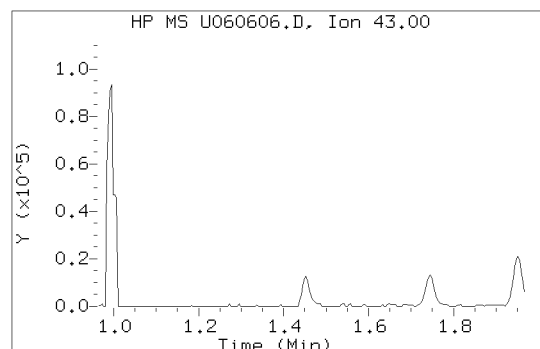
AFTER

MASS
44
AREA
14773
HEIGHT
16936
13-Jun-2023
13:00
linh
pham



AFTER

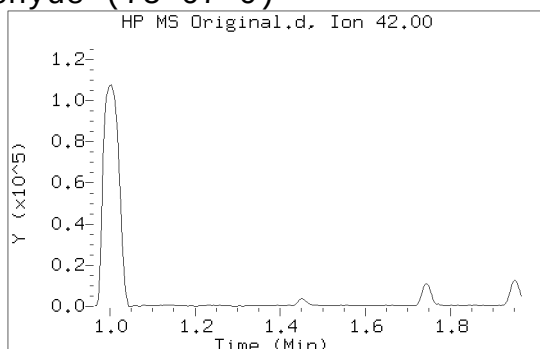
MASS
43
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



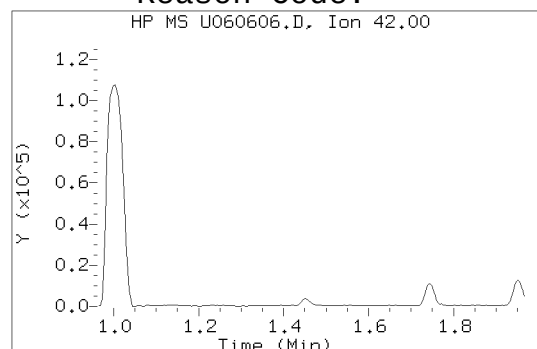
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060606.D
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)**BEFORE**

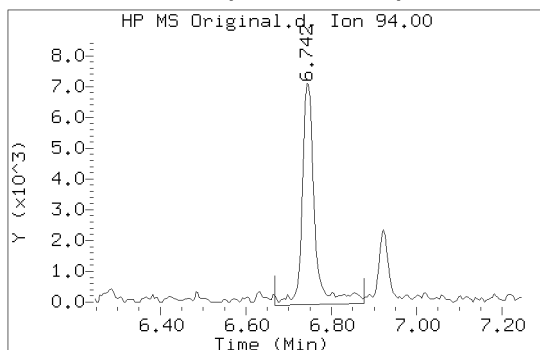
MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

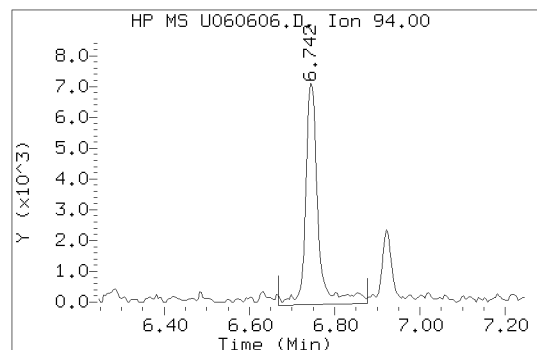
MASS
42
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

Reason Code:**Dimethyl Disulfide (624-92-0)****BEFORE**

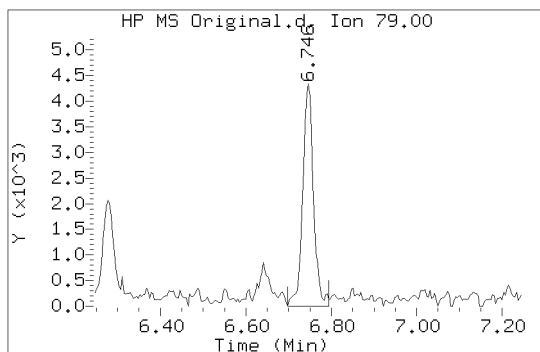
MASS
94
AREA
15263
HEIGHT
7177
08-Jun-2023
14:56
linh
pham

**AFTER**

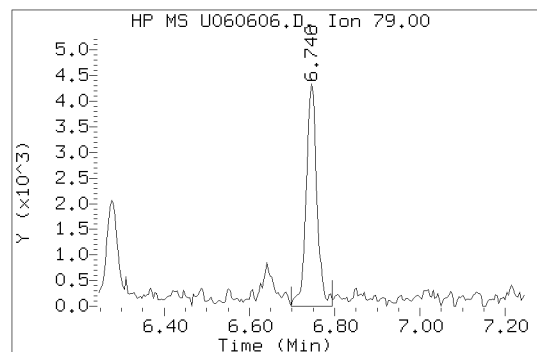
MASS
94
AREA
15263
HEIGHT
7177
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

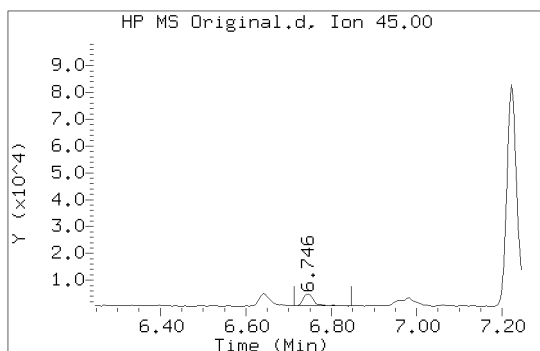
MASS
79
AREA
7740
HEIGHT
4338
08-Jun-2023
14:56
linh
pham

**AFTER**

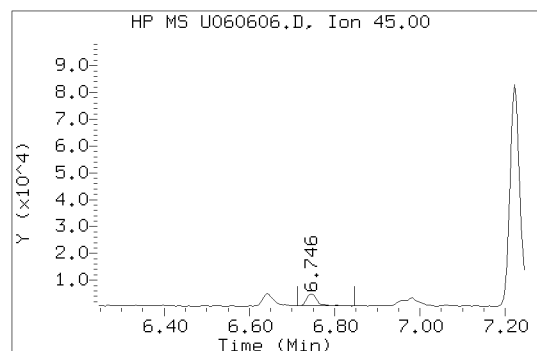
MASS
79
AREA
7740
HEIGHT
4338
13-Jun-2023
13:00
linh
pham

**BEFORE**

MASS
45
AREA
8050
HEIGHT
4392
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
45
AREA
8050
HEIGHT
4392
13-Jun-2023
13:00
linh
pham

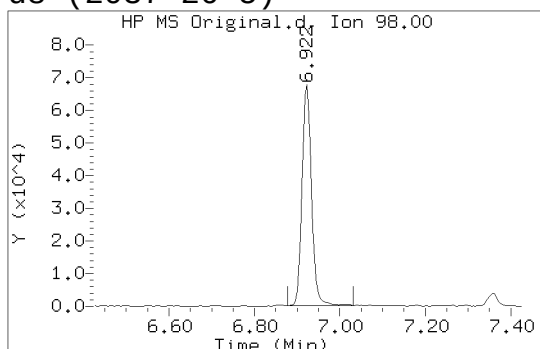


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060606.D
Inj Date : 06-JUN-2023 13:06
InstruID : VOA9.i
LabSampID : VSTD005

Toluene-d8 (2037-26-5)

BEFORE

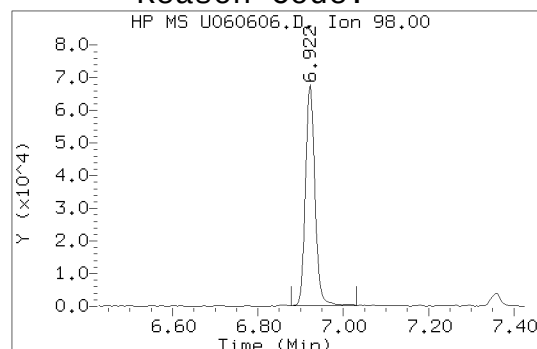
MASS
98
AREA
106553
HEIGHT
67651
08-Jun-2023
14:56
linh
pham



AFTER

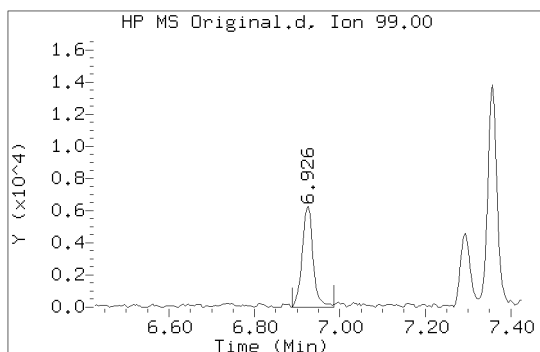
MASS
98
AREA
106553
HEIGHT
67651
13-Jun-2023
13:00
linh
pham

Reason Code:



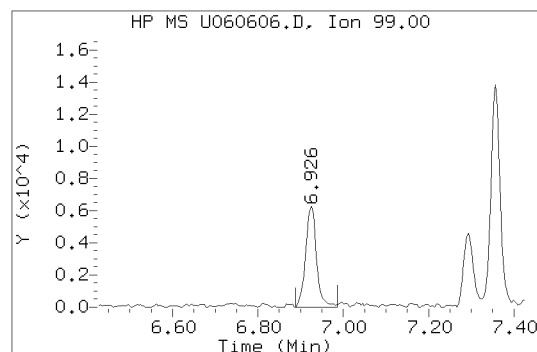
BEFORE

MASS
99
AREA
11406
HEIGHT
6274
08-Jun-2023
14:56
linh
pham



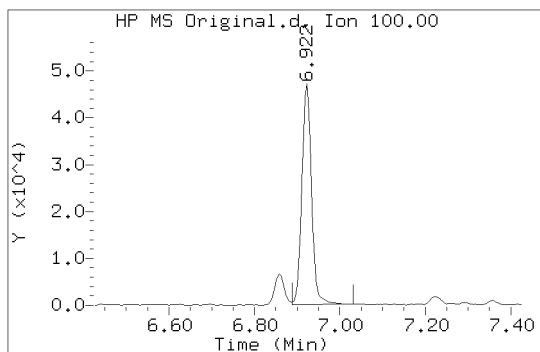
AFTER

MASS
99
AREA
11406
HEIGHT
6274
13-Jun-2023
13:00
linh
pham



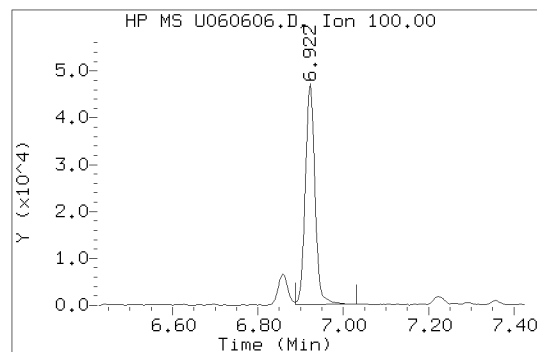
BEFORE

MASS
100
AREA
75525
HEIGHT
47179
08-Jun-2023
14:56
linh
pham



AFTER

MASS
100
AREA
75525
HEIGHT
47179
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D Page 1
 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
 Lab Smp Id: VSTD001 Client Smp ID: VSTD001
 Inj Date : 06-JUN-2023 13:28
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD001;VSTD001;1;3;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:06 Cal File: U060606.D
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

		QUANT SIG				AMOUNTS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	679602	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	5058	1.00000	0.88(a)
5 Vinyl Chloride	62	1.374	1.374	(0.285)	5942	1.00000	0.82(a)
7 Chloroethane	64	1.696	1.696	(0.352)	5340	1.00000	1.10(a)
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	6909	1.00000	0.83(a)
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	4736	1.00000	0.91(a)
15 Iodomethane	142	2.465	2.465	(0.512)	3593	2.00000	10.69(TM)
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	16686	1.00000	1.05(a)
19 Carbon Disulfide	76	2.517	2.517	(0.523)	25547	2.00000	1.85(a)
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	5007	1.00000	0.89(a)
22 1,1-Dichloroethane	63	3.514	3.514	(0.730)	11574	1.00000	1.08(a)
24 2-Butanone	43	4.272	4.272	(0.887)	7341	2.00000	2.36(aM)
26 2,2-Dichloropropane	77	4.174	4.174	(0.867)	6247	1.00000	1.27(a)
27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.870)	6668	1.00000	0.99(a)
28 Chloroform	83	4.571	4.571	(0.949)	10748	1.00000	0.96(a)
29 Bromochloromethane	128	4.474	4.474	(0.929)	4161	1.00000	1.10(a)
\$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	5853	1.00000	0.71(a)
31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	7815	1.00000	0.92(a)
32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	7674	1.00000	1.04(a)
33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	8428	1.00000	0.97(a)



34	Carbon Tetrachloride	117	4.905	4.905 (0.883)	5676	1.00000	0.84(a)
\$ 35	1,2-Dichloroethane-d4	65	5.096	5.096 (1.058)	6027	1.00000	0.30(a)



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 36 1,4-Difluorobenzene	114		5.554	5.554	(1.000)		1002093	50.0000	
37 Benzene	78		5.137	5.137	(0.925)		21926	1.00000	0.90(a)
38 Trichloroethene	130		5.790	5.790	(1.043)		7055	1.00000	1.00(a)
39 Bromodichloromethane	83		6.277	6.277	(1.130)		6686	1.00000	0.88(a)
42 1,2-Dichloropropane	63		6.011	6.011	(1.082)		6571	1.00000	1.01(a)
44 Dibromomethane	93		6.120	6.120	(1.102)		4245	1.00000	1.03(a)
45 4-Methyl-2-Pentanone	43		6.858	6.858	(0.838)		12749	2.00000	1.87(a)
46 cis-1,3-Dichloropropene	75		6.697	6.697	(1.206)		6985	1.00000	2.57(a)
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		934282	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		18686	1.00000	0.88(a)
50 Toluene	91		6.982	6.982	(0.853)		24364	1.00000	0.96(a)
51 trans-1,3-Dichloropropene	75		7.199	7.199	(1.296)		5962	1.00000	2.69(aM)
52 2-Hexanone	43		7.597	7.597	(0.928)		10155	2.00000	2.14(a)
53 1,1,2-Trichloroethane	83		7.357	7.357	(0.899)		6320	1.00000	1.19(a)
54 1,3-Dichloropropane	76		7.499	7.499	(0.916)		10678	1.00000	0.99(a)
55 Dibromochloromethane	129		7.694	7.694	(0.940)		4999	1.00000	0.79(a)
56 Tetrachloroethene	164		7.458	7.458	(0.911)		6715	1.00000	1.08(a)
57 1,2-Dibromoethane	107		7.784	7.784	(0.951)		6817	1.00000	1.04(a)
58 1-Chlorohexane	55		8.196	8.196	(1.476)		4887	1.00000	0.94(aM)
59 Chlorobenzene	112		8.211	8.211	(1.003)		19148	1.00000	1.05(a)
60 1,1,1,2-Tetrachloroethane	131		8.286	8.286	(1.012)		5664	1.00000	0.91(a)
61 Ethylbenzene	106		8.305	8.305	(1.015)		7997	1.00000	0.95(a)
62 m,p-Xylenes	106		8.406	8.406	(1.027)		17600	2.00000	1.76(a)
63 o-Xylene	106		8.747	8.747	(1.069)		8615	1.00000	0.87(a)
64 Styrene	104		8.762	8.762	(1.071)		12462	1.00000	0.79(a)
66 Bromoform	173		8.924	8.924	(1.090)		3596	1.00000	0.85(Ta)
67 Isopropylbenzene	105		9.062	9.062	(1.107)		21174	1.00000	0.89(a)
68 1,1,2,2-Tetrachloroethane	83		9.329	9.329	(0.917)		9671	1.00000	1.08(a)
\$ 69 4-Bromofluorobenzene	95		9.197	9.197	(1.124)		8608	1.00000	0.14(a)
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		472015	50.0000	
71 1,2,3-Trichloropropane	75		9.362	9.362	(0.920)		7255	1.00000	0.92(a)
73 n-Propylbenzene	91		9.415	9.415	(0.926)		21667	1.00000	0.87(a)
74 Bromobenzene	156		9.321	9.321	(0.916)		8241	1.00000	1.03(a)
75 1,3,5-Trimethylbenzene	105		9.565	9.565	(0.940)		16352	1.00000	0.96(a)
76 2-Chlorotoluene	91		9.482	9.482	(0.932)		17404	1.00000	0.99(a)
77 4-Chlorotoluene	91		9.580	9.580	(0.942)		18186	1.00000	0.94(a)
78 tert-Butylbenzene	119		9.838	9.838	(0.967)		15445	1.00000	0.92(a)
79 1,2,4-Trimethylbenzene	105		9.880	9.880	(0.971)		18732	1.00000	1.05(a)
81 sec-Butylbenzene	105		10.022	10.022	(0.985)		19975	1.00000	0.94(a)
82 p-Isopropyltoluene	119		10.146	10.146	(0.997)		16778	1.00000	0.94(a)
83 1,3-Dichlorobenzene	146		10.116	10.116	(0.994)		13868	1.00000	1.02(a)
84 1,4-Dichlorobenzene	146		10.191	10.191	(1.002)		16169	1.00000	1.12(a)
88 1,2-Dichlorobenzene	146		10.506	10.506	(1.033)		14921	1.00000	1.10(a)
89 1,2-Dibromo-3-Chloropropane	155		11.165	11.165	(1.098)		1239	1.00000	0.95(aM)
90 1,2,4-Trichlorobenzene	180		11.859	11.859	(1.166)		9686	1.00000	1.03(a)
93 1,2,3-Trichlorobenzene	180		12.271	12.271	(1.206)		9603	1.00000	1.05(a)
M 94 1,2-Dichloroethylene (total)	96						11675	2.00000	(a)
141 Cyclohexane	56		4.796	4.796	(0.996)		7781	1.00000	1.14(aM)
138 Freon TF	101		2.330	2.330	(0.484)		3752	1.00000	0.82(a)
140 1,3-Butadiene	54		1.400	1.400	(0.291)		5632	1.00000	0.87(a)
146 Methyl Acetate	43		2.712	2.712	(0.563)		6421	1.00000	1.12(aM)
148 Tert-Butyl alcohol	59		2.967	2.967	(0.616)		16016	20.0000	20.67(aM)



72 trans-1,4-Dichloro-2-butene	53	9.381	9.381 (1.146)	1083	1.00000	1.00
12 Isobutyl Alcohol	43	5.291	5.291 (1.099)	18069	20.0000	20.46(M)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D Page 3
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
13 Acetonitrile	39	2.667	2.667	(0.554)	7477	10.0000	10.16
40 Methyl Methacrylate	41	6.161	6.161	(1.279)	5203	1.00000	0.89(a)
4 Propionitrile	54	4.343	4.343	(0.902)	10588	10.0000	10.78(aM)
136 n-Hexane	57	3.338	3.338	(0.693)	4787	1.00000	0.97(a)
131 Methyl Acrylate	55	4.365	4.365	(0.907)	7188	1.00000	1.00(aM)
200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	2841	1.00000	4.92(aM)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	20474	1.00000	1.12(a)
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	29317	1.00000	1.27(a)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	6428	1.00000	4.20(a)
156 Diisopropyl ether	45	3.623	3.623	(0.752)	18372	1.00000	0.96(Ta)
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	29449	20.0000	19.76
150 Allyl alcohol	57	3.338	3.338	(0.693)	4787	20.0000	20.21
86 Benzyl Chloride	91	10.311	10.311	(1.260)	5481	1.00000	4.38(a)
162 Butyl acrylate	55	8.736	8.736	(1.067)	10827	1.00000	0.97(a)
139 Diethyl ether	59	2.142	2.142	(0.445)	3957	1.00000	0.86(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	4963	1.00000	2.84(aM)
134 Cyclohexanone	55	9.156	9.156	(0.900)	6822	20.0000	23.31(a)
130 Ethyl Acetate	43	4.272	4.272	(0.887)	6476	1.00000	1.06(aMH)
189 n-Butyl acetate	43	7.713	7.713	(0.942)	10025	1.00000	0.94(aM)
182 Epichlorohydrin	57	6.656	6.656	(1.198)	230	4.00000	12.04(M)

QC Flag Legend

- T - Target compound detected outside RT window.
- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230606.b\U060607.D

Date: 06-JUN-2023 13:28

Client ID: WSTD001

Sample Info: WSTD001;WSTD001;1;3;

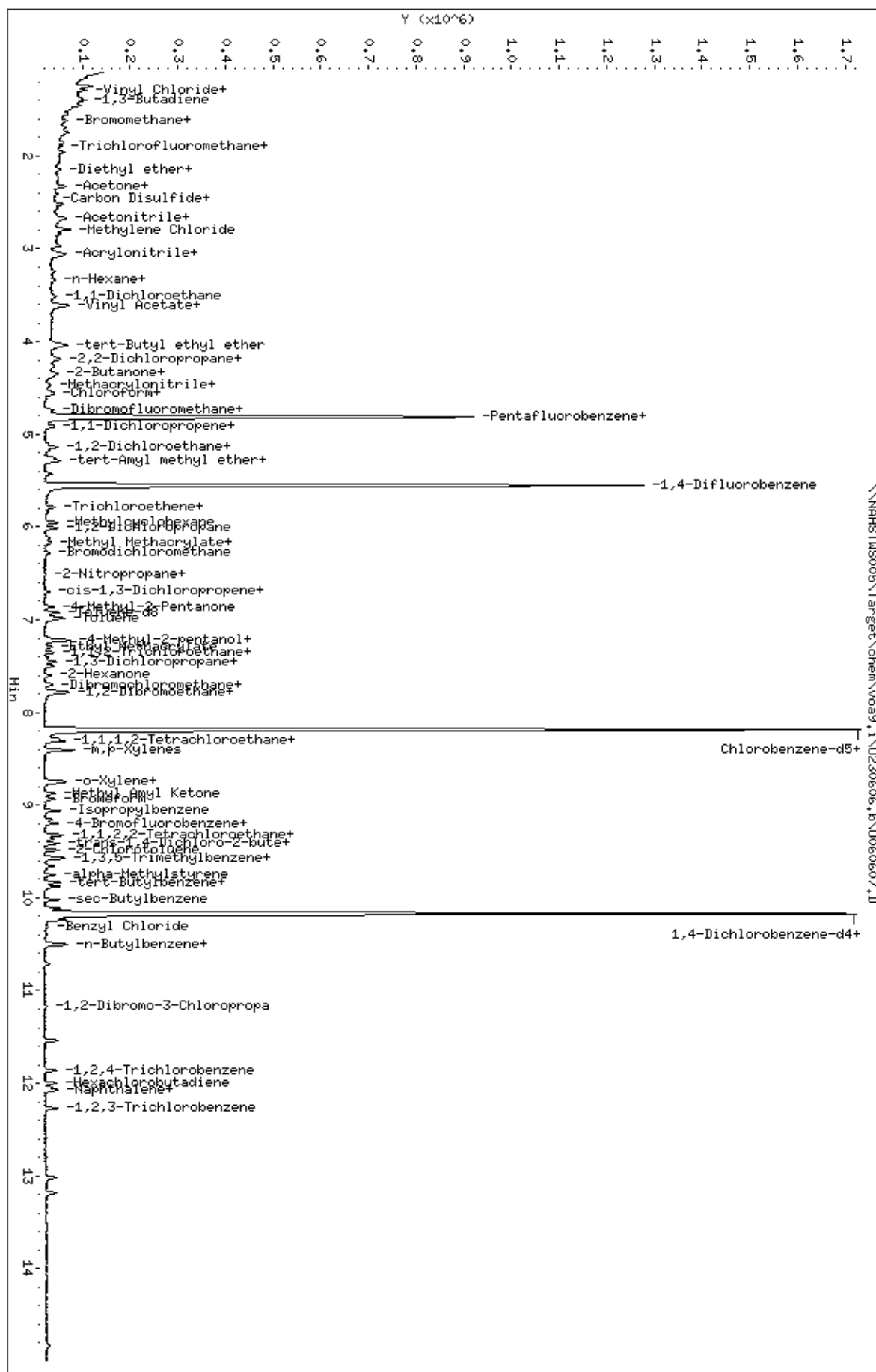
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Instrument: W049.i

Operator: PC

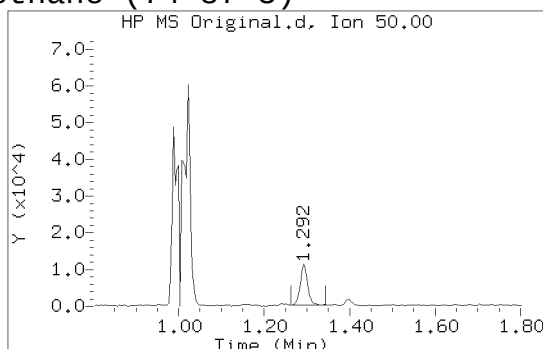
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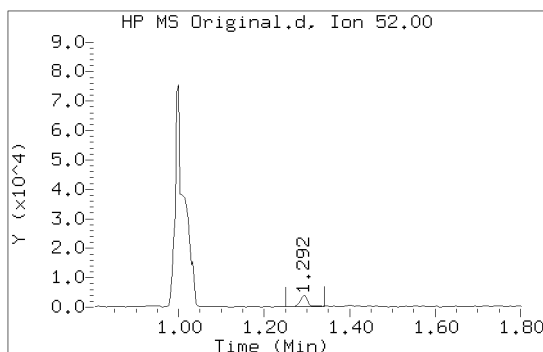
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InstruID : VOA9.i
LabSampID : VSTD001

Chloromethane (74-87-3)**BEFORE**

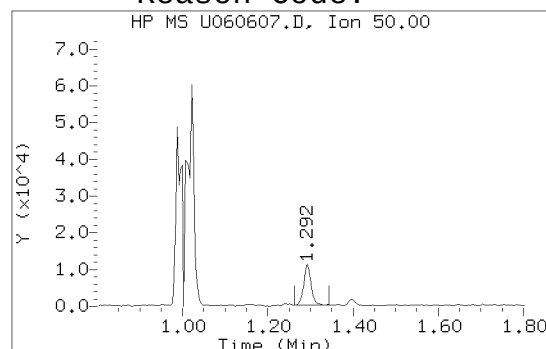
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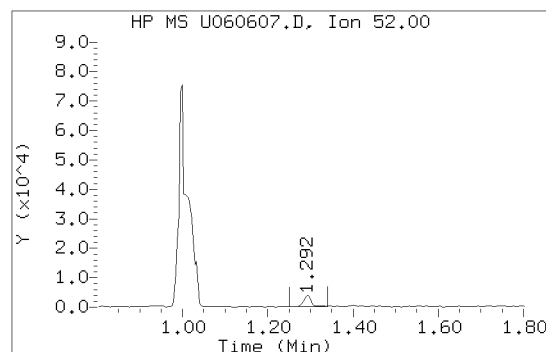
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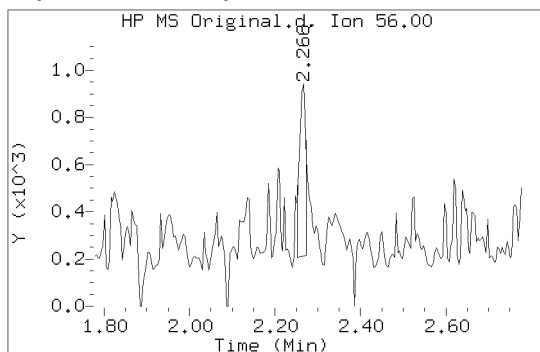
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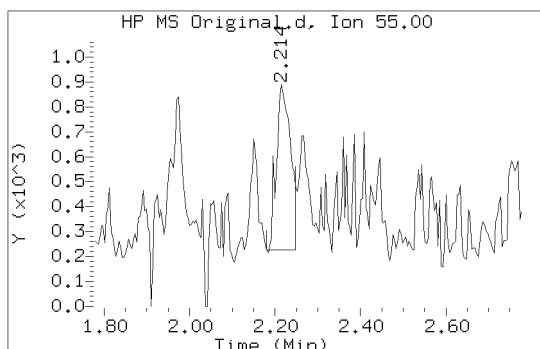
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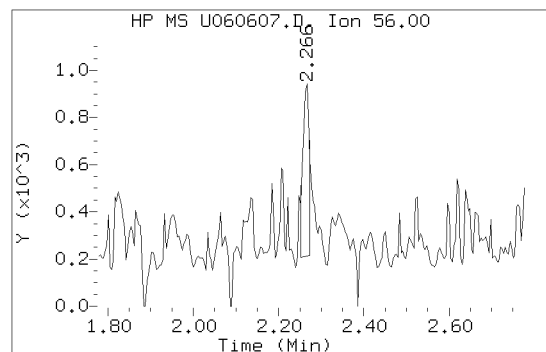
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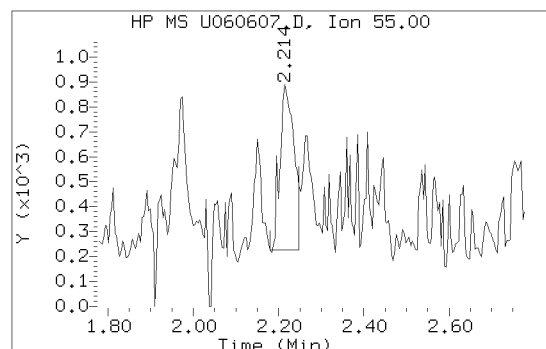
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**AFTER**

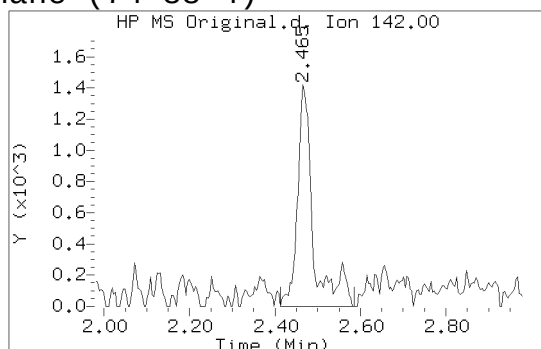
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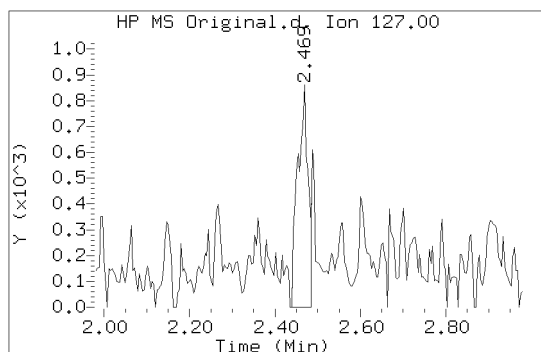
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InstruID : VOA9.i
LabSampID : VSTD001

Iodomethane (74-88-4)**BEFORE**

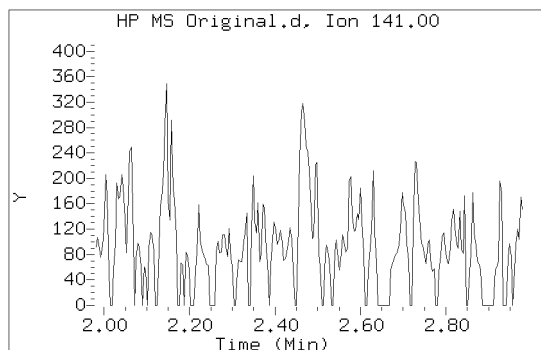
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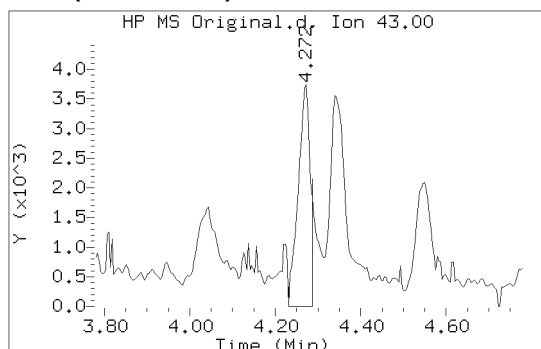
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**BEFORE**

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**2-Butanone (78-93-3)****BEFORE**

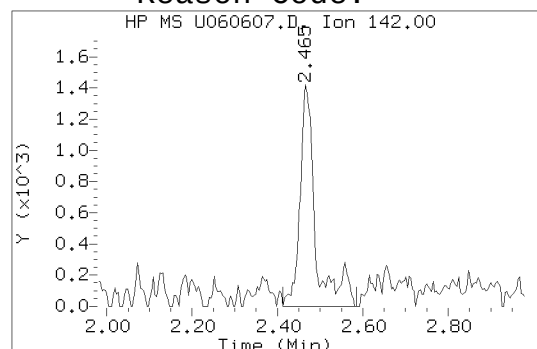
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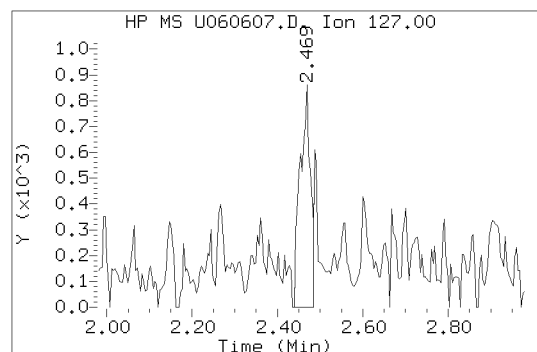
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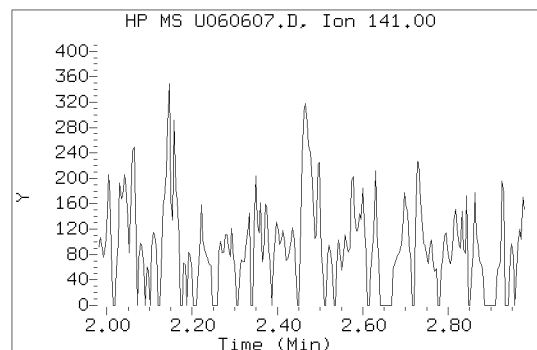
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**AFTER**

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**AFTER**

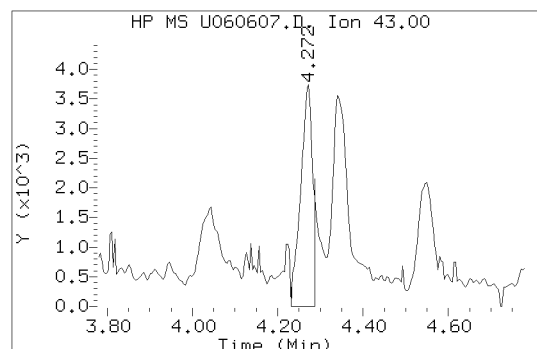
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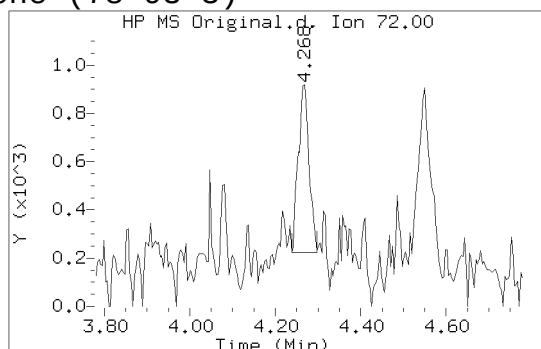
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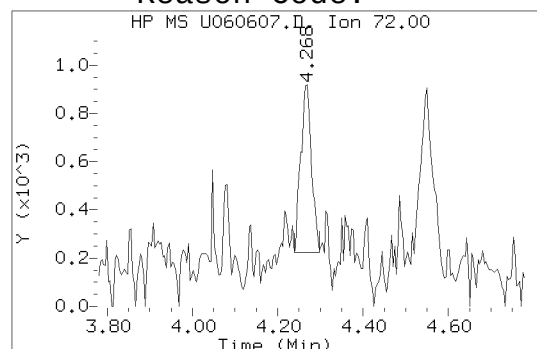
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InstruID : VOA9.i
LabSampID : VSTD001

2-Butanone (78-93-3)**BEFORE**

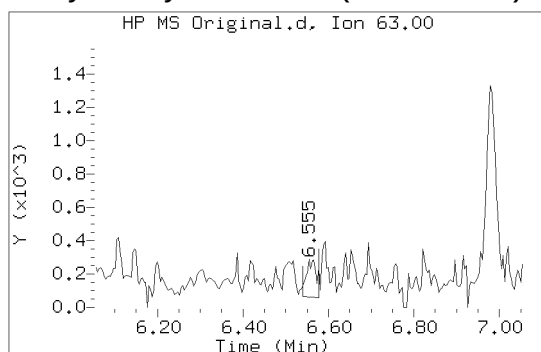
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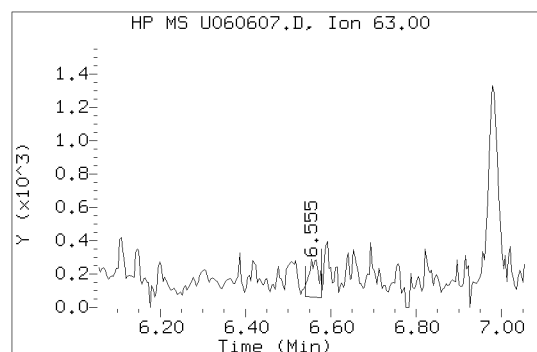
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Reason Code:**2-Chloroethylvinyl ether (110-75-8)****BEFORE**

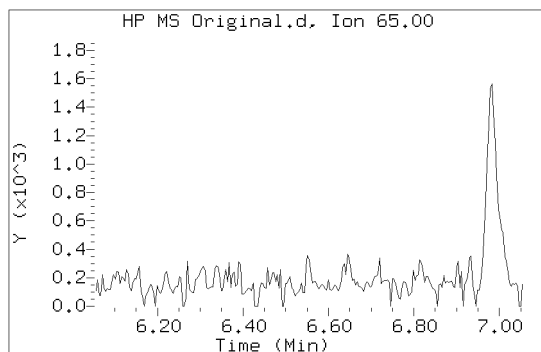
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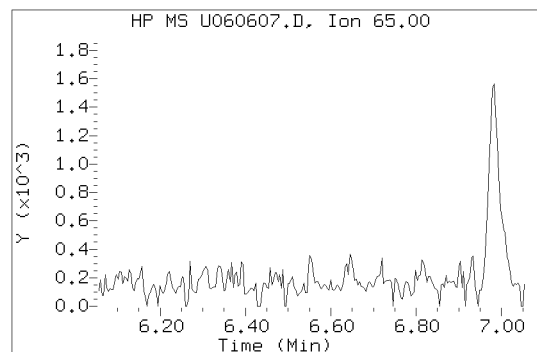
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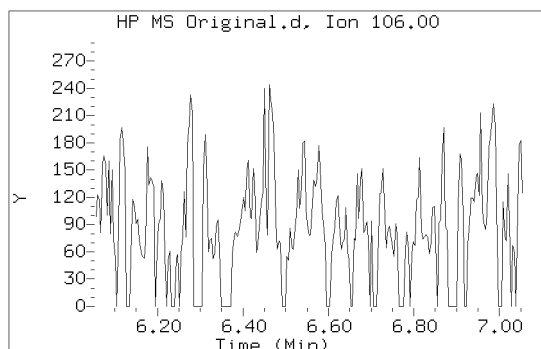
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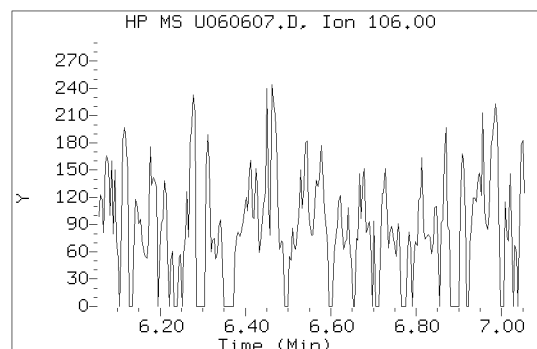
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**AFTER**

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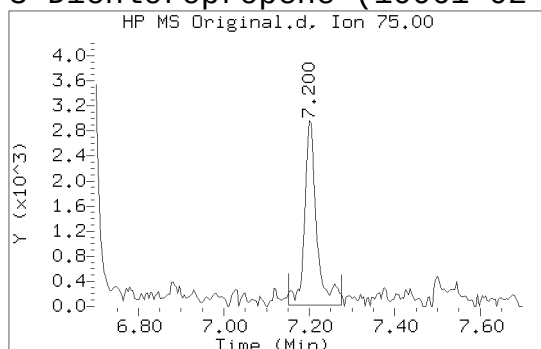


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 Inj Date : 06-JUN-2023 13:28
 InstruID : VOA9.i
 LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

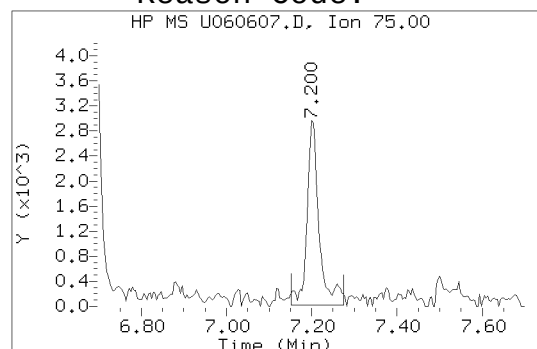
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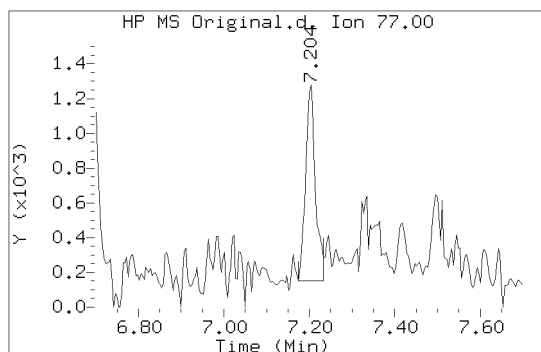
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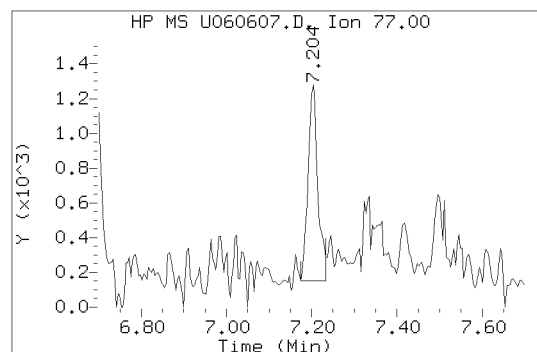
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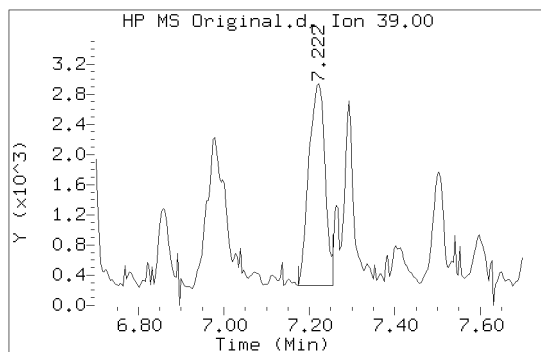
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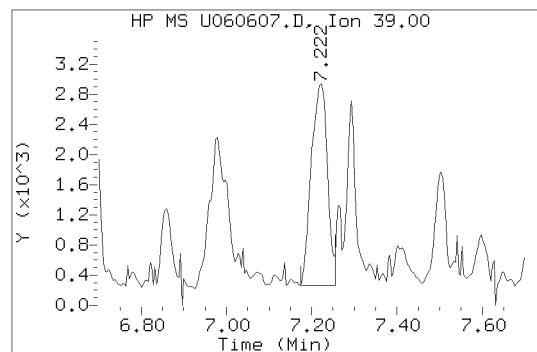
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AFTER

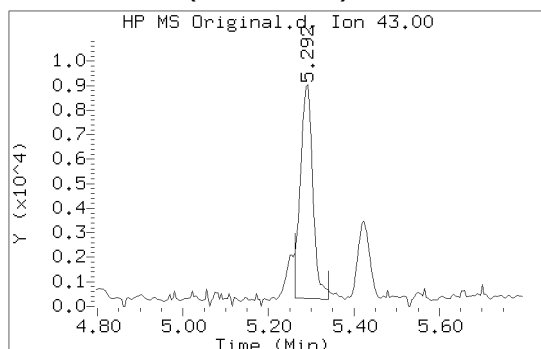
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linh
pham



Isobutyl Alcohol (78-83-1)

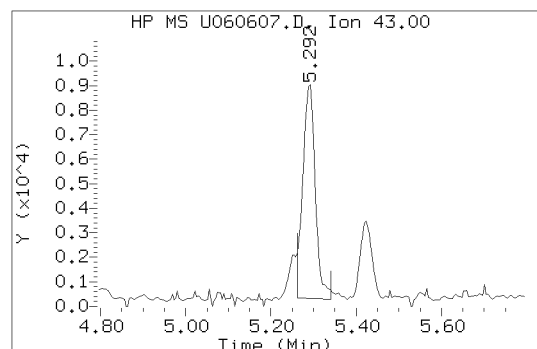
BEFORE

MASS
43
AREA
18069
HEIGHT
8714
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
18069
HEIGHT
8714
13-Jun-2023
13:00
linh
pham



Reason Code:

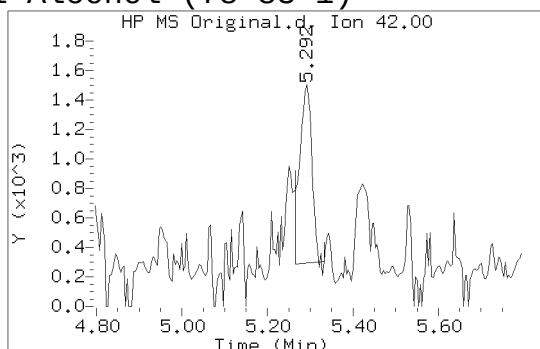


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Isobutyl Alcohol (78-83-1)

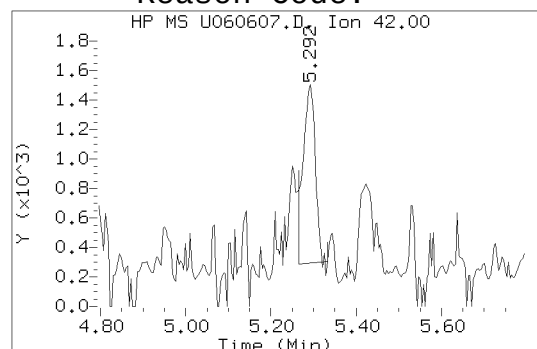
BEFORE

MASS
42
AREA
2425
HEIGHT
1210
08-Jun-2023
14:56
linh



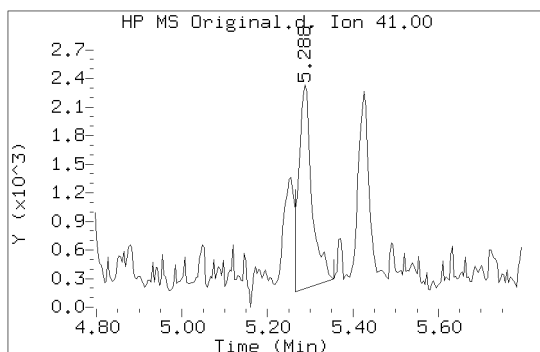
AFTER

MASS
42
AREA
2425
HEIGHT
1210
13-Jun-2023
13:00
linh



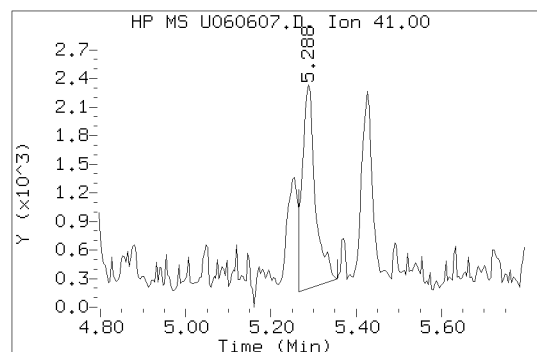
BEFORE

MASS
41
AREA
4613
HEIGHT
2138
08-Jun-2023
14:56
linh
pham



AFTER

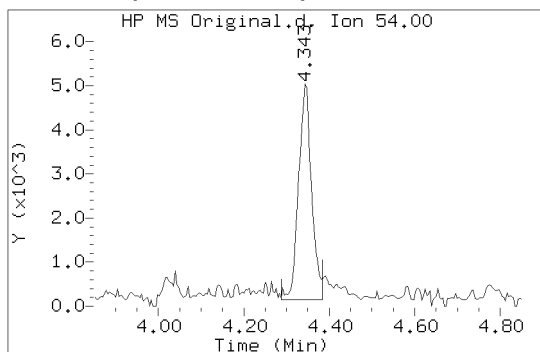
MASS
41
AREA
4613
HEIGHT
2138
13-Jun-2023
13:00
linh
pham



Propionitrile (107-12-0)

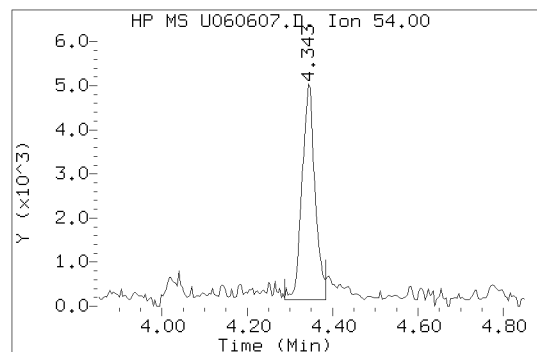
BEFORE

MASS
54
AREA
10588
HEIGHT
4897
08-Jun-2023
14:56
linh
pham



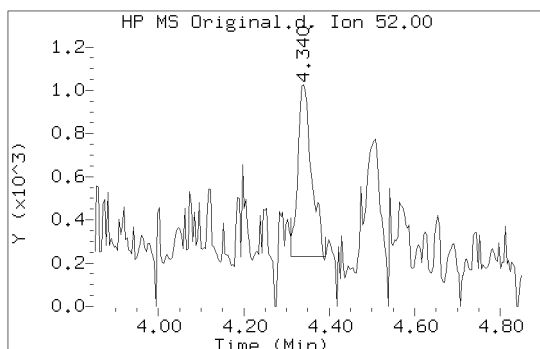
AFTER

MASS
54
AREA
10588
HEIGHT
4897
13-Jun-2023
13:00
linh
pham



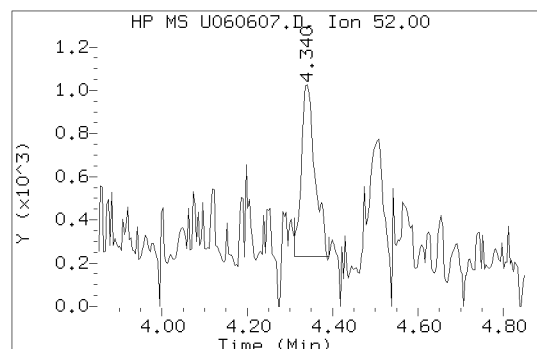
BEFORE

MASS
52
AREA
1789
HEIGHT
794
08-Jun-2023
14:56
linh
pham



AFTER

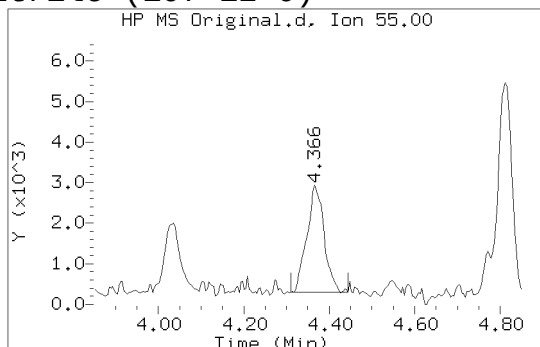
MASS
52
AREA
1789
HEIGHT
794
13-Jun-2023
13:00
linh
pham



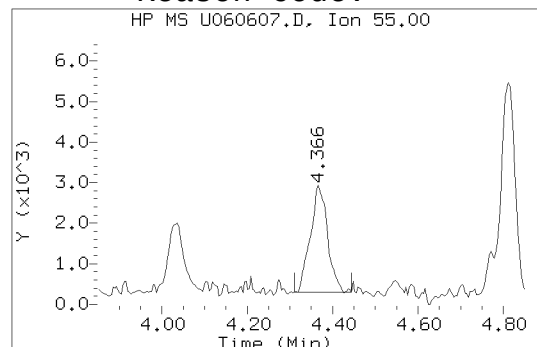
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060607.D
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)**BEFORE**

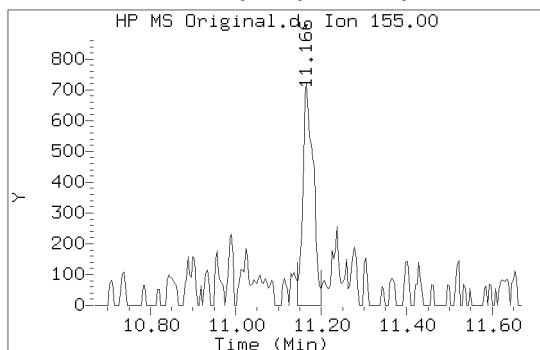
MASS
55
AREA
7500
HEIGHT
2642
08-Jun-2023
14:56
linh
pham

**AFTER**

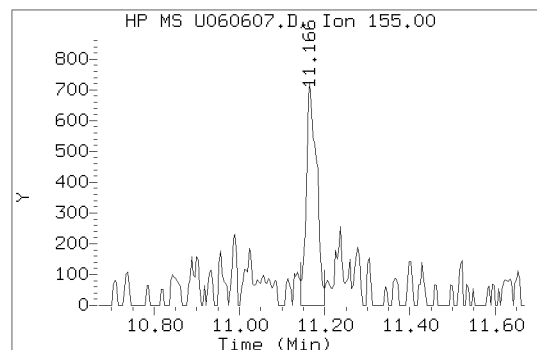
MASS
55
AREA
7500
HEIGHT
2642
13-Jun-2023
13:00
linh
pham

Reason Code:**1,2-Dibromo-3-Chloropropane (96-12-8)****BEFORE**

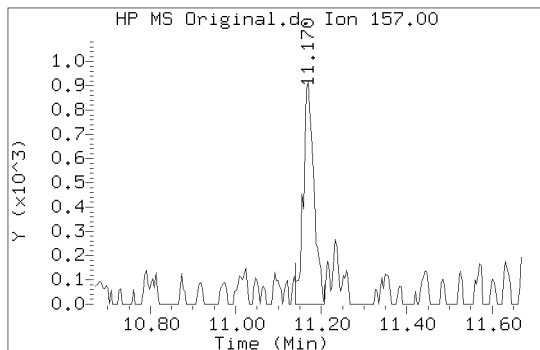
MASS
155
AREA
1239
HEIGHT
719
08-Jun-2023
14:56
linh
pham

**AFTER**

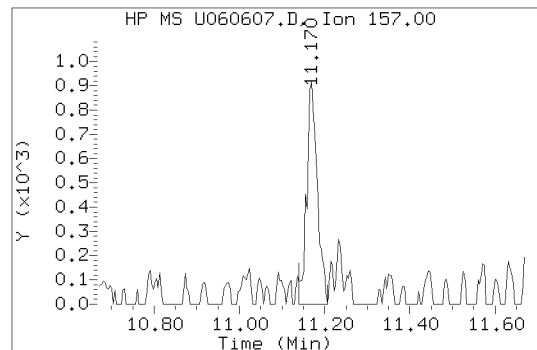
MASS
155
AREA
1239
HEIGHT
719
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

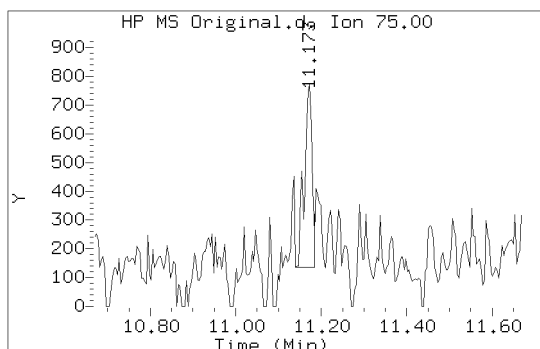
MASS
157
AREA
1601
HEIGHT
916
08-Jun-2023
14:56
linh
pham

**AFTER**

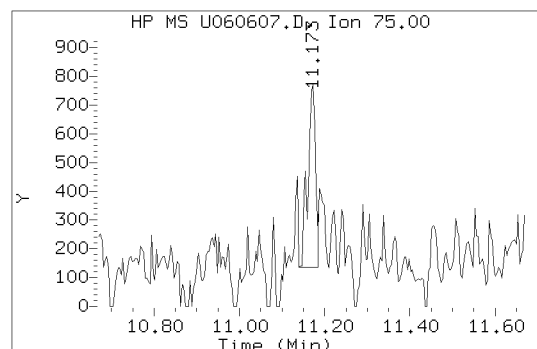
MASS
157
AREA
1601
HEIGHT
916
13-Jun-2023
13:00
linh
pham

**BEFORE**

MASS
75
AREA
809
HEIGHT
634
08-Jun-2023
14:56
linh
pham

**AFTER**

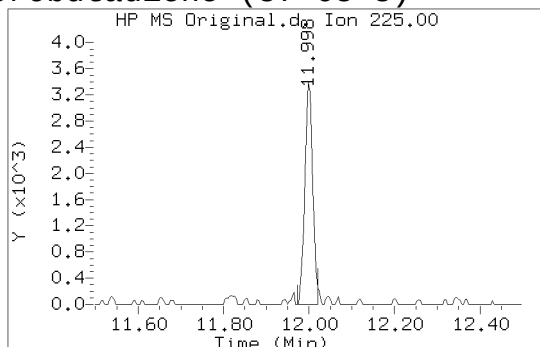
MASS
75
AREA
809
HEIGHT
634
13-Jun-2023
13:00
linh
pham



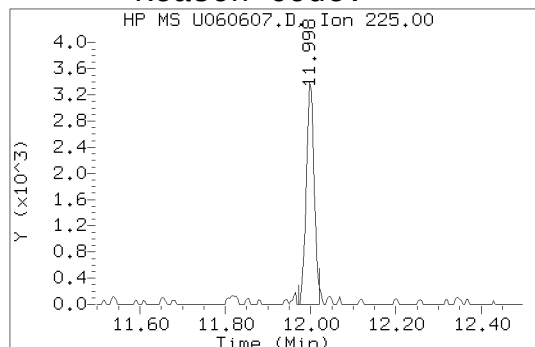
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060607.D
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)**BEFORE**

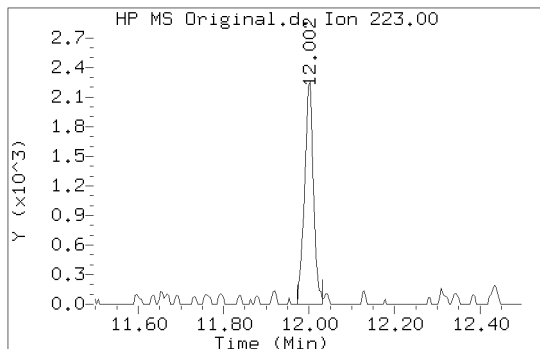
MASS
225
AREA
4470
HEIGHT
3386
08-Jun-2023
14:56
linh

**AFTER**

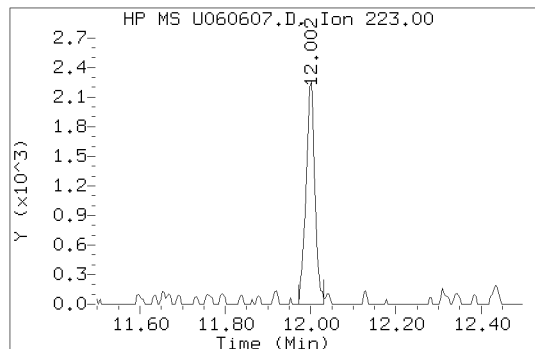
MASS
225
AREA
4470
HEIGHT
3386
13-Jun-2023
13:00
linh

Reason Code:**BEFORE**

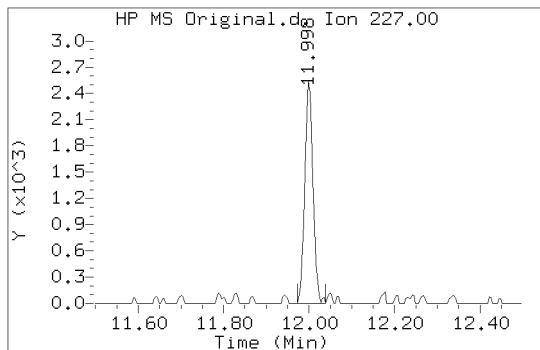
MASS
223
AREA
3352
HEIGHT
2254
08-Jun-2023
14:56
linh
pham

**AFTER**

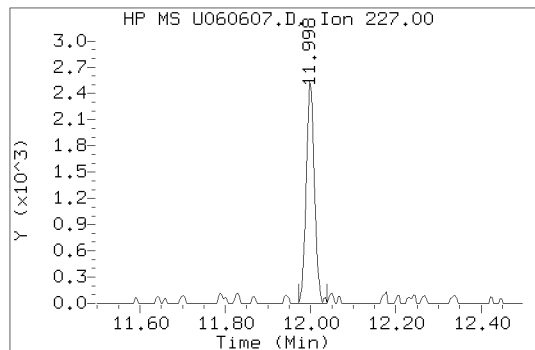
MASS
223
AREA
3352
HEIGHT
2254
13-Jun-2023
13:00
linh
pham

**BEFORE**

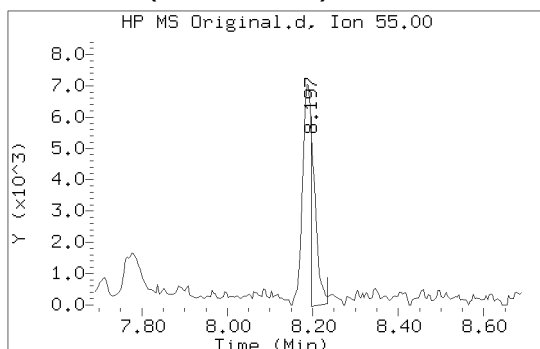
MASS
227
AREA
3477
HEIGHT
2534
08-Jun-2023
14:56
linh
pham

**AFTER**

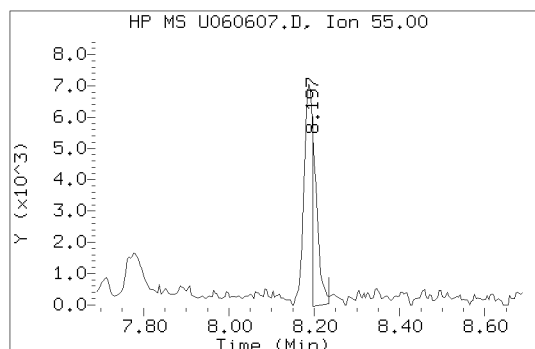
MASS
227
AREA
3477
HEIGHT
2534
13-Jun-2023
13:00
linh
pham

**1-Chlorohexane (544-10-5)****BEFORE**

MASS
55
AREA
4887
HEIGHT
5444
08-Jun-2023
14:56
linh
pham

**AFTER**

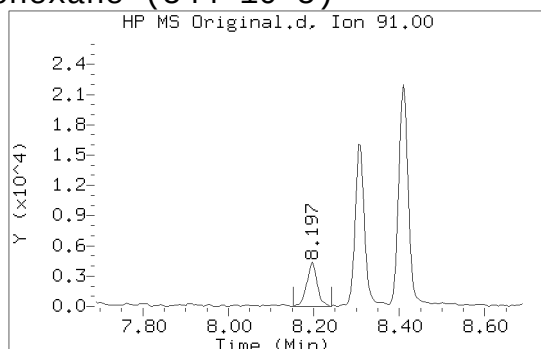
MASS
55
AREA
4887
HEIGHT
5444
13-Jun-2023
13:00
linh
pham

Reason Code:

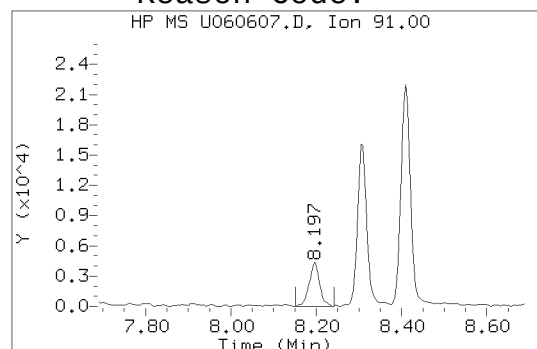
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

1-Chlorohexane (544-10-5)**BEFORE**

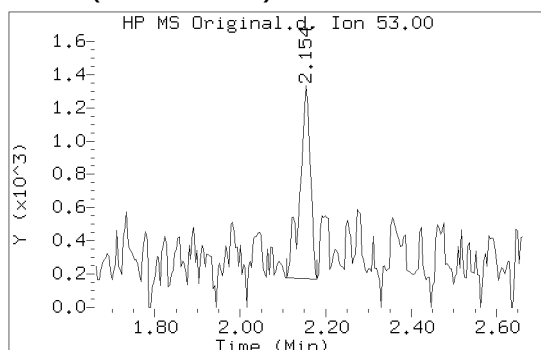
MASS
91
AREA
7655
HEIGHT
4415
08-Jun-2023
14:56
linh
pham

**AFTER**

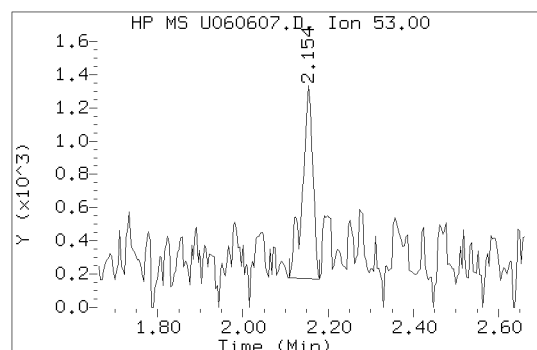
MASS
91
AREA
7655
HEIGHT
4415
13-Jun-2023
13:00
linh
pham

Reason Code:**Chloroprene (126-99-8)****BEFORE**

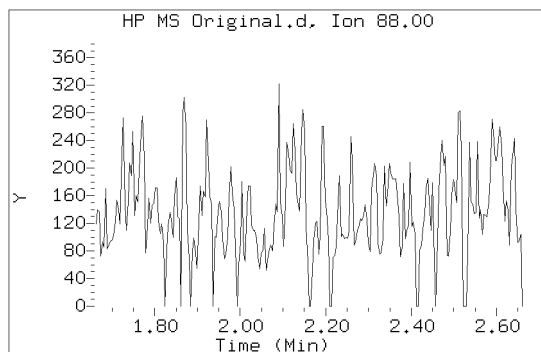
MASS
53
AREA
2027
HEIGHT
1160
08-Jun-2023
14:56
linh
pham

**AFTER**

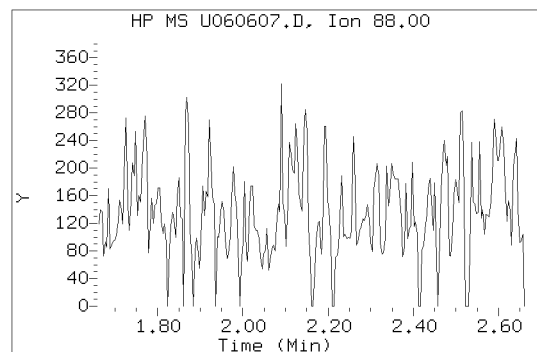
MASS
53
AREA
2027
HEIGHT
1160
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

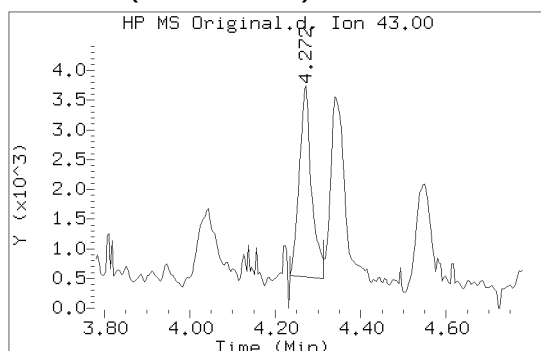
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

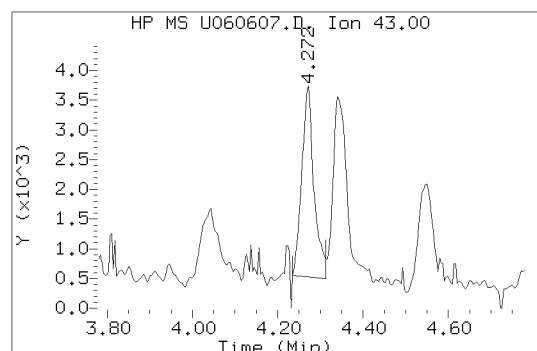
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**Ethyl Acetate (141-78-6)****BEFORE**

MASS
43
AREA
6476
HEIGHT
3212
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
43
AREA
6476
HEIGHT
3212
13-Jun-2023
13:00
linh
pham

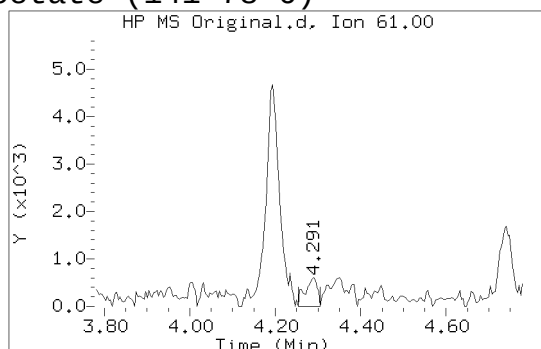
Reason Code:

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

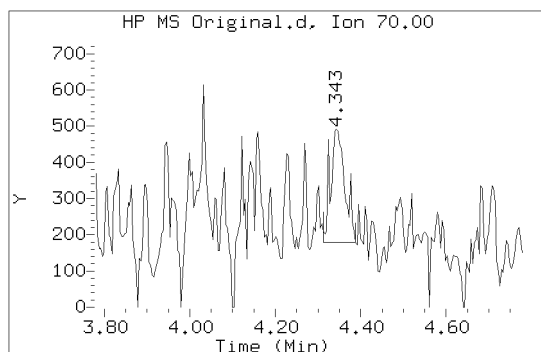
BEFORE

MASS
61
AREA
1204
HEIGHT
613
08-Jun-2023
14:56
linh



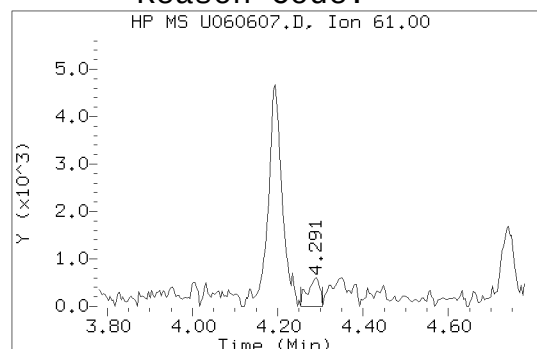
BEFORE

MASS
70
AREA
720
HEIGHT
311
08-Jun-2023
14:56
linh
pham



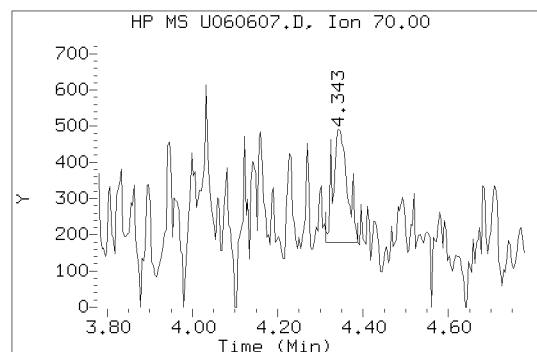
AFTER

MASS
61
AREA
1204
HEIGHT
613
13-Jun-2023
13:00
linh



AFTER

MASS
70
AREA
720
HEIGHT
311
13-Jun-2023
13:00
linh
pham

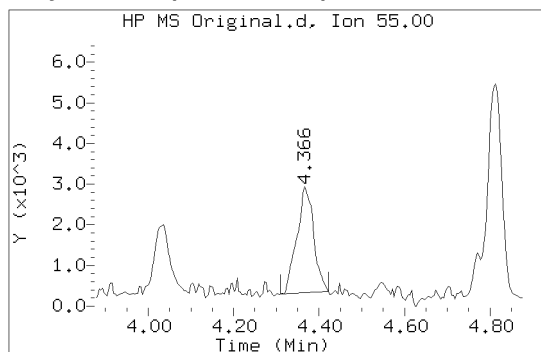


Reason Code:

Methyl Acrylate (96-33-3)

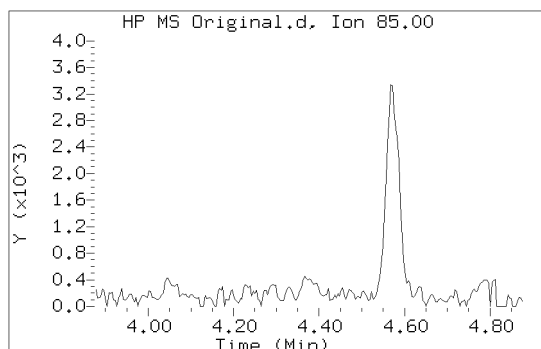
BEFORE

MASS
55
AREA
7188
HEIGHT
2604
08-Jun-2023
14:56
linh
pham



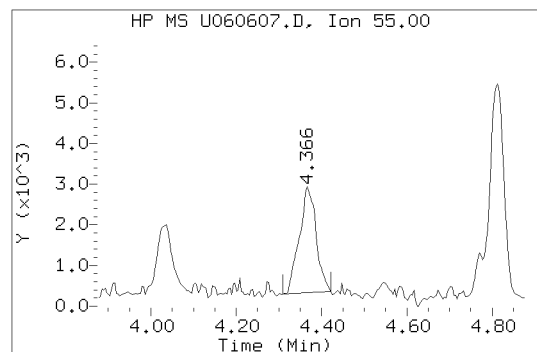
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



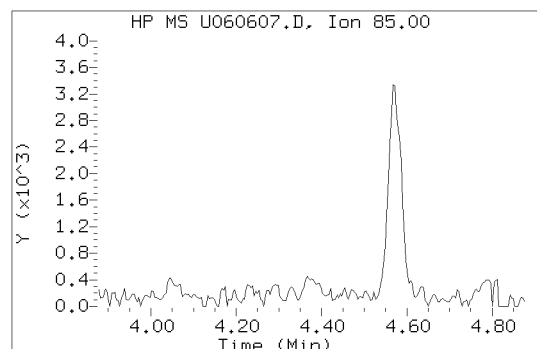
AFTER

MASS
55
AREA
7188
HEIGHT
2604
13-Jun-2023
13:00
linh
pham



AFTER

MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



Reason Code:

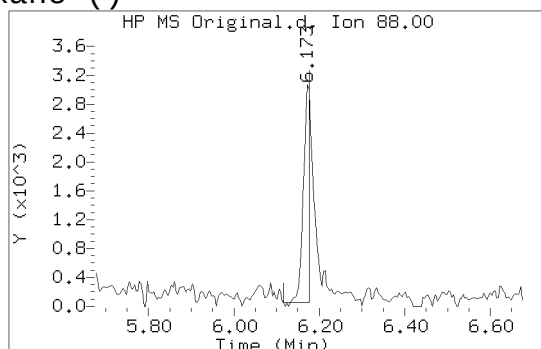


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
 Inj Date : 06-JUN-2023 13:28
 InstruID : VOA9.i
 LabSampID : VSTD001

1,4-Dioxane ()

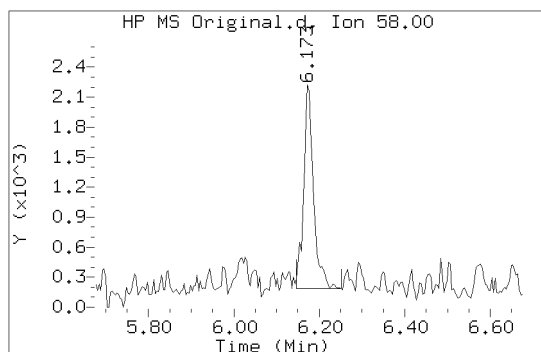
BEFORE

MASS
88
AREA
3065
HEIGHT
3017
08-Jun-2023
14:56
linh



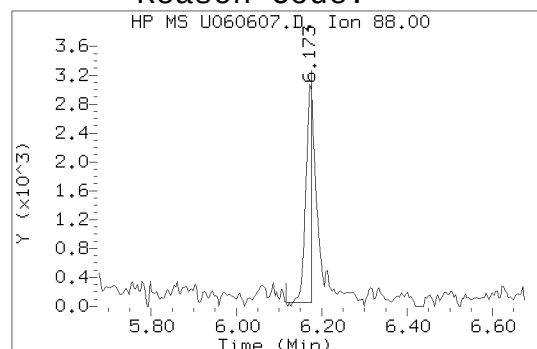
BEFORE

MASS
58
AREA
3335
HEIGHT
2036
08-Jun-2023
14:56
linh
pham



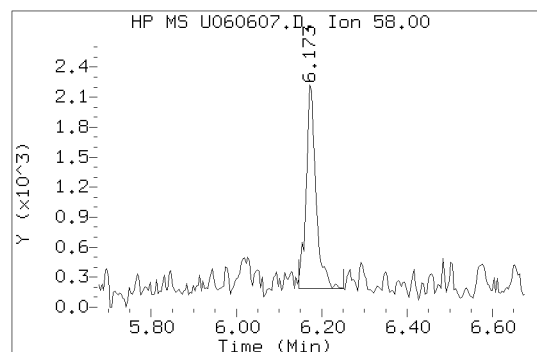
AFTER

MASS
88
AREA
3065
HEIGHT
3017
13-Jun-2023
13:00
linh



AFTER

MASS
58
AREA
3335
HEIGHT
2036
13-Jun-2023
13:00
linh
pham

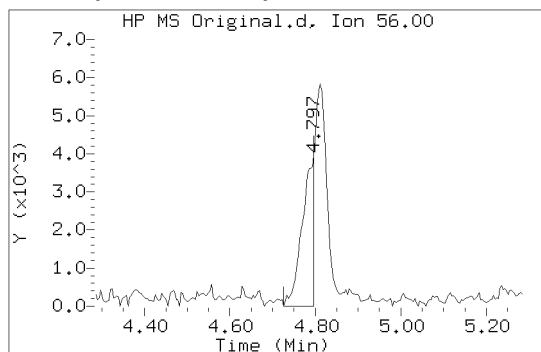


Reason Code:

Cyclohexane (110-82-7)

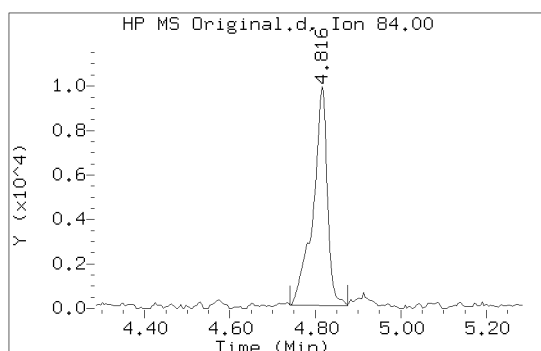
BEFORE

MASS
56
AREA
7781
HEIGHT
3965
08-Jun-2023
14:56
linh
pham



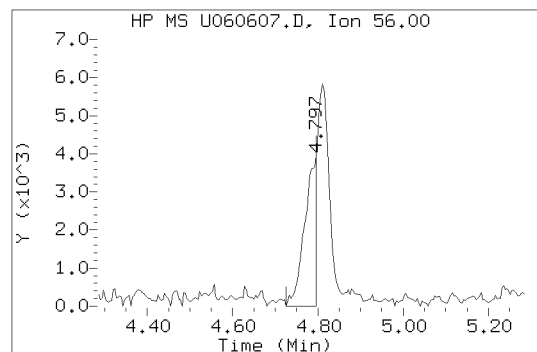
BEFORE

MASS
84
AREA
22992
HEIGHT
9843
08-Jun-2023
14:56
linh
pham



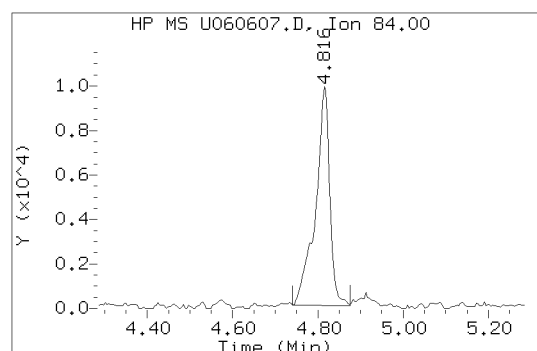
AFTER

MASS
56
AREA
7781
HEIGHT
3965
13-Jun-2023
13:00
linh
pham



AFTER

MASS
84
AREA
22992
HEIGHT
9843
13-Jun-2023
13:00
linh
pham

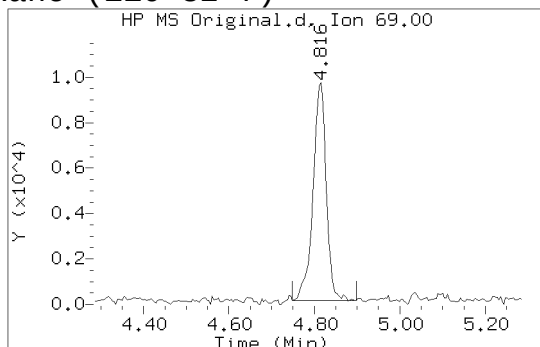


Reason Code:

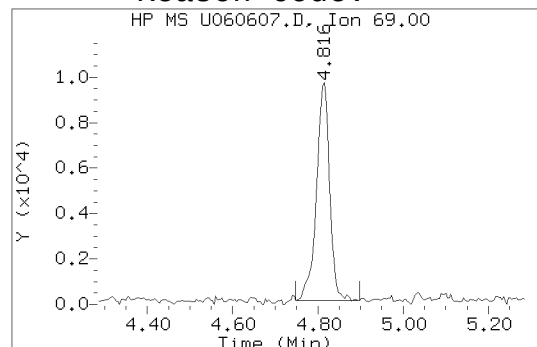
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060607.D
Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Cyclohexane (110-82-7)**BEFORE**

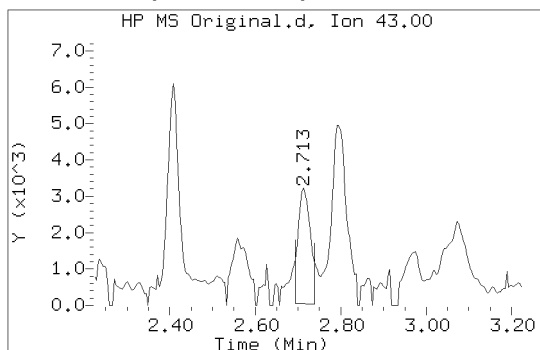
MASS
69
AREA
20740
HEIGHT
9600
08-Jun-2023
14:56
linh
pham

**AFTER**

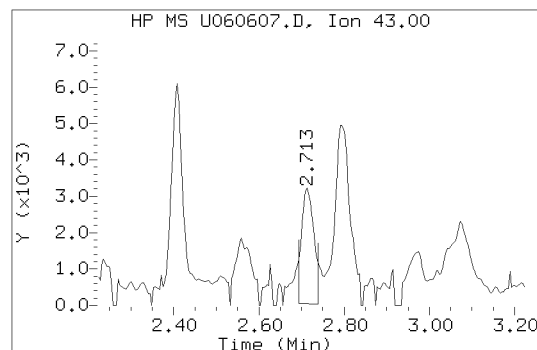
MASS
69
AREA
20740
HEIGHT
9600
13-Jun-2023
13:00
linh
pham

Reason Code:**Methyl Acetate (79-20-9)****BEFORE**

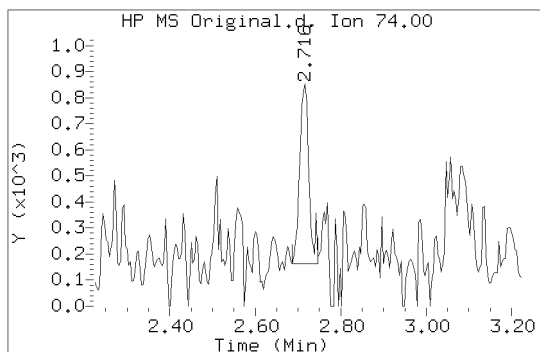
MASS
43
AREA
6421
HEIGHT
3170
08-Jun-2023
14:56
linh
pham

**AFTER**

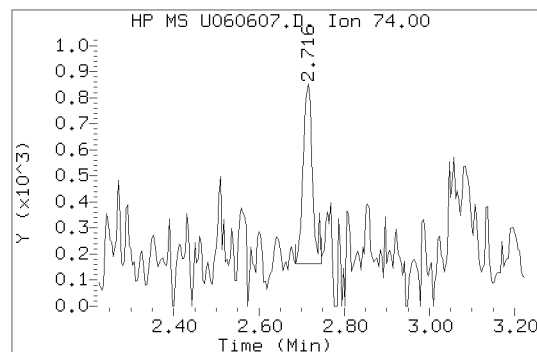
MASS
43
AREA
6421
HEIGHT
3170
13-Jun-2023
13:00
linh
pham

**BEFORE**

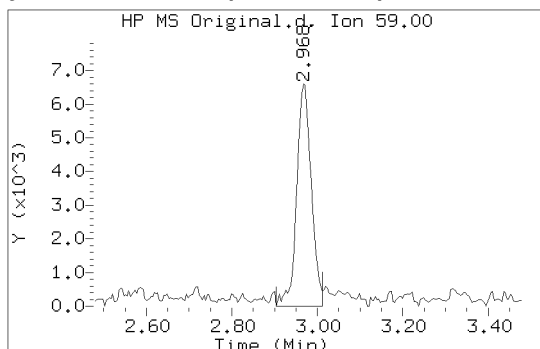
MASS
74
AREA
1042
HEIGHT
689
08-Jun-2023
14:56
linh
pham

**AFTER**

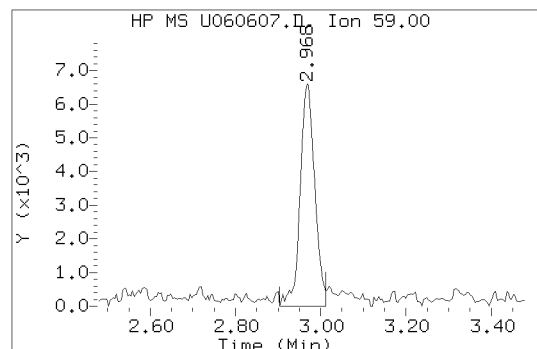
MASS
74
AREA
1042
HEIGHT
689
13-Jun-2023
13:00
linh
pham

**Tert-Butyl alcohol (75-65-0)****BEFORE**

MASS
59
AREA
16016
HEIGHT
6600
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
59
AREA
16016
HEIGHT
6600
13-Jun-2023
13:00
linh
pham

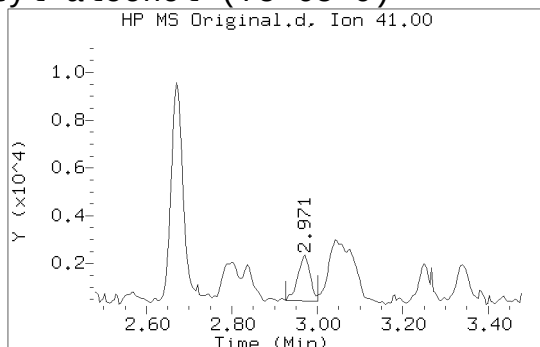
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 Inj Date : 06-JUN-2023 13:28
 InstruID : VOA9.i
 LabSampID : VSTD001

Tert-Butyl alcohol (75-65-0)

BEFORE

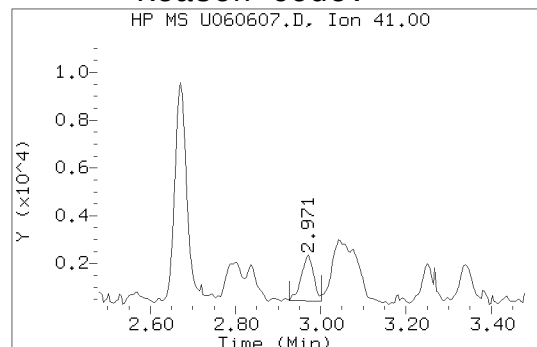
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1899
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
3907
HEIGHT
1899
13-Jun-2023
13:00
linh
pham

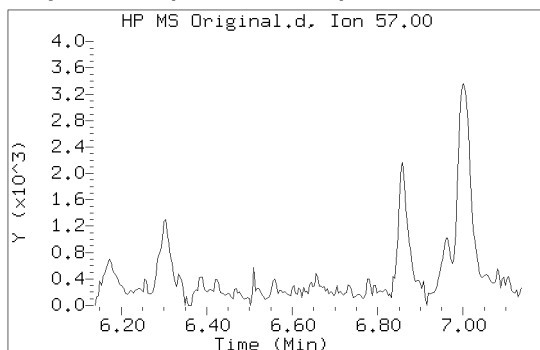
Reason Code:



Epichlorohydrin (106-89-8)

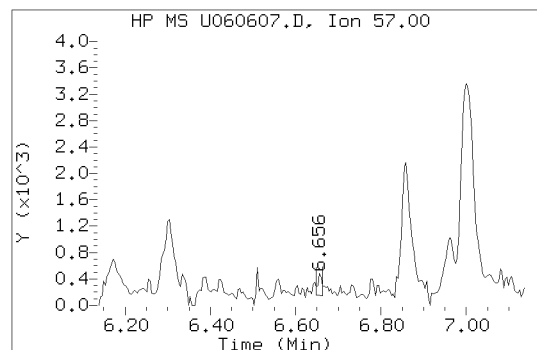
BEFORE

MASS
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HEIGHT
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08-Jun-2023
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linh
pham



AFTER

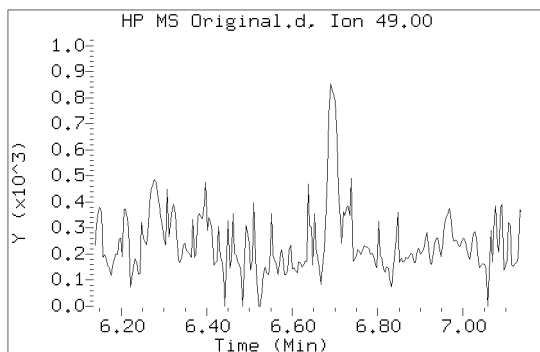
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AREA
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HEIGHT
333
13-Jun-2023
13:00
linh
pham



Reason Code:

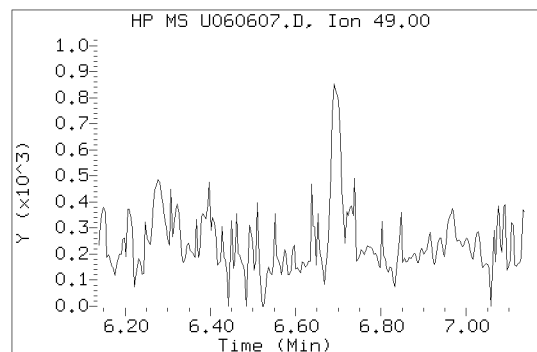
BEFORE

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14:56
linh
pham



AFTER

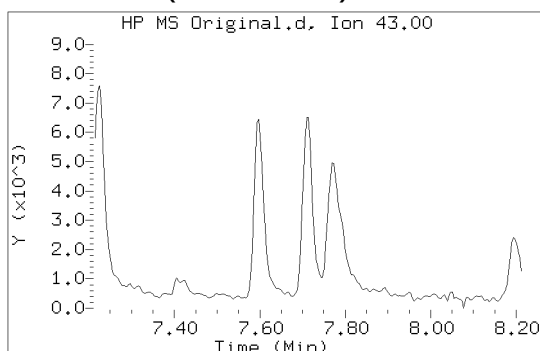
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49
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



n-Butyl acetate (123-86-4)

BEFORE

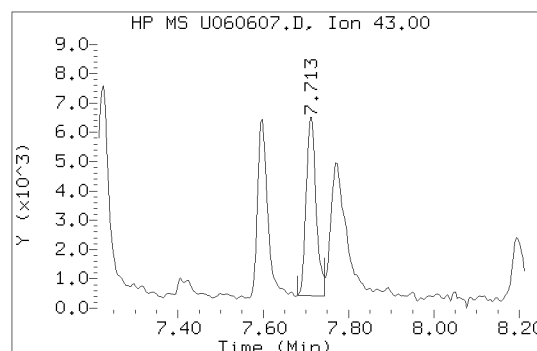
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43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
10025
HEIGHT
6077
13-Jun-2023
13:00
linh
pham

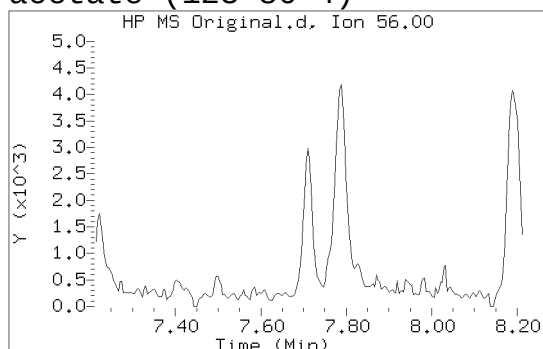
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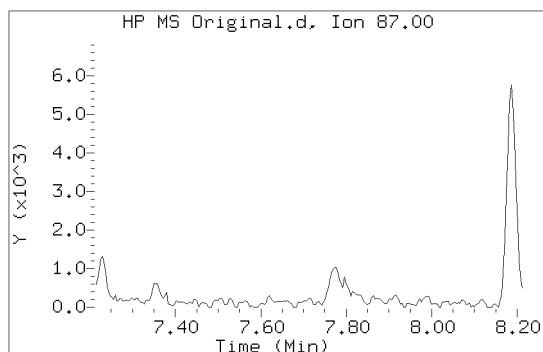
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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)**BEFORE**

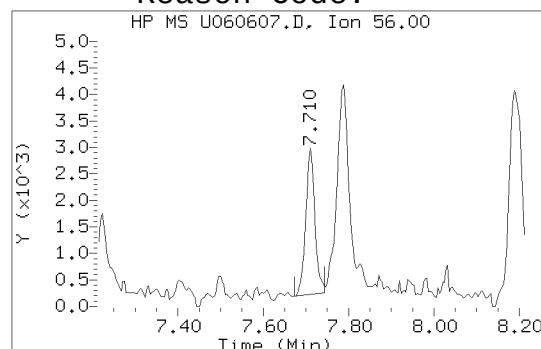
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56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh

**BEFORE**

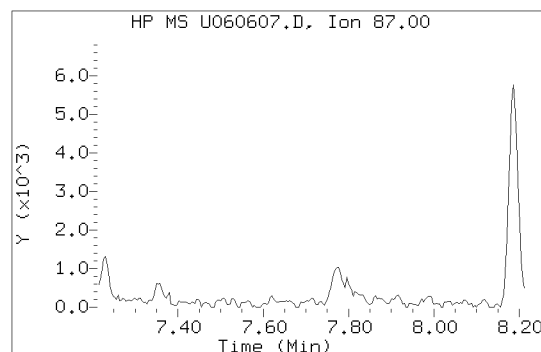
MASS
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AREA
0
HEIGHT
0
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14:56
linh
pham

**AFTER**

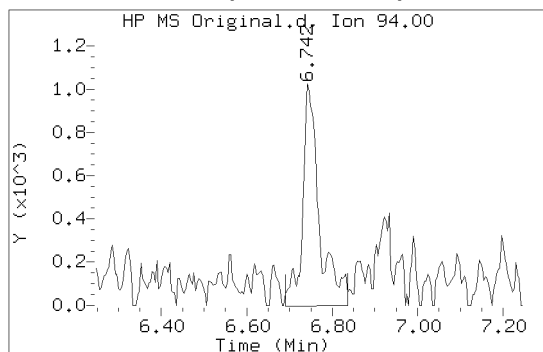
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HEIGHT
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13:00
linh

Reason Code:**AFTER**

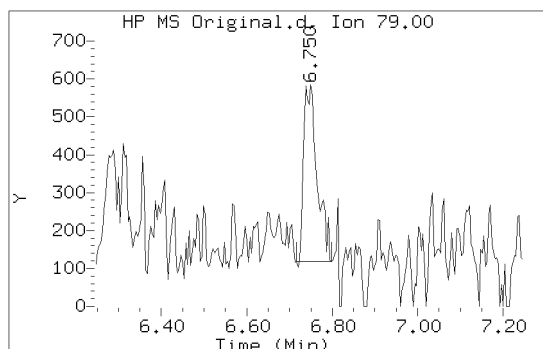
MASS
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AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**Dimethyl Disulfide (624-92-0)****BEFORE**

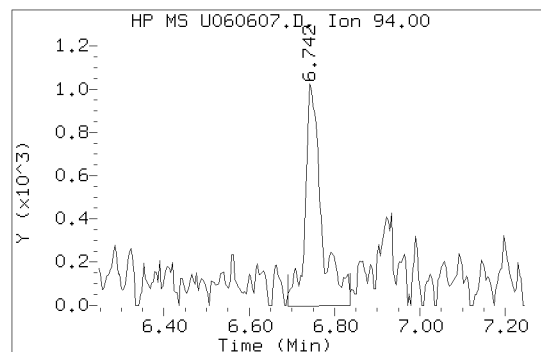
MASS
94
AREA
2841
HEIGHT
1027
08-Jun-2023
14:56
linh
pham

**BEFORE**

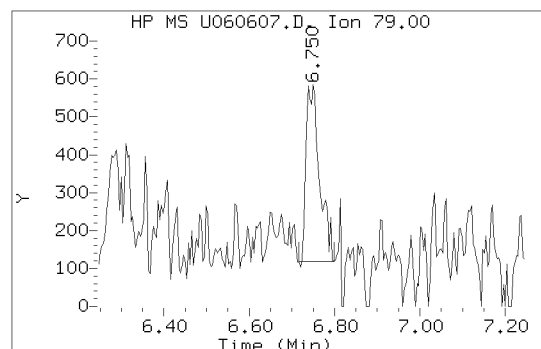
MASS
79
AREA
1040
HEIGHT
467
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
94
AREA
2841
HEIGHT
1027
13-Jun-2023
13:00
linh
pham

Reason Code:**AFTER**

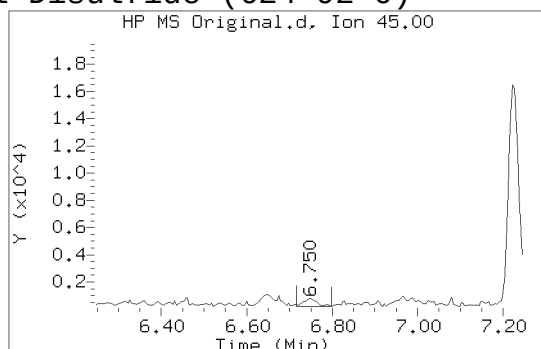
MASS
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AREA
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HEIGHT
467
13-Jun-2023
13:00
linh
pham



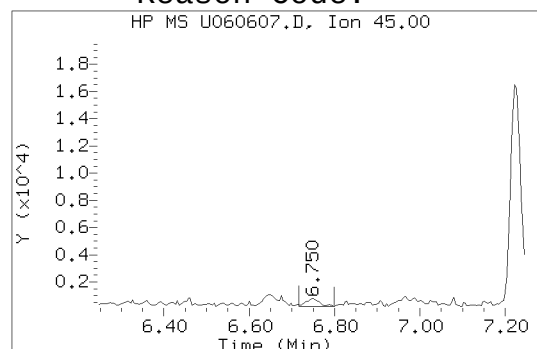
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Inj Date : 06-JUN-2023 13:28
InstruID : VOA9.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)**BEFORE**

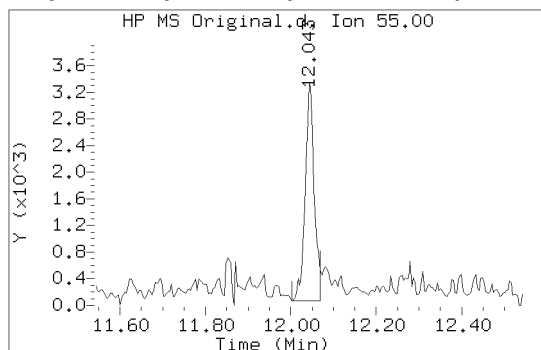
MASS
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HEIGHT
562
08-Jun-2023
14:56
linh
pham

**AFTER**

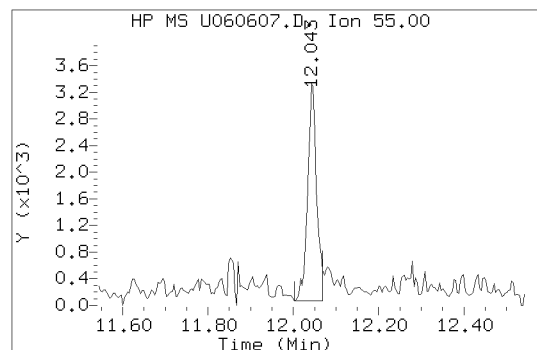
MASS
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AREA
1197
HEIGHT
562
13-Jun-2023
13:00
linh
pham

Reason Code:**2-Ethylhexyl Acrylate (103-11-7)****BEFORE**

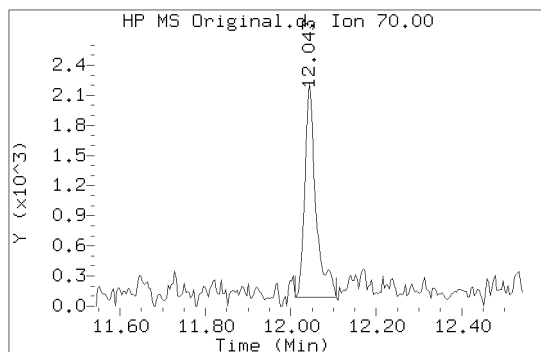
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AREA
4963
HEIGHT
3262
08-Jun-2023
14:56
linh
pham

**AFTER**

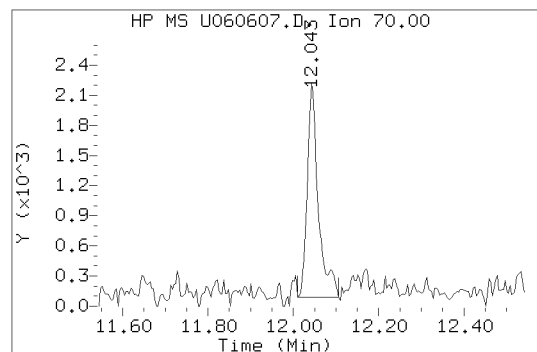
MASS
55
AREA
4963
HEIGHT
3262
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

MASS
70
AREA
3909
HEIGHT
2125
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
70
AREA
3909
HEIGHT
2125
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D Page 1
 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
 Lab Smp Id: VSTD002 Client Smp ID: VSTD002
 Inj Date : 06-JUN-2023 13:50
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD002;VSTD002;1;4;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:28 Cal File: U060607.D
 Als bottle: 9 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Uf}/\text{Vo}) * 1 * \text{CpndVariable}$

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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.819	4.819	(1.000)		654680	50.0000	
2 Dichlorodifluoromethane	85		1.171	1.171	(0.243)		8519	2.00000	1.48(a)
3 Chloromethane	50		1.303	1.303	(0.270)		24280	2.00000	1.17(a)
5 Vinyl Chloride	62		1.385	1.385	(0.288)		12806	2.00000	1.84(a)
6 Bromomethane	94		1.629	1.629	(0.338)		9237	2.00000	0.85(a)
7 Chloroethane	64		1.708	1.708	(0.354)		8750	2.00000	1.87(a)
8 Trichlorofluoromethane	101		1.902	1.902	(0.395)		13346	2.00000	1.67(a)
10 Acetone	43		2.420	2.420	(0.502)		18337	4.00000	2.91(a)
11 1,1-Dichloroethene	96		2.341	2.341	(0.486)		8887	2.00000	1.78(a)
15 Iodomethane	142		2.480	2.480	(0.515)		5244	4.00000	11.12(M)
17 Methylene Chloride	84		2.802	2.802	(0.582)		14226	2.00000	1.40(a)
18 Methyl tert-butyl ether	73		3.087	3.087	(0.641)		27827	2.00000	1.82(a)
19 Carbon Disulfide	76		2.528	2.528	(0.525)		47817	4.00000	3.59(a)
20 trans-1,2-Dichloroethene	96		3.068	3.068	(0.637)		10209	2.00000	1.88(a)
21 Vinyl Acetate	43		3.616	3.616	(0.750)		59931	4.00000	3.63(a)
22 1,1-Dichloroethane	63		3.522	3.522	(0.731)		20288	2.00000	1.97(a)
24 2-Butanone	43		4.279	4.279	(0.888)		11638	4.00000	3.89(a)
26 2,2-Dichloropropane	77		4.182	4.182	(0.868)		12294	2.00000	2.19(a)
27 cis-1,2-Dichloroethene	96		4.204	4.204	(0.872)		12235	2.00000	1.89(a)
28 Chloroform	83		4.579	4.579	(0.950)		20897	2.00000	1.95(a)



29 Bromochloromethane	128	4.474	4.474 (0.928)	6927	2.00000	1.91(a)
\$ 30 Dibromofluoromethane	113	4.755	4.755 (0.987)	10602	2.00000	1.62(a)



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	13786	2.00000	1.69(a)
32 1,1-Dichloropropene	75	4.928	4.928	(0.887)	12050	2.00000	1.70(a)
33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	17690	2.00000	2.12(a)
34 Carbon Tetrachloride	117	4.916	4.916	(0.885)	10294	2.00000	1.58(a)
\$ 35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	11855	2.00000	1.33(a)
* 36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	962707	50.0000	
37 Benzene	78	5.141	5.141	(0.925)	46993	2.00000	2.02(a)
38 Trichloroethene	130	5.794	5.794	(1.042)	12341	2.00000	1.83(a)
39 Bromodichloromethane	83	6.281	6.281	(1.130)	12700	2.00000	1.75(a)
42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	12117	2.00000	1.95(a)
44 Dibromomethane	93	6.123	6.123	(1.102)	7782	2.00000	1.96(a)
45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	30250	4.00000	4.57(a)
46 cis-1,3-Dichloropropene	75	6.697	6.697	(1.205)	12842	2.00000	3.18(a)
* 47 Chlorobenzene-d5	117	8.189	8.189	(1.000)	907233	50.0000	
\$ 48 Toluene-d8	98	6.926	6.926	(0.846)	36710	2.00000	1.78(a)
50 Toluene	91	6.986	6.986	(0.853)	45011	2.00000	1.82(a)
51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	12660	2.00000	3.51(aM)
52 2-Hexanone	43	7.597	7.597	(0.928)	23033	4.00000	5.00
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.898)	10667	2.00000	2.08(a)
54 1,3-Dichloropropane	76	7.503	7.503	(0.916)	21098	2.00000	2.01(a)
55 Dibromochloromethane	129	7.694	7.694	(0.940)	10276	2.00000	1.69(a)
56 Tetrachloroethene	164	7.458	7.458	(0.911)	11347	2.00000	1.89(a)
57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	12823	2.00000	2.03(a)
58 1-Chlorohexane	55	8.189	8.189	(1.473)	9554	2.00000	1.93(aM)
59 Chlorobenzene	112	8.211	8.211	(1.003)	36163	2.00000	2.05(a)
60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	11696	2.00000	1.93(a)
61 Ethylbenzene	106	8.309	8.309	(1.015)	13970	2.00000	1.70(a)
62 m,p-Xylenes	106	8.410	8.410	(1.027)	33831	4.00000	3.49(aM)
63 o-Xylene	106	8.748	8.748	(1.068)	16529	2.00000	1.73(a)
64 Styrene	104	8.766	8.766	(1.070)	26887	2.00000	1.77(a)
66 Bromoform	173	8.920	8.920	(1.089)	7583	2.00000	1.84(a)
67 Isopropylbenzene	105	9.062	9.062	(1.107)	39716	2.00000	1.73(a)
68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	21290	2.00000	2.41(aM)
\$ 69 4-Bromofluorobenzene	95	9.197	9.197	(1.123)	16728	2.00000	1.19(a)
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	468121	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	17163	2.00000	2.21(aM)
73 n-Propylbenzene	91	9.415	9.415	(0.926)	42411	2.00000	1.72(a)
74 Bromobenzene	156	9.317	9.317	(0.916)	17200	2.00000	2.17(a)
75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	31762	2.00000	1.88(a)
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	34904	2.00000	2.02(a)
77 4-Chlorotoluene	91	9.580	9.580	(0.942)	39709	2.00000	2.07(a)
78 tert-Butylbenzene	119	9.838	9.838	(0.967)	29666	2.00000	1.79(a)
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	37613	2.00000	2.13(a)
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	35689	2.00000	1.70(a)
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	31988	2.00000	1.81(a)
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	29086	2.00000	2.16(a)
84 1,4-Dichlorobenzene	146	10.195	10.195	(1.002)	31674	2.00000	2.21(aM)
87 n-Butylbenzene	91	10.494	10.494	(1.032)	27289	2.00000	1.81(a)
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	30371	2.00000	2.25(a)
89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	2819	2.00000	2.19(a)
90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	19713	2.00000	2.13(a)
93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	20459	2.00000	2.26(a)



M 94 1,2-Dichloroethylene (total)	96			22444	4.00000	(a)
135 1,4-Dioxane	88	6.176	6.176 (1.282)	5764	40.0000	44.34(aM)



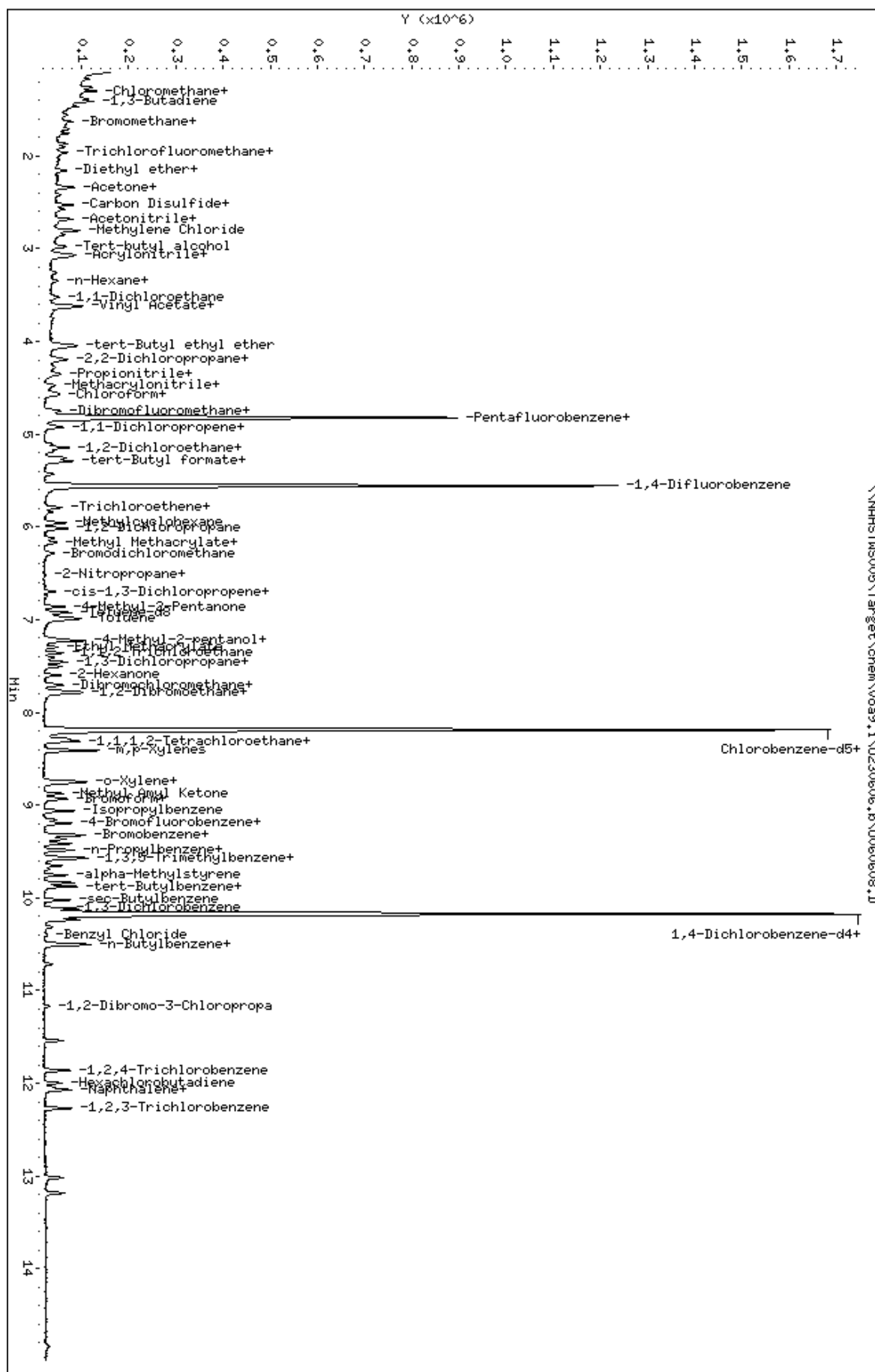
Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D Page 3
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
141 Cyclohexane	56	4.785	4.785	(0.993)	8877	2.00000	1.31(aMH)
138 Freon TF	101	2.341	2.341	(0.486)	6997	2.00000	1.59(aM)
140 1,3-Butadiene	54	1.408	1.408	(0.292)	11039	2.00000	1.78(a)
147 Methylcyclohexane	55	5.955	5.955	(1.071)	22206	2.00000	1.66(a)
146 Methyl Acetate	43	2.723	2.723	(0.565)	12288	2.00000	2.22(a)
148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	34487	40.0000	52.33
149 Isopropyl Alcohol	45	2.573	2.573	(0.534)	22047	40.0000	51.51(T)
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.145)	1936	2.00000	1.85(M)
12 Isobutyl Alcohol	43	5.295	5.295	(1.099)	31429	40.0000	36.94(M)
13 Acetonitrile	39	2.678	2.678	(0.556)	13701	20.0000	19.32
40 Methyl Methacrylate	41	6.161	6.161	(1.278)	9826	2.00000	1.74
4 Propionitrile	54	4.350	4.350	(0.903)	17197	20.0000	18.17(a)
136 n-Hexane	57	3.346	3.346	(0.694)	7179	2.00000	1.45(a)
131 Methyl Acrylate	55	4.377	4.377	(0.908)	11843	2.00000	1.71(aM)
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	4598	2.00000	5.17(M)
49 Ethyl Methacrylate	69	7.297	7.297	(1.313)	13205	2.00000	1.56(a)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	34972	2.00000	1.94(a)
167 Ethanol	45	2.090	2.090	(0.434)	4910	40.0000	38.64
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	43120	2.00000	1.88(a)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	14955	2.00000	5.11
156 Diisopropyl ether	45	3.627	3.627	(0.753)	35538	2.00000	1.94(Ta)
151 4-Methyl-2-pentanol	45	7.226	7.226	(1.300)	47340	40.0000	33.06
150 Allyl alcohol	57	3.346	3.346	(0.694)	7179	40.0000	29.86
86 Benzyl Chloride	91	10.315	10.315	(1.260)	11203	2.00000	5.38
162 Butyl acrylate	55	8.740	8.740	(1.067)	18210	2.00000	1.69(a)
139 Diethyl ether	59	2.154	2.154	(0.447)	8174	2.00000	1.84(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	8201	2.00000	3.58(a)
134 Cyclohexanone	55	9.156	9.156	(0.900)	11087	40.0000	38.20(a)
130 Ethyl Acetate	43	4.279	4.279	(0.888)	11855	2.00000	2.02(aM)
189 n-Butyl acetate	43	7.713	7.713	(0.942)	21837	2.00000	2.11(aM)
182 Epichlorohydrin	57	6.637	6.637	(1.194)	854	8.00000	18.93(M)

QC Flag Legend

T - Target compound detected outside RT window.
 a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.





Data File: \\NAHSTMS005\Target\chem\voa3.1\U230606.b\U060608.D
 Date : 06-JUN-2023 13:50
 Client ID: WSTD002
 Sample Info: WSTD002\WSTD002\1;4;
 Purge Volume: 5.0
 Column phase: DB624

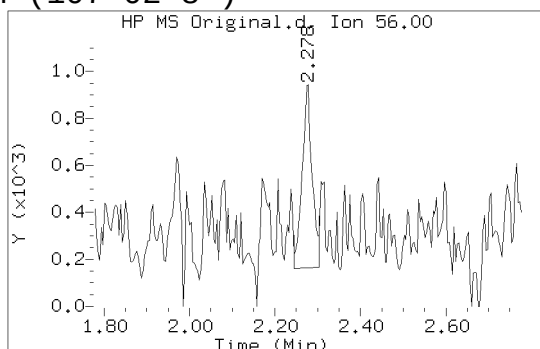
Instrument: WDA9.1
 Operator: PC
 Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

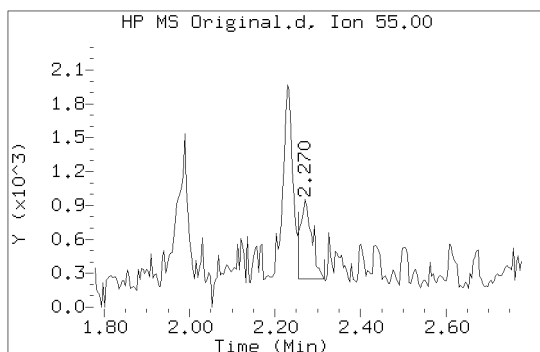
BEFORE

MASS
56
AREA
1315
HEIGHT
779
08-Jun-2023
14:56
linh



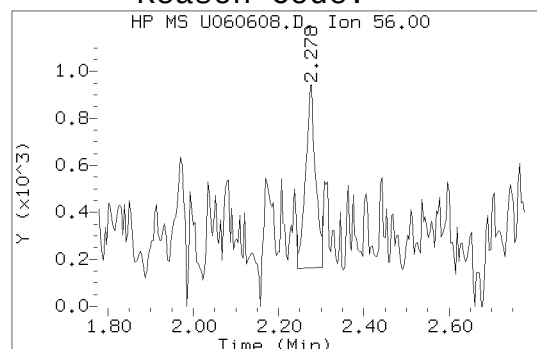
BEFORE

MASS
55
AREA
1335
HEIGHT
706
08-Jun-2023
14:56
linh
pham



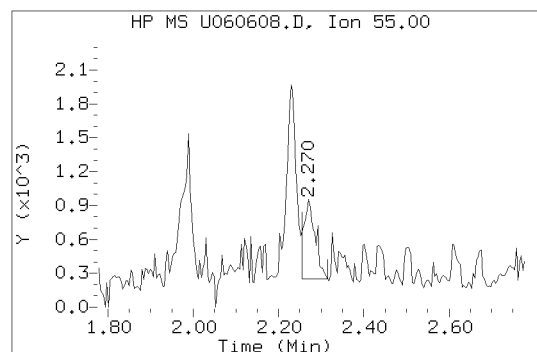
AFTER

MASS
56
AREA
1315
HEIGHT
779
13-Jun-2023
13:00
linh



AFTER

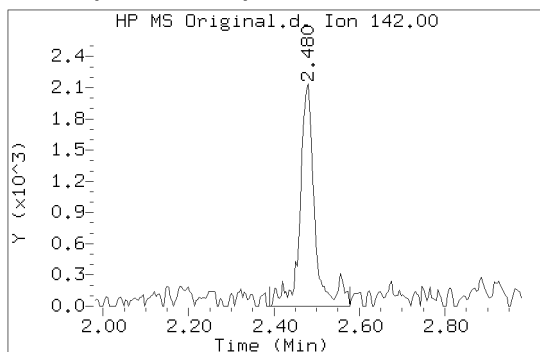
MASS
55
AREA
1335
HEIGHT
706
13-Jun-2023
13:00
linh
pham



Iodomethane (74-88-4)

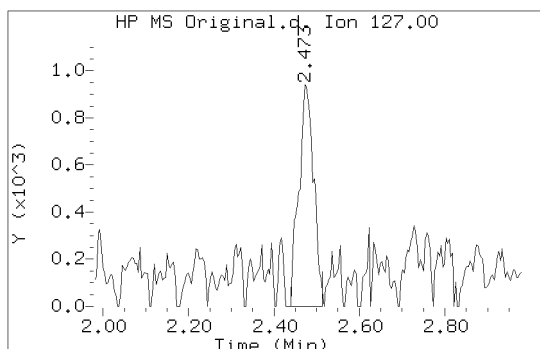
BEFORE

MASS
142
AREA
5244
HEIGHT
2136
08-Jun-2023
14:56
linh
pham



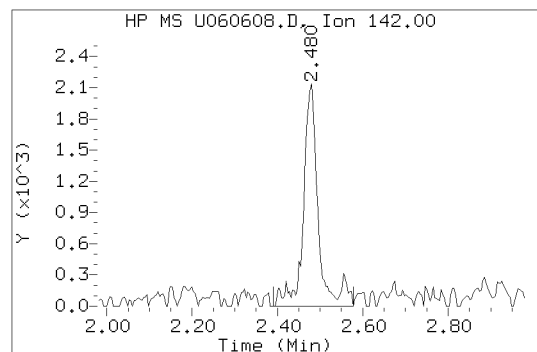
BEFORE

MASS
127
AREA
2301
HEIGHT
941
08-Jun-2023
14:56
linh
pham



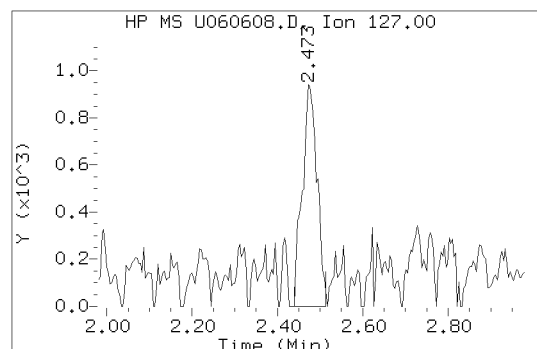
AFTER

MASS
142
AREA
5244
HEIGHT
2136
13-Jun-2023
13:00
linh
pham



AFTER

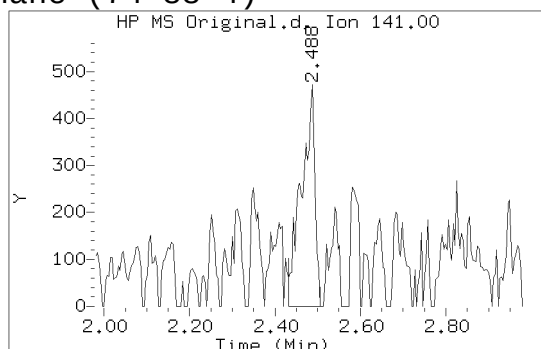
MASS
127
AREA
2301
HEIGHT
941
13-Jun-2023
13:00
linh
pham



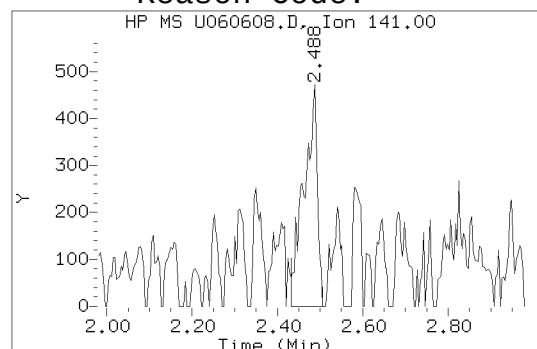
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Iodomethane (74-88-4)**BEFORE**

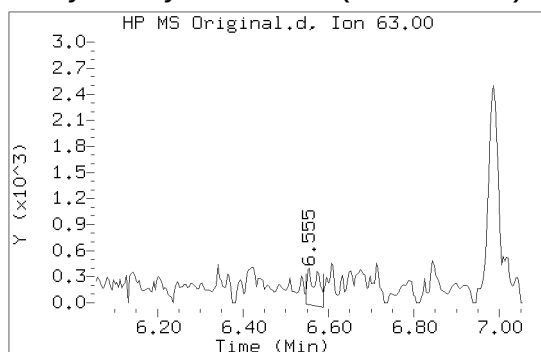
MASS
141
AREA
1044
HEIGHT
472
08-Jun-2023
14:56
linh
pham

**AFTER**

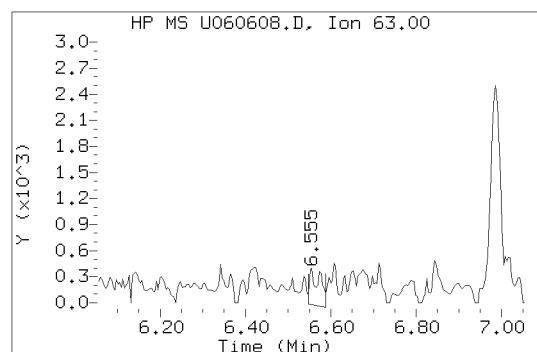
MASS
141
AREA
1044
HEIGHT
472
13-Jun-2023
13:00
linh
pham

Reason Code:**2-Chloroethylvinyl ether (110-75-8)****BEFORE**

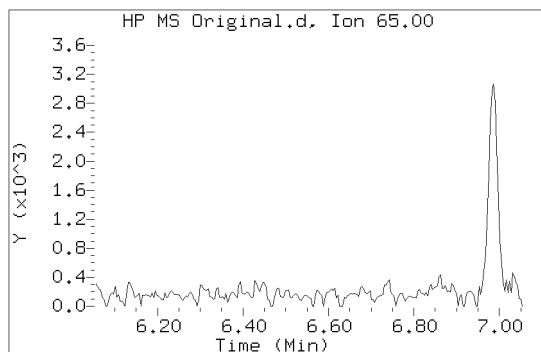
MASS
63
AREA
728
HEIGHT
422
08-Jun-2023
14:56
linh
pham

**AFTER**

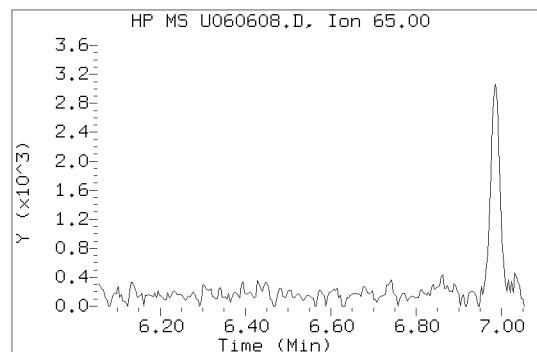
MASS
63
AREA
728
HEIGHT
422
13-Jun-2023
13:00
linh
pham

Reason Code:**BEFORE**

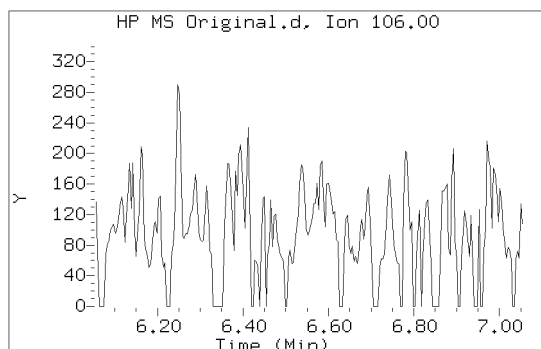
MASS
65
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

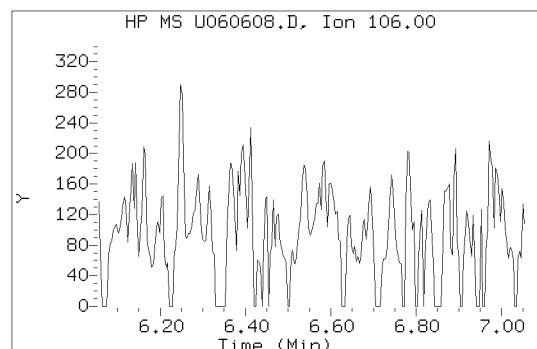
MASS
65
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**BEFORE**

MASS
106
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
106
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

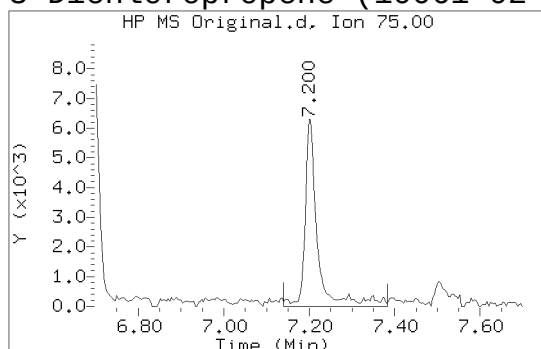


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

trans-1,3-Dichloropropene (10061-02-6)

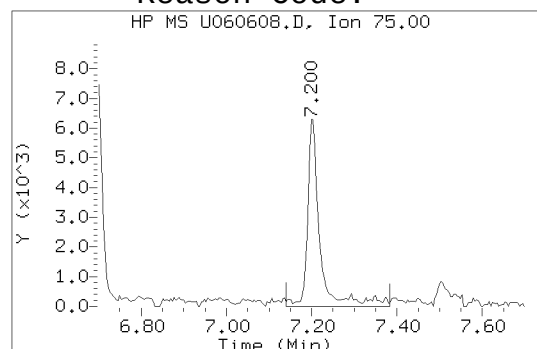
BEFORE

MASS
75
AREA
12660
HEIGHT
6296
08-Jun-2023
14:56
linh



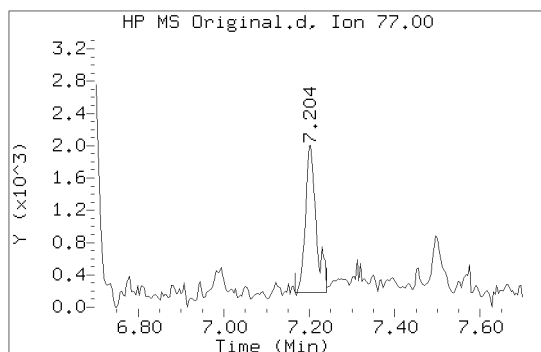
AFTER

MASS
75
AREA
12660
HEIGHT
6296
13-Jun-2023
13:00
linh



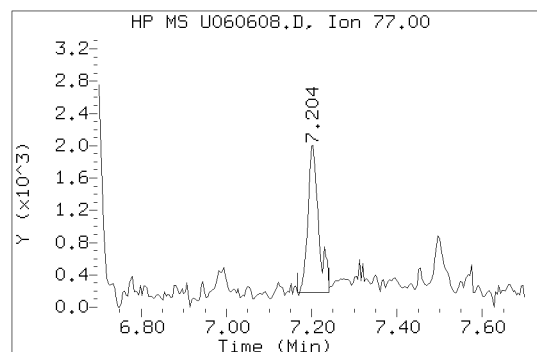
BEFORE

MASS
77
AREA
3204
HEIGHT
1827
08-Jun-2023
14:56
linh
pham



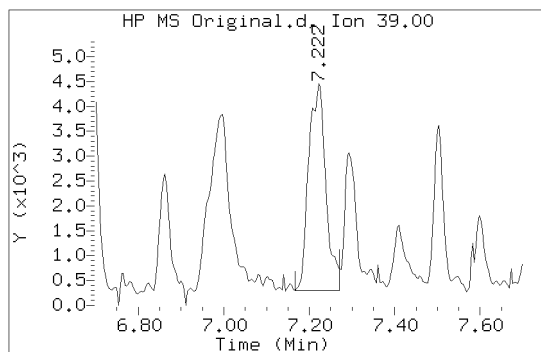
AFTER

MASS
77
AREA
3204
HEIGHT
1827
13-Jun-2023
13:00
linh
pham



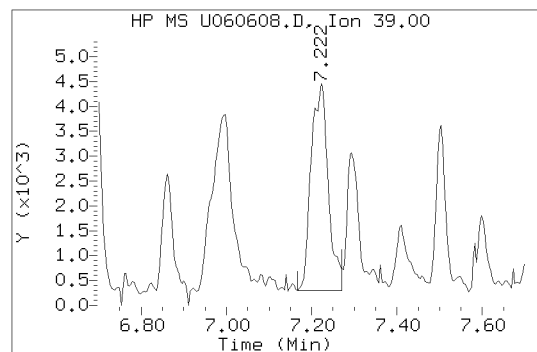
BEFORE

MASS
39
AREA
11661
HEIGHT
4160
08-Jun-2023
14:56
linh
pham



AFTER

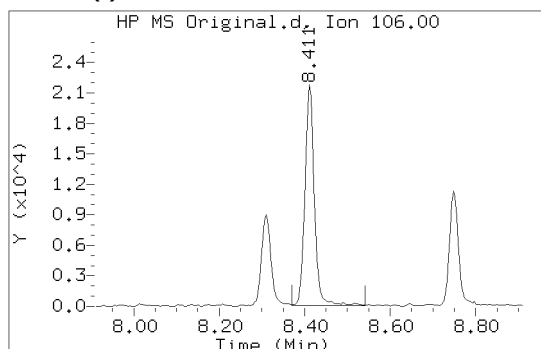
MASS
39
AREA
11661
HEIGHT
4160
13-Jun-2023
13:00
linh
pham



m,p-Xylenes ()

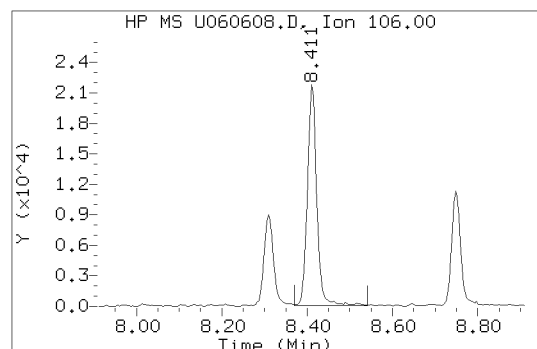
BEFORE

MASS
106
AREA
33831
HEIGHT
21724
08-Jun-2023
14:56
linh
pham



AFTER

MASS
106
AREA
33831
HEIGHT
21724
13-Jun-2023
13:00
linh
pham

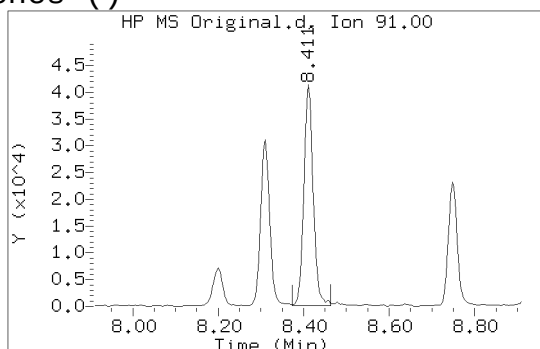


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060608.D
 Inj Date : 06-JUN-2023 13:50
 InstruID : VOA9.i
 LabSampID : VSTD002

m,p-Xylenes ()

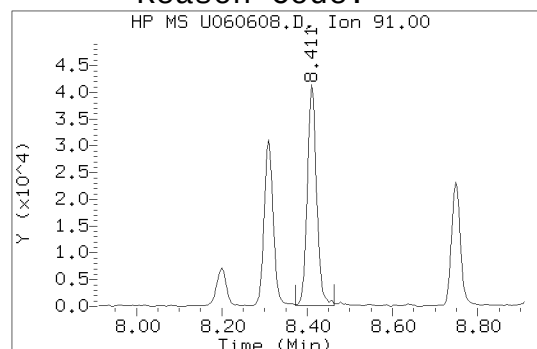
BEFORE

MASS
91
AREA
63741
HEIGHT
41264
08-Jun-2023
14:56
linh
pham



AFTER

MASS
91
AREA
63741
HEIGHT
41264
13-Jun-2023
13:00
linh
pham

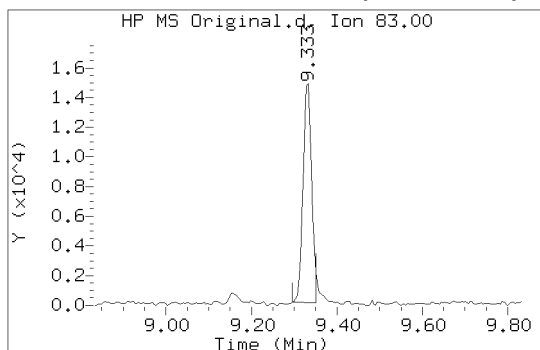


Reason Code:

1,1,2,2-Tetrachloroethane (79-34-5)

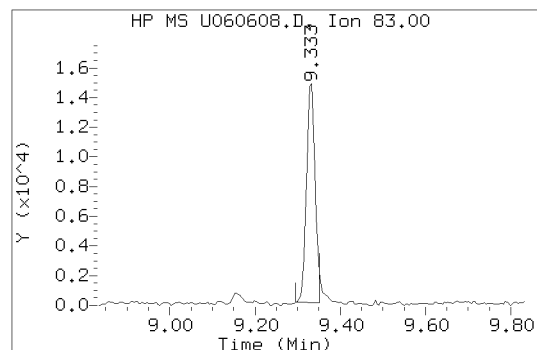
BEFORE

MASS
83
AREA
21290
HEIGHT
14748
08-Jun-2023
14:56
linh
pham



AFTER

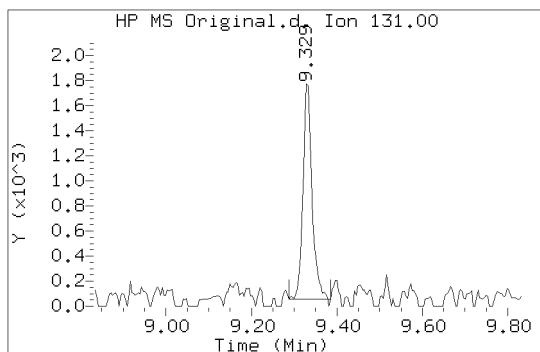
MASS
83
AREA
21290
HEIGHT
14748
13-Jun-2023
13:00
linh
pham



Reason Code:

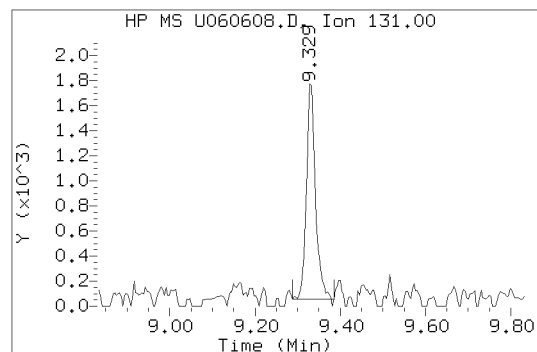
BEFORE

MASS
131
AREA
2587
HEIGHT
1718
08-Jun-2023
14:56
linh
pham



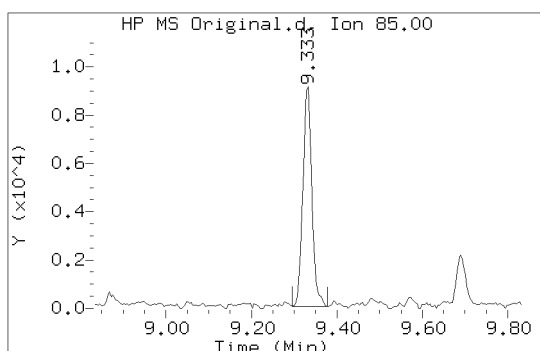
AFTER

MASS
131
AREA
2587
HEIGHT
1718
13-Jun-2023
13:00
linh
pham



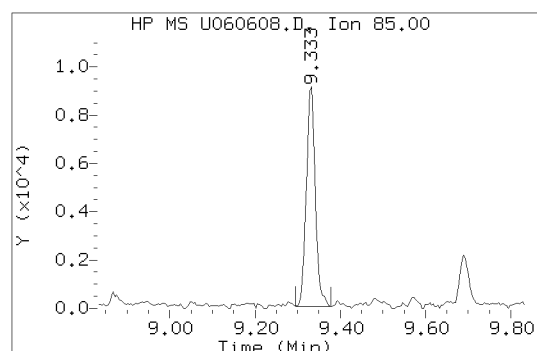
BEFORE

MASS
85
AREA
13620
HEIGHT
9094
08-Jun-2023
14:56
linh
pham



AFTER

MASS
85
AREA
13620
HEIGHT
9094
13-Jun-2023
13:00
linh
pham

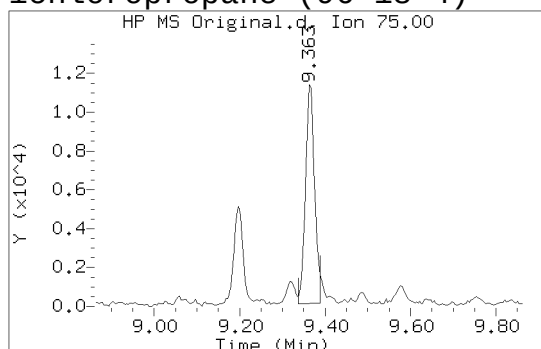


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

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

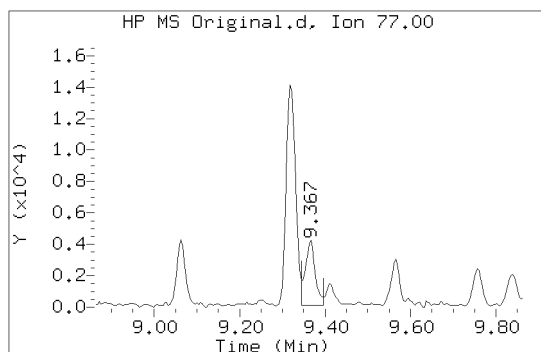
BEFORE

MASS
75
AREA
17163
HEIGHT
11263
08-Jun-2023
14:56
linh



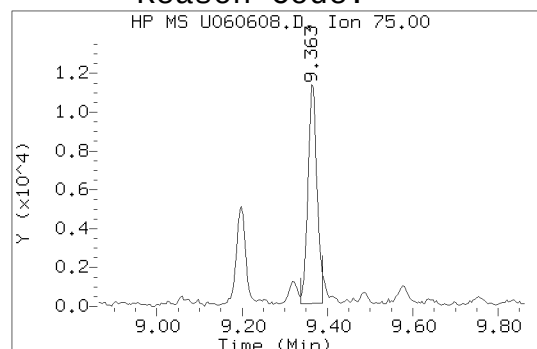
BEFORE

MASS
77
AREA
7018
HEIGHT
4115
08-Jun-2023
14:56
linh
pham



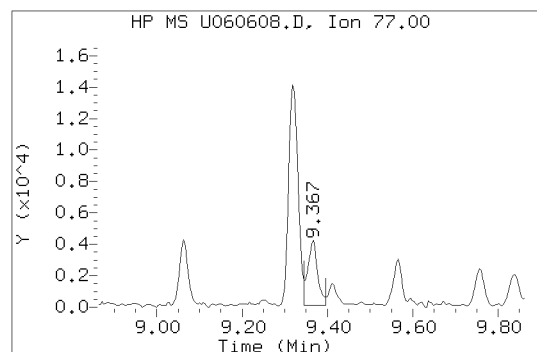
AFTER

MASS
75
AREA
17163
HEIGHT
11263
13-Jun-2023
13:00
linh



AFTER

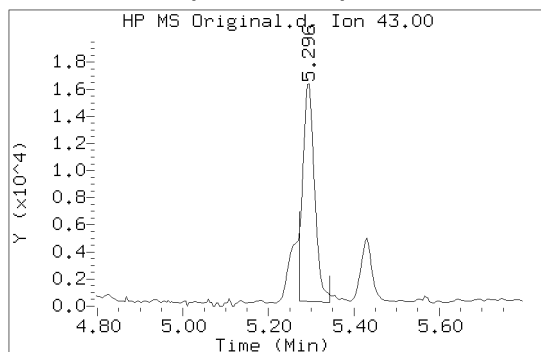
MASS
77
AREA
7018
HEIGHT
4115
13-Jun-2023
13:00
linh
pham



Isobutyl Alcohol (78-83-1)

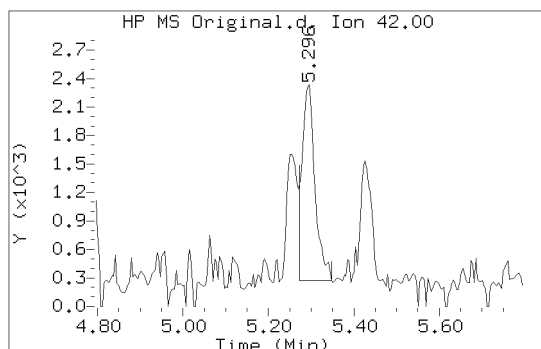
BEFORE

MASS
43
AREA
31429
HEIGHT
16036
08-Jun-2023
14:56
linh
pham



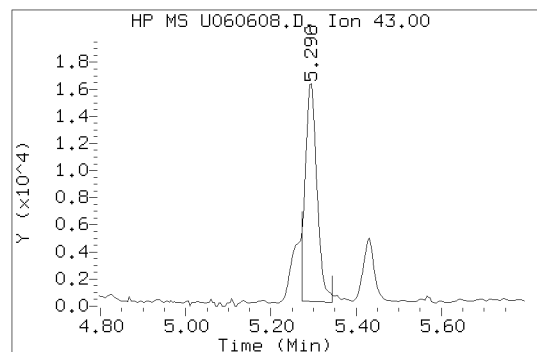
BEFORE

MASS
42
AREA
4414
HEIGHT
2065
08-Jun-2023
14:56
linh
pham



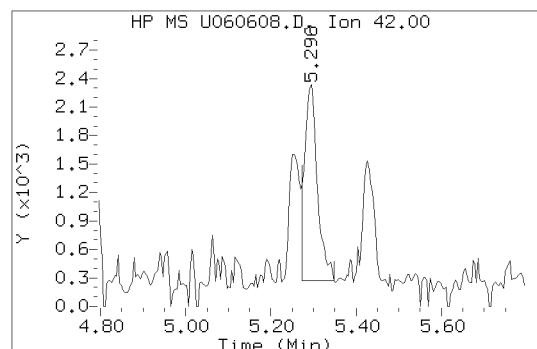
AFTER

MASS
43
AREA
31429
HEIGHT
16036
13-Jun-2023
13:00
linh
pham



AFTER

MASS
42
AREA
4414
HEIGHT
2065
13-Jun-2023
13:00
linh
pham

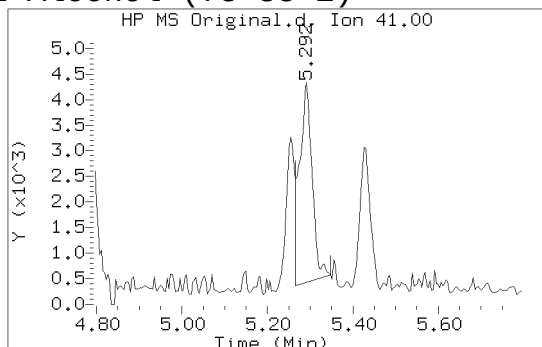


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

BEFORE

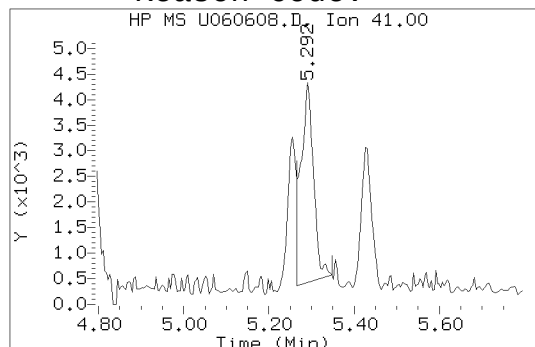
MASS
41
AREA
8253
HEIGHT
3899
08-Jun-2023
14:56
linh
pham



AFTER

MASS
41
AREA
8253
HEIGHT
3899
13-Jun-2023
13:00
linh
pham

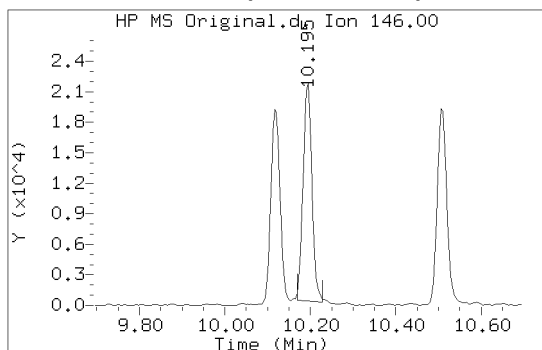
Reason Code:



1,4-Dichlorobenzene (106-46-7)

BEFORE

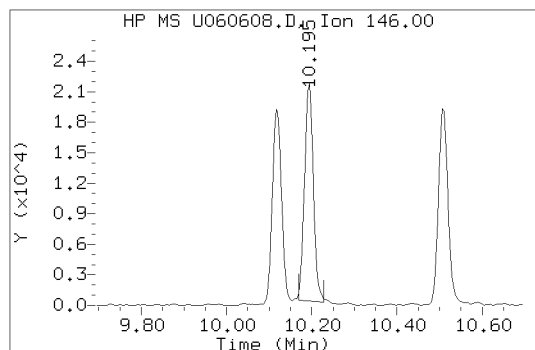
MASS
146
AREA
31674
HEIGHT
21370
08-Jun-2023
14:56
linh
pham



AFTER

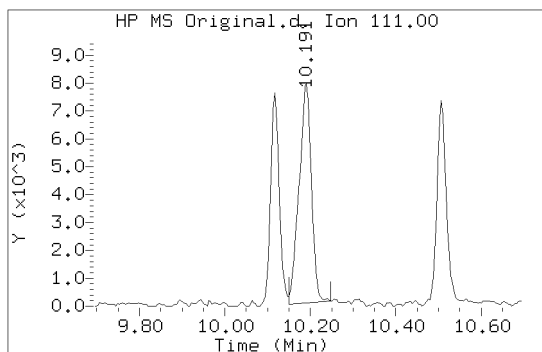
MASS
146
AREA
31674
HEIGHT
21370
13-Jun-2023
13:00
linh
pham

Reason Code:



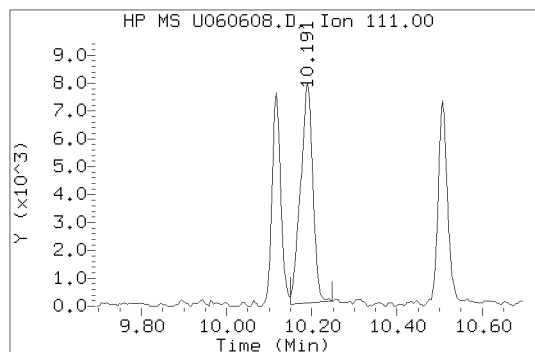
BEFORE

MASS
111
AREA
16075
HEIGHT
7847
08-Jun-2023
14:56
linh
pham



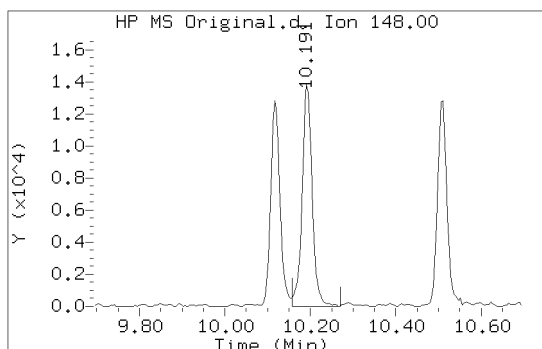
AFTER

MASS
111
AREA
16075
HEIGHT
7847
13-Jun-2023
13:00
linh
pham



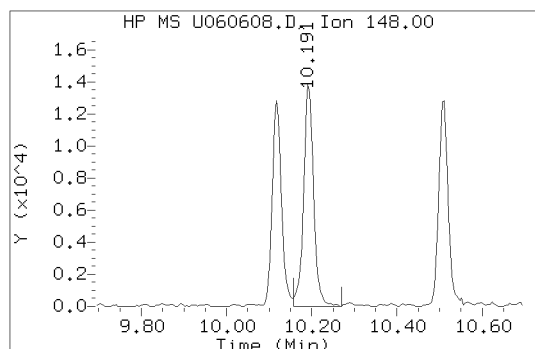
BEFORE

MASS
148
AREA
23144
HEIGHT
13826
08-Jun-2023
14:56
linh
pham



AFTER

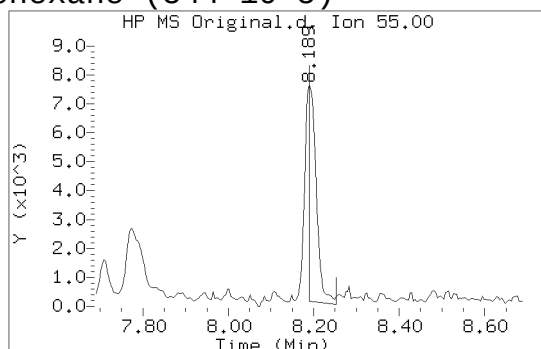
MASS
148
AREA
23144
HEIGHT
13826
13-Jun-2023
13:00
linh
pham



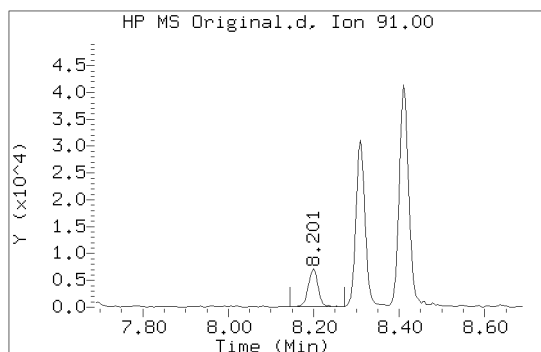
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1-Chlorohexane (544-10-5)**BEFORE**

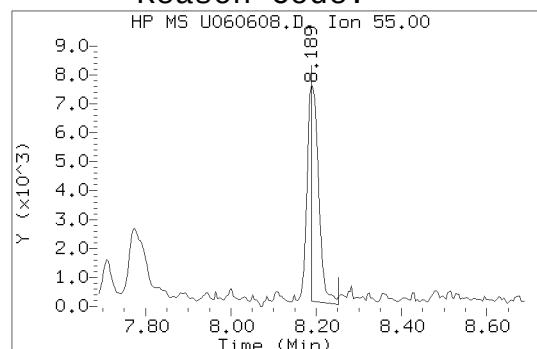
MASS
55
AREA
9554
HEIGHT
7479
08-Jun-2023
14:56
linh

**BEFORE**

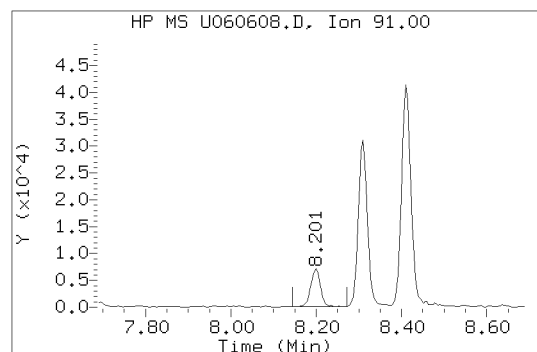
MASS
91
AREA
11373
HEIGHT
7051
08-Jun-2023
14:56
linh
pham

**AFTER**

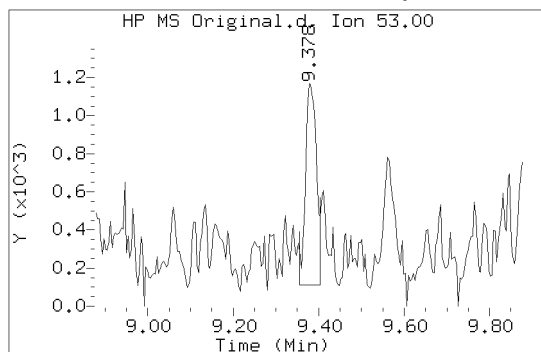
MASS
55
AREA
9554
HEIGHT
7479
13-Jun-2023
13:00
linh

Reason Code:**AFTER**

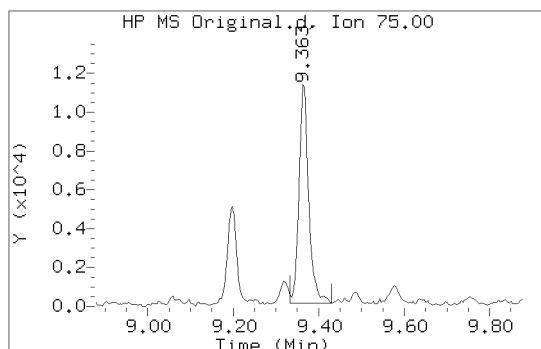
MASS
91
AREA
11373
HEIGHT
7051
13-Jun-2023
13:00
linh
pham

**trans-1,4-Dichloro-2-butene (110-57-6)****BEFORE**

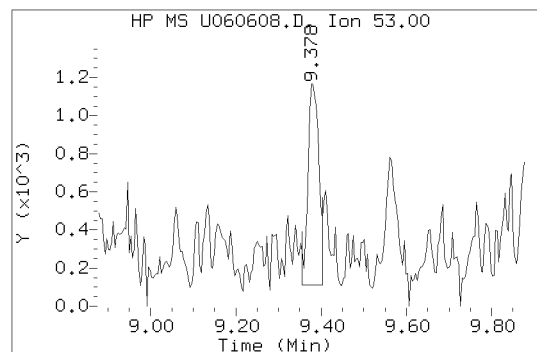
MASS
53
AREA
1936
HEIGHT
1056
08-Jun-2023
14:56
linh
pham

**BEFORE**

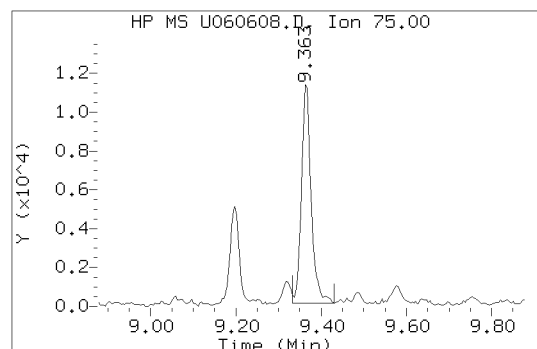
MASS
75
AREA
18151
HEIGHT
11253
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
53
AREA
1936
HEIGHT
1056
13-Jun-2023
13:00
linh
pham

Reason Code:**AFTER**

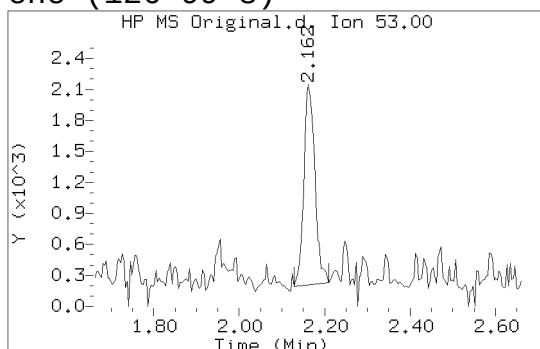
MASS
75
AREA
18151
HEIGHT
11253
13-Jun-2023
13:00
linh
pham



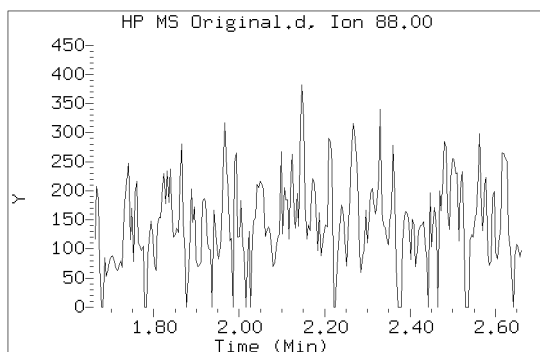
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Chloroprene (126-99-8)**BEFORE**

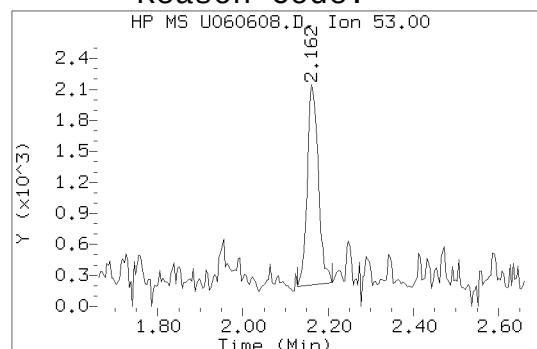
MASS
53
AREA
3552
HEIGHT
1939
08-Jun-2023
14:56
linh

**BEFORE**

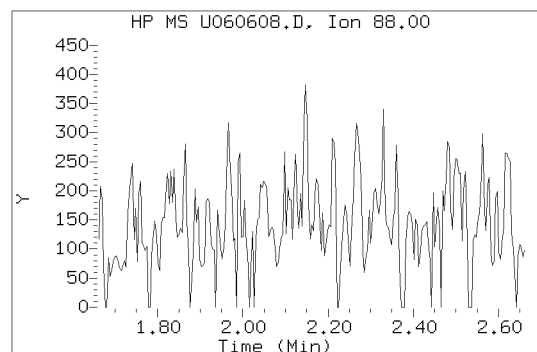
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

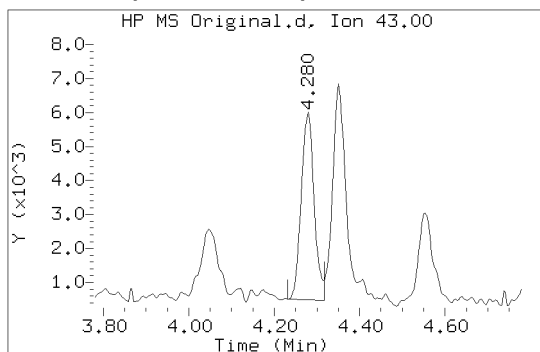
MASS
53
AREA
3552
HEIGHT
1939
13-Jun-2023
13:00
linh

**AFTER**

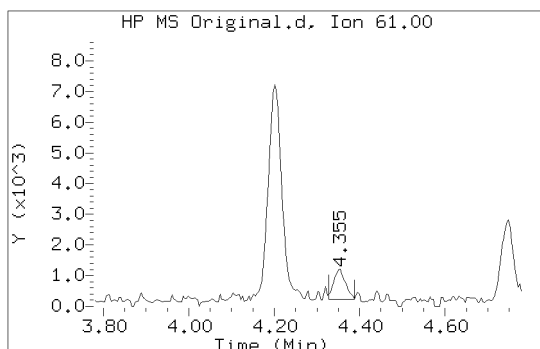
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**Ethyl Acetate (141-78-6)****BEFORE**

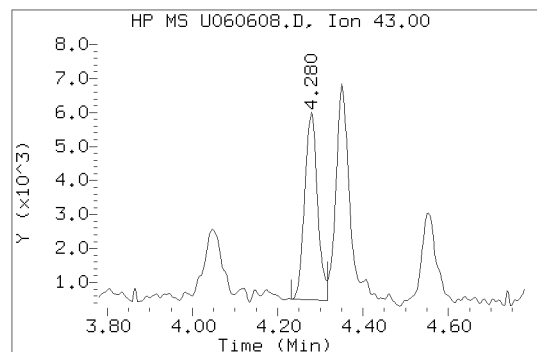
MASS
43
AREA
11855
HEIGHT
5517
08-Jun-2023
14:56
linh
pham

**BEFORE**

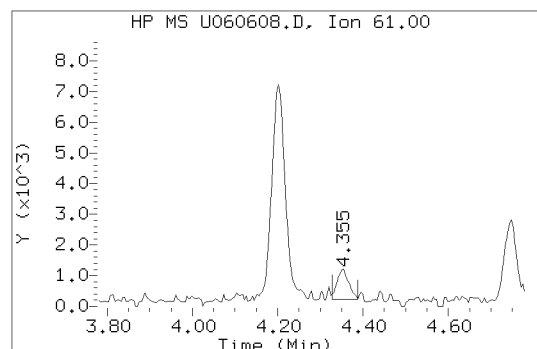
MASS
61
AREA
1871
HEIGHT
977
08-Jun-2023
14:56
linh
pham

**Reason Code:****AFTER**

MASS
43
AREA
11855
HEIGHT
5517
13-Jun-2023
13:00
linh
pham

**AFTER**

MASS
61
AREA
1871
HEIGHT
977
13-Jun-2023
13:00
linh
pham

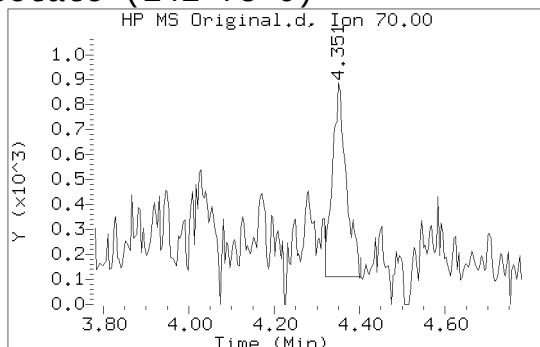


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

BEFORE

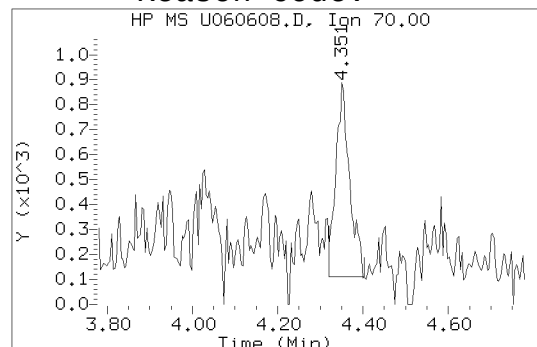
MASS
70
AREA
1750
HEIGHT
777
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
1750
HEIGHT
777
13-Jun-2023
13:00
linh
pham

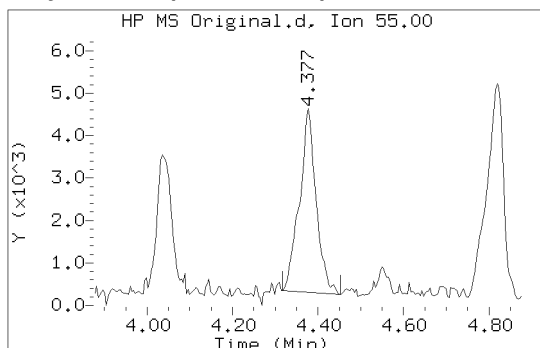
Reason Code:



Methyl Acrylate (96-33-3)

BEFORE

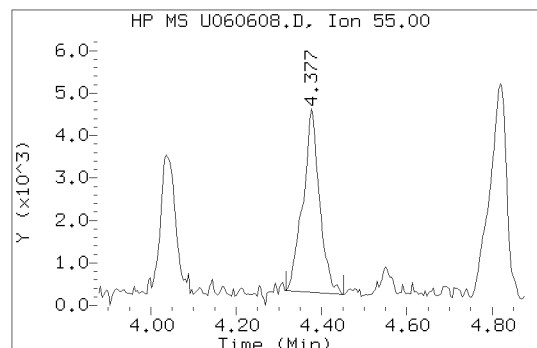
MASS
55
AREA
11843
HEIGHT
4323
08-Jun-2023
14:56
linh
pham



AFTER

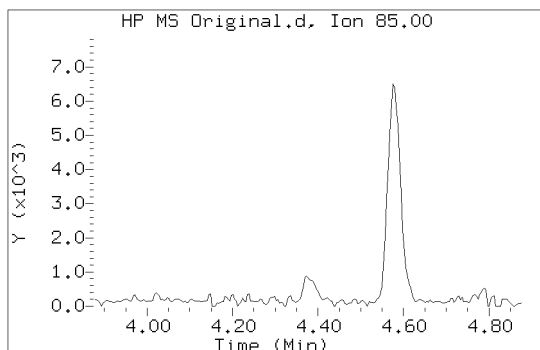
MASS
55
AREA
11843
HEIGHT
4323
13-Jun-2023
13:00
linh
pham

Reason Code:



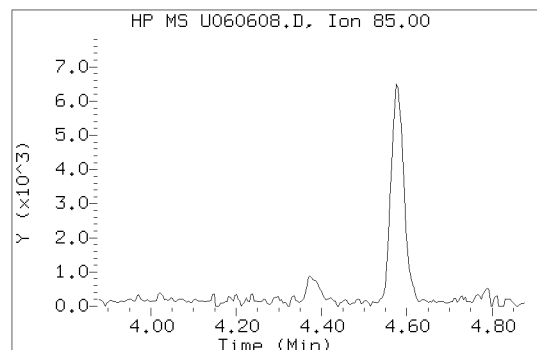
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

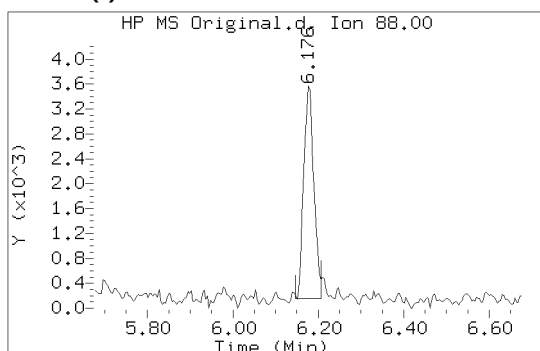
MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



1,4-Dioxane ()

BEFORE

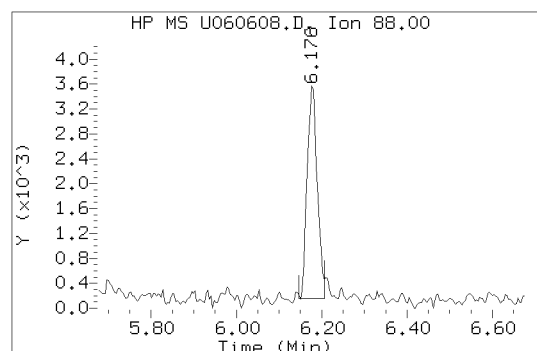
MASS
88
AREA
5764
HEIGHT
3411
08-Jun-2023
14:56
linh
pham



AFTER

MASS
88
AREA
5764
HEIGHT
3411
13-Jun-2023
13:00
linh
pham

Reason Code:

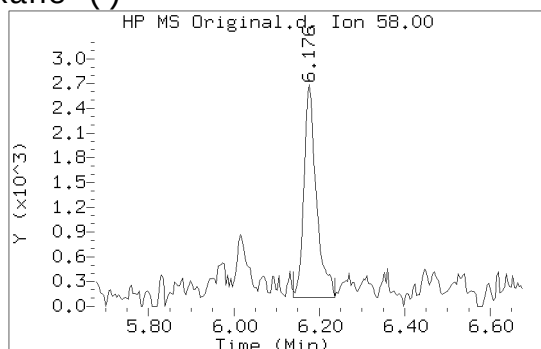


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

1,4-Dioxane ()

BEFORE

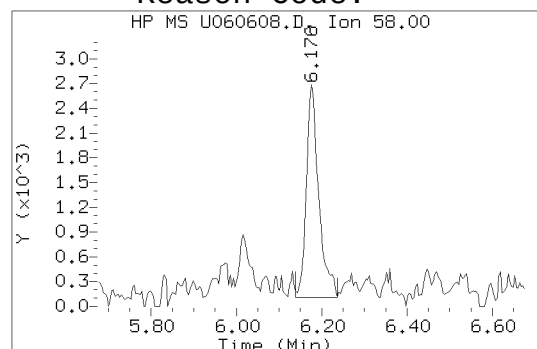
MASS
58
AREA
5271
HEIGHT
2575
08-Jun-2023
14:56
linh
pham



AFTER

MASS
58
AREA
5271
HEIGHT
2575
13-Jun-2023
13:00
linh
pham

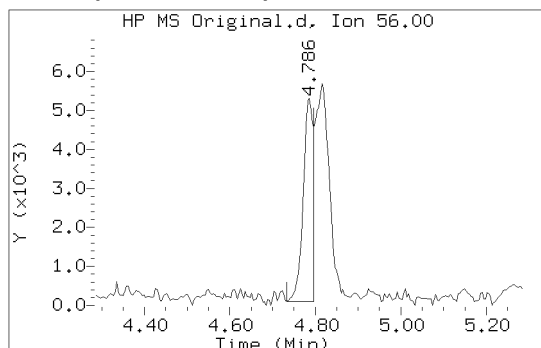
Reason Code:



Cyclohexane (110-82-7)

BEFORE

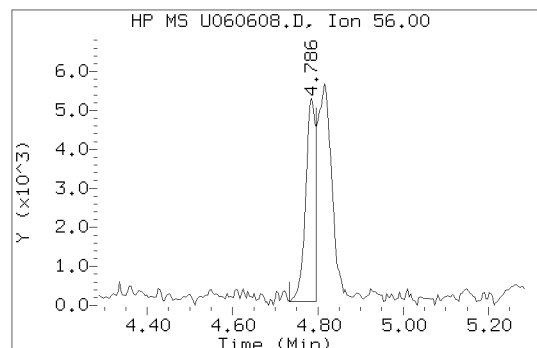
MASS
56
AREA
8877
HEIGHT
5201
08-Jun-2023
14:56
linh
pham



AFTER

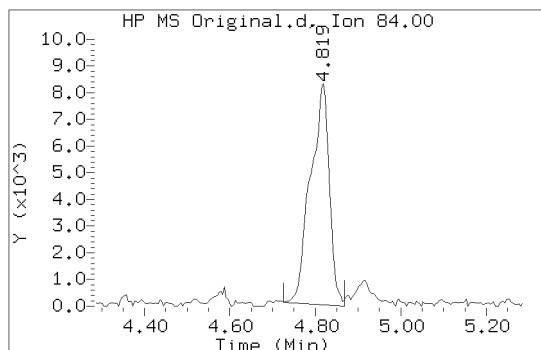
MASS
56
AREA
8877
HEIGHT
5201
13-Jun-2023
13:00
linh
pham

Reason Code:



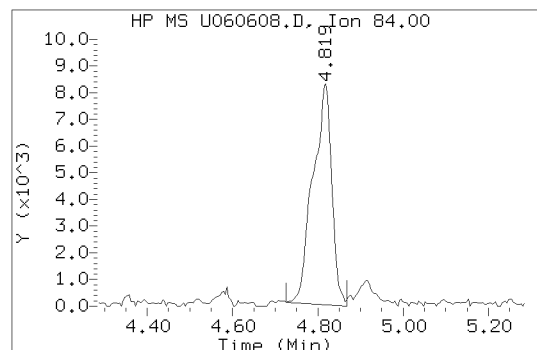
BEFORE

MASS
84
AREA
25654
HEIGHT
8278
08-Jun-2023
14:56
linh
pham



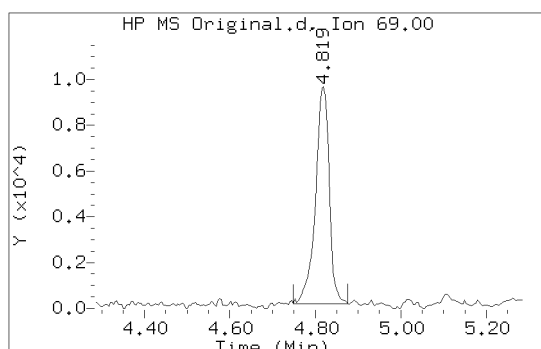
AFTER

MASS
84
AREA
25654
HEIGHT
8278
13-Jun-2023
13:00
linh
pham



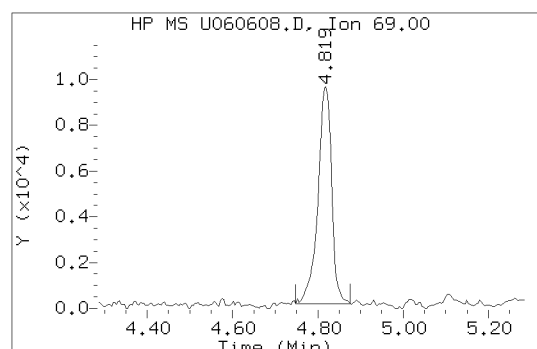
BEFORE

MASS
69
AREA
21405
HEIGHT
9491
08-Jun-2023
14:56
linh
pham



AFTER

MASS
69
AREA
21405
HEIGHT
9491
13-Jun-2023
13:00
linh
pham

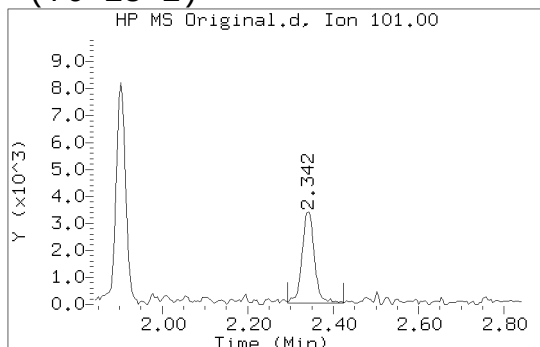


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Freon TF (76-13-1)

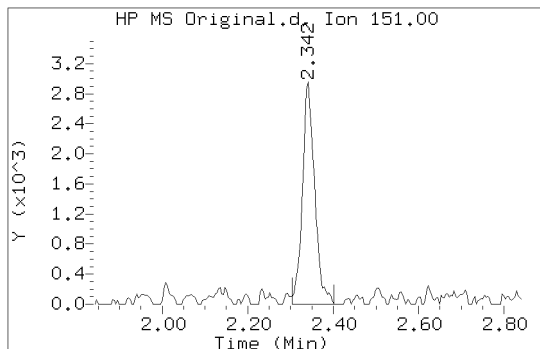
BEFORE

MASS
101
AREA
6997
HEIGHT
3366
08-Jun-2023
14:56
linh



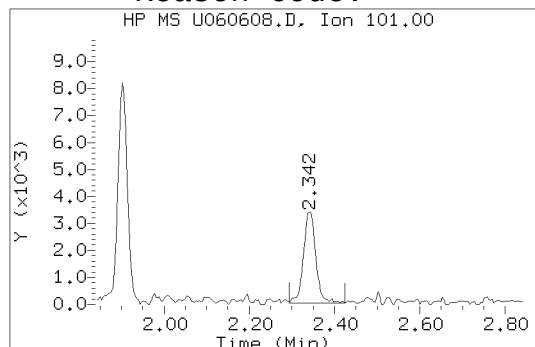
BEFORE

MASS
151
AREA
5971
HEIGHT
2957
08-Jun-2023
14:56
linh
pham



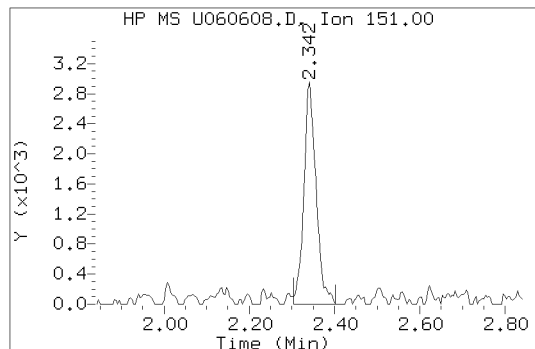
AFTER

MASS
101
AREA
6997
HEIGHT
3366
13-Jun-2023
13:00
linh



AFTER

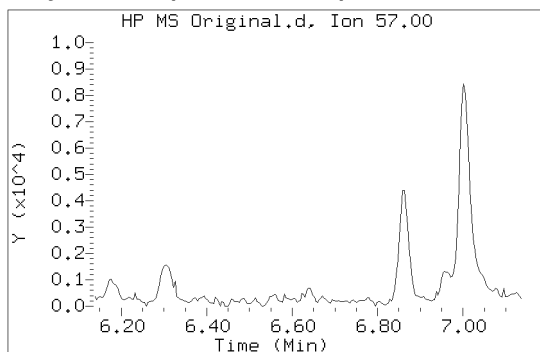
MASS
151
AREA
5971
HEIGHT
2957
13-Jun-2023
13:00
linh
pham



Epichlorohydrin (106-89-8)

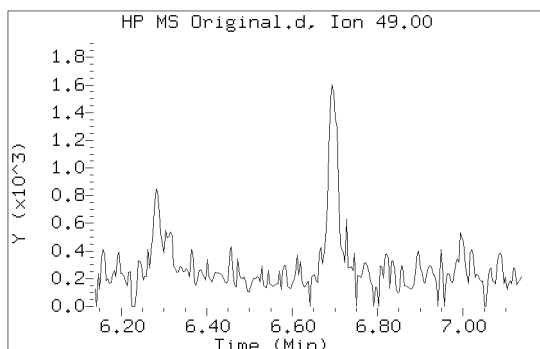
BEFORE

MASS
57
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



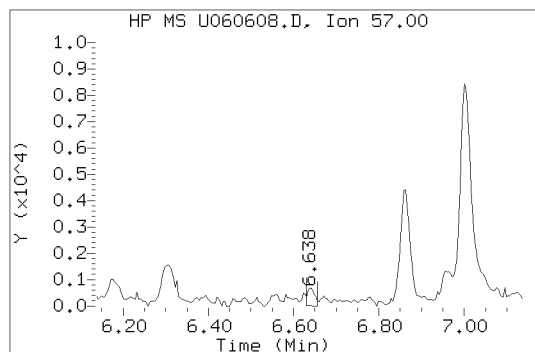
BEFORE

MASS
49
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



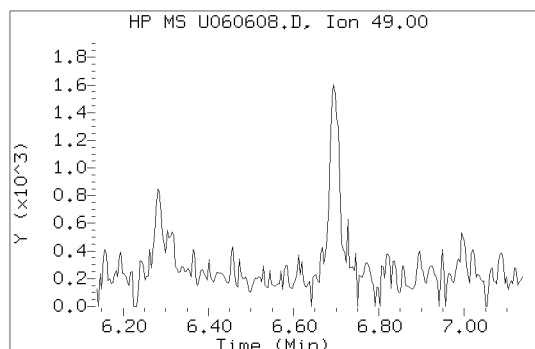
AFTER

MASS
57
AREA
854
HEIGHT
671
13-Jun-2023
13:00
linh
pham



AFTER

MASS
49
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

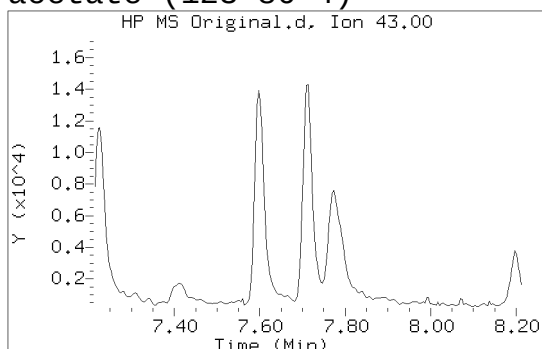


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

BEFORE

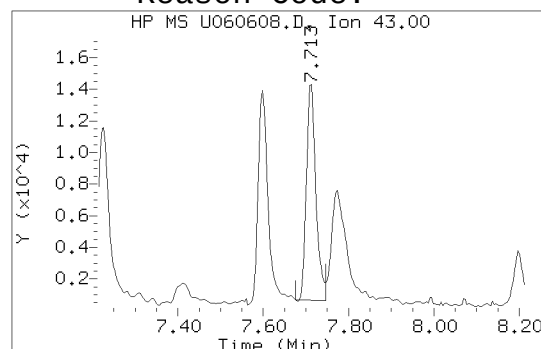
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh



AFTER

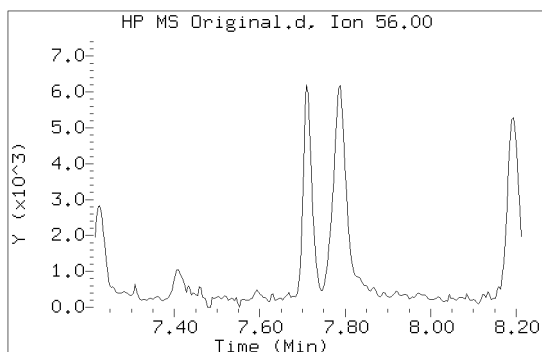
MASS
43
AREA
21837
HEIGHT
13643
13-Jun-2023
13:00
linh

Reason Code:



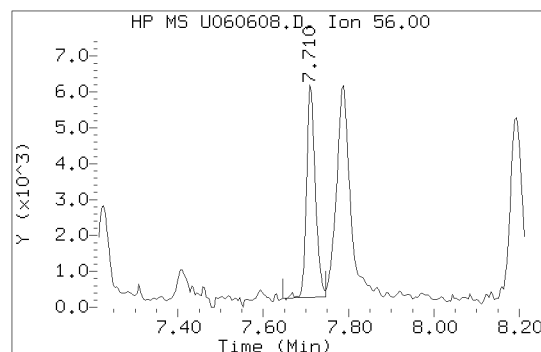
BEFORE

MASS
56
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



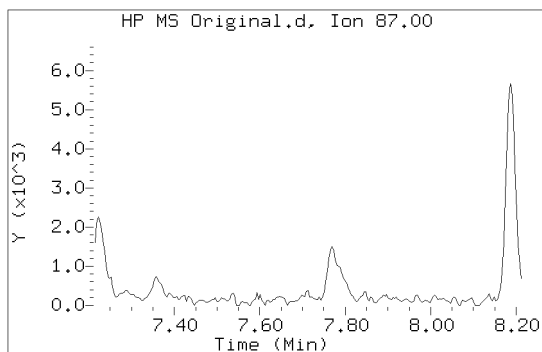
AFTER

MASS
56
AREA
8685
HEIGHT
5924
13-Jun-2023
13:00
linh
pham



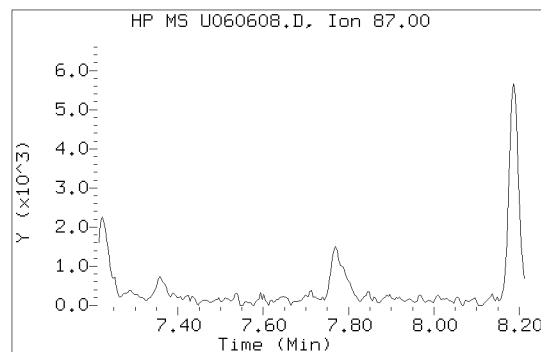
BEFORE

MASS
87
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

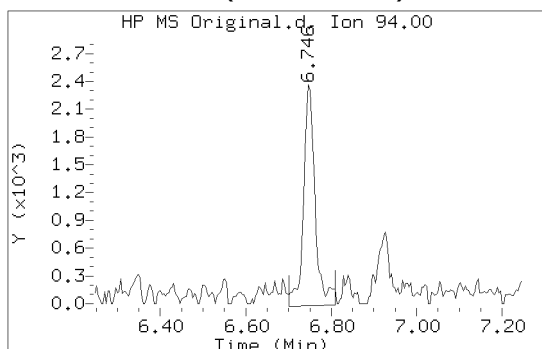
MASS
87
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



Dimethyl Disulfide (624-92-0)

BEFORE

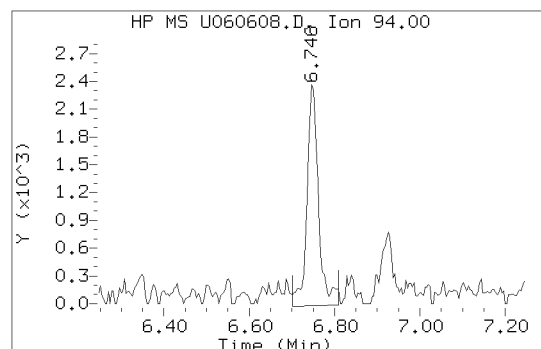
MASS
94
AREA
4598
HEIGHT
2385
08-Jun-2023
14:56
linh
pham



AFTER

MASS
94
AREA
4598
HEIGHT
2385
13-Jun-2023
13:00
linh
pham

Reason Code:

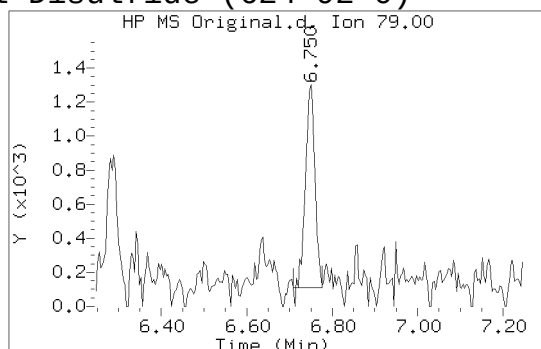


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060608.D
Inj Date : 06-JUN-2023 13:50
InstruID : VOA9.i
LabSampID : VSTD002

Dimethyl Disulfide (624-92-0)

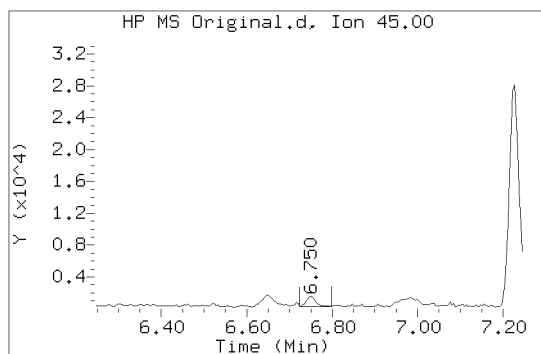
BEFORE

MASS
79
AREA
1852
HEIGHT
1191
08-Jun-2023
14:56
linh
pham



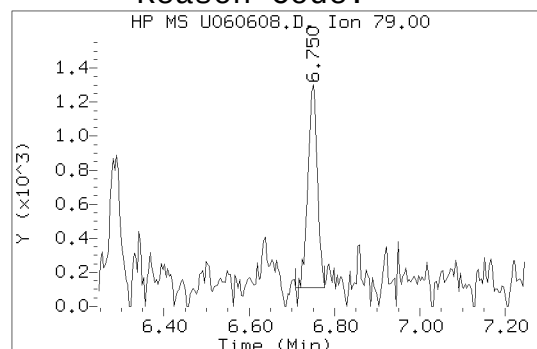
BEFORE

MASS
45
AREA
1888
HEIGHT
1245
08-Jun-2023
14:56
linh
pham



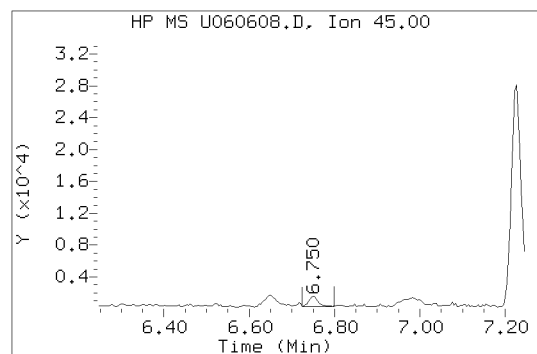
AFTER

MASS
79
AREA
1852
HEIGHT
1191
13-Jun-2023
13:00
linh
pham



AFTER

MASS
45
AREA
1888
HEIGHT
1245
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D Page 1
 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D
 Lab Smp Id: VSTD020 Client Smp ID: VSTD020
 Inj Date : 06-JUN-2023 14:13
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD020;VSTD020;1;6;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 10 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.811	4.811	(1.000)		699800	50.0000	
2 Dichlorodifluoromethane	85		1.156	1.156	(0.240)		134998	20.0000	20.92
3 Chloromethane	50		1.291	1.291	(0.268)		243997	20.0000	22.39
5 Vinyl Chloride	62		1.370	1.370	(0.285)		154975	20.0000	20.93
6 Bromomethane	94		1.614	1.614	(0.335)		85360	20.0000	21.41
7 Chloroethane	64		1.693	1.693	(0.352)		101661	20.0000	20.38
8 Trichlorofluoromethane	101		1.891	1.891	(0.393)		186610	20.0000	21.95
9 Acrolein	56		2.259	2.259	(0.469)		13555	40.0000	36.49
10 Acetone	43		2.405	2.405	(0.500)		105410	40.0000	40.65
11 1,1-Dichloroethene	96		2.326	2.326	(0.483)		106844	20.0000	20.11
15 Iodomethane	142		2.465	2.465	(0.512)		69713	40.0000	25.52
16 Acrylonitrile	53		3.061	3.061	(0.636)		100523	40.0000	38.73
17 Methylene Chloride	84		2.791	2.791	(0.580)		133454	20.0000	20.31
18 Methyl tert-butyl ether	73		3.076	3.076	(0.639)		301047	20.0000	18.48
19 Carbon Disulfide	76		2.514	2.514	(0.522)		585546	40.0000	41.23
20 trans-1,2-Dichloroethene	96		3.053	3.053	(0.635)		117673	20.0000	20.36
21 Vinyl Acetate	43		3.604	3.604	(0.749)		686124	40.0000	38.96
22 1,1-Dichloroethane	63		3.511	3.511	(0.730)		209138	20.0000	19.05
24 2-Butanone	43		4.264	4.264	(0.886)		120643	40.0000	37.81
26 2,2-Dichloropropane	77		4.178	4.178	(0.868)		139835	20.0000	19.51



27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	136001	20.0000	19.67
28 Chloroform	83	4.568	4.568 (0.949)	226645	20.0000	19.83

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060609.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128		4.467	4.467	(0.928)		75232	20.0000	19.46
\$ 30 Dibromofluoromethane	113		4.744	4.744	(0.986)		119153	20.0000	20.09
31 1,1,1-Trichloroethane	97		4.740	4.740	(0.985)		178912	20.0000	20.54
32 1,1-Dichloropropene	75		4.916	4.916	(0.886)		160757	20.0000	20.96
33 1,2-Dichloroethane	62		5.175	5.175	(0.932)		178788	20.0000	19.74
34 Carbon Tetrachloride	117		4.909	4.909	(0.885)		147458	20.0000	20.93
\$ 35 1,2-Dichloroethane-d4	65		5.096	5.096	(1.059)		129564	20.0000	19.98
* 36 1,4-Difluorobenzene	114		5.550	5.550	(1.000)		1046146	50.0000	
37 Benzene	78		5.138	5.138	(0.926)		516341	20.0000	20.48
38 Trichloroethene	130		5.786	5.786	(1.043)		145174	20.0000	19.86
39 Bromodichloromethane	83		6.277	6.277	(1.131)		153153	20.0000	19.47
41 2-Chloroethylvinyl ether	63		6.573	6.573	(1.184)		7046	40.0000	37.04(M)
42 1,2-Dichloropropane	63		6.011	6.011	(1.083)		134169	20.0000	19.93
44 Dibromomethane	93		6.120	6.120	(1.103)		83709	20.0000	19.46
45 4-Methyl-2-Pentanone	43		6.854	6.854	(0.837)		288078	40.0000	41.20
46 cis-1,3-Dichloropropene	75		6.693	6.693	(1.206)		176588	20.0000	18.03
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		960016	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		445555	20.0000	20.50
50 Toluene	91		6.982	6.982	(0.853)		554230	20.0000	21.28
51 trans-1,3-Dichloropropene	75		7.199	7.199	(1.297)		143978	20.0000	17.64
52 2-Hexanone	43		7.593	7.593	(0.928)		190529	40.0000	39.13
53 1,1,2-Trichloroethane	83		7.357	7.357	(0.899)		107394	20.0000	19.82
54 1,3-Dichloropropane	76		7.499	7.499	(0.916)		226819	20.0000	20.49
55 Dibromochloromethane	129		7.694	7.694	(0.940)		128911	20.0000	20.05
56 Tetrachloroethene	164		7.458	7.458	(0.911)		133448	20.0000	21.03
57 1,2-Dibromoethane	107		7.784	7.784	(0.951)		132458	20.0000	19.81
58 1-Chlorohexane	55		8.197	8.197	(1.477)		111769	20.0000	20.80
59 Chlorobenzene	112		8.208	8.208	(1.003)		374064	20.0000	20.12
60 1,1,1,2-Tetrachloroethane	131		8.283	8.283	(1.012)		128313	20.0000	20.08
61 Ethylbenzene	106		8.305	8.305	(1.015)		179483	20.0000	20.75
62 m,p-Xylenes	106		8.410	8.410	(1.027)		421040	40.0000	41.14
63 o-Xylene	106		8.748	8.748	(1.069)		206194	20.0000	20.39
64 Styrene	104		8.763	8.763	(1.071)		318690	20.0000	19.86
66 Bromoform	173		8.920	8.920	(1.090)		81243	20.0000	18.72
67 Isopropylbenzene	105		9.062	9.062	(1.107)		516146	20.0000	21.25
68 1,1,2,2-Tetrachloroethane	83		9.329	9.329	(0.917)		178916	20.0000	19.34
\$ 69 4-Bromofluorobenzene	95		9.194	9.194	(1.123)		178335	20.0000	20.30
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		491623	50.0000	
71 1,2,3-Trichloropropane	75		9.362	9.362	(0.920)		151200	20.0000	18.58
73 n-Propylbenzene	91		9.411	9.411	(0.925)		527972	20.0000	20.47
74 Bromobenzene	156		9.317	9.317	(0.916)		165398	20.0000	19.93
75 1,3,5-Trimethylbenzene	105		9.561	9.561	(0.940)		338496	20.0000	19.13
76 2-Chlorotoluene	91		9.482	9.482	(0.932)		380446	20.0000	20.98
77 4-Chlorotoluene	91		9.576	9.576	(0.941)		415563	20.0000	20.71
78 tert-Butylbenzene	119		9.838	9.838	(0.967)		368922	20.0000	21.23
79 1,2,4-Trimethylbenzene	105		9.880	9.880	(0.971)		349187	20.0000	18.86
81 sec-Butylbenzene	105		10.022	10.022	(0.985)		457784	20.0000	20.77
82 p-Isopropyltoluene	119		10.146	10.146	(0.997)		348135	20.0000	18.85
83 1,3-Dichlorobenzene	146		10.116	10.116	(0.994)		280647	20.0000	19.92
84 1,4-Dichlorobenzene	146		10.191	10.191	(1.002)		292174	20.0000	19.45
87 n-Butylbenzene	91		10.491	10.491	(1.031)		319352	20.0000	20.20
88 1,2-Dichlorobenzene	146		10.506	10.506	(1.033)		281467	20.0000	19.92



89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	24061	20.0000	17.83
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	186288	20.0000	19.17



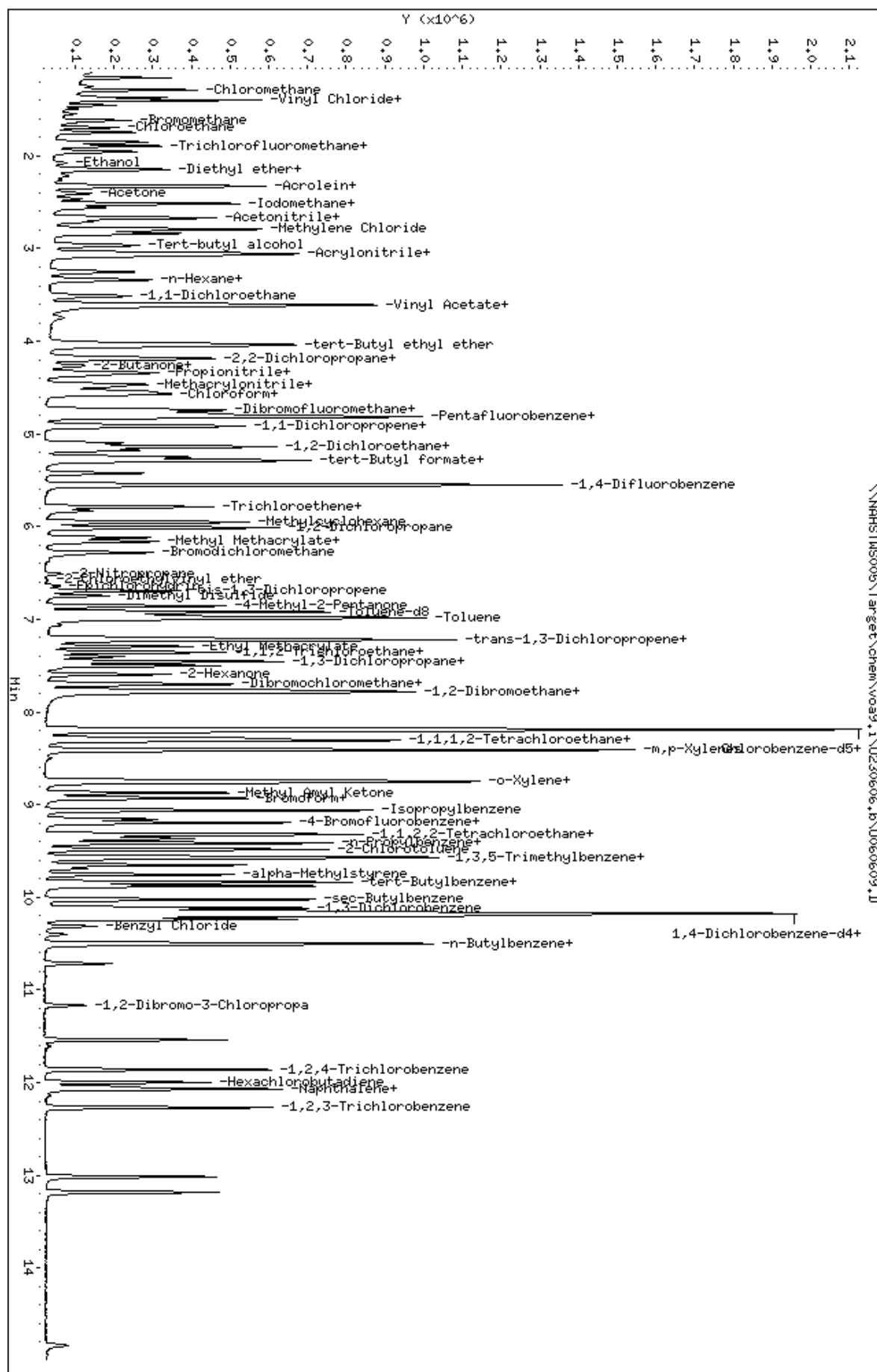
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Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	79518	20.0000	20.26
92 Naphthalene	128	12.069	12.069	(1.186)	445465	20.0000	19.73
93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	186329	20.0000	19.61
M 94 1,2-Dichloroethylene (total)	96				253674	40.0000	(a)
135 1,4-Dioxane	88	6.168	6.168	(1.282)	38808	400.000	279.28(M)
141 Cyclohexane	56	4.778	4.778	(0.993)	190495	20.0000	22.56
138 Freon TF	101	2.330	2.330	(0.484)	102379	20.0000	21.78
140 1,3-Butadiene	54	1.396	1.396	(0.290)	143212	20.0000	21.60
147 Methylcyclohexane	55	5.947	5.947	(1.072)	271418	20.0000	18.70
146 Methyl Acetate	43	2.708	2.708	(0.563)	109689	20.0000	18.61
148 Tert-Butyl alcohol	59	2.963	2.963	(0.616)	255911	400.000	392.79
149 Isopropyl Alcohol	45	2.558	2.558	(0.532)	166234	400.000	363.36
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	18573	20.0000	16.80(M)
12 Isobutyl Alcohol	43	5.288	5.288	(1.099)	360790	400.000	396.80(M)
13 Acetonitrile	39	2.667	2.667	(0.554)	140672	200.000	185.67
14 Allyl Chloride	41	2.667	2.667	(0.554)	339917	20.0000	18.70
25 Methacrylonitrile	41	4.493	4.493	(0.934)	82790	20.0000	20.02
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	116616	20.0000	19.38
4 Propionitrile	54	4.335	4.335	(0.901)	196157	200.000	193.97(a)
136 n-Hexane	57	3.338	3.338	(0.694)	131033	20.0000	22.86
194 Acetaldehyde	44	1.453	1.453	(0.302)	80793	80.0000	83.70(M)
131 Methyl Acrylate	55	4.365	4.365	(0.907)	140883	20.0000	19.03(M)
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	75368	20.0000	14.42(M)
23 Chloroprene	53	2.150	2.150	(0.447)	46564	20.0000	20.86(M)
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	174530	20.0000	19.03
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	336473	20.0000	17.80
167 Ethanol	45	2.075	2.075	(0.431)	33180	400.000	365.81
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	430916	20.0000	17.96
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	141914	20.0000	17.83
142 Tetrahydrofuran	42	4.542	4.542	(0.944)	48081	40.0000	37.45
156 Diisopropyl ether	45	3.619	3.619	(0.752)	362787	20.0000	18.59
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	598756	400.000	384.89
150 Allyl alcohol	57	3.338	3.338	(0.694)	131033	400.000	457.76
86 Benzyl Chloride	91	10.311	10.311	(1.260)	85763	20.0000	17.37
162 Butyl acrylate	55	8.733	8.733	(1.067)	214597	20.0000	18.89
139 Diethyl ether	59	2.139	2.139	(0.445)	88209	20.0000	18.65
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	70007	20.0000	16.56
134 Cyclohexanone	55	9.156	9.156	(0.900)	110447	400.000	362.37(a)
130 Ethyl Acetate	43	4.264	4.264	(0.886)	118985	20.0000	19.02(M)
189 n-Butyl acetate	43	7.705	7.705	(0.941)	210444	20.0000	19.25(M)
182 Epichlorohydrin	57	6.637	6.637	(1.196)	5384	80.0000	62.88

QC Flag Legend

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





\\NAHSTMS005\Target\chem\woa9.i\U230606.b\U060609.D

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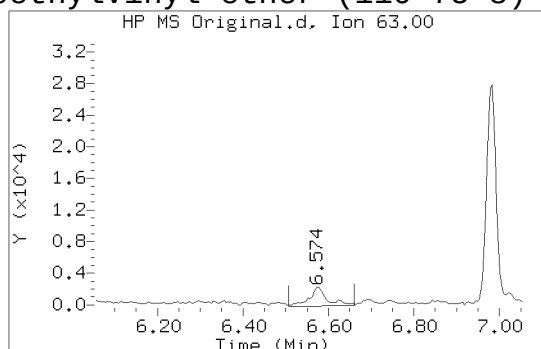
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2-Chloroethylvinyl ether (110-75-8)

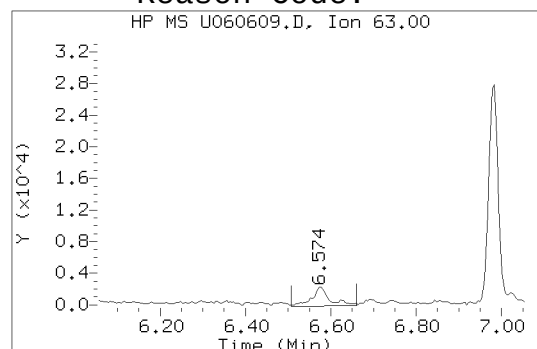
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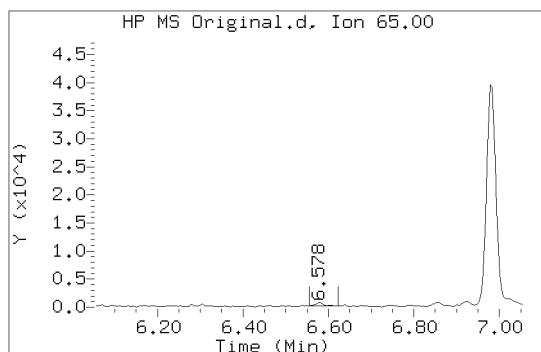
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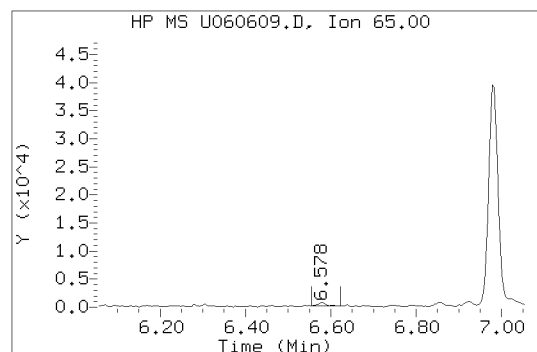
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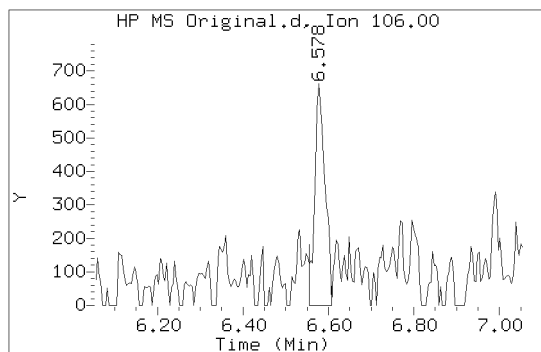
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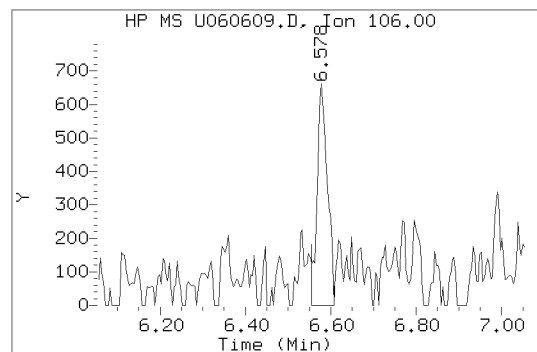
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AFTER

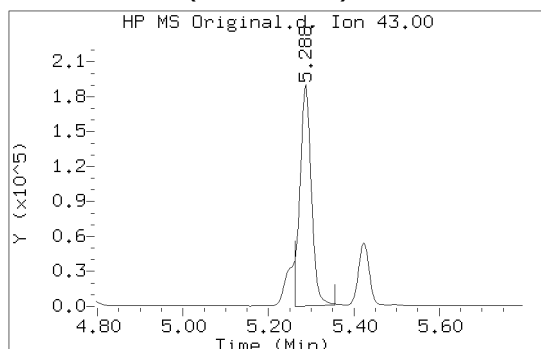
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Isobutyl Alcohol (78-83-1)

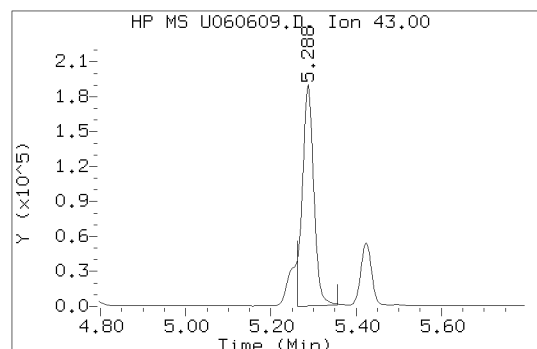
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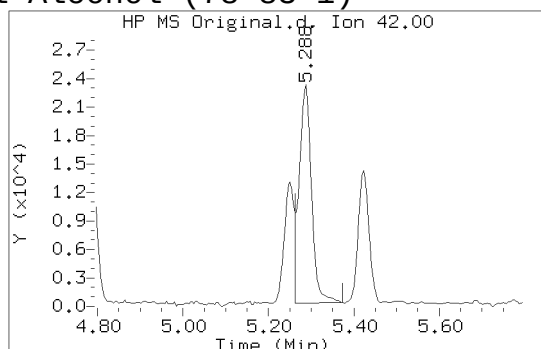


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LabSampID : VSTD020

Isobutyl Alcohol (78-83-1)

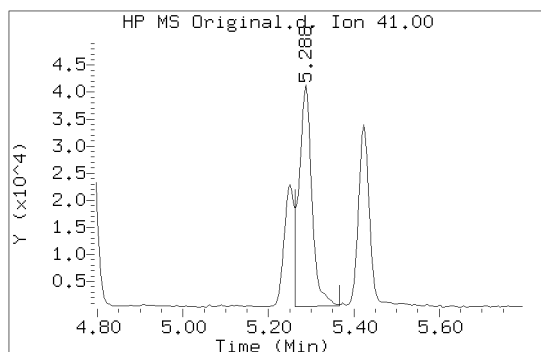
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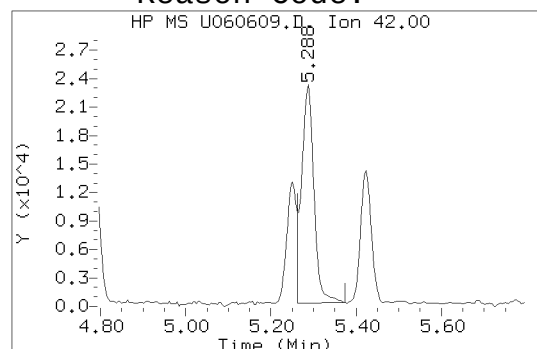
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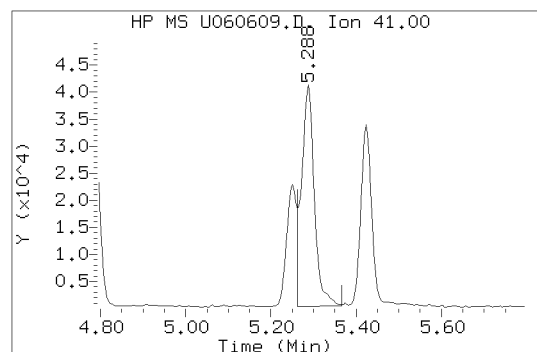
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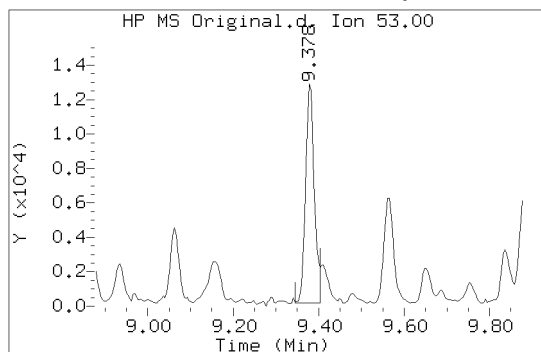
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trans-1,4-Dichloro-2-butene (110-57-6)

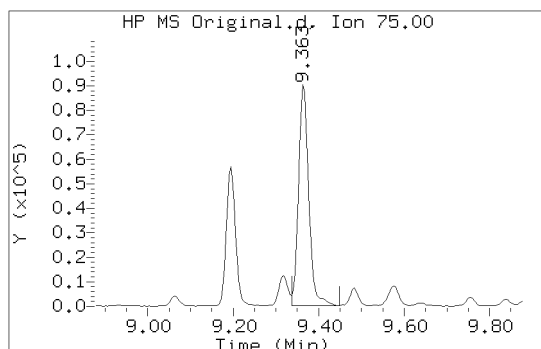
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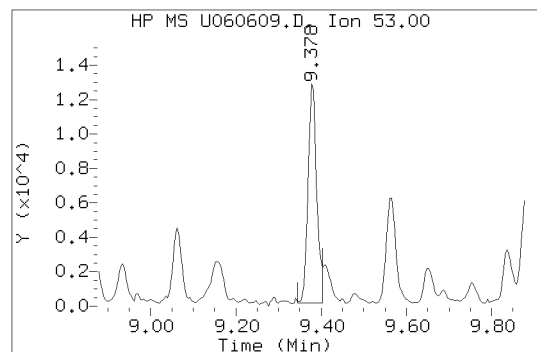
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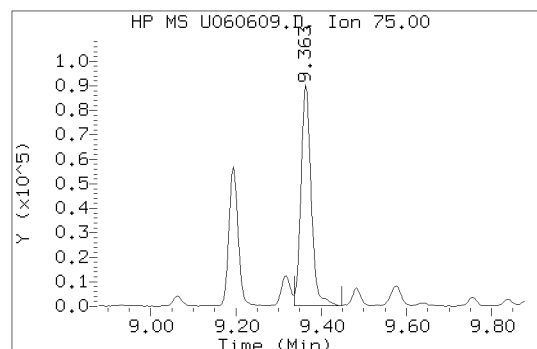
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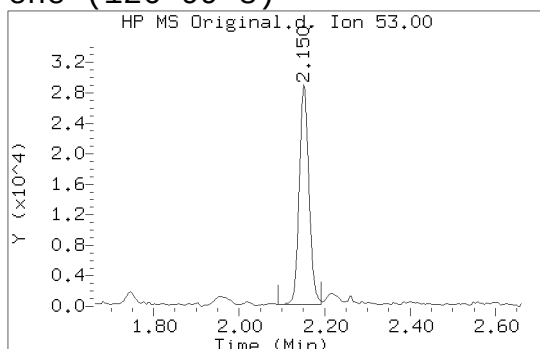
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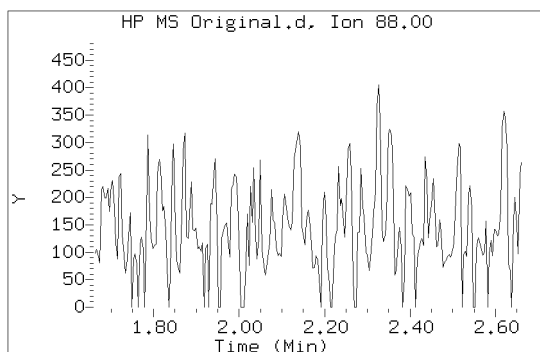
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LabSampID : VSTD020

Chloroprene (126-99-8)**BEFORE**

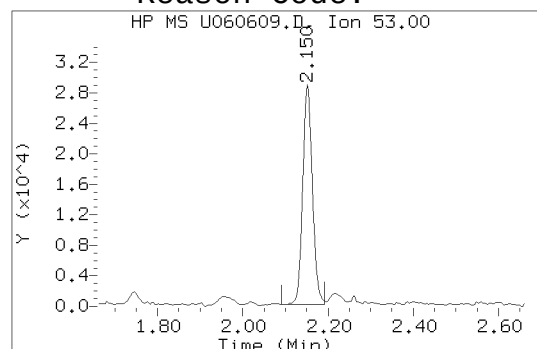
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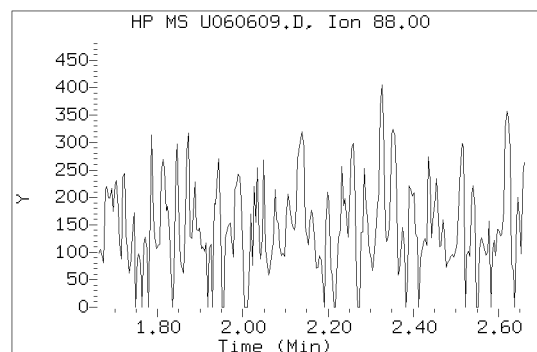
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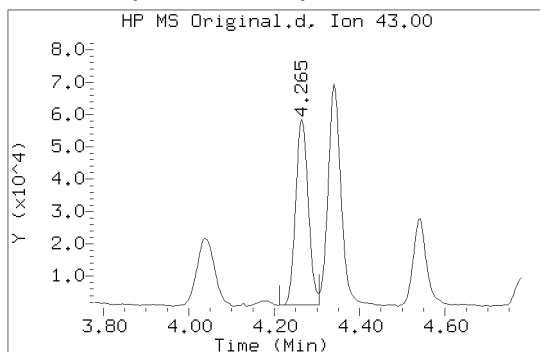
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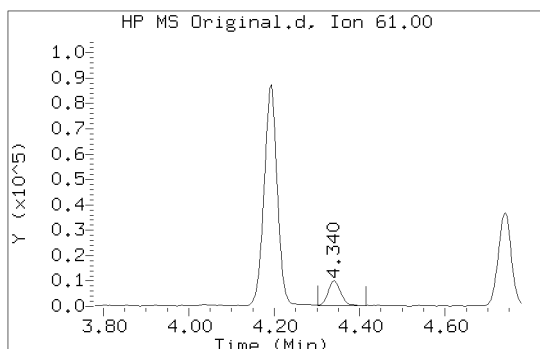
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**Ethyl Acetate (141-78-6)****BEFORE**

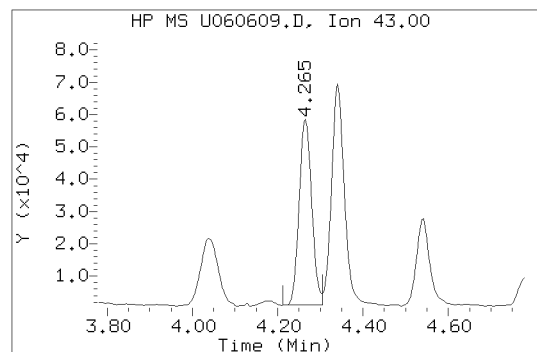
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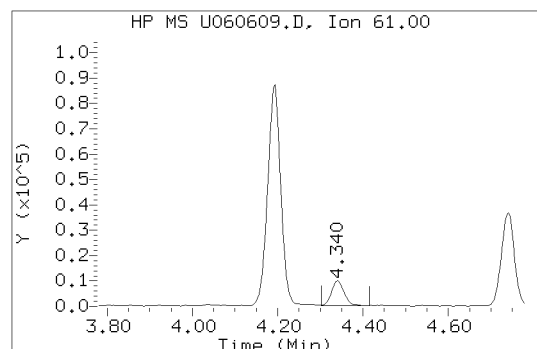
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**Reason Code:****AFTER**

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**AFTER**

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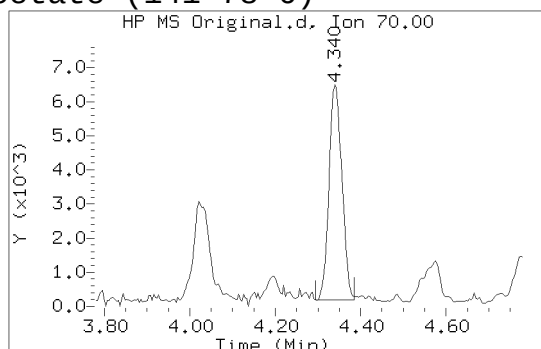


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LabSampID : VSTD020

Ethyl Acetate (141-78-6)

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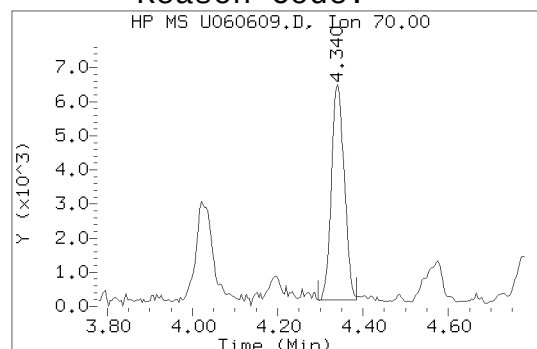
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AFTER

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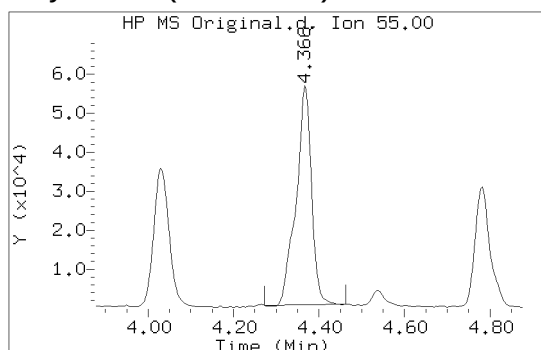
Reason Code:



Methyl Acrylate (96-33-3)

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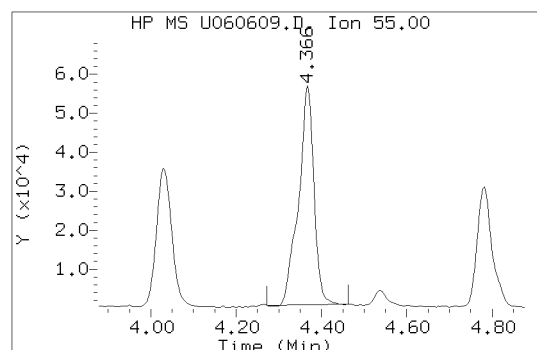
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AFTER

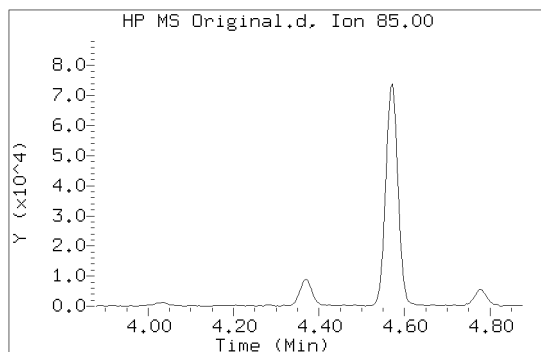
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13-Jun-2023
13:00
linh
pham

Reason Code:



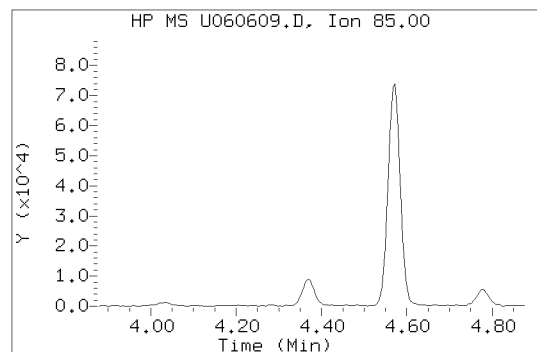
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08-Jun-2023
14:56
linh
pham



AFTER

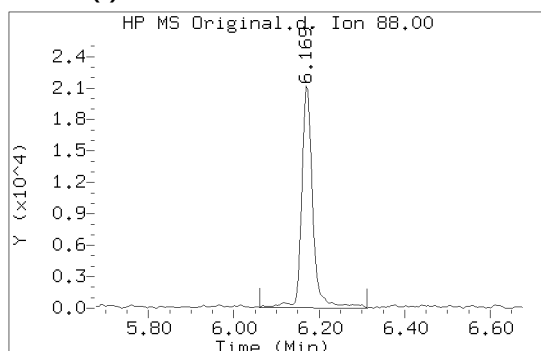
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pham



1,4-Dioxane ()

BEFORE

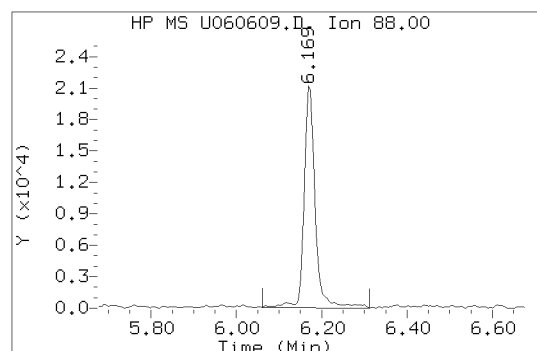
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AFTER

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13-Jun-2023
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linh
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Reason Code:

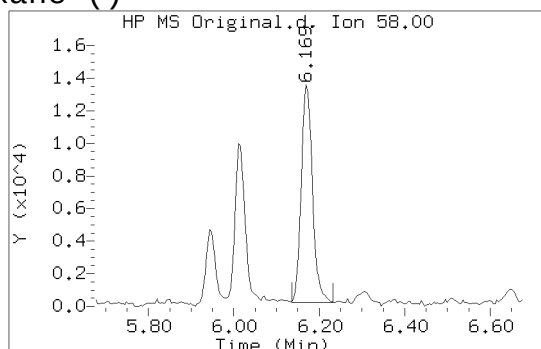


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 Inj Date : 06-JUN-2023 14:13
 InstruID : VOA9.i
 LabSampID : VSTD020

1,4-Dioxane ()

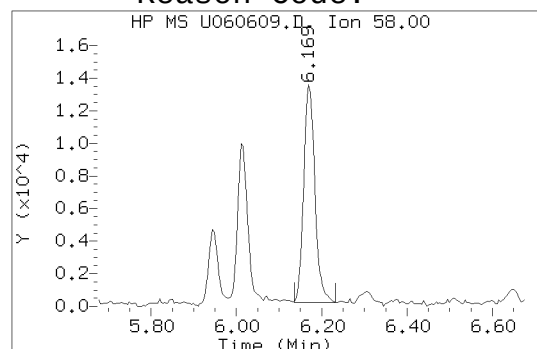
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AFTER

MASS
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13-Jun-2023
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pham

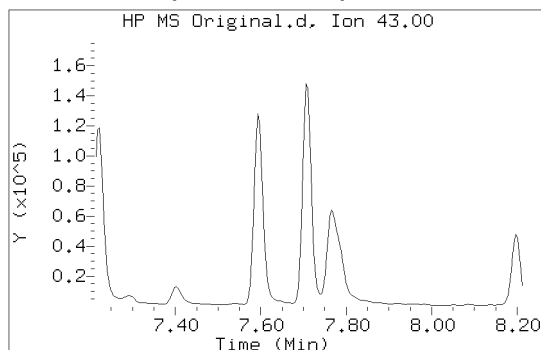


Reason Code:

n-Butyl acetate (123-86-4)

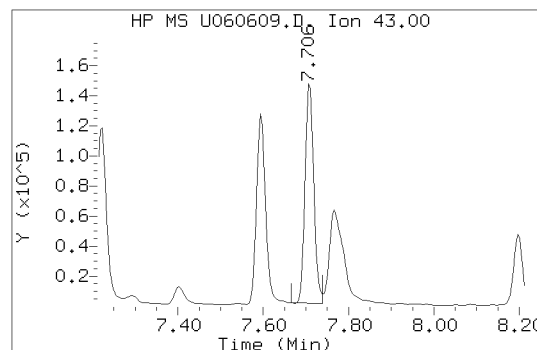
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08-Jun-2023
14:56
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AFTER

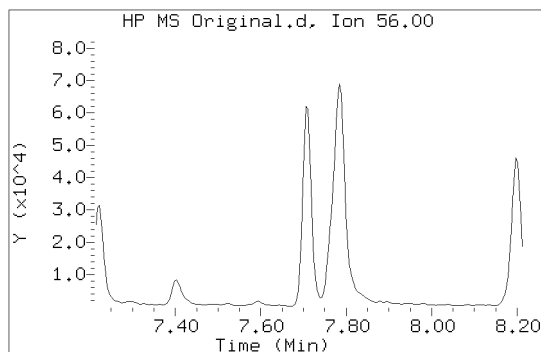
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Reason Code:

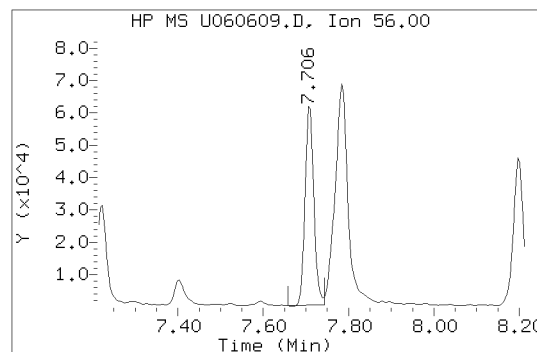
BEFORE

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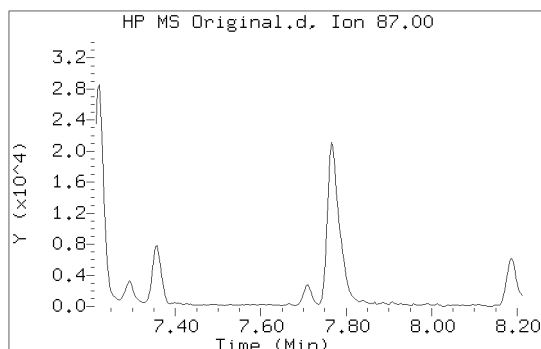
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13:00
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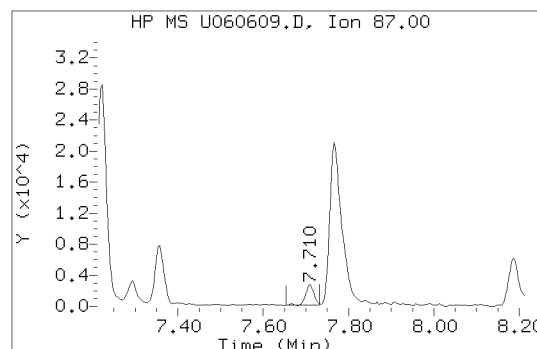
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AFTER

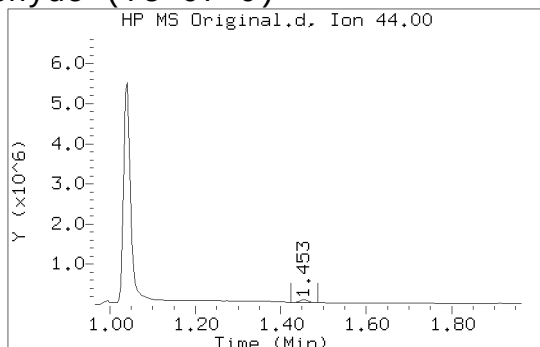
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13:00
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pham



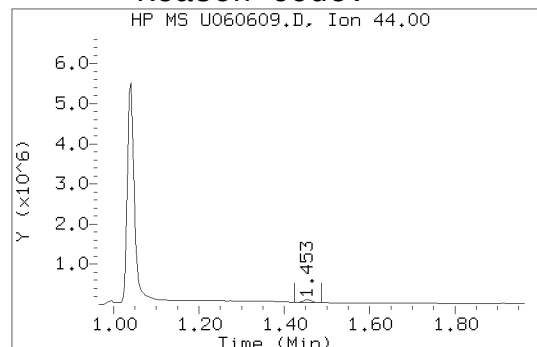
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InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)**BEFORE**

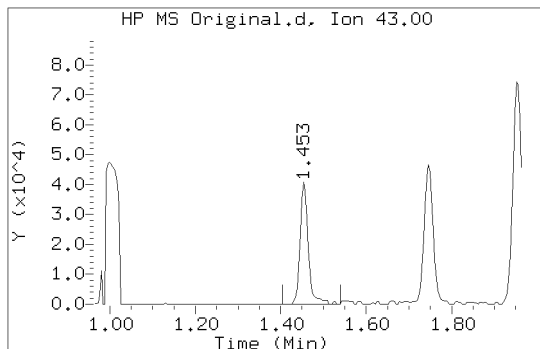
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HEIGHT
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08-Jun-2023
14:56
linh
pham

**AFTER**

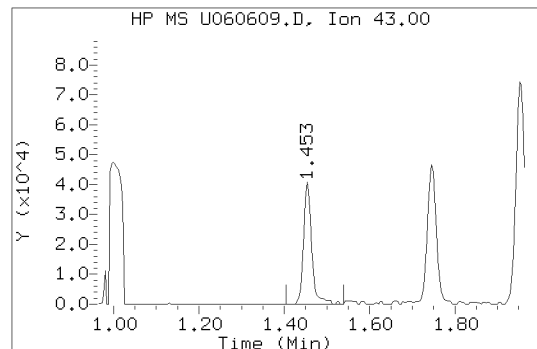
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HEIGHT
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13-Jun-2023
13:00
linh
pham

**BEFORE**

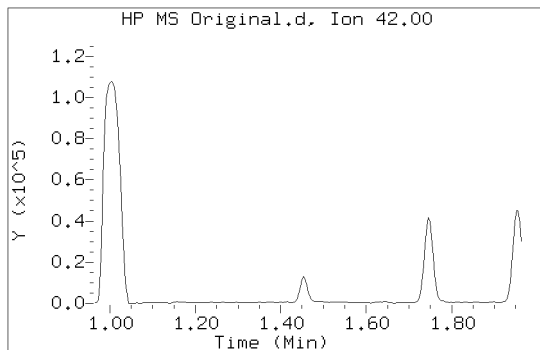
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HEIGHT
40760
08-Jun-2023
14:56
linh
pham

**AFTER**

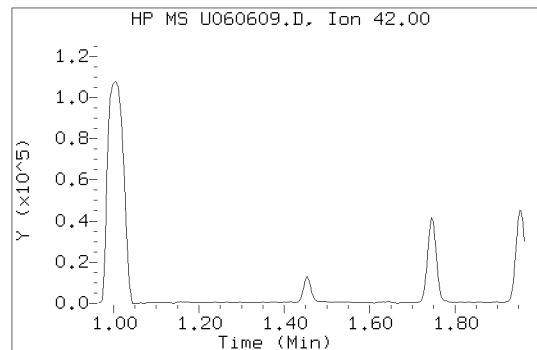
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54539
HEIGHT
40760
13-Jun-2023
13:00
linh
pham

**BEFORE**

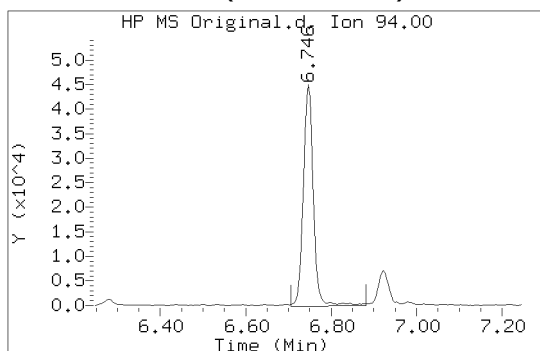
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14:56
linh
pham

**AFTER**

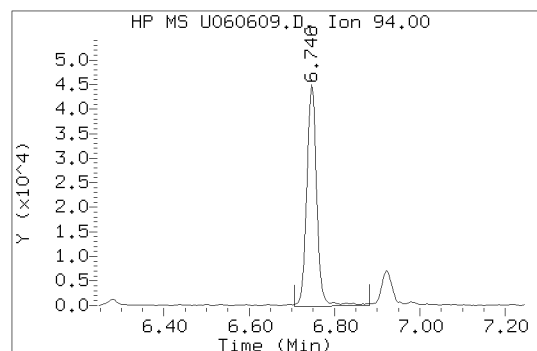
MASS
42
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**Dimethyl Disulfide (624-92-0)****BEFORE**

MASS
94
AREA
75368
HEIGHT
45120
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
94
AREA
75368
HEIGHT
45120
13-Jun-2023
13:00
linh
pham

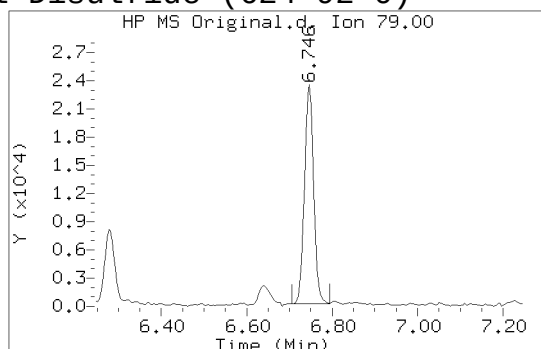


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Inj Date : 06-JUN-2023 14:13
InstruID : VOA9.i
LabSampID : VSTD020

Dimethyl Disulfide (624-92-0)

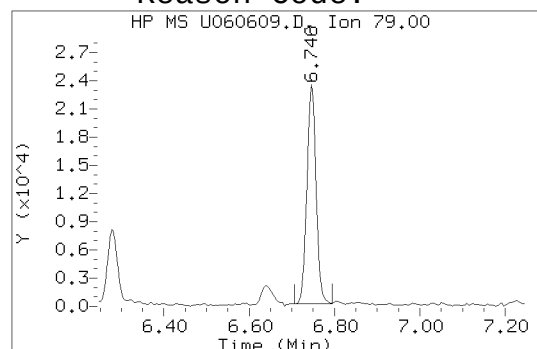
BEFORE

MASS
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AREA
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HEIGHT
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08-Jun-2023
14:56
linh
pham



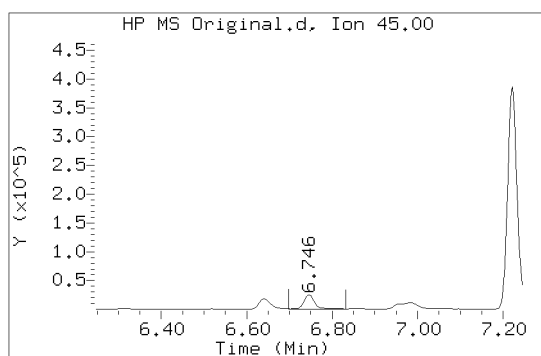
AFTER

MASS
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13-Jun-2023
13:00
linh



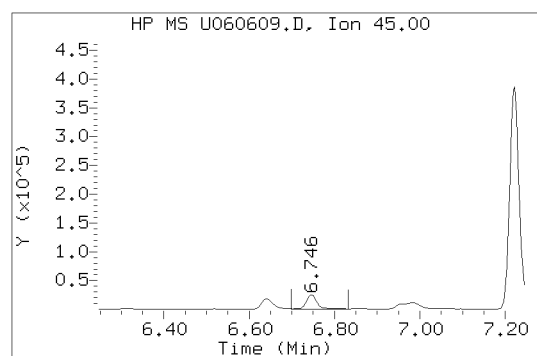
BEFORE

MASS
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AREA
45369
HEIGHT
24788
08-Jun-2023
14:56
linh
pham



AFTER

MASS
45
AREA
45369
HEIGHT
24788
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060610.D Page 1
 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060610.D
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 Inj Date : 06-JUN-2023 14:35
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD050;VSTD050;1;7;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 14:13 Cal File: U060609.D
 Als bottle: 11 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: 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						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.819	4.819	(1.000)		676524	50.0000	
2 Dichlorodifluoromethane	85		1.168	1.168	(0.242)		301782	50.0000	48.28
3 Chloromethane	50		1.303	1.303	(0.270)		533277	50.0000	52.32
5 Vinyl Chloride	62		1.381	1.381	(0.287)		371826	50.0000	51.96
6 Bromomethane	94		1.625	1.625	(0.337)		189385	50.0000	51.52
7 Chloroethane	64		1.704	1.704	(0.354)		235929	50.0000	48.94
8 Trichlorofluoromethane	101		1.903	1.903	(0.395)		408187	50.0000	49.66
9 Acrolein	56		2.270	2.270	(0.471)		34711	100.000	96.66
10 Acetone	43		2.416	2.416	(0.501)		245967	100.000	106.19
11 1,1-Dichloroethene	96		2.337	2.337	(0.485)		253953	50.0000	49.45
15 Iodomethane	142		2.476	2.476	(0.514)		311144	100.000	80.01
16 Acrylonitrile	53		3.072	3.072	(0.638)		238722	100.000	95.15
17 Methylene Chloride	84		2.798	2.798	(0.581)		313459	50.0000	50.82
18 Methyl tert-butyl ether	73		3.087	3.087	(0.641)		751017	50.0000	47.69
19 Carbon Disulfide	76		2.525	2.525	(0.524)		1424175	100.000	103.74
20 trans-1,2-Dichloroethene	96		3.065	3.065	(0.636)		287983	50.0000	51.56
21 Vinyl Acetate	43		3.612	3.612	(0.750)		1688425	100.000	99.18
22 1,1-Dichloroethane	63		3.522	3.522	(0.731)		510453	50.0000	48.09
24 2-Butanone	43		4.272	4.272	(0.886)		284571	100.000	92.25
26 2,2-Dichloropropane	77		4.185	4.185	(0.869)		344673	50.0000	49.12



27 cis-1,2-Dichloroethene	96	4.200	4.200 (0.872)	330459	50.0000	49.46
28 Chloroform	83	4.579	4.579 (0.950)	553969	50.0000	50.15

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060610.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.474	4.474	(0.928)	180688	50.0000	48.34
\$ 30 Dibromofluoromethane	113	4.752	4.752	(0.986)	271537	50.0000	47.80
31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	427820	50.0000	50.81
32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	378122	50.0000	50.72
33 1,2-Dichloroethane	62	5.179	5.179	(0.932)	428044	50.0000	48.61
34 Carbon Tetrachloride	117	4.913	4.913	(0.884)	352021	50.0000	51.40
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	303470	50.0000	49.38
* 36 1,4-Difluorobenzene	114	5.557	5.557	(1.000)	1017200	50.0000	
37 Benzene	78	5.141	5.141	(0.925)	1252175	50.0000	51.08
38 Trichloroethene	130	5.790	5.790	(1.042)	345905	50.0000	48.68
39 Bromodichloromethane	83	6.281	6.281	(1.130)	388938	50.0000	50.86
41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	17983	100.000	97.24(M)
42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	326747	50.0000	49.92
44 Dibromomethane	93	6.124	6.124	(1.102)	203401	50.0000	48.64
45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	697558	100.000	98.05
46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	477156	50.0000	46.71
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	976881	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1047714	50.0000	47.38(M)
50 Toluene	91	6.982	6.982	(0.853)	1342745	50.0000	50.67
51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	395477	50.0000	46.15
52 2-Hexanone	43	7.593	7.593	(0.928)	463757	100.000	93.61
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	255402	50.0000	46.32
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	550839	50.0000	48.90
55 Dibromochloromethane	129	7.694	7.694	(0.940)	344538	50.0000	52.67
56 Tetrachloroethene	164	7.458	7.458	(0.911)	304966	50.0000	47.24
57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	322319	50.0000	47.39
58 1-Chlorohexane	55	8.197	8.197	(1.475)	234412	50.0000	44.87
59 Chlorobenzene	112	8.212	8.212	(1.003)	916475	50.0000	48.46
60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	327010	50.0000	50.31
61 Ethylbenzene	106	8.309	8.309	(1.015)	443008	50.0000	50.33
62 m,p-Xylenes	106	8.410	8.410	(1.027)	1096202	100.000	105.27
63 o-Xylene	106	8.748	8.748	(1.069)	532694	50.0000	51.78
64 Styrene	104	8.763	8.763	(1.071)	873807	50.0000	53.52
66 Bromoform	173	8.920	8.920	(1.090)	227224	50.0000	51.46
67 Isopropylbenzene	105	9.063	9.063	(1.107)	1269616	50.0000	51.38
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	438008	50.0000	45.99
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	425877	50.0000	48.86
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	506267	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	396260	50.0000	47.29
73 n-Propylbenzene	91	9.411	9.411	(0.925)	1350525	50.0000	50.85
74 Bromobenzene	156	9.317	9.317	(0.916)	406120	50.0000	47.54
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	873885	50.0000	47.96
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	927058	50.0000	49.66
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1031057	50.0000	49.89
78 tert-Butylbenzene	119	9.838	9.838	(0.967)	874077	50.0000	48.84
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	861955	50.0000	45.21
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	1105877	50.0000	48.73
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	895378	50.0000	47.09
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	679277	50.0000	46.82
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	709983	50.0000	45.89
87 n-Butylbenzene	91	10.491	10.491	(1.031)	741855	50.0000	45.58
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	681773	50.0000	46.86



89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	66094	50.0000	47.56
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	468840	50.0000	46.85



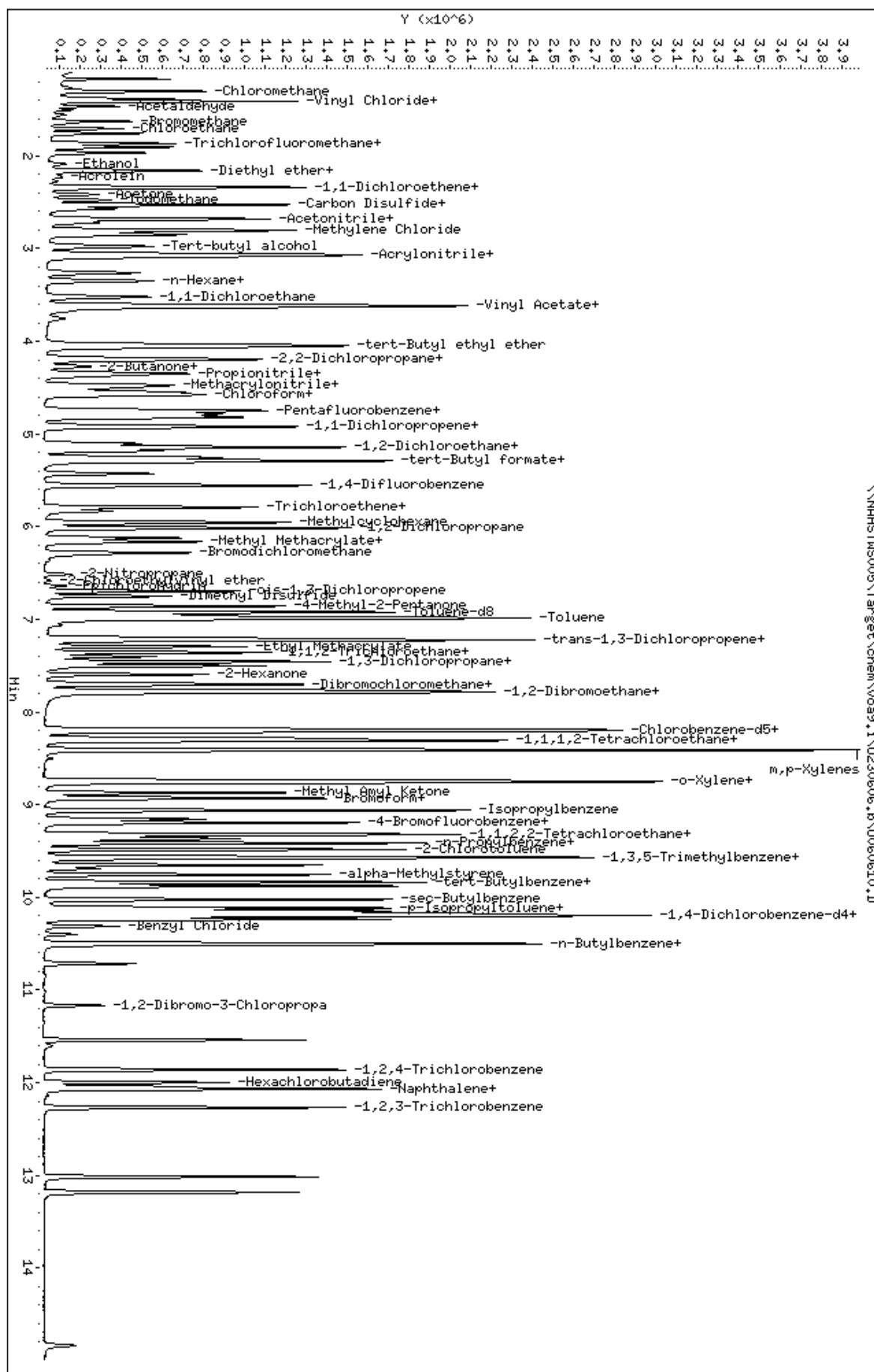
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Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	174158	50.0000	43.10
92 Naphthalene	128	12.065	12.065	(1.186)	1175644	50.0000	50.58
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	463613	50.0000	47.39
M 94 1,2-Dichloroethylene (total)	96				618442	100.000	(a)
135 1,4-Dioxane	88	6.172	6.172	(1.281)	89225	1000.00	664.21
141 Cyclohexane	56	4.785	4.785	(0.993)	384146	50.0000	46.29
138 Freon TF	101	2.341	2.341	(0.486)	217639	50.0000	47.90
140 1,3-Butadiene	54	1.408	1.408	(0.292)	329617	50.0000	51.44
147 Methylcyclohexane	55	5.951	5.951	(1.071)	649753	50.0000	46.04
146 Methyl Acetate	43	2.720	2.720	(0.564)	254836	50.0000	44.73
148 Tert-Butyl alcohol	59	2.975	2.975	(0.617)	592187	1000.00	947.12
149 Isopropyl Alcohol	45	2.570	2.570	(0.533)	395875	1000.00	895.11
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	53071	50.0000	47.18(M)
12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	891975	1000.00	1014.77(M)
13 Acetonitrile	39	2.678	2.678	(0.556)	355989	500.000	486.02
14 Allyl Chloride	41	2.678	2.678	(0.556)	838850	50.0000	47.75
25 Methacrylonitrile	41	4.500	4.500	(0.934)	196618	50.0000	49.19
40 Methyl Methacrylate	41	6.161	6.161	(1.278)	297279	50.0000	51.10
4 Propionitrile	54	4.343	4.343	(0.901)	467472	500.000	478.18
136 n-Hexane	57	3.350	3.350	(0.695)	256401	50.0000	45.49
194 Acetaldehyde	44	1.464	1.464	(0.304)	182837	200.000	195.95(M)
131 Methyl Acrylate	55	4.377	4.377	(0.908)	350463	50.0000	48.98(M)
200 Dimethyl Disulfide	94	6.750	6.750	(0.825)	275143	50.0000	38.98
23 Chloroprene	53	2.165	2.165	(0.449)	103984	50.0000	48.19(M)
49 Ethyl Methacrylate	69	7.293	7.293	(1.312)	443431	50.0000	49.73
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	871855	50.0000	44.80
167 Ethanol	45	2.090	2.090	(0.434)	83818	1000.00	992.72
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	1102255	50.0000	44.63
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	398013	50.0000	42.48
142 Tetrahydrofuran	42	4.549	4.549	(0.944)	124830	100.000	104.57
156 Diisopropyl ether	45	3.627	3.627	(0.753)	905553	50.0000	48.00
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.299)	1360403	1000.00	899.38
150 Allyl alcohol	57	3.350	3.350	(0.695)	256401	1000.00	910.24
86 Benzyl Chloride	91	10.311	10.311	(1.260)	234906	50.0000	40.89
162 Butyl acrylate	55	8.733	8.733	(1.067)	552381	50.0000	47.80
139 Diethyl ether	59	2.150	2.150	(0.446)	220811	50.0000	48.30
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	214955	50.0000	44.70
134 Cyclohexanone	55	9.156	9.156	(0.900)	291143	1000.00	927.60
130 Ethyl Acetate	43	4.272	4.272	(0.886)	275065	50.0000	45.48(M)
189 n-Butyl acetate	43	7.709	7.709	(0.942)	537633	50.0000	48.33(M)
182 Epichlorohydrin	57	6.637	6.637	(1.194)	17348	200.000	179.78

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\w0a9.i\U230606.b\U060610.D
 Date: 06-JUN-2023 14:35
 Client ID: WSTD050
 Sample Info: WSTD050;WSTD050;117;
 Purge Volume: 5.0
 Column phase: DB624

Instrument: W0A9.i
 Operator: PC
 Column diameter: 0.18

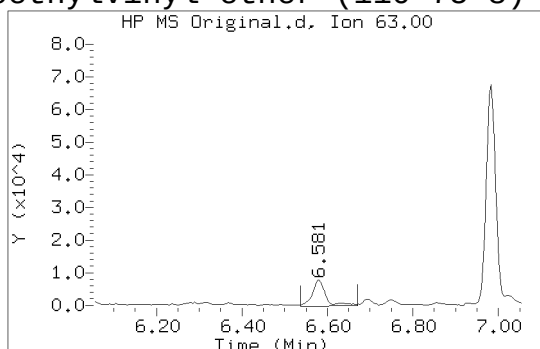


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060610.D
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

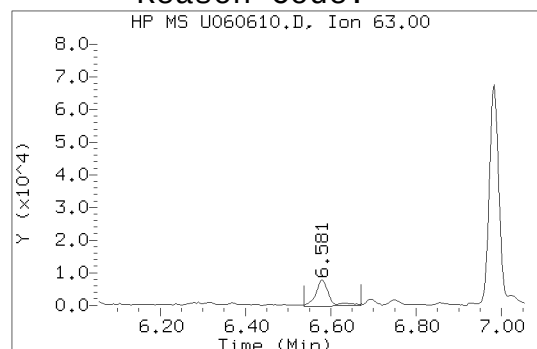
BEFORE

MASS
63
AREA
17983
HEIGHT
8031
08-Jun-2023
14:56
linh
pham



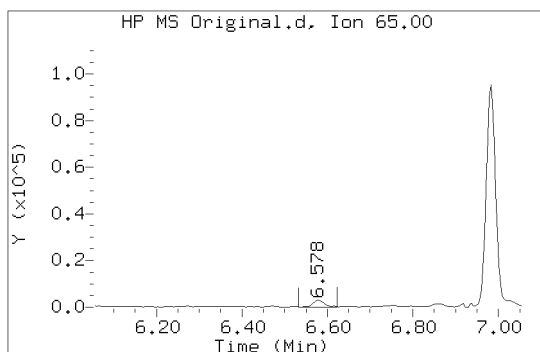
AFTER

MASS
63
AREA
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HEIGHT
8031
13-Jun-2023
13:00
linh
pham



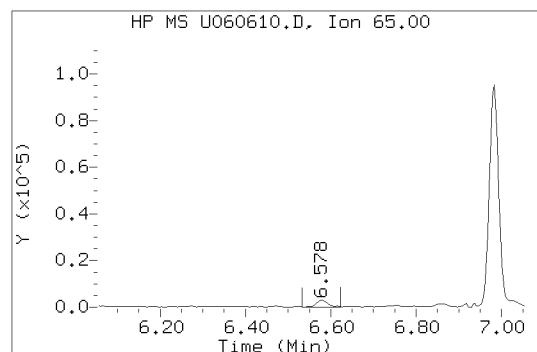
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MASS
65
AREA
5137
HEIGHT
2882
08-Jun-2023
14:56
linh
pham



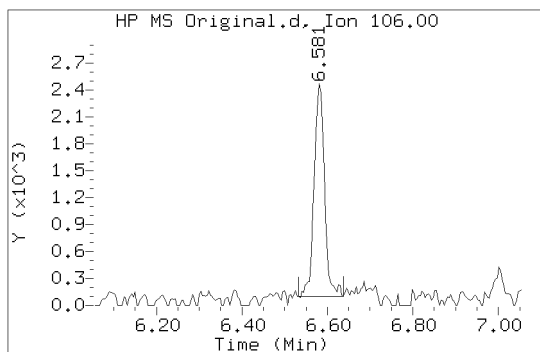
AFTER

MASS
65
AREA
5137
HEIGHT
2882
13-Jun-2023
13:00
linh
pham



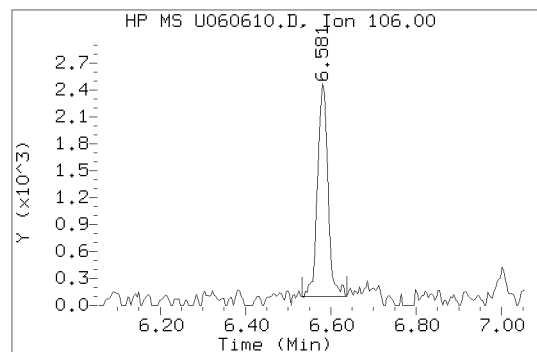
BEFORE

MASS
106
AREA
4026
HEIGHT
2370
08-Jun-2023
14:56
linh
pham



AFTER

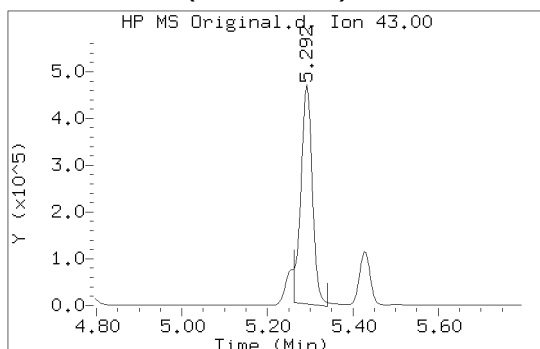
MASS
106
AREA
4026
HEIGHT
2370
13-Jun-2023
13:00
linh
pham



Isobutyl Alcohol (78-83-1)

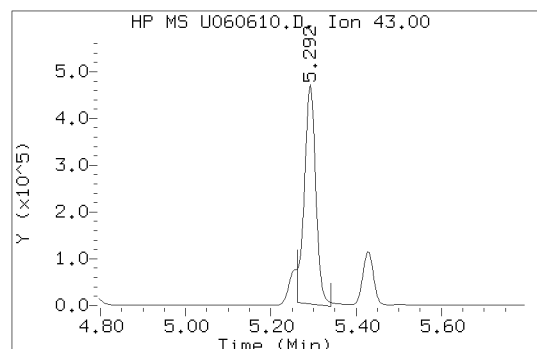
BEFORE

MASS
43
AREA
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HEIGHT
468494
08-Jun-2023
14:56
linh
pham



AFTER

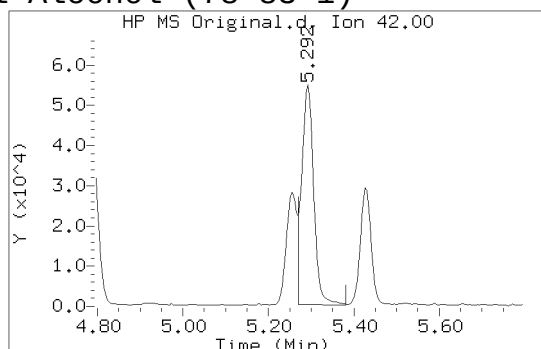
MASS
43
AREA
891975
HEIGHT
468494
13-Jun-2023
13:00
linh
pham



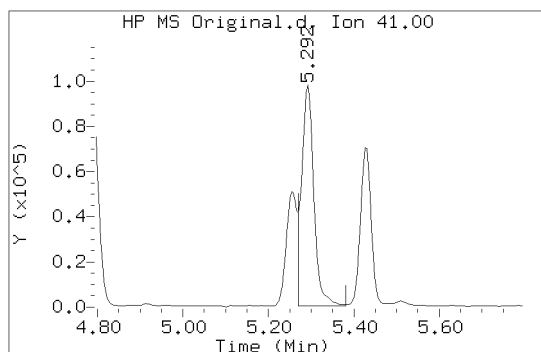
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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Isobutyl Alcohol (78-83-1)**BEFORE**

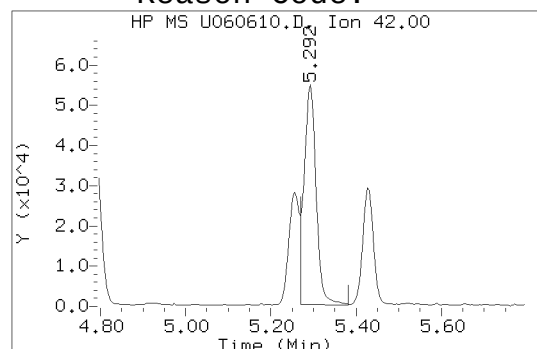
MASS
42
AREA
109693
HEIGHT
54695
08-Jun-2023
14:56
linh

**BEFORE**

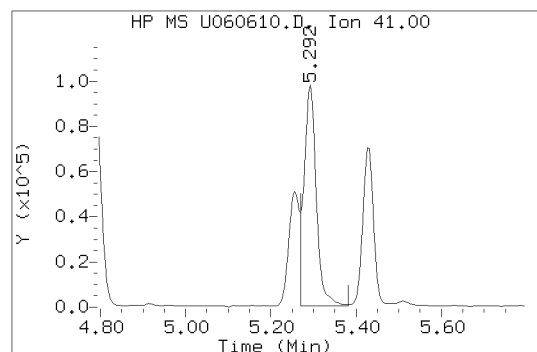
MASS
41
AREA
200117
HEIGHT
97881
08-Jun-2023
14:56
linh
pham

**AFTER**

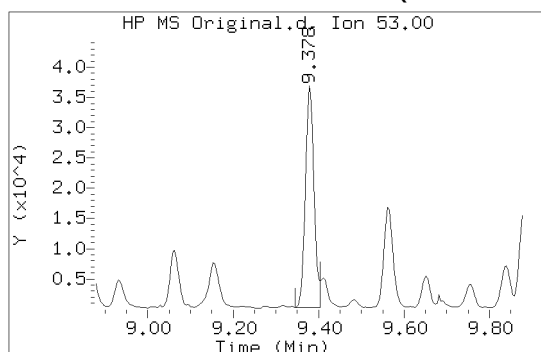
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42
AREA
109693
HEIGHT
54695
13-Jun-2023
13:00
linh

**AFTER**

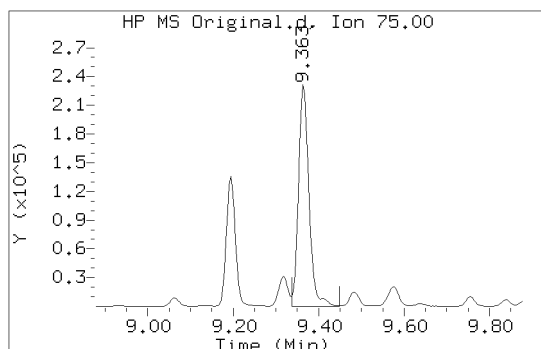
MASS
41
AREA
200117
HEIGHT
97881
13-Jun-2023
13:00
linh
pham

**Reason Code:****trans-1,4-Dichloro-2-butene (110-57-6)****BEFORE**

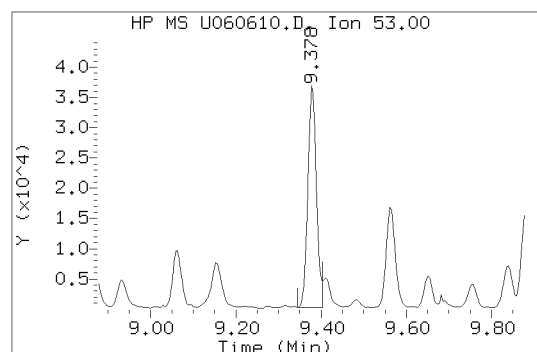
MASS
53
AREA
53071
HEIGHT
36577
08-Jun-2023
14:56
linh
pham

**BEFORE**

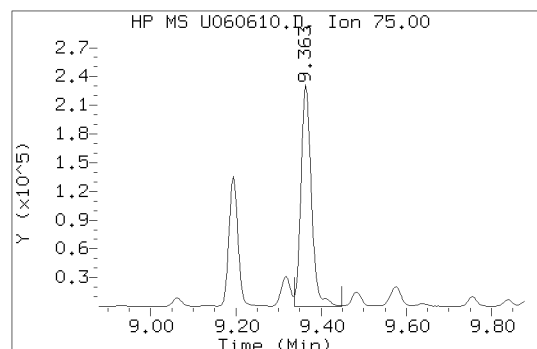
MASS
75
AREA
396260
HEIGHT
231235
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
53
AREA
53071
HEIGHT
36577
13-Jun-2023
13:00
linh
pham

**AFTER**

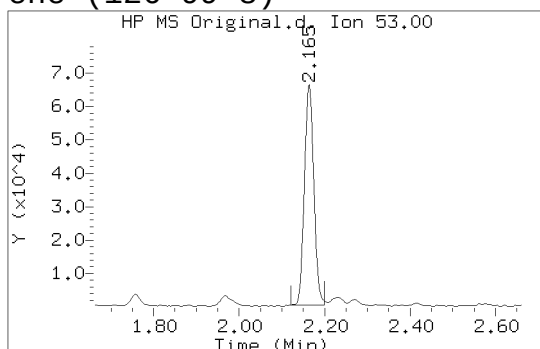
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75
AREA
396260
HEIGHT
231235
13-Jun-2023
13:00
linh
pham

**Reason Code:**

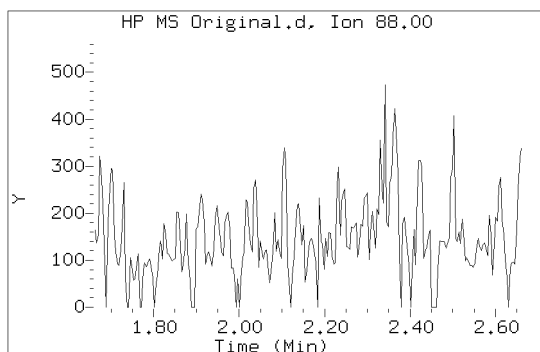
Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230606.b\\U060610.D
Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)**BEFORE**

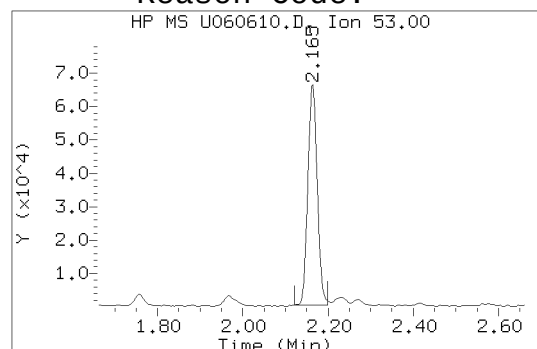
MASS
53
AREA
103984
HEIGHT
65956
08-Jun-2023
14:56
linh

**BEFORE**

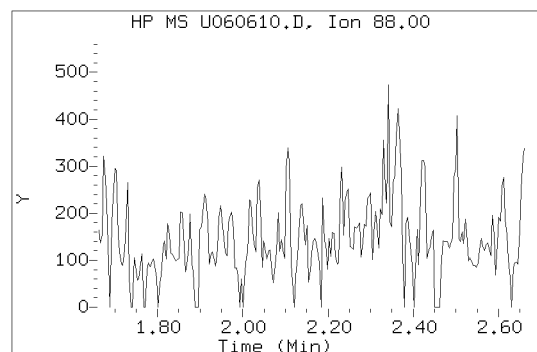
MASS
88
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

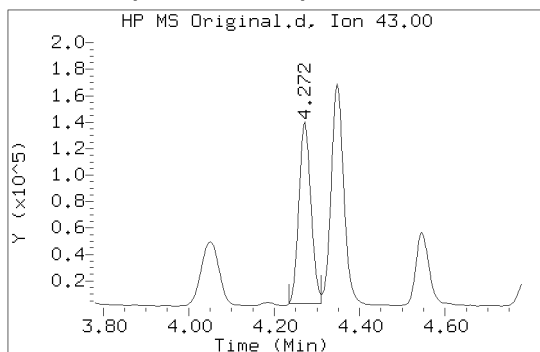
MASS
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AREA
103984
HEIGHT
65956
13-Jun-2023
13:00
linh

**AFTER**

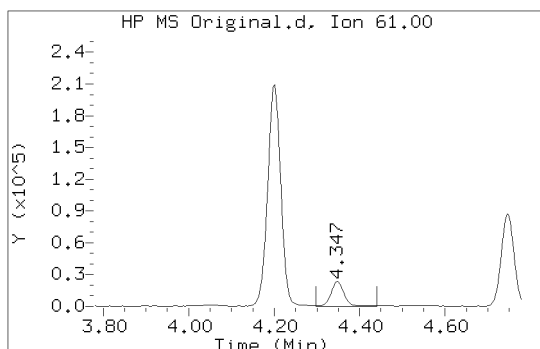
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham

**Ethyl Acetate (141-78-6)****BEFORE**

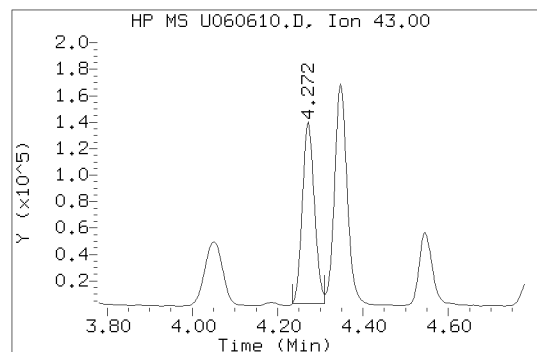
MASS
43
AREA
275065
HEIGHT
137464
08-Jun-2023
14:56
linh
pham

**BEFORE**

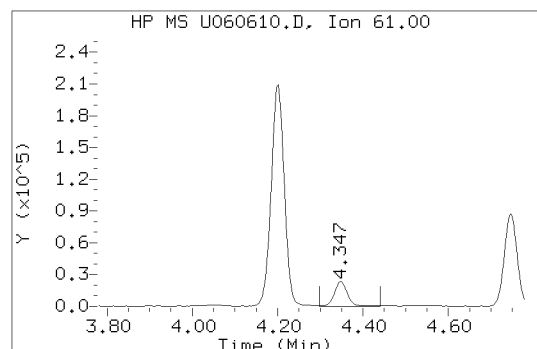
MASS
61
AREA
48522
HEIGHT
23550
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
43
AREA
275065
HEIGHT
137464
13-Jun-2023
13:00
linh
pham

**AFTER**

MASS
61
AREA
48522
HEIGHT
23550
13-Jun-2023
13:00
linh
pham

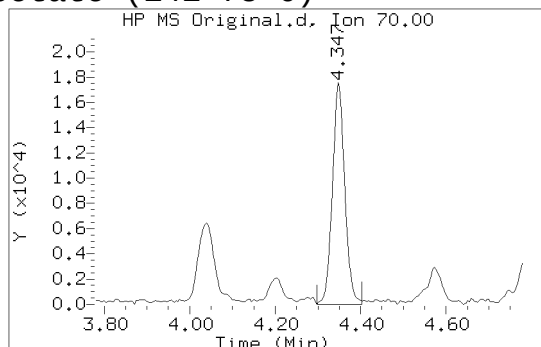


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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

BEFORE

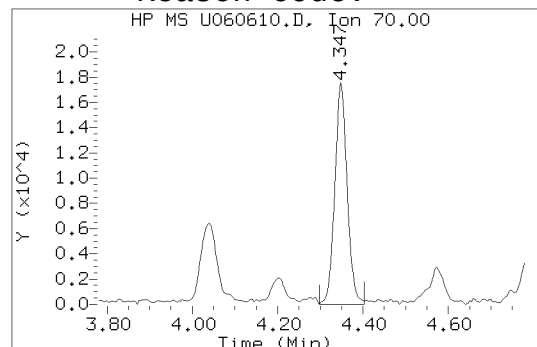
MASS
70
AREA
35210
HEIGHT
17560
08-Jun-2023
14:56
linh
pham



AFTER

MASS
70
AREA
35210
HEIGHT
17560
13-Jun-2023
13:00
linh
pham

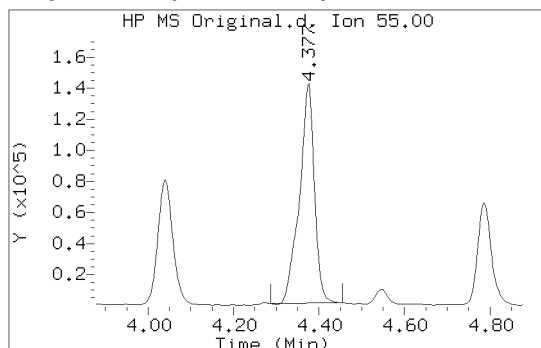
Reason Code:



Methyl Acrylate (96-33-3)

BEFORE

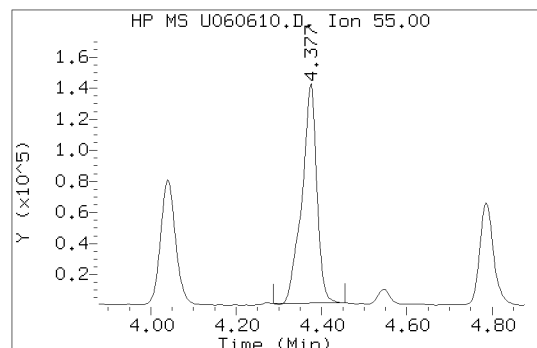
MASS
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AREA
350463
HEIGHT
141367
08-Jun-2023
14:56
linh
pham



AFTER

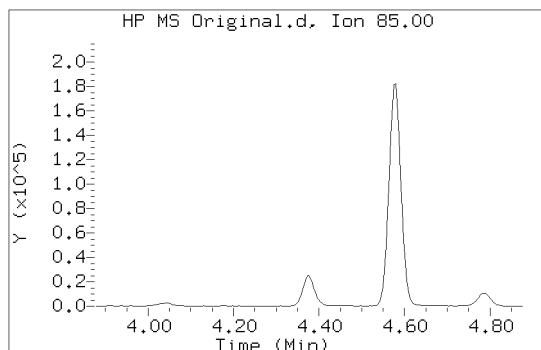
MASS
55
AREA
350463
HEIGHT
141367
13-Jun-2023
13:00
linh
pham

Reason Code:



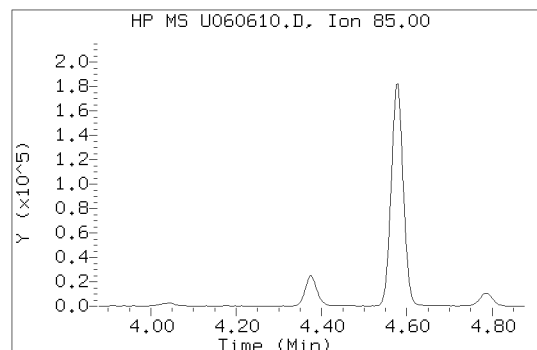
BEFORE

MASS
85
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

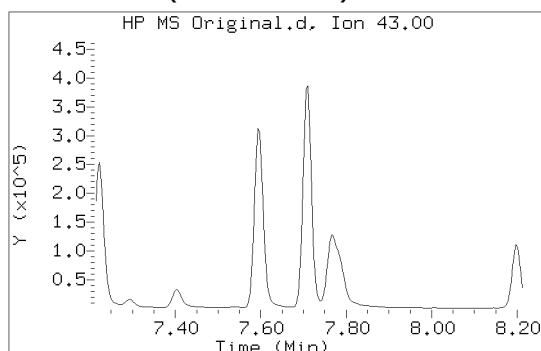
MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham



n-Butyl acetate (123-86-4)

BEFORE

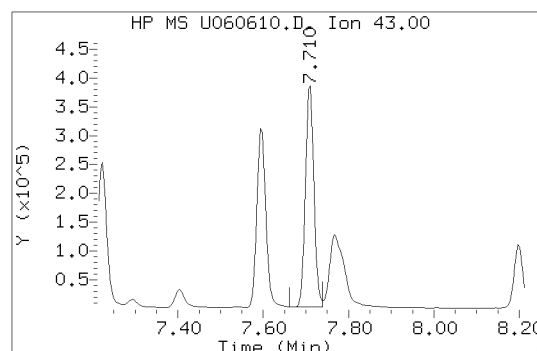
MASS
43
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
43
AREA
537633
HEIGHT
383148
13-Jun-2023
13:00
linh
pham

Reason Code:

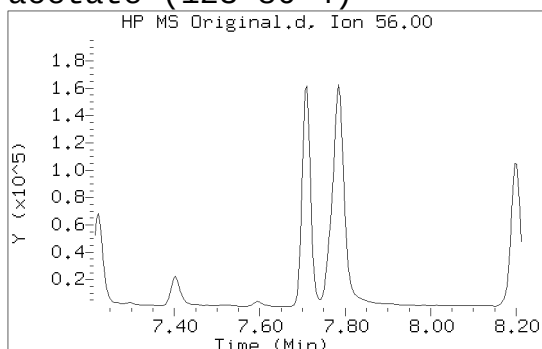


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Inj Date : 06-JUN-2023 14:35
InstruID : VOA9.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

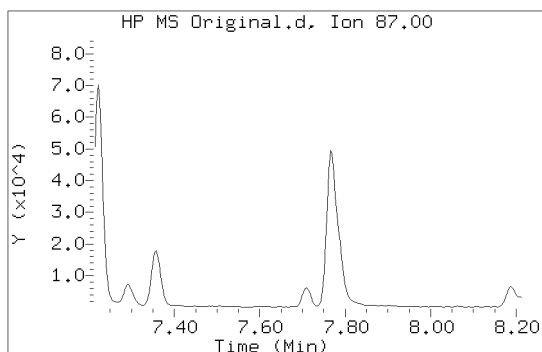
BEFORE

MASS
56
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh



BEFORE

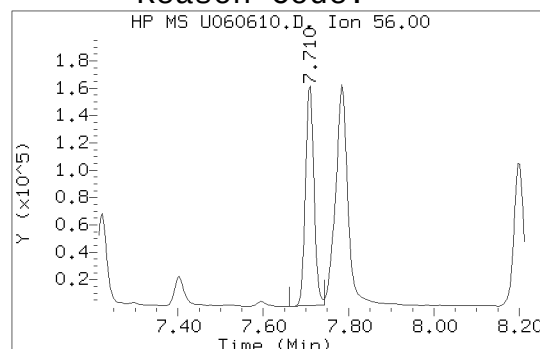
MASS
87
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

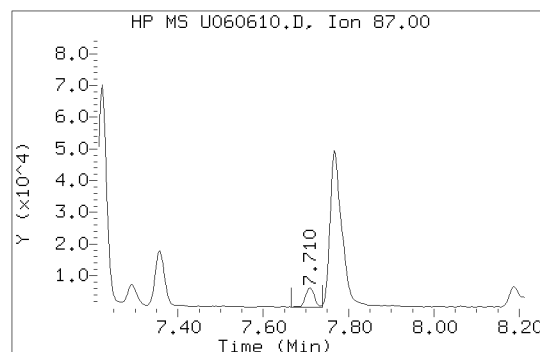
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56
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HEIGHT
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13-Jun-2023
13:00
linh

Reason Code:



AFTER

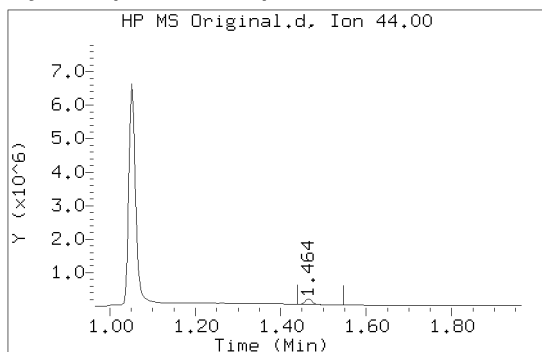
MASS
87
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13:00
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pham



Acetaldehyde (75-07-0)

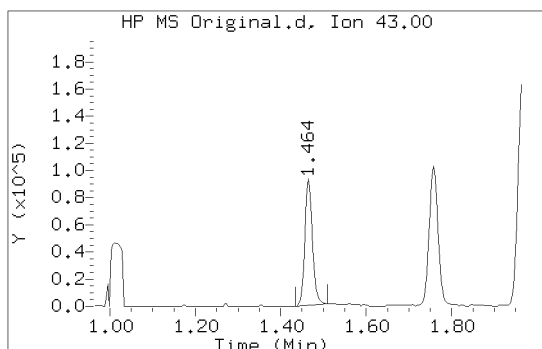
BEFORE

MASS
44
AREA
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HEIGHT
160861
08-Jun-2023
14:56
linh
pham



BEFORE

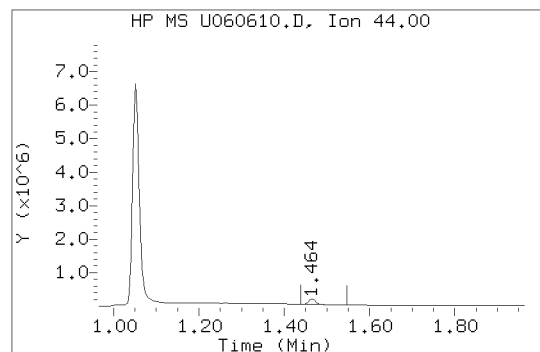
MASS
43
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HEIGHT
93282
08-Jun-2023
14:56
linh
pham



AFTER

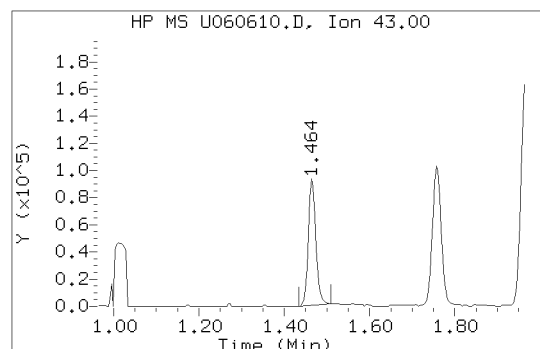
MASS
44
AREA
182837
HEIGHT
160861
13-Jun-2023
13:00
linh
pham

Reason Code:



AFTER

MASS
43
AREA
115916
HEIGHT
93282
13-Jun-2023
13:00
linh
pham

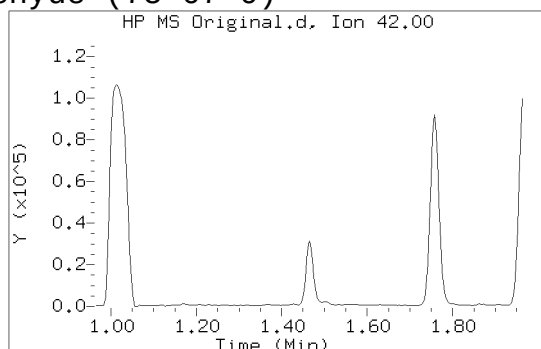


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 Inj Date : 06-JUN-2023 14:35
 InstruID : VOA9.i
 LabSampID : VSTD050

Acetaldehyde (75-07-0)

BEFORE

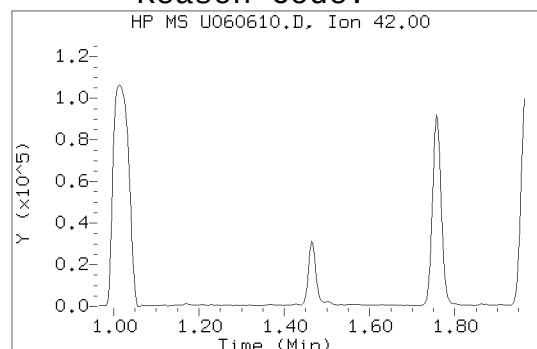
MASS
42
AREA
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HEIGHT
0
08-Jun-2023
14:56
linh
pham



AFTER

MASS
42
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HEIGHT
0
13-Jun-2023
13:00
linh
pham

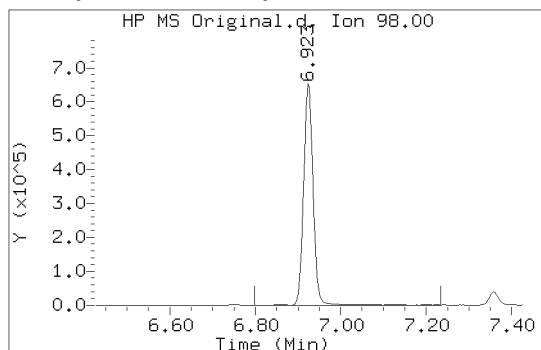
Reason Code:



Toluene-d8 (2037-26-5)

BEFORE

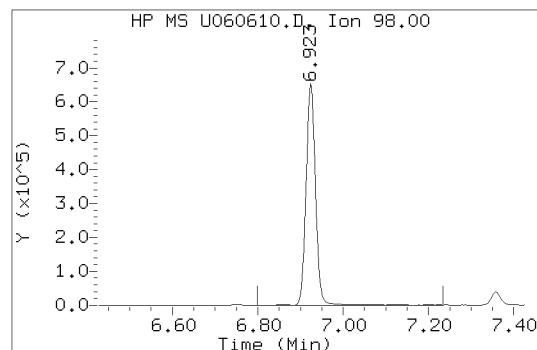
MASS
98
AREA
1047714
HEIGHT
653990
08-Jun-2023
14:56
linh
pham



AFTER

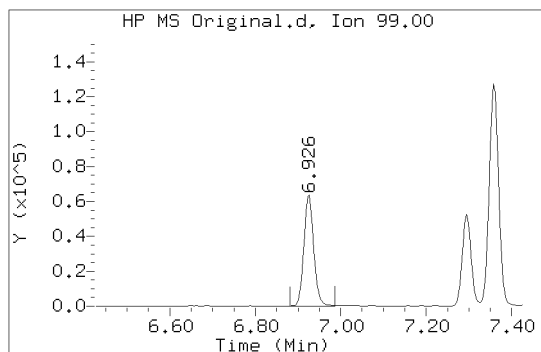
MASS
98
AREA
1047714
HEIGHT
653990
13-Jun-2023
13:00
linh
pham

Reason Code:



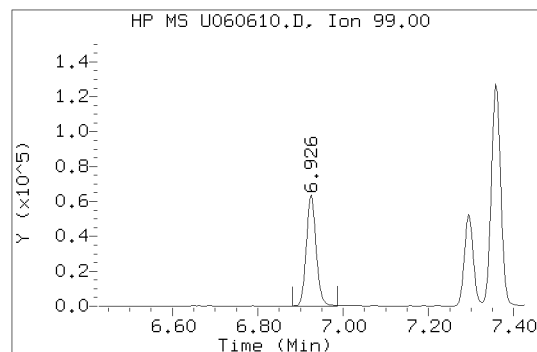
BEFORE

MASS
99
AREA
104983
HEIGHT
63672
08-Jun-2023
14:56
linh
pham



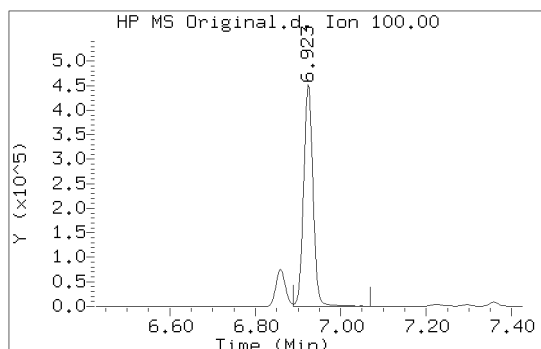
AFTER

MASS
99
AREA
104983
HEIGHT
63672
13-Jun-2023
13:00
linh
pham



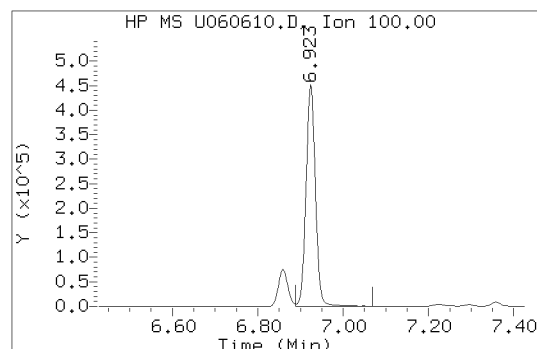
BEFORE

MASS
100
AREA
706605
HEIGHT
451766
08-Jun-2023
14:56
linh
pham



AFTER

MASS
100
AREA
706605
HEIGHT
451766
13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D Page 1
 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D
 Lab Smp Id: VSTD100 Client Smp ID: VSTD100
 Inj Date : 06-JUN-2023 14:57
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD100;VSTD100;1;8;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 14:35 Cal File: U060610.D
 Als bottle: 12 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.819	4.819	(1.000)		670070	50.0000	
2 Dichlorodifluoromethane	85		1.171	1.171	(0.243)		630744	100.000	101.79
3 Chloromethane	50		1.303	1.303	(0.270)		979734	100.000	98.21
5 Vinyl Chloride	62		1.385	1.385	(0.288)		740321	100.000	104.45
6 Bromomethane	94		1.621	1.621	(0.337)		362834	100.000	101.38
7 Chloroethane	64		1.704	1.704	(0.354)		467539	100.000	97.92
8 Trichlorofluoromethane	101		1.902	1.902	(0.395)		855761	100.000	105.12
9 Acrolein	56		2.274	2.274	(0.472)		67908	200.000	190.93
10 Acetone	43		2.416	2.416	(0.501)		467276	200.000	208.92
11 1,1-Dichloroethene	96		2.341	2.341	(0.486)		513614	100.000	100.98
15 Iodomethane	142		2.476	2.476	(0.514)		901104	200.000	199.55
16 Acrylonitrile	53		3.072	3.072	(0.638)		516348	200.000	207.79
17 Methylene Chloride	84		2.802	2.802	(0.582)		614571	100.000	101.61
18 Methyl tert-butyl ether	73		3.087	3.087	(0.641)		1584444	100.000	101.58
19 Carbon Disulfide	76		2.528	2.528	(0.525)		2847374	200.000	209.40
20 trans-1,2-Dichloroethene	96		3.065	3.065	(0.636)		568535	100.000	102.78
21 Vinyl Acetate	43		3.616	3.616	(0.750)		3561924	200.000	211.24
22 1,1-Dichloroethane	63		3.522	3.522	(0.731)		1000189	100.000	95.14
24 2-Butanone	43		4.272	4.272	(0.886)		586975	200.000	192.13
26 2,2-Dichloropropane	77		4.189	4.189	(0.869)		699035	100.000	100.17



27 cis-1,2-Dichloroethene	96	4.204	4.204 (0.872)	653745	100.000	98.79
28 Chloroform	83	4.579	4.579 (0.950)	1087668	100.000	99.41

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060611.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128		4.474	4.474	(0.928)		353937	100.000	95.61
\$ 30 Dibromofluoromethane	113		4.755	4.755	(0.987)		587291	100.000	104.76
31 1,1,1-Trichloroethane	97		4.748	4.748	(0.985)		877070	100.000	105.18
32 1,1-Dichloropropene	75		4.924	4.924	(0.886)		789905	100.000	106.49
33 1,2-Dichloroethane	62		5.183	5.183	(0.933)		859937	100.000	98.17
34 Carbon Tetrachloride	117		4.916	4.916	(0.885)		751459	100.000	110.29
\$ 35 1,2-Dichloroethane-d4	65		5.104	5.104	(1.059)		630129	100.000	104.27
* 36 1,4-Difluorobenzene	114		5.557	5.557	(1.000)		1012041	50.0000	
37 Benzene	78		5.141	5.141	(0.925)		2477058	100.000	101.57
38 Trichloroethene	130		5.790	5.790	(1.042)		703907	100.000	99.58
39 Bromodichloromethane	83		6.281	6.281	(1.130)		818290	100.000	107.56
41 2-Chloroethylvinyl ether	63		6.581	6.581	(1.184)		40457	200.000	219.88
42 1,2-Dichloropropane	63		6.015	6.015	(1.082)		652200	100.000	100.16
44 Dibromomethane	93		6.123	6.123	(1.102)		418327	100.000	100.55
45 4-Methyl-2-Pentanone	43		6.858	6.858	(0.838)		1453246	200.000	201.66
46 cis-1,3-Dichloropropene	75		6.693	6.693	(1.204)		1015887	100.000	97.77
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		989593	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		2212089	100.000	98.76
50 Toluene	91		6.982	6.982	(0.853)		2683985	100.000	99.99
51 trans-1,3-Dichloropropene	75		7.199	7.199	(1.295)		857257	100.000	98.18
52 2-Hexanone	43		7.593	7.593	(0.928)		985396	200.000	196.34
53 1,1,2-Trichloroethane	83		7.357	7.357	(0.899)		529613	100.000	94.83
54 1,3-Dichloropropane	76		7.499	7.499	(0.916)		1115267	100.000	97.74
55 Dibromochloromethane	129		7.694	7.694	(0.940)		737148	100.000	111.24
56 Tetrachloroethene	164		7.458	7.458	(0.911)		639857	100.000	97.84
57 1,2-Dibromoethane	107		7.788	7.788	(0.951)		667663	100.000	96.91
58 1-Chlorohexane	55		8.196	8.196	(1.475)		524953	100.000	101.01
59 Chlorobenzene	112		8.211	8.211	(1.003)		1872827	100.000	97.76
60 1,1,1,2-Tetrachloroethane	131		8.286	8.286	(1.012)		680431	100.000	103.34
61 Ethylbenzene	106		8.309	8.309	(1.015)		943978	100.000	105.87
62 m,p-Xylenes	106		8.410	8.410	(1.027)		2348572	200.000	222.64
63 o-Xylene	106		8.748	8.748	(1.069)		1136322	100.000	109.04
64 Styrene	104		8.763	8.763	(1.071)		1895390	100.000	114.61
66 Bromoform	173		8.920	8.920	(1.090)		516461	100.000	115.46
67 Isopropylbenzene	105		9.062	9.062	(1.107)		2761754	100.000	110.34
68 1,1,2,2-Tetrachloroethane	83		9.329	9.329	(0.917)		908699	100.000	94.04
\$ 69 4-Bromofluorobenzene	95		9.194	9.194	(1.123)		923899	100.000	105.68
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		513703	50.0000	
71 1,2,3-Trichloropropane	75		9.362	9.362	(0.920)		846266	100.000	99.55
73 n-Propylbenzene	91		9.411	9.411	(0.925)		3014111	100.000	111.86
74 Bromobenzene	156		9.317	9.317	(0.916)		845025	100.000	97.49
75 1,3,5-Trimethylbenzene	105		9.565	9.565	(0.940)		1940177	100.000	104.95
76 2-Chlorotoluene	91		9.482	9.482	(0.932)		1931083	100.000	101.94
77 4-Chlorotoluene	91		9.576	9.576	(0.941)		2158910	100.000	102.96
78 tert-Butylbenzene	119		9.838	9.838	(0.967)		1926006	100.000	106.08
79 1,2,4-Trimethylbenzene	105		9.880	9.880	(0.971)		1885486	100.000	97.48
81 sec-Butylbenzene	105		10.022	10.022	(0.985)		2529836	100.000	109.87
82 p-Isopropyltoluene	119		10.146	10.146	(0.997)		2089715	100.000	108.33
83 1,3-Dichlorobenzene	146		10.116	10.116	(0.994)		1428807	100.000	97.05
84 1,4-Dichlorobenzene	146		10.191	10.191	(1.002)		1475761	100.000	94.02
87 n-Butylbenzene	91		10.494	10.494	(1.032)		1713959	100.000	103.79
88 1,2-Dichlorobenzene	146		10.506	10.506	(1.033)		1414908	100.000	95.85



89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165 (1.098)	145818	100.000	103.41
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	1004776	100.000	98.96



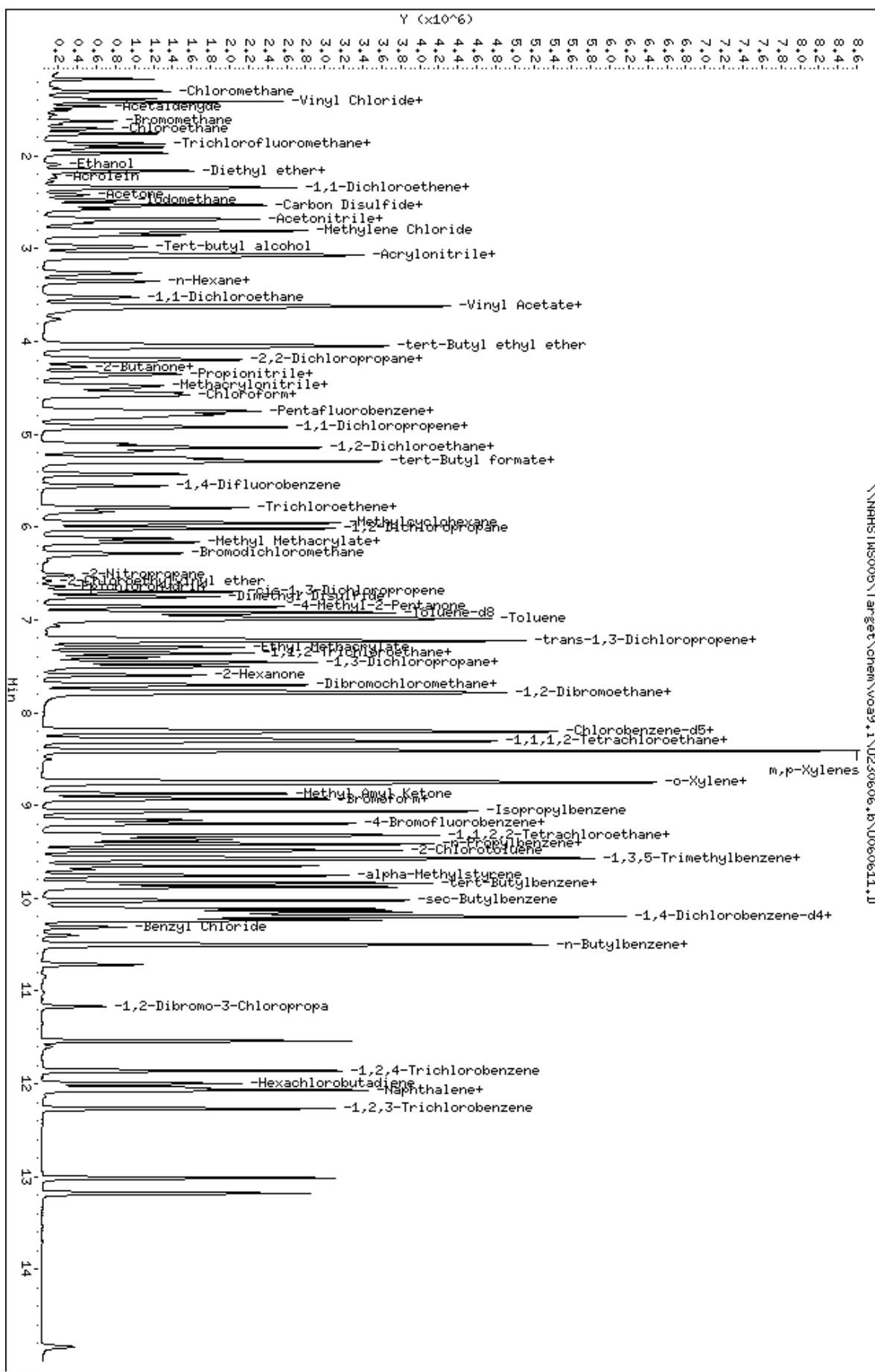
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Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	399123	100.000	97.34
92 Naphthalene	128	12.065	12.065	(1.186)	2448621	100.000	103.83
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	976842	100.000	98.42
M 94 1,2-Dichloroethylene (total)	96				1222280	200.000	(a)
135 1,4-Dioxane	88	6.172	6.172	(1.281)	185267	2000.00	1392.45
141 Cyclohexane	56	4.785	4.785	(0.993)	872566	100.000	102.63
138 Freon TF	101	2.345	2.345	(0.487)	480519	100.000	106.77
140 1,3-Butadiene	54	1.411	1.411	(0.293)	678126	100.000	106.86
147 Methylcyclohexane	55	5.951	5.951	(1.071)	1558687	100.000	111.02(A)
146 Methyl Acetate	43	2.720	2.720	(0.564)	537399	100.000	95.24
148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	1263261	2000.00	2045.59
149 Isopropyl Alcohol	45	2.573	2.573	(0.534)	847444	2000.00	1934.60
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	125171	100.000	109.85(M)
12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	1859195	2000.00	2135.51(M)
13 Acetonitrile	39	2.678	2.678	(0.556)	750162	1000.00	1034.05
14 Allyl Chloride	41	2.678	2.678	(0.556)	1757558	100.000	101.02
25 Methacrylonitrile	41	4.500	4.500	(0.934)	417519	100.000	105.46
40 Methyl Methacrylate	41	6.161	6.161	(1.278)	629718	100.000	109.29
4 Propionitrile	54	4.347	4.347	(0.902)	963710	1000.00	995.29
136 n-Hexane	57	3.349	3.349	(0.695)	595793	100.000	102.41
194 Acetaldehyde	44	1.468	1.468	(0.305)	401024	400.000	433.93(M)
131 Methyl Acrylate	55	4.377	4.377	(0.908)	743794	100.000	104.95(M)
200 Dimethyl Disulfide	94	6.749	6.749	(0.825)	843448	100.000	100.11
23 Chloroprene	53	2.165	2.165	(0.449)	214456	100.000	100.34(M)
49 Ethyl Methacrylate	69	7.293	7.293	(1.312)	960371	100.000	108.25
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	1877988	100.000	95.10
167 Ethanol	45	2.094	2.094	(0.435)	175232	2000.00	2120.76
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	2526635	100.000	100.82
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	939505	100.000	94.14
142 Tetrahydrofuran	42	4.549	4.549	(0.944)	246154	200.000	210.54
156 Diisopropyl ether	45	3.631	3.631	(0.753)	1887901	100.000	101.04
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.299)	3087346	2000.00	2051.50
150 Allyl alcohol	57	3.349	3.349	(0.695)	595793	2000.00	2048.16
86 Benzyl Chloride	91	10.311	10.311	(1.260)	573982	100.000	93.75
162 Butyl acrylate	55	8.733	8.733	(1.067)	1240696	100.000	105.99
139 Diethyl ether	59	2.154	2.154	(0.447)	464259	100.000	102.54
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	534360	100.000	100.35
134 Cyclohexanone	55	9.156	9.156	(0.900)	605439	2000.00	1901.05
130 Ethyl Acetate	43	4.272	4.272	(0.886)	580165	100.000	96.86(M)
189 n-Butyl acetate	43	7.709	7.709	(0.942)	1156578	100.000	102.64(M)
182 Epichlorohydrin	57	6.633	6.633	(1.194)	42530	400.000	396.34

QC Flag Legend

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





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 Column phase: DB624

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Instrument: VOA9.1
 Operator: PC
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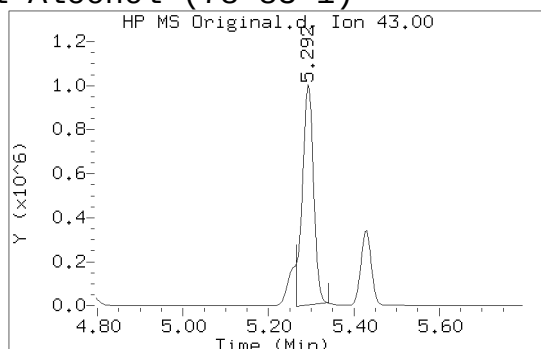


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InstruID : VOA9.i
LabSampID : VSTD100

Isobutyl Alcohol (78-83-1)

BEFORE

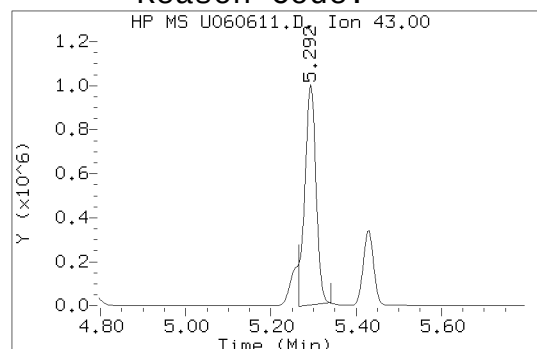
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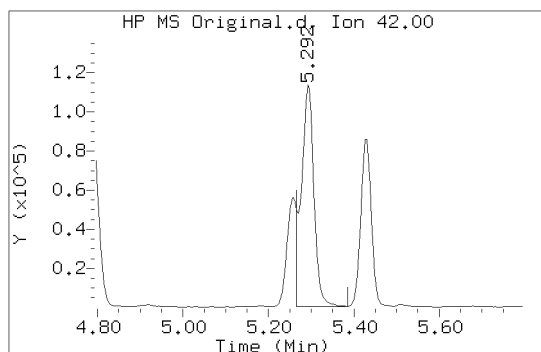
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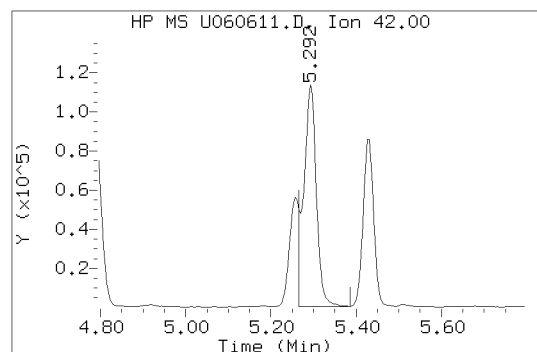
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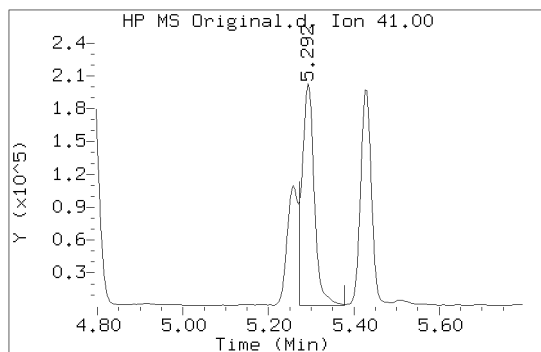
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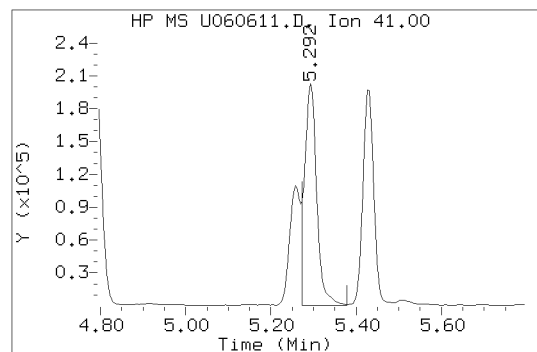
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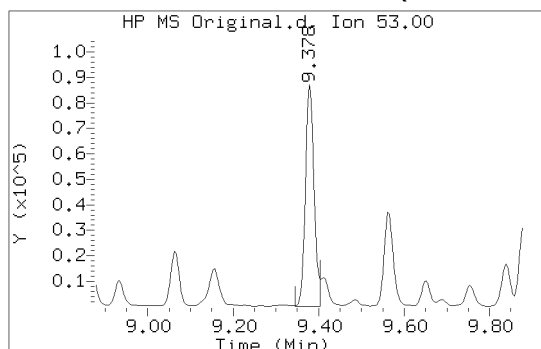
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pham



trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE

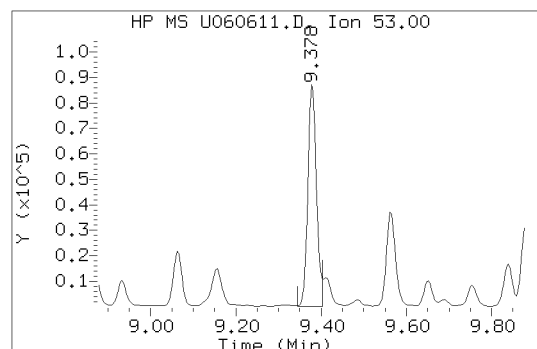
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AFTER

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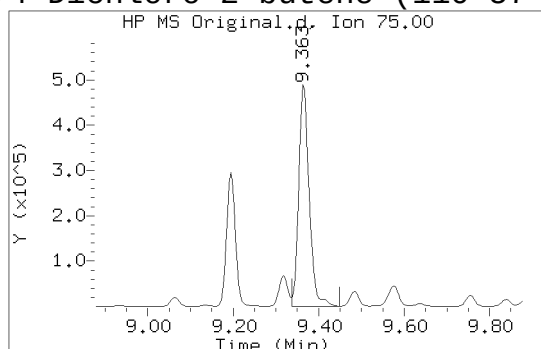


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InstruID : VOA9.i
LabSampID : VSTD100

trans-1,4-Dichloro-2-butene (110-57-6)

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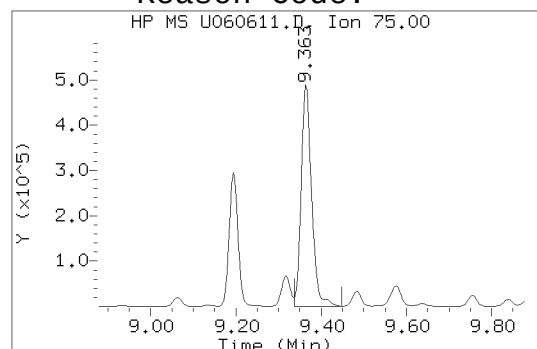
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AFTER

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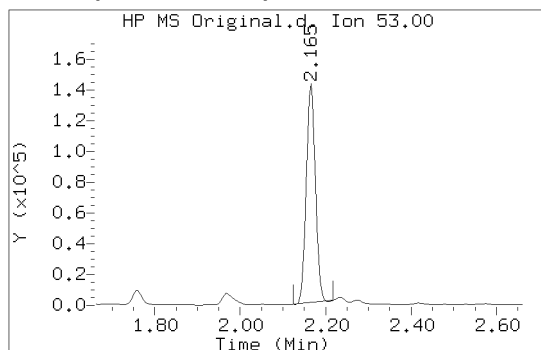
Reason Code:



Chloroprene (126-99-8)

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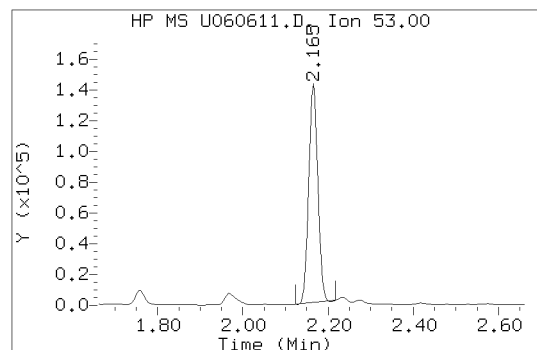
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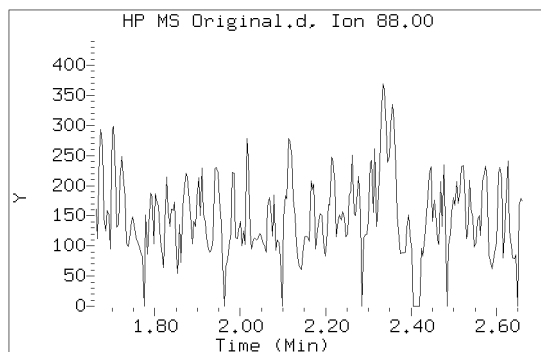
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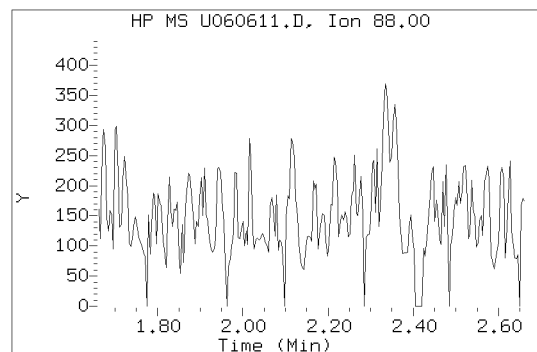
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AFTER

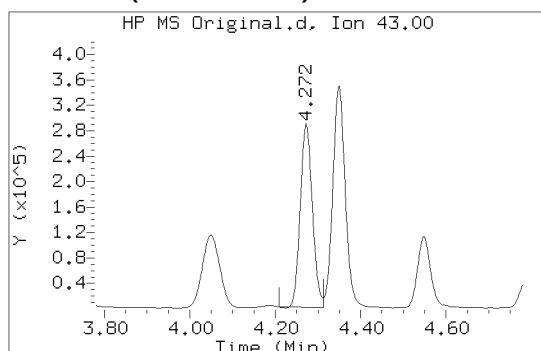
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Ethyl Acetate (141-78-6)

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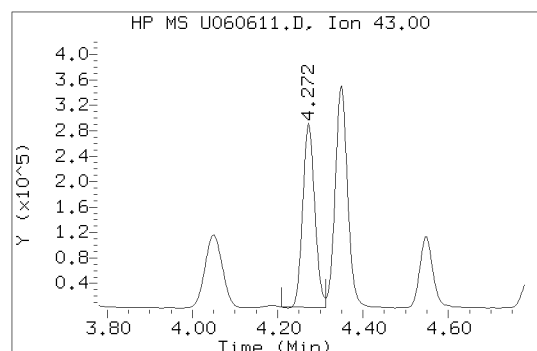
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AFTER

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HEIGHT
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Reason Code:

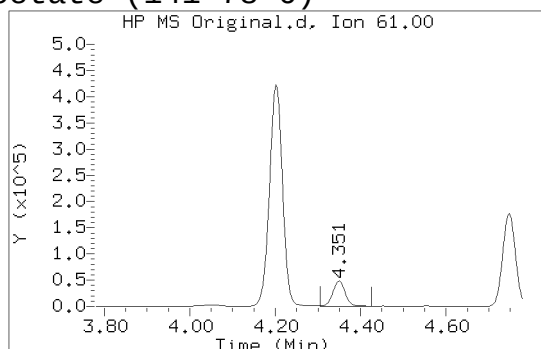


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InstruID : VOA9.i
LabSampID : VSTD100

Ethyl Acetate (141-78-6)

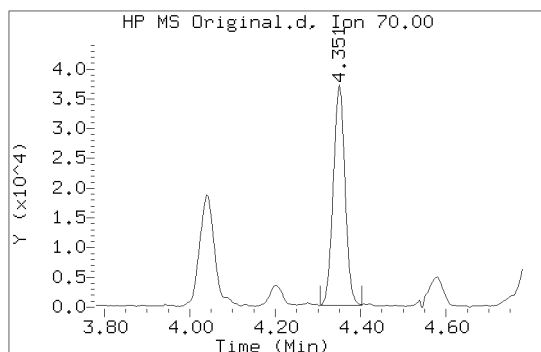
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BEFORE

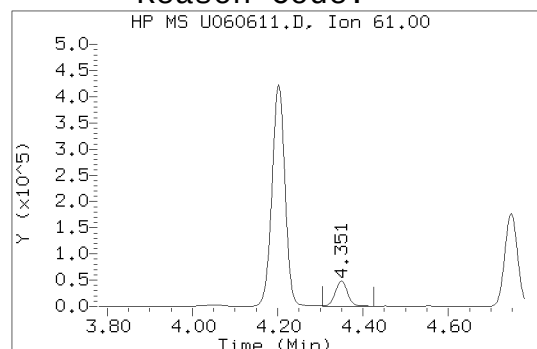
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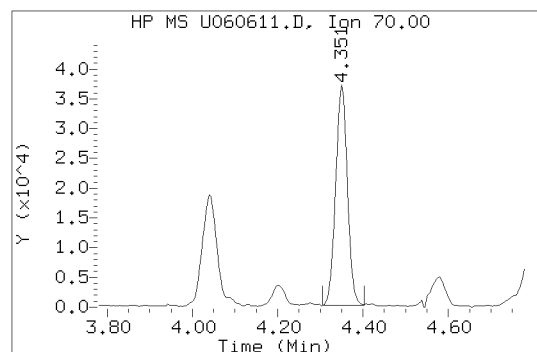
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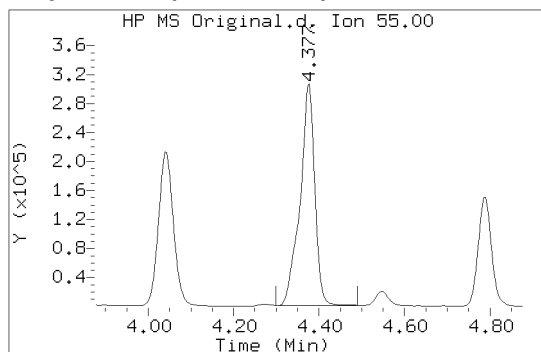
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pham



Methyl Acrylate (96-33-3)

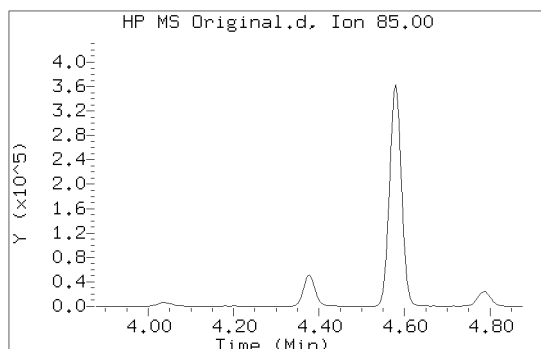
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BEFORE

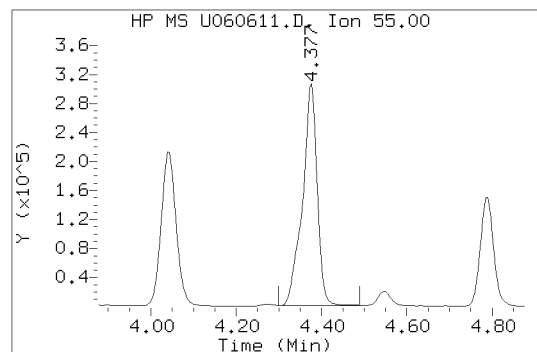
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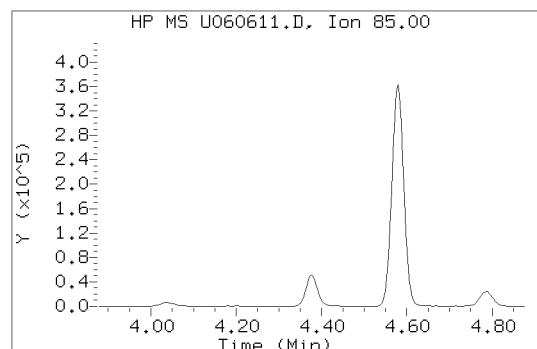
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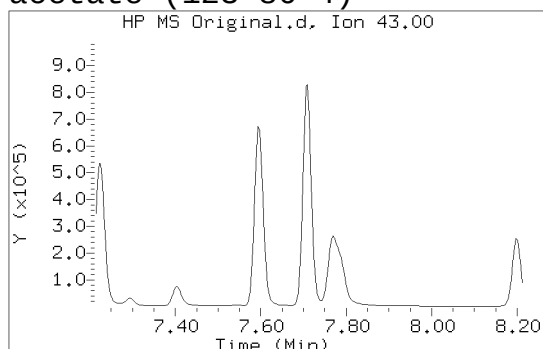
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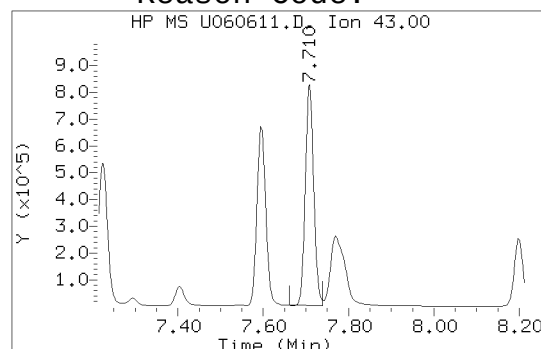
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InstruID : VOA9.i
LabSampID : VSTD100

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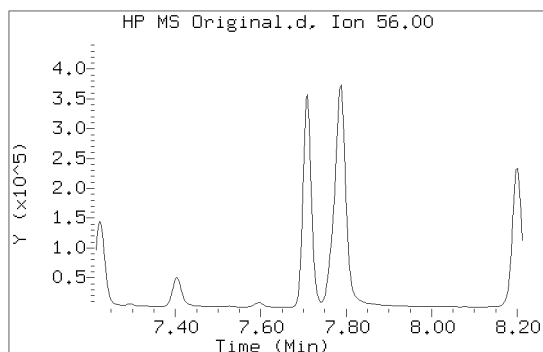
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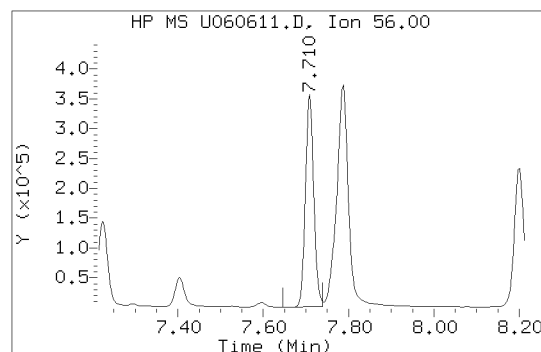
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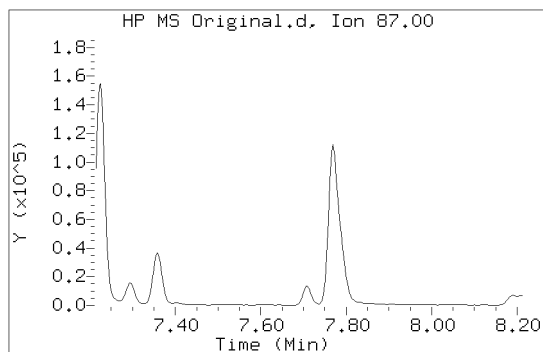
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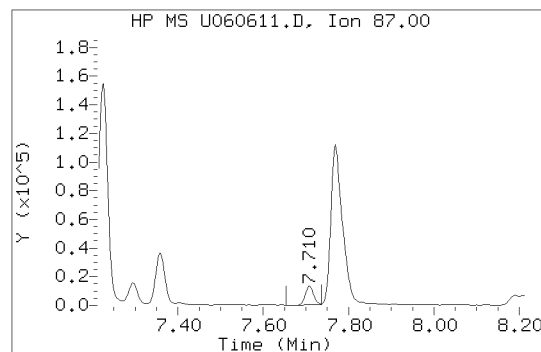
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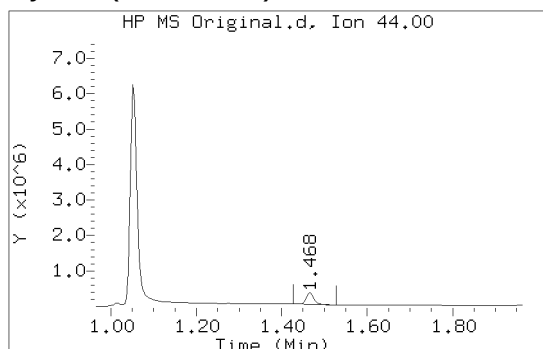
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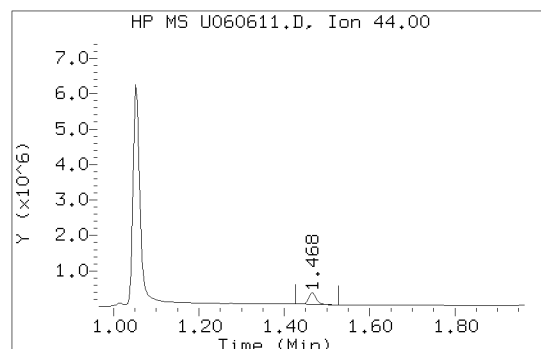
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**Acetaldehyde (75-07-0)****BEFORE**

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08-Jun-2023
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**AFTER**

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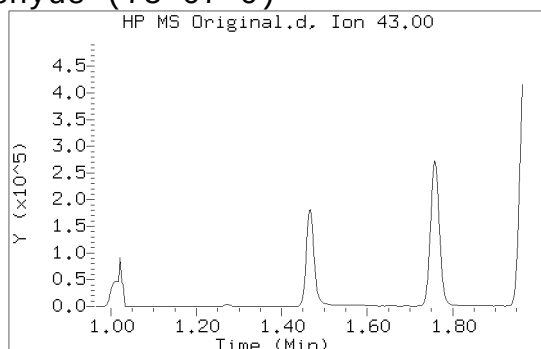


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LabSampID : VSTD100

Acetaldehyde (75-07-0)

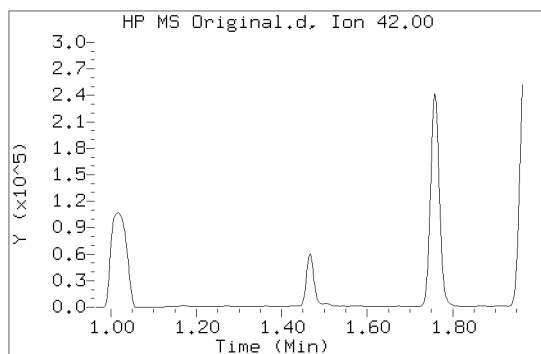
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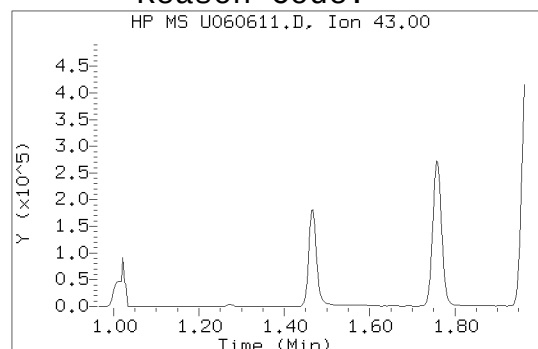
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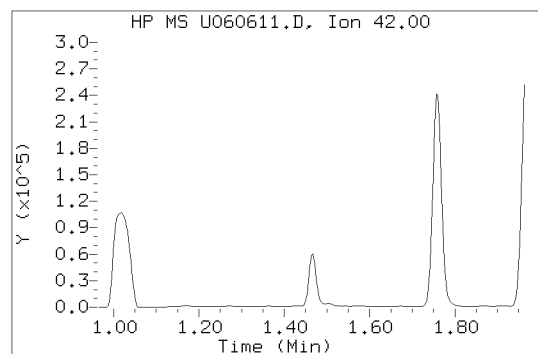
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pham
AFTER

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 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060612.D
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 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD150;VSTD150;1;9;
 Misc Info : V9;WATER;0;1;
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 Cal Date : 06-JUN-2023 14:57 Cal File: U060611.D
 Als bottle: 13 Calibration Sample, Level: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

		QUANT SIG				AMOUNTS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	693393	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	960667	150.000	149.79
3 Chloromethane	50	1.299	1.299	(0.270)	1383207	150.000	134.48
5 Vinyl Chloride	62	1.378	1.378	(0.286)	1135719	150.000	154.84
6 Bromomethane	94	1.614	1.614	(0.335)	572508	150.000	155.55
7 Chloroethane	64	1.700	1.700	(0.353)	710334	150.000	143.77
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	1306396	150.000	155.08
9 Acrolein	56	2.270	2.270	(0.471)	101869	300.000	276.78
10 Acetone	43	2.412	2.412	(0.501)	669020	300.000	291.26
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	792951	150.000	150.65
15 Iodomethane	142	2.472	2.472	(0.513)	1654094	300.000	314.13
16 Acrylonitrile	53	3.068	3.068	(0.637)	777948	300.000	302.53
17 Methylene Chloride	84	2.799	2.799	(0.581)	934598	150.000	149.80
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	2427294	150.000	150.38
19 Carbon Disulfide	76	2.525	2.525	(0.524)	4369759	300.000	310.56
20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	854280	150.000	149.24
21 Vinyl Acetate	43	3.612	3.612	(0.750)	5494788	300.000	314.91
22 1,1-Dichloroethane	63	3.518	3.518	(0.730)	1535399	150.000	141.14
24 2-Butanone	43	4.272	4.272	(0.886)	886610	300.000	280.44
26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	1080274	150.000	149.40



27 cis-1,2-Dichloroethene	96	4.201	4.201 (0.872)	1008606	150.000	147.29
28 Chloroform	83	4.575	4.575 (0.949)	1661391	150.000	146.74

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060612.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.474	4.474	(0.928)	547129	150.000	142.83
\$ 30 Dibromofluoromethane	113	4.752	4.752	(0.986)	869167	150.000	149.96
31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	1344181	150.000	155.77
32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	1205862	150.000	156.12
33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	1309746	150.000	143.58
34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	1159204	150.000	163.38
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	944002	150.000	151.26
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	1053901	50.0000	
37 Benzene	78	5.141	5.141	(0.926)	3801057	150.000	149.67
38 Trichloroethene	130	5.790	5.790	(1.043)	1087941	150.000	147.80
39 Bromodichloromethane	83	6.281	6.281	(1.131)	1283901	150.000	162.07
41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	81461	300.000	425.14(A)
42 1,2-Dichloropropane	63	6.015	6.015	(1.083)	1011740	150.000	149.21
44 Dibromomethane	93	6.124	6.124	(1.103)	644143	150.000	148.67
45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	2275634	300.000	307.02
46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	1649908	150.000	151.42
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	1017824	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	3265170	150.000	141.74
50 Toluene	91	6.982	6.982	(0.853)	4084070	150.000	147.94
51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	1382903	150.000	150.98
52 2-Hexanone	43	7.597	7.597	(0.928)	1507185	300.000	291.99
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	820894	150.000	142.91
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	1724053	150.000	146.90
55 Dibromochloromethane	129	7.694	7.694	(0.940)	1165162	150.000	170.96
56 Tetrachloroethene	164	7.458	7.458	(0.911)	979028	150.000	145.56
57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	1030570	150.000	145.44
58 1-Chlorohexane	55	8.200	8.200	(1.476)	831688	150.000	153.68
59 Chlorobenzene	112	8.212	8.212	(1.003)	2875380	150.000	145.94
60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	1071450	150.000	158.22
61 Ethylbenzene	106	8.309	8.309	(1.015)	1466582	150.000	159.93
62 m,p-Xylenes	106	8.410	8.410	(1.027)	3636671	300.000	335.20
63 o-Xylene	106	8.748	8.748	(1.069)	1775674	150.000	165.67
64 Styrene	104	8.763	8.763	(1.071)	2956532	150.000	173.82
66 Bromoform	173	8.920	8.920	(1.090)	819014	150.000	178.03
67 Isopropylbenzene	105	9.063	9.063	(1.107)	4235878	150.000	164.54
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1374039	150.000	140.32
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1355424	150.000	151.13
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	520569	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1312413	150.000	152.35
73 n-Propylbenzene	91	9.415	9.415	(0.926)	4668789	150.000	170.98
74 Bromobenzene	156	9.317	9.317	(0.916)	1305028	150.000	148.57
75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	3068129	150.000	163.78
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	2928853	150.000	152.58
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	3299464	150.000	155.29
78 tert-Butylbenzene	119	9.839	9.839	(0.967)	2957735	150.000	160.75
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	2991253	150.000	152.61
81 sec-Butylbenzene	105	10.026	10.026	(0.986)	3927022	150.000	168.30
82 p-Isopropyltoluene	119	10.150	10.150	(0.998)	3334448	150.000	170.58
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	2191876	150.000	146.92
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	2268941	150.000	142.64
87 n-Butylbenzene	91	10.495	10.495	(1.032)	2750567	150.000	164.36
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2171343	150.000	145.16



89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	234556	150.000	164.15
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	1581317	150.000	153.70

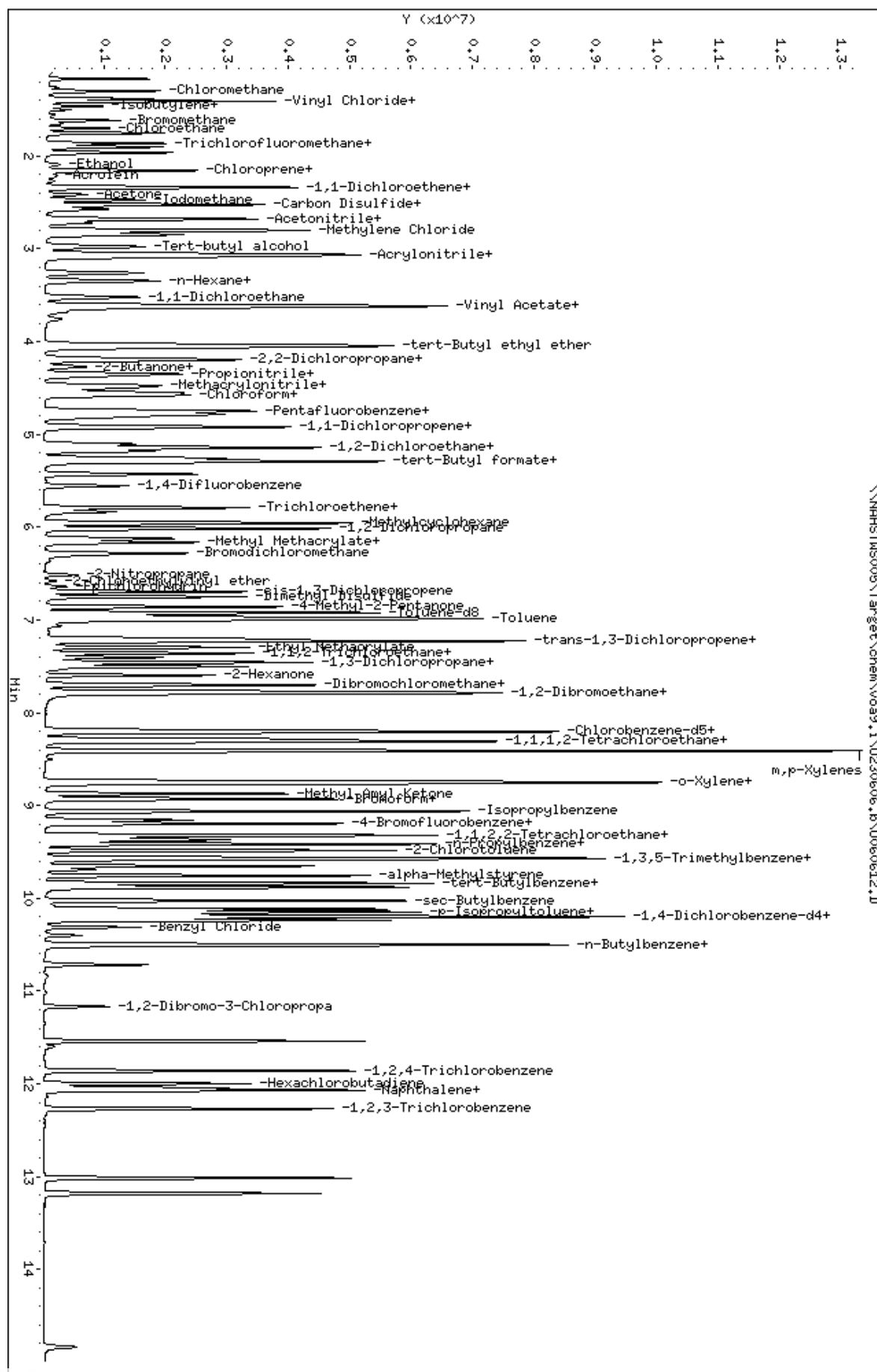
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Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	641183	150.000	154.32
92 Naphthalene	128	12.069	12.069	(1.186)	3777446	150.000	158.06
93 1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	1515436	150.000	150.67
M 94 1,2-Dichloroethylene (total)	96				1862886	300.000	(a)
135 1,4-Dioxane	88	6.172	6.172	(1.281)	279013	3000.00	2026.50
141 Cyclohexane	56	4.785	4.785	(0.993)	1346053	150.000	148.66
138 Freon TF	101	2.337	2.337	(0.485)	744713	150.000	159.91
140 1,3-Butadiene	54	1.408	1.408	(0.292)	1026660	150.000	156.34
147 Methylcyclohexane	55	5.951	5.951	(1.072)	2435816	150.000	166.61(A)
146 Methyl Acetate	43	2.720	2.720	(0.564)	806323	150.000	138.10
148 Tert-Butyl alcohol	59	2.975	2.975	(0.617)	1948328	3000.00	3051.23
149 Isopropyl Alcohol	45	2.574	2.574	(0.534)	1284183	3000.00	2833.01
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	204272	150.000	174.30(M)
12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	2767410	3000.00	3071.79(M)
13 Acetonitrile	39	2.675	2.675	(0.555)	1141243	1500.00	1520.22
14 Allyl Chloride	41	2.679	2.679	(0.556)	2678647	150.000	148.79
25 Methacrylonitrile	41	4.500	4.500	(0.934)	649391	150.000	158.51
40 Methyl Methacrylate	41	6.161	6.161	(1.278)	969658	150.000	162.64
4 Propionitrile	54	4.347	4.347	(0.902)	1447622	1500.00	1444.77
136 n-Hexane	57	3.346	3.346	(0.694)	933406	150.000	149.31
194 Acetaldehyde	44	1.460	1.460	(0.303)	604743	600.000	632.36(M)
131 Methyl Acrylate	55	4.373	4.373	(0.907)	1119010	150.000	152.59(M)
200 Dimethyl Disulfide	94	6.750	6.750	(0.825)	1542342	150.000	156.55
23 Chloroprene	53	2.161	2.161	(0.449)	341381	150.000	154.36
49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	1503706	150.000	162.76
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2909415	150.000	145.39
167 Ethanol	45	2.090	2.090	(0.434)	261491	3000.00	3068.37
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	3912009	150.000	154.05
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	1521945	150.000	148.37
142 Tetrahydrofuran	42	4.549	4.549	(0.944)	364883	300.000	302.61
156 Diisopropyl ether	45	3.627	3.627	(0.753)	2879455	150.000	148.92
151 4-Methyl-2-pentanol	45	7.226	7.226	(1.301)	4710347	3000.00	3005.64
150 Allyl alcohol	57	3.346	3.346	(0.694)	933406	3000.00	2986.18
86 Benzyl Chloride	91	10.311	10.311	(1.260)	988530	150.000	154.64
162 Butyl acrylate	55	8.733	8.733	(1.067)	1959643	150.000	162.76
139 Diethyl ether	59	2.150	2.150	(0.446)	716609	150.000	152.95
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	905239	150.000	153.98
134 Cyclohexanone	55	9.156	9.156	(0.900)	877279	3000.00	2718.28
130 Ethyl Acetate	43	4.272	4.272	(0.886)	876170	150.000	141.35(M)
189 n-Butyl acetate	43	7.709	7.709	(0.942)	1856486	150.000	160.19(M)
182 Epichlorohydrin	57	6.633	6.633	(1.194)	78090	600.000	617.79

QC Flag Legend

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





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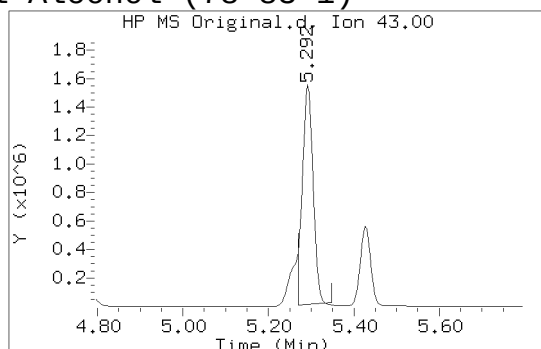
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LabSampID : VSTD150

Isobutyl Alcohol (78-83-1)

BEFORE

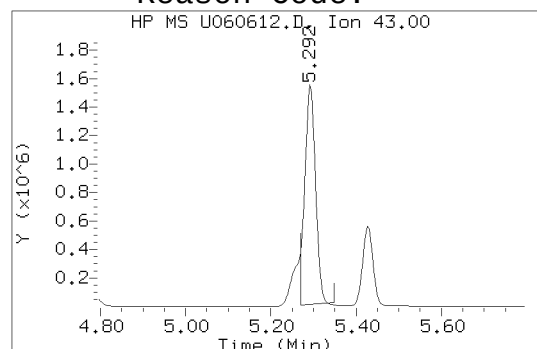
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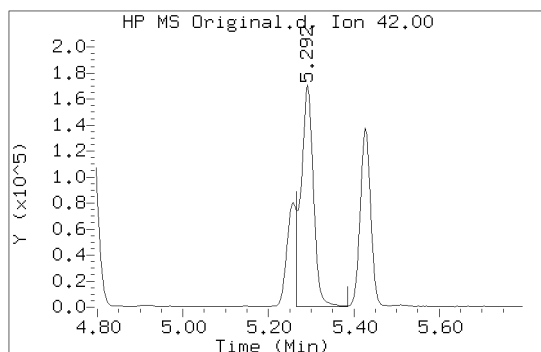
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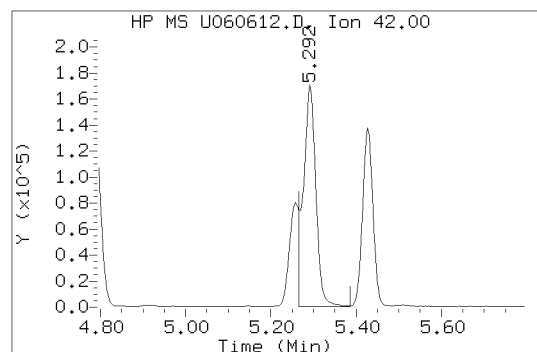
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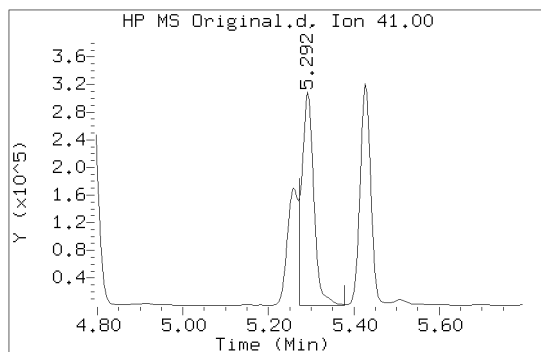
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13-Jun-2023
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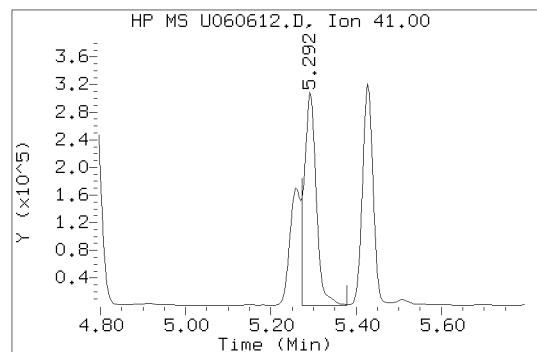
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AFTER

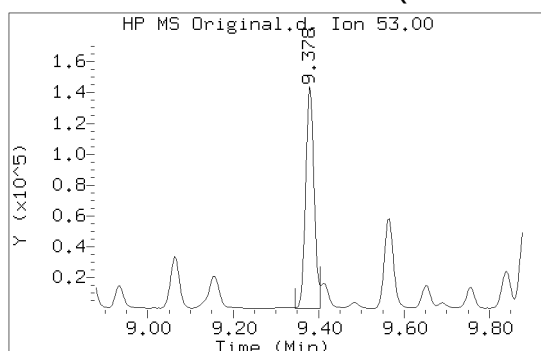
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trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE

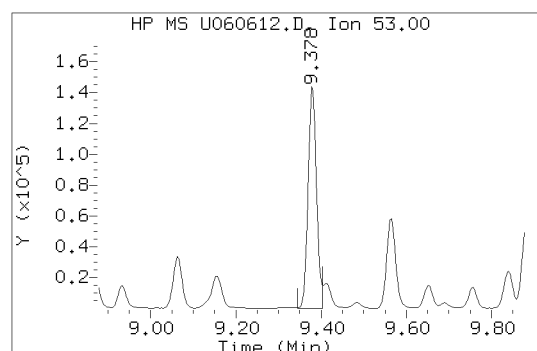
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AFTER

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Reason Code:

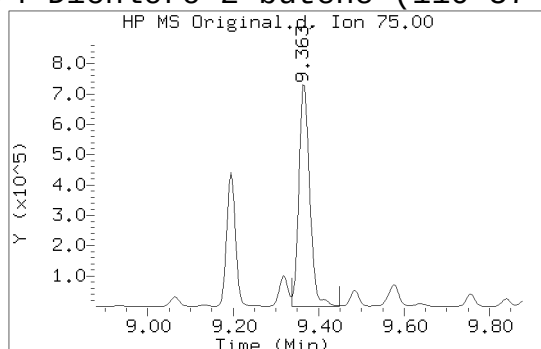


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Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

trans-1,4-Dichloro-2-butene (110-57-6)

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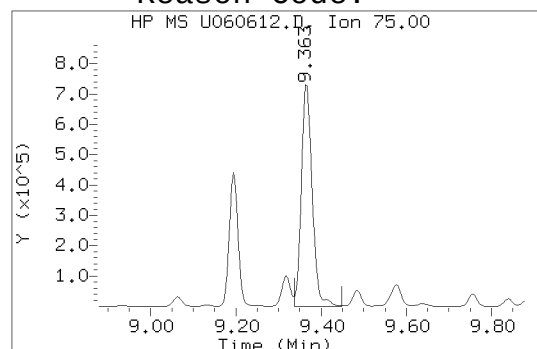
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AFTER

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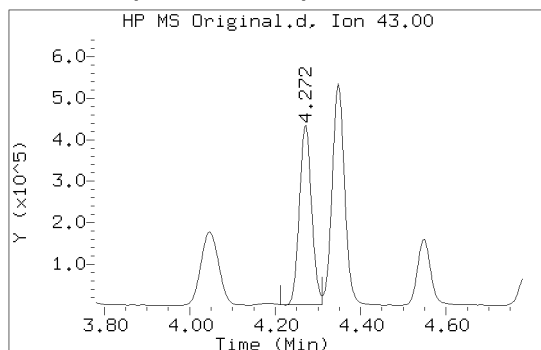
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Ethyl Acetate (141-78-6)

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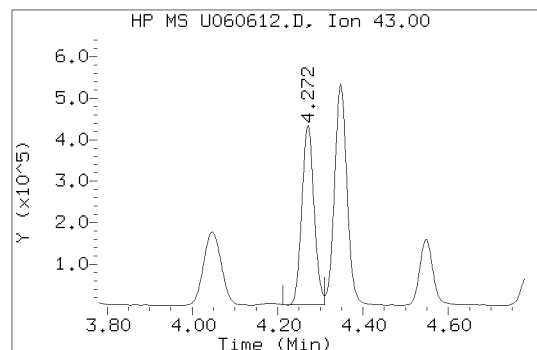
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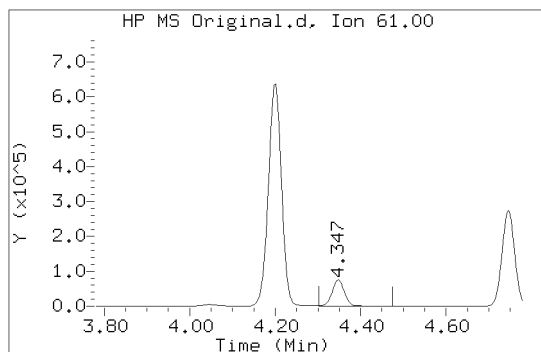
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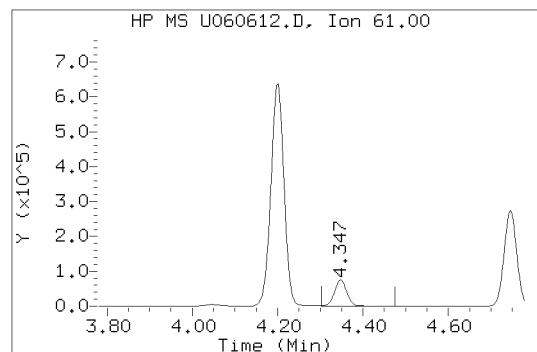
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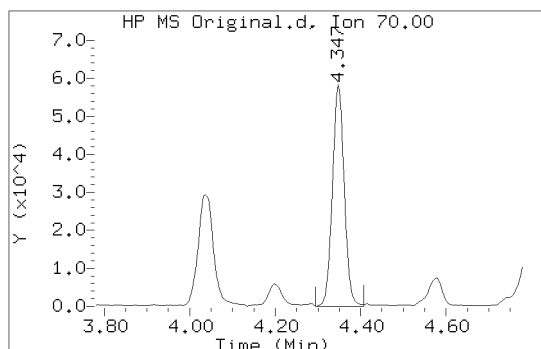
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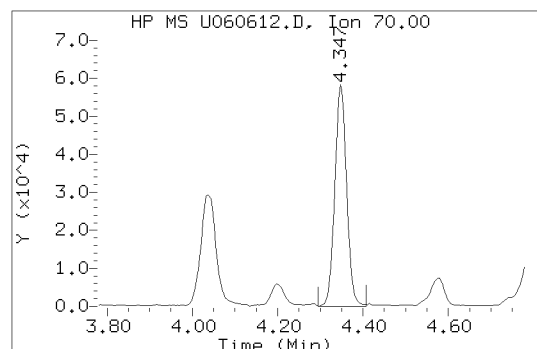
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AFTER

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13:00
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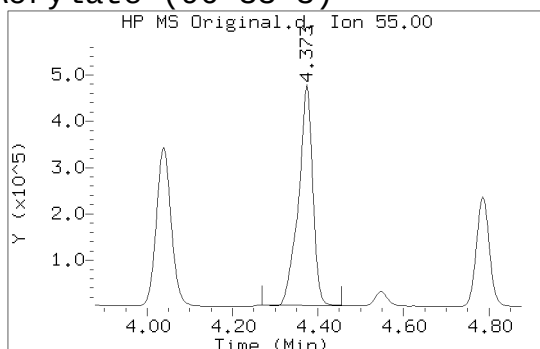


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InstruID : VOA9.i
LabSampID : VSTD150

Methyl Acrylate (96-33-3)

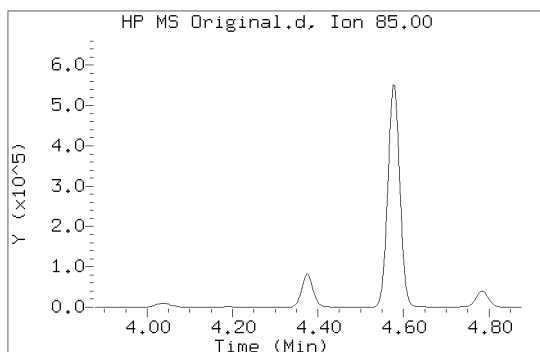
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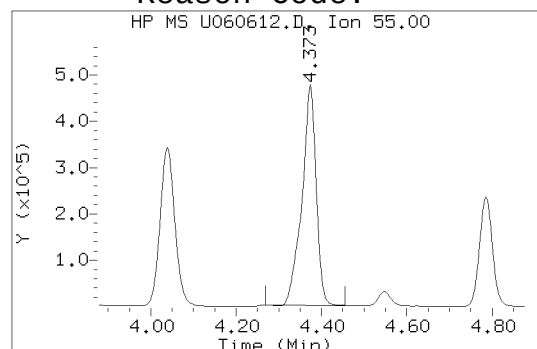
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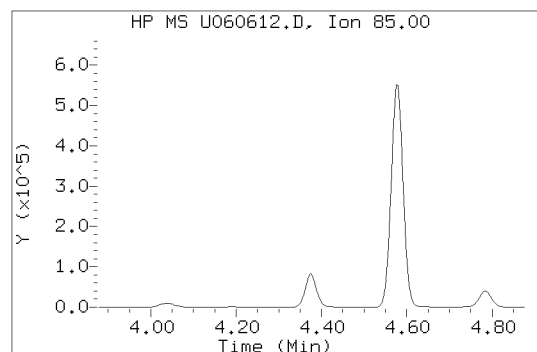
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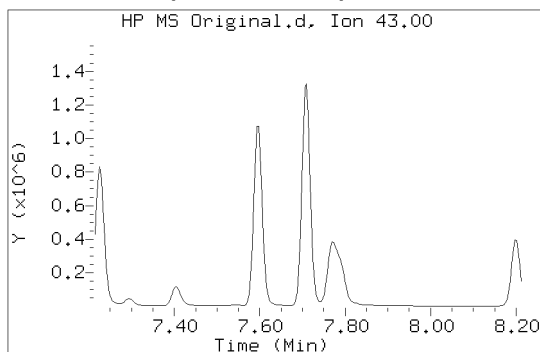
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n-Butyl acetate (123-86-4)

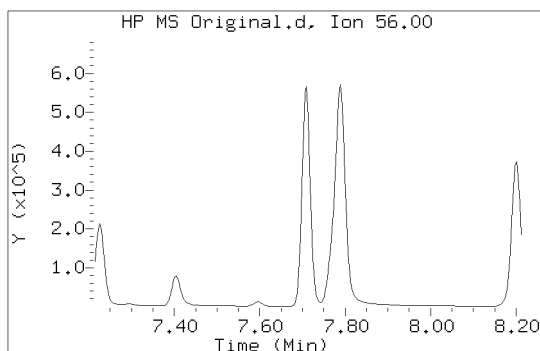
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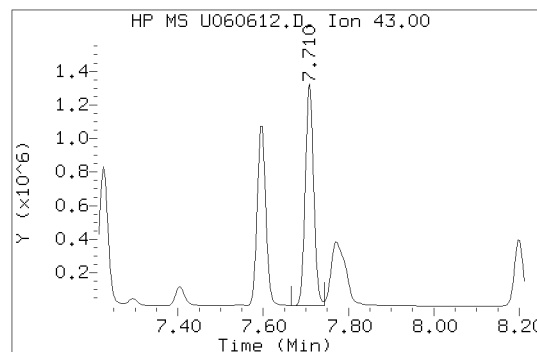
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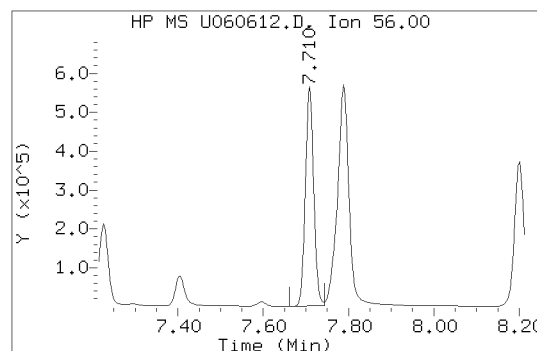
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AFTER

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13:00
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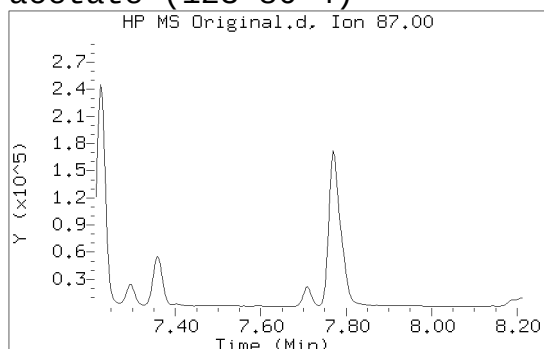


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Inj Date : 06-JUN-2023 15:19
InstruID : VOA9.i
LabSampID : VSTD150

n-Butyl acetate (123-86-4)

BEFORE

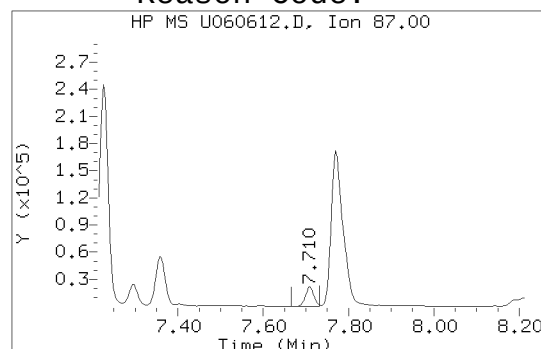
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08-Jun-2023
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AFTER

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13-Jun-2023
13:00
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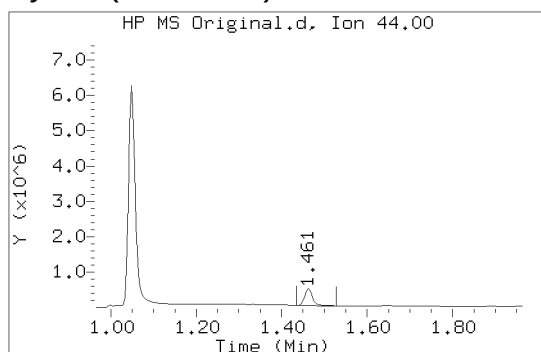
Reason Code:



Acetaldehyde (75-07-0)

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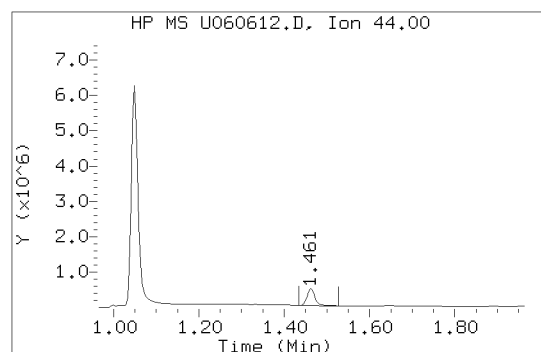
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AFTER

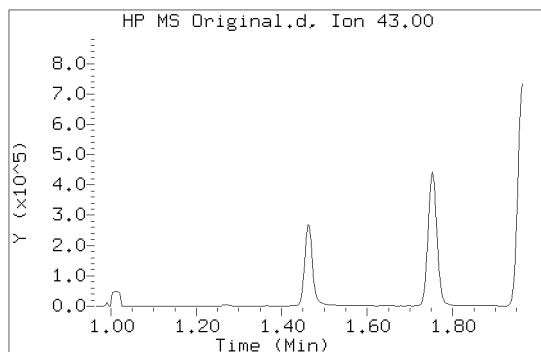
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Reason Code:



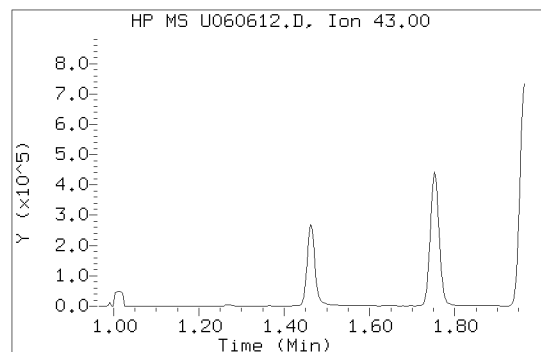
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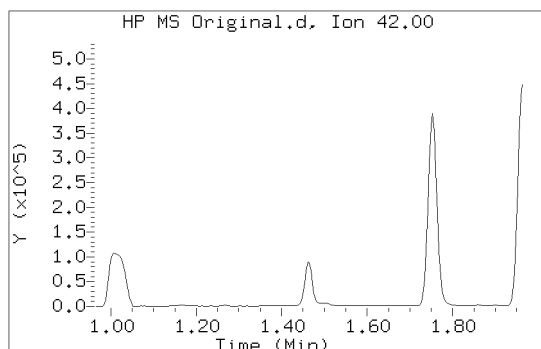
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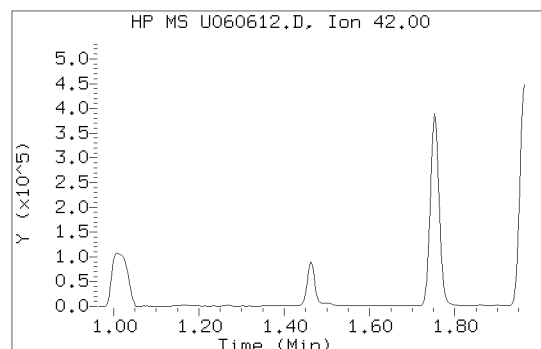
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AFTER

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13-Jun-2023
13:00
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D Page 1
 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D
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 Inj Date : 06-JUN-2023 15:41
 Operator : PC Inst ID: VOA9.i
 Smp Info : VSTD200;VSTD200;1;10;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 15:19 Cal File: U060612.D
 Als bottle: 14 Calibration Sample, Level: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

		QUANT SIG				AMOUNTS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	719289	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	1327832	200.000	199.55
3 Chloromethane	50	1.303	1.303	(0.270)	1811207	200.000	170.11
5 Vinyl Chloride	62	1.382	1.382	(0.287)	1577666	200.000	207.36(A)
6 Bromomethane	94	1.614	1.614	(0.335)	739966	200.000	194.26
7 Chloroethane	64	1.700	1.700	(0.353)	966868	200.000	188.65
8 Trichlorofluoromethane	101	1.903	1.903	(0.395)	1797881	200.000	205.74(A)
9 Acrolein	56	2.270	2.270	(0.471)	145745	400.000	381.74
10 Acetone	43	2.416	2.416	(0.501)	921553	400.000	388.62
11 1,1-Dichloroethene	96	2.341	2.341	(0.486)	1106671	200.000	202.69(A)
15 Iodomethane	142	2.472	2.472	(0.513)	2389174	400.000	393.17
16 Acrylonitrile	53	3.072	3.072	(0.638)	1044690	400.000	391.64
17 Methylene Chloride	84	2.799	2.799	(0.581)	1286266	200.000	199.09
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	3267974	200.000	195.18
19 Carbon Disulfide	76	2.525	2.525	(0.524)	6034238	400.000	413.41(A)
20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	1205698	200.000	203.05(A)
21 Vinyl Acetate	43	3.616	3.616	(0.750)	7382189	400.000	407.85(A)
22 1,1-Dichloroethane	63	3.522	3.522	(0.731)	2108962	200.000	186.89
24 2-Butanone	43	4.272	4.272	(0.886)	1191616	400.000	363.35
26 2,2-Dichloropropane	77	4.189	4.189	(0.869)	1505657	200.000	200.60(A)



27 cis-1,2-Dichloroethene	96	4.204	4.204 (0.872)	1388156	200.000	195.41
28 Chloroform	83	4.579	4.579 (0.950)	2274175	200.000	193.63

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060613.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.474	4.474	(0.928)	727780	200.000	183.15
\$ 30 Dibromofluoromethane	113	4.755	4.755	(0.987)	1189943	200.000	198.02
31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	1886386	200.000	210.74(A)
32 1,1-Dichloropropene	75	4.924	4.924	(0.886)	1700729	200.000	212.75(A)
33 1,2-Dichloroethane	62	5.183	5.183	(0.933)	1771626	200.000	187.66
34 Carbon Tetrachloride	117	4.917	4.917	(0.885)	1637950	200.000	223.06(A)
\$ 35 1,2-Dichloroethane-d4	65	5.104	5.104	(1.059)	1273587	200.000	196.93
* 36 1,4-Difluorobenzene	114	5.558	5.558	(1.000)	1090740	50.0000	
37 Benzene	78	5.141	5.141	(0.925)	5184803	200.000	197.26
38 Trichloroethene	130	5.790	5.790	(1.042)	1521502	200.000	199.72
39 Bromodichloromethane	83	6.281	6.281	(1.130)	1771493	200.000	216.07(A)
41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.184)	132164	400.000	666.47(A)
42 1,2-Dichloropropane	63	6.015	6.015	(1.082)	1391632	200.000	198.30
44 Dibromomethane	93	6.124	6.124	(1.102)	883833	200.000	197.11
45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	3098336	400.000	401.08(A)
46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.204)	2272308	200.000	200.87(A)
* 47 Chlorobenzene-d5	117	8.189	8.189	(1.000)	1060812	50.0000	
\$ 48 Toluene-d8	98	6.926	6.926	(0.846)	4434953	200.000	184.71
50 Toluene	91	6.982	6.982	(0.853)	5549820	200.000	192.89
51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.295)	1913130	200.000	201.14(A)
52 2-Hexanone	43	7.597	7.597	(0.928)	2078685	400.000	386.39
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.898)	1110628	200.000	185.51
54 1,3-Dichloropropane	76	7.503	7.503	(0.916)	2327172	200.000	190.26
55 Dibromochloromethane	129	7.694	7.694	(0.940)	1606540	200.000	226.17(A)
56 Tetrachloroethene	164	7.458	7.458	(0.911)	1393824	200.000	198.83
57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	1398022	200.000	189.30
58 1-Chlorohexane	55	8.200	8.200	(1.475)	1197273	200.000	213.76(A)
59 Chlorobenzene	112	8.212	8.212	(1.003)	3927200	200.000	191.25
60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	1485967	200.000	210.54(A)
61 Ethylbenzene	106	8.309	8.309	(1.015)	2034447	200.000	212.86(A)
62 m,p-Xylenes	106	8.410	8.410	(1.027)	5028837	400.000	444.73(A)
63 o-Xylene	106	8.748	8.748	(1.068)	2445057	200.000	218.88(A)
64 Styrene	104	8.763	8.763	(1.070)	4009853	200.000	226.19(A)
66 Bromoform	173	8.920	8.920	(1.089)	1122084	200.000	234.02(A)
67 Isopropylbenzene	105	9.063	9.063	(1.107)	5892020	200.000	219.60(A)
68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	1811573	200.000	181.35
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1832443	200.000	196.31
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	531037	50.0000	
71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	1763864	200.000	200.72(A)
73 n-Propylbenzene	91	9.415	9.415	(0.926)	6509511	200.000	233.69(A)
74 Bromobenzene	156	9.321	9.321	(0.916)	1773376	200.000	197.92
75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	4383254	200.000	229.37(A)
76 2-Chlorotoluene	91	9.486	9.486	(0.933)	3980132	200.000	203.26(A)
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	4532900	200.000	209.14(A)
78 tert-Butylbenzene	119	9.839	9.839	(0.967)	4141351	200.000	220.65(A)
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	4284336	200.000	214.27(A)
81 sec-Butylbenzene	105	10.026	10.026	(0.986)	5530698	200.000	232.36(A)
82 p-Isopropyltoluene	119	10.150	10.150	(0.998)	4785361	200.000	239.98(A)
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	3007133	200.000	197.60
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	3094412	200.000	190.71
87 n-Butylbenzene	91	10.495	10.495	(1.032)	3970657	200.000	232.59(A)
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2966505	200.000	194.42



89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	327879	200.000	224.94(A)
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	2208303	200.000	210.41(A)



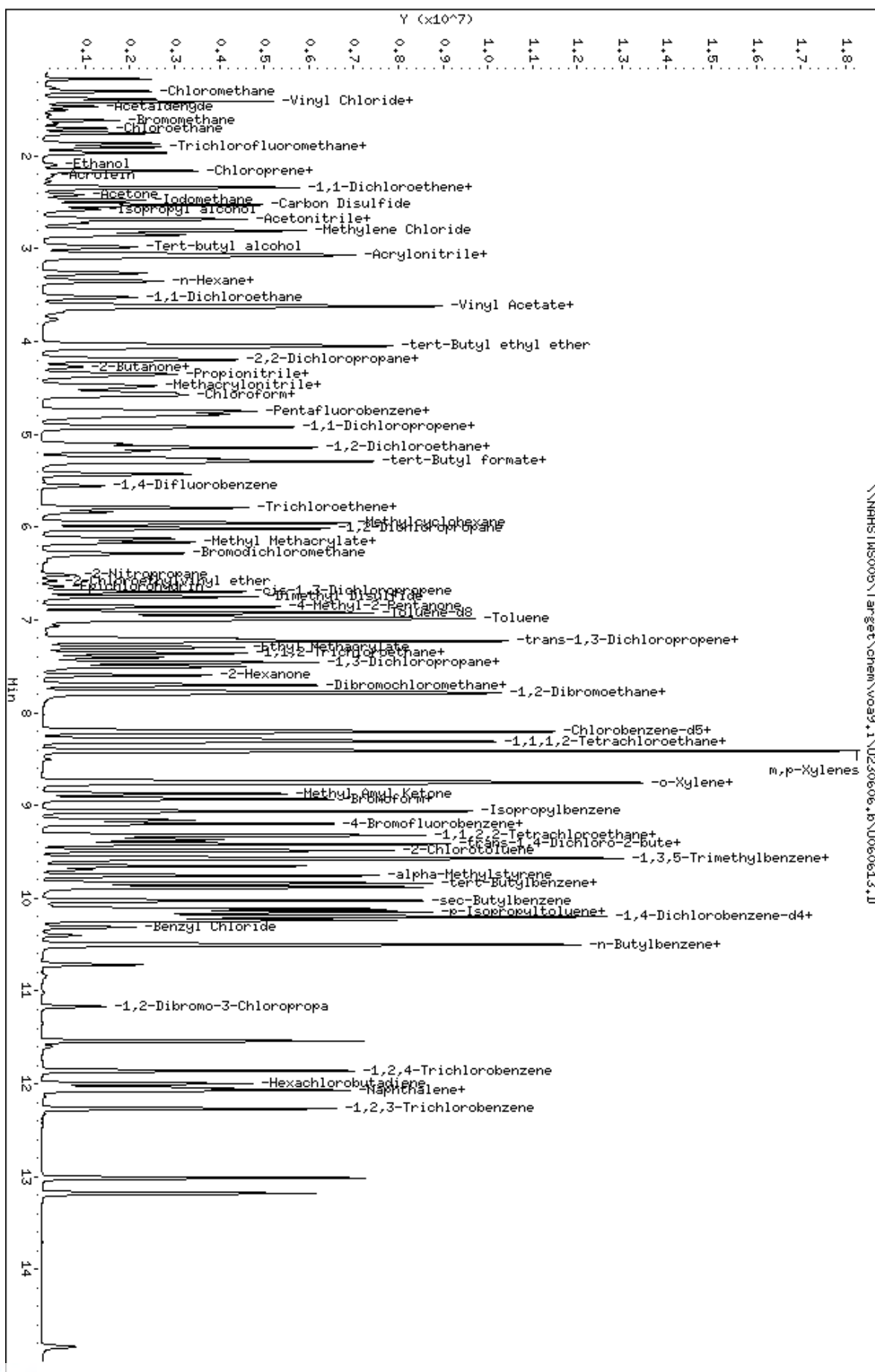
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Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	915431	200.000	215.98(A)
92 Naphthalene	128	12.069	12.069	(1.186)	5090967	200.000	208.82(A)
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	2101950	200.000	204.86(A)
M 94 1,2-Dichloroethylene (total)	96				2593854	400.000	(a)
135 1,4-Dioxane	88	6.172	6.172	(1.281)	359619	4000.00	2517.91
141 Cyclohexane	56	4.785	4.785	(0.993)	1948136	200.000	200.21(A)
138 Freon TF	101	2.341	2.341	(0.486)	1062416	200.000	219.92(A)
140 1,3-Butadiene	54	1.412	1.412	(0.293)	1426460	200.000	209.40(A)
147 Methylcyclohexane	55	5.951	5.951	(1.071)	3311608	200.000	218.86(A)
146 Methyl Acetate	43	2.720	2.720	(0.564)	1087855	200.000	179.61
148 Tert-Butyl alcohol	59	2.978	2.978	(0.618)	2615413	4000.00	3949.93
149 Isopropyl Alcohol	45	2.577	2.577	(0.535)	1712648	4000.00	3642.22
72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	280535	200.000	229.67(A)
12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	3974379	4000.00	4252.69(AM)
13 Acetonitrile	39	2.679	2.679	(0.556)	1502696	2000.00	1929.63
14 Allyl Chloride	41	2.679	2.679	(0.556)	3531503	200.000	189.10
25 Methacrylonitrile	41	4.500	4.500	(0.934)	862110	200.000	202.86(A)
40 Methyl Methacrylate	41	6.161	6.161	(1.278)	1311723	200.000	212.09(A)
4 Propionitrile	54	4.350	4.350	(0.903)	1943419	2000.00	1869.76
136 n-Hexane	57	3.350	3.350	(0.695)	1358253	200.000	199.96
194 Acetaldehyde	44	1.464	1.464	(0.304)	813402	800.000	819.92(AM)
131 Methyl Acrylate	55	4.377	4.377	(0.908)	1518708	200.000	199.64(M)
200 Dimethyl Disulfide	94	6.750	6.750	(0.824)	2303909	200.000	196.98
23 Chloroprene	53	2.165	2.165	(0.449)	488469	200.000	212.92(A)
49 Ethyl Methacrylate	69	7.297	7.297	(1.313)	2085234	200.000	218.09(A)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	4057323	200.000	198.76
167 Ethanol	45	2.098	2.098	(0.435)	342926	4000.00	3885.10
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	5181324	200.000	200.01(A)
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	2162870	200.000	205.31(A)
142 Tetrahydrofuran	42	4.549	4.549	(0.944)	488623	400.000	391.34
156 Diisopropyl ether	45	3.631	3.631	(0.753)	3891038	200.000	194.00
151 4-Methyl-2-pentanol	45	7.226	7.226	(1.300)	6448455	4000.00	3975.75
150 Allyl alcohol	57	3.350	3.350	(0.695)	1358253	4000.00	3999.38
86 Benzyl Chloride	91	10.311	10.311	(1.259)	1346925	200.000	201.11(A)
162 Butyl acrylate	55	8.733	8.733	(1.066)	2685275	200.000	213.99(A)
139 Diethyl ether	59	2.154	2.154	(0.447)	970215	200.000	199.62
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	1300346	200.000	198.09
134 Cyclohexanone	55	9.156	9.156	(0.900)	1223605	4000.00	3716.65
130 Ethyl Acetate	43	4.272	4.272	(0.886)	1152217	200.000	179.20(M)
189 n-Butyl acetate	43	7.709	7.709	(0.941)	2542322	200.000	210.47(AM)
182 Epichlorohydrin	57	6.633	6.633	(1.194)	120896	800.000	793.08

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa9.i\U230606.b\U060613.D
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 Client ID: WSTD200
 Sample Info: WSTD200;WSTD200;11;10;
 Purge Volume: 5.0
 Column phase: DB624

Instrument: VOA9.i
 Operator: PC
 Column diameter: 0.18

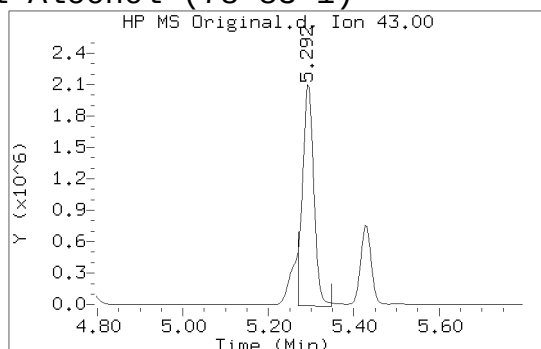


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Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

Isobutyl Alcohol (78-83-1)

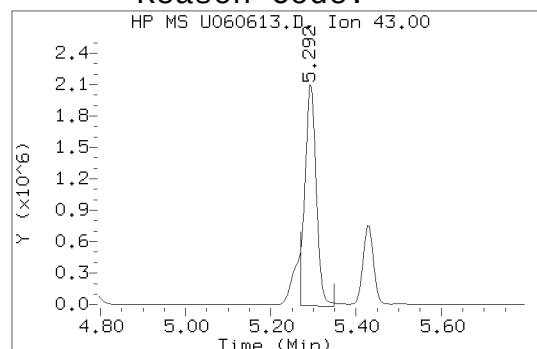
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08-Jun-2023
14:56
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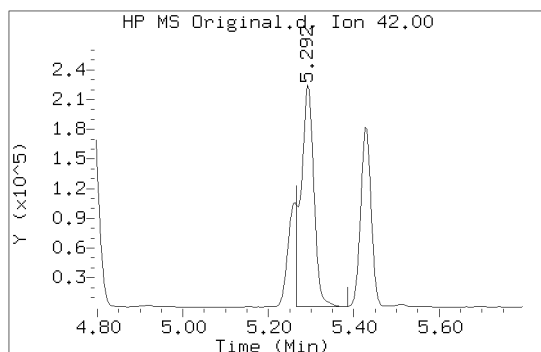
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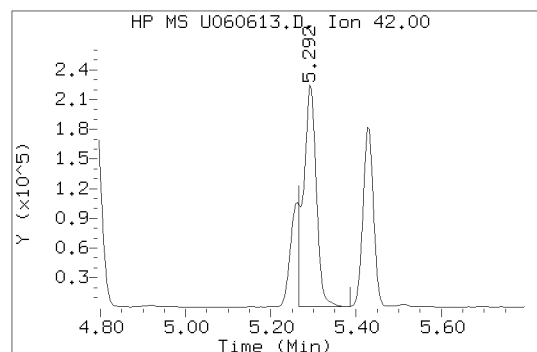
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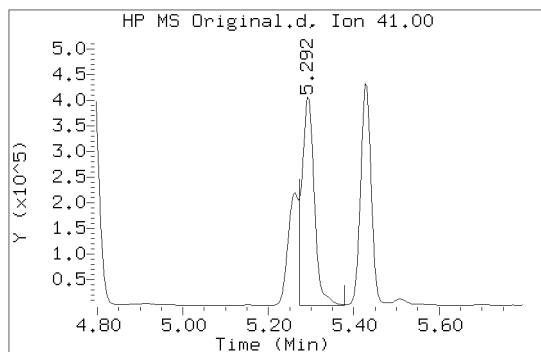
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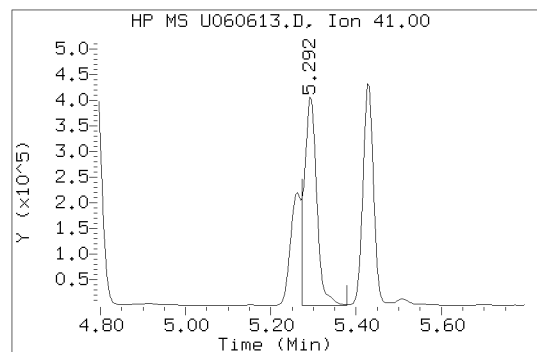
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AFTER

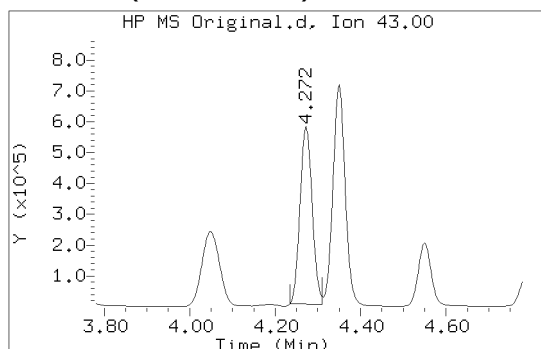
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Ethyl Acetate (141-78-6)

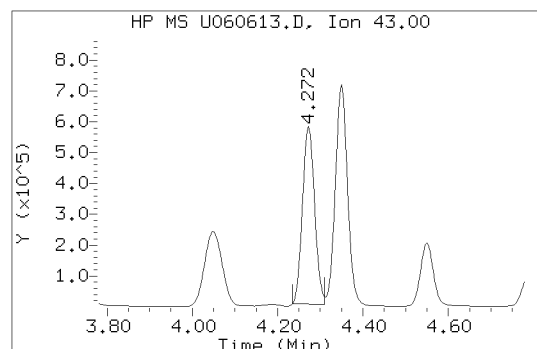
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AFTER

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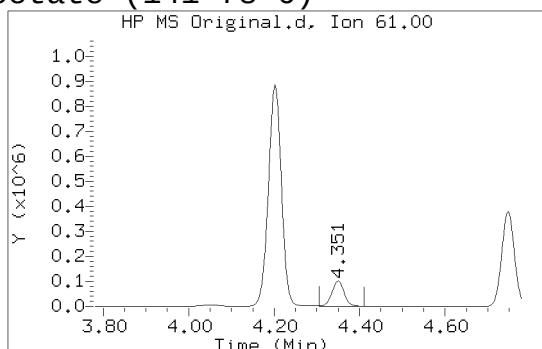


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InstruID : VOA9.i
LabSampID : VSTD200

Ethyl Acetate (141-78-6)

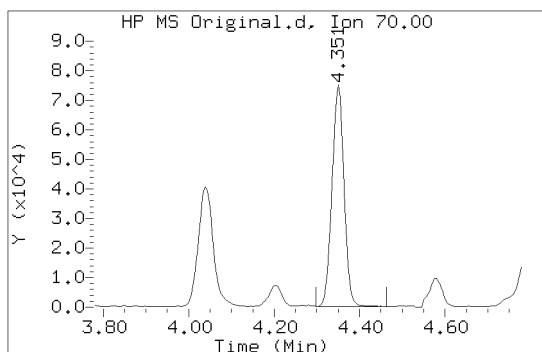
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BEFORE

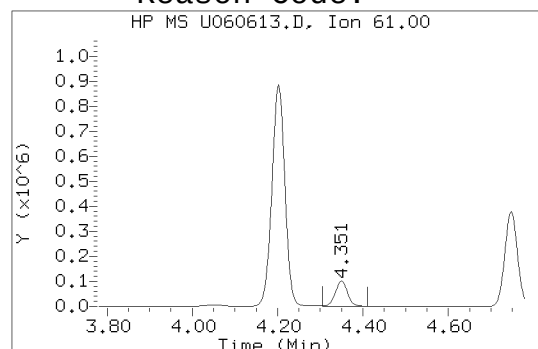
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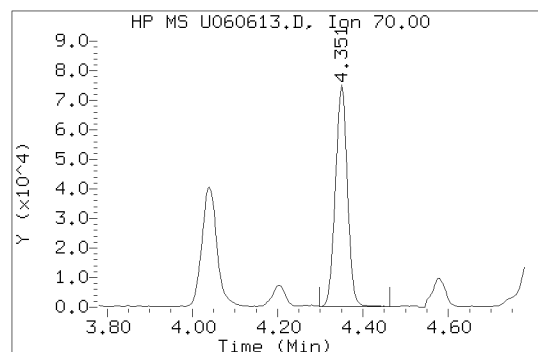
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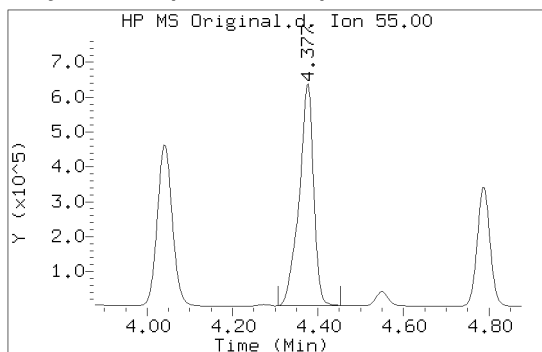
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Methyl Acrylate (96-33-3)

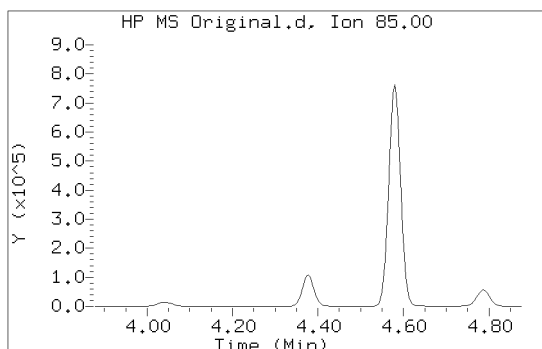
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BEFORE

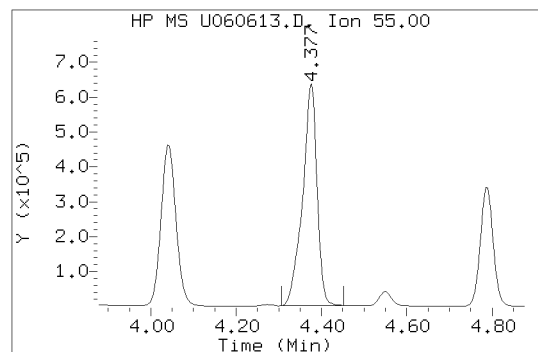
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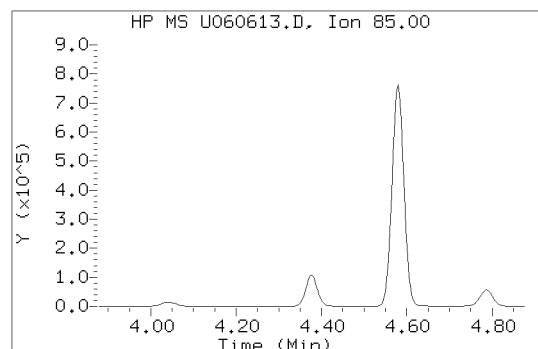
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AFTER

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13:00
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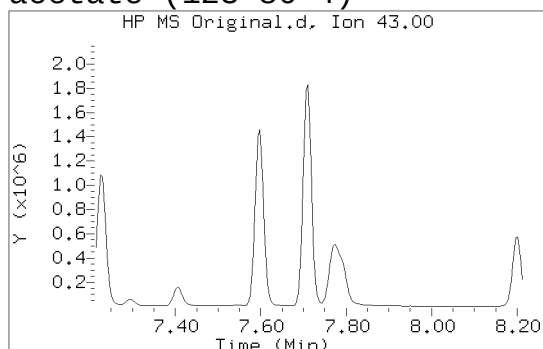


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 InstruID : VOA9.i
 LabSampID : VSTD200

n-Butyl acetate (123-86-4)

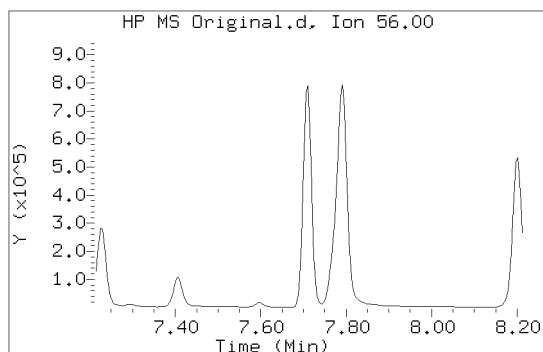
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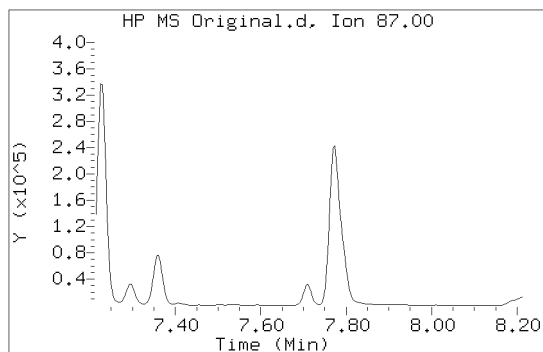
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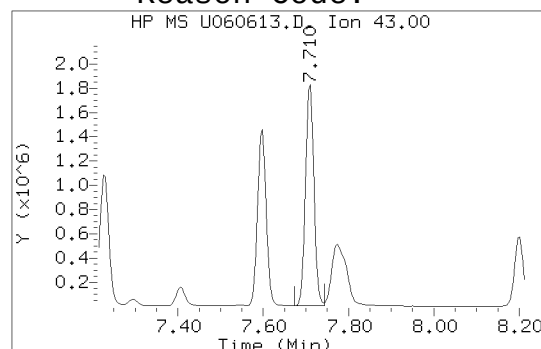
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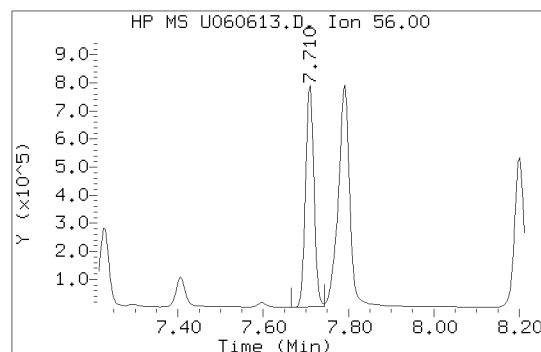
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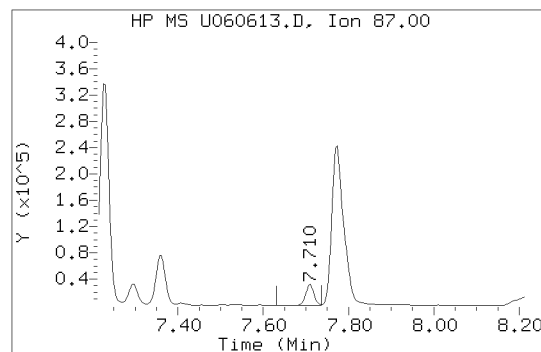
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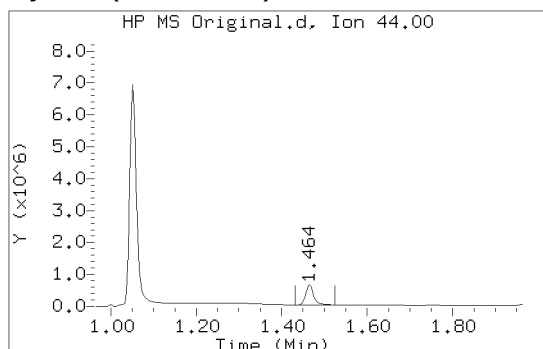
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13:00
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pham



Acetaldehyde (75-07-0)

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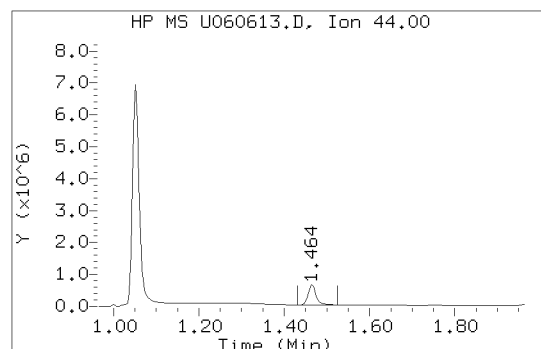
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Reason Code:

AFTER

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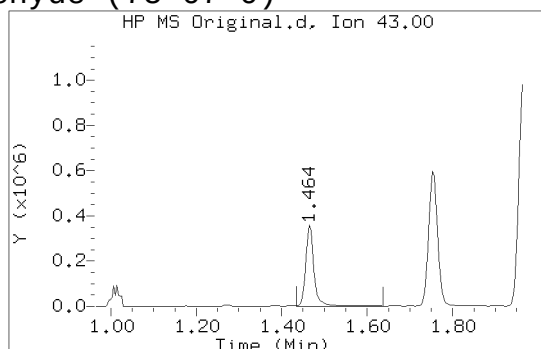


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Inj Date : 06-JUN-2023 15:41
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

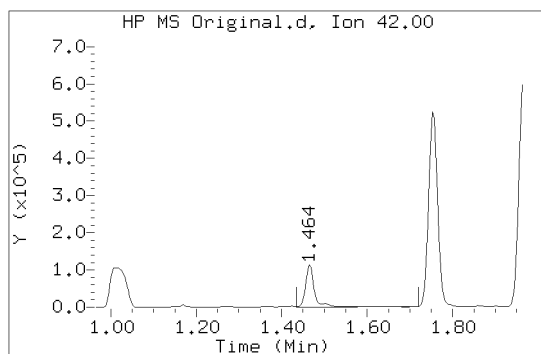
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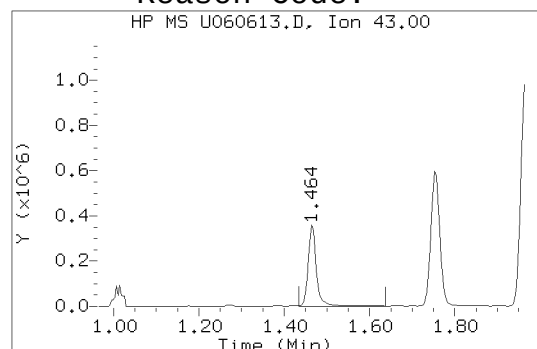
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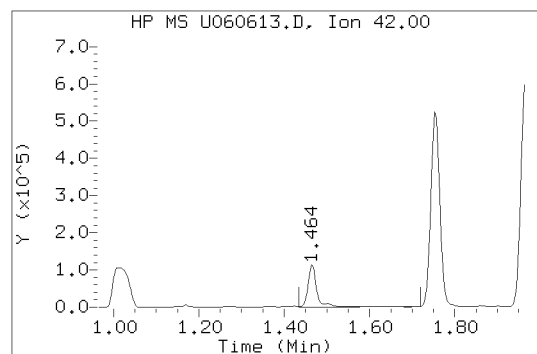
AFTER

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AFTER

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13-Jun-2023
13:00
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D Page 1
 Report Date: 13-Jun-2023 13:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D
 Lab Smp Id: ICV Client Smp ID: ICV
 Inj Date : 06-JUN-2023 16:48
 Operator : PC Inst ID: VOA9.i
 Smp Info : CCV;CCV;2;;;ICV
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230606.b\8260C.m
 Meth Date : 13-Jun-2023 13:01 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 15:41 Cal File: U060613.D
 Als bottle: 17 QC Sample: METHSPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Uf}/\text{Vo}) * 1 * \text{CpndVariable}$

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

		QUANT SIG				CONCENTRATIONS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168	4.815	4.819	(1.000)	780826	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.168	(0.241)	313326	43.4411	43.44
3 Chloromethane	50	1.295	1.303	(0.269)	478723	40.3986	40.39
5 Vinyl Chloride	62	1.374	1.382	(0.285)	368340	44.5978	44.59
6 Bromomethane	94	1.618	1.614	(0.336)	232986	55.0399	55.03
7 Chloroethane	64	1.696	1.700	(0.352)	239922	43.1235	43.12
8 Trichlorofluoromethane	101	1.895	1.903	(0.394)	416947	43.9550	43.95
9 Acrolein	56	2.263	2.270	(0.470)	36231	87.4197	87.41
10 Acetone	43	2.409	2.416	(0.500)	256579	95.4315	95.43
11 1,1-Dichloroethene	96	2.334	2.341	(0.485)	257583	43.4598	43.45
15 Iodomethane	142	2.469	2.472	(0.513)	390544	85.8965	85.89
16 Acrylonitrile	53	3.065	3.072	(0.636)	264231	91.2502	91.25
17 Methylene Chloride	84	2.795	2.799	(0.580)	325441	45.6146	45.61
18 Methyl tert-butyl ether	73	3.080	3.087	(0.640)	820662	45.1527	45.15
19 Carbon Disulfide	76	2.521	2.525	(0.524)	1475776	93.1400	93.13
20 trans-1,2-Dichloroethene	96	3.057	3.065	(0.635)	292795	45.4251	45.42
21 Vinyl Acetate	43	3.605	3.616	(0.749)	1831639	93.2206	93.22
22 1,1-Dichloroethane	63	3.515	3.522	(0.730)	503967	41.1420	41.14
24 2-Butanone	43	4.264	4.272	(0.886)	310116	87.1102	87.11
26 2,2-Dichloropropane	77	4.182	4.189	(0.868)	371756	45.9347	45.93



27 cis-1,2-Dichloroethene	96	4.197	4.204 (0.872)	341415	44.2752	44.27
28 Chloroform	83	4.572	4.579 (0.949)	560655	43.9760	43.97

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230606.b\U060616.D Page 2
 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
29 Bromochloromethane	128	4.470	4.474	(0.928)	193817	44.9336	44.93	
\$ 30 Dibromofluoromethane	113	4.748	4.755	(0.986)	318316	48.5594	48.55	
31 1,1,1-Trichloroethane	97	4.740	4.748	(0.984)	428686	44.1171	44.11	
32 1,1-Dichloropropene	75	4.920	4.924	(0.886)	386704	45.6635	45.66	
33 1,2-Dichloroethane	62	5.175	5.183	(0.932)	441937	44.1878	44.18	
34 Carbon Tetrachloride	117	4.909	4.917	(0.884)	345264	44.3847	44.38	
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.104	(1.059)	338506	47.7012	47.70	
* 36 1,4-Difluorobenzene	114	5.554	5.558	(1.000)	1155525	50.0000		
37 Benzene	78	5.138	5.141	(0.925)	1289605	46.3151	46.31	
38 Trichloroethene	130	5.790	5.790	(1.043)	360272	44.6411	44.64	
39 Bromodichloromethane	83	6.281	6.281	(1.131)	414478	47.7201	47.72	
41 2-Chloroethylvinyl ether	63	6.577	6.581	(1.184)	17278	82.2441	82.24(M)	
42 1,2-Dichloropropane	63	6.011	6.015	(1.082)	336299	45.2354	45.23	
44 Dibromomethane	93	6.120	6.124	(1.102)	214846	45.2290	45.22	
45 4-Methyl-2-Pentanone	43	6.855	6.858	(0.837)	752796	97.7283	97.72	
46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	520852	44.9600	44.95	
* 47 Chlorobenzene-d5	117	8.185	8.189	(1.000)	1057791	50.0000		
\$ 48 Toluene-d8	98	6.922	6.926	(0.846)	1235345	51.5999	51.59	
50 Toluene	91	6.982	6.982	(0.853)	1380191	48.1072	48.10	
51 trans-1,3-Dichloropropene	75	7.200	7.199	(1.296)	429650	44.2325	44.23	
52 2-Hexanone	43	7.593	7.597	(0.928)	496806	92.6111	92.61	
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	272556	45.6579	45.65	
54 1,3-Dichloropropane	76	7.499	7.503	(0.916)	578247	47.4115	47.41	
55 Dibromochloromethane	129	7.694	7.694	(0.940)	366836	51.7915	51.79	
56 Tetrachloroethene	164	7.458	7.458	(0.911)	318249	45.5291	45.52	
57 1,2-Dibromoethane	107	7.784	7.788	(0.951)	335864	45.6094	45.60	
58 1-Chlorohexane	55	8.197	8.200	(1.476)	242405	40.8537	40.85	
59 Chlorobenzene	112	8.208	8.212	(1.003)	941715	45.9914	45.99	
60 1,1,1,2-Tetrachloroethane	131	8.283	8.287	(1.012)	345385	49.0774	49.07	
61 Ethylbenzene	106	8.305	8.309	(1.015)	460758	48.3475	48.34	
62 m,p-Xylenes	106	8.410	8.410	(1.027)	1140862	101.183	101.18	
63 o-Xylene	106	8.748	8.748	(1.069)	558477	50.1380	50.13	
64 Styrene	104	8.763	8.763	(1.071)	935490	52.9214	52.92	
66 Bromoform	173	8.920	8.920	(1.090)	243942	51.0235	51.02	
67 Isopropylbenzene	105	9.063	9.063	(1.107)	1308769	48.9183	48.91	
68 1,1,2,2-Tetrachloroethane	83	9.329	9.332	(0.917)	454457	44.1598	44.15	
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	483743	51.3065	51.30	
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	547105	50.0000		
71 1,2,3-Trichloropropane	75	9.363	9.366	(0.920)	415776	45.9243	45.92	
73 n-Propylbenzene	91	9.411	9.415	(0.925)	1420825	49.5106	49.51	
74 Bromobenzene	156	9.318	9.321	(0.916)	421969	45.7115	45.71	
75 1,3,5-Trimethylbenzene	105	9.561	9.565	(0.940)	949218	48.2136	48.21	
76 2-Chlorotoluene	91	9.482	9.486	(0.932)	943175	46.7536	46.75	
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1080779	48.4010	48.40	
78 tert-Butylbenzene	119	9.839	9.839	(0.967)	902133	46.6540	46.65	
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	984625	47.7979	47.79	
81 sec-Butylbenzene	105	10.022	10.026	(0.985)	1146037	46.7345	46.73	
82 p-Isopropyltoluene	119	10.146	10.150	(0.997)	996804	48.5205	48.52	
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	724727	46.2241	46.22	
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	744273	44.5230	44.52	
87 n-Butylbenzene	91	10.491	10.495	(1.031)	805977	45.8271	45.82	
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	711620	45.2687	45.26	



89	1,2-Dibromo-3-Chloropropane	155	11.166	11.169 (1.098)	71438	47.5707	47.57
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	514361	47.5706	47.57



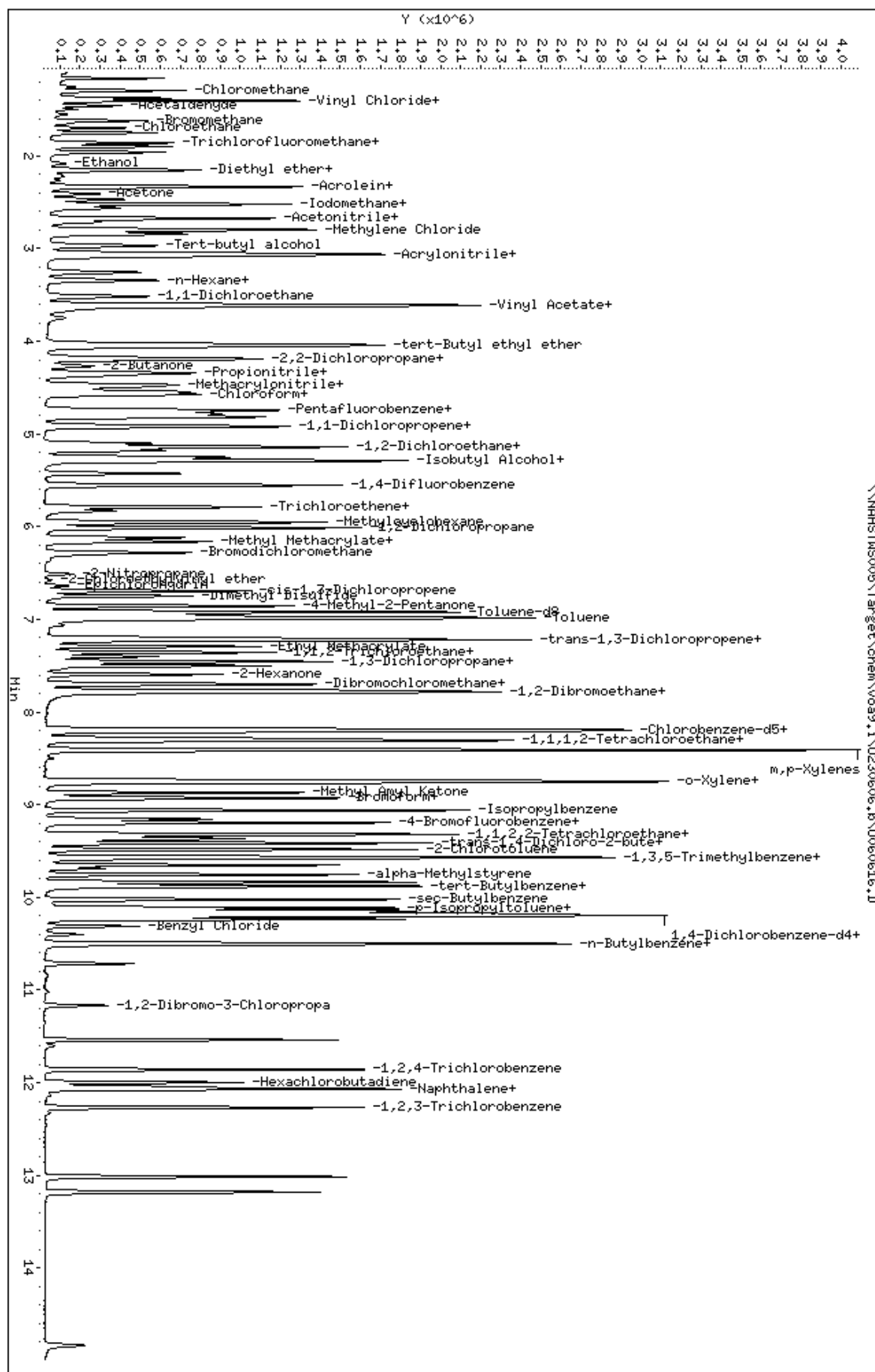
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 Report Date: 13-Jun-2023 13:01

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	185622	42.5095	42.50
92 Naphthalene	128	12.065	12.069	(1.186)	1281110	51.0072	51.00
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	500164	47.3173	47.31
M 94 1,2-Dichloroethylene (total)	96				634210	89.7003	89.70
M 95 Xylenes (total)	106				1699339	151.321	151.32
135 1,4-Dioxane	88	6.169	6.172	(1.281)	94832	611.650	611.64(R)
141 Cyclohexane	56	4.782	4.785	(0.993)	401902	42.0727	42.07
138 Freon TF	101	2.334	2.341	(0.485)	222912	42.5073	42.50
140 1,3-Butadiene	54	1.404	1.412	(0.292)	342878	46.3679	46.36
147 Methylcyclohexane	55	5.947	5.951	(1.071)	742238	46.3048	46.30
146 Methyl Acetate	43	2.712	2.720	(0.563)	267638	40.7078	40.70
148 Tert-Butyl alcohol	59	2.967	2.978	(0.616)	653389	905.196	905.19
149 Isopropyl Alcohol	45	2.562	2.577	(0.532)	432312	846.925	846.92
72 trans-1,4-Dichloro-2-butene	53	9.378	9.381	(1.146)	66066	54.2434	54.24
12 Isobutyl Alcohol	43	5.288	5.291	(1.098)	1078739	1063.31	1063.31
13 Acetonitrile	39	2.671	2.679	(0.555)	369725	437.354	437.35
14 Allyl Chloride	41	2.671	2.679	(0.555)	881221	43.4696	43.46
25 Methacrylonitrile	41	4.497	4.500	(0.934)	220001	47.6887	47.68
40 Methyl Methacrylate	41	6.157	6.161	(1.279)	319473	47.5853	47.58
4 Propionitrile	54	4.339	4.350	(0.901)	504761	447.359	447.35
136 n-Hexane	57	3.342	3.350	(0.694)	279959	43.1157	43.11
194 Acetaldehyde	44	1.457	1.464	(0.303)	213458	198.213	198.21(M)
131 Methyl Acrylate	55	4.369	4.377	(0.907)	376406	45.5808	45.58(M)
200 Dimethyl Disulfide	94	6.746	6.750	(0.824)	342782	43.9278	43.92
23 Chloroprene	53	2.158	2.165	(0.448)	106743	42.8616	42.86(M)
49 Ethyl Methacrylate	69	7.293	7.297	(1.313)	493833	48.7533	48.75
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	946548	45.0091	45.00
167 Ethanol	45	2.083	2.098	(0.433)	87414	894.820	894.81
164 Dicyclopentadiene	66	10.198	10.202	(1.003)	1170894	43.8737	43.87
145 alpha-Methylstyrene	118	9.752	9.756	(0.959)	456404	44.8638	44.86
142 Tetrahydrofuran	42	4.545	4.549	(0.944)	124728	90.2172	90.21
156 Diisopropyl ether	45	3.623	3.631	(0.752)	968924	44.5026	44.50
151 4-Methyl-2-pentanol	45	7.222	7.226	(1.300)	1465561	852.923	852.92
150 Allyl alcohol	57	3.342	3.350	(0.694)	279959	862.620	862.62
86 Benzyl Chloride	91	10.311	10.311	(1.260)	308230	48.8252	48.82
162 Butyl acrylate	55	8.733	8.733	(1.067)	606576	48.4779	48.47
139 Diethyl ether	59	2.143	2.154	(0.445)	236202	44.7701	44.77
203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	256043	48.8830	48.88
134 Cyclohexanone	55	9.153	9.156	(0.900)	315426	929.955	929.95
130 Ethyl Acetate	43	4.343	4.272	(0.902)	367738	52.6863	52.68
189 n-Butyl acetate	43	7.706	7.709	(0.941)	585580	48.6187	48.61(M)
182 Epichlorohydrin	57	6.633	6.633	(1.194)	19670	179.479	179.47

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.





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 Client ID: ICV
 Sample Info: CCV;CCV;2;;ICV
 Purge Volume: 5.0
 Column phase: DB624

\\NAHSTMS005\Target\chem\voa3.i\U230606.b\U060616.D

Instrument: VDA9.1
 Operator: PC
 Column diameter: 0.18

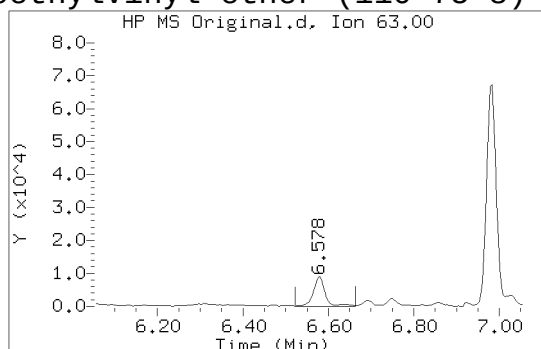


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InstruID : VOA9.i
LabSampID : ICV

2-Chloroethylvinyl ether (110-75-8)

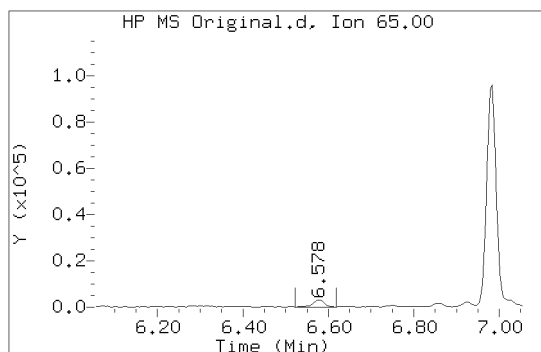
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08-Jun-2023
14:56
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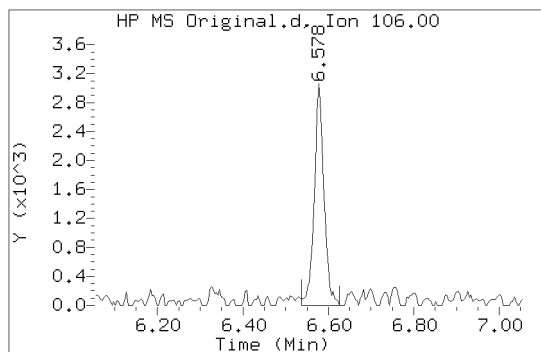
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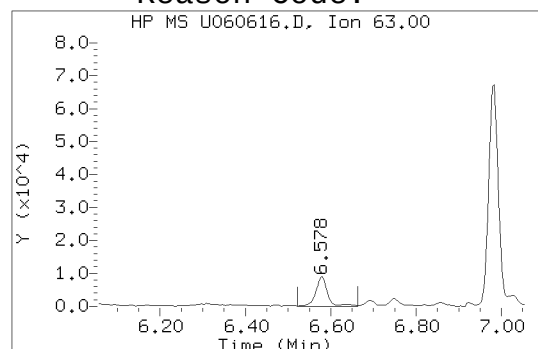
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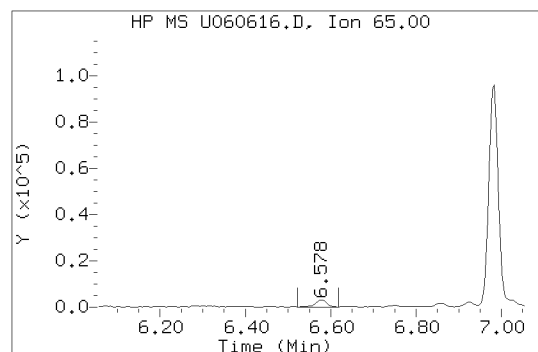
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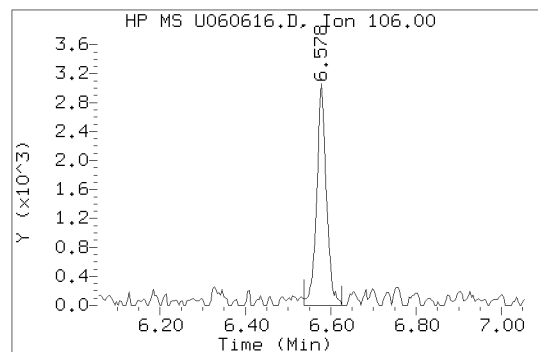
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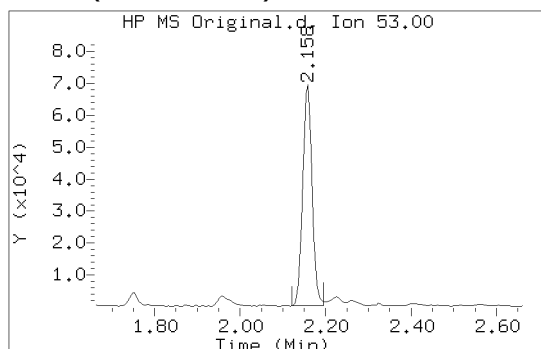
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Chloroprene (126-99-8)

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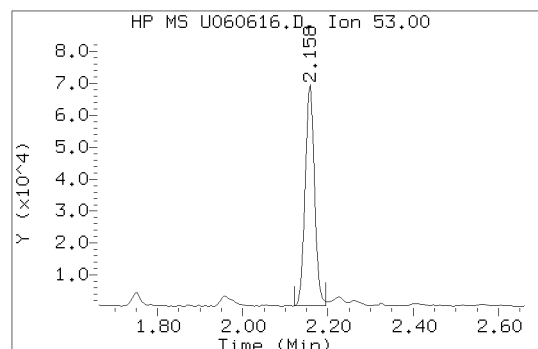
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Reason Code:

AFTER

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13-Jun-2023
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pham

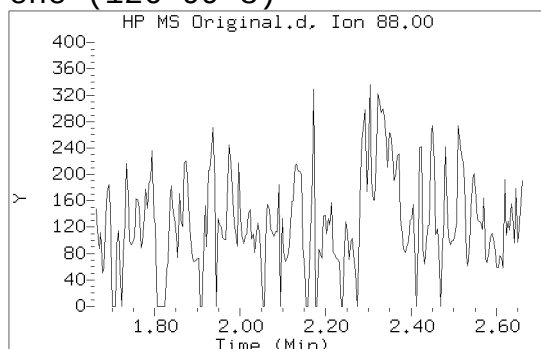


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InstruID : VOA9.i
LabSampID : ICV

Chloroprene (126-99-8)

BEFORE

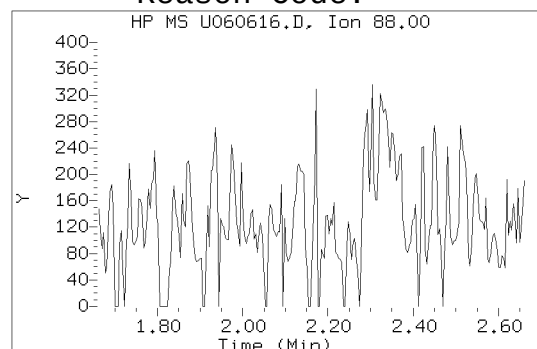
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08-Jun-2023
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pham



AFTER

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13-Jun-2023
13:00
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pham

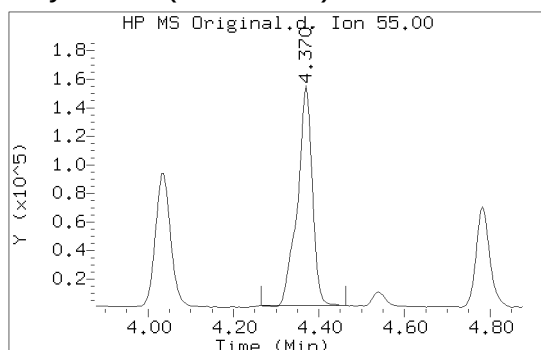
Reason Code:



Methyl Acrylate (96-33-3)

BEFORE

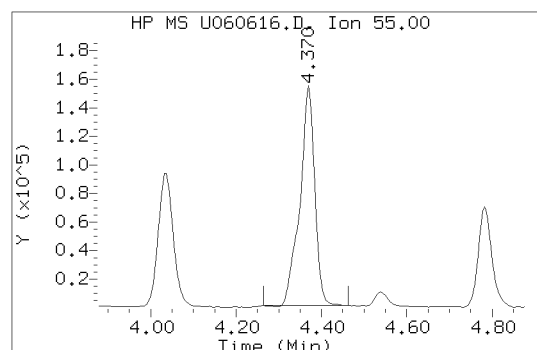
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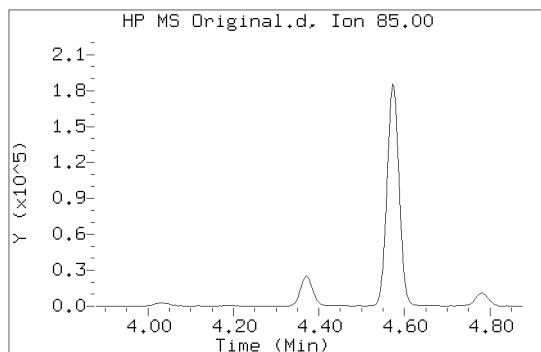
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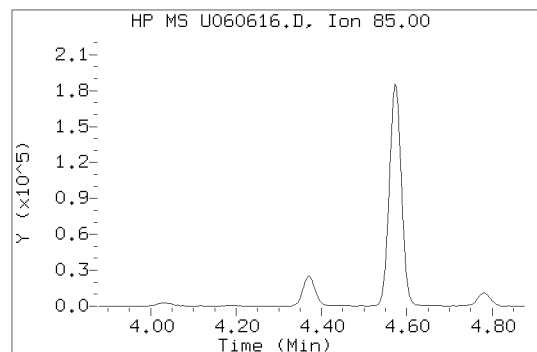
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AFTER

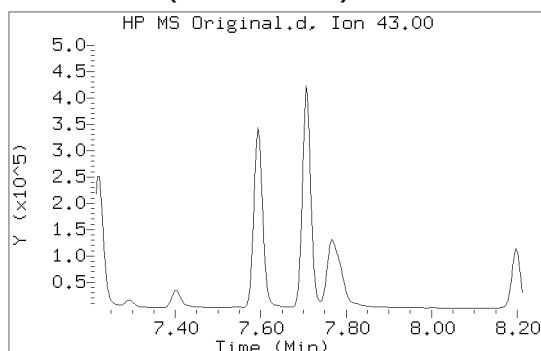
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pham



n-Butyl acetate (123-86-4)

BEFORE

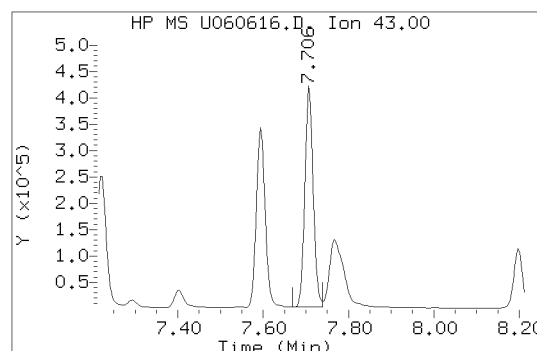
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AFTER

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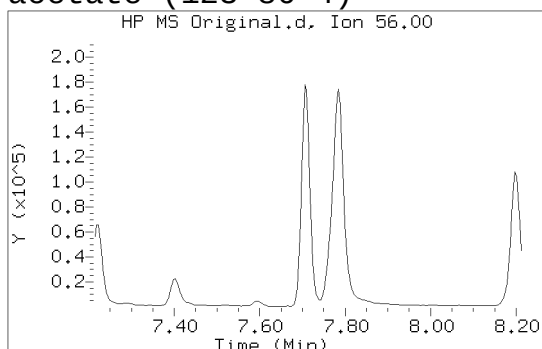
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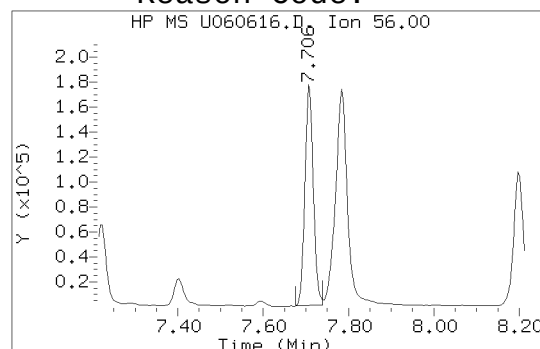
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InstruID : VOA9.i
LabSampID : ICV

n-Butyl acetate (123-86-4)**BEFORE**

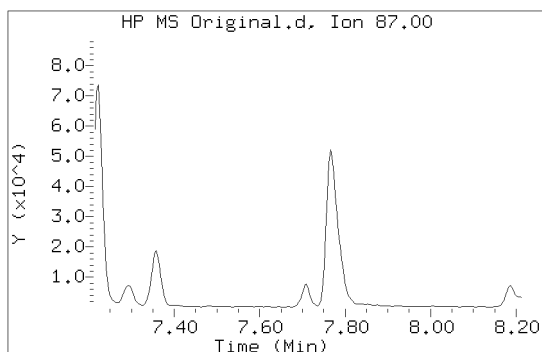
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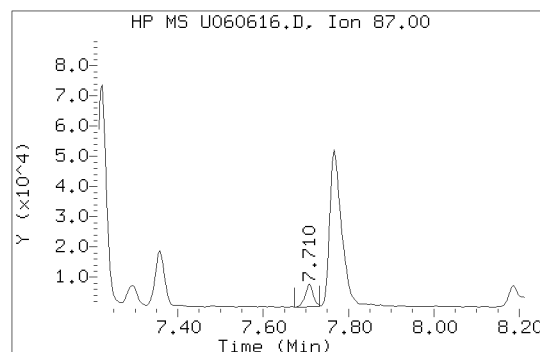
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**BEFORE**

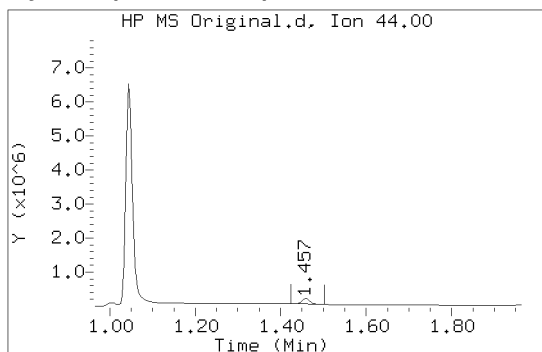
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14:56
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pham

**AFTER**

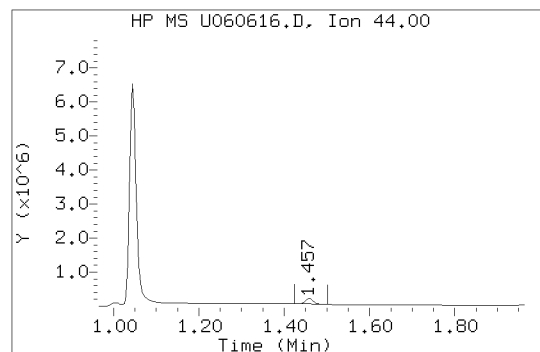
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pham

**Acetaldehyde (75-07-0)****BEFORE**

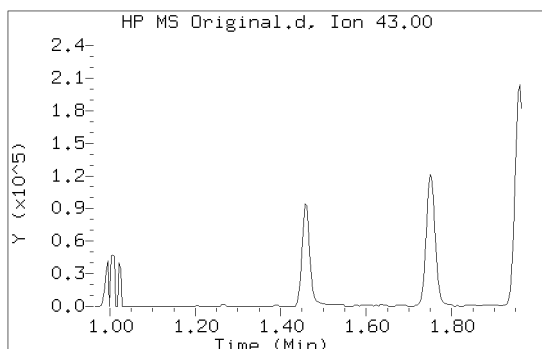
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**AFTER**

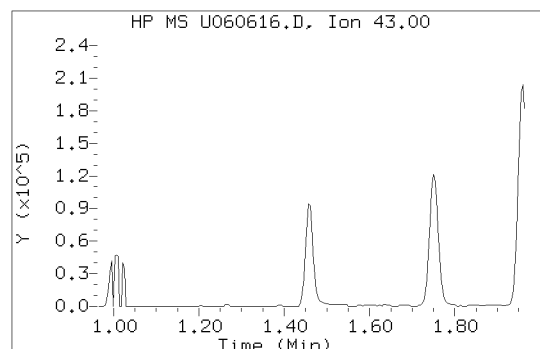
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13-Jun-2023
13:00
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pham

**BEFORE**

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08-Jun-2023
14:56
linh
pham

**AFTER**

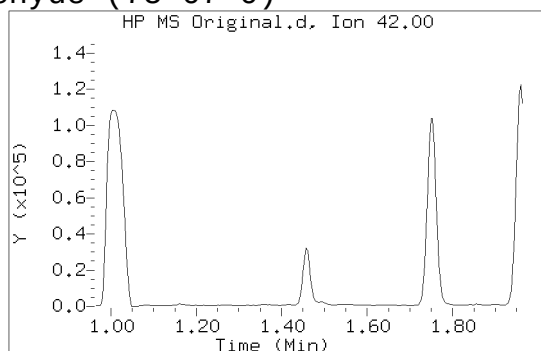
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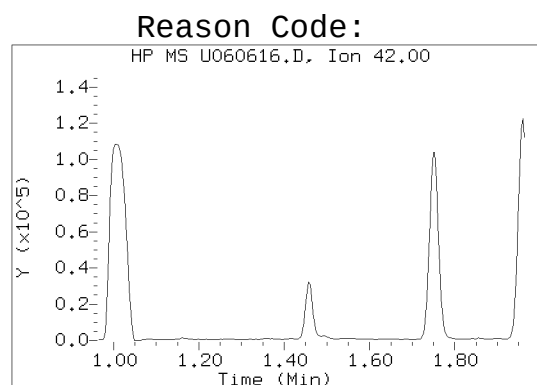
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Inj Date : 06-JUN-2023 16:48
InstruID : VOA9.i
LabSampID : ICV

Acetaldehyde (75-07-0)**BEFORE**

MASS
42
AREA
0
HEIGHT
0
08-Jun-2023
14:56
linh
pham

**AFTER**

MASS
42
AREA
0
HEIGHT
0
13-Jun-2023
13:00
linh
pham





Raw Data VOA9 437473

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060801.D Page 1
 Report Date: 08-Jun-2023 22:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060801.D
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 Inj Date : 08-JUN-2023 10:42
 Operator : PC Inst ID: VOA9.i
 Smp Info : BFB;BFB;3;;BFB
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\bfb.m
 Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
 Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: NAHSTW7051

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

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

CONCENTRATIONS									
				ON-COL		FINAL			
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb				CAS #: 460-00-4					
9.194	9.180 (0.000)		95	238016			0.00-	100.00	100.00
9.194	9.180 (0.000)		50	42360			15.00-	40.00	17.80
9.194	9.180 (0.000)		75	113336			30.00-	60.00	47.62
9.194	9.180 (0.000)		96	16305			5.00-	9.00	6.85
9.194	9.180 (0.000)		173	0	0.0	0.0	0.00-	2.00	0.00
9.194	9.180 (0.000)		174	224320			50.00-	0.00	94.25
9.194	9.180 (0.000)		175	19528			5.00-	9.00	8.71
9.194	9.180 (0.000)		176	216960			95.00-	101.00	96.72
9.194	9.180 (0.000)		177	15025			5.00-	9.00	6.93



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.80
75	30.00 - 60.00% of mass 95	47.62
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	94.25
175	5.00 - 9.00% of mass 174	8.20 (8.71)
176	95.00 - 101.00% of mass 174	91.15 (96.72)
177	5.00 - 9.00% of mass 176	6.31 (6.93)

Data File: U060801.D
 Spectrum: Scan 2294 (9.19)
 Location of Maximum: 95.00
 Number of points: 174

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38.00	10264	82.00	1378	122.10	203	168.90	116
39.00	6551	83.00	773	123.00	70	169.60	116
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42.00	5335	85.00	200	125.60	111	173.90	224320
43.00	6866	86.00	574	126.90	2110	175.00	19528
44.00	3611	86.90	9832	127.90	1526	175.90	216960
45.00	5687	88.00	9635	128.80	450	176.90	15025
46.10	434	89.60	126	129.90	1029	177.80	334
47.10	3449	90.90	995	130.90	447	179.00	100
48.00	1764	92.00	5972	131.70	59	183.80	204
49.00	9420	93.00	9324	133.80	67	185.90	2400
50.00	42360	94.00	28408	134.90	542	186.80	73
51.00	13992	95.00	238016	135.80	147	188.30	55
52.00	701	96.00	16305	136.90	411	192.10	81
53.00	577	96.90	634	139.10	216	193.00	52
54.00	523	98.00	2314	140.00	314	199.90	73
55.00	5653	99.10	208	140.90	2594	203.00	51
56.00	4178	99.70	78	141.90	2424	204.90	62
57.00	7377	100.60	78	142.90	2392	205.80	110
58.00	2057	101.00	105	143.90	222	206.80	164
59.00	10352	101.90	95	144.90	353	211.10	63
60.00	2479	102.90	277	145.90	448	228.20	54
61.00	10672	103.90	1011	146.70	216	233.20	91
62.00	9905	104.90	772	147.90	766	233.70	89
63.00	7602	105.90	1089	148.90	190	235.90	121
64.00	810	106.80	837	149.80	276	238.10	57
64.90	412	107.80	89	150.90	80	245.40	88
65.90	193	108.90	601	151.90	187	253.80	72
66.90	1013	109.70	215	152.90	267	257.80	64
68.00	22096	110.10	251	153.90	223	264.40	75
69.00	23256	110.60	210	154.80	558	273.40	62
70.00	3170	111.00	168	155.80	57	280.30	72
70.90	315	111.70	195	156.80	410	281.00	68
71.90	1405	113.00	239	157.50	153	310.30	55
73.00	10351	114.00	63	158.00	87	311.00	51
74.00	38528	115.00	304	158.90	376	313.50	74
75.00	113336	115.90	670	160.80	292	329.20	55
76.00	10044	116.80	1515	163.00	101	330.00	76
77.00	1606	117.90	906	165.20	60	335.60	54
77.90	1273	118.80	1175	166.40	109		
78.90	6138	119.90	224	167.10	130		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060801.D

Page 1

Date : 08-JUN-2023 10:42

Client ID: BFB

Instrument: VOA9.i

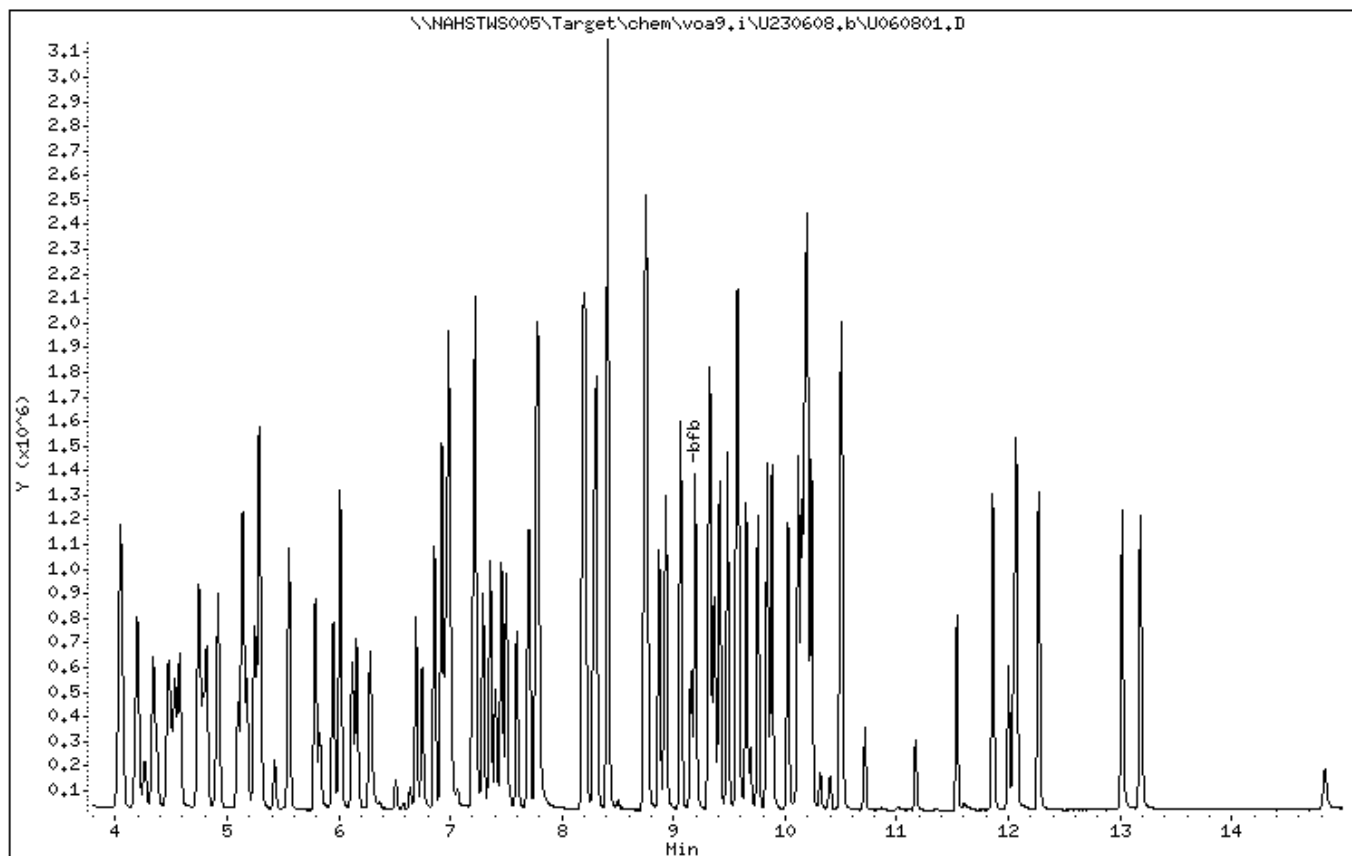
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060801.D

Page 2

Date : 08-JUN-2023 10:42

Client ID: BFB

Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

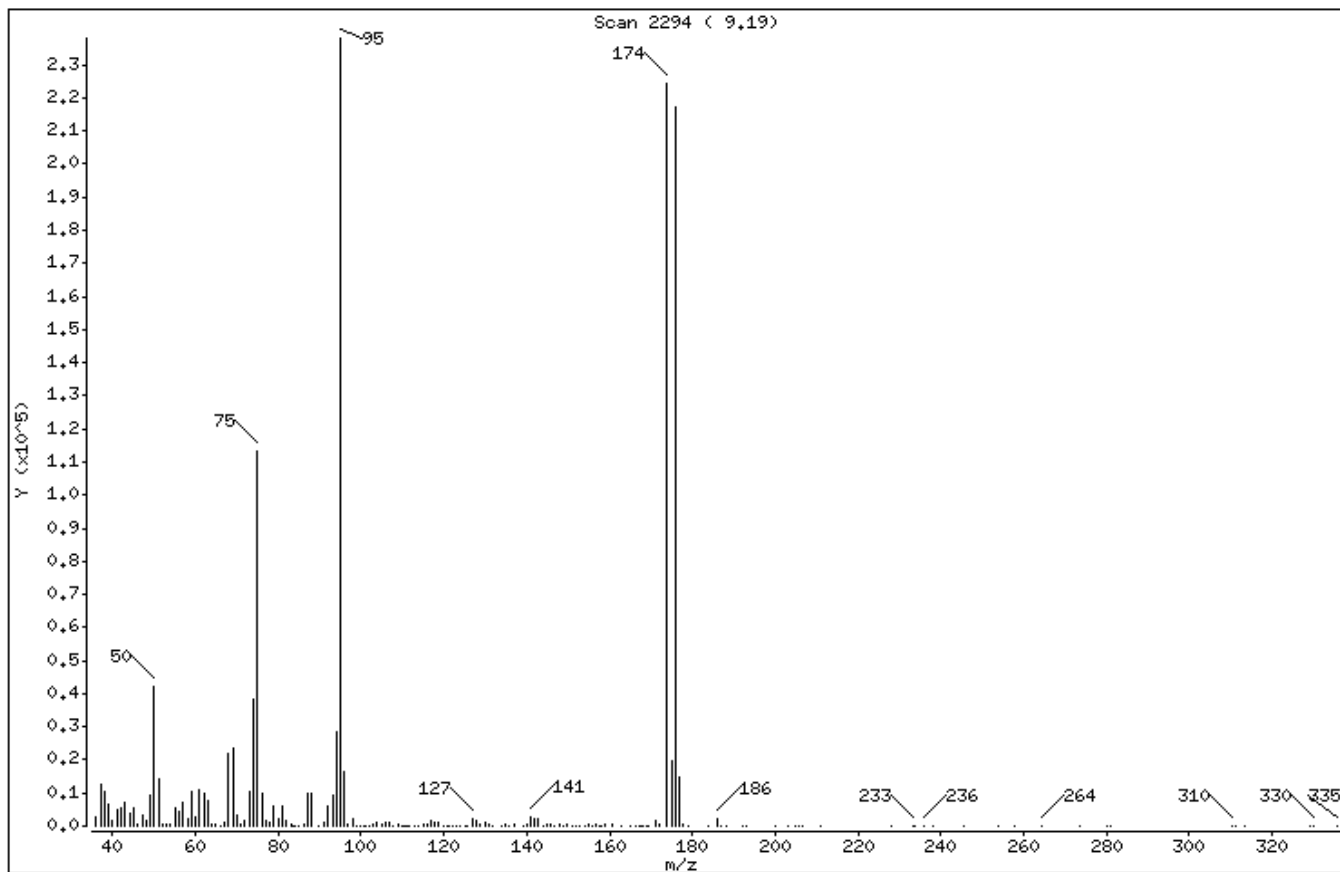
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0,25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.80
75	30.00 - 60.00% of mass 95	47.62
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	94.25
175	5.00 - 9.00% of mass 174	8.20 (8.71)
176	95.00 - 101.00% of mass 174	91.15 (96.72)
177	5.00 - 9.00% of mass 176	6.31 (6.93)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060801.D

Page 3

Date : 08-JUN-2023 10:42

Client ID: BFB

Instrument: VOA9.i

Sample Info: BFB;BFB;3;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: U060801.D
 Spectrum: Scan 2294 (9.19)
 Location of Maximum: 95.00
 Number of points: 174

m/z	Y	m/z	Y	m/z	Y	m/z	Y

36.00	2989	80.00	1935	120.60	116	167.70	197
37.00	12483	80.90	6152	121.20	158	168.20	122
38.00	10264	82.00	1378	122.10	203	168.90	116
39.00	6551	83.00	773	123.00	70	169.60	116
40.00	1397	83.80	154	123.80	241	171.00	1571

41.00	4841	84.20	175	125.20	89	172.10	758
42.00	5335	85.00	200	125.60	111	173.90	224320
43.00	6866	86.00	574	126.90	2110	175.00	19528
44.00	3611	86.90	9832	127.90	1526	175.90	216960
45.00	5687	88.00	9635	128.80	450	176.90	15025

46.10	434	89.60	126	129.90	1029	177.80	334
47.10	3449	90.90	995	130.90	447	179.00	100
48.00	1764	92.00	5972	131.70	59	183.80	204
49.00	9420	93.00	9324	133.80	67	185.90	2400
50.00	42360	94.00	28408	134.90	542	186.80	73

51.00	13992	95.00	238016	135.80	147	188.30	55
52.00	701	96.00	16305	136.90	411	192.10	81
53.00	577	96.90	634	139.10	216	193.00	52
54.00	523	98.00	2314	140.00	314	199.90	73
55.00	5653	99.10	208	140.90	2594	203.00	51

56.00	4178	99.70	78	141.90	2424	204.90	62
57.00	7377	100.60	78	142.90	2392	205.80	110
58.00	2057	101.00	105	143.90	222	206.80	164
59.00	10352	101.90	95	144.90	353	211.10	63
60.00	2479	102.90	277	145.90	448	228.20	54

61.00	10672	103.90	1011	146.70	216	233.20	91
62.00	9905	104.90	772	147.90	766	233.70	89
63.00	7602	105.90	1089	148.90	190	235.90	121
64.00	810	106.80	837	149.80	276	238.10	57
64.90	412	107.80	89	150.90	80	245.40	88

65.90	193	108.90	601	151.90	187	253.80	72
66.90	1013	109.70	215	152.90	267	257.80	64
68.00	22096	110.10	251	153.90	223	264.40	75
69.00	23256	110.60	210	154.80	558	273.40	62
70.00	3170	111.00	168	155.80	57	280.30	72



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060801.D

Page 4

Date : 08-JUN-2023 10:42

Client ID: BFB

Instrument: V0A9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: U060801.D

Spectrum: Scan 2294 (9.19)

Location of Maximum: 95.00

Number of points: 174

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.90	315	111.70	195	156.80	410	281.00	68
71.90	1405	113.00	239	157.50	153	310.30	55
73.00	10351	114.00	63	158.00	87	311.00	51
74.00	38528	115.00	304	158.90	376	313.50	74
75.00	113336	115.90	670	160.80	292	329.20	55
76.00	10044	116.80	1515	163.00	101	330.00	76
77.00	1606	117.90	906	165.20	60	335.60	54
77.90	1273	118.80	1175	166.40	109		
78.90	6138	119.90	224	167.10	130		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060803.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060803.D
 Lab Smp Id: CCV Client Smp ID: CCV
 Inj Date : 08-JUN-2023 11:26
 Operator : PC Inst ID: VOA9.i
 Smp Info : CCV;CCV;2;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	706029	50.0000	
2 Dichlorodifluoromethane	85	1.157	1.157	(0.240)	299077	50.0000	45.85
3 Chloromethane	50	1.288	1.288	(0.268)	476833	50.0000	44.63
5 Vinyl Chloride	62	1.370	1.370	(0.285)	356391	50.0000	47.72
6 Bromomethane	94	1.610	1.610	(0.335)	200227	50.0000	52.22
7 Chloroethane	64	1.693	1.693	(0.352)	223568	50.0000	44.44
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	413582	50.0000	48.21
9 Acrolein	56	2.259	2.259	(0.469)	32851	100.000	87.66
10 Acetone	43	2.401	2.401	(0.499)	239784	100.000	98.82
11 1,1-Dichloroethene	96	2.326	2.326	(0.484)	250331	50.0000	46.71
15 Iodomethane	142	2.461	2.461	(0.512)	415270	100.000	98.60
16 Acrylonitrile	53	3.061	3.061	(0.636)	253418	100.000	96.78
17 Methylene Chloride	84	2.787	2.787	(0.579)	308140	50.0000	47.81
18 Methyl tert-butyl ether	73	3.072	3.072	(0.639)	773192	50.0000	47.04
19 Carbon Disulfide	76	2.514	2.514	(0.522)	1414354	100.000	98.72
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	279158	50.0000	47.89
21 Vinyl Acetate	43	3.601	3.601	(0.748)	1724462	100.000	97.06
22 1,1-Dichloroethane	63	3.511	3.511	(0.730)	492214	50.0000	44.43
24 2-Butanone	43	4.260	4.260	(0.885)	288759	100.000	89.70
26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	365908	50.0000	49.96



27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	322828	50.0000	46.29
28 Chloroform	83	4.568	4.568 (0.949)	514466	50.0000	44.62

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060803.D Page 2
 Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.467	4.467	(0.928)	171993	50.0000	44.09
\$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	297694	50.0000	50.23
31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	418082	50.0000	47.58
32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	383404	50.0000	50.55
33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	424587	50.0000	47.40
34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	348725	50.0000	50.05
\$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	310709	50.0000	48.43
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	1034895	50.0000	
37 Benzene	78	5.138	5.138	(0.926)	1225119	50.0000	49.12
38 Trichloroethene	130	5.786	5.786	(1.043)	353367	50.0000	48.88
39 Bromodichloromethane	83	6.277	6.277	(1.131)	393824	50.0000	50.62
41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	15218	100.000	80.88(M)
42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	323326	50.0000	48.55
44 Dibromomethane	93	6.120	6.120	(1.103)	205220	50.0000	48.23
45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	716432	100.000	99.55
46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	488414	50.0000	46.98
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	988227	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1136209	50.0000	50.79
50 Toluene	91	6.978	6.978	(0.853)	1335181	50.0000	49.81
51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	413329	50.0000	47.36
52 2-Hexanone	43	7.593	7.593	(0.928)	466670	100.000	93.11
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	259448	50.0000	46.52
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	549250	50.0000	48.20
55 Dibromochloromethane	129	7.690	7.690	(0.940)	351289	50.0000	53.08
56 Tetrachloroethene	164	7.458	7.458	(0.911)	317241	50.0000	48.57
57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	327459	50.0000	47.59
58 1-Chlorohexane	55	8.197	8.197	(1.477)	245456	50.0000	46.18
59 Chlorobenzene	112	8.208	8.208	(1.003)	921313	50.0000	48.16
60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	329276	50.0000	50.08
61 Ethylbenzene	106	8.305	8.305	(1.015)	452867	50.0000	50.86
62 m,p-Xylenes	106	8.410	8.410	(1.027)	1111130	100.000	105.48
63 o-Xylene	106	8.748	8.748	(1.069)	542859	50.0000	52.16
64 Styrene	104	8.763	8.763	(1.071)	922114	50.0000	55.83
66 Bromoform	173	8.920	8.920	(1.090)	238192	50.0000	53.32
67 Isopropylbenzene	105	9.062	9.062	(1.107)	1291753	50.0000	51.68
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	443372	50.0000	45.83
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	457343	50.0000	51.93
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	514206	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	398959	50.0000	46.88
73 n-Propylbenzene	91	9.411	9.411	(0.925)	1394454	50.0000	51.70
74 Bromobenzene	156	9.317	9.317	(0.916)	412405	50.0000	47.53
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	909257	50.0000	49.13
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	933806	50.0000	49.25
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1055520	50.0000	50.29
78 tert-Butylbenzene	119	9.838	9.838	(0.967)	880296	50.0000	48.43
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	929359	50.0000	48.00
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	1139355	50.0000	49.43
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	960707	50.0000	49.75
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	697129	50.0000	47.30
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	727805	50.0000	46.32
87 n-Butylbenzene	91	10.491	10.491	(1.031)	801138	50.0000	48.46
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	695082	50.0000	47.04



89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	68171	50.0000	48.29
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	489876	50.0000	48.20



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060803.D Page 3
Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	192601	50.0000	46.92
92 Naphthalene	128	12.069	12.069	(1.186)	1213151	50.0000	51.39
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	470767	50.0000	47.38
M 94 1,2-Dichloroethylene (total)	96				601986	100.000	(a)
135 1,4-Dioxane	88	6.169	6.169	(1.282)	88577	1000.00	631.83
141 Cyclohexane	56	4.778	4.778	(0.993)	411017	50.0000	47.42
138 Freon TF	101	2.330	2.330	(0.484)	229754	50.0000	48.45
140 1,3-Butadiene	54	1.396	1.396	(0.290)	330871	50.0000	49.48
147 Methylcyclohexane	55	5.947	5.947	(1.072)	739347	50.0000	51.50
146 Methyl Acetate	43	2.705	2.705	(0.562)	263531	50.0000	44.32
148 Tert-Butyl alcohol	59	2.960	2.960	(0.615)	623727	1000.00	955.92
149 Isopropyl Alcohol	45	2.555	2.555	(0.531)	405420	1000.00	878.38
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	59870	50.0000	52.61
12 Isobutyl Alcohol	43	5.288	5.288	(1.099)	1030655	1000.00	1123.54
13 Acetonitrile	39	2.667	2.667	(0.554)	361717	500.000	473.21
14 Allyl Chloride	41	2.667	2.667	(0.554)	855338	50.0000	46.66
25 Methacrylonitrile	41	4.493	4.493	(0.934)	202204	50.0000	48.47
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	297649	50.0000	49.03
4 Propionitrile	54	4.335	4.335	(0.901)	464379	500.000	455.17
136 n-Hexane	57	3.338	3.338	(0.694)	293846	50.0000	49.81
131 Methyl Acrylate	55	4.365	4.365	(0.907)	346120	50.0000	46.35(M)
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	315769	50.0000	43.40
23 Chloroprene	53	2.150	2.150	(0.447)	105585	50.0000	46.88(M)
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	454035	50.0000	50.04
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	934751	50.0000	47.29
167 Ethanol	45	2.075	2.075	(0.431)	84771	1000.00	961.35
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	1234574	50.0000	49.21
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	440072	50.0000	45.93
142 Tetrahydrofuran	42	4.542	4.542	(0.944)	110923	100.000	88.69
156 Diisopropyl ether	45	3.616	3.616	(0.751)	924638	50.0000	46.96
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	1404931	1000.00	912.94
150 Allyl alcohol	57	3.338	3.338	(0.694)	293846	1000.00	996.45
86 Benzyl Chloride	91	10.311	10.311	(1.260)	287657	50.0000	48.77
162 Butyl acrylate	55	8.733	8.733	(1.067)	571374	50.0000	48.87
139 Diethyl ether	59	2.139	2.139	(0.445)	226339	50.0000	47.44
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	257351	50.0000	51.98
134 Cyclohexanone	55	9.156	9.156	(0.900)	296770	1000.00	930.93
130 Ethyl Acetate	43	4.339	4.339	(0.902)	350585	50.0000	55.55
189 n-Butyl acetate	43	7.705	7.705	(0.941)	548997	50.0000	48.78(M)
182 Epichlorohydrin	57	6.633	6.633	(1.195)	15225	200.000	157.47

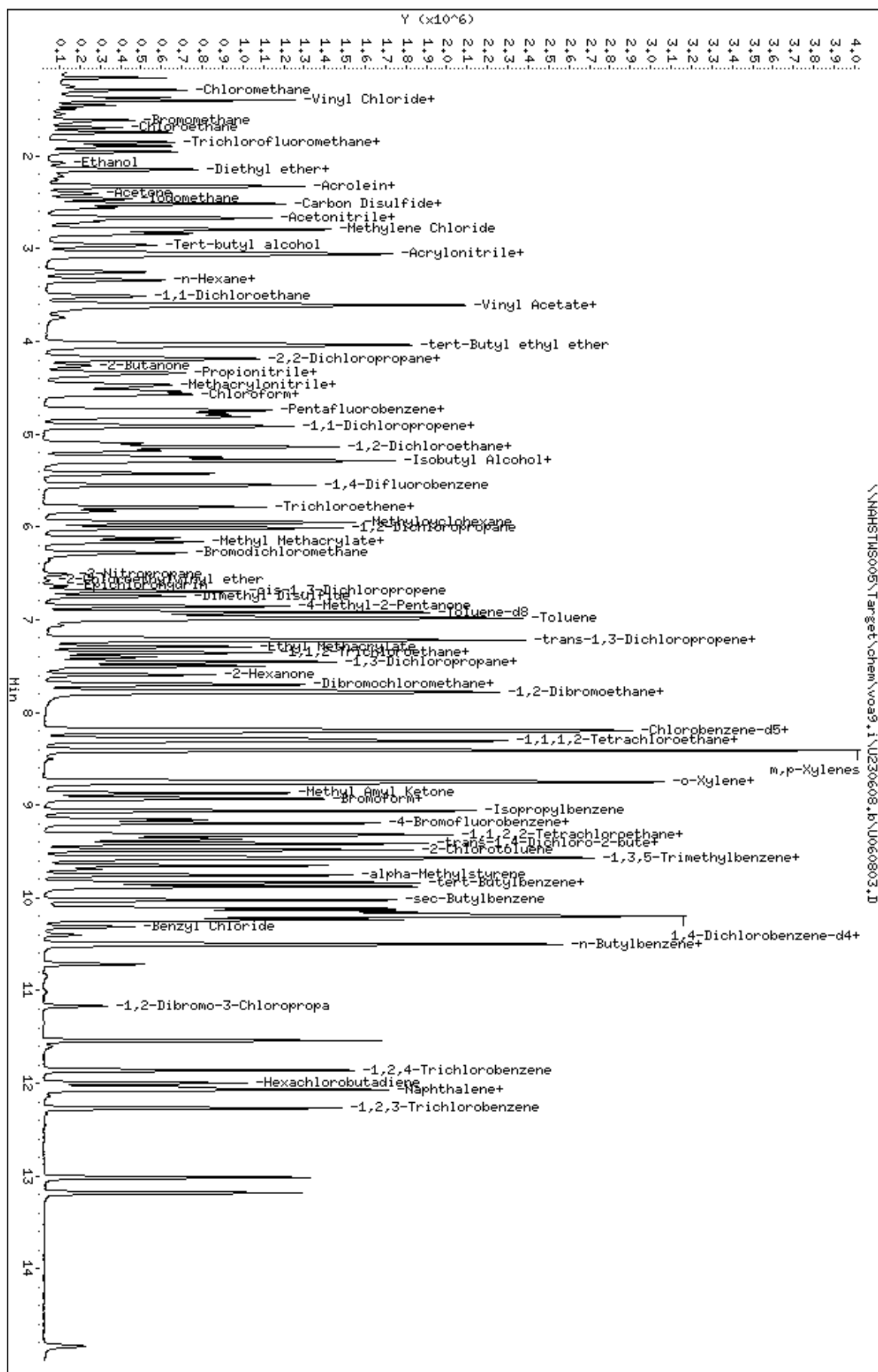
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060803.D
 Date : 08-JUN-2023 11:26
 Client ID: CCV
 Sample Info: CCV\CCV\211
 Purge Volume: 5.0
 Column phase: DB624

Instrument: VDA9.1
 Operator: PC
 Column diameter: 0.18

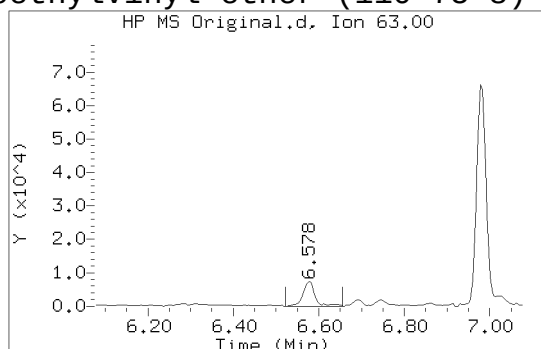


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230608.b\\U060803.D
Inj Date : 08-JUN-2023 11:26
InstruID : VOA9.i
LabSampID : CCV

2-Chloroethylvinyl ether (110-75-8)

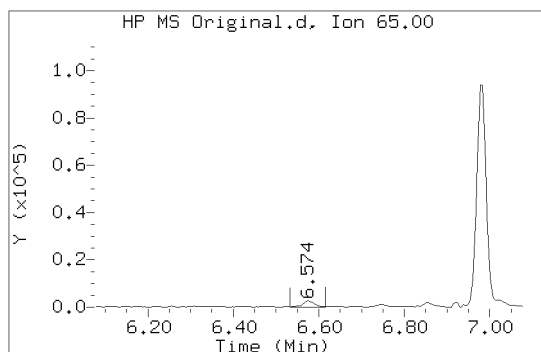
BEFORE

MASS
63
AREA
15218
HEIGHT
7392
13-Jun-2023
14:20
linh



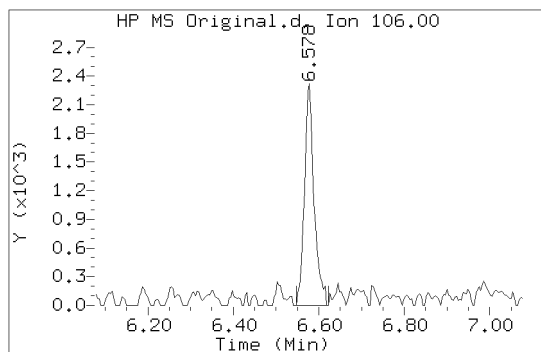
BEFORE

MASS
65
AREA
4558
HEIGHT
2559
13-Jun-2023
14:20
linh
pham



BEFORE

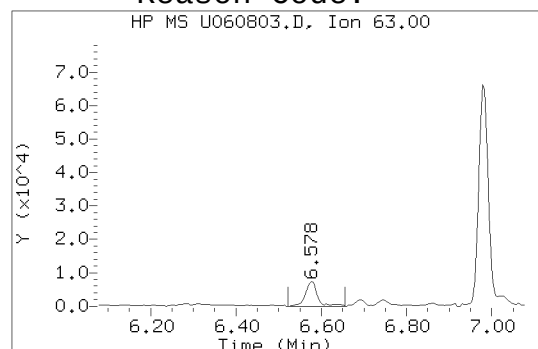
MASS
106
AREA
3688
HEIGHT
2320
13-Jun-2023
14:20
linh
pham



Reason Code:

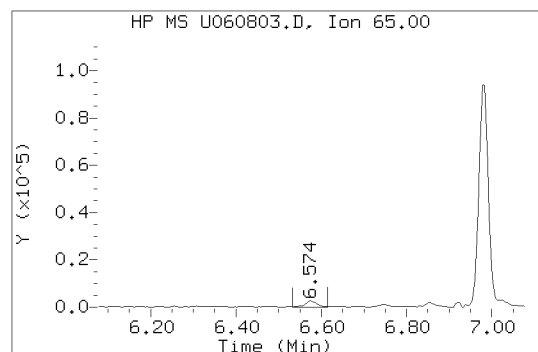
AFTER

MASS
63
AREA
15218
HEIGHT
7392
13-Jun-2023
14:20
linh



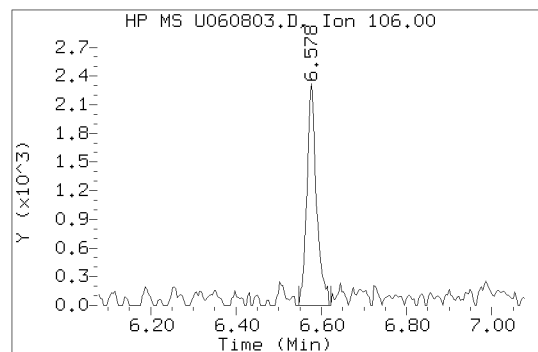
AFTER

MASS
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AREA
4558
HEIGHT
2559
13-Jun-2023
14:20
linh
pham



AFTER

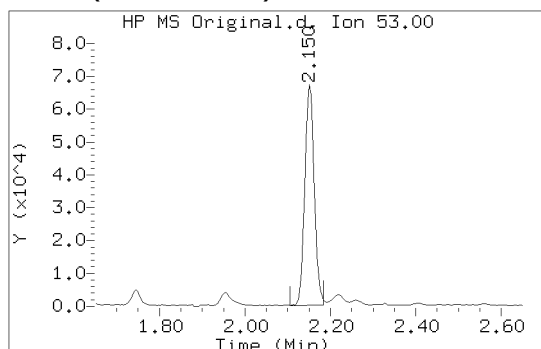
MASS
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AREA
3688
HEIGHT
2320
13-Jun-2023
14:20
linh
pham



Chloroprene (126-99-8)

BEFORE

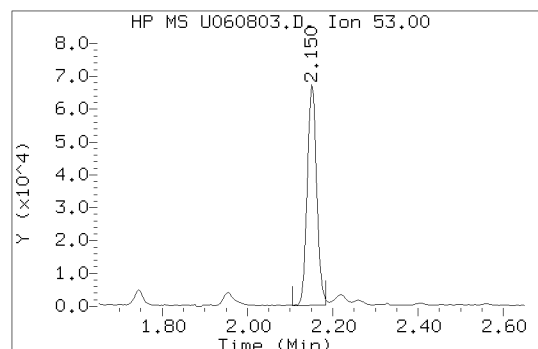
MASS
53
AREA
105585
HEIGHT
67124
13-Jun-2023
14:20
linh
pham



Reason Code:

AFTER

MASS
53
AREA
105585
HEIGHT
67124
13-Jun-2023
14:20
linh
pham

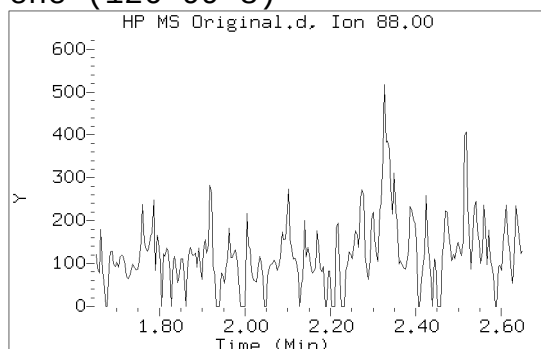


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060803.D
Inj Date : 08-JUN-2023 11:26
InstruID : VOA9.i
LabSampID : CCV

Chloroprene (126-99-8)

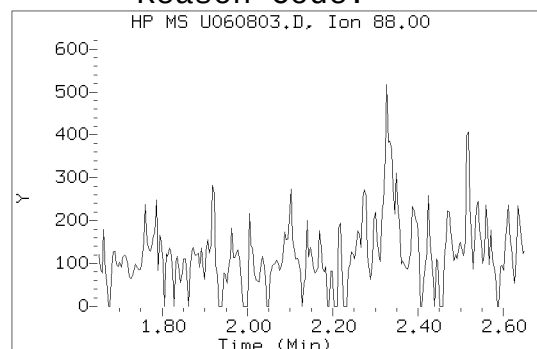
BEFORE

MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
14:20
linh
pham



AFTER

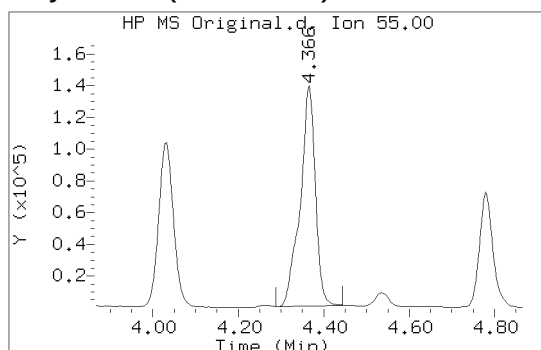
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
14:20
linh
pham



Methyl Acrylate (96-33-3)

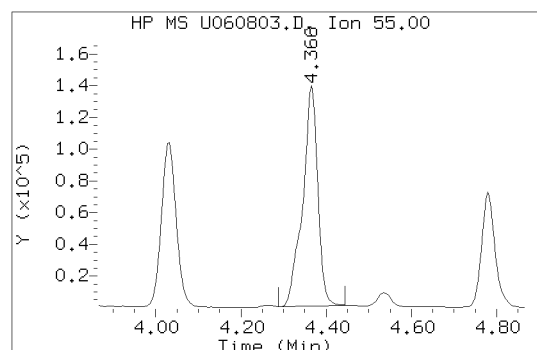
BEFORE

MASS
55
AREA
346120
HEIGHT
138775
13-Jun-2023
14:20
linh
pham



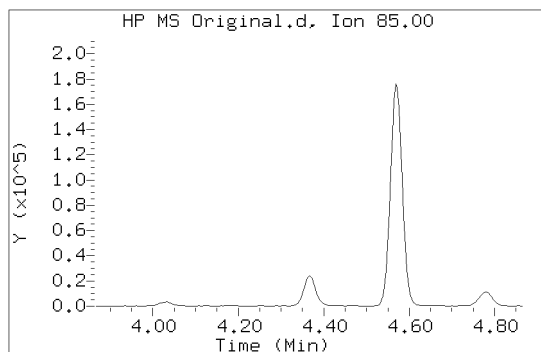
AFTER

MASS
55
AREA
346120
HEIGHT
138775
13-Jun-2023
14:20
linh
pham



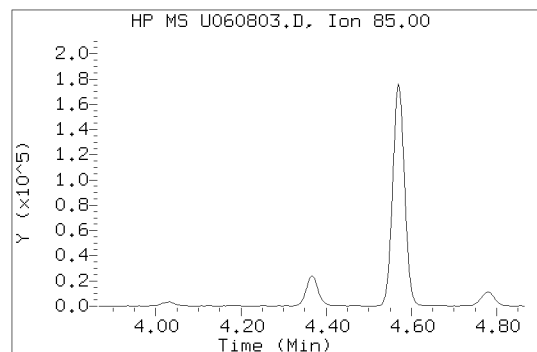
BEFORE

MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
14:20
linh
pham



AFTER

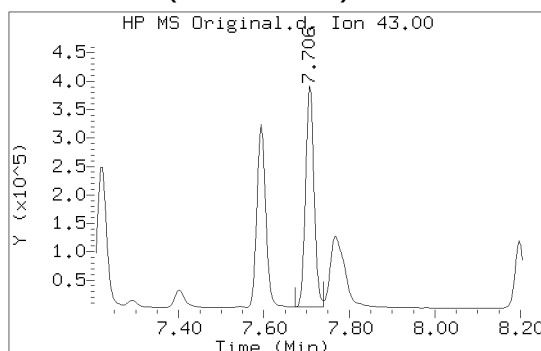
MASS
85
AREA
0
HEIGHT
0
13-Jun-2023
14:20
linh
pham



n-Butyl acetate (123-86-4)

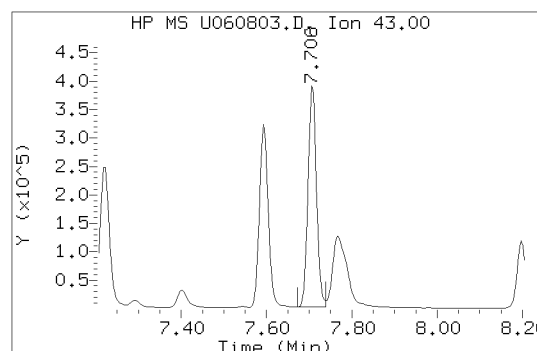
BEFORE

MASS
43
AREA
548997
HEIGHT
388392
13-Jun-2023
14:20
linh
pham



AFTER

MASS
43
AREA
548997
HEIGHT
388392
13-Jun-2023
14:20
linh
pham

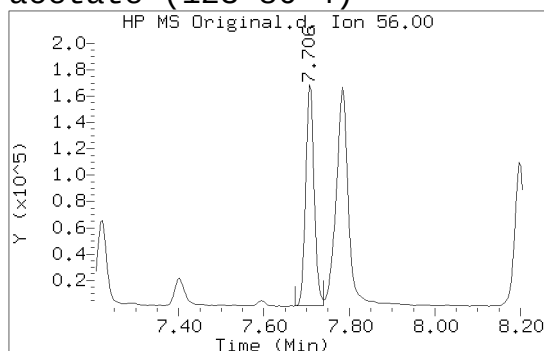


Data File : \\NAHSTWS005\\Target\\chem\\voa9.i\\U230608.b\\U060803.D
Inj Date : 08-JUN-2023 11:26
InstruID : VOA9.i
LabSampID : CCV

n-Butyl acetate (123-86-4)

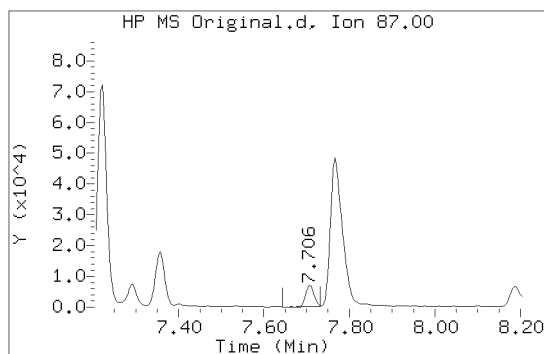
BEFORE

MASS
56
AREA
236167
HEIGHT
167866
13-Jun-2023
14:20
linh



BEFORE

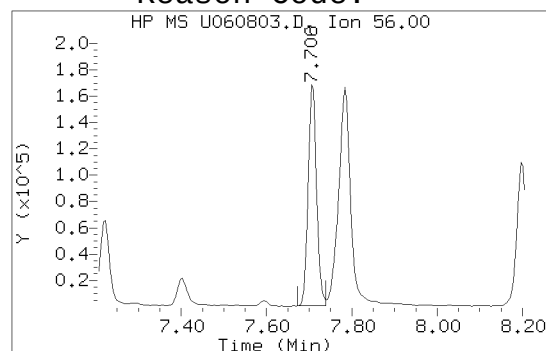
MASS
87
AREA
9666
HEIGHT
6851
13-Jun-2023
14:20
linh
pham



Reason Code:

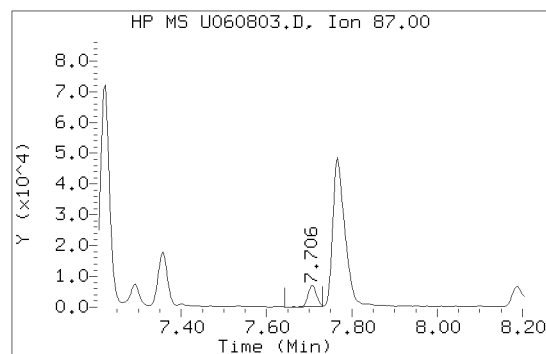
AFTER

MASS
56
AREA
236167
HEIGHT
167866
13-Jun-2023
14:20
linh



AFTER

MASS
87
AREA
9666
HEIGHT
6851
13-Jun-2023
14:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060804.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060804.D
 Lab Smp Id: CCB Client Smp ID: CCB
 Inj Date : 08-JUN-2023 11:49
 Operator : PC Inst ID: VOA9.i
 Smp Info : CCB;CCB;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.819	4.811	(1.000)		780675	50.0000	
\$ 30 Dibromofluoromethane	113		4.752	4.744	(0.986)		301956	46.0564	46.05
\$ 35 1,2-Dichloroethane-d4	65		5.100	5.096	(1.058)		341695	48.1665	48.16
* 36 1,4-Difluorobenzene	114		5.554	5.550	(1.000)		1065625	50.0000	
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		961264	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		1195381	54.9444	54.94
\$ 69 4-Bromofluorobenzene	95		9.194	9.194	(1.123)		407916	47.5433	47.54
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		469434	50.0000	
162 Butyl acrylate	55		8.740	8.733	(1.068)		3029	0.26639	0.26(a)
203 2-Ethylhexyl Acrylate	55		12.043	12.043	(1.184)		15497	5.21226	5.21

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060804.D

Date : 08-JUN-2023 11:49

Client ID: CCB

Sample Info: CCB\CCB\;

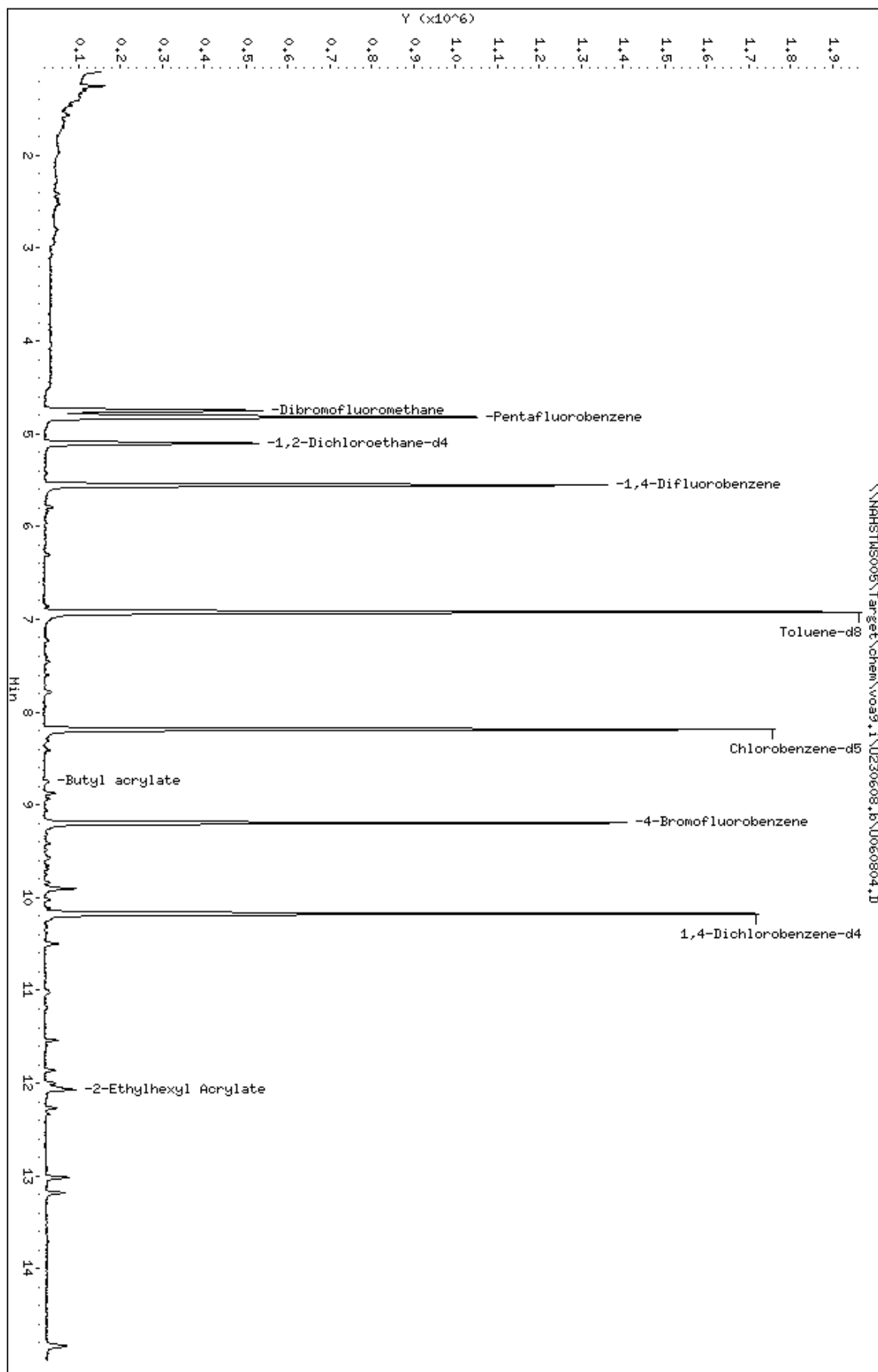
Purge Volume: 5.0

Column phase: DB624

Instrument: VOA9.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060804.D

Page 2

Date : 08-JUN-2023 11:49

Client ID: CCB

Instrument: VOA9.i

Sample Info: CCB:CCB;;;

Purge Volume: 5.0

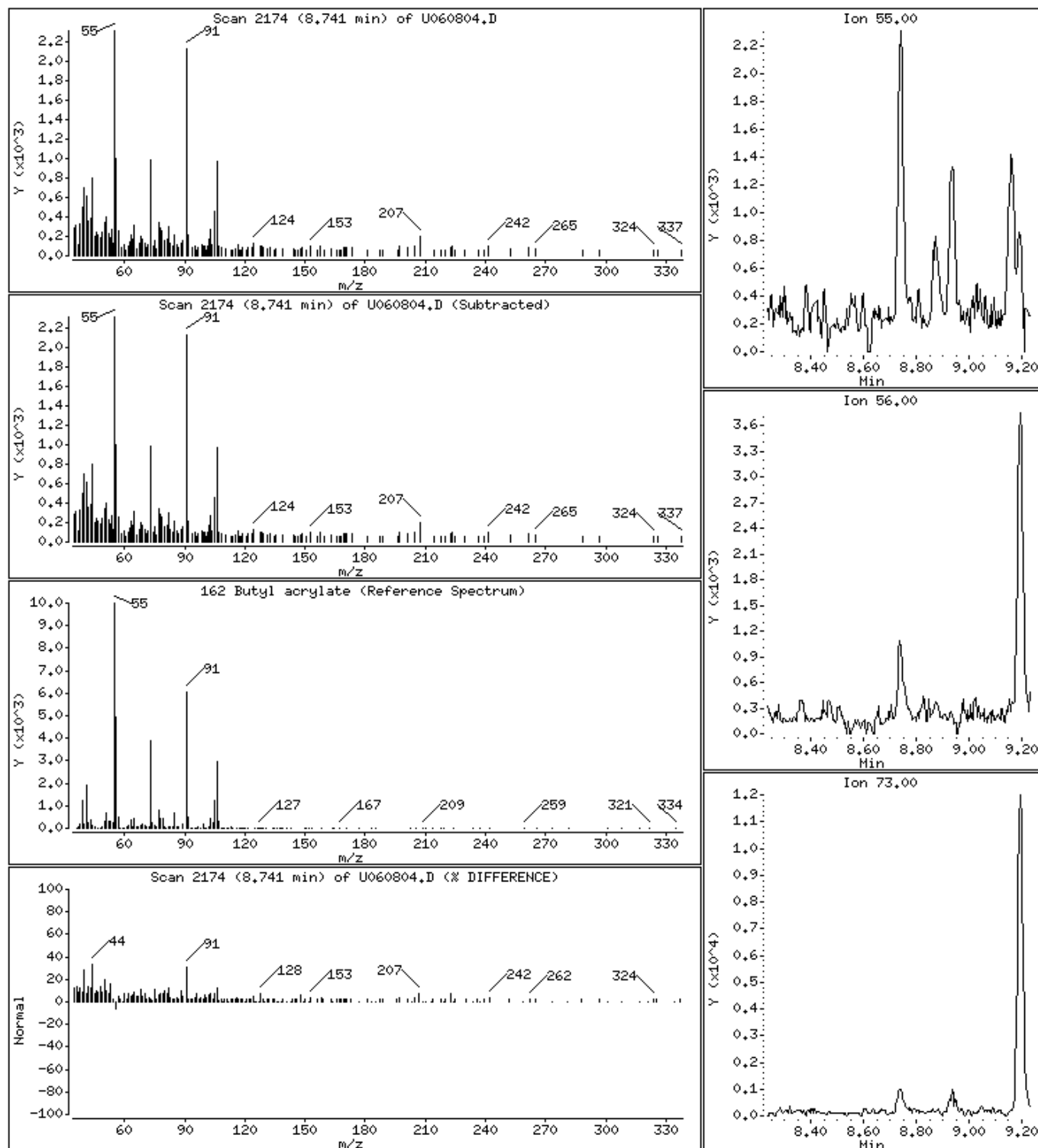
Operator: PC

Column phase: DB624

Column diameter: 0.18

162 Butyl acrylate

Concentration: 0.26 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060804.D

Page 3

Date : 08-JUN-2023 11:49

Client ID: CCB

Instrument: VOA9.i

Sample Info: CCB;CCB;;

Purge Volume: 5.0

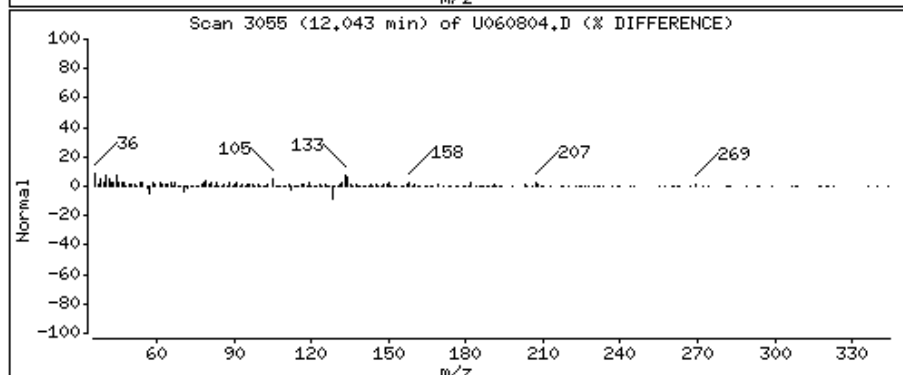
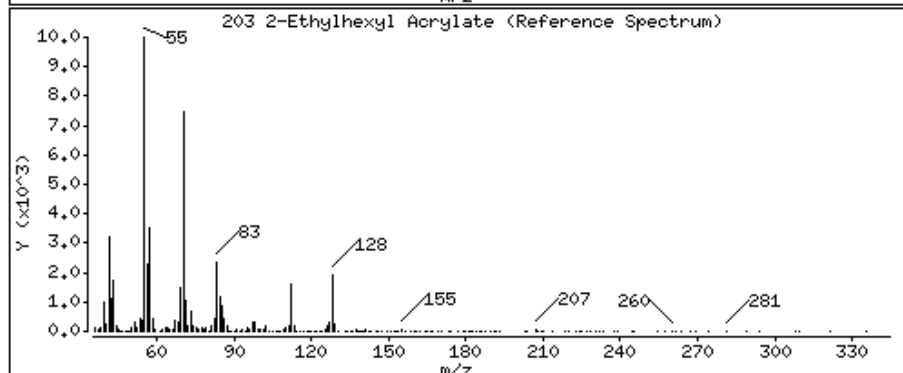
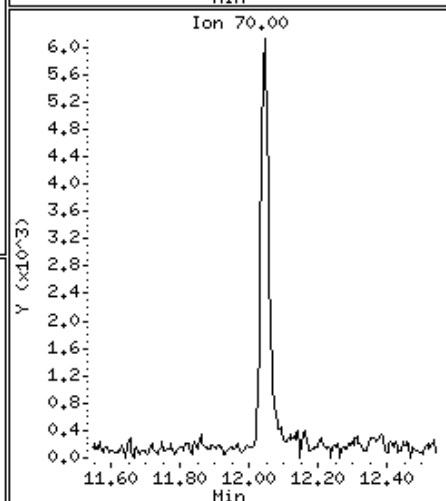
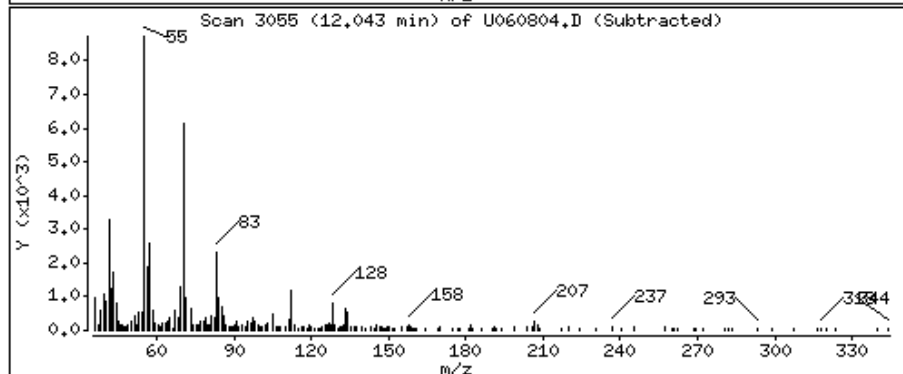
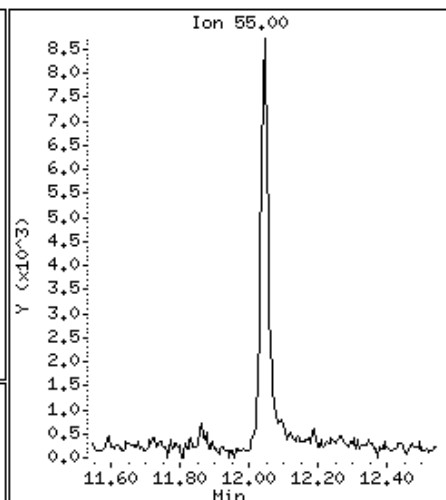
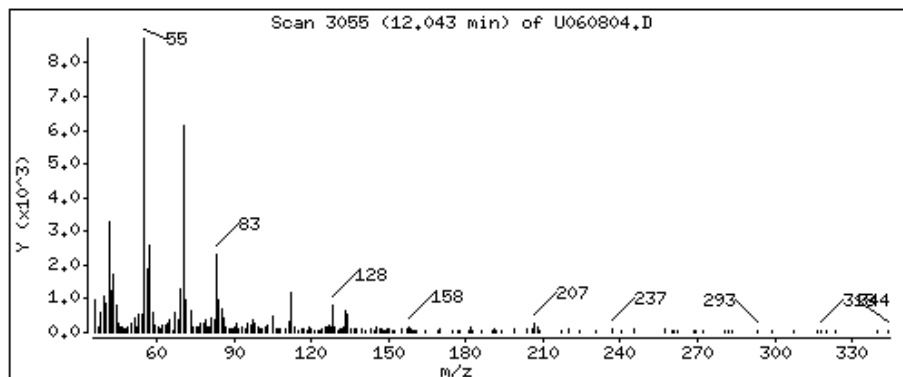
Operator: PC

Column phase: DB624

Column diameter: 0.18

203 2-Ethylhexyl Acrylate

Concentration: 5.21 ug/l



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060804.D
Inj Date : 08-JUN-2023 11:49
InstruID : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060805.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060805.D
 Lab Smp Id: VLCSW-230608 Client Smp ID: VLCSW-230608
 Inj Date : 08-JUN-2023 12:11
 Operator : PC Inst ID: VOA9.i
 Smp Info : VLCSW-230608;VLCSW-230608;3;;LCS
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Uf}/\text{Vo}) * 1 * \text{CpndVariable}$

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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.815	4.811	(1.000)		684177	50.0000	
2 Dichlorodifluoromethane	85		1.164	1.157	(0.242)		107734	17.0954	17.09
3 Chloromethane	50		1.295	1.288	(0.269)		188770	17.4382	17.43
5 Vinyl Chloride	62		1.378	1.370	(0.286)		131657	18.1926	18.19
6 Bromomethane	94		1.621	1.610	(0.337)		84152	21.6071	21.60
7 Chloroethane	64		1.700	1.693	(0.353)		86419	17.7272	17.72
8 Trichlorofluoromethane	101		1.899	1.891	(0.394)		151063	18.1749	18.17
9 Acrolein	56		2.266	2.259	(0.471)		13373	36.8251	36.82
10 Acetone	43		2.408	2.401	(0.500)		99811	39.1944	39.19
11 1,1-Dichloroethene	96		2.334	2.326	(0.485)		94222	18.1430	18.14
15 Iodomethane	142		2.468	2.461	(0.513)		121717	37.6491	37.64
16 Acrylonitrile	53		3.068	3.061	(0.637)		103899	40.9494	40.94
17 Methylene Chloride	84		2.795	2.787	(0.580)		126179	19.6111	19.61
18 Methyl tert-butyl ether	73		3.079	3.072	(0.640)		320691	20.1369	20.13
19 Carbon Disulfide	76		2.521	2.514	(0.524)		519742	37.4360	37.43
20 trans-1,2-Dichloroethene	96		3.061	3.053	(0.636)		105919	18.7539	18.75
21 Vinyl Acetate	43		3.608	3.601	(0.749)		677814	39.3703	39.37
22 1,1-Dichloroethane	63		3.514	3.511	(0.730)		191988	17.8872	17.88
24 2-Butanone	43		4.268	4.260	(0.886)		111219	35.6541	35.65
26 2,2-Dichloropropane	77		4.182	4.178	(0.868)		135308	19.3137	19.31



27 cis-1,2-Dichloroethene	96	4.197	4.193 (0.872)	123590	18.2914	18.29
28 Chloroform	83	4.571	4.568 (0.949)	209042	18.7128	18.71

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060805.D Page 2
Report Date: 13-Jun-2023 14:21

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128		4.470	4.467	(0.928)		69269	18.3275	18.32
\$ 30 Dibromofluoromethane	113		4.748	4.744	(0.986)		291363	50.7407	50.74
31 1,1,1-Trichloroethane	97		4.744	4.740	(0.985)		156377	18.3665	18.36
32 1,1-Dichloropropene	75		4.920	4.916	(0.886)		144302	19.6084	19.60
33 1,2-Dichloroethane	62		5.179	5.175	(0.933)		168650	19.4047	19.40
34 Carbon Tetrachloride	117		4.909	4.909	(0.884)		122554	18.1296	18.12
\$ 35 1,2-Dichloroethane-d4	65		5.100	5.096	(1.059)		311066	50.0600	50.05
* 36 1,4-Difluorobenzene	114		5.554	5.550	(1.000)		1004154	50.0000	
37 Benzene	78		5.141	5.138	(0.926)		476296	19.6844	19.68
38 Trichloroethene	130		5.790	5.786	(1.043)		135113	19.2655	19.26
39 Bromodichloromethane	83		6.281	6.277	(1.131)		144521	19.1474	19.14
41 2-Chloroethylvinyl ether	63		6.577	6.577	(1.184)		5456	29.8858	29.88(M)
42 1,2-Dichloropropane	63		6.011	6.007	(1.082)		126686	19.6092	19.60
44 Dibromomethane	93		6.120	6.120	(1.102)		81085	19.6430	19.64
45 4-Methyl-2-Pentanone	43		6.858	6.855	(0.838)		268159	38.5362	38.53
46 cis-1,3-Dichloropropene	75		6.693	6.690	(1.205)		169892	18.0699	18.06
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		955578	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		1103922	51.0426	51.04
50 Toluene	91		6.982	6.978	(0.853)		513197	19.8011	19.80
51 trans-1,3-Dichloropropene	75		7.199	7.196	(1.296)		139469	17.7890	17.78
52 2-Hexanone	43		7.593	7.593	(0.928)		178402	36.8137	36.81
53 1,1,2-Trichloroethane	83		7.357	7.357	(0.899)		102375	18.9840	18.98
54 1,3-Dichloropropane	76		7.499	7.499	(0.916)		210881	19.1400	19.13
55 Dibromochloromethane	129		7.694	7.690	(0.940)		126246	19.7305	19.73
56 Tetrachloroethene	164		7.458	7.458	(0.911)		124841	19.7703	19.77
57 1,2-Dibromoethane	107		7.788	7.784	(0.951)		126592	19.0297	19.02
58 1-Chlorohexane	55		8.196	8.197	(1.476)		93187	18.0728	18.07
59 Chlorobenzene	112		8.211	8.208	(1.003)		359816	19.4523	19.45
60 1,1,1,2-Tetrachloroethane	131		8.286	8.283	(1.012)		122502	19.2688	19.26
61 Ethylbenzene	106		8.309	8.305	(1.015)		169010	19.6312	19.63
62 m,p-Xylenes	106		8.410	8.410	(1.027)		420784	41.3111	41.31
63 o-Xylene	106		8.748	8.748	(1.069)		202395	20.1138	20.11
64 Styrene	104		8.763	8.763	(1.071)		343288	21.4973	21.49
66 Bromoform	173		8.920	8.920	(1.090)		83147	19.2515	19.25
67 Isopropylbenzene	105		9.062	9.062	(1.107)		488783	20.2236	20.22
68 1,1,2,2-Tetrachloroethane	83		9.329	9.329	(0.917)		172505	18.1229	18.12
\$ 69 4-Bromofluorobenzene	95		9.194	9.194	(1.123)		463913	54.5221	54.52
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		506035	50.0000	
71 1,2,3-Trichloropropane	75		9.362	9.362	(0.920)		152252	18.1818	18.18
73 n-Propylbenzene	91		9.411	9.411	(0.925)		514724	19.3920	19.39
74 Bromobenzene	156		9.317	9.317	(0.916)		161428	18.9066	18.90
75 1,3,5-Trimethylbenzene	105		9.565	9.561	(0.940)		342467	18.8067	18.80
76 2-Chlorotoluene	91		9.482	9.482	(0.932)		369167	19.7850	19.78
77 4-Chlorotoluene	91		9.576	9.576	(0.941)		409857	19.8445	19.84
78 tert-Butylbenzene	119		9.838	9.838	(0.967)		335093	18.7359	18.73
79 1,2,4-Trimethylbenzene	105		9.880	9.880	(0.971)		362491	19.0250	19.02
81 sec-Butylbenzene	105		10.022	10.022	(0.985)		423710	18.6809	18.68
82 p-Isopropyltoluene	119		10.146	10.146	(0.997)		359027	18.8944	18.89
83 1,3-Dichlorobenzene	146		10.116	10.116	(0.994)		275232	18.9794	18.97
84 1,4-Dichlorobenzene	146		10.191	10.191	(1.002)		288419	18.6537	18.65
87 n-Butylbenzene	91		10.494	10.491	(1.032)		308861	18.9869	18.98
88 1,2-Dichlorobenzene	146		10.506	10.506	(1.033)		275508	18.9485	18.94



89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	24114	17.3608	17.36
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	184972	18.4955	18.49



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060805.D Page 3
 Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	84068	20.8151	20.81
92 Naphthalene	128	12.069	12.069	(1.186)	443098	19.0737	19.07
93 1,2,3-Trichlorobenzene	180	12.271	12.268	(1.206)	185267	18.9494	18.94
M 94 1,2-Dichloroethylene (total)	96				229509	37.0453	37.04
M 95 Xylenes (total)	106				623179	61.4249	61.42
135 1,4-Dioxane	88	6.172	6.169	(1.282)	35954	264.655	264.65
141 Cyclohexane	56	4.781	4.778	(0.993)	156948	19.0814	19.08
138 Freon TF	101	2.337	2.330	(0.485)	86529	18.8312	18.83
140 1,3-Butadiene	54	1.404	1.396	(0.292)	118224	18.2461	18.24
147 Methylcyclohexane	55	5.951	5.947	(1.072)	314719	22.5936	22.59
146 Methyl Acetate	43	2.712	2.705	(0.563)	102037	17.7122	17.71
148 Tert-Butyl alcohol	59	2.967	2.960	(0.616)	238335	373.935	373.93
149 Isopropyl Alcohol	45	2.562	2.555	(0.532)	154297	344.978	344.97
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	20873	18.9709	18.97
12 Isobutyl Alcohol	43	5.287	5.288	(1.098)	398616	448.420	448.41
13 Acetonitrile	39	2.671	2.667	(0.555)	150690	203.434	203.43
14 Allyl Chloride	41	2.675	2.667	(0.555)	349223	19.6602	19.66
25 Methacrylonitrile	41	4.496	4.493	(0.934)	85127	21.0593	21.05
40 Methyl Methacrylate	41	6.161	6.157	(1.279)	121172	20.5981	20.59
4 Propionitrile	54	4.339	4.335	(0.901)	189313	191.486	191.48(a)
136 n-Hexane	57	3.342	3.338	(0.694)	106914	19.1426	19.14
131 Methyl Acrylate	55	4.369	4.365	(0.907)	143058	19.7708	19.77
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	88623	16.1911	16.19
23 Chloroprene	53	2.157	2.150	(0.448)	35950	16.4746	16.47(M)
49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	181825	20.6565	20.65
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	411077	21.1335	21.13
167 Ethanol	45	2.082	2.075	(0.433)	32384	365.152	365.15
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	535421	21.6906	21.69
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	161185	19.3149	19.31
142 Tetrahydrofuran	42	4.545	4.542	(0.944)	49210	39.3245	39.32
156 Diisopropyl ether	45	3.623	3.616	(0.752)	387628	20.3187	20.31
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	571475	382.721	382.72
150 Allyl alcohol	57	3.342	3.338	(0.694)	106914	383.396	383.39
86 Benzyl Chloride	91	10.311	10.311	(1.260)	101163	19.9462	19.94
162 Butyl acrylate	55	8.736	8.733	(1.067)	226561	20.0437	20.04
139 Diethyl ether	59	2.146	2.139	(0.446)	92605	20.0320	20.03
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	100648	22.3294	22.32
134 Cyclohexanone	55	9.156	9.156	(0.900)	120470	384.002	384.00(a)
130 Ethyl Acetate	43	4.343	4.339	(0.902)	135188	22.1046	22.10
189 n-Butyl acetate	43	7.709	7.705	(0.942)	200545	18.4316	18.43(M)

QC Flag Legend

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

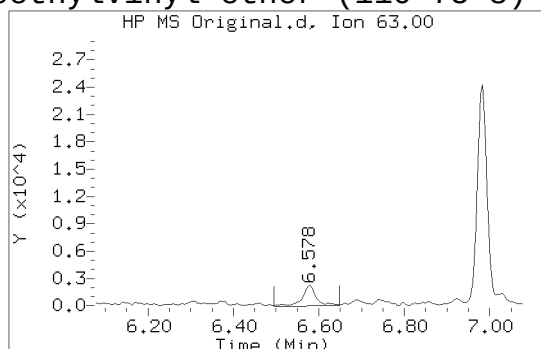


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Inj Date : 08-JUN-2023 12:11
InstruID : VOA9.i
LabSampID : VLCSW-230608

2-Chloroethylvinyl ether (110-75-8)

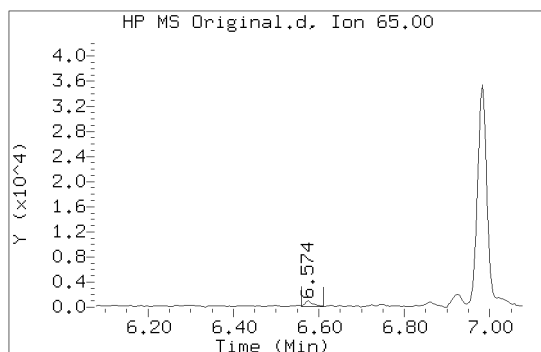
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HEIGHT
2299
13-Jun-2023
14:20
linh



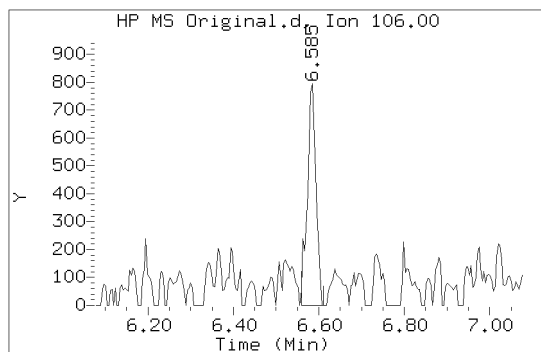
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BEFORE

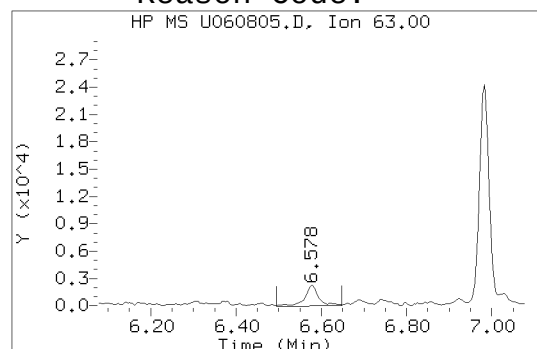
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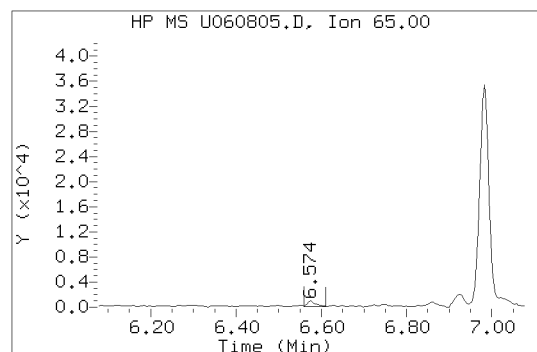
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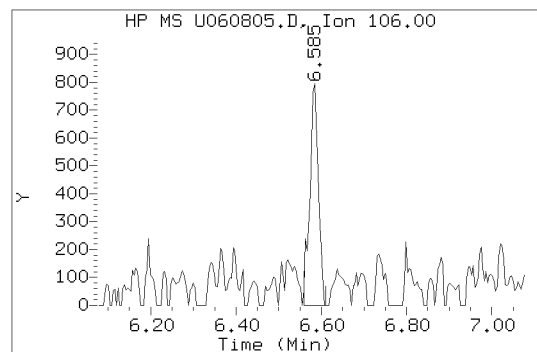
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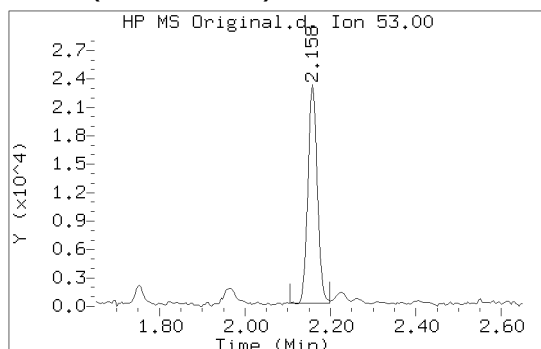
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Chloroprene (126-99-8)

BEFORE

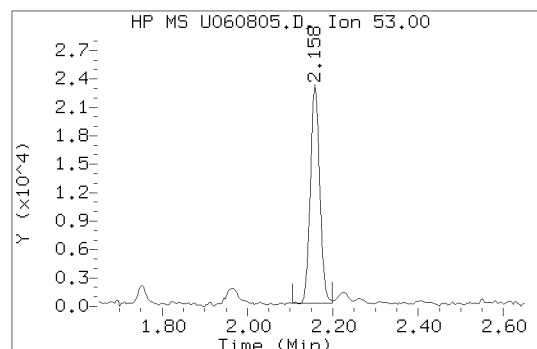
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Reason Code:

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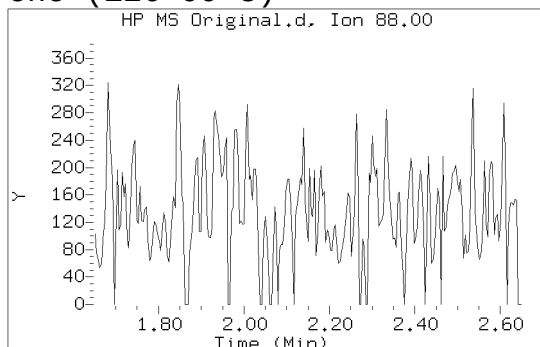
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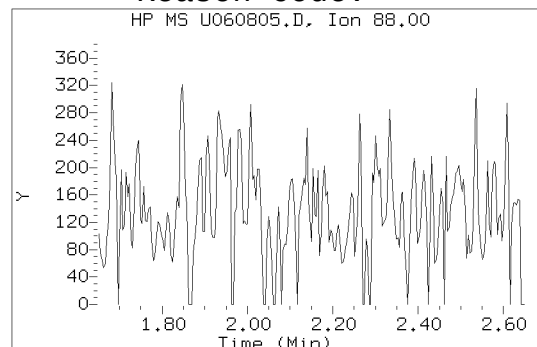
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Inj Date : 08-JUN-2023 12:11
InstruID : VOA9.i
LabSampID : VLCSW-230608

Chloroprene (126-99-8)**BEFORE**

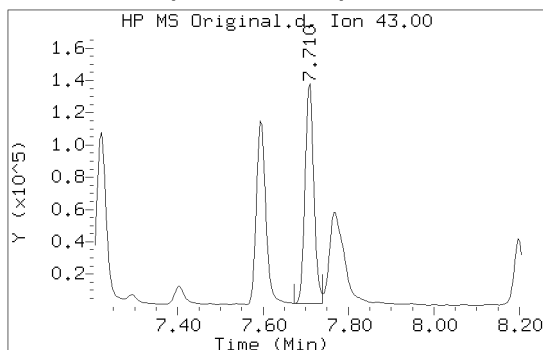
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13-Jun-2023
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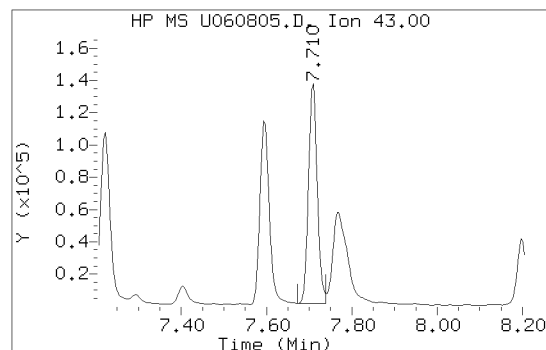
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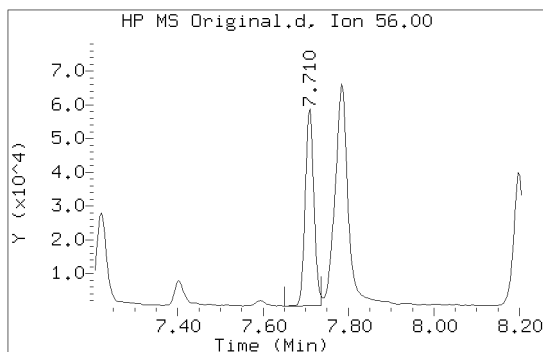
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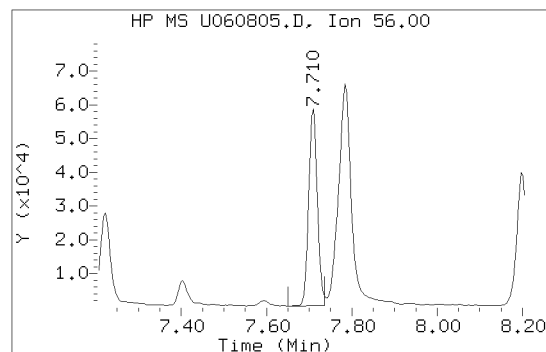
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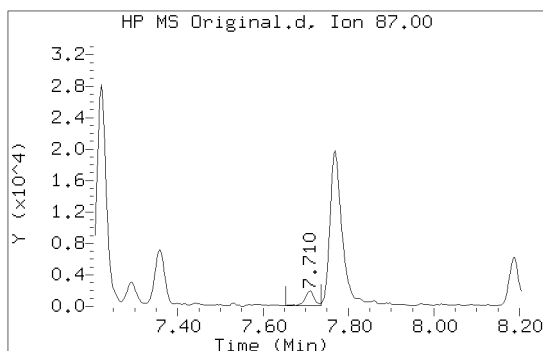
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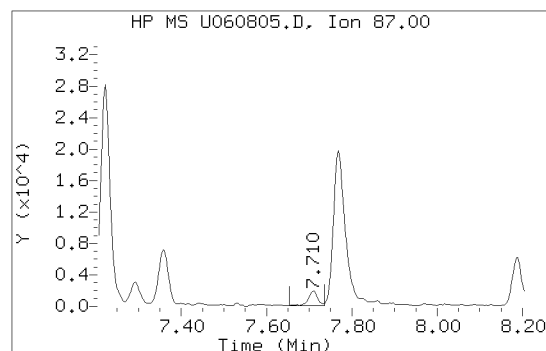
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**BEFORE**

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HEIGHT
1854
13-Jun-2023
14:20
linh
pham

**AFTER**

MASS
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1854
13-Jun-2023
14:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060806.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060806.D
 Lab Smp Id: VBLKW-230608 Client Smp ID: VBLKW-230608
 Inj Date : 08-JUN-2023 12:33
 Operator : PC Inst ID: VOA9.i
 Smp Info : VBLKW-230608;VBLKW-230608;3;;BLANK
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.811	(1.000)	777015	50.0000	
\$ 30 Dibromofluoromethane	113	4.751	4.744	(0.986)	315194	48.3174	48.31
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	347574	49.2410	49.24
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	1080793	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	996337	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1210772	53.6928	53.69
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	419042	47.1127	47.11
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	488008	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa3,i\U230608,b\U060806.D

Date : 08-JUN-2023 12:33

Client ID: VBLKM-230608

Sample Info: VBLKM-230608;VBLKM-230608f3;BLANK

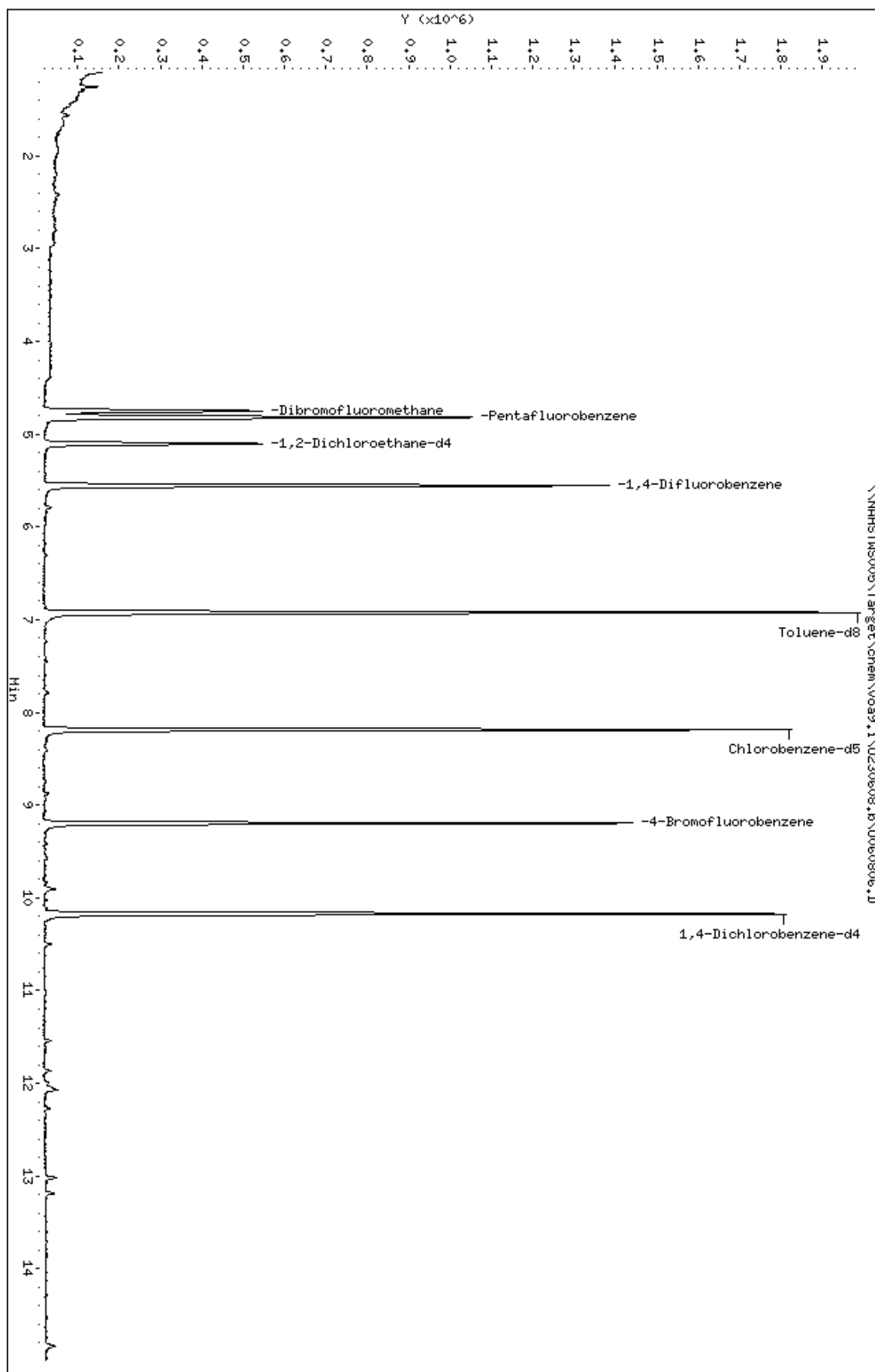
Purge Volume: 5.0

Column phase: DB624

Instrument: V0A9.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060806.D
Inj Date : 08-JUN-2023 12:33
InstruID : VOA9.i
LabSampID : VBLKW-230608

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060816.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060816.D
 Lab Smp Id: HS23060241-04MS Client Smp ID: HS23060241-04MS
 Inj Date : 08-JUN-2023 16:17
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060241-04MS;HS23060241-04MS;3;;MS
 Misc Info : V9;WATER;0;1;
 Comment :
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 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 15 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.811	4.811	(1.000)		787772	50.0000	
2 Dichlorodifluoromethane	85		1.156	1.157	(0.240)		92052	12.7067	12.70
3 Chloromethane	50		1.288	1.288	(0.268)		240638	19.4509	19.45
5 Vinyl Chloride	62		1.370	1.370	(0.285)		158998	19.0814	19.08
6 Bromomethane	94		1.610	1.610	(0.335)		87213	19.2645	19.26
7 Chloroethane	64		1.692	1.693	(0.352)		103616	18.4597	18.45
8 Trichlorofluoromethane	101		1.887	1.891	(0.392)		208121	21.7469	21.74
9 Acrolein	56		2.258	2.259	(0.469)		11826	28.2827	28.28
10 Acetone	43		2.401	2.401	(0.499)		88385	28.8256	28.82
11 1,1-Dichloroethene	96		2.326	2.326	(0.483)		147543	24.6742	24.67
15 Iodomethane	142		2.461	2.461	(0.512)		85859	26.9820	26.98
16 Acrylonitrile	53		3.061	3.061	(0.636)		107186	36.6895	36.68
17 Methylene Chloride	84		2.787	2.787	(0.579)		142548	19.2223	19.22
18 Methyl tert-butyl ether	73		3.072	3.072	(0.639)		345176	18.8241	18.82
19 Carbon Disulfide	76		2.513	2.514	(0.522)		648078	40.5412	40.54
20 trans-1,2-Dichloroethene	96		3.053	3.053	(0.635)		136525	20.9941	20.99
21 Vinyl Acetate	43		3.600	3.601	(0.748)		723270	36.4860	36.48
22 1,1-Dichloroethane	63		3.507	3.511	(0.729)		328791	26.6046	26.60
24 2-Butanone	43		4.260	4.260	(0.885)		113580	31.6228	31.62
26 2,2-Dichloropropane	77		4.178	4.178	(0.868)		166958	20.6689	20.66



27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	426983	54.8835	54.88
28 Chloroform	83	4.568	4.568 (0.949)	317968	24.7205	24.72

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060816.D Page 2
Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
29 Bromochloromethane	128	4.463	4.467	(0.928)	77457	17.7989	17.79	
\$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	321673	48.6394	48.63	
31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	202580	20.6642	20.66	
32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	186094	23.4335	23.43	
33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	207994	22.1772	22.17	
34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	170723	23.4038	23.40	
\$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	351068	49.0543	49.05	
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	1083593	50.0000		
37 Benzene	78	5.134	5.138	(0.925)	569375	21.8061	21.80	
38 Trichloroethene	130	5.786	5.786	(1.043)	314417	41.5454	41.54	
39 Bromodichloromethane	83	6.277	6.277	(1.131)	168882	20.7346	20.73	
42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	171544	24.6060	24.60	
44 Dibromomethane	93	6.120	6.120	(1.103)	91684	20.5824	20.58	
45 4-Methyl-2-Pentanone	43	6.854	6.855	(0.837)	288789	39.9211	39.92	
46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	195513	19.1435	19.14	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	993394	50.0000		
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1241280	55.2088	55.20	
50 Toluene	91	6.978	6.978	(0.853)	620310	23.0228	23.02	
51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	154904	18.2502	18.25	
52 2-Hexanone	43	7.593	7.593	(0.928)	187237	37.1660	37.16	
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	114559	20.4347	20.43	
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	240391	20.9878	20.98	
55 Dibromochloromethane	129	7.690	7.690	(0.940)	141039	21.2033	21.20	
56 Tetrachloroethene	164	7.458	7.458	(0.911)	270925	41.2714	41.27	
57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	138766	20.0656	20.06	
58 1-Chlorohexane	55	8.196	8.197	(1.477)	128449	23.0852	23.08	
59 Chlorobenzene	112	8.208	8.208	(1.003)	417795	21.7270	21.72	
60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	144239	21.8243	21.82	
61 Ethylbenzene	106	8.305	8.305	(1.015)	210031	23.4673	23.46	
62 m,p-Xylenes	106	8.410	8.410	(1.027)	509872	48.1519	48.15	
63 o-Xylene	106	8.747	8.748	(1.069)	239452	22.8906	22.89	
64 Styrene	104	8.762	8.763	(1.071)	384912	23.1863	23.18	
66 Bromoform	173	8.920	8.920	(1.090)	88365	19.6808	19.68	
67 Isopropylbenzene	105	9.062	9.062	(1.107)	626737	24.9443	24.94	
68 1,1,2,2-Tetrachloroethane	83	9.328	9.329	(0.917)	190470	19.3992	19.39	
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	443465	50.0619	50.06	
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	521972	50.0000		
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	165633	19.1758	19.17	
73 n-Propylbenzene	91	9.411	9.411	(0.925)	638257	23.3119	23.31	
74 Bromobenzene	156	9.317	9.317	(0.916)	186224	21.1448	21.14	
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	412591	21.9658	21.96	
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	435308	22.6174	22.61	
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	482758	22.6605	22.66	
78 tert-Butylbenzene	119	9.838	9.838	(0.967)	433618	23.5044	23.50	
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	410113	20.8673	20.86	
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	561658	24.0068	24.00	
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	444742	22.6906	22.69	
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	317498	21.2255	21.22	
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	332586	20.8535	20.85	
87 n-Butylbenzene	91	10.494	10.491	(1.032)	383710	22.8679	22.86	
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	314082	20.9419	20.94	
89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	26240	18.3146	18.31	



90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	204558	19.8294	19.82
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	93475	22.4376	22.43

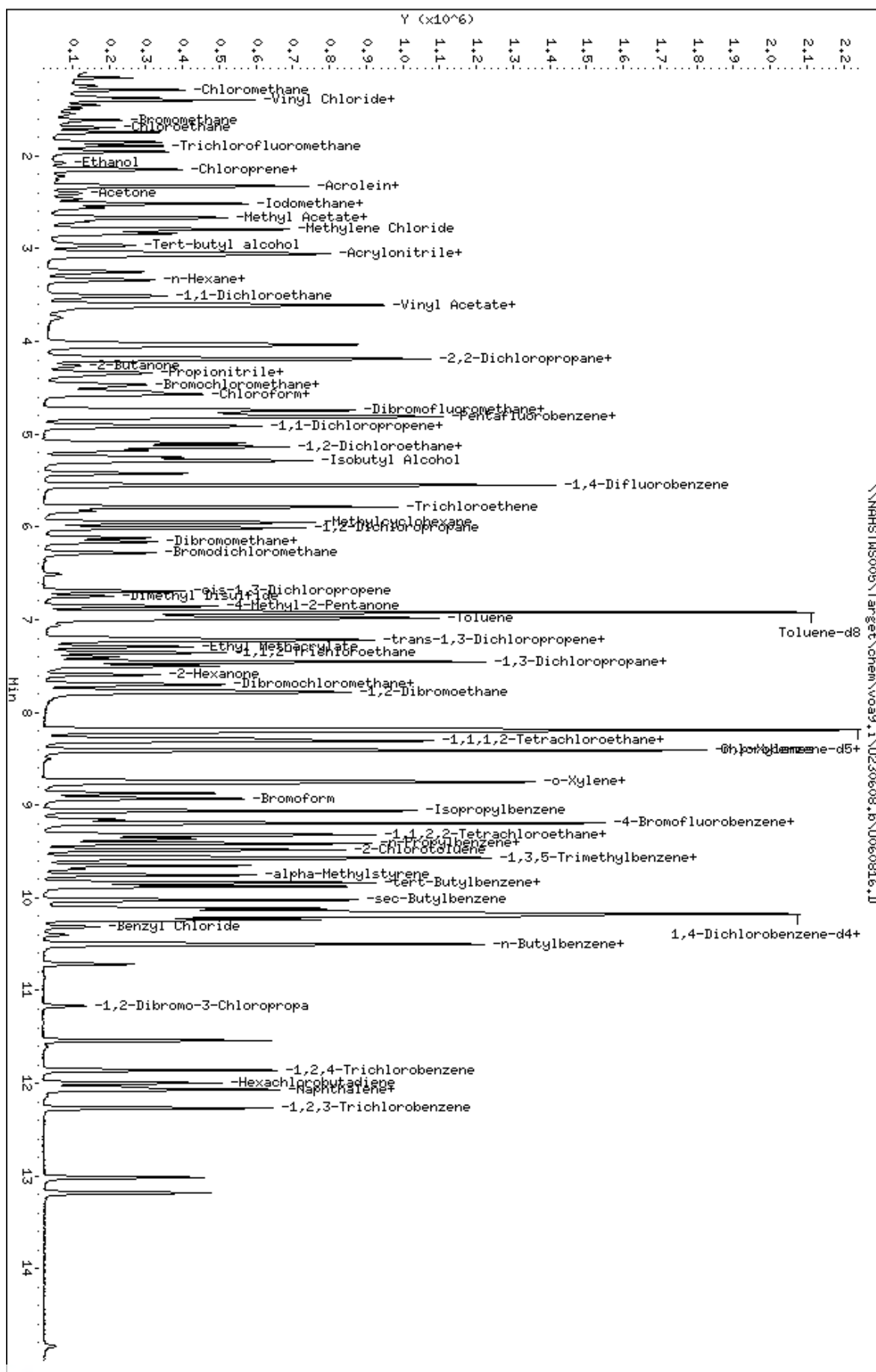
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 Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
92 Naphthalene	128	12.069	12.069	(1.186)	467250	19.4992	19.49
93 1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	199264	19.7588	19.75
M 94 1,2-Dichloroethylene (total)	96				563508	75.8777	75.87
M 95 Xylenes (total)	106				749324	71.0425	71.04
135 1,4-Dioxane	88	6.168	6.169	(1.282)	38343	245.125	245.12
141 Cyclohexane	56	4.778	4.778	(0.993)	211400	22.2533	22.25
138 Freon TF	101	2.326	2.330	(0.483)	116521	22.0236	22.02
140 1,3-Butadiene	54	1.396	1.396	(0.290)	140836	18.8775	18.87
147 Methylcyclohexane	55	5.947	5.947	(1.072)	336666	22.3973	22.39
146 Methyl Acetate	43	2.708	2.705	(0.563)	108710	16.3890	16.38
148 Tert-Butyl alcohol	59	2.963	2.960	(0.616)	261819	356.533	356.53
149 Isopropyl Alcohol	45	2.558	2.555	(0.532)	170742	331.544	331.54
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	23973	20.9590	20.95
12 Isobutyl Alcohol	43	5.287	5.288	(1.099)	428165	418.320	418.32
13 Acetonitrile	39	2.667	2.667	(0.554)	163247	191.405	191.40
14 Allyl Chloride	41	2.667	2.667	(0.554)	372693	18.2224	18.22
25 Methacrylonitrile	41	4.493	4.493	(0.934)	85401	18.3488	18.34
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	123516	18.2354	18.23
4 Propionitrile	54	4.335	4.335	(0.901)	194592	170.942	170.94(a)
136 n-Hexane	57	3.338	3.338	(0.694)	146901	22.7709	22.77
131 Methyl Acrylate	55	4.365	4.365	(0.907)	154996	18.6037	18.60
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	84963	15.2953	15.29
23 Chloroprene	53	2.150	2.150	(0.447)	50941	20.2745	20.27
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	188002	19.7924	19.79
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	395207	19.6973	19.69
167 Ethanol	45	2.079	2.075	(0.432)	37216	364.409	364.40
164 Dicyclopentadiene	66	10.198	10.202	(1.003)	561090	22.0365	22.03
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	170569	19.7238	19.72
142 Tetrahydrofuran	42	4.541	4.542	(0.944)	49775	34.2584	34.25
156 Diisopropyl ether	45	3.615	3.616	(0.751)	426366	19.4103	19.41
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	509673	316.308	316.30
150 Allyl alcohol	57	3.338	3.338	(0.694)	146901	455.925	455.92
86 Benzyl Chloride	91	10.311	10.311	(1.260)	100367	19.1942	19.19
162 Butyl acrylate	55	8.732	8.733	(1.067)	228889	19.4788	19.47
139 Diethyl ether	59	2.139	2.139	(0.445)	99136	18.6247	18.62
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	85776	18.8098	18.80
134 Cyclohexanone	55	9.156	9.156	(0.900)	87027	268.932	268.93(a)
130 Ethyl Acetate	43	4.339	4.339	(0.902)	142642	20.2563	20.25
189 n-Butyl acetate	43	7.705	7.705	(0.941)	210301	18.5925	18.59(M)

QC Flag Legend

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





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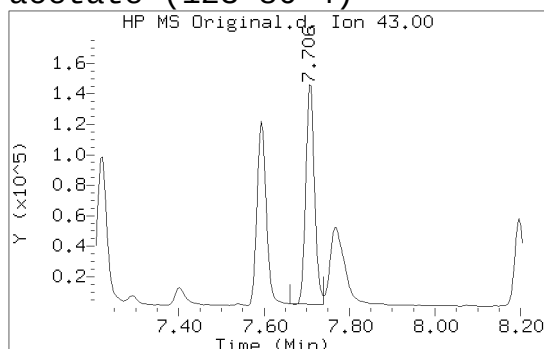
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n-Butyl acetate (123-86-4)

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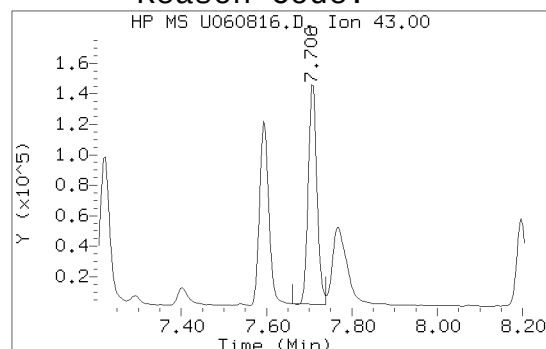
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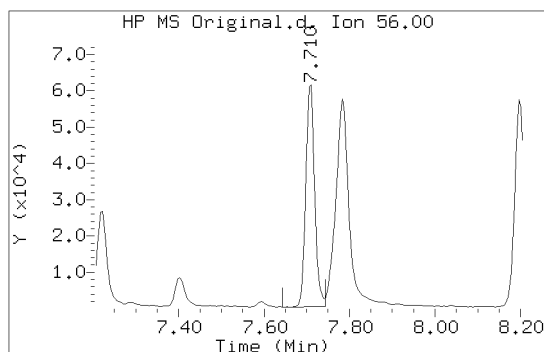
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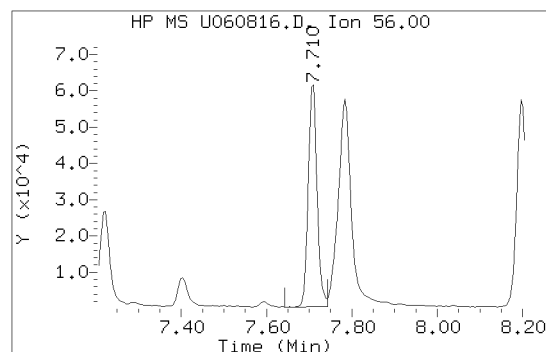
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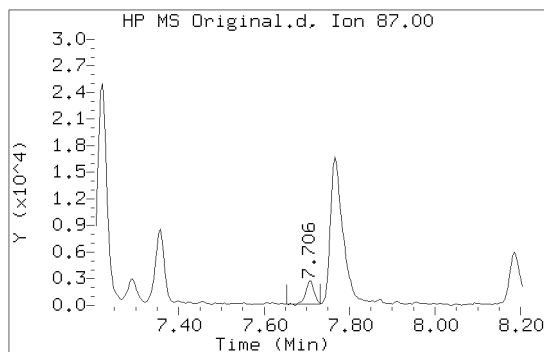
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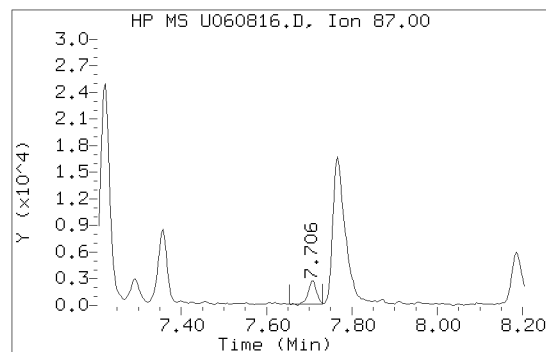
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 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060817.D
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 Als bottle: 16 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.815	4.811	(1.000)		797352	50.0000	
2 Dichlorodifluoromethane	85		1.160	1.157	(0.241)		93252	12.7177	12.71
3 Chloromethane	50		1.291	1.288	(0.268)		228779	18.1883	18.18
5 Vinyl Chloride	62		1.374	1.370	(0.285)		158182	18.7554	18.75
6 Bromomethane	94		1.614	1.610	(0.335)		90195	19.7239	19.72
7 Chloroethane	64		1.696	1.693	(0.352)		101805	17.9191	17.91
8 Trichlorofluoromethane	101		1.891	1.891	(0.393)		198642	20.5070	20.50
9 Acrolein	56		2.262	2.259	(0.470)		12812	30.2726	30.27
10 Acetone	43		2.405	2.401	(0.499)		89529	28.8522	28.85
11 1,1-Dichloroethene	96		2.330	2.326	(0.484)		146572	24.2173	24.21
15 Iodomethane	142		2.465	2.461	(0.512)		98501	29.2438	29.24
16 Acrylonitrile	53		3.065	3.061	(0.636)		109952	37.1841	37.18
17 Methylene Chloride	84		2.791	2.787	(0.580)		143685	19.1386	19.13
18 Methyl tert-butyl ether	73		3.080	3.072	(0.640)		350877	18.9051	18.90
19 Carbon Disulfide	76		2.517	2.514	(0.523)		646434	39.9525	39.95
20 trans-1,2-Dichloroethene	96		3.057	3.053	(0.635)		132492	20.1292	20.12
21 Vinyl Acetate	43		3.604	3.601	(0.749)		742084	36.9853	36.98
22 1,1-Dichloroethane	63		3.511	3.511	(0.729)		327374	26.1717	26.17
24 2-Butanone	43		4.264	4.260	(0.886)		123706	34.0282	34.02
26 2,2-Dichloropropane	77		4.182	4.178	(0.868)		164890	20.1773	20.17



27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	427173	54.2483	54.24
28 Chloroform	83	4.572	4.568 (0.949)	317226	24.3665	24.36

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060817.D Page 2
Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.467	4.467	(0.928)	83906	19.0492	19.04
\$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	326082	48.7142	48.71
31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	202351	20.3928	20.39
32 1,1-Dichloropropene	75	4.920	4.916	(0.886)	184398	22.8990	22.89
33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	204489	21.5021	21.50
34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	172568	23.3298	23.32
\$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	352728	48.6891	48.68
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	1098779	50.0000	
37 Benzene	78	5.138	5.138	(0.925)	577846	21.8247	21.82
38 Trichloroethene	130	5.786	5.786	(1.042)	319439	41.6256	41.62
39 Bromodichloromethane	83	6.277	6.277	(1.130)	169849	20.5651	20.56
42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	171830	24.3064	24.30
44 Dibromomethane	93	6.120	6.120	(1.102)	90767	20.0949	20.09
45 4-Methyl-2-Pentanone	43	6.858	6.855	(0.838)	305275	42.7245	42.72
46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	195795	18.9298	18.92
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	981200	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1251556	56.3577	56.35
50 Toluene	91	6.982	6.978	(0.853)	622785	23.4019	23.40
51 trans-1,3-Dichloropropene	75	7.199	7.196	(1.296)	162870	18.8489	18.84
52 2-Hexanone	43	7.593	7.593	(0.928)	200202	40.2334	40.23
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	119844	21.6431	21.64
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	242726	21.4550	21.45
55 Dibromochloromethane	129	7.694	7.690	(0.940)	144340	21.9693	21.96
56 Tetrachloroethene	164	7.458	7.458	(0.911)	268828	41.4609	41.46
57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	144051	21.0887	21.08
58 1-Chlorohexane	55	8.197	8.197	(1.476)	131587	23.3223	23.32
59 Chlorobenzene	112	8.212	8.208	(1.003)	418776	22.0486	22.04
60 1,1,1,2-Tetrachloroethane	131	8.286	8.283	(1.012)	142939	21.8963	21.89
61 Ethylbenzene	106	8.305	8.305	(1.015)	209764	23.7287	23.72
62 m,p-Xylenes	106	8.410	8.410	(1.027)	503693	48.1595	48.15
63 o-Xylene	106	8.748	8.748	(1.069)	239183	23.1491	23.14
64 Styrene	104	8.763	8.763	(1.071)	386244	23.5557	23.55
66 Bromoform	173	8.920	8.920	(1.090)	91598	20.6544	20.65
67 Isopropylbenzene	105	9.062	9.062	(1.107)	615121	24.7863	24.78
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	192003	19.9836	19.98
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	431133	49.2604	49.26
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	510788	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	169431	20.0450	20.04
73 n-Propylbenzene	91	9.411	9.411	(0.925)	650162	24.2666	24.26
74 Bromobenzene	156	9.317	9.317	(0.916)	183263	21.2642	21.26
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	409119	22.2579	22.25
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	425755	22.6054	22.60
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	468116	22.4544	22.45
78 tert-Butylbenzene	119	9.838	9.838	(0.967)	432553	23.9601	23.96
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	412761	21.4618	21.46
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	561584	24.5292	24.52
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	445889	23.2473	23.24
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	315846	21.5774	21.57
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	327298	20.9713	20.97
87 n-Butylbenzene	91	10.494	10.491	(1.032)	384837	23.4373	23.43
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	310479	21.1550	21.15
89 1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	27571	19.6649	19.66



90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	208056	20.6101	20.61
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	92290	22.6382	22.63

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 Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
92 Naphthalene	128	12.069	12.069	(1.186)	512232	21.8445	21.84
93 1,2,3-Trichlorobenzene	180	12.271	12.268	(1.206)	207788	21.0551	21.05
M 94 1,2-Dichloroethylene (total)	96				559665	74.3774	74.37
M 95 Xylenes (total)	106				742876	71.3086	71.30
135 1,4-Dioxane	88	6.172	6.169	(1.282)	41792	263.964	263.96
141 Cyclohexane	56	4.781	4.778	(0.993)	209986	21.8470	21.84
138 Freon TF	101	2.334	2.330	(0.485)	113461	21.1875	21.18
140 1,3-Butadiene	54	1.400	1.396	(0.291)	139701	18.5004	18.50
147 Methylcyclohexane	55	5.947	5.947	(1.071)	343653	22.5461	22.54
146 Methyl Acetate	43	2.712	2.705	(0.563)	116620	17.3703	17.37
148 Tert-Butyl alcohol	59	2.967	2.960	(0.616)	283457	381.707	381.70
149 Isopropyl Alcohol	45	2.562	2.555	(0.532)	186352	357.508	357.50
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	23902	21.1566	21.15
12 Isobutyl Alcohol	43	5.288	5.288	(1.098)	448584	433.004	433.00
13 Acetonitrile	39	2.667	2.667	(0.554)	167102	193.571	193.57
14 Allyl Chloride	41	2.671	2.667	(0.555)	385184	18.6068	18.60
25 Methacrylonitrile	41	4.497	4.493	(0.934)	85596	18.1697	18.16
40 Methyl Methacrylate	41	6.157	6.157	(1.279)	129352	18.8676	18.86
4 Propionitrile	54	4.339	4.335	(0.901)	210163	182.402	182.40(a)
136 n-Hexane	57	3.342	3.338	(0.694)	147678	22.6192	22.61
131 Methyl Acrylate	55	4.369	4.365	(0.907)	158034	18.7405	18.74
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	86124	15.5744	15.57
23 Chloroprene	53	2.154	2.150	(0.447)	49808	19.5854	19.58(M)
49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	196362	20.3869	20.38
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	385646	19.6416	19.64
167 Ethanol	45	2.082	2.075	(0.433)	39749	385.796	385.79
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	548971	22.0326	22.03
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	169790	20.0027	20.00
142 Tetrahydrofuran	42	4.545	4.542	(0.944)	54642	37.3561	37.35
156 Diisopropyl ether	45	3.619	3.616	(0.752)	424176	19.0786	19.07
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	546940	334.745	334.74
150 Allyl alcohol	57	3.342	3.338	(0.694)	147678	452.892	452.89
86 Benzyl Chloride	91	10.311	10.311	(1.260)	102981	19.8043	19.80
162 Butyl acrylate	55	8.733	8.733	(1.067)	235547	20.2945	20.29
139 Diethyl ether	59	2.142	2.139	(0.445)	100074	18.5751	18.57
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	95838	21.1848	21.18
134 Cyclohexanone	55	9.156	9.156	(0.900)	93635	295.687	295.68(a)
130 Ethyl Acetate	43	4.343	4.339	(0.902)	146623	20.5715	20.57
189 n-Butyl acetate	43	7.709	7.705	(0.942)	219417	19.6395	19.63(M)

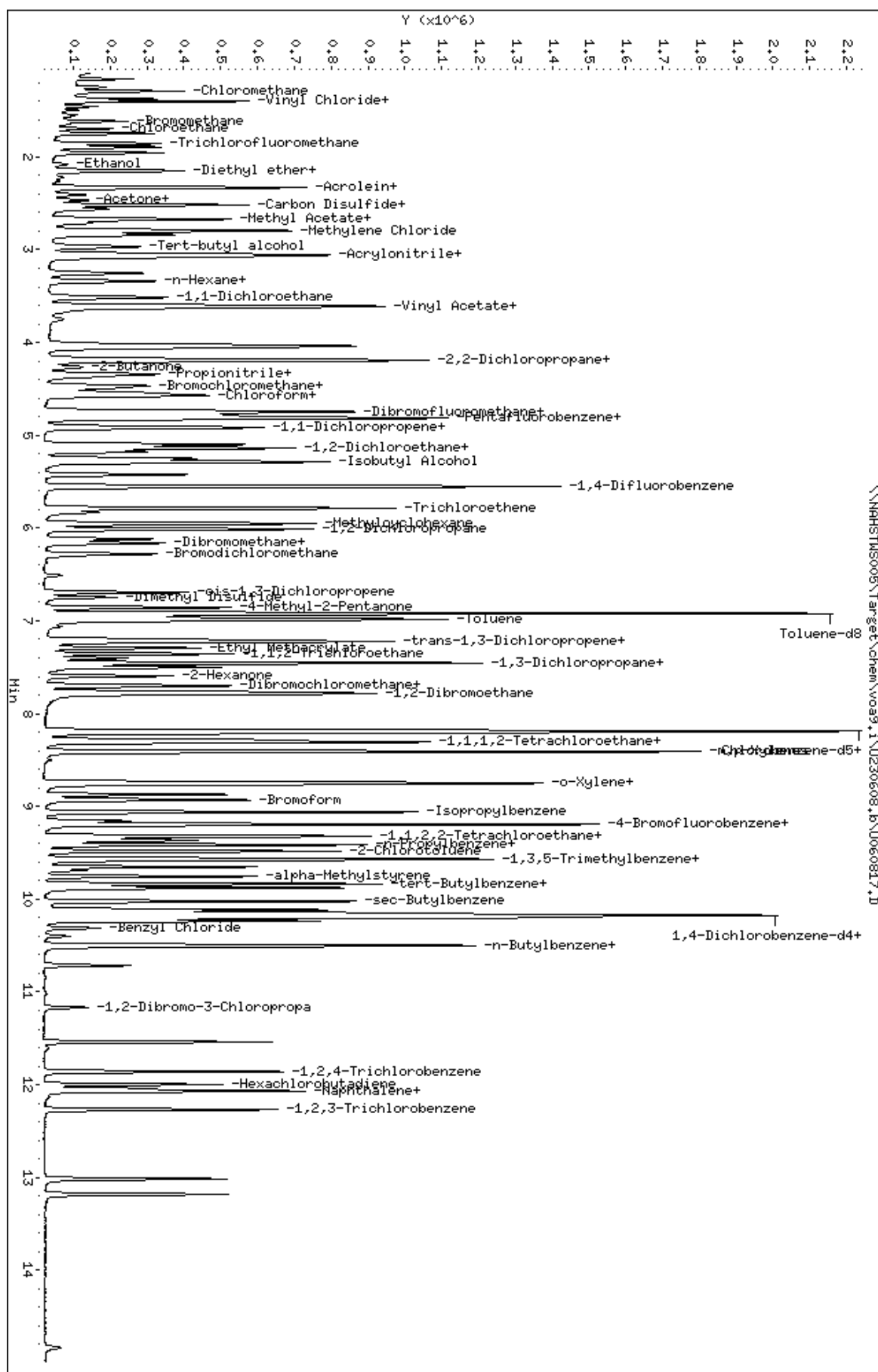
QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060817.D
 Date : 08-JUN-2023 16:40
 Client ID: HS23060241-04MSD
 Sample Info: HS23060241-04MSD\HS23060241-04MSD\3;MSD
 Purge Volume: 5.0
 Column phase: DB624

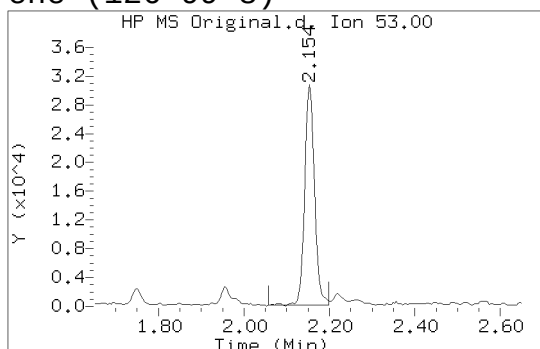
Instrument: VOA9.i
 Operator: PC
 Column diameter: 0.18



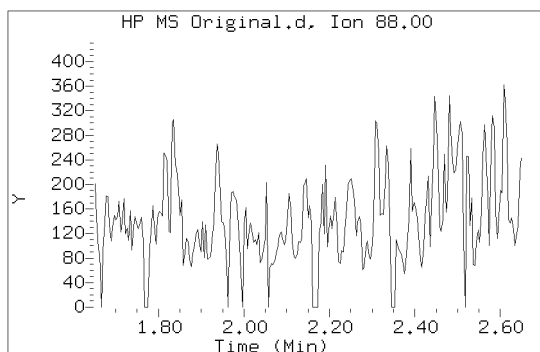
Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060817.D
Inj Date : 08-JUN-2023 16:40
InstruID : VOA9.i
LabSampID : HS23060241-04MSD

Chloroprene (126-99-8)**BEFORE**

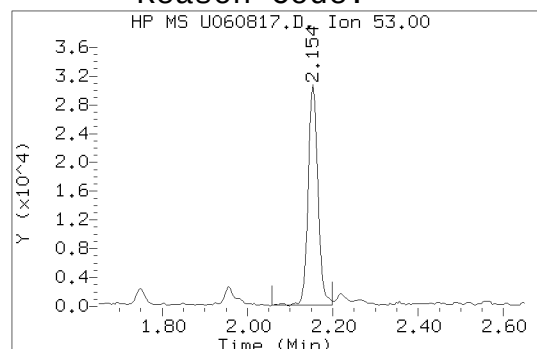
MASS
53
AREA
49808
HEIGHT
30625
13-Jun-2023
14:20
linh

**BEFORE**

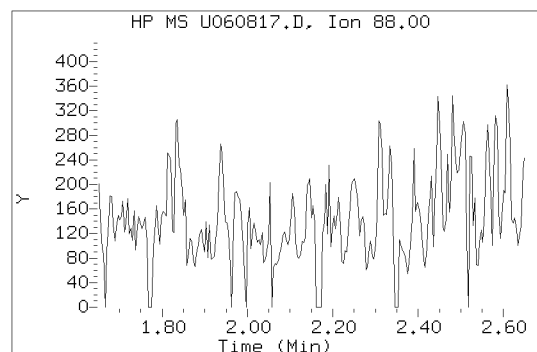
MASS
88
AREA
0
HEIGHT
0
13-Jun-2023
14:20
linh
pham

**AFTER**

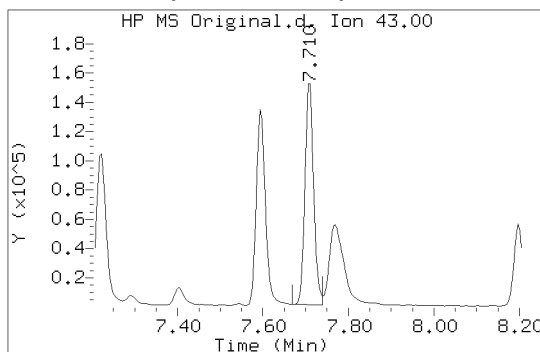
MASS
53
AREA
49808
HEIGHT
30625
13-Jun-2023
14:20
linh

**AFTER**

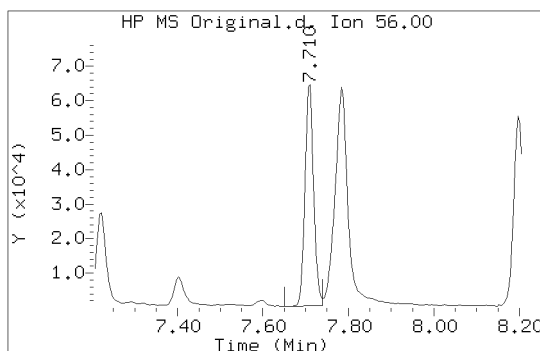
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88
AREA
0
HEIGHT
0
13-Jun-2023
14:20
linh
pham

**n-Butyl acetate (123-86-4)****BEFORE**

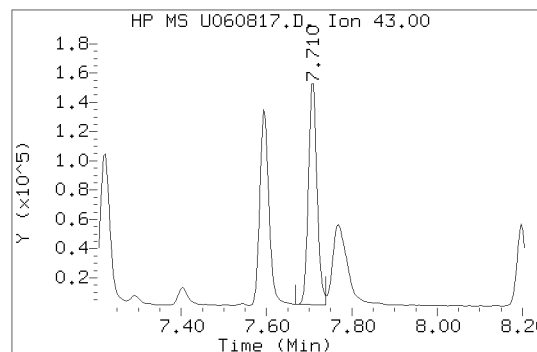
MASS
43
AREA
219417
HEIGHT
150791
13-Jun-2023
14:20
linh
pham

**BEFORE**

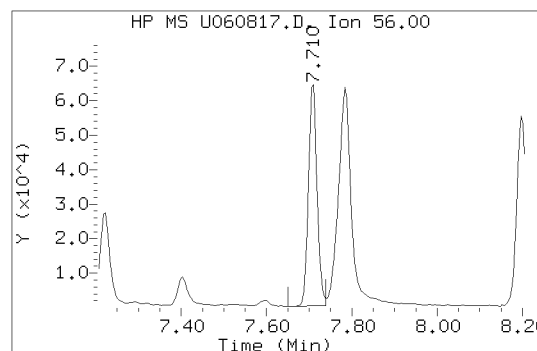
MASS
56
AREA
92251
HEIGHT
64065
13-Jun-2023
14:20
linh
pham

**AFTER**

MASS
43
AREA
219417
HEIGHT
150791
13-Jun-2023
14:20
linh
pham

**AFTER**

MASS
56
AREA
92251
HEIGHT
64065
13-Jun-2023
14:20
linh
pham

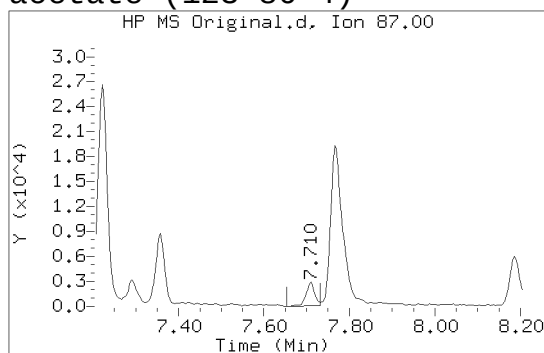


Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060817.D
Inj Date : 08-JUN-2023 16:40
InstruID : VOA9.i
LabSampID : HS23060241-04MSD

n-Butyl acetate (123-86-4)

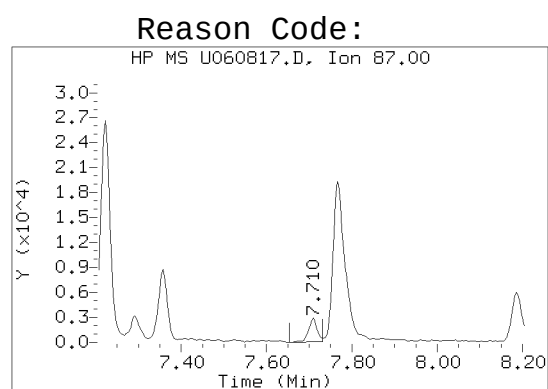
BEFORE

MASS
87
AREA
4164
HEIGHT
2857
13-Jun-2023
14:20
linh
pham



AFTER

MASS
87
AREA
4164
HEIGHT
2857
13-Jun-2023
14:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060820.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060820.D
 Lab Smp Id: HS23060280-01 Client Smp ID: HS23060280-01
 Inj Date : 08-JUN-2023 17:47
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-01;HS23060280-01;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.811	(1.000)	762211	50.0000	
11 1,1-Dichloroethene	96	2.337	2.326	(0.485)	27493	4.75195	4.75(a)
22 1,1-Dichloroethane	63	3.522	3.511	(0.731)	11048	0.92394	0.92(a)
\$ 30 Dibromofluoromethane	113	4.751	4.744	(0.986)	309064	48.2978	48.29
33 1,2-Dichloroethane	62	5.182	5.175	(0.933)	13252	1.44740	1.44(a)
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	345919	49.9683	49.96
* 36 1,4-Difluorobenzene	114	5.557	5.550	(1.000)	1057828	50.0000	
38 Trichloroethene	130	5.794	5.786	(1.042)	8259	1.11788	1.11(a)
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	966353	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1182023	54.0443	54.04
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	410111	47.5474	47.54
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	480464	50.0000	

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060820.D

Date: 08-JUN-2023 17:47

Client ID: HS23060280-01

Sample Info: HS23060280-01;HS23060280-01;;

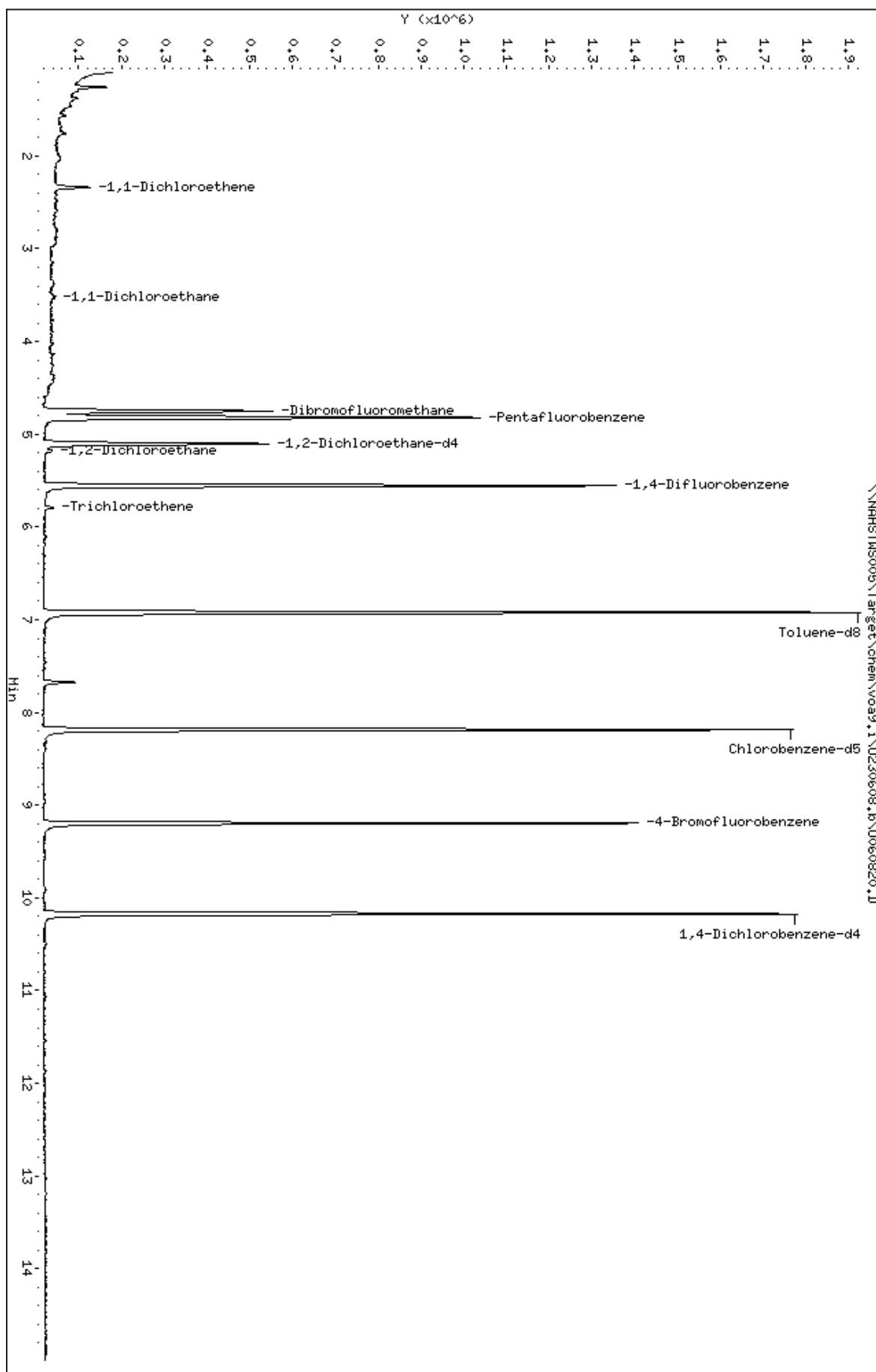
Purge Volume: 5.0

Column phase: DB624

Instrument: W049.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230608,b\U060820.D

Page 2

Date : 08-JUN-2023 17:47

Client ID: HS23060280-01

Instrument: VOA9.i

Sample Info: HS23060280-01;HS23060280-01;;

Purge Volume: 5.0

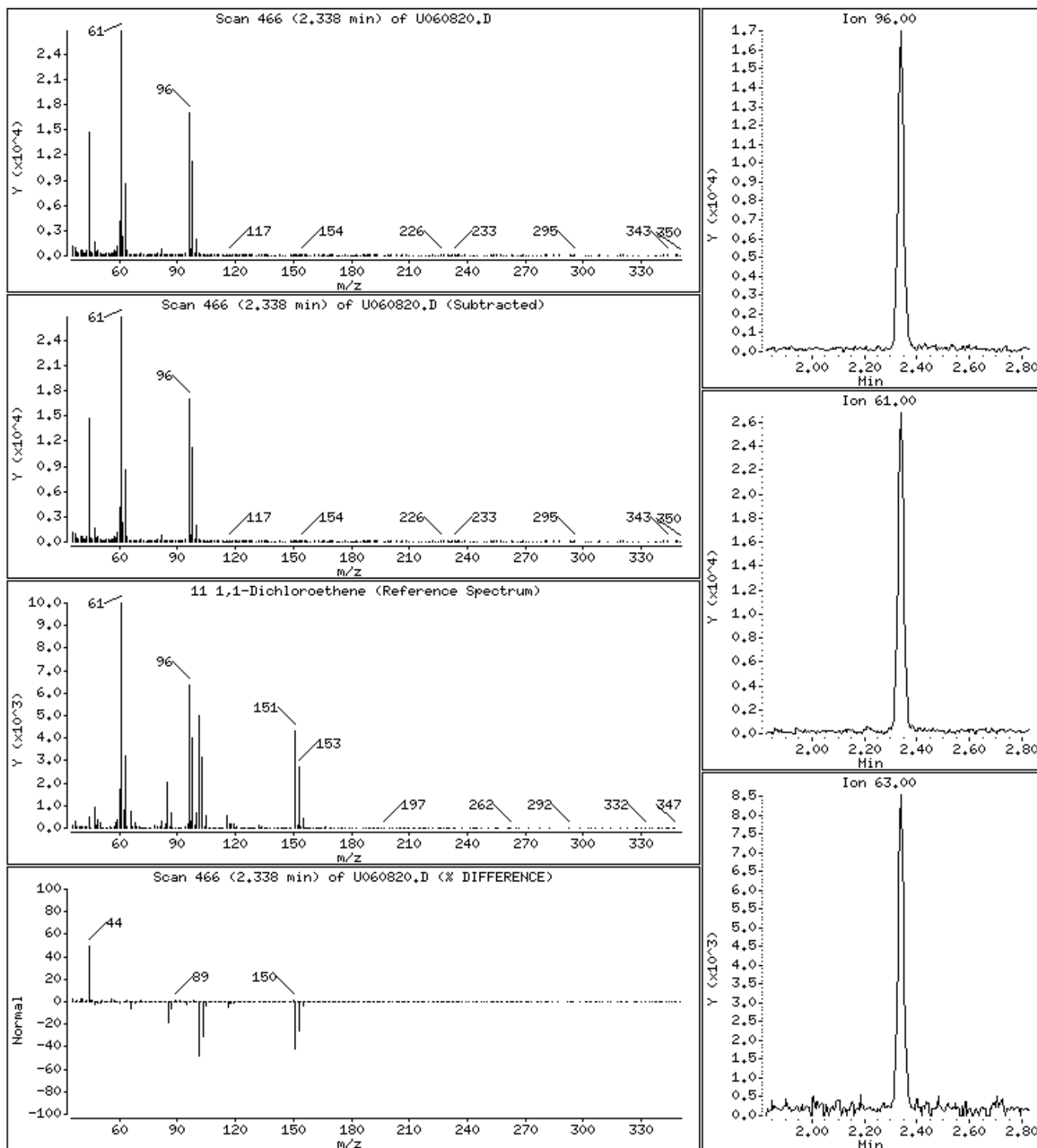
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 4.75 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060820.D

Page 3

Date : 08-JUN-2023 17:47

Client ID: HS23060280-01

Instrument: VOA9.i

Sample Info: HS23060280-01;HS23060280-01;;;

Purge Volume: 5.0

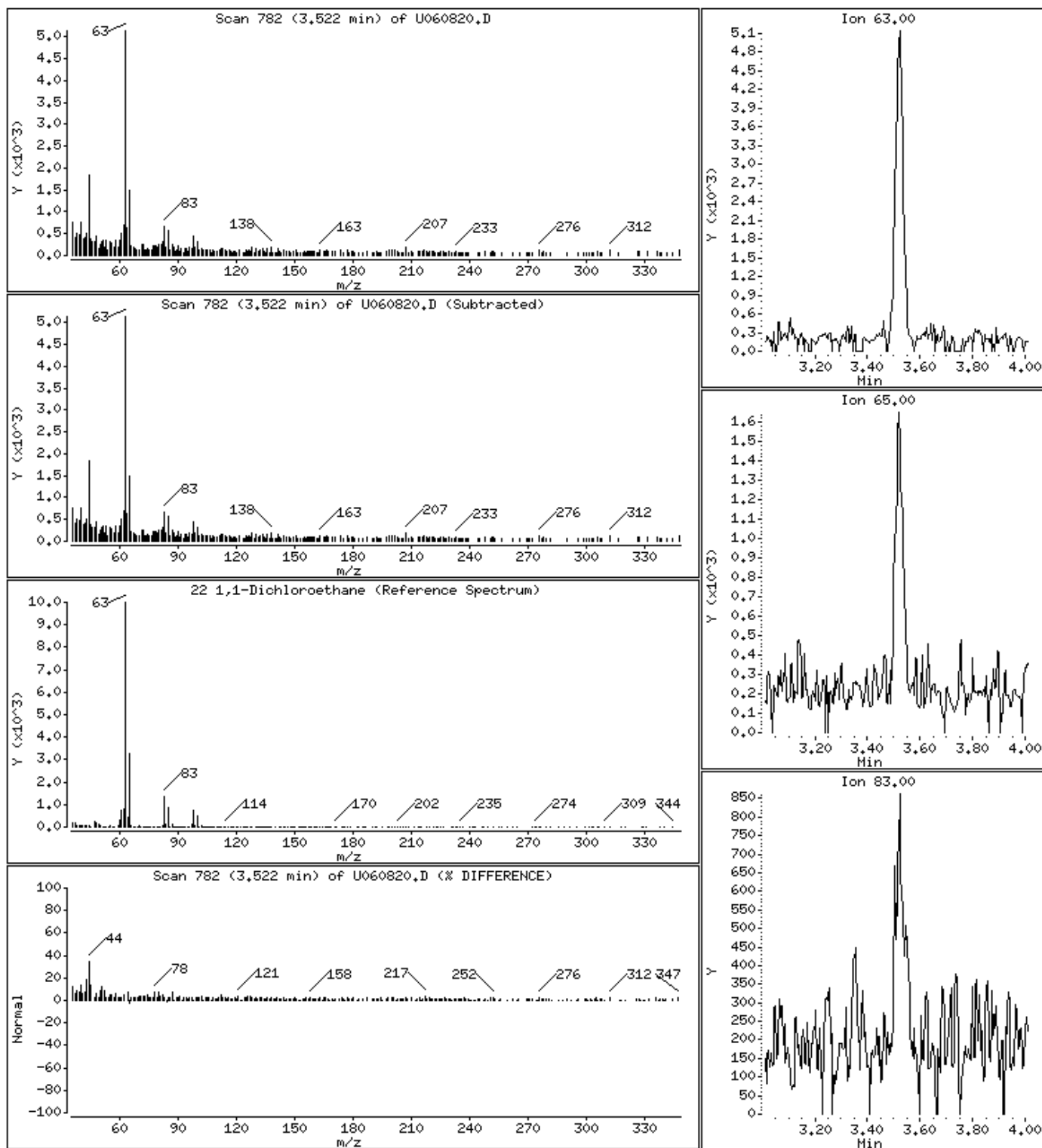
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 0.92 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060820.D

Page 4

Date : 08-JUN-2023 17:47

Client ID: HS23060280-01

Instrument: VOA9.i

Sample Info: HS23060280-01;HS23060280-01;;;

Purge Volume: 5.0

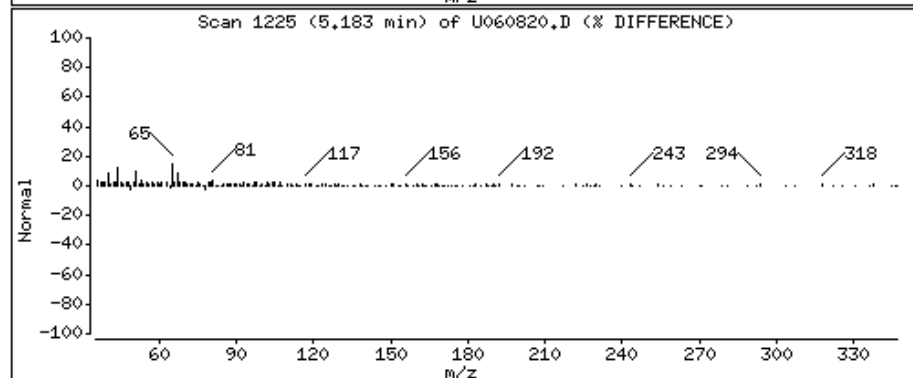
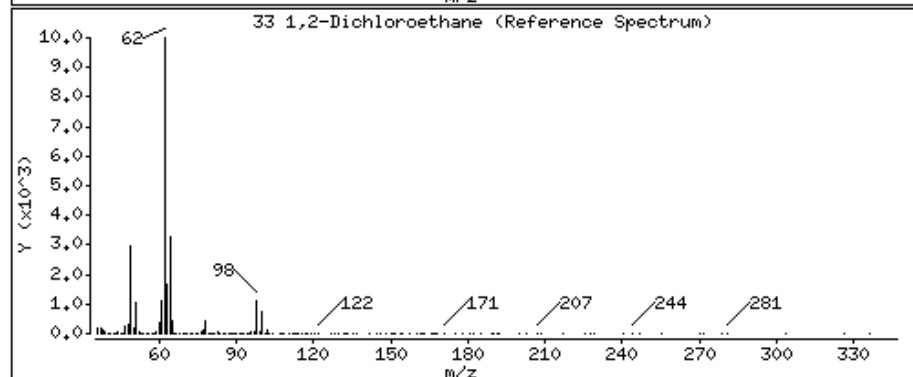
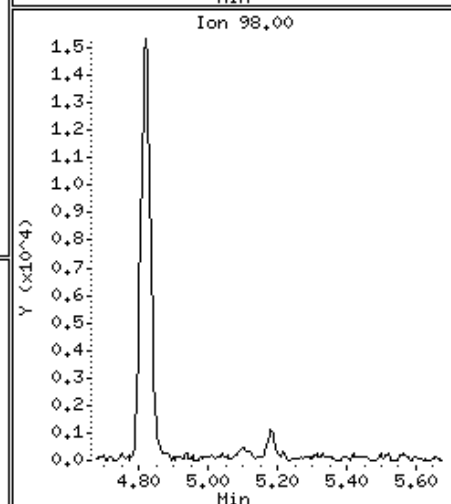
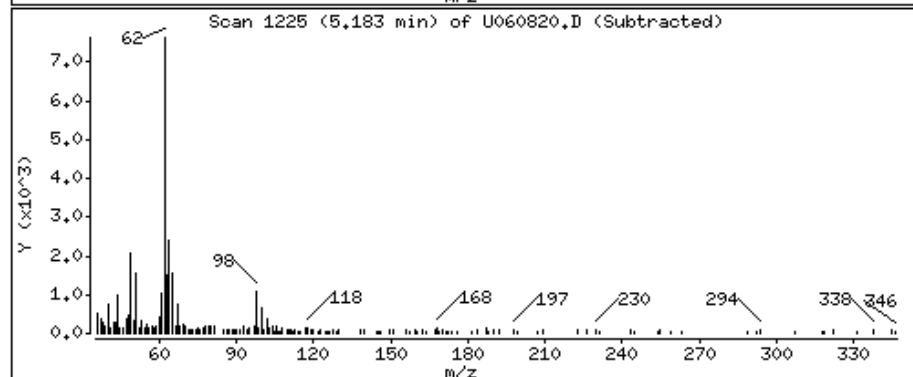
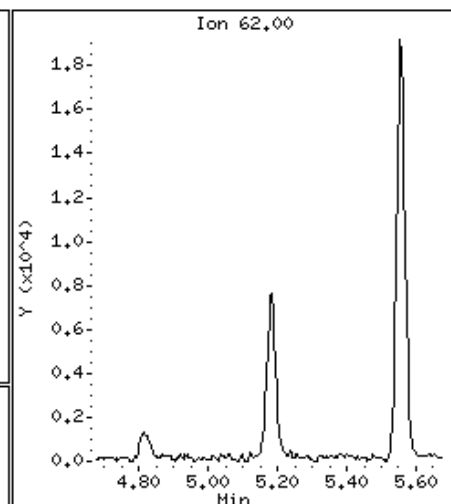
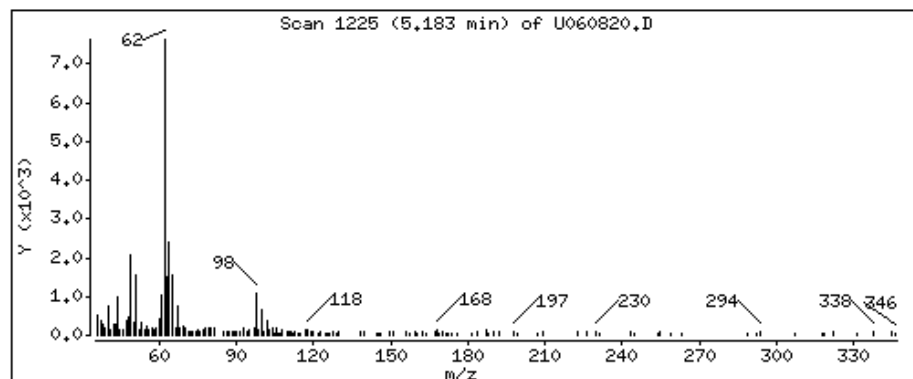
Operator: PC

Column phase: DB624

Column diameter: 0.18

33 1,2-Dichloroethane

Concentration: 1.44 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060820.D

Page 5

Date : 08-JUN-2023 17:47

Client ID: HS23060280-01

Instrument: VOA9.i

Sample Info: HS23060280-01;HS23060280-01;;

Purge Volume: 5.0

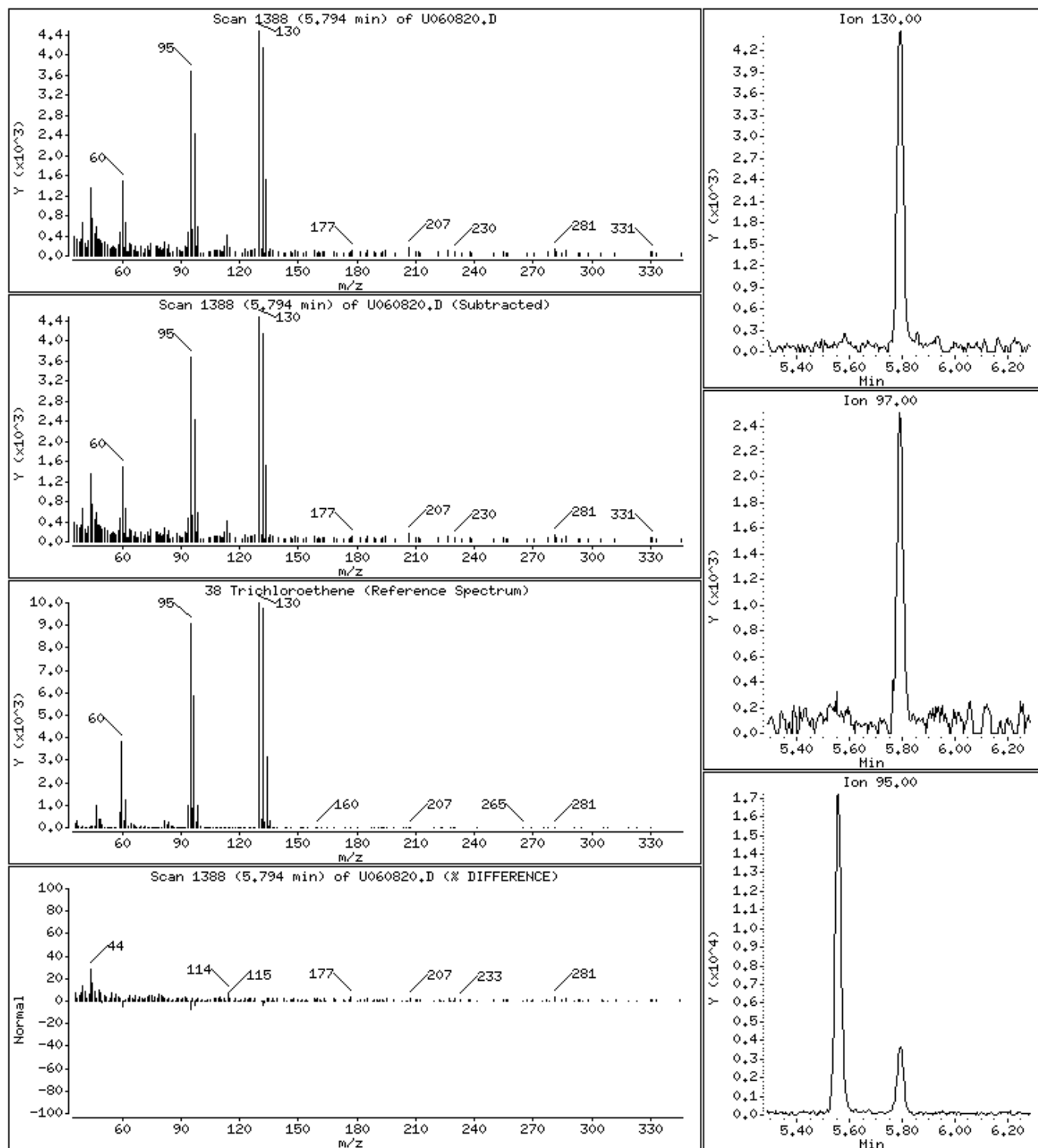
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 1.11 ug/l



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060820.D
Inj Date : 08-JUN-2023 17:47
InstruID : VOA9.i
LabSampID : HS23060280-01

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D
 Lab Smp Id: HS23060280-03 Client Smp ID: HS23060280-03
 Inj Date : 08-JUN-2023 18:09
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-03;HS23060280-03;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.811	4.811	(1.000)		698149	50.0000	
5 Vinyl Chloride	62		1.370	1.370	(0.285)		401244	54.3349	54.33
11 1,1-Dichloroethene	96		2.326	2.326	(0.483)		493628	93.1486	93.14
22 1,1-Dichloroethane	63		3.510	3.511	(0.730)		143548	13.1065	13.10
27 cis-1,2-Dichloroethene	96		4.193	4.193	(0.871)		8075	1.17119	1.17(a)
\$ 30 Dibromofluoromethane	113		4.744	4.744	(0.986)		288891	49.2944	49.29
33 1,2-Dichloroethane	62		5.179	5.175	(0.933)		5416	0.65625	0.65(a)
\$ 35 1,2-Dichloroethane-d4	65		5.096	5.096	(1.059)		345185	54.4987	54.49
* 36 1,4-Difluorobenzene	114		5.550	5.550	(1.000)		953524	50.0000	
38 Trichloroethene	130		5.790	5.786	(1.043)		15776	2.36891	2.36(a)
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		967637	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		1182646	54.0011	54.00
\$ 69 4-Bromofluorobenzene	95		9.193	9.194	(1.123)		407278	47.1489	47.14
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		471522	50.0000	
M 94 1,2-Dichloroethylene (total)	96						8075	1.17119	1.17(a)
141 Cyclohexane	56		4.777	4.778	(0.993)		50951	6.24040	6.24

QC Flag Legend



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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.p\U060821.D

Date : 08-JUN-2023 18:09

Client ID: HS23060280-03

Sample Info: HS23060280-03;HS23060280-03;;

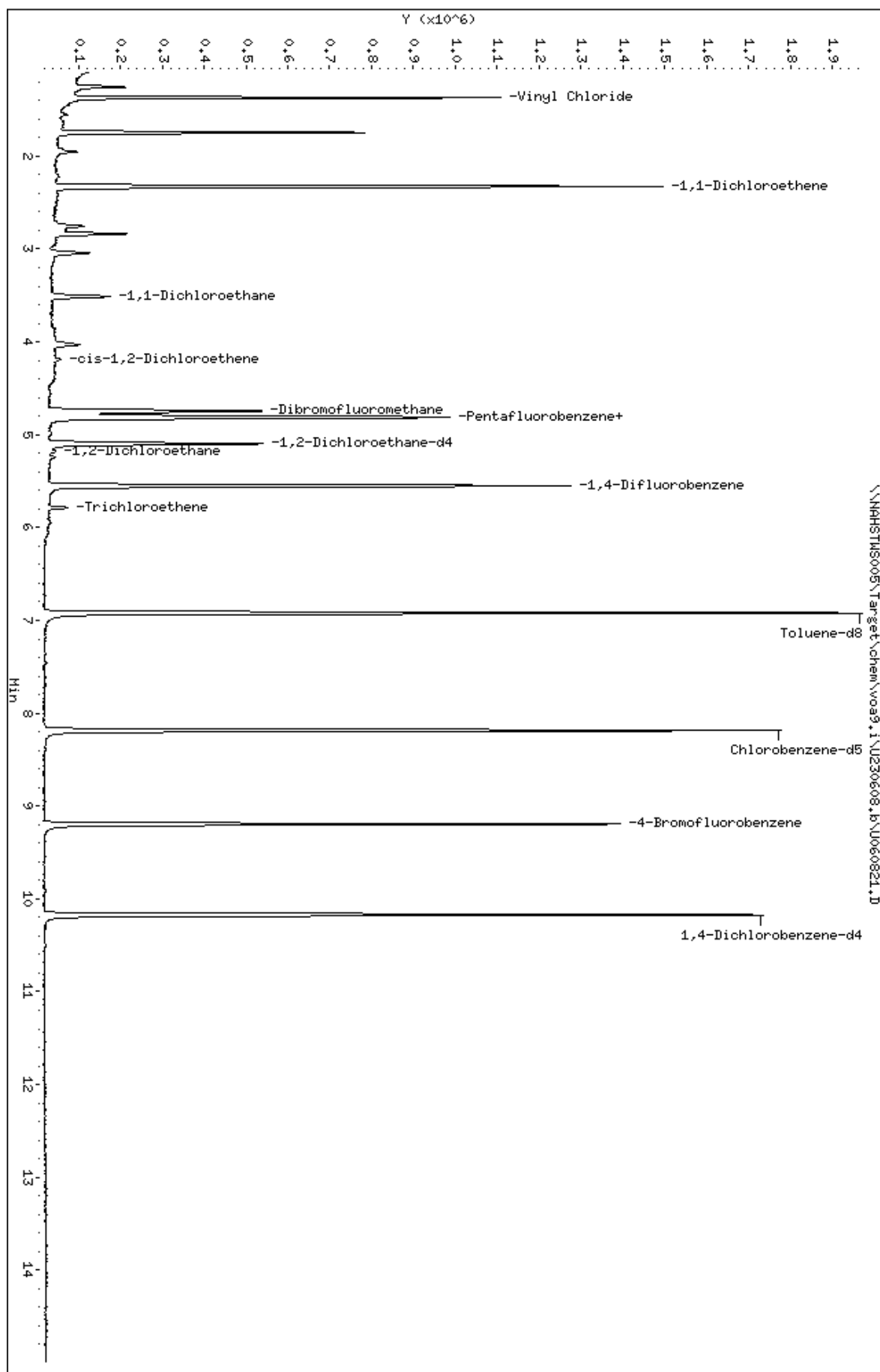
Purge Volume: 5.0

Column phase: DB624

Instrument: VDA9.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U060821.D

Page 2

Date : 08-JUN-2023 18:09

Client ID: HS23060280-03

Instrument: VOA9.i

Sample Info: HS23060280-03;HS23060280-03;;

Purge Volume: 5.0

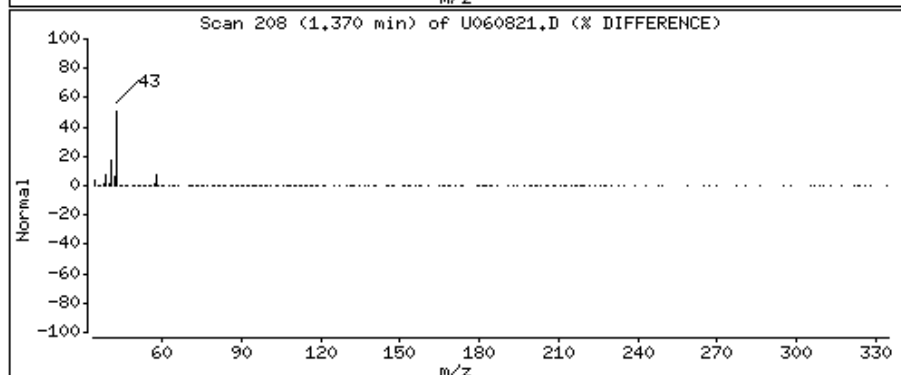
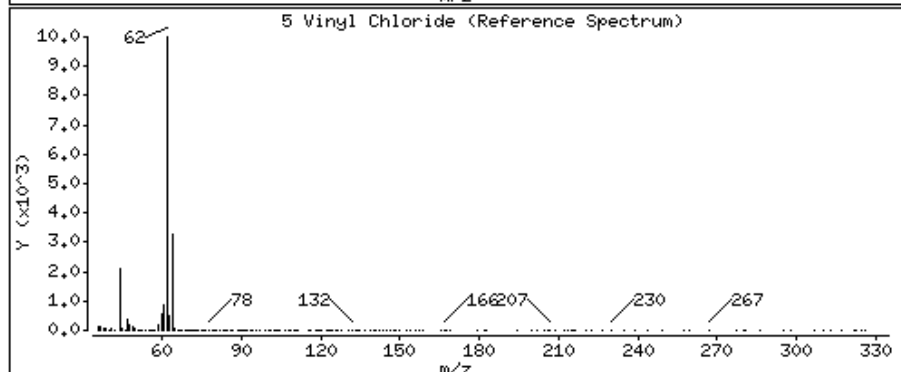
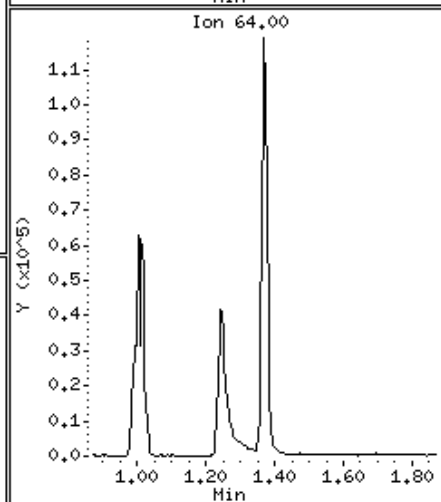
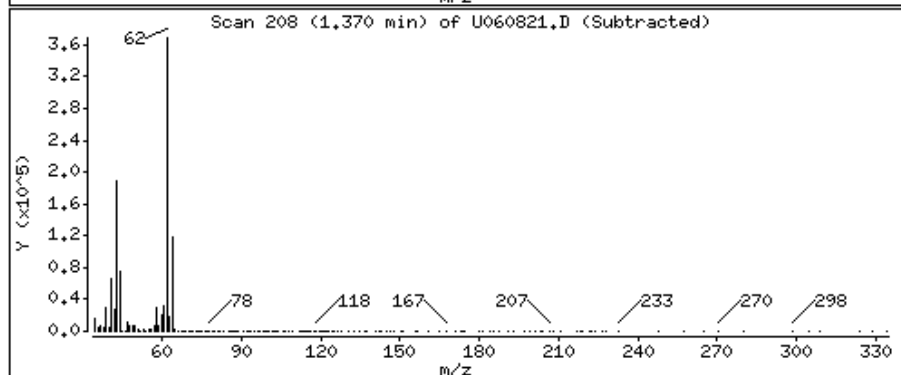
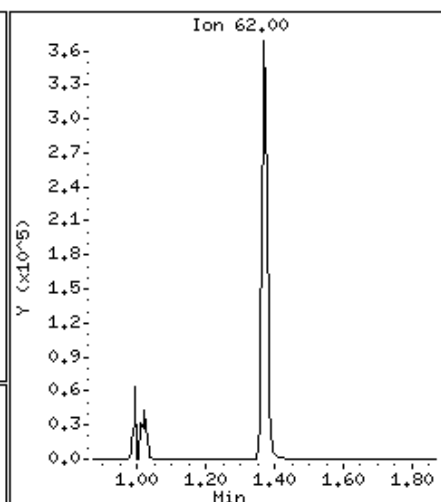
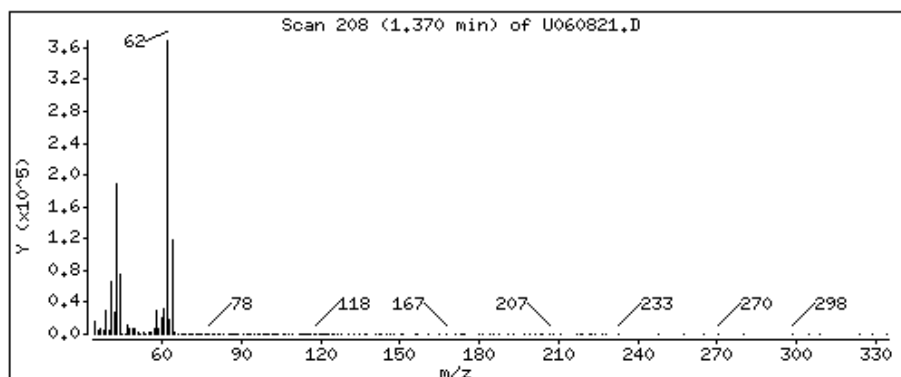
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 54.33 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D

Page 3

Date : 08-JUN-2023 18:09

Client ID: HS23060280-03

Instrument: VOA9.i

Sample Info: HS23060280-03;HS23060280-03;;;

Purge Volume: 5.0

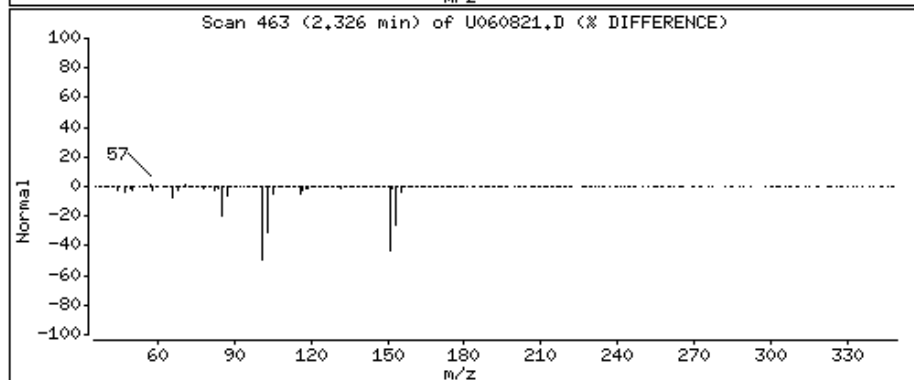
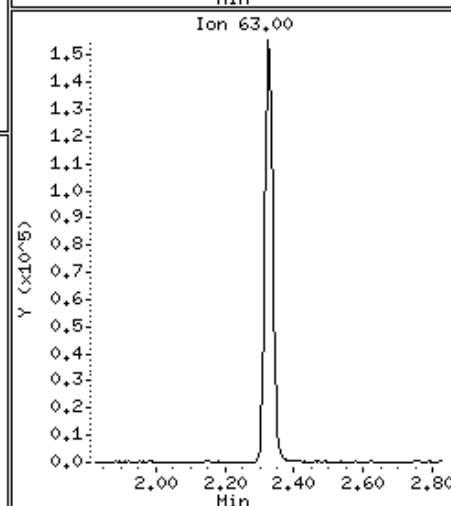
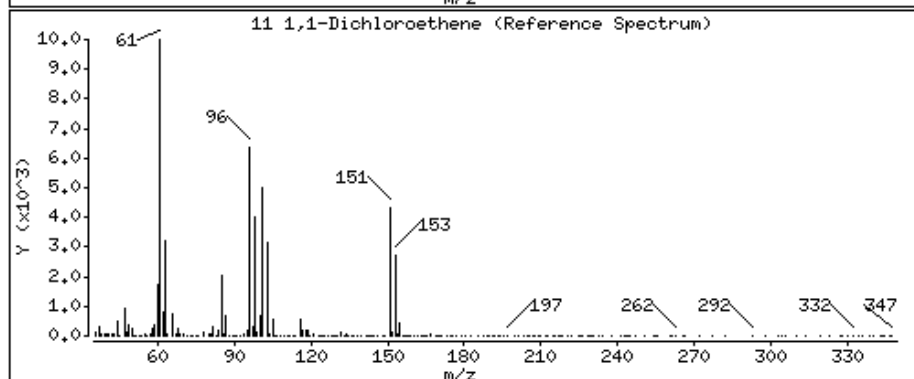
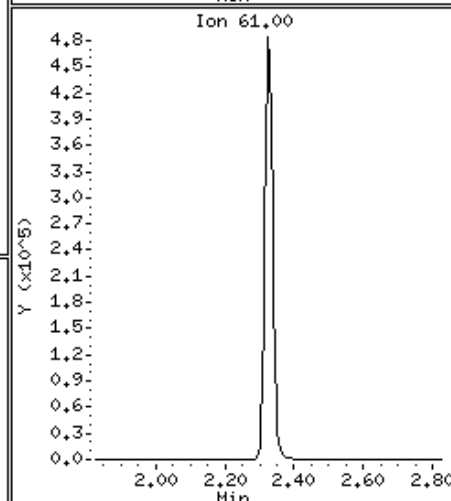
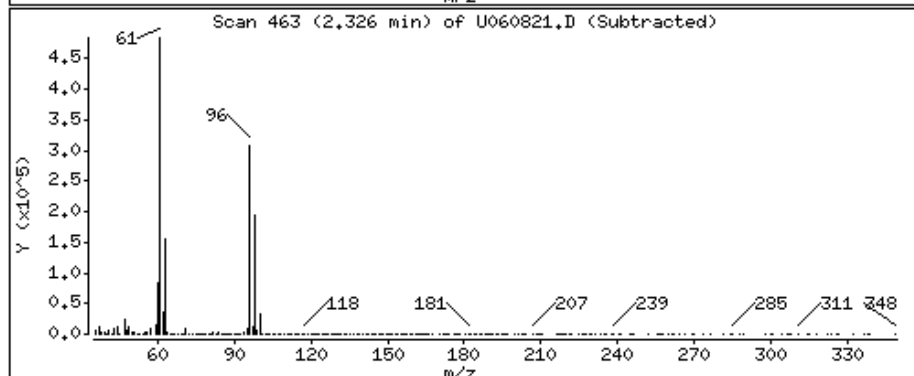
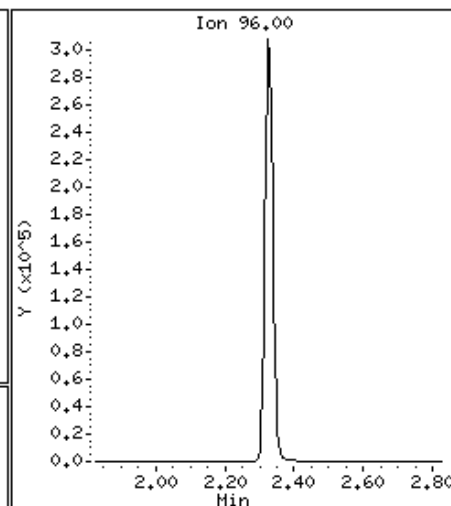
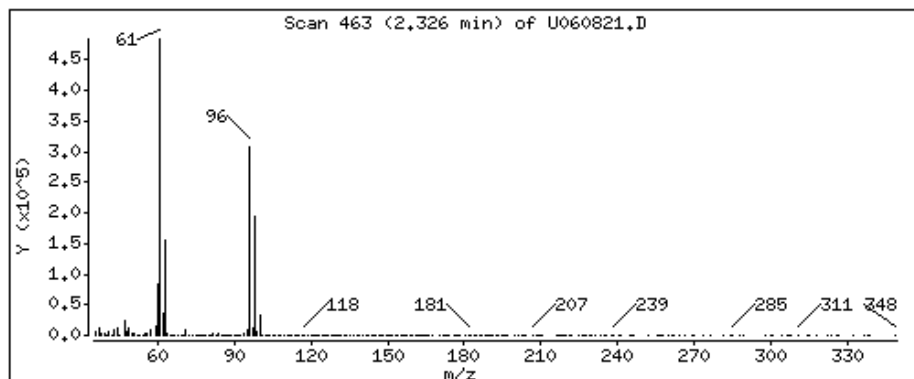
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 93.14 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D

Page 4

Date : 08-JUN-2023 18:09

Client ID: HS23060280-03

Instrument: VOA9.i

Sample Info: HS23060280-03;HS23060280-03;;

Purge Volume: 5.0

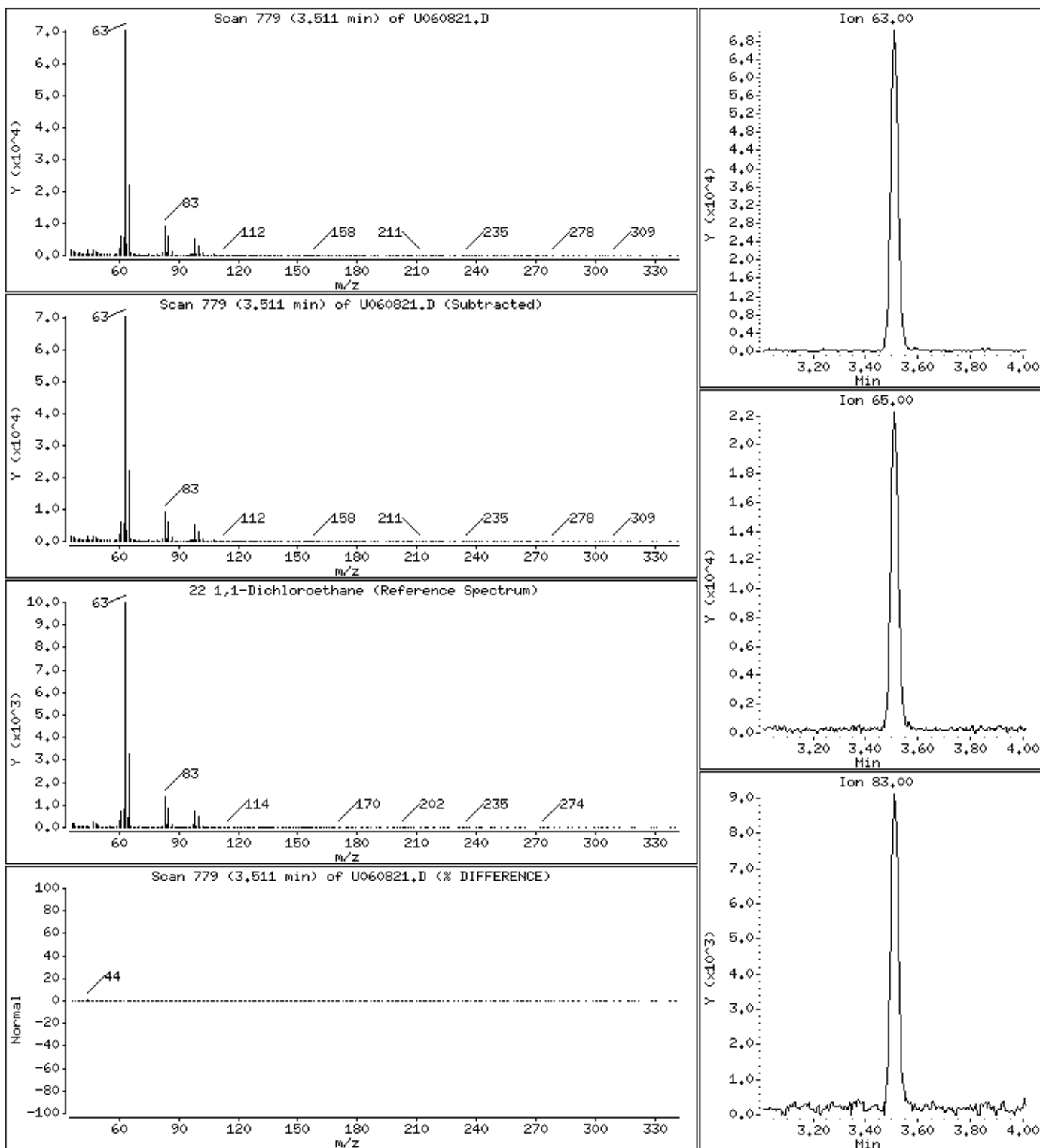
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 13.10 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D

Page 5

Date : 08-JUN-2023 18:09

Client ID: HS23060280-03

Instrument: VOA9.i

Sample Info: HS23060280-03;HS23060280-03;;;

Purge Volume: 5.0

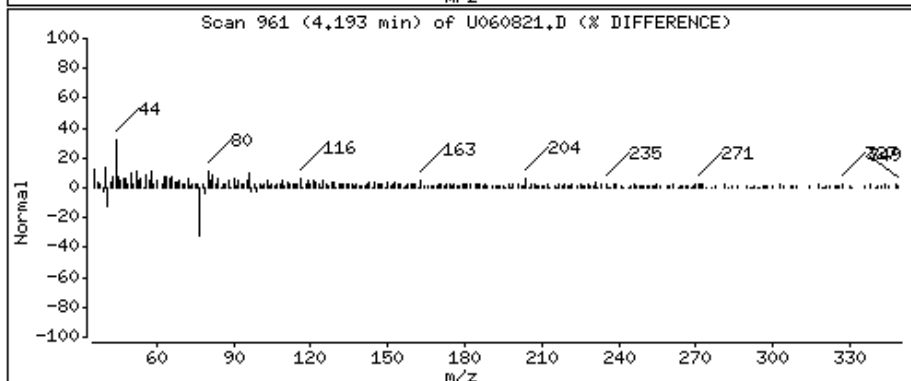
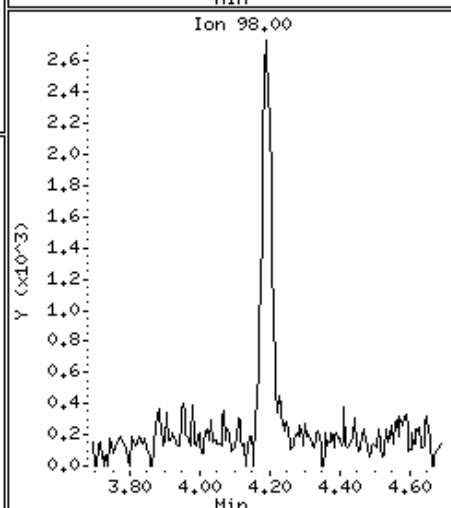
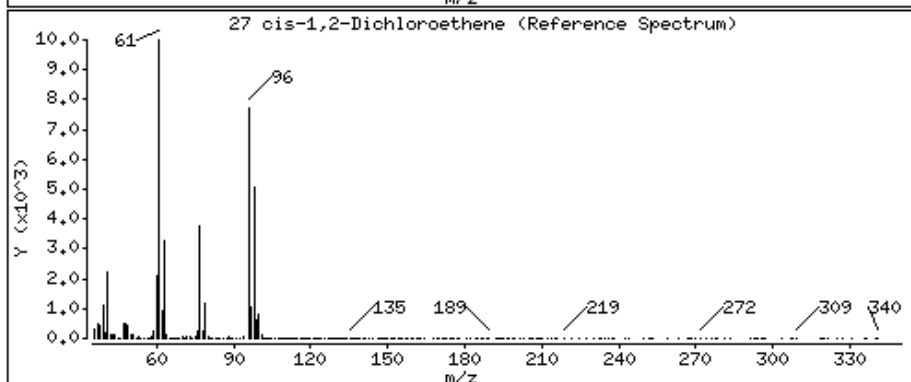
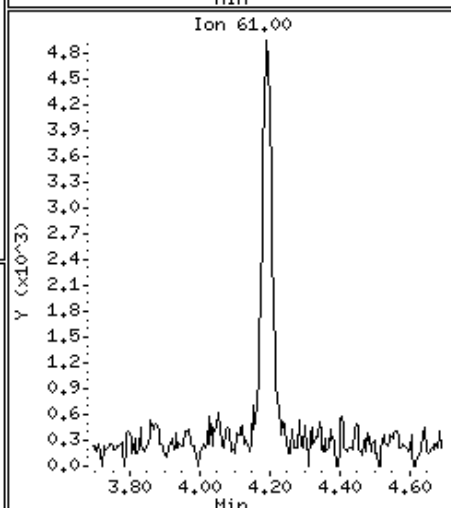
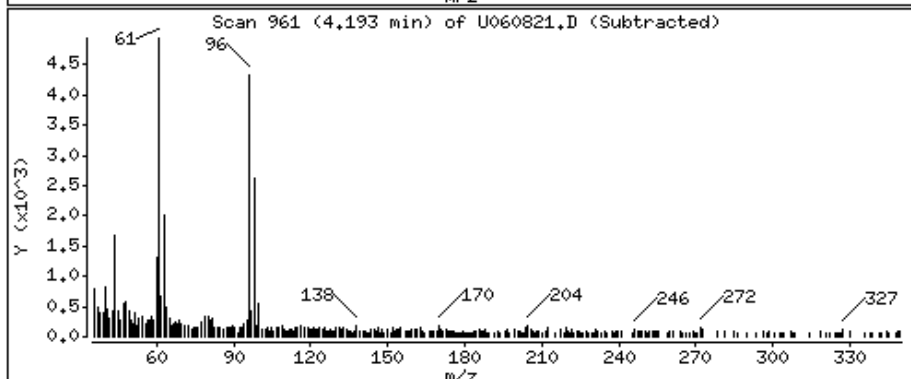
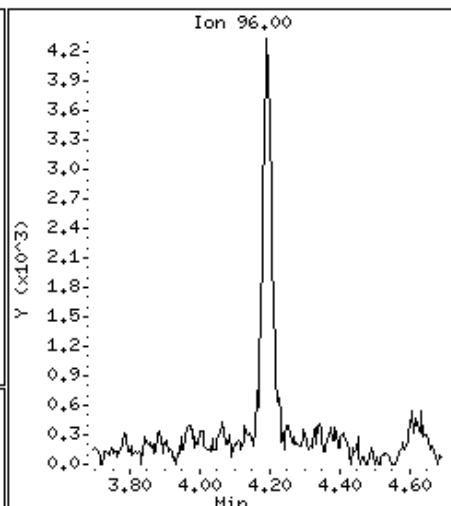
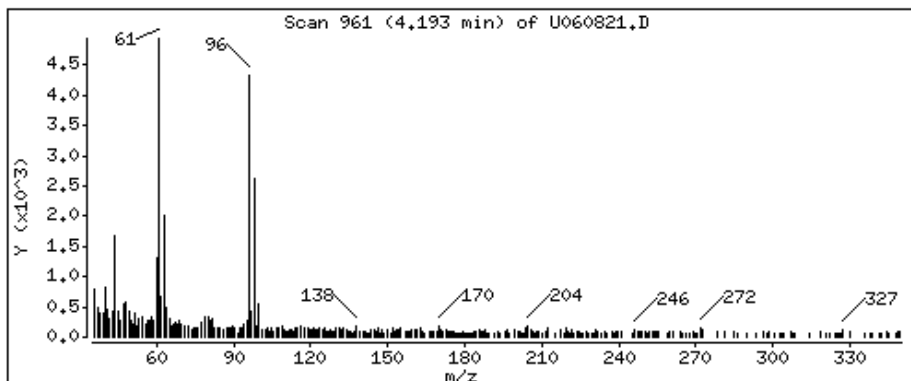
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 1.17 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D

Page 6

Date : 08-JUN-2023 18:09

Client ID: HS23060280-03

Instrument: VOA9.i

Sample Info: HS23060280-03;HS23060280-03;;

Purge Volume: 5.0

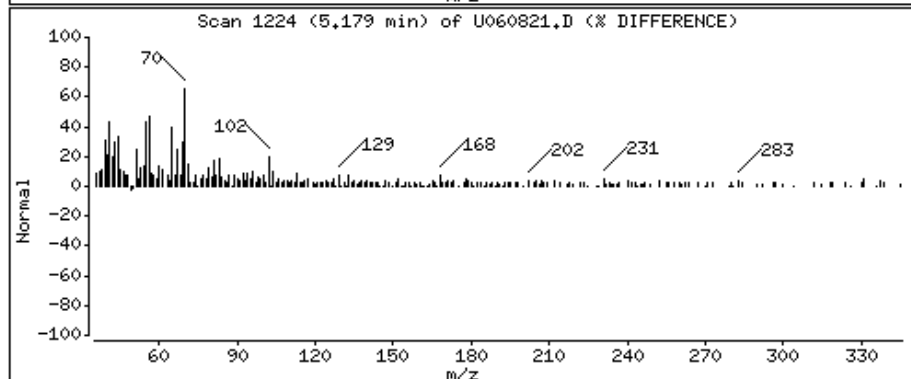
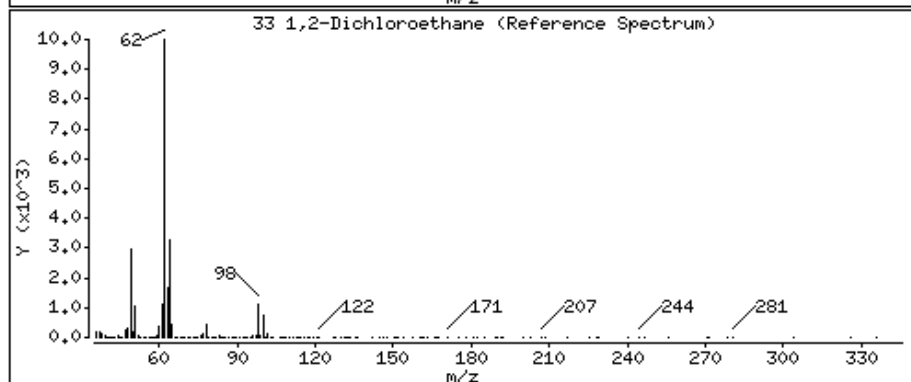
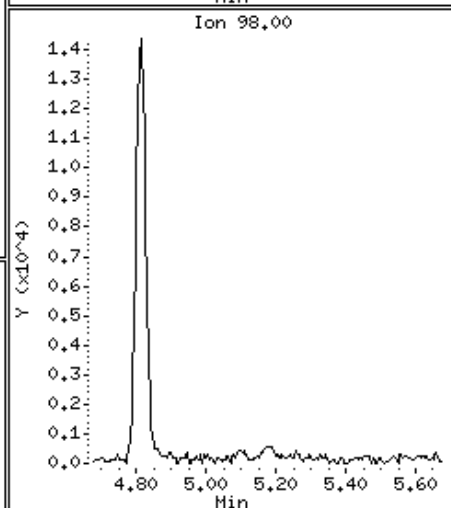
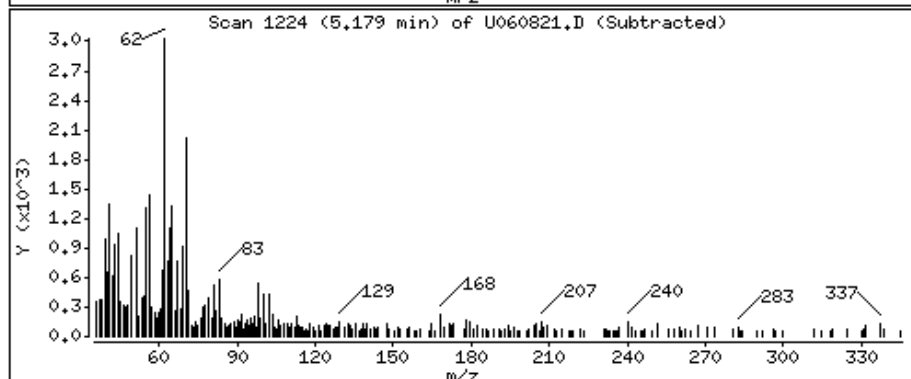
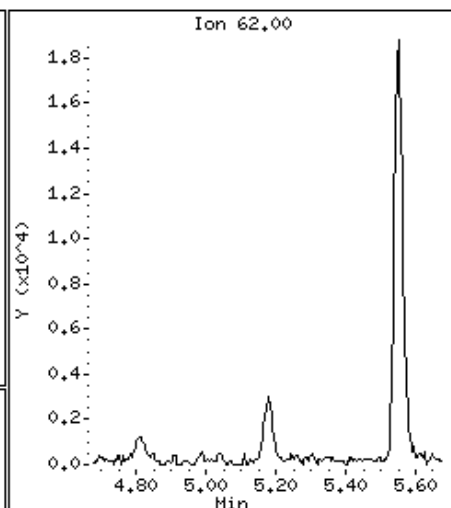
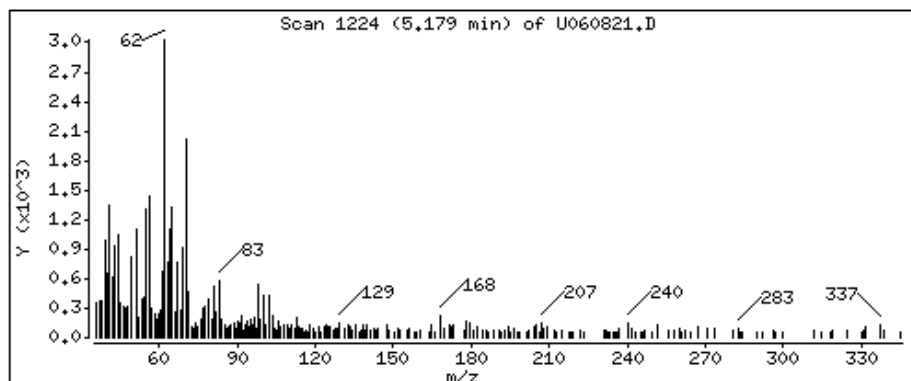
Operator: PC

Column phase: DB624

Column diameter: 0.18

33 1,2-Dichloroethane

Concentration: 0.65 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D

Page 7

Date : 08-JUN-2023 18:09

Client ID: HS23060280-03

Instrument: VOA9.i

Sample Info: HS23060280-03;HS23060280-03;;

Purge Volume: 5.0

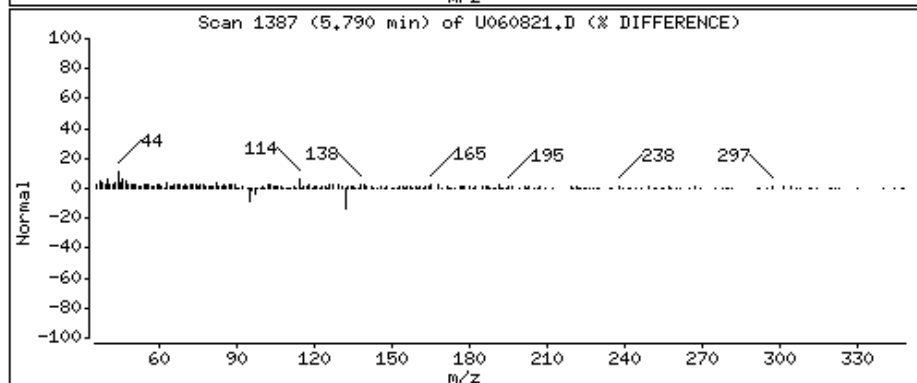
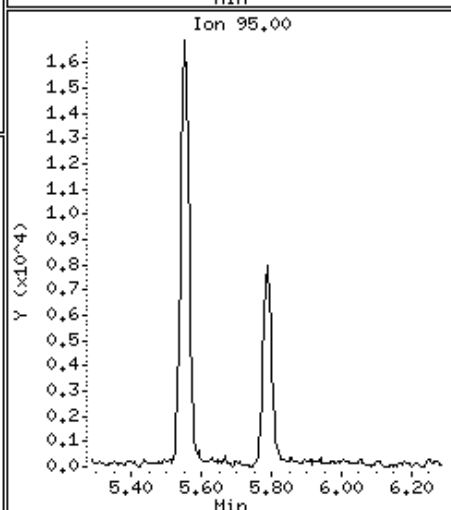
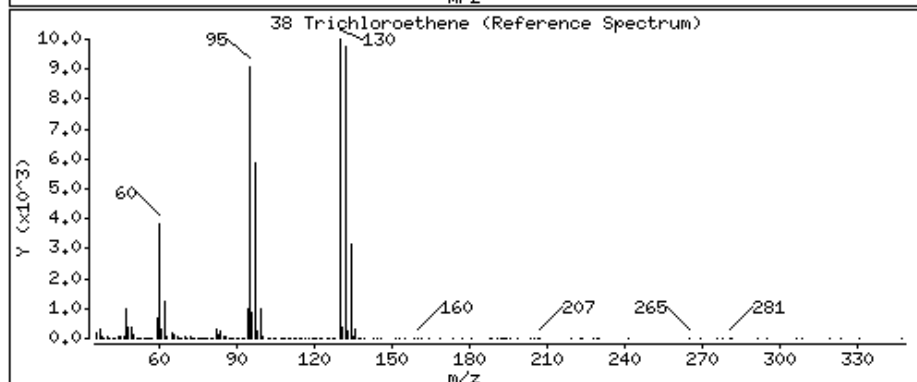
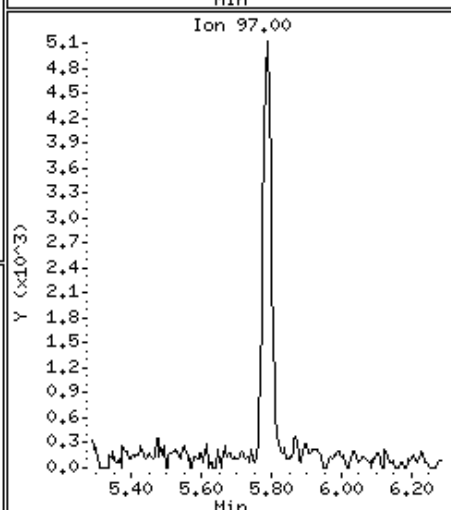
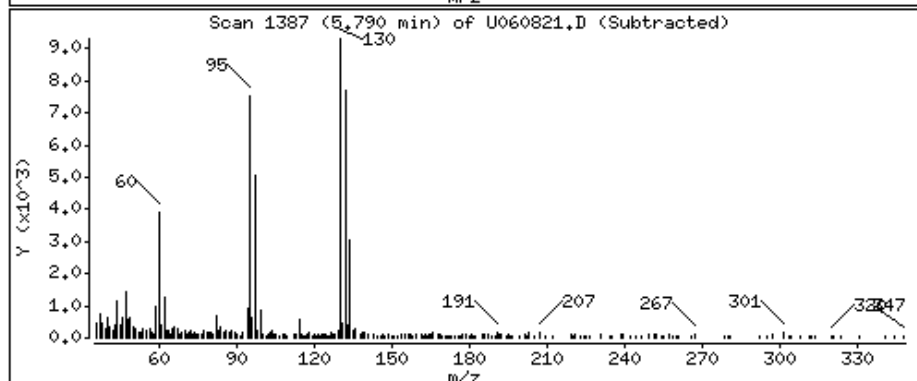
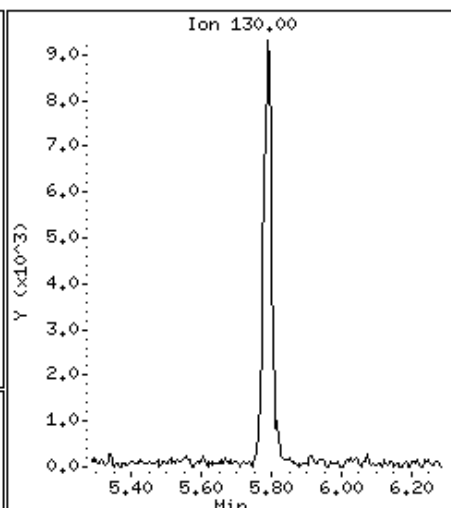
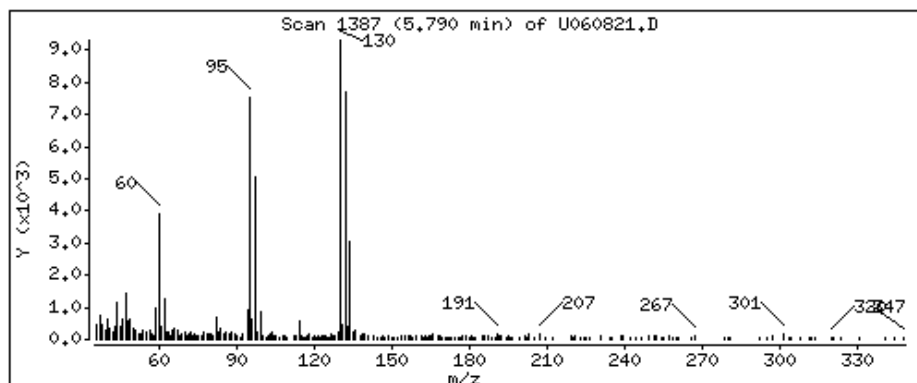
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 2.36 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D

Page 8

Date : 08-JUN-2023 18:09

Client ID: HS23060280-03

Instrument: VOA9.i

Sample Info: HS23060280-03;HS23060280-03;;

Purge Volume: 5.0

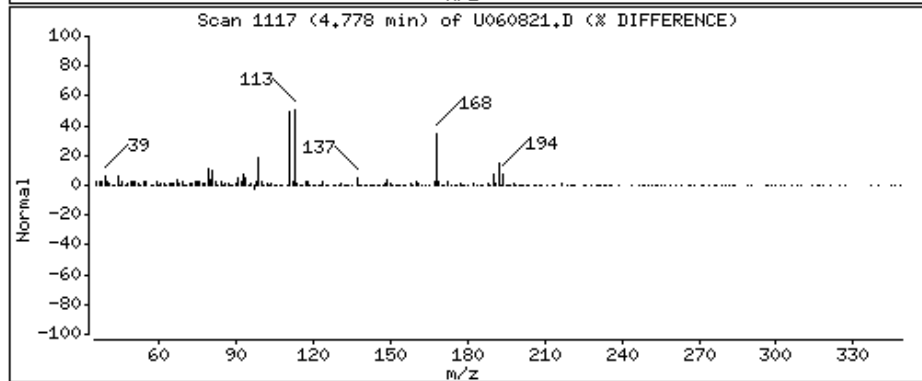
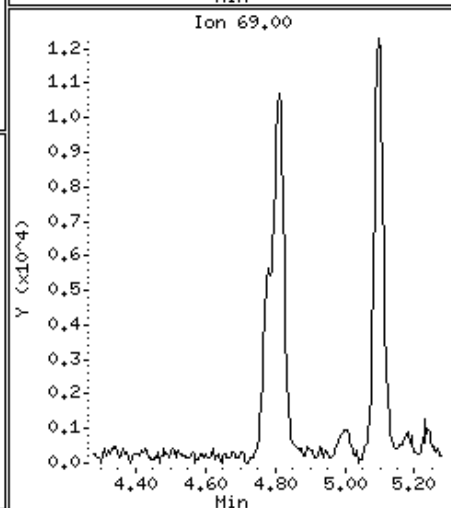
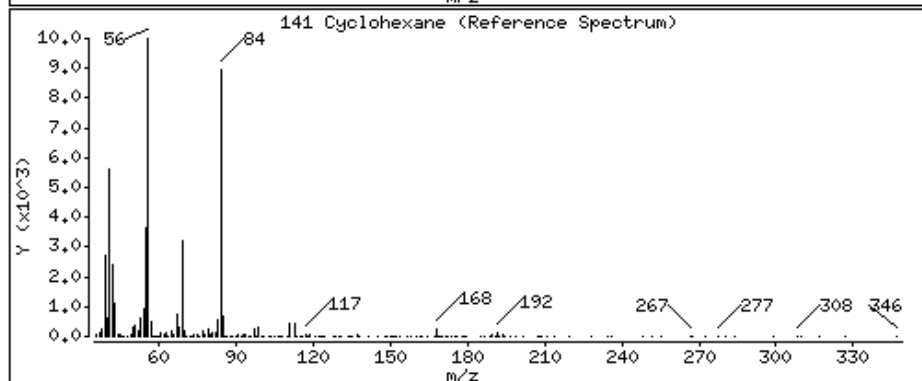
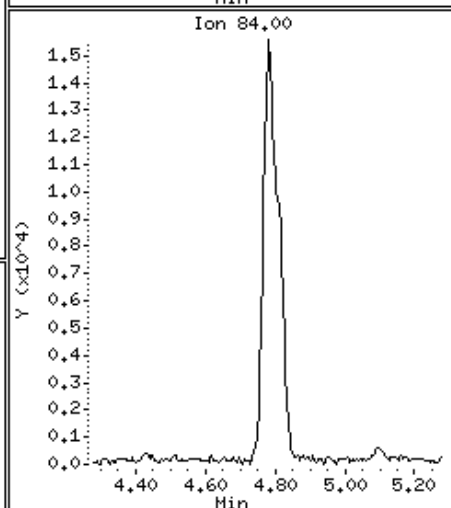
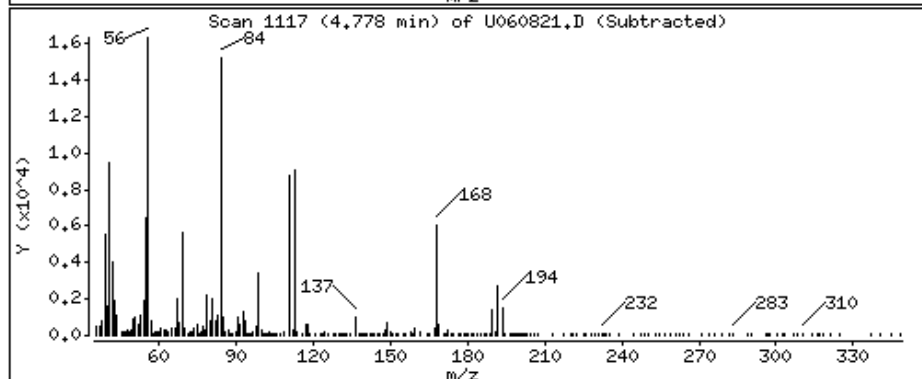
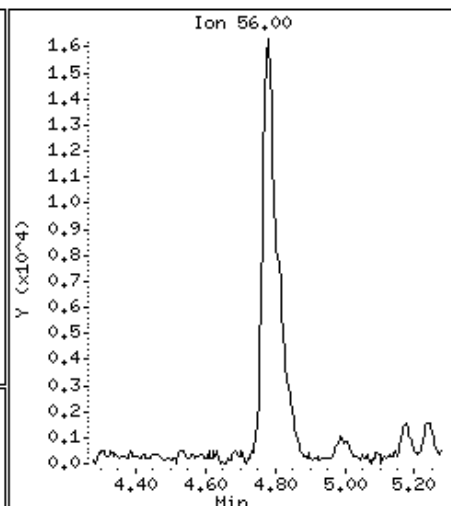
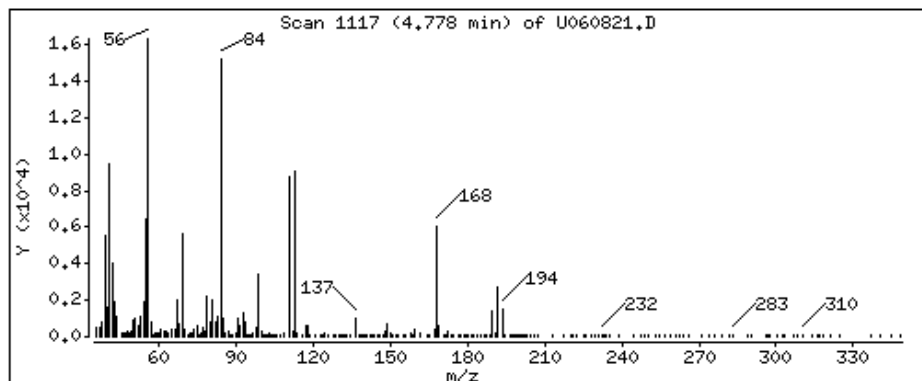
Operator: PC

Column phase: DB624

Column diameter: 0.18

141 Cyclohexane

Concentration: 6.24 ug/l



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060821.D
Inj Date : 08-JUN-2023 18:09
InstruID : VOA9.i
LabSampID : HS23060280-03

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060822.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060822.D
 Lab Smp Id: HS23060280-04 Client Smp ID: HS23060280-04
 Inj Date : 08-JUN-2023 18:32
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-04;HS23060280-04;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.819	4.811	(1.000)	784209	50.0000		
11 1,1-Dichloroethene	96		2.333	2.326	(0.484)	7096	1.19208	1.19(a)	
22 1,1-Dichloroethane	63		3.522	3.511	(0.731)	6924	0.56281	0.56(a)	
\$ 30 Dibromofluoromethane	113		4.751	4.744	(0.986)	312962	47.5301	47.53	
\$ 35 1,2-Dichloroethane-d4	65		5.100	5.096	(1.058)	353915	49.6855	49.68	
* 36 1,4-Difluorobenzene	114		5.557	5.550	(1.000)	1073764	50.0000		
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)	974997	50.0000		
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)	1200122	54.3854	54.38	
\$ 69 4-Bromofluorobenzene	95		9.193	9.194	(1.123)	409842	47.0864	47.08	
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)	487350	50.0000		

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060822.D

Date : 08-JUN-2023 18:32

Client ID: HS23060280-04

Sample Info: HS23060280-04;HS23060280-04;;

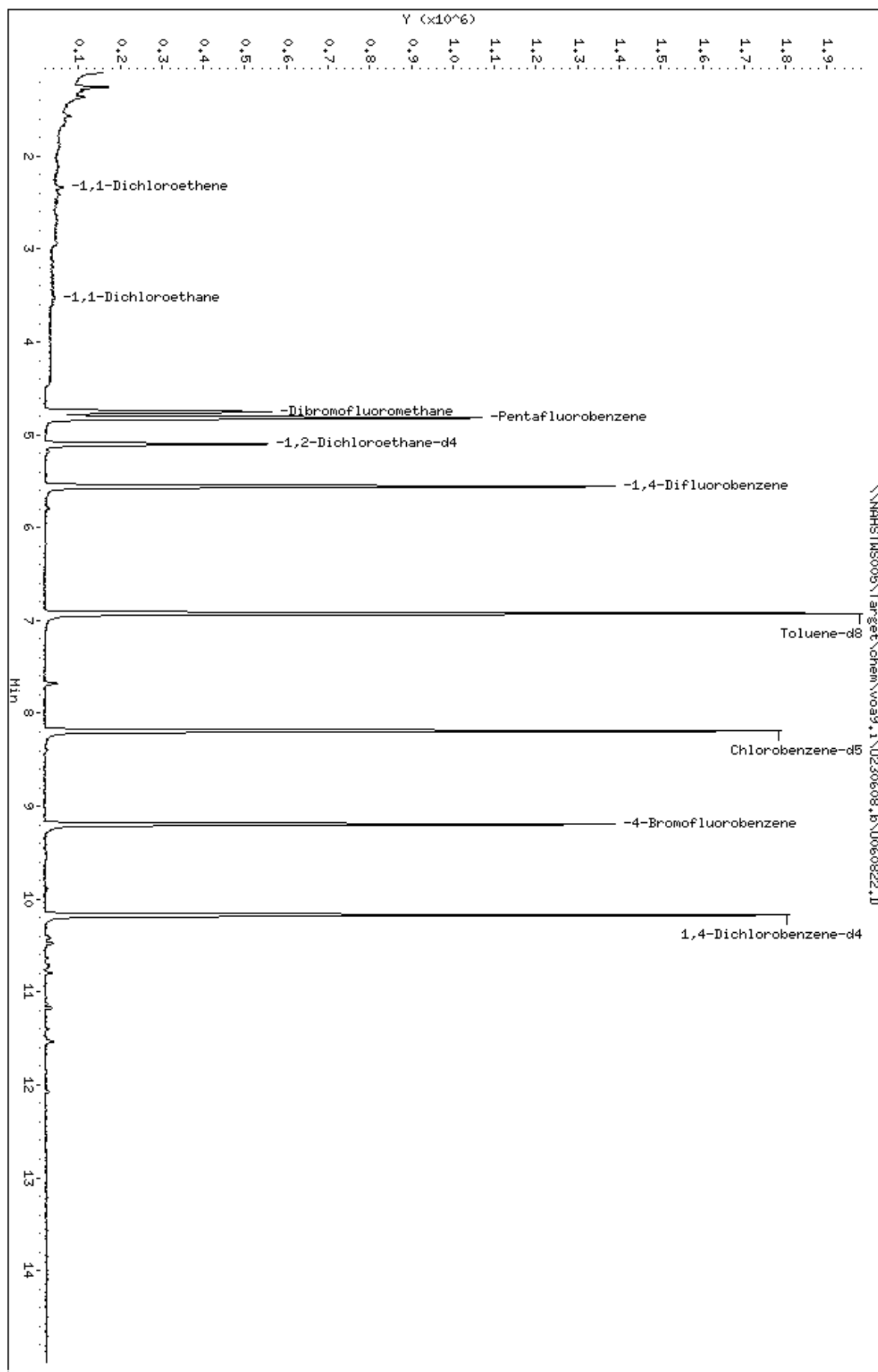
Purge Volume: 5.0

Column phase: DB624

Instrument: W049.i

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060822.D

Page 2

Date : 08-JUN-2023 18:32

Client ID: HS23060280-04

Instrument: VOA9.i

Sample Info: HS23060280-04;HS23060280-04;;;

Purge Volume: 5.0

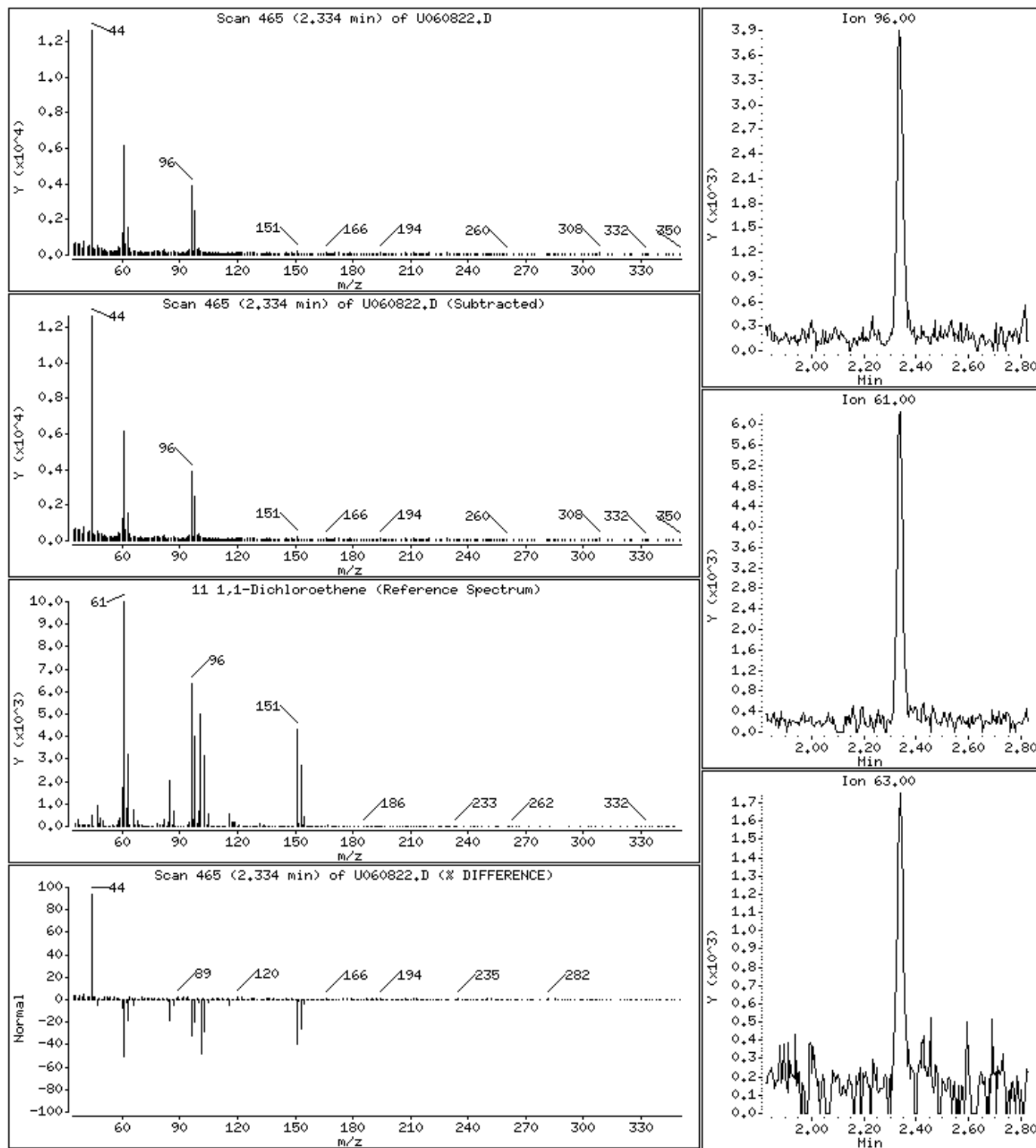
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 1.19 ug/l



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060822.D

Page 3

Date : 08-JUN-2023 18:32

Client ID: HS23060280-04

Instrument: VOA9.i

Sample Info: HS23060280-04;HS23060280-04;;;

Purge Volume: 5.0

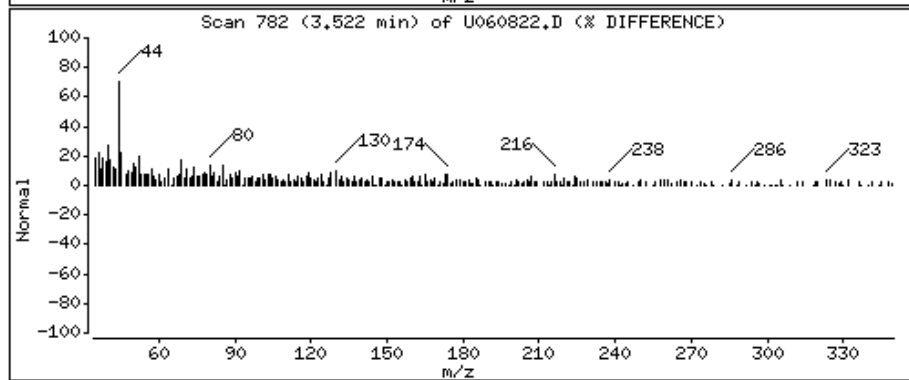
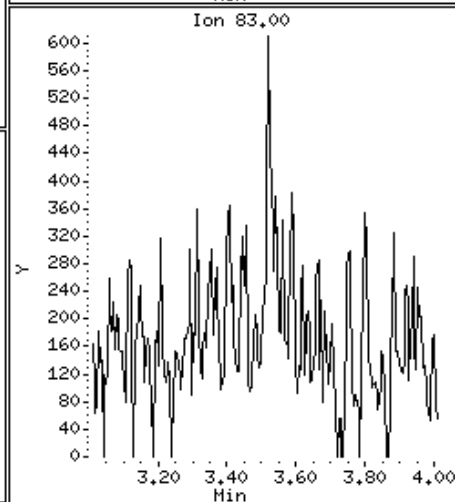
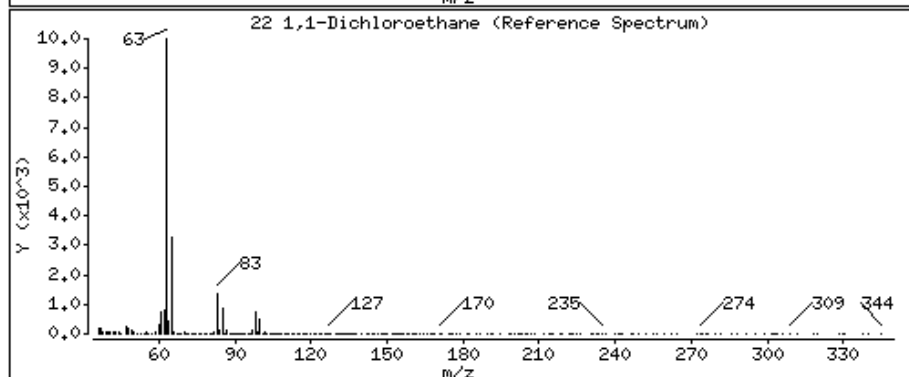
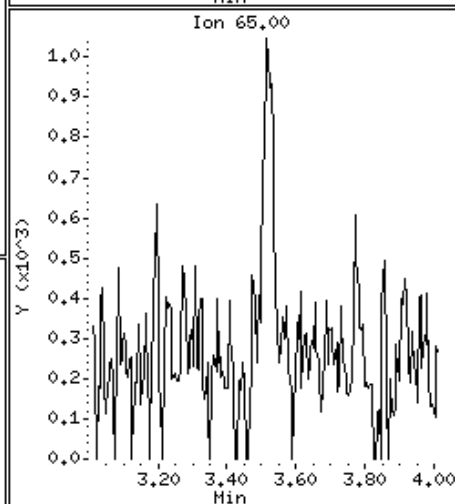
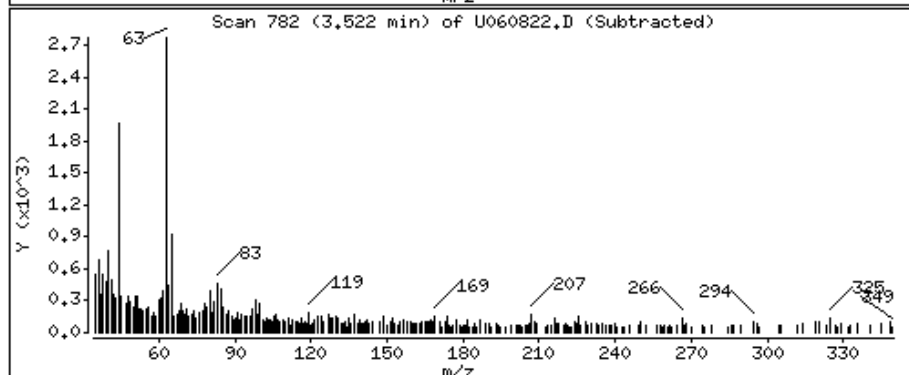
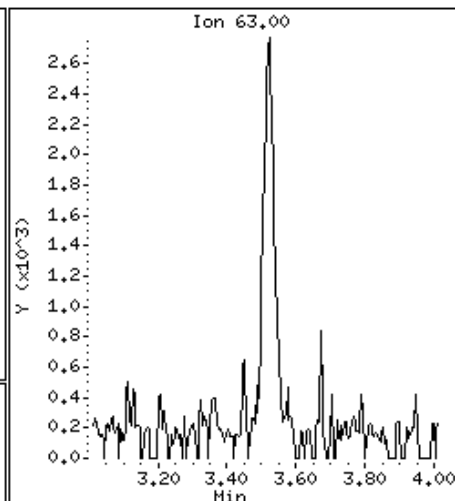
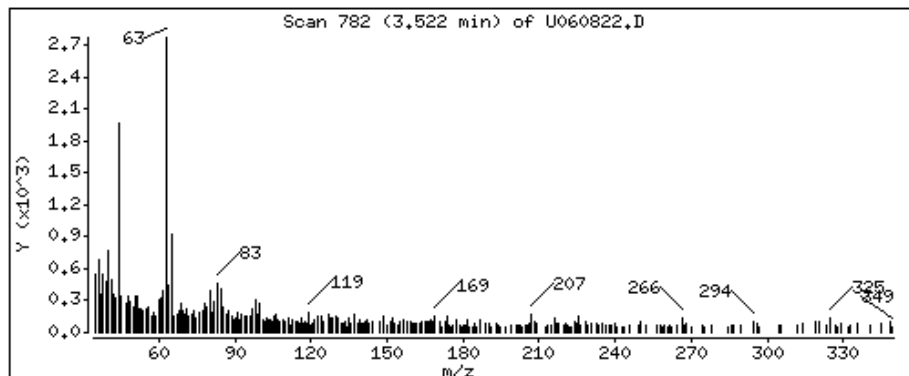
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 0.56 ug/l



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060822.D
Inj Date : 08-JUN-2023 18:32
InstruID : VOA9.i
LabSampID : HS23060280-04

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060823.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060823.D
 Lab Smp Id: HS23060280-05 Client Smp ID: HS23060280-05
 Inj Date : 08-JUN-2023 18:54
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-05;HS23060280-05;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	MASS						(ug/l)	(ug/l)	
=====	=====		=====	=====	=====	=====	=====	=====	
* 1 Pentafluorobenzene	168		4.812	4.811 (1.000)		775885	50.0000		
\$ 30 Dibromofluoromethane	113		4.744	4.744 (0.986)		316541	48.5964	48.59	
\$ 35 1,2-Dichloroethane-d4	65		5.096	5.096 (1.059)		354130	50.2568	50.25	
* 36 1,4-Difluorobenzene	114		5.550	5.550 (1.000)		1068641	50.0000		
* 47 Chlorobenzene-d5	117		8.185	8.185 (1.000)		979303	50.0000		
\$ 48 Toluene-d8	98		6.922	6.922 (0.846)		1192563	53.8052	53.80	
50 Toluene	91		6.982	6.978 (0.853)		16908	0.63657	0.63(a)	
\$ 69 4-Bromofluorobenzene	95		9.194	9.194 (1.123)		414911	47.4663	47.46	
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172 (1.000)		484441	50.0000		
166 1,2,3-Trimethylbenzene	105		10.236	10.236 (1.006)		11122	0.59727	0.59(a)	

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060823.D

Date : 08-JUN-2023 18:54

Client ID: HS23060280-05

Sample Info: HS23060280-05;HS23060280-05;;

Purge Volume: 5.0

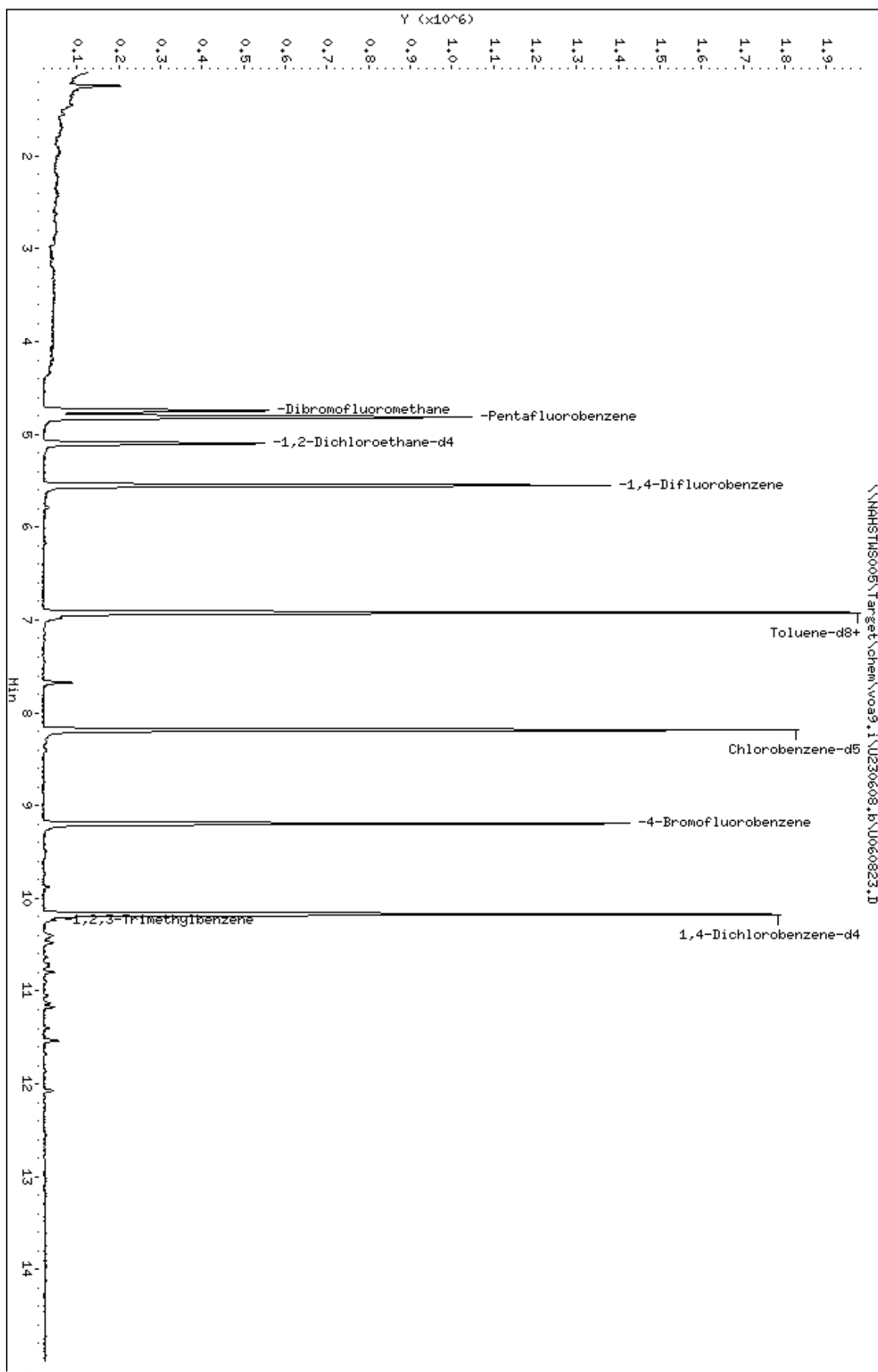
Column phase: DB624

Instrument: VOA9.i

Operator: PC

Column diameter: 0.18

Page 1



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060823.D

Page 2

Date : 08-JUN-2023 18:54

Client ID: HS23060280-05

Instrument: VOA9.i

Sample Info: HS23060280-05;HS23060280-05;;

Purge Volume: 5.0

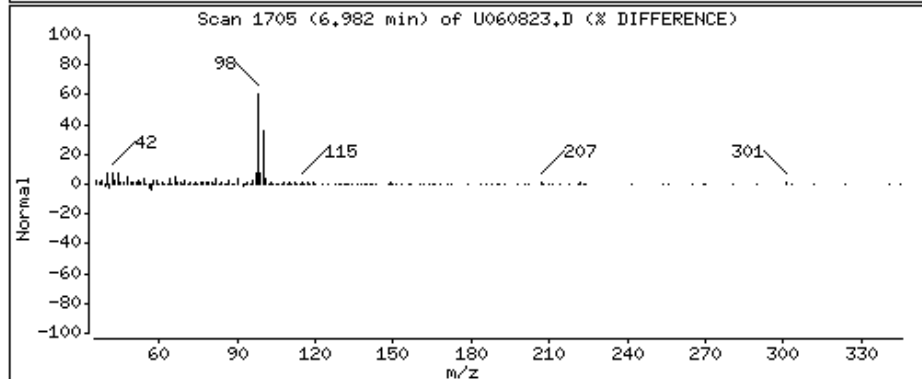
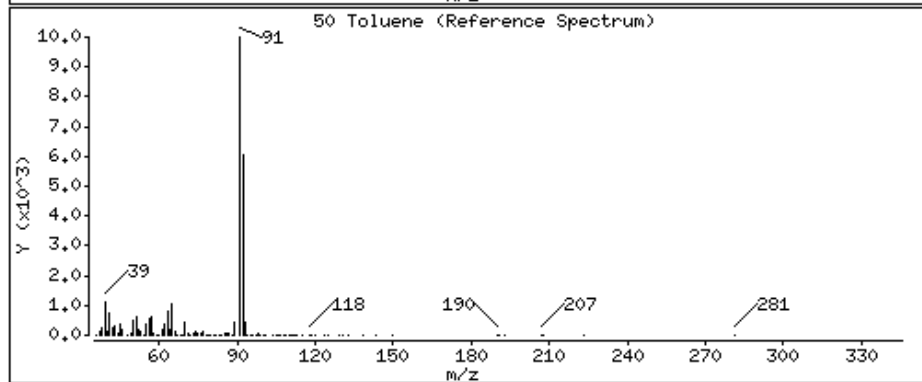
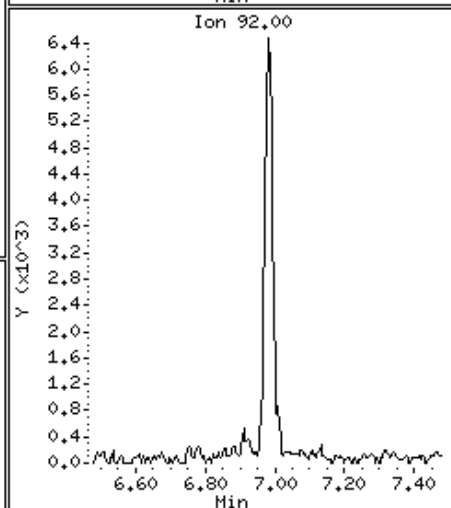
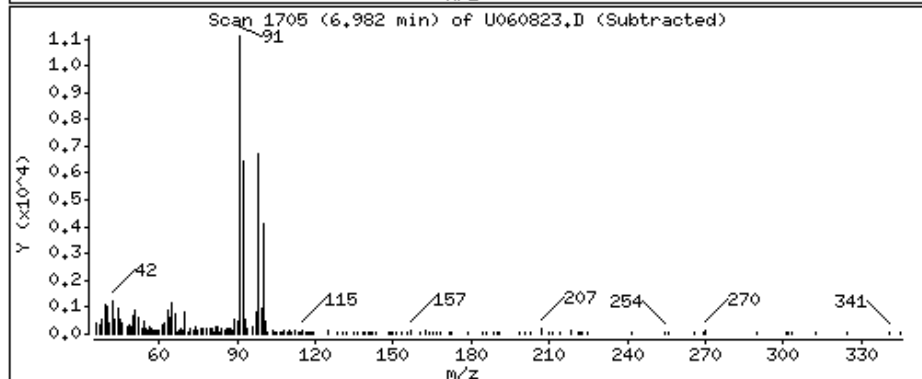
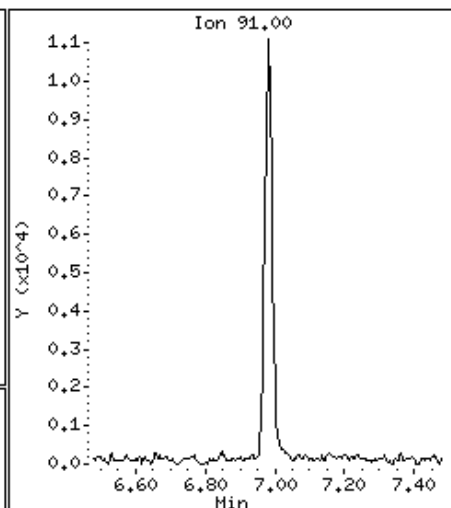
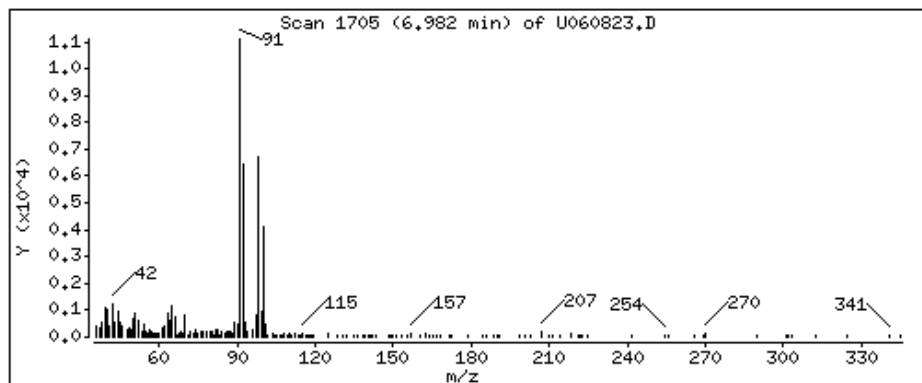
Operator: PC

Column phase: DB624

Column diameter: 0.18

50 Toluene

Concentration: 0.63 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060823.D

Page 3

Date : 08-JUN-2023 18:54

Client ID: HS23060280-05

Instrument: VOA9.i

Sample Info: HS23060280-05;HS23060280-05;;

Purge Volume: 5.0

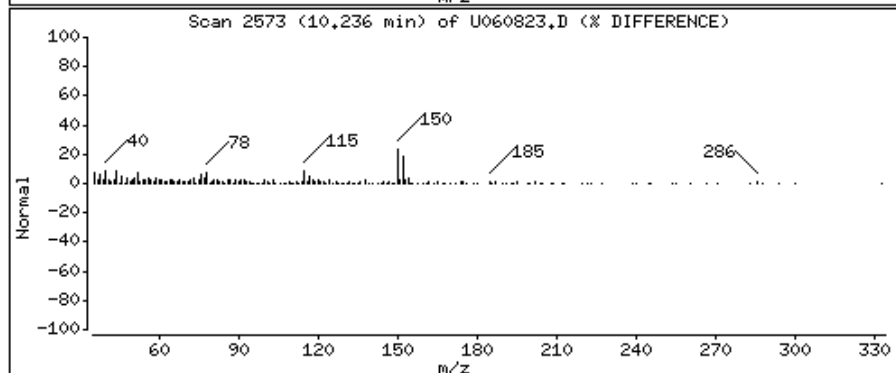
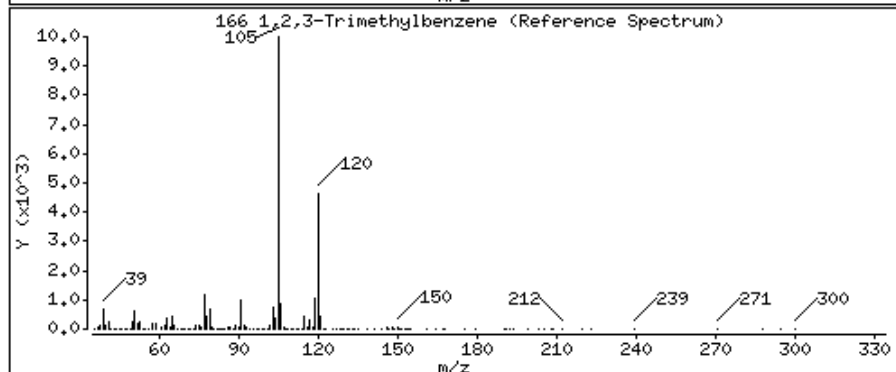
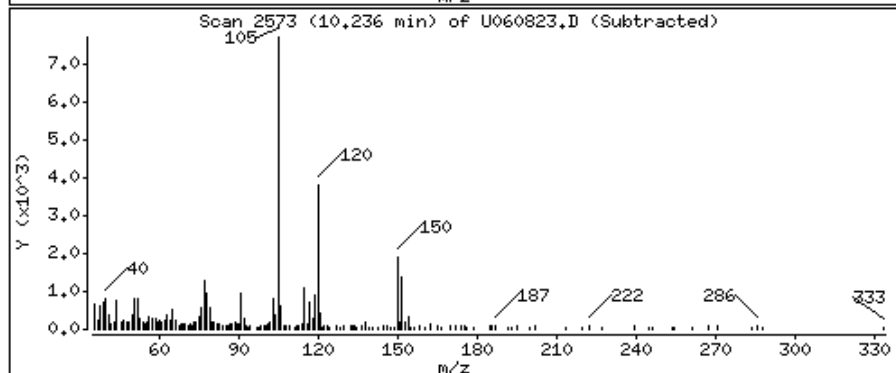
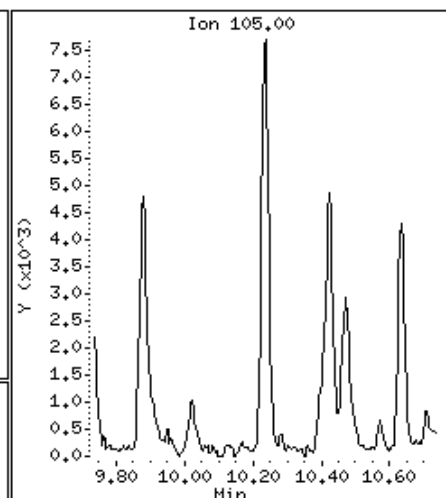
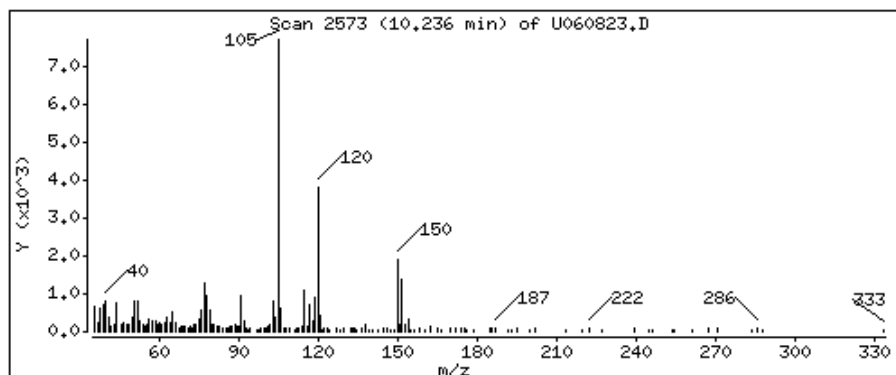
Operator: PC

Column phase: DB624

Column diameter: 0.18

166 1,2,3-Trimethylbenzene

Concentration: 0.59 ug/l



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060823.D
Inj Date : 08-JUN-2023 18:54
InstruID : VOA9.i
LabSampID : HS23060280-05

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060824.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060824.D
 Lab Smp Id: HS23060280-06 Client Smp ID: HS23060280-06
 Inj Date : 08-JUN-2023 19:16
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-06;HS23060280-06;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.819	4.811	(1.000)		785158	50.0000	
5 Vinyl Chloride	62		1.381	1.370	(0.287)		5042	0.60711	0.60(a)
11 1,1-Dichloroethene	96		2.337	2.326	(0.485)		15503	2.60126	2.60(a)
22 1,1-Dichloroethane	63		3.514	3.511	(0.729)		9165	0.74407	0.74(a)
\$ 30 Dibromofluoromethane	113		4.752	4.744	(0.986)		302147	45.8208	45.82
\$ 35 1,2-Dichloroethane-d4	65		5.100	5.096	(1.058)		356150	49.9423	49.94
* 36 1,4-Difluorobenzene	114		5.554	5.550	(1.000)		1081242	50.0000	
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		971866	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		1208702	54.9507	54.95
\$ 69 4-Bromofluorobenzene	95		9.194	9.194	(1.123)		409375	47.1861	47.18
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		482387	50.0000	

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.1\U230608.b\U060824.D

Date : 08-JUN-2023 19:16

Client ID: HS23060280-06

Sample Info: HS23060280-06;HS23060280-06;;

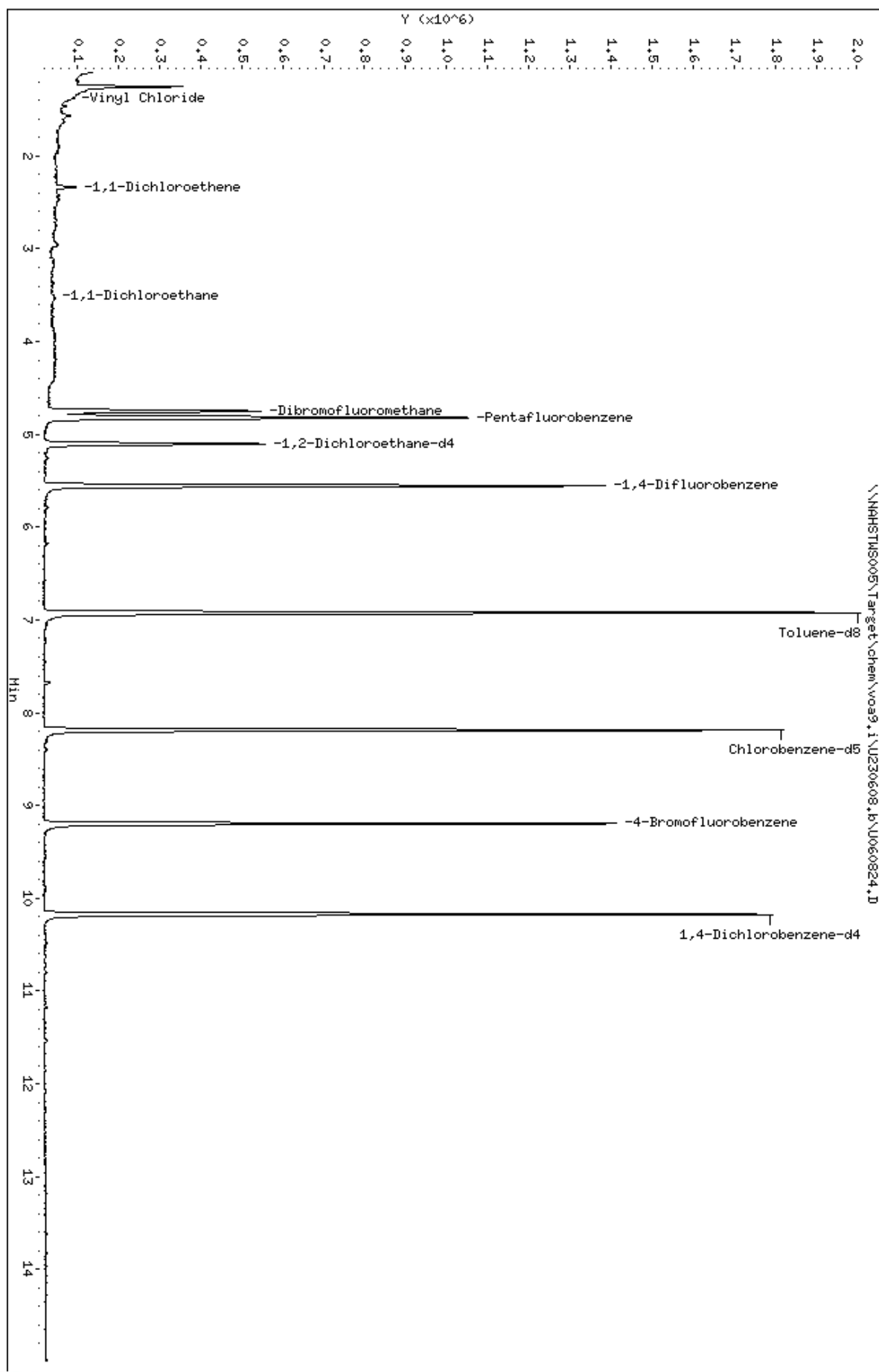
Purge Volume: 5.0

Column phase: DB624

Instrument: VOA9.1

Operator: PC

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230608.b\U060824.D

Page 2

Date : 08-JUN-2023 19:16

Client ID: HS23060280-06

Instrument: VOA9.i

Sample Info: HS23060280-06;HS23060280-06;;

Purge Volume: 5.0

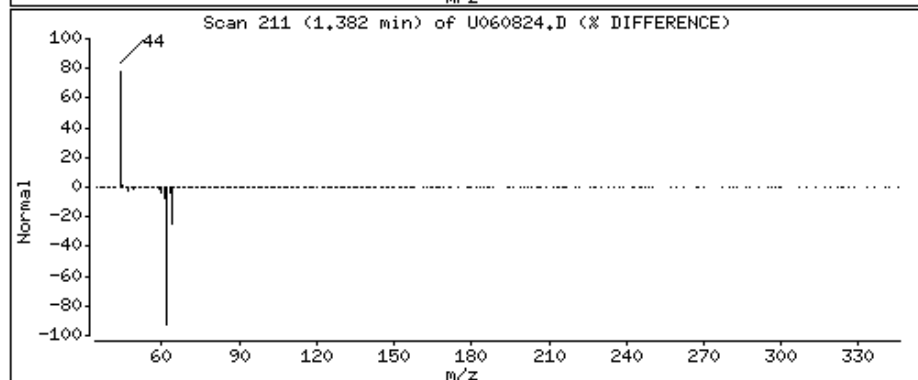
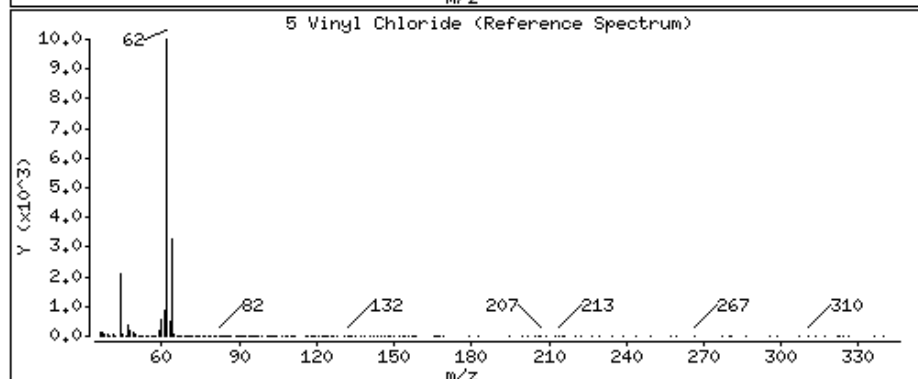
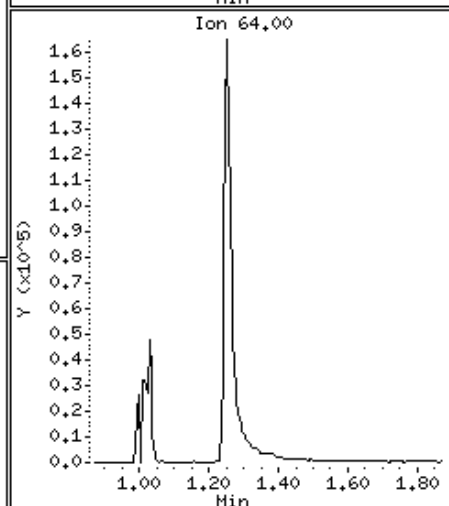
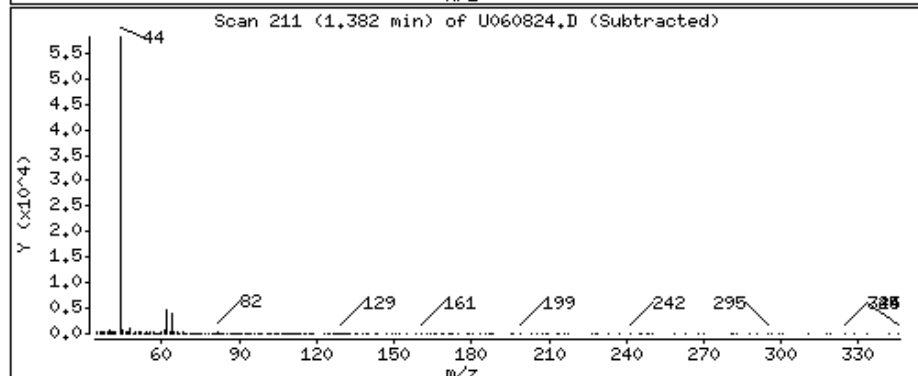
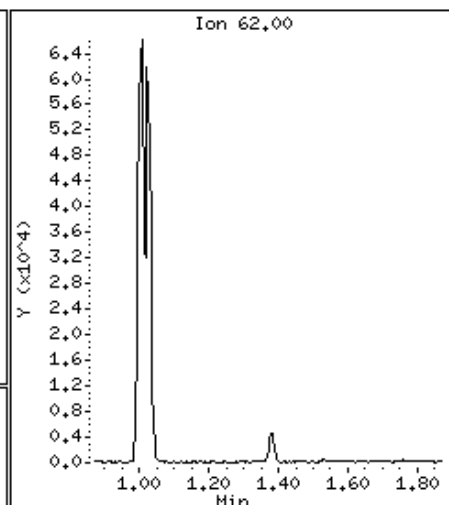
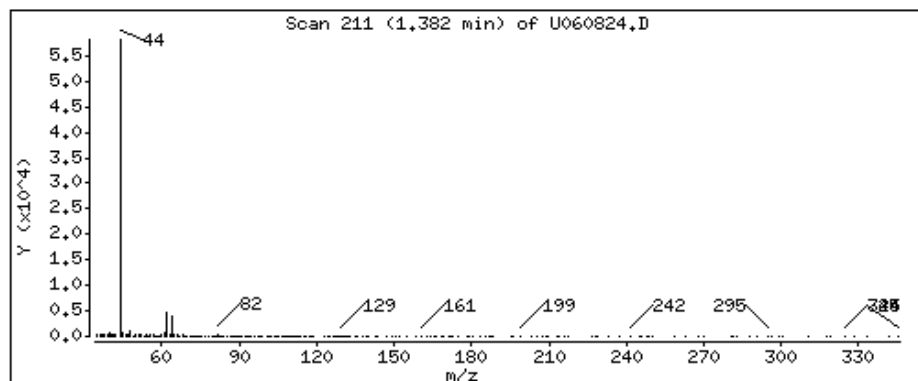
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 0.60 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060824.D

Date : 08-JUN-2023 19:16

Client ID: HS23060280-06

Instrument: VOA9.i

Sample Info: HS23060280-06;HS23060280-06;;;

Purge Volume: 5.0

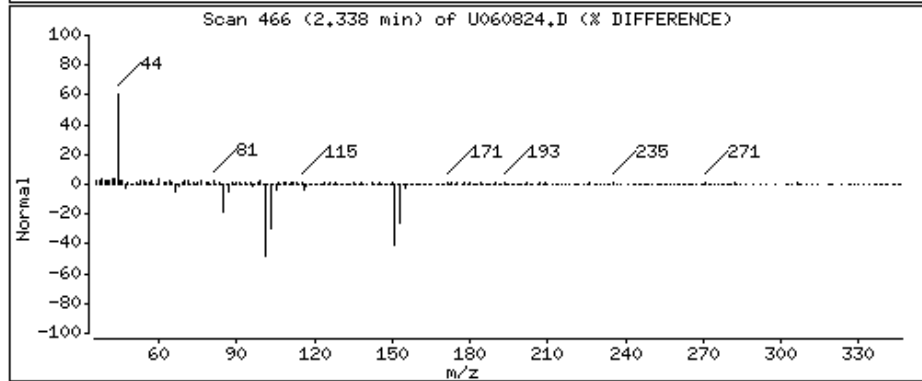
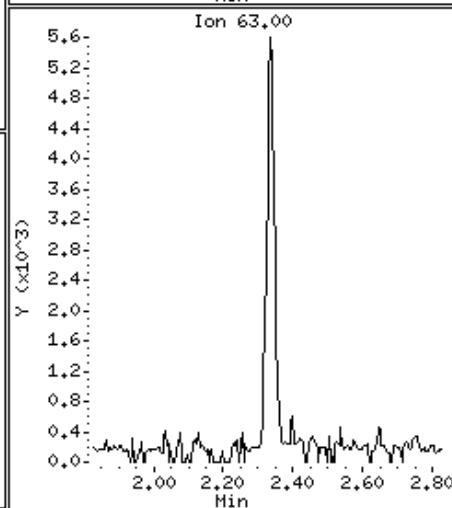
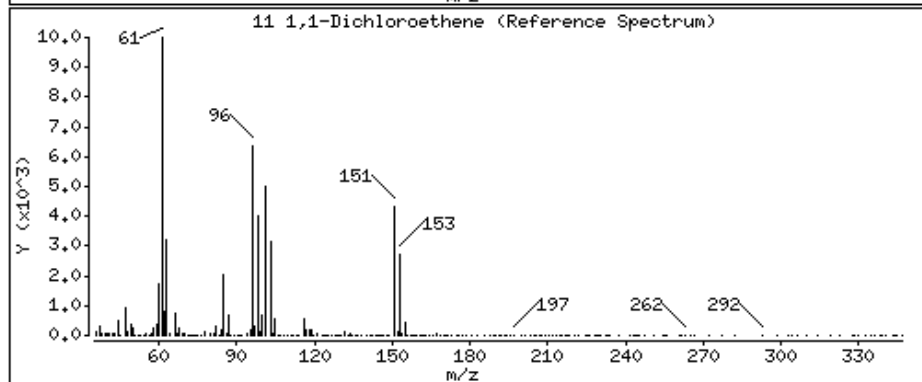
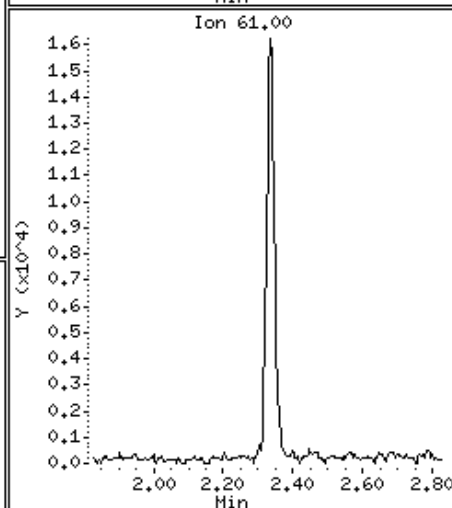
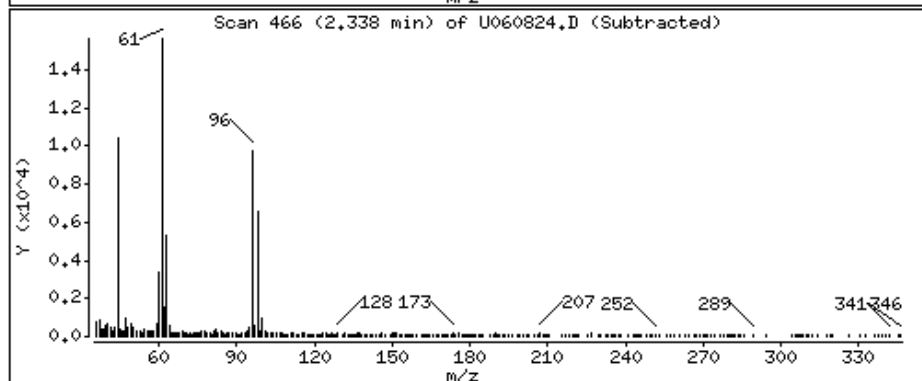
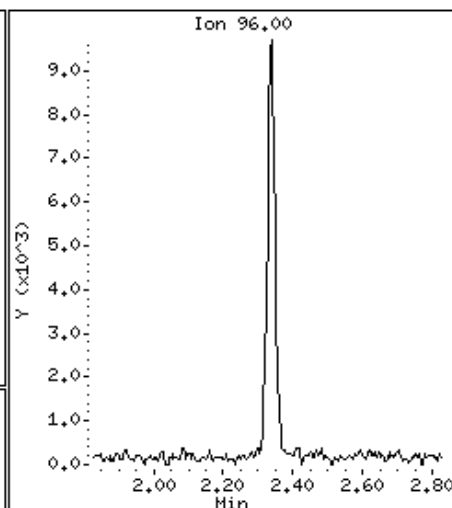
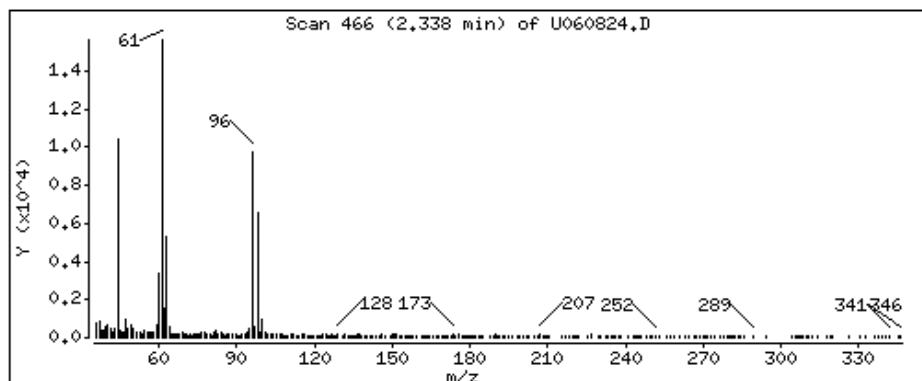
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 2.60 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060824.D

Page 4

Date : 08-JUN-2023 19:16

Client ID: HS23060280-06

Instrument: VOA9.i

Sample Info: HS23060280-06;HS23060280-06;;;

Purge Volume: 5.0

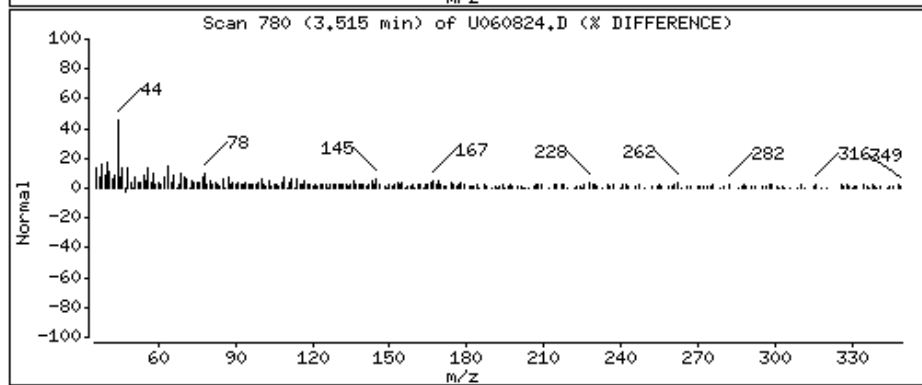
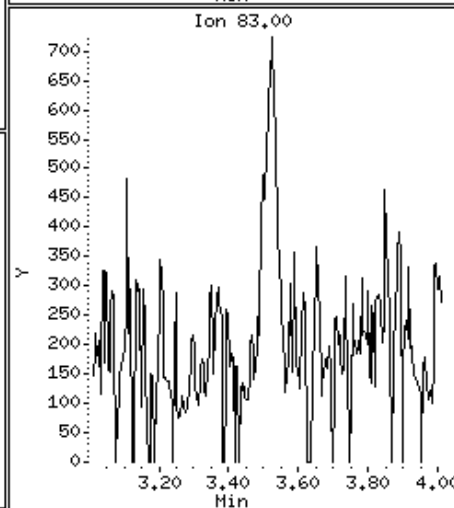
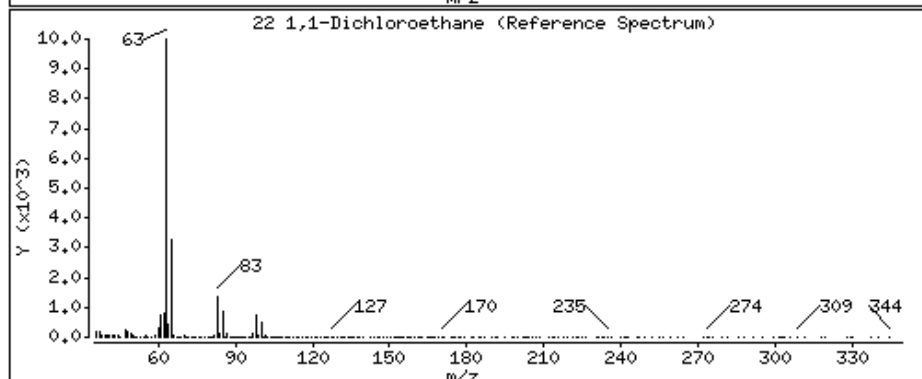
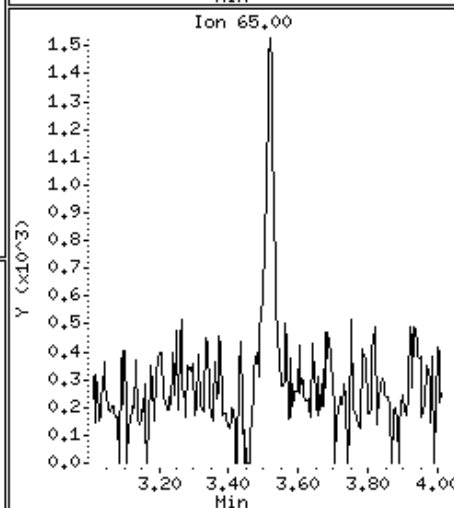
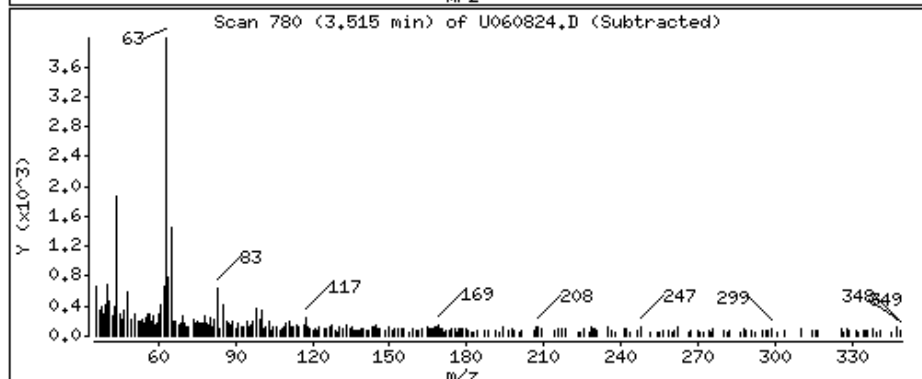
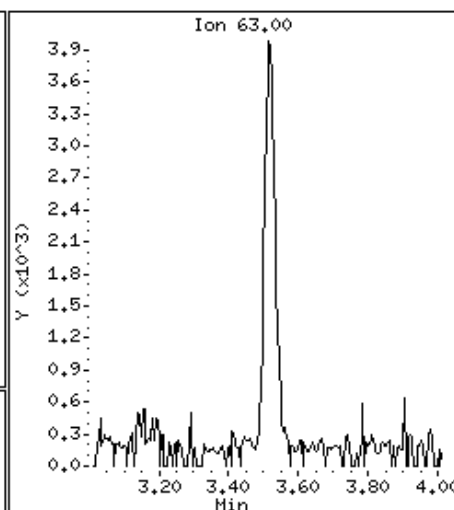
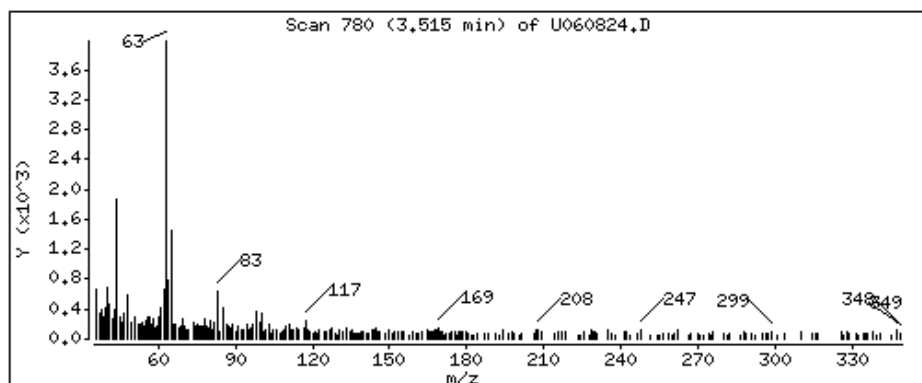
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 0.74 ug/l



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060824.D
Inj Date : 08-JUN-2023 19:16
InstruID : VOA9.i
LabSampID : HS23060280-06

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060825.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060825.D
 Lab Smp Id: HS23060280-07 Client Smp ID: HS23060280-07
 Inj Date : 08-JUN-2023 19:39
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-07;HS23060280-07;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.811	(1.000)	773974	50.0000	
\$ 30 Dibromofluoromethane	113	4.747	4.744	(0.986)	315445	48.5474	48.54
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.059)	360797	51.3439	51.34
* 36 1,4-Difluorobenzene	114	5.553	5.550	(1.000)	1068176	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	947878	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1189986	55.4689	55.46
\$ 69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	392439	46.3632	46.36
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	460410	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060825.D

Date : 08-JUN-2023 19:39

Client ID: HS23060280-07

Sample Info: HS23060280-07;HS23060280-07;;

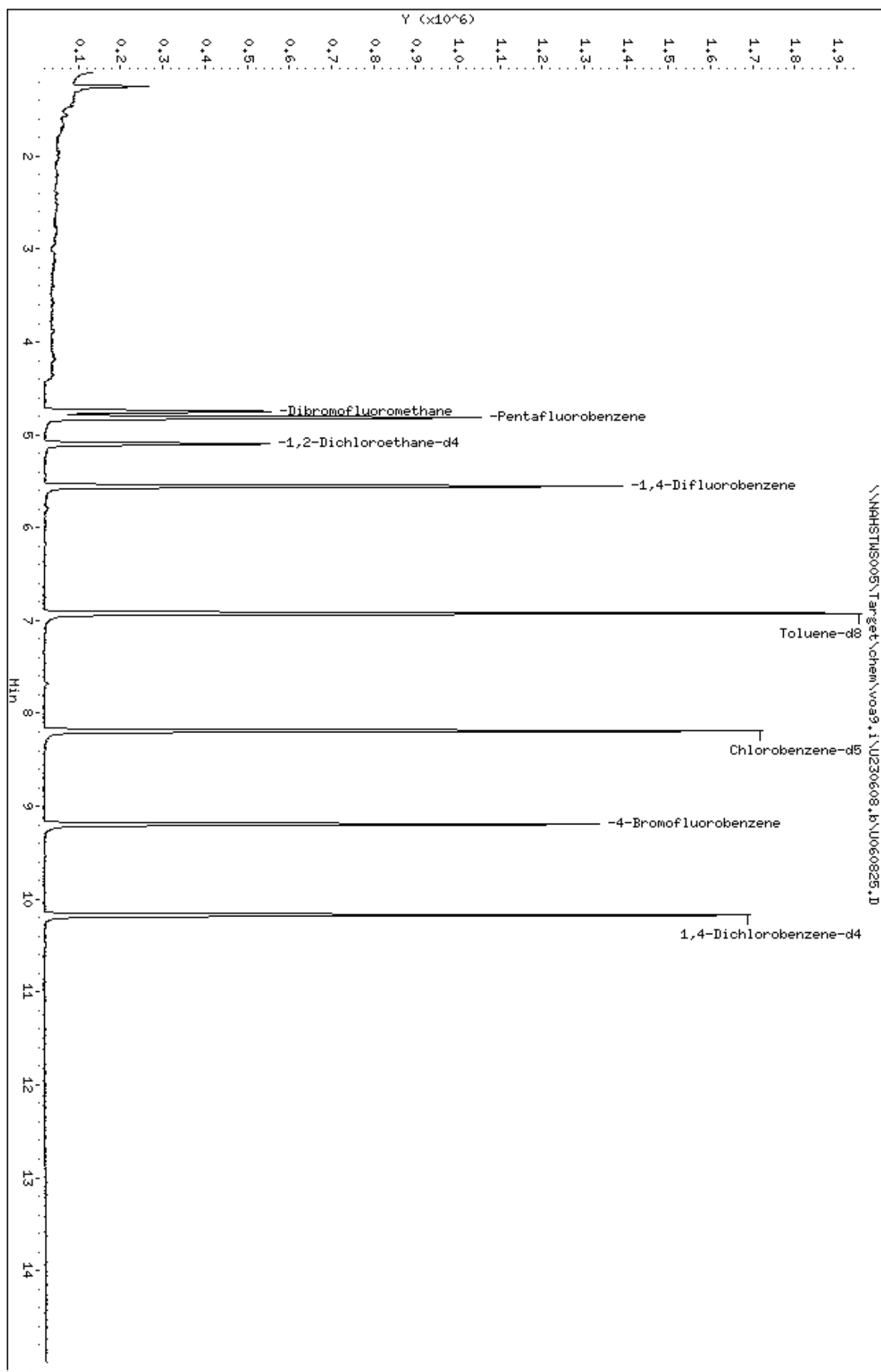
Purge Volume: 5.0

Column phase: DB624

Instrument: W049.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060825.D
Inj Date : 08-JUN-2023 19:39
InstruID : VOA9.i
LabSampID : HS23060280-07

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060826.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060826.D
 Lab Smp Id: HS23060280-08 Client Smp ID: HS23060280-08
 Inj Date : 08-JUN-2023 20:01
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-08;HS23060280-08;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.811	(1.000)	793181	50.0000	
\$ 30 Dibromofluoromethane	113	4.752	4.744	(0.987)	321981	48.3521	48.35
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.059)	364439	50.5966	50.59
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	1101035	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	997198	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1224391	54.2499	54.24
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	414413	46.5412	46.54
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	485259	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060826.D

Date : 08-JUN-2023 20:01

Client ID: HS23060280-08

Sample Info: HS23060280-08;HS23060280-08;;

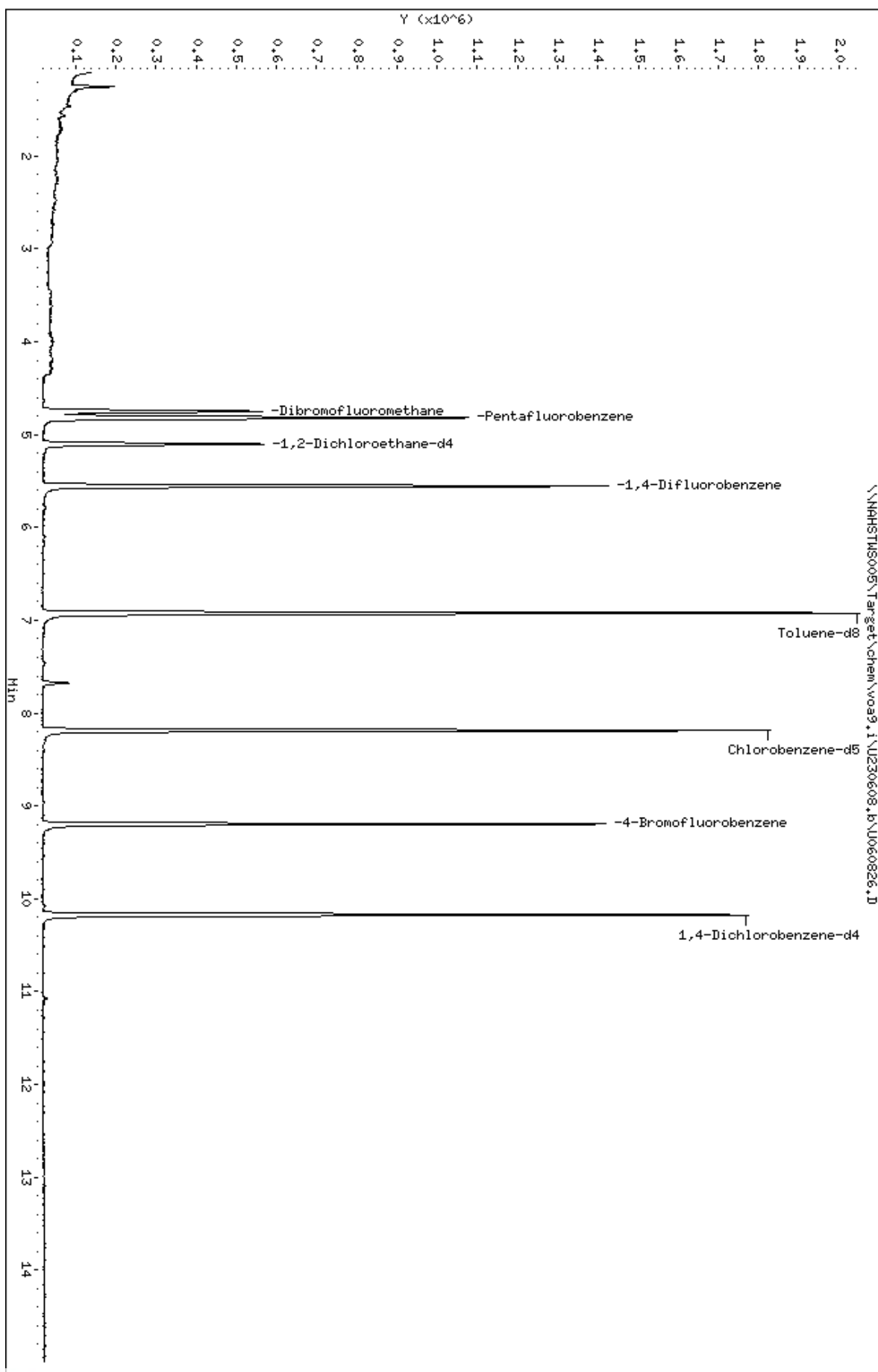
Purge Volume: 5.0

Column phase: DB624

Instrument: W093.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060826.D
Inj Date : 08-JUN-2023 20:01
InstruID : VOA9.i
LabSampID : HS23060280-08

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D
 Lab Smp Id: HS23060280-02 Client Smp ID: HS23060280-02
 Inj Date : 08-JUN-2023 20:24
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-02;HS23060280-02;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 26
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.815	4.811	(1.000)		777735	50.0000	
5 Vinyl Chloride	62		1.374	1.370	(0.285)		8405600	1021.78	1021.77(A)
11 1,1-Dichloroethene	96		2.330	2.326	(0.484)		10851399	1838.14	1838.14(A)
20 trans-1,2-Dichloroethene	96		3.057	3.053	(0.635)		48333	7.52832	7.52
22 1,1-Dichloroethane	63		3.515	3.511	(0.730)		5686922	466.104	466.10(A)
27 cis-1,2-Dichloroethene	96		4.193	4.193	(0.871)		655747	85.3762	85.37
\$ 30 Dibromofluoromethane	113		4.748	4.744	(0.986)		317609	48.6447	48.64
33 1,2-Dichloroethane	62		5.175	5.175	(0.932)		121532	13.0953	13.09
\$ 35 1,2-Dichloroethane-d4	65		5.096	5.096	(1.058)		356800	50.5188	50.51
* 36 1,4-Difluorobenzene	114		5.554	5.550	(1.000)		1072254	50.0000	
37 Benzene	78		5.138	5.138	(0.925)		188551	7.29754	7.29
38 Trichloroethene	130		5.790	5.786	(1.043)		1347832	179.979	179.97
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		991109	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		1202421	53.6038	53.60
53 1,1,2-Trichloroethane	83		7.357	7.357	(0.899)		318823	57.0018	57.00
\$ 69 4-Bromofluorobenzene	95		9.194	9.194	(1.123)		422519	47.7665	47.76
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		479414	50.0000	
83 1,3-Dichlorobenzene	146		10.116	10.116	(0.994)		16721	1.21707	1.21(a)
88 1,2-Dichlorobenzene	146		10.506	10.506	(1.033)		378178	27.4541	27.45
M 94 1,2-Dichloroethylene (total)	96						704080	92.9045	92.90



135 1,4-Dioxane	88	6.172	6.169 (1.282)	38945	252.187	252.18
141 Cyclohexane	56	4.782	4.778 (0.993)	86656	9.41174	9.41



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D Page 2
Report Date: 13-Jun-2023 14:21

Compounds	QUANT	SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====		=====	=====	=====	=====		=====	=====
136 n-Hexane	57		3.342	3.338	(0.694)	7224		1.24931	1.24(a)

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 1

Date : 08-JUN-2023 20:24

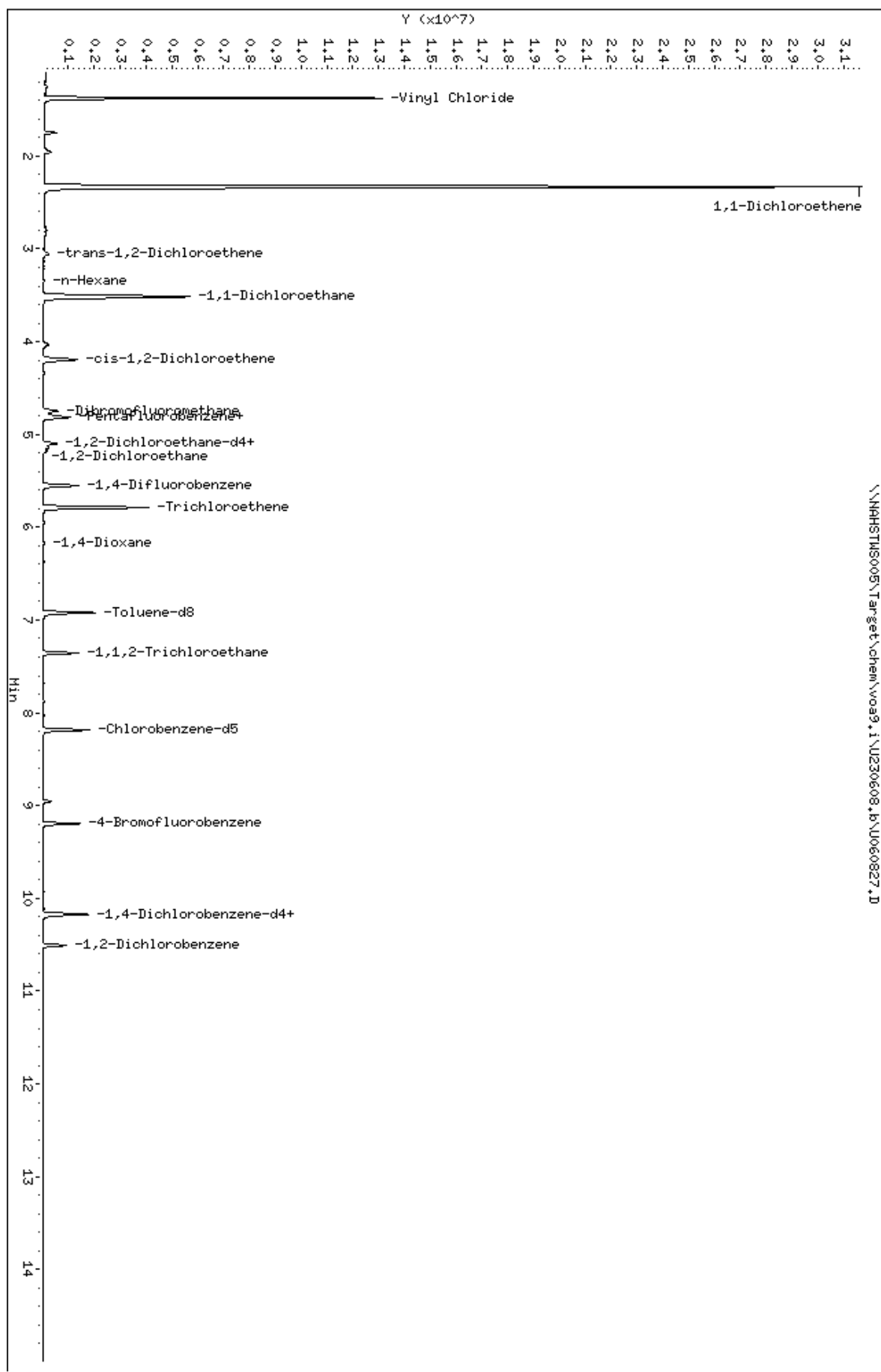
Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

Column phase: DB624

Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 2

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;;

Purge Volume: 5.0

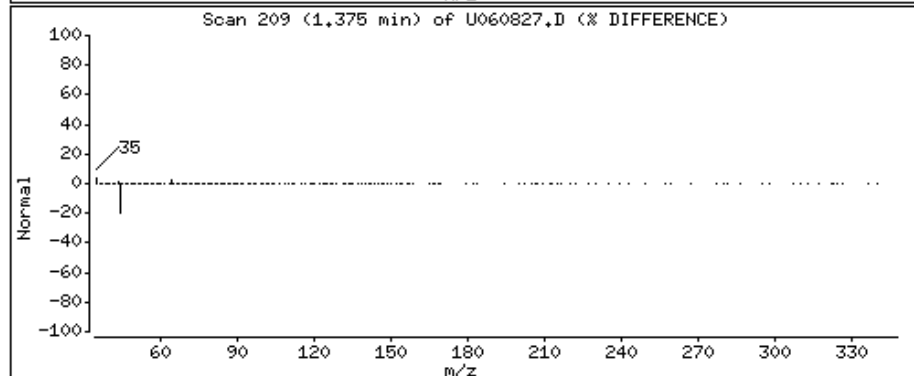
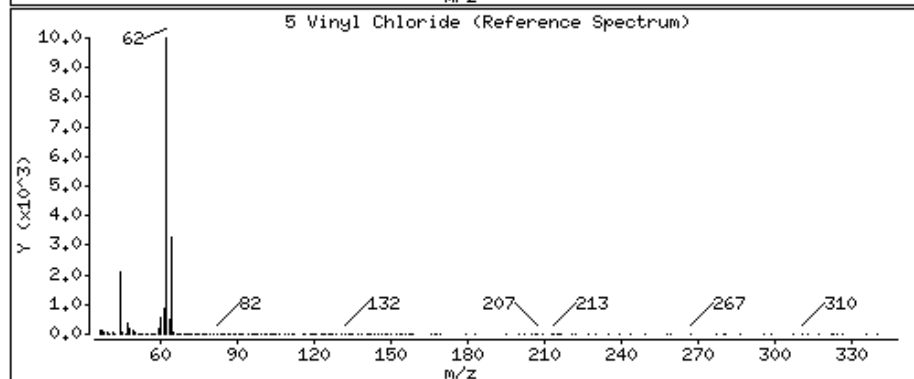
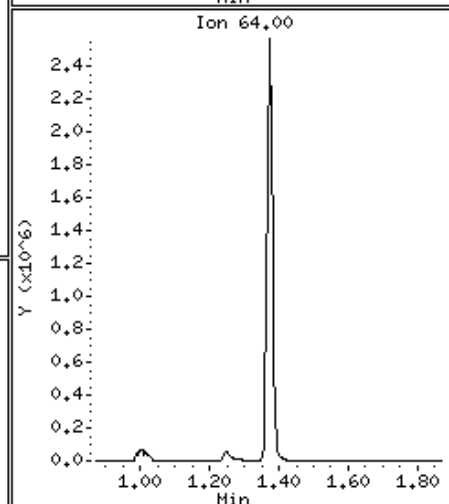
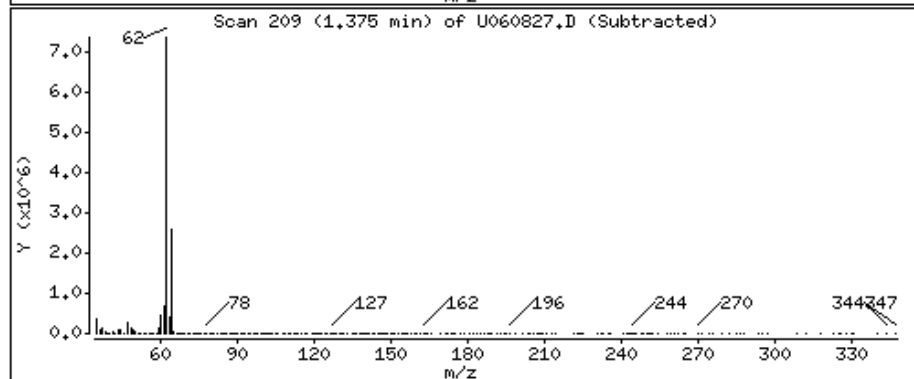
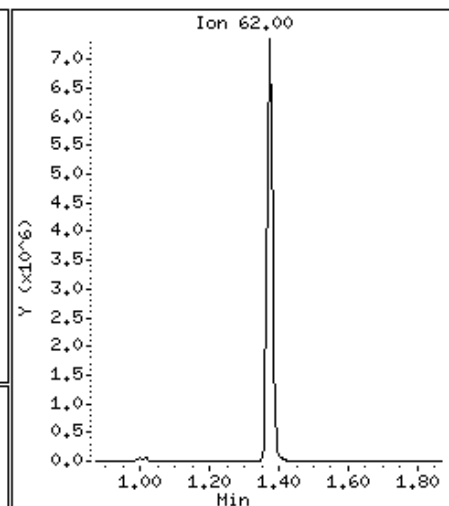
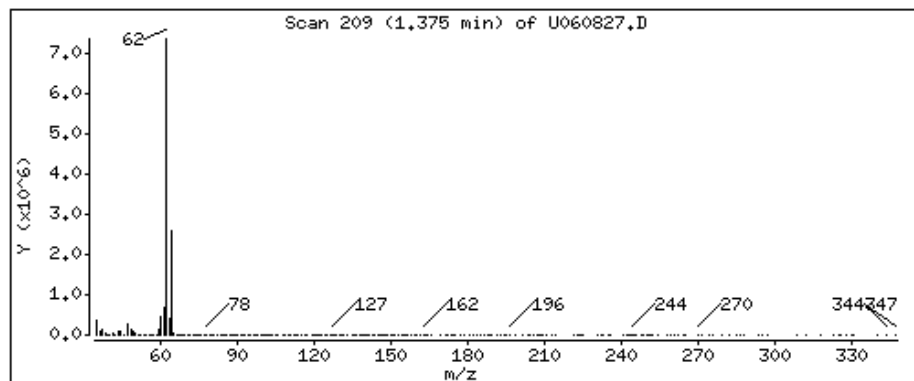
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 1021.77 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U0230608.b\U060827.D

Page 3

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

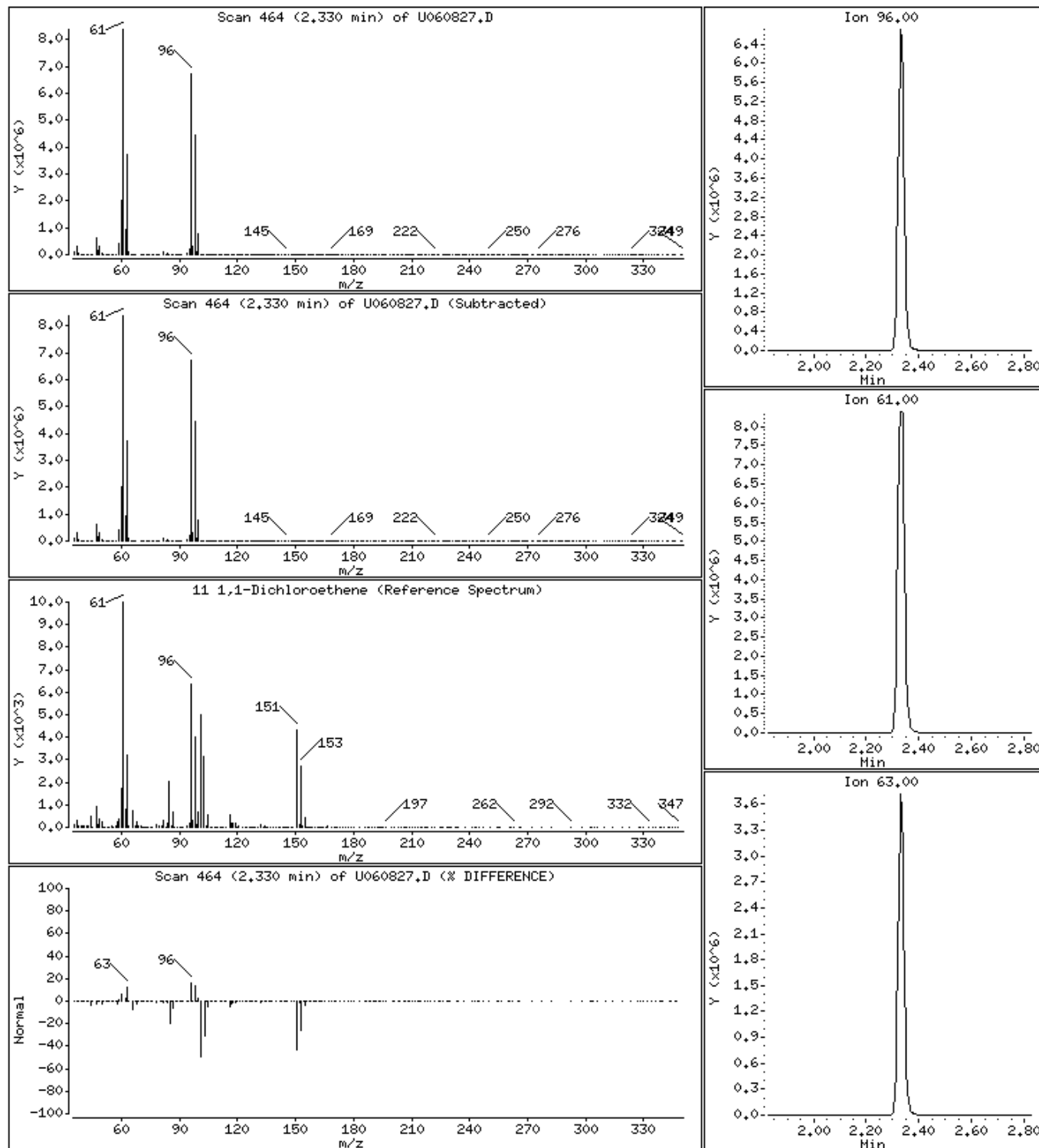
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 1838,14 ug/l



Data File: \\NAHSTHS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 4

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;;

Purge Volume: 5.0

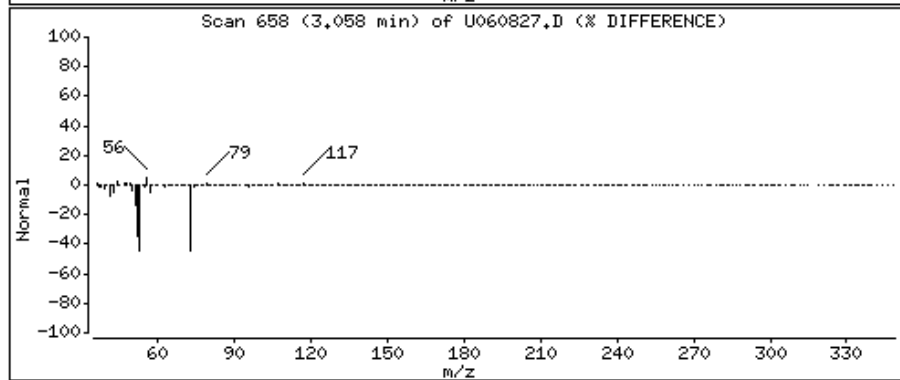
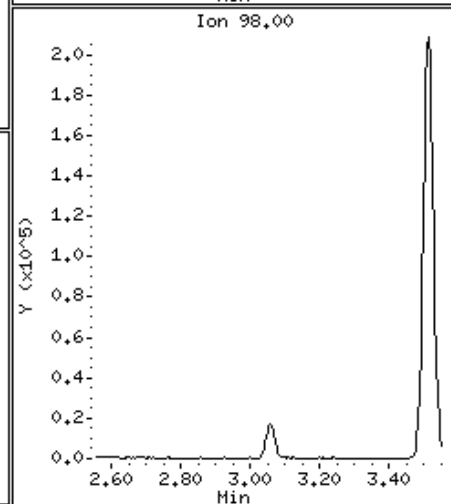
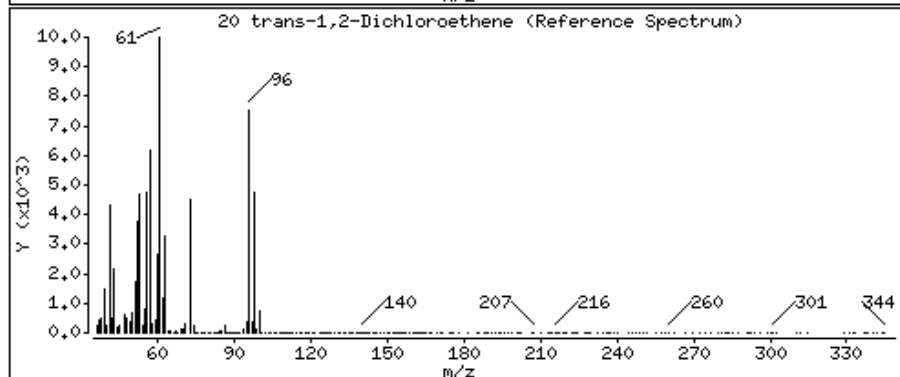
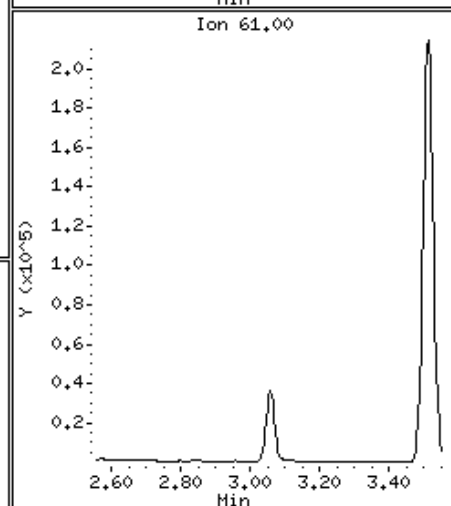
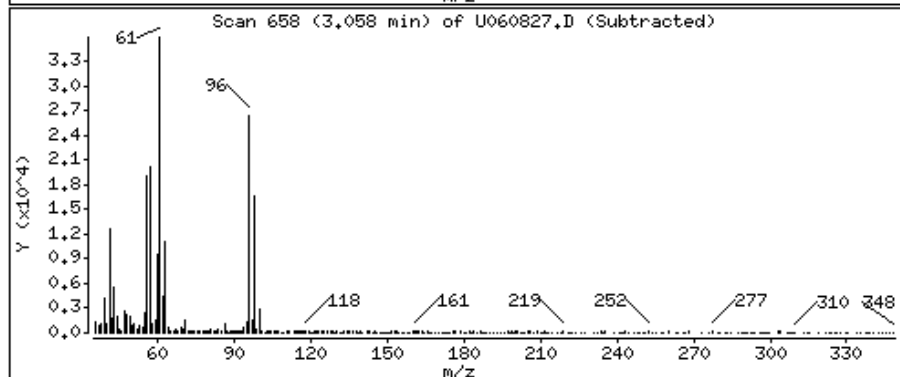
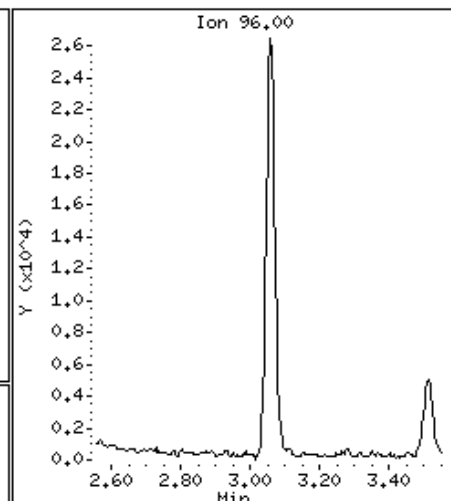
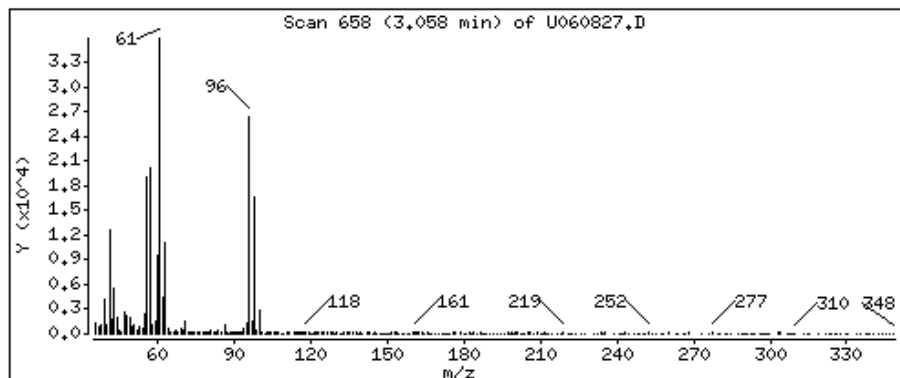
Operator: PC

Column phase: DB624

Column diameter: 0.18

20 trans-1,2-Dichloroethene

Concentration: 7.52 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230608,b\U060827.D

Page 5

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;;

Purge Volume: 5.0

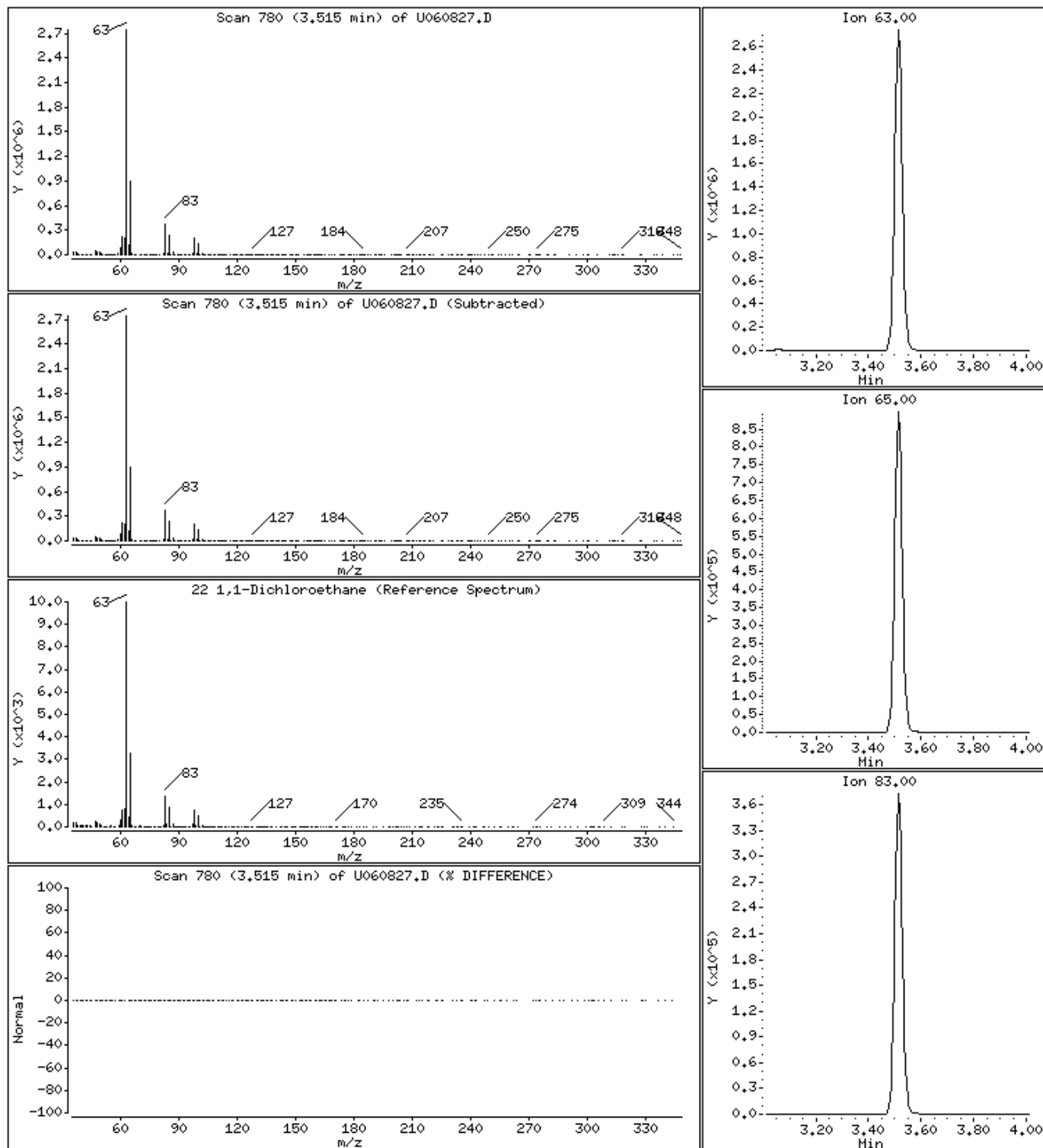
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 466.10 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 6

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

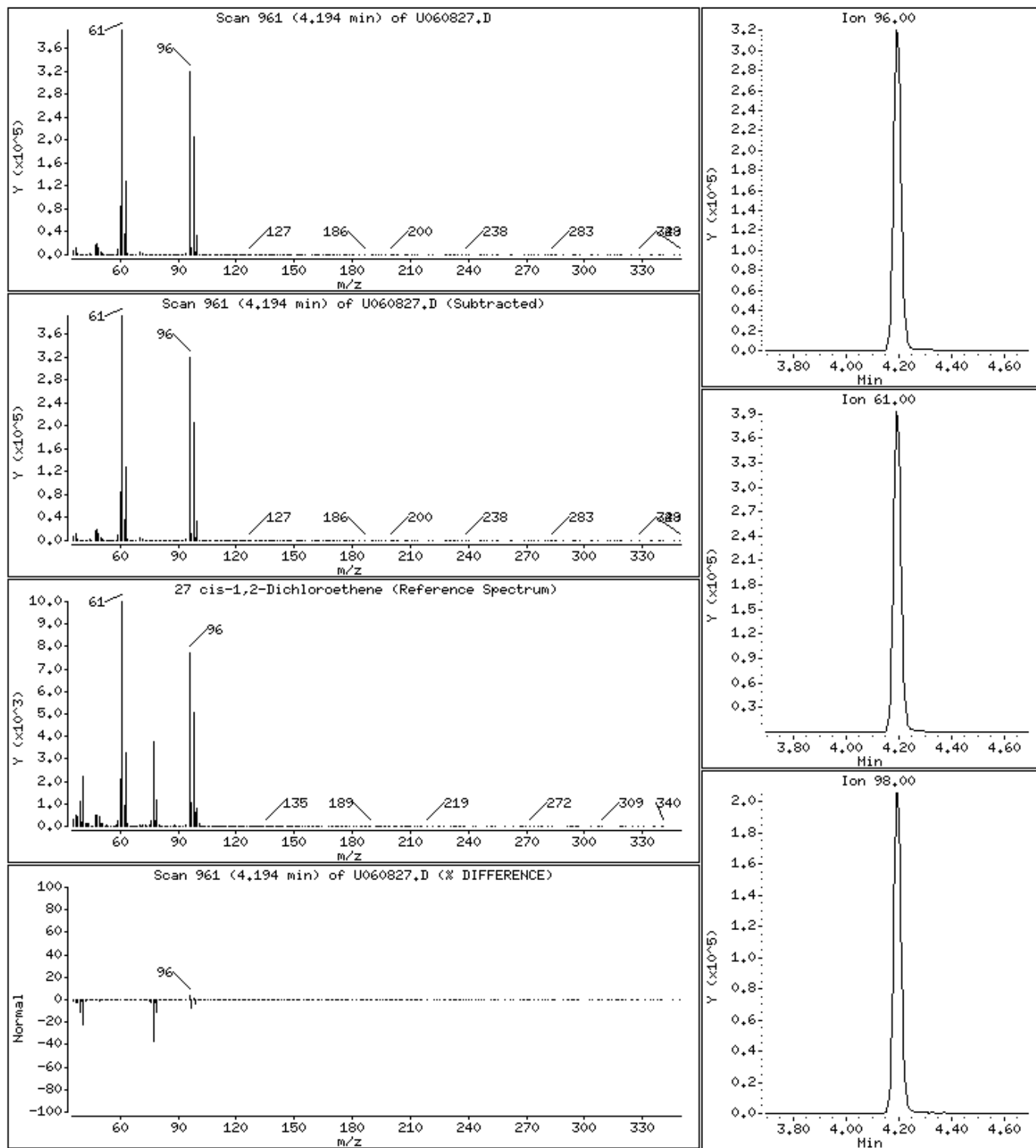
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 85.37 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 7

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

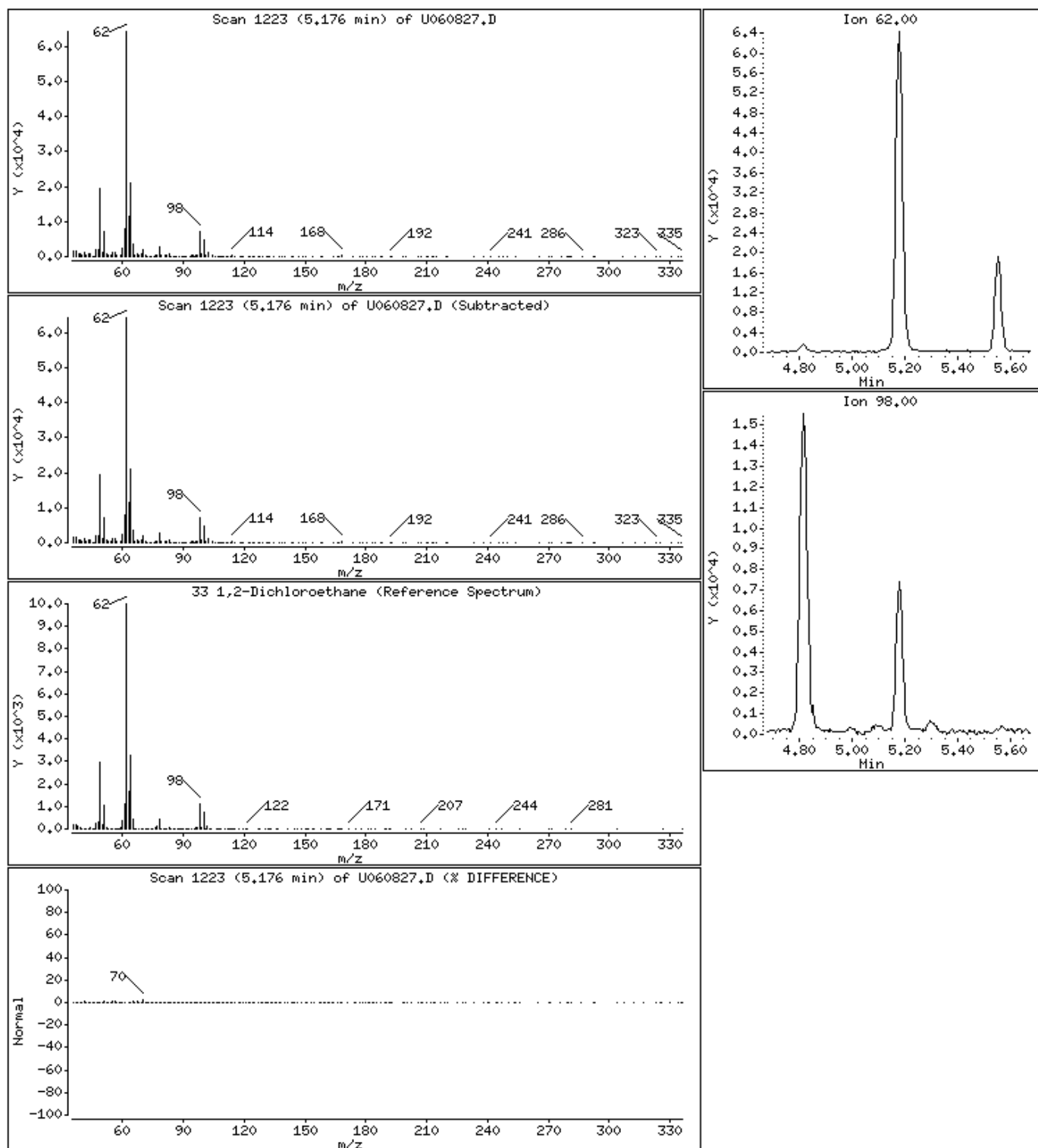
Operator: PC

Column phase: DB624

Column diameter: 0.18

33 1,2-Dichloroethane

Concentration: 13.09 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 8

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

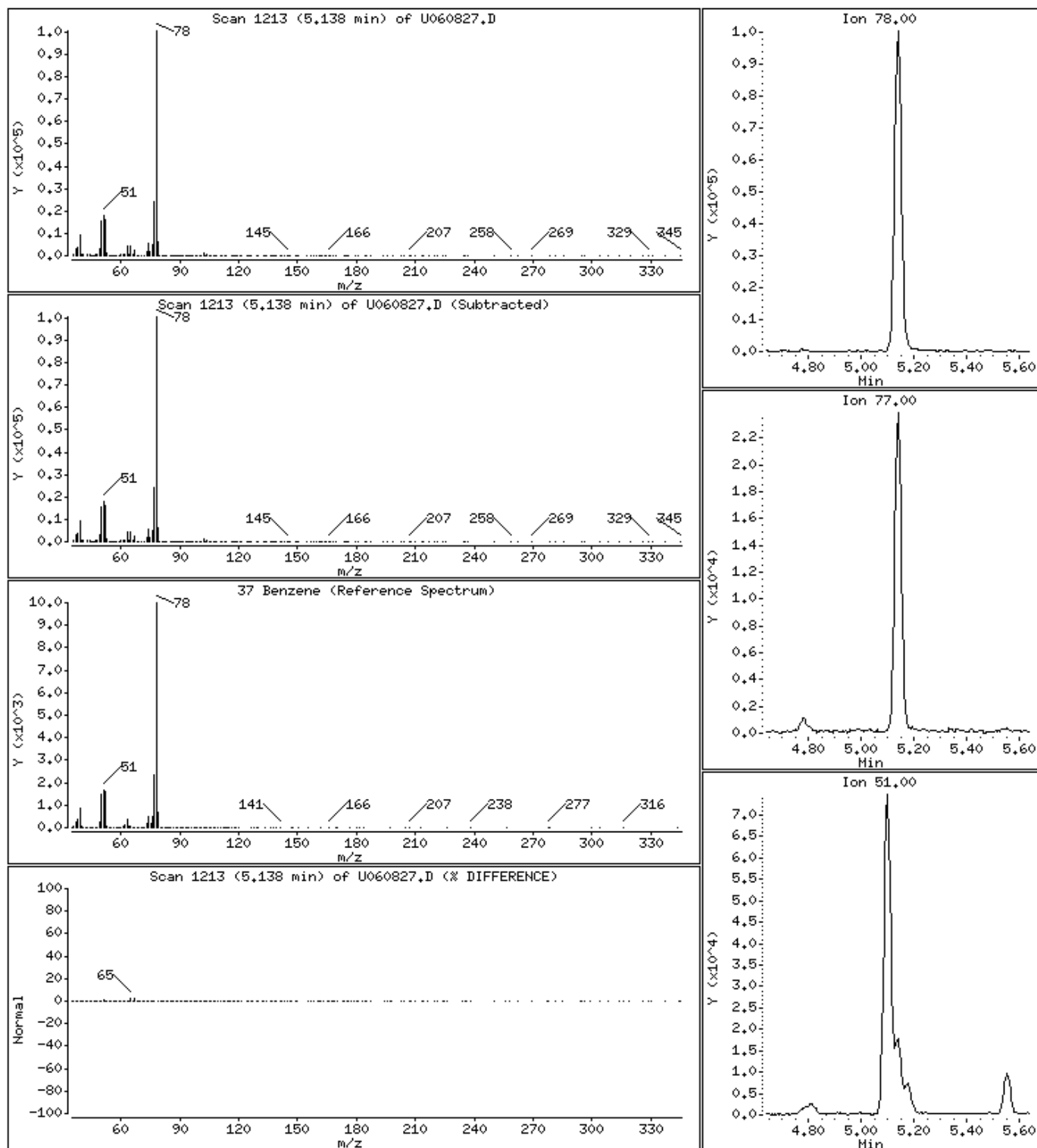
Operator: PC

Column phase: DB624

Column diameter: 0.18

37 Benzene

Concentration: 7.29 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 9

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

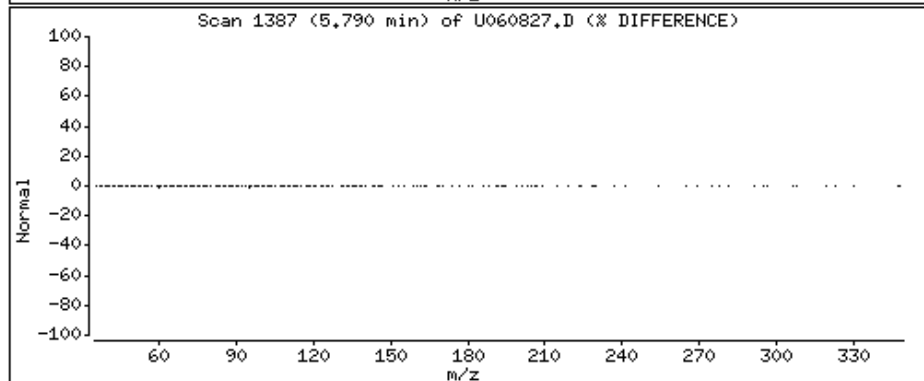
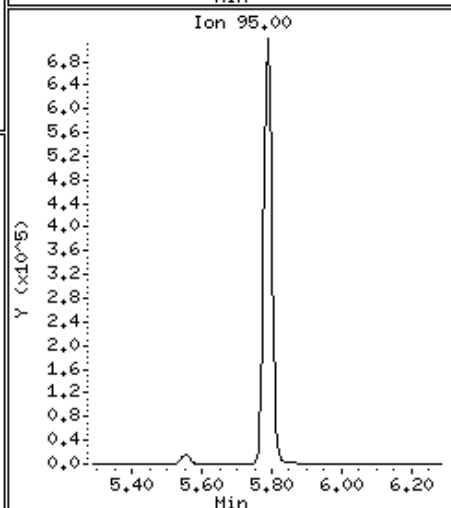
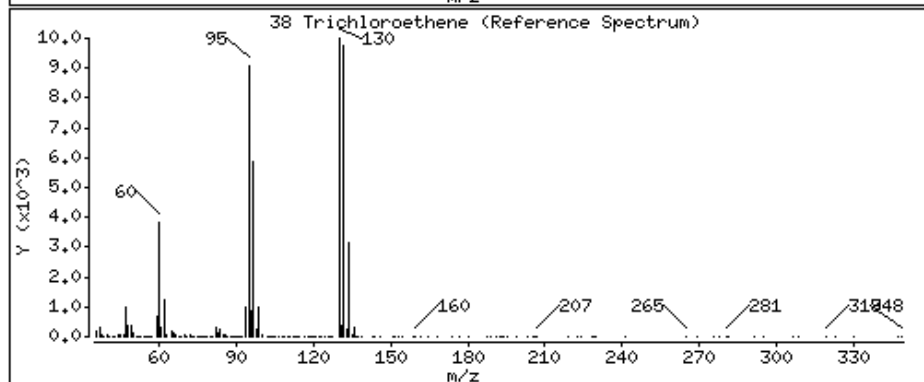
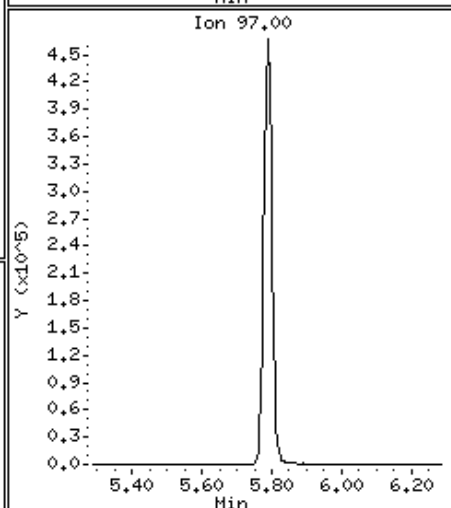
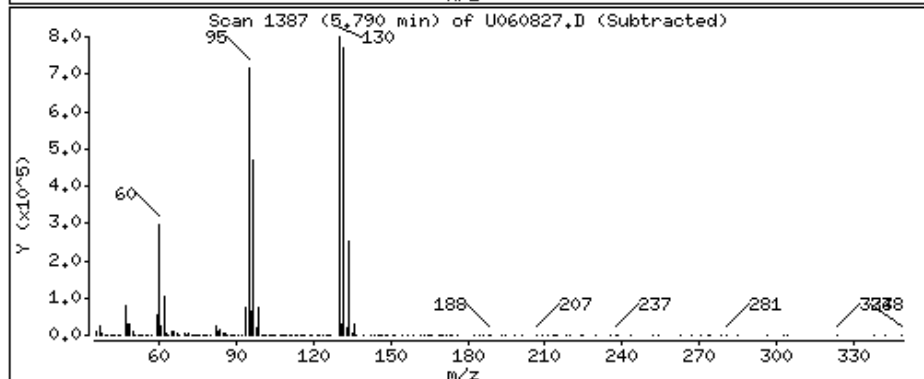
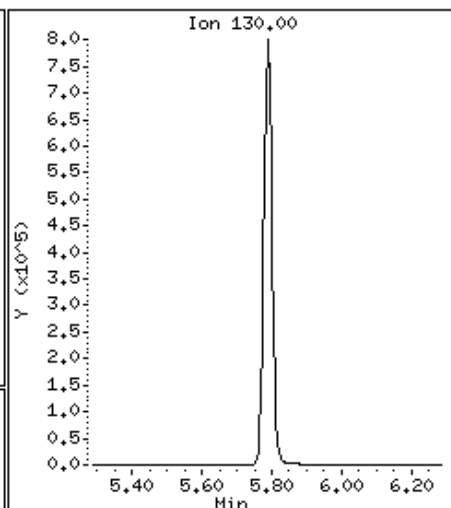
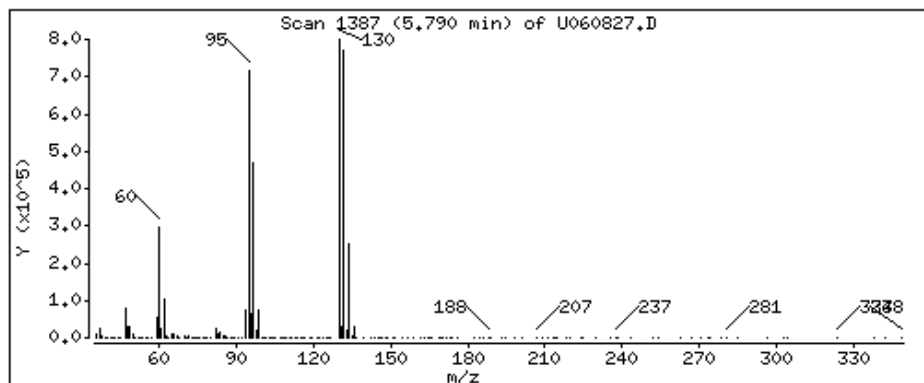
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 179.97 ug/l



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 10

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;;

Purge Volume: 5.0

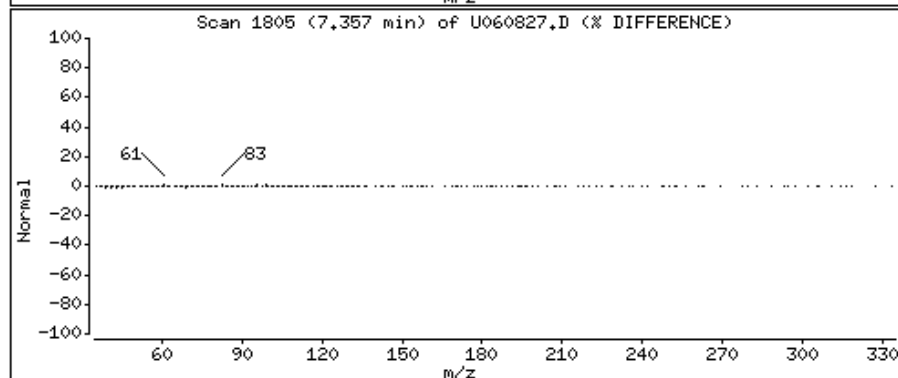
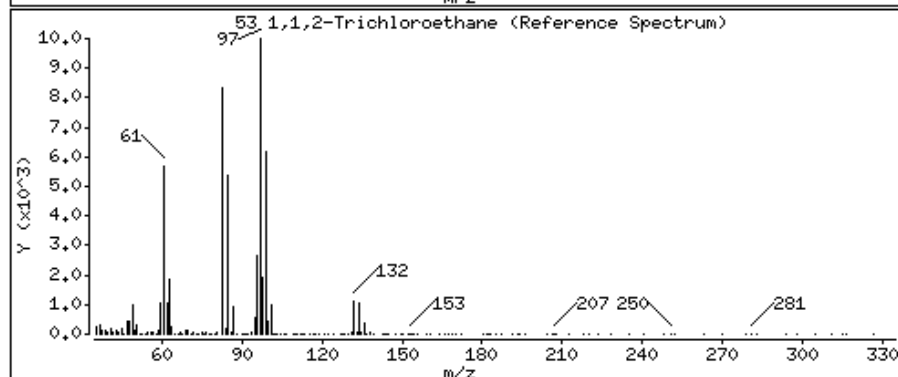
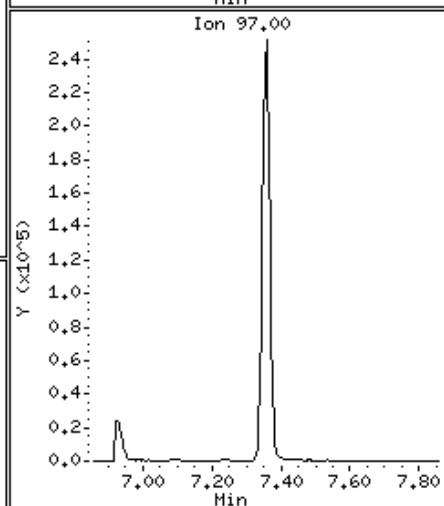
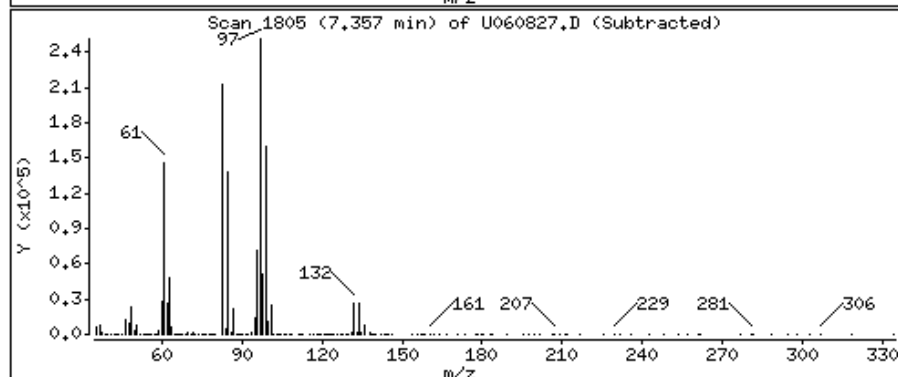
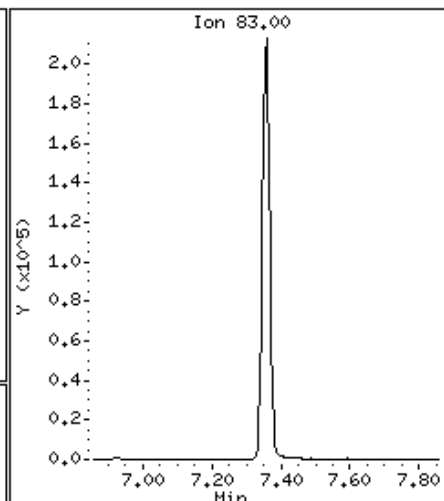
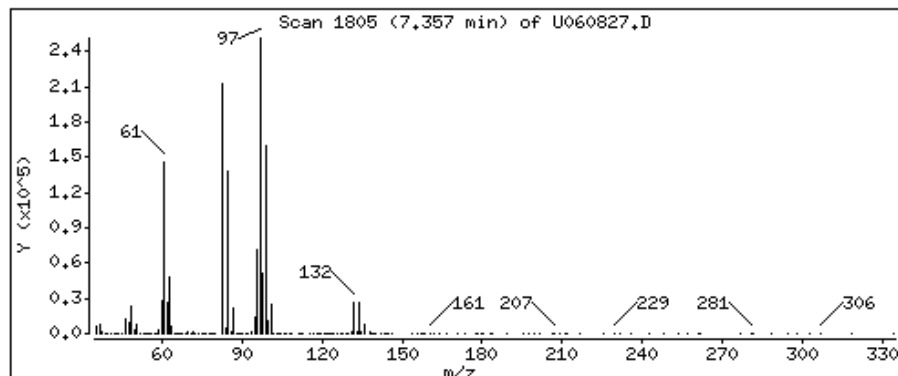
Operator: PC

Column phase: DB624

Column diameter: 0.18

53 1,1,2-Trichloroethane

Concentration: 57.00 ug/l



Data File: \\NAHSTHS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 11

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

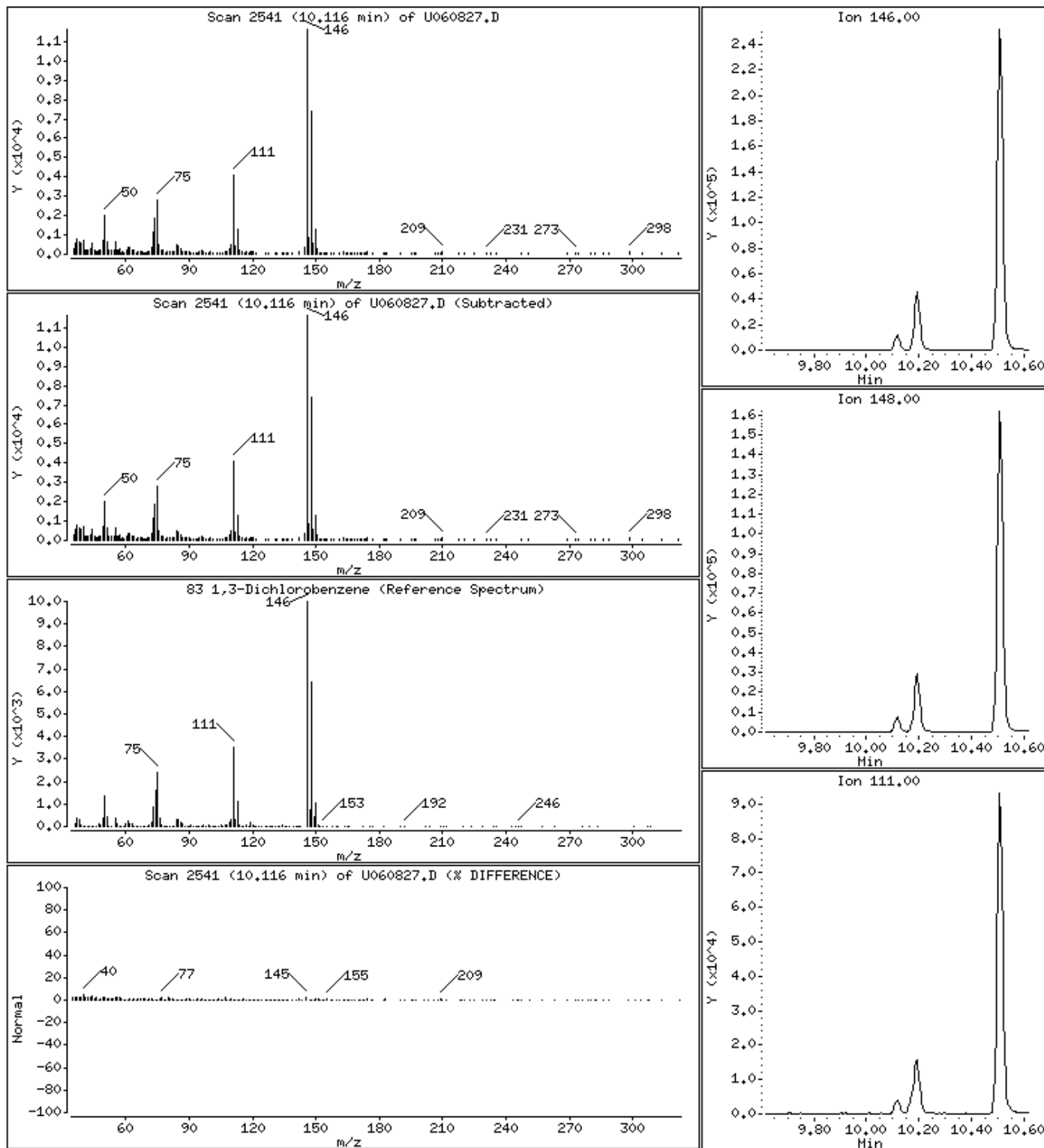
Operator: PC

Column phase: DB624

Column diameter: 0.18

83 1,3-Dichlorobenzene

Concentration: 1.21 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D

Page 12

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

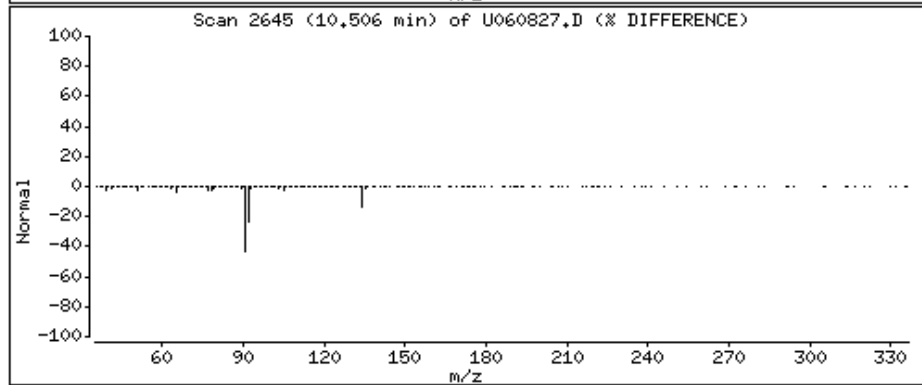
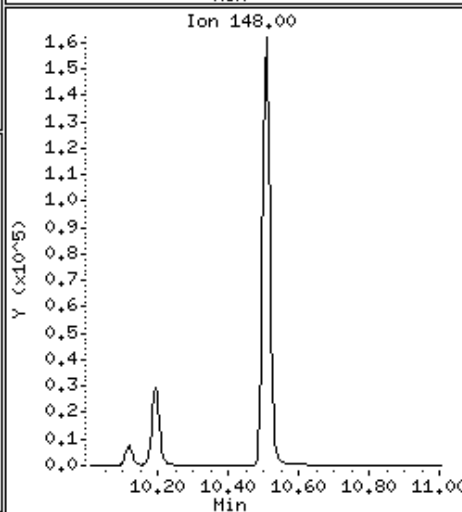
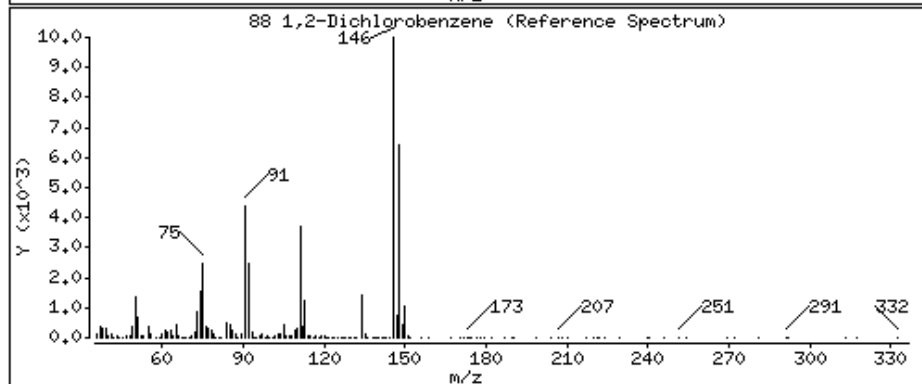
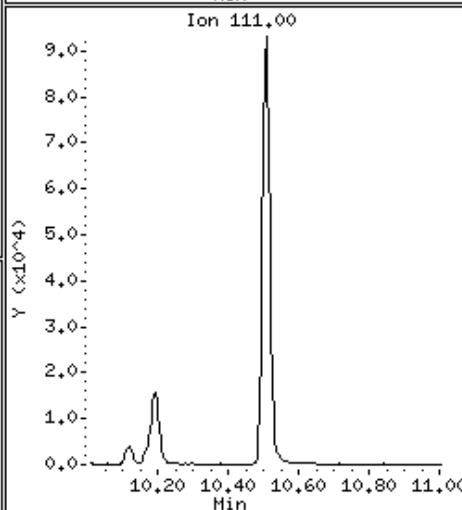
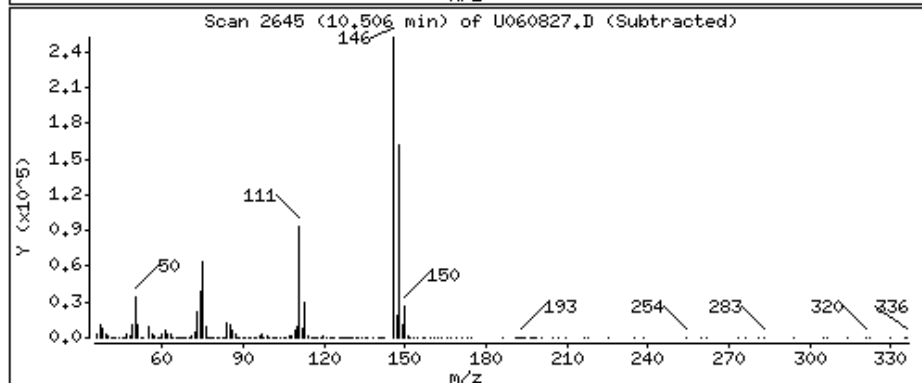
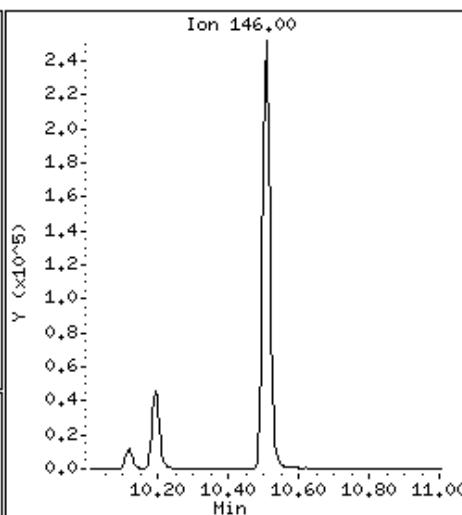
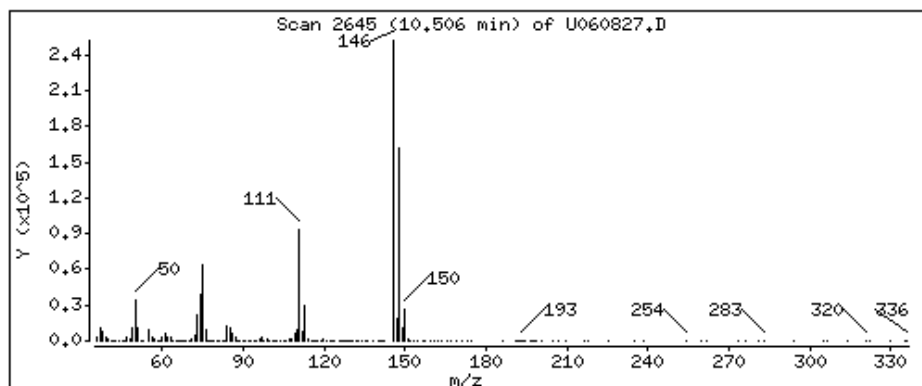
Operator: PC

Column phase: DB624

Column diameter: 0.18

88 1,2-Dichlorobenzene

Concentration: 27.45 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9,i\U230608,b\U060827.D

Page 13

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;;

Purge Volume: 5.0

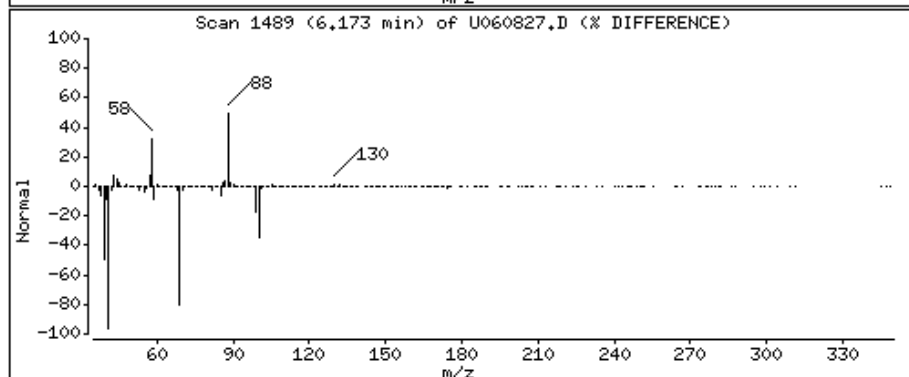
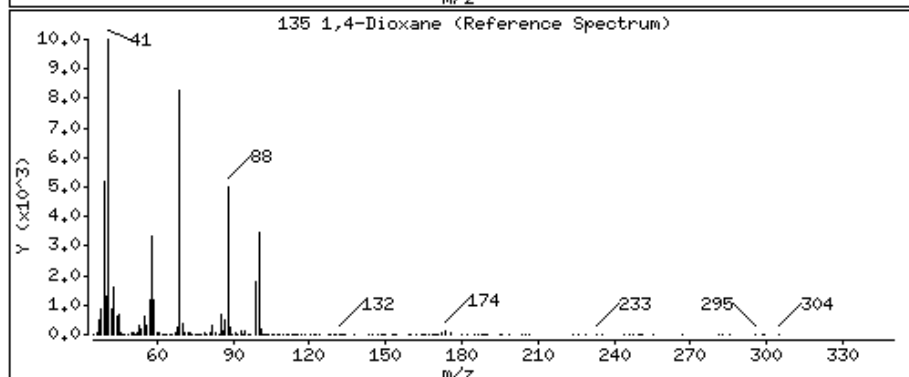
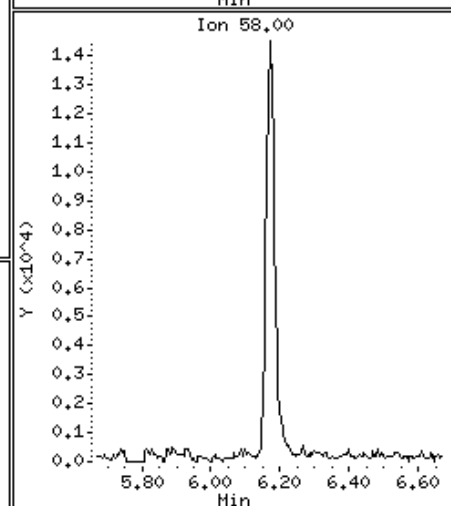
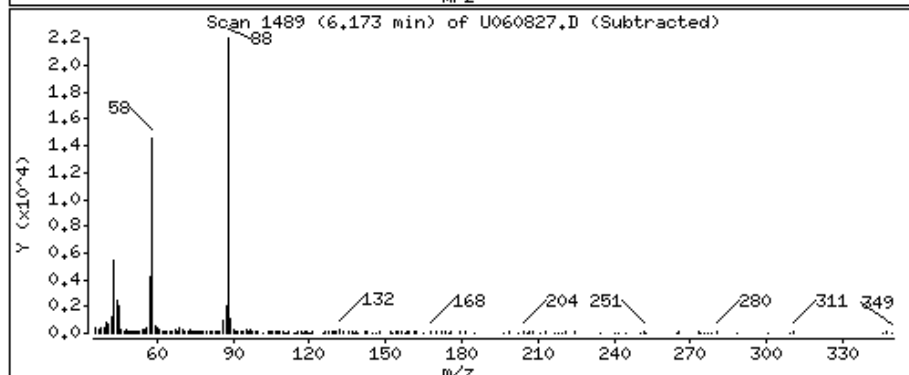
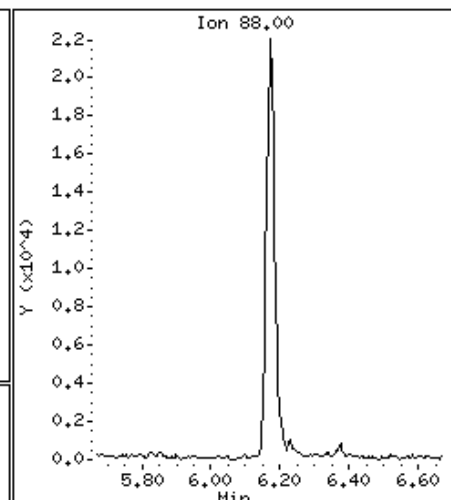
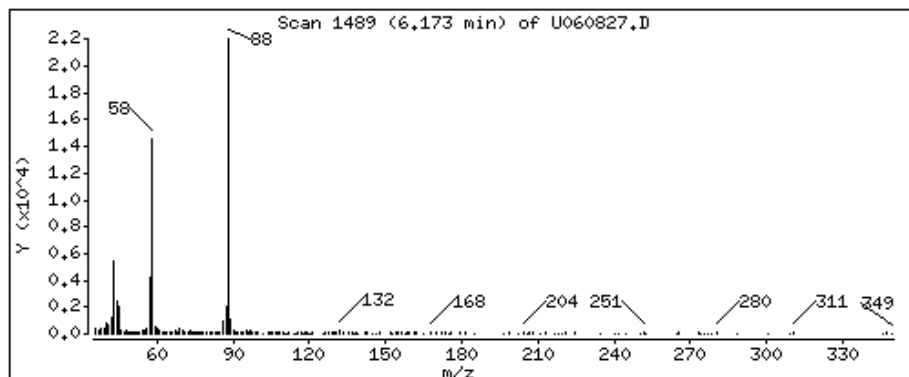
Operator: PC

Column phase: DB624

Column diameter: 0,18

135 1,4-Dioxane

Concentration: 252.18 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U060827.D

Page 14

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

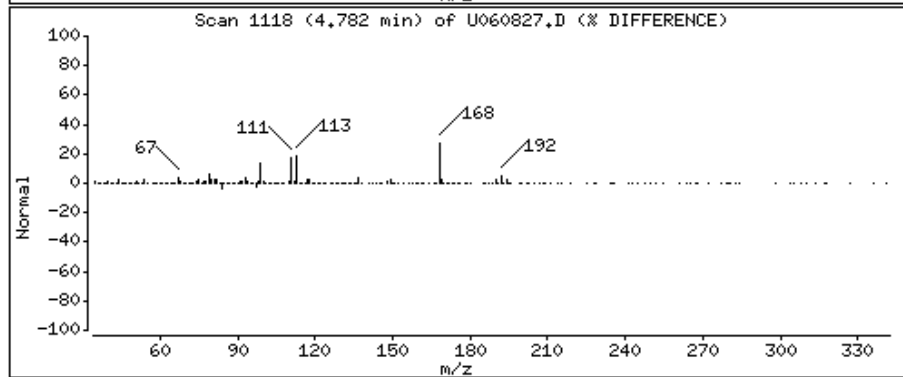
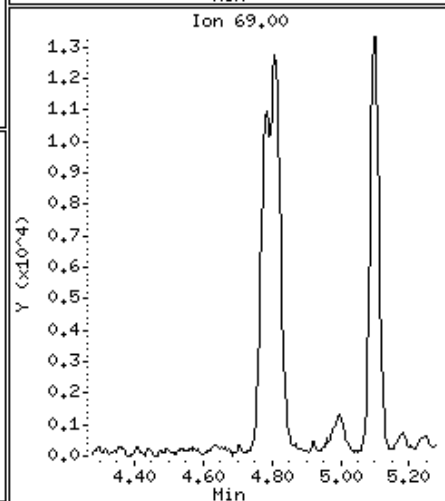
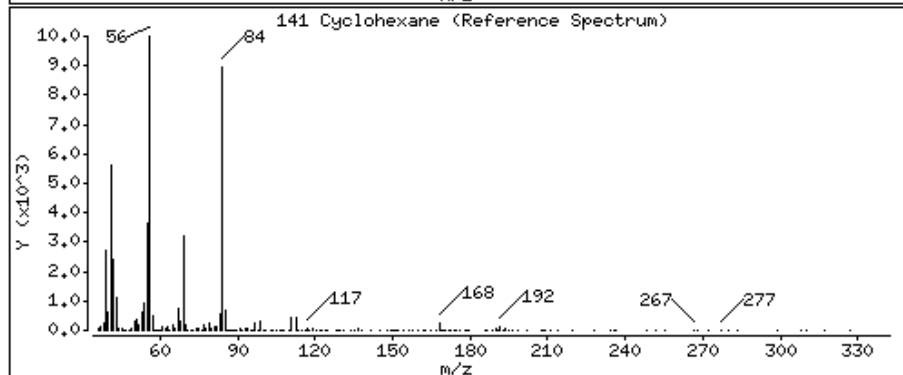
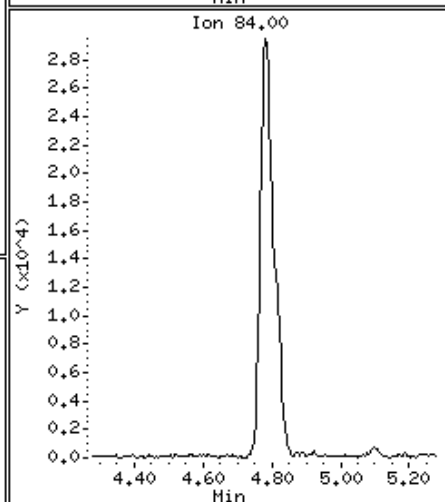
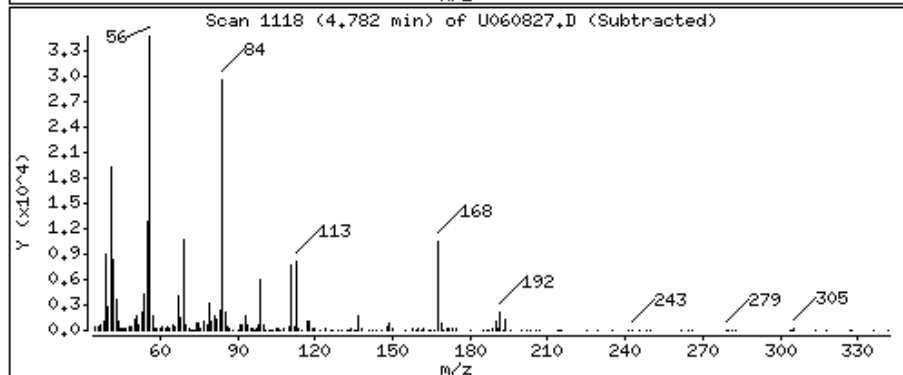
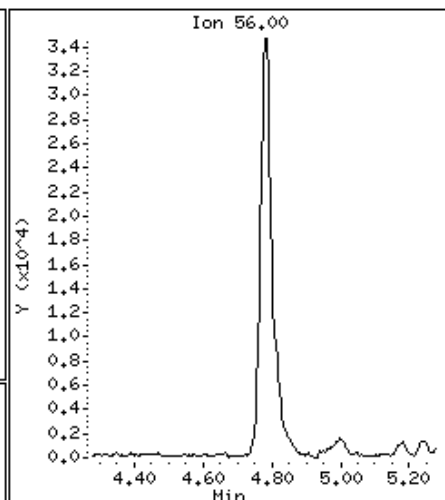
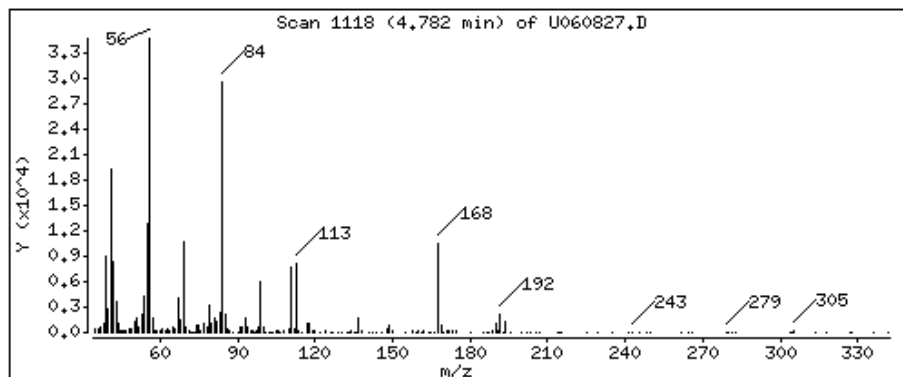
Operator: PC

Column phase: DB624

Column diameter: 0.18

141 Cyclohexane

Concentration: 9.41 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.k\U060827.D

Page 15

Date : 08-JUN-2023 20:24

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

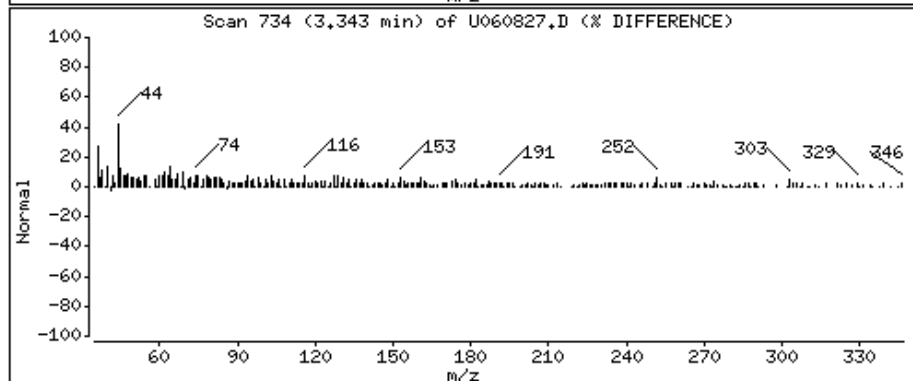
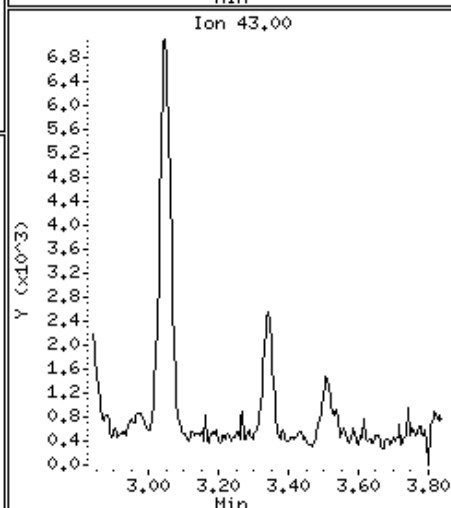
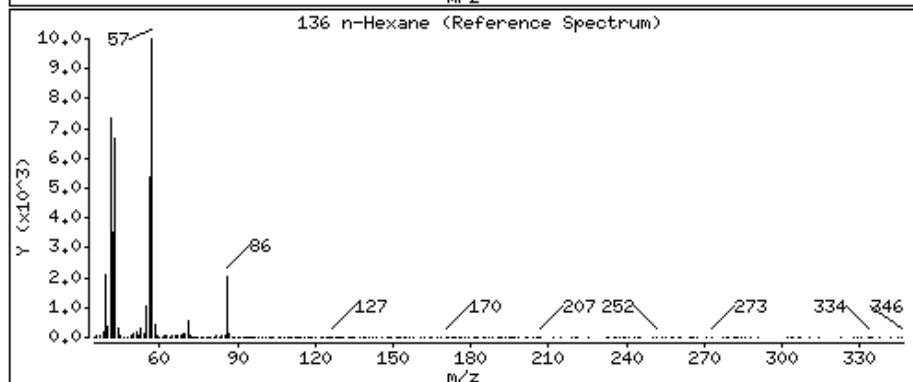
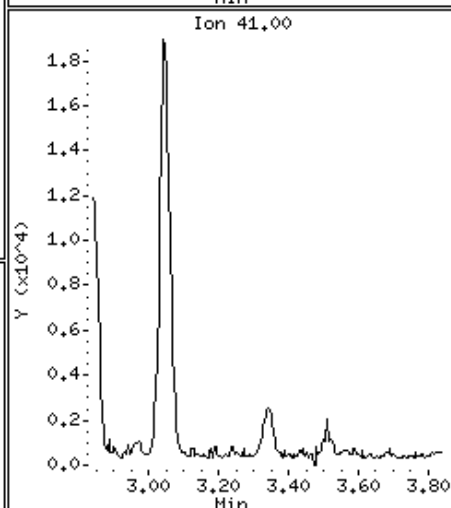
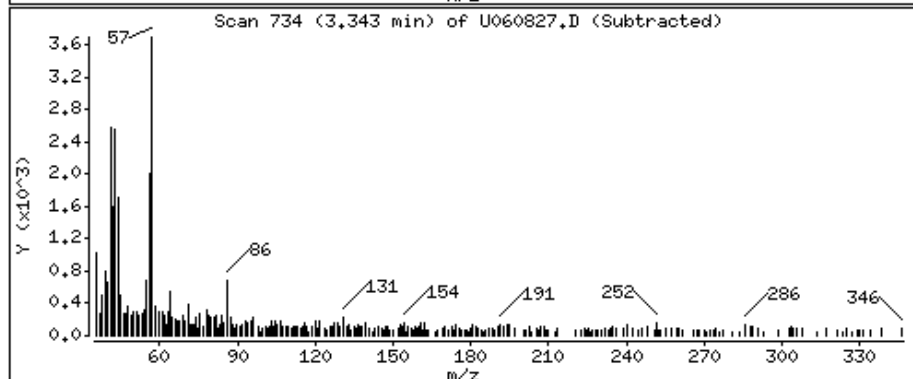
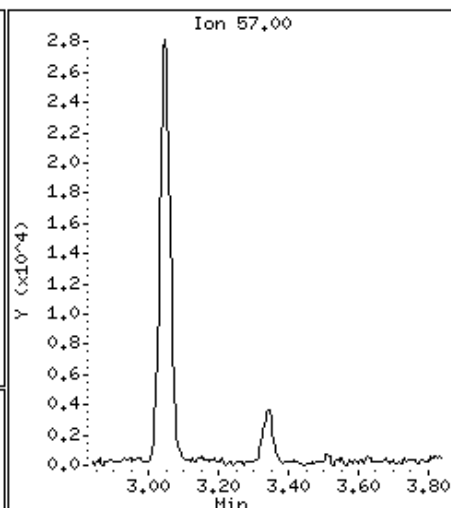
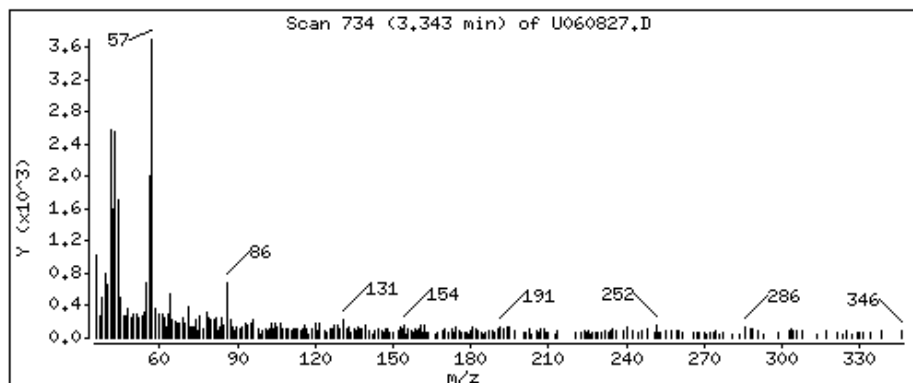
Operator: PC

Column phase: DB624

Column diameter: 0.18

136 n-Hexane

Concentration: 1.24 ug/l



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060827.D
Inj Date : 08-JUN-2023 20:24
InstruID : VOA9.i
LabSampID : HS23060280-02

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060828.D Page 1
 Report Date: 13-Jun-2023 14:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060828.D
 Lab Smp Id: CCV-END Client Smp ID: CCV-END
 Inj Date : 08-JUN-2023 20:46
 Operator : PCRKG Inst ID: VOA9.i
 Smp Info : CCV-END;CCV-END;2;;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\8260C.m
 Meth Date : 13-Jun-2023 14:21 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 27 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.812	4.812	(1.000)		671360	50.0000	
2 Dichlorodifluoromethane	85		1.153	1.153	(0.240)		330636	50.0000	53.29
3 Chloromethane	50		1.288	1.288	(0.268)		539124	50.0000	53.33
5 Vinyl Chloride	62		1.366	1.366	(0.284)		404019	50.0000	56.89
6 Bromomethane	94		1.610	1.610	(0.335)		211531	50.0000	58.22
7 Chloroethane	64		1.693	1.693	(0.352)		241958	50.0000	50.58
8 Trichlorofluoromethane	101		1.888	1.888	(0.392)		478543	50.0000	58.67
9 Acrolein	56		2.259	2.259	(0.469)		29533	100.000	82.87
10 Acetone	43		2.401	2.401	(0.499)		231039	100.000	100.21
11 1,1-Dichloroethene	96		2.326	2.326	(0.484)		269831	50.0000	52.94
15 Iodomethane	142		2.461	2.461	(0.512)		332405	100.000	85.16
16 Acrylonitrile	53		3.061	3.061	(0.636)		263014	100.000	105.63
17 Methylene Chloride	84		2.787	2.787	(0.579)		329676	50.0000	53.92
18 Methyl tert-butyl ether	73		3.072	3.072	(0.639)		792939	50.0000	50.74
19 Carbon Disulfide	76		2.514	2.514	(0.522)		1519146	100.000	111.51
20 trans-1,2-Dichloroethene	96		3.053	3.053	(0.635)		284960	50.0000	51.41
21 Vinyl Acetate	43		3.601	3.601	(0.748)		1721757	100.000	101.91
22 1,1-Dichloroethane	63		3.507	3.507	(0.729)		531527	50.0000	50.46
24 2-Butanone	43		4.260	4.260	(0.885)		287531	100.000	93.93
26 2,2-Dichloropropane	77		4.178	4.178	(0.868)		324028	50.0000	46.56



27 cis-1,2-Dichloroethene	96	4.189	4.189 (0.871)	333199	50.0000	50.25
28 Chloroform	83	4.568	4.568 (0.949)	567657	50.0000	51.78

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060828.D Page 2
 Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.463	4.463	(0.928)	185186	50.0000	49.93
\$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	298695	50.0000	53.02
31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	454114	50.0000	54.35
32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	408248	50.0000	53.74
33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	435623	50.0000	48.55
34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	381059	50.0000	54.60
\$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	322429	50.0000	52.91
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	1036563	50.0000	
37 Benzene	78	5.134	5.134	(0.925)	1292120	50.0000	51.73
38 Trichloroethene	130	5.786	5.786	(1.043)	369998	50.0000	51.10
39 Bromodichloromethane	83	6.277	6.277	(1.131)	397569	50.0000	51.02
41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	11597	100.000	61.53
42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	333608	50.0000	50.02
44 Dibromomethane	93	6.120	6.120	(1.103)	210197	50.0000	49.32
45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	700296	100.000	101.11
46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	471444	50.0000	45.34
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	951030	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1132301	50.0000	52.60
50 Toluene	91	6.982	6.982	(0.853)	1373534	50.0000	53.24
51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	383961	50.0000	44.07
52 2-Hexanone	43	7.593	7.593	(0.928)	448097	100.000	92.90
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	265593	50.0000	49.48
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	559676	50.0000	51.04
55 Dibromochloromethane	129	7.694	7.694	(0.940)	349601	50.0000	54.89
56 Tetrachloroethene	164	7.458	7.458	(0.911)	333452	50.0000	53.05
57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	326012	50.0000	49.24
58 1-Chlorohexane	55	8.197	8.197	(1.477)	262855	50.0000	49.38
59 Chlorobenzene	112	8.212	8.212	(1.003)	913108	50.0000	49.60
60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	335979	50.0000	53.10
61 Ethylbenzene	106	8.305	8.305	(1.015)	455916	50.0000	53.20
62 m,p-Xylenes	106	8.410	8.410	(1.027)	1115311	100.000	110.02
63 o-Xylene	106	8.748	8.748	(1.069)	536609	50.0000	53.58
64 Styrene	104	8.763	8.763	(1.071)	880288	50.0000	55.38
66 Bromoform	173	8.920	8.920	(1.090)	225822	50.0000	52.53
67 Isopropylbenzene	105	9.063	9.063	(1.107)	1329836	50.0000	55.28
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	430047	50.0000	46.44
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	437652	50.0000	51.63
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	492233	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	380496	50.0000	46.71
73 n-Propylbenzene	91	9.411	9.411	(0.925)	1382341	50.0000	53.53
74 Bromobenzene	156	9.317	9.317	(0.916)	406986	50.0000	49.00
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	913626	50.0000	51.57
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	942548	50.0000	51.93
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	1040359	50.0000	51.78
78 tert-Butylbenzene	119	9.839	9.839	(0.967)	929603	50.0000	53.43
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	896519	50.0000	48.37
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	1203645	50.0000	54.55
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	976676	50.0000	52.84
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	687130	50.0000	48.71
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	707350	50.0000	47.03
87 n-Butylbenzene	91	10.491	10.491	(1.031)	799608	50.0000	50.53
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	684629	50.0000	48.40



89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169 (1.098)	66184	50.0000	48.98
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	468793	50.0000	48.18

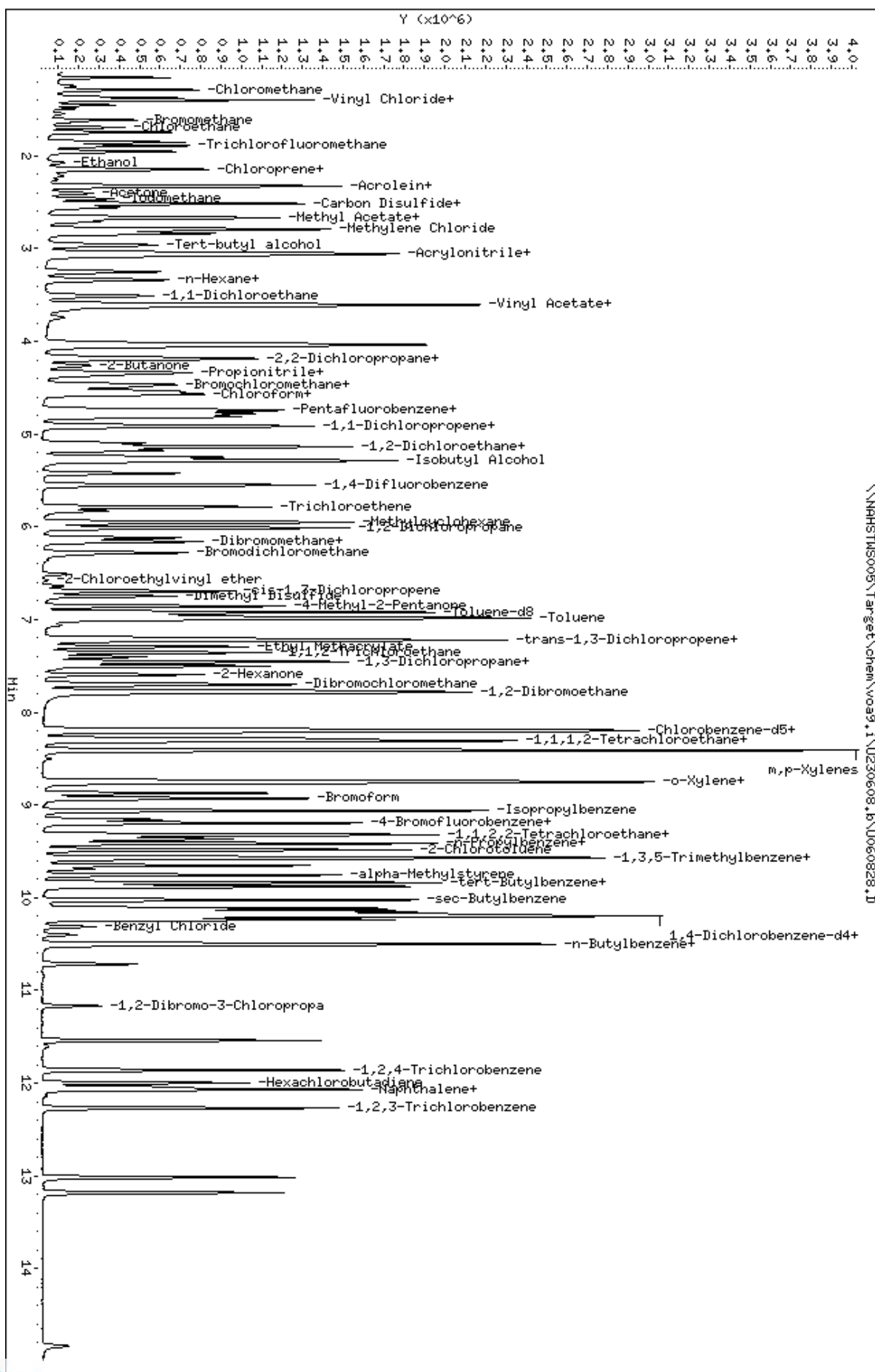
Data File: \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060828.D Page 3
 Report Date: 13-Jun-2023 14:21

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	194399	50.0000	49.48
92 Naphthalene	128	12.065	12.065	(1.186)	1138276	50.0000	50.37
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	462389	50.0000	48.61
M 94 1,2-Dichloroethylene (total)	96				618159	100.000	(a)
135 1,4-Dioxane	88	6.169	6.169	(1.282)	88037	1000.00	660.40
141 Cyclohexane	56	4.778	4.778	(0.993)	465952	50.0000	56.23
138 Freon TF	101	2.326	2.326	(0.484)	255580	50.0000	56.68
140 1,3-Butadiene	54	1.396	1.396	(0.290)	354777	50.0000	55.79
147 Methylcyclohexane	55	5.947	5.947	(1.072)	758518	50.0000	52.75
146 Methyl Acetate	43	2.705	2.705	(0.562)	271314	50.0000	47.99
148 Tert-Butyl alcohol	59	2.960	2.960	(0.615)	609771	1000.00	982.93
149 Isopropyl Alcohol	45	2.555	2.555	(0.531)	415700	1000.00	947.16
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	51354	50.0000	46.89
12 Isobutyl Alcohol	43	5.288	5.288	(1.099)	1024899	1000.00	1174.96
13 Acetonitrile	39	2.664	2.664	(0.554)	381842	500.000	525.33
14 Allyl Chloride	41	2.664	2.664	(0.554)	888243	50.0000	50.96
25 Methacrylonitrile	41	4.493	4.493	(0.934)	210734	50.0000	53.12
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	305823	50.0000	52.97
4 Propionitrile	54	4.335	4.335	(0.901)	484326	500.000	499.23
136 n-Hexane	57	3.338	3.338	(0.694)	298531	50.0000	53.09
131 Methyl Acrylate	55	4.365	4.365	(0.907)	376330	50.0000	53.00
200 Dimethyl Disulfide	94	6.746	6.746	(0.824)	297737	50.0000	42.65
23 Chloroprene	53	2.150	2.150	(0.447)	118674	50.0000	55.42
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	459991	50.0000	50.62
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	895917	50.0000	47.35
167 Ethanol	45	2.075	2.075	(0.431)	84300	1000.00	1006.42
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	1198340	50.0000	49.90
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	428095	50.0000	46.62
142 Tetrahydrofuran	42	4.542	4.542	(0.944)	119746	100.000	101.01
156 Diisopropyl ether	45	3.616	3.616	(0.751)	936327	50.0000	50.01
151 4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	1317381	1000.00	854.67
150 Allyl alcohol	57	3.338	3.338	(0.694)	298531	1000.00	1062.09
86 Benzyl Chloride	91	10.311	10.311	(1.260)	175443	50.0000	32.18
162 Butyl acrylate	55	8.733	8.733	(1.067)	546295	50.0000	48.56
139 Diethyl ether	59	2.139	2.139	(0.445)	228570	50.0000	50.38
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	216685	50.0000	46.21
134 Cyclohexanone	55	9.156	9.156	(0.900)	222583	1000.00	729.38
130 Ethyl Acetate	43	4.339	4.339	(0.902)	360804	50.0000	60.12

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa9.i\U230608.b\U060828.D
 Date : 08-JUN-2023 20:46
 Client ID: CCV-END
 Sample Info: CCV-END;CCV-END;2;;
 Purge Volume: 5.0
 Column phase: DB624

Instrument: VOA9.i
 Operator: PCKG
 Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U230608.b\U060828.D
Inj Date : 08-JUN-2023 20:46
InstruID : VOA9.i
LabSampID : CCV-END

NO MANUAL INTEGRATIONS





Raw Data VOA9 437641

Volatiles by EPA 8260

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/13/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060901.D Page 1
 Report Date: 09-Jun-2023 10:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060901.D
 Lab Smp Id: BFB Client Smp ID: BFB
 Inj Date : 09-JUN-2023 10:20
 Operator : PC Inst ID: VOA9.i
 Smp Info : BFB;BFB;3;;BFB
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\bfb.m
 Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
 Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: WATER
 Processing Host: NAHSTW7051

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

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

CONCENTRATIONS									
				ON-COL		FINAL			
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET	RANGE	RATIO
====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1 bfb				CAS #: 460-00-4					
9.193	9.180 (0.000)	95	134656				0.00-	100.00	100.00
9.193	9.180 (0.000)	50	24776				15.00-	40.00	18.40
9.193	9.180 (0.000)	75	62960				30.00-	60.00	46.76
9.193	9.180 (0.000)	96	8826				5.00-	9.00	6.55
9.193	9.180 (0.000)	173	0	0.0	0.0	0.00-	2.00	0.00	
9.193	9.180 (0.000)	174	122040				50.00-	0.00	90.63
9.193	9.180 (0.000)	175	10917				5.00-	9.00	8.95
9.193	9.180 (0.000)	176	117680				95.00-	101.00	96.43
9.193	9.180 (0.000)	177	8453				5.00-	9.00	7.18



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.40
75	30.00 - 60.00% of mass 95	46.76
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	90.63
175	5.00 - 9.00% of mass 174	8.11 (8.95)
176	95.00 - 101.00% of mass 174	87.39 (96.43)
177	5.00 - 9.00% of mass 176	6.28 (7.18)

Data File: U060901.D
 Spectrum: Scan 2293 (9.19)
 Location of Maximum: 95.00
 Number of points: 170

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	430	77.90	784	120.00	157	163.80	95
36.00	1819	78.90	3425	121.10	123	167.80	178
37.00	7334	79.90	1414	121.60	163	168.70	239
38.00	6741	80.90	3522	123.10	159	169.80	176
39.00	6468	81.80	845	123.60	149	170.90	1808
40.00	1287	82.90	842	123.80	147	171.90	569
41.00	6325	83.70	181	124.90	98	173.90	122040
42.10	6484	84.20	232	125.70	116	175.00	10917
43.00	8828	84.90	306	126.90	3063	175.90	117680
44.00	3688	86.00	458	127.90	1203	176.90	8453
45.00	6265	87.00	5892	128.70	326	177.70	298
46.00	370	88.00	5548	130.00	565	183.70	86
47.00	2024	89.50	115	130.80	250	184.80	335
48.10	892	90.10	132	131.80	59	185.90	3077
49.00	5106	90.90	743	133.40	59	186.90	140
50.00	24776	92.00	3706	134.80	316	188.10	60
51.00	8727	93.00	5726	136.10	96	189.30	120
51.90	589	94.00	16416	136.70	206	191.80	58
53.00	614	95.00	134656	137.80	57	199.90	82
54.00	806	96.00	8826	138.20	56	206.90	93
55.00	7192	97.10	512	138.90	202	207.70	61
56.00	3124	98.00	2684	139.70	197	214.30	65
57.00	4110	99.00	286	140.90	2428	226.10	57
58.10	2848	100.10	71	141.90	3132	228.40	54
59.00	12946	101.00	59	142.90	1574	233.60	75
60.10	1799	101.50	90	144.00	166	233.90	71
61.00	6183	103.00	187	144.70	124	235.20	79
62.00	5765	103.80	590	145.90	227	235.80	141
63.00	4320	104.80	422	147.00	157	244.40	56
64.00	586	105.90	825	147.80	381	245.80	85
64.90	620	106.90	567	148.90	155	247.30	92
65.90	351	107.70	75	149.90	183	249.60	69
67.10	688	108.90	392	151.40	107	274.80	63
68.00	13621	109.70	284	151.80	106	281.10	70
69.00	15515	111.00	81	152.80	229	282.10	54
70.00	2915	111.90	167	154.90	515	301.10	52
71.00	261	112.90	232	156.00	112	303.50	51
71.90	1014	114.10	81	156.80	288	305.10	98
73.00	5793	115.00	257	157.90	68	311.80	54
74.00	21848	115.80	353	159.00	197	324.50	73
75.00	62960	116.90	819	161.00	260	338.70	66
76.00	5858	117.90	628	161.90	50		
77.00	1340	118.90	697	163.10	62		

Data File: \\NAHSTWS005\Target\chem\voa9,i\U230609,b\U060901.D

Page 1

Date : 09-JUN-2023 10:20

Client ID: BFB

Instrument: VOA9.i

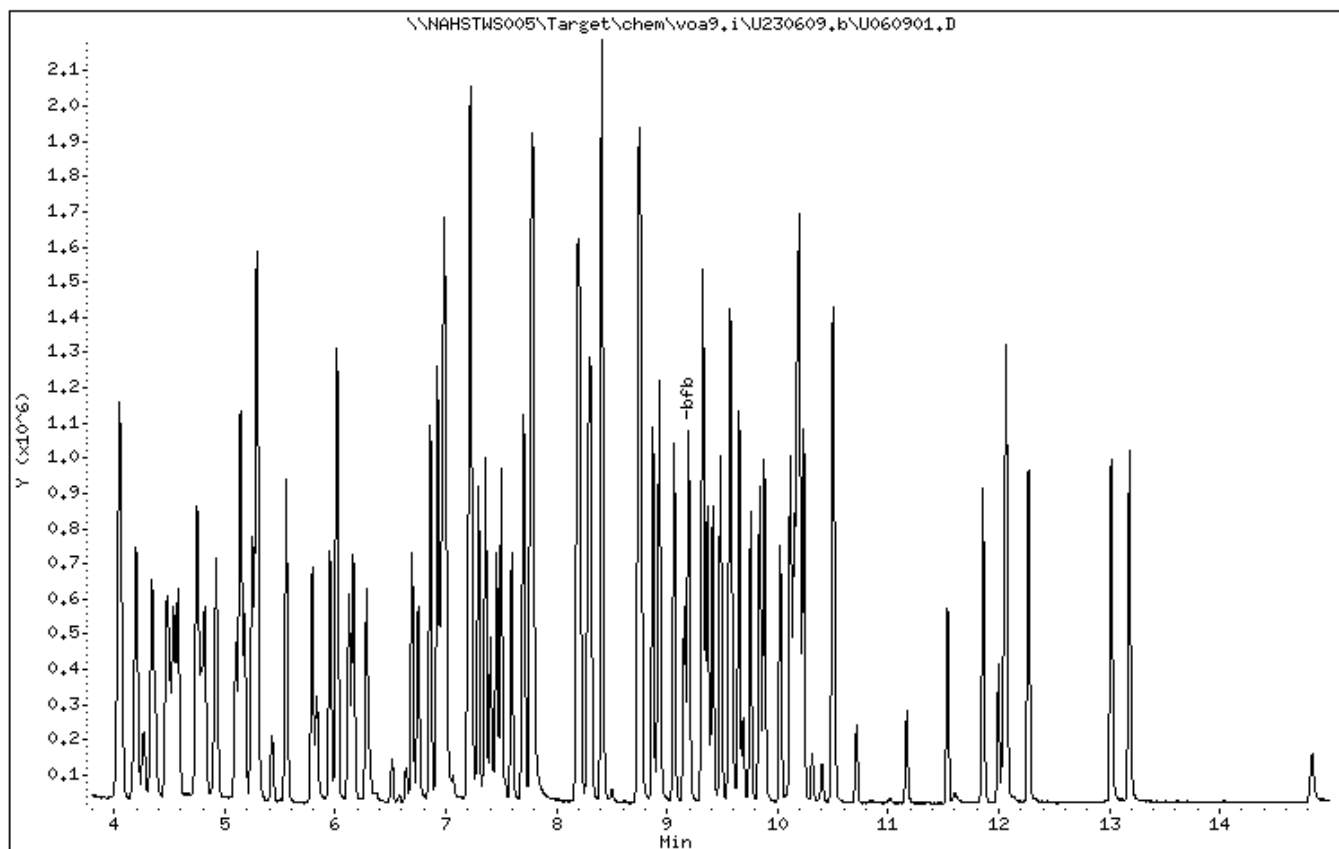
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060901.D

Page 2

Date : 09-JUN-2023 10:20

Client ID: BFB

Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

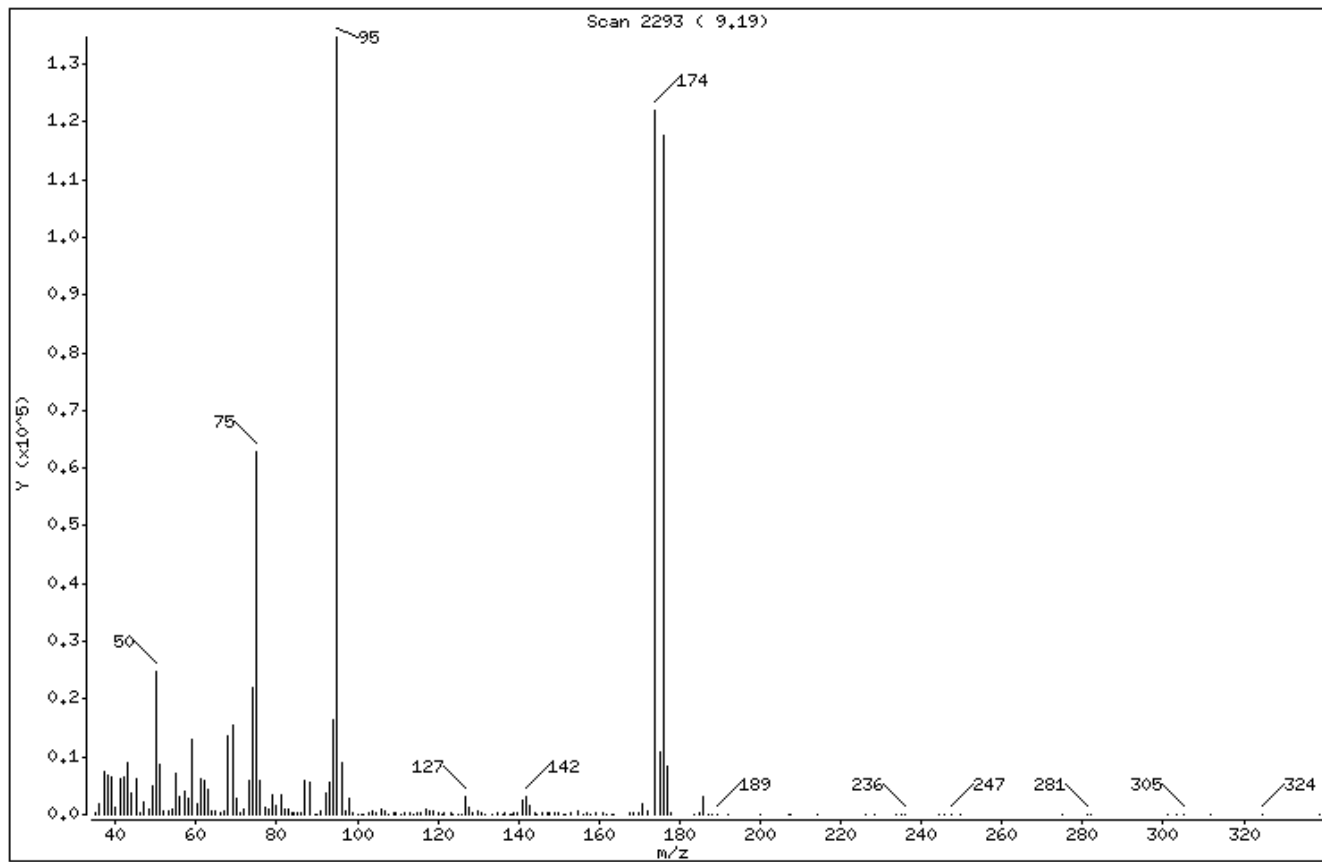
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.40
75	30.00 - 60.00% of mass 95	46.76
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	90.63
175	5.00 - 9.00% of mass 174	8.11 (8.95)
176	95.00 - 101.00% of mass 174	87.39 (96.43)
177	5.00 - 9.00% of mass 176	6.28 (7.18)



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060901.D

Page 3

Date : 09-JUN-2023 10:20

Client ID: BFB

Instrument: VOA9.i

Sample Info: BFB;BFB;3;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: U060901.D
 Spectrum: Scan 2293 (9.19)
 Location of Maximum: 95.00
 Number of points: 170

m/z	Y	m/z	Y	m/z	Y	m/z	Y

35.10	430	77.90	784	120.00	157	163.80	95
36.00	1819	78.90	3425	121.10	123	167.80	178
37.00	7334	79.90	1414	121.60	163	168.70	239
38.00	6741	80.90	3522	123.10	159	169.80	176
39.00	6468	81.80	845	123.60	149	170.90	1808

40.00	1287	82.90	842	123.80	147	171.90	569
41.00	6325	83.70	181	124.90	98	173.90	122040
42.10	6484	84.20	232	125.70	116	175.00	10917
43.00	8828	84.90	306	126.90	3063	175.90	117680
44.00	3688	86.00	458	127.90	1203	176.90	8453

45.00	6265	87.00	5892	128.70	326	177.70	298
46.00	370	88.00	5548	130.00	565	183.70	86
47.00	2024	89.50	115	130.80	250	184.80	335
48.10	892	90.10	132	131.80	59	185.90	3077
49.00	5106	90.90	743	133.40	59	186.90	140

50.00	24776	92.00	3706	134.80	316	188.10	60
51.00	8727	93.00	5726	136.10	96	189.30	120
51.90	589	94.00	16416	136.70	206	191.80	58
53.00	614	95.00	134656	137.80	57	199.90	82
54.00	806	96.00	8826	138.20	56	206.90	93

55.00	7192	97.10	512	138.90	202	207.70	61
56.00	3124	98.00	2684	139.70	197	214.30	65
57.00	4110	99.00	286	140.90	2428	226.10	57
58.10	2848	100.10	71	141.90	3132	228.40	54
59.00	12946	101.00	59	142.90	1574	233.60	75

60.10	1799	101.50	90	144.00	166	233.90	71
61.00	6183	103.00	187	144.70	124	235.20	79
62.00	5765	103.80	590	145.90	227	235.80	141
63.00	4320	104.80	422	147.00	157	244.40	56
64.00	586	105.90	825	147.80	381	245.80	85

64.90	620	106.90	567	148.90	155	247.30	92
65.90	351	107.70	75	149.90	183	249.60	69
67.10	688	108.90	392	151.40	107	274.80	63
68.00	13621	109.70	284	151.80	106	281.10	70
69.00	15515	111.00	81	152.80	229	282.10	54



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.k\U060901.D

Page 4

Date : 09-JUN-2023 10:20

Client ID: BFB

Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: U060901.D

Spectrum: Scan 2293 (9.19)

Location of Maximum: 95.00

Number of points: 170

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	2915	111.90	167	154.90	515	301.10	52
71.00	261	112.90	232	156.00	112	303.50	51
71.90	1014	114.10	81	156.80	288	305.10	98
73.00	5793	115.00	257	157.90	68	311.80	54
74.00	21848	115.80	353	159.00	197	324.50	73
75.00	62960	116.90	819	161.00	260	338.70	66
76.00	5858	117.90	628	161.90	50		
77.00	1340	118.90	697	163.10	62		



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060903.D Page 1
 Report Date: 13-Jun-2023 14:36

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060903.D
 Lab Smp Id: CCV Client Smp ID: CCV
 Inj Date : 09-JUN-2023 11:04
 Operator : PC Inst ID: VOA9.i
 Smp Info : CCV;CCV;2;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\8260C.m
 Meth Date : 13-Jun-2023 14:36 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.812	4.812	(1.000)		714633	50.0000	
2 Dichlorodifluoromethane	85		1.157	1.157	(0.240)		276957	50.0000	41.95
3 Chloromethane	50		1.292	1.292	(0.269)		453556	50.0000	41.86
5 Vinyl Chloride	62		1.370	1.370	(0.285)		336176	50.0000	44.47
6 Bromomethane	94		1.614	1.614	(0.336)		188633	50.0000	48.47
7 Chloroethane	64		1.693	1.693	(0.352)		213888	50.0000	42.00
8 Trichlorofluoromethane	101		1.891	1.891	(0.393)		396345	50.0000	45.65
9 Acrolein	56		2.259	2.259	(0.469)		33793	100.000	89.08
10 Acetone	43		2.401	2.401	(0.499)		272089	100.000	111.47
11 1,1-Dichloroethene	96		2.326	2.326	(0.484)		231861	50.0000	42.74
15 Iodomethane	142		2.465	2.465	(0.512)		417981	100.000	98.13
16 Acrylonitrile	53		3.061	3.061	(0.636)		241447	100.000	91.10
17 Methylene Chloride	84		2.791	2.791	(0.580)		293773	50.0000	44.97
18 Methyl tert-butyl ether	73		3.076	3.076	(0.639)		760269	50.0000	45.70
19 Carbon Disulfide	76		2.514	2.514	(0.522)		1297903	100.000	89.50
20 trans-1,2-Dichloroethene	96		3.053	3.053	(0.635)		254333	50.0000	43.11
21 Vinyl Acetate	43		3.601	3.601	(0.748)		1737751	100.000	96.63
22 1,1-Dichloroethane	63		3.511	3.511	(0.730)		466657	50.0000	41.62
24 2-Butanone	43		4.261	4.261	(0.885)		295258	100.000	90.61
26 2,2-Dichloropropane	77		4.178	4.178	(0.868)		340648	50.0000	45.98



27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	311689	50.0000	44.16
28 Chloroform	83	4.572	4.572 (0.950)	511251	50.0000	43.81

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060903.D Page 2
 Report Date: 13-Jun-2023 14:36

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.467	4.467	(0.928)	165418	50.0000	41.90
\$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	289526	50.0000	48.25
31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	391199	50.0000	43.98
32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	352794	50.0000	46.30
33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	420492	50.0000	46.72
34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	313628	50.0000	44.81
\$ 35 1,2-Dichloroethane-d4	65	5.097	5.097	(1.059)	307992	50.0000	47.41
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	1039676	50.0000	
37 Benzene	78	5.138	5.138	(0.926)	1166872	50.0000	46.57
38 Trichloroethene	130	5.786	5.786	(1.043)	329905	50.0000	45.43
39 Bromodichloromethane	83	6.277	6.277	(1.131)	382459	50.0000	48.94
41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	15557	100.000	82.30(M)
42 1,2-Dichloropropane	63	6.011	6.011	(1.083)	315593	50.0000	47.18
44 Dibromomethane	93	6.120	6.120	(1.103)	199845	50.0000	46.75
45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	709649	100.000	99.71
46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	466200	50.0000	44.73
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	977259	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1122779	50.0000	50.76
50 Toluene	91	6.978	6.978	(0.853)	1261546	50.0000	47.59
51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	391057	50.0000	44.72
52 2-Hexanone	43	7.593	7.593	(0.928)	474976	100.000	95.83
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	253854	50.0000	46.02
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	536632	50.0000	47.62
55 Dibromochloromethane	129	7.694	7.694	(0.940)	340992	50.0000	52.11
56 Tetrachloroethene	164	7.458	7.458	(0.911)	288113	50.0000	44.61
57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	319514	50.0000	46.96
58 1-Chlorohexane	55	8.197	8.197	(1.477)	216955	50.0000	40.63
59 Chlorobenzene	112	8.208	8.208	(1.003)	882057	50.0000	46.62
60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	315198	50.0000	48.47
61 Ethylbenzene	106	8.305	8.305	(1.015)	421727	50.0000	47.89
62 m,p-Xylenes	106	8.410	8.410	(1.027)	1036414	100.000	99.49
63 o-Xylene	106	8.748	8.748	(1.069)	515432	50.0000	50.08
64 Styrene	104	8.763	8.763	(1.071)	872211	50.0000	53.40
66 Bromoform	173	8.920	8.920	(1.090)	233155	50.0000	52.78
67 Isopropylbenzene	105	9.063	9.063	(1.107)	1173106	50.0000	47.46
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	432896	50.0000	45.61
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	451089	50.0000	51.79
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	504481	50.0000	
71 1,2,3-Trichloropropane	75	9.363	9.363	(0.920)	389423	50.0000	46.64
73 n-Propylbenzene	91	9.411	9.411	(0.925)	1260921	50.0000	47.65
74 Bromobenzene	156	9.318	9.318	(0.916)	398571	50.0000	46.82
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	831345	50.0000	45.79
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	885978	50.0000	47.62
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	991047	50.0000	48.13
78 tert-Butylbenzene	119	9.839	9.839	(0.967)	796304	50.0000	44.66
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	869013	50.0000	45.74
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	1014225	50.0000	44.85
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	870776	50.0000	45.96
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	660673	50.0000	45.69
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	688434	50.0000	44.66
87 n-Butylbenzene	91	10.491	10.491	(1.031)	711021	50.0000	43.84
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	659418	50.0000	45.49



89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166 (1.098)	64984	50.0000	46.92
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	457207	50.0000	45.85



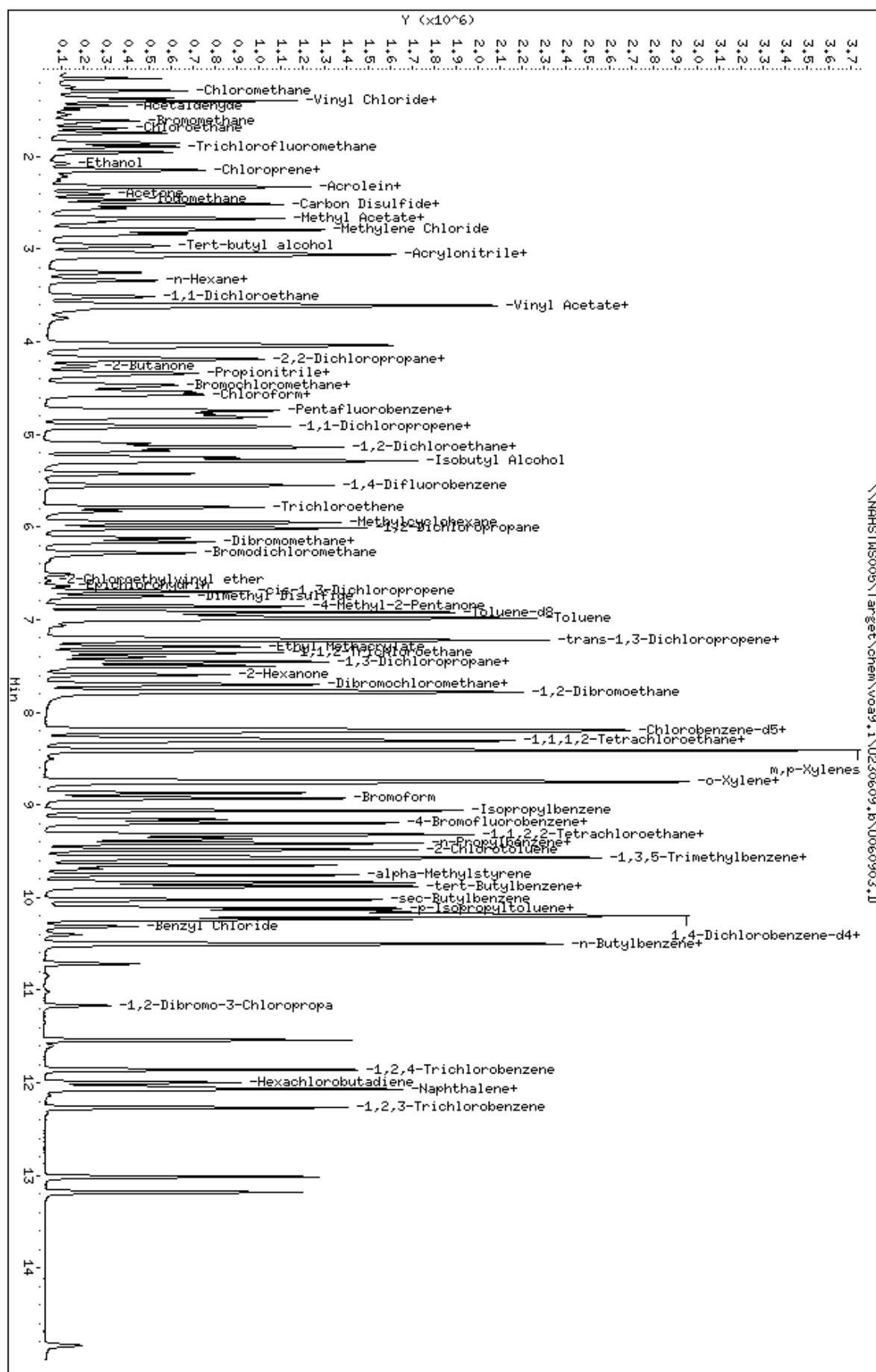
Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060903.D Page 3
 Report Date: 13-Jun-2023 14:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	174114	50.0000	43.24
92 Naphthalene	128	12.065	12.065	(1.186)	1174072	50.0000	50.69
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	444904	50.0000	45.64
M 94 1,2-Dichloroethylene (total)	96				566022	100.000	(a)
135 1,4-Dioxane	88	6.169	6.169	(1.282)	88900	1000.00	626.49
141 Cyclohexane	56	4.778	4.778	(0.993)	352090	50.0000	40.31
138 Freon TF	101	2.330	2.330	(0.484)	207090	50.0000	43.14
140 1,3-Butadiene	54	1.397	1.397	(0.290)	307605	50.0000	45.45
147 Methylcyclohexane	55	5.947	5.947	(1.072)	698386	50.0000	48.42
146 Methyl Acetate	43	2.709	2.709	(0.563)	254852	50.0000	42.35
148 Tert-Butyl alcohol	59	2.964	2.964	(0.616)	616287	1000.00	933.03
149 Isopropyl Alcohol	45	2.559	2.559	(0.532)	408063	1000.00	873.46
72 trans-1,4-Dichloro-2-butene	53	9.378	9.378	(1.146)	57736	50.0000	51.31
12 Isobutyl Alcohol	43	5.288	5.288	(1.099)	1013257	1000.00	1091.27
13 Acetonitrile	39	2.667	2.667	(0.554)	357592	500.000	462.18
14 Allyl Chloride	41	2.667	2.667	(0.554)	811110	50.0000	43.71
25 Methacrylonitrile	41	4.493	4.493	(0.934)	189346	50.0000	44.84
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	297177	50.0000	48.36
4 Propionitrile	54	4.336	4.336	(0.901)	464994	500.000	450.28
194 Acetaldehyde	44	1.453	1.453	(0.302)	209603	200.000	212.66(M)
131 Methyl Acrylate	55	4.366	4.366	(0.907)	358754	50.0000	47.46
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	445723	50.0000	48.90
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	1112280	50.0000	45.19
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	416471	50.0000	44.43
142 Tetrahydrofuran	42	4.542	4.542	(0.944)	114028	100.000	90.11
156 Diisopropyl ether	45	3.620	3.620	(0.752)	900997	50.0000	45.21
86 Benzyl Chloride	91	10.311	10.311	(1.260)	270677	50.0000	46.58
162 Butyl acrylate	55	8.733	8.733	(1.067)	552979	50.0000	47.83
130 Ethyl Acetate	43	4.339	4.339	(0.902)	349065	50.0000	54.64
189 n-Butyl acetate	43	7.706	7.706	(0.941)	537395	50.0000	48.29
182 Epichlorohydrin	57	6.633	6.633	(1.195)	16507	200.000	168.61(M)

QC Flag Legend

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





\\NAHSTMS005\Target\chem\voa3.1\U230609.1\U060903.D

Data File: \\NAHSTMS005\Target\chem\voa3.1\U230609.1\U060903.D
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 Client ID: CCV
 Sample Info: CCV\CCV\2;;
 Purge Volume: 5.0
 Column phase: DB624

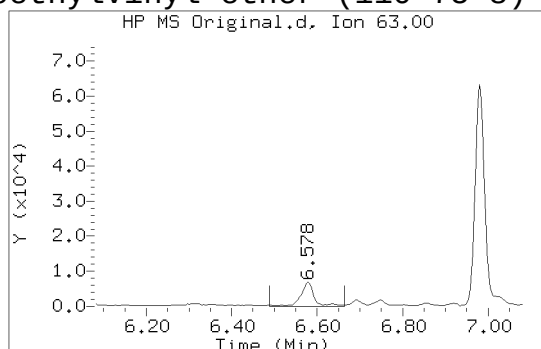
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 Operator: PC
 Column diameter: 0.18

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Inj Date : 09-JUN-2023 11:04
InstruID : VOA9.i
LabSampID : CCV

2-Chloroethylvinyl ether (110-75-8)

BEFORE

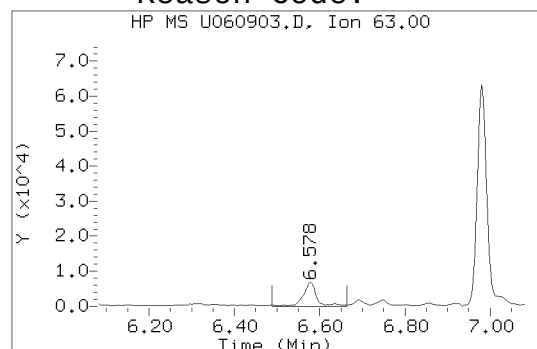
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HEIGHT
6963
13-Jun-2023
14:36
linh



AFTER

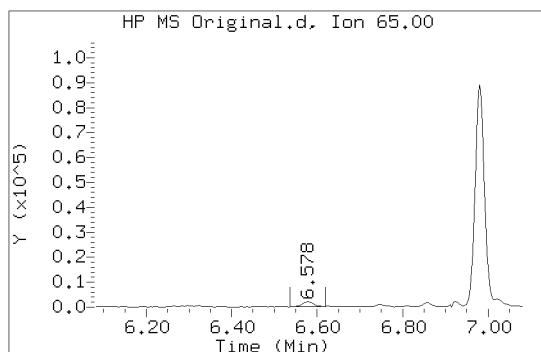
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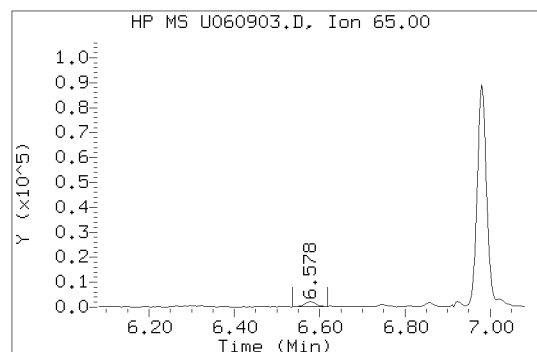
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pham



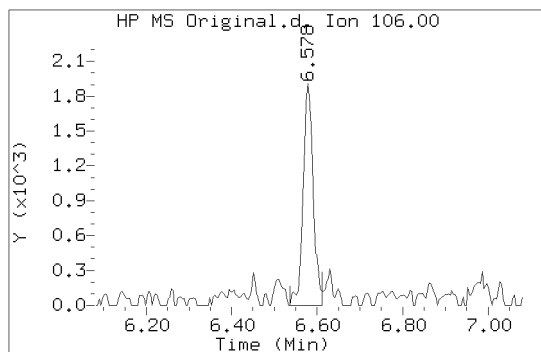
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14:36
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pham



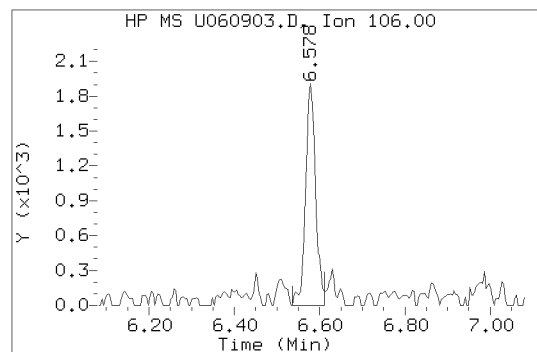
BEFORE

MASS
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13-Jun-2023
14:36
linh
pham



AFTER

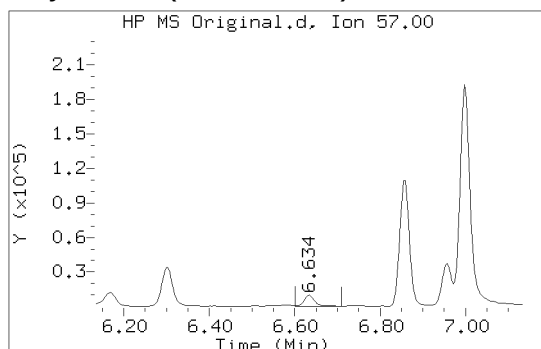
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AREA
3179
HEIGHT
1908
13-Jun-2023
14:36
linh
pham



Epichlorohydrin (106-89-8)

BEFORE

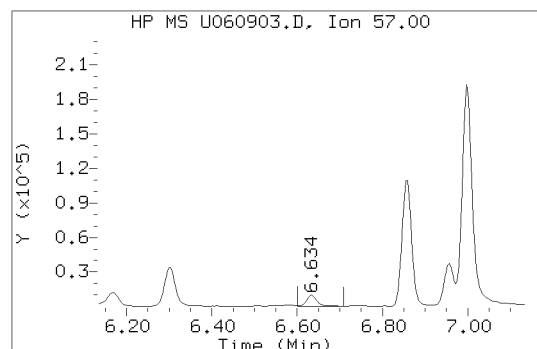
MASS
57
AREA
16507
HEIGHT
9768
13-Jun-2023
14:36
linh
pham



AFTER

MASS
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AREA
16507
HEIGHT
9768
13-Jun-2023
14:36
linh
pham

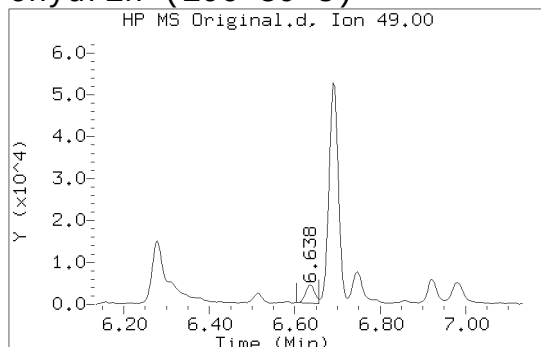
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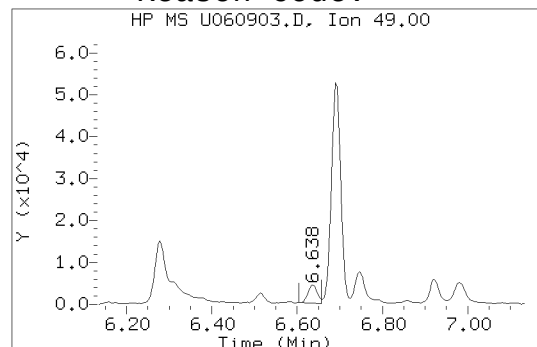
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Inj Date : 09-JUN-2023 11:04
InstruID : VOA9.i
LabSampID : CCV

Epichlorohydrin (106-89-8)**BEFORE**

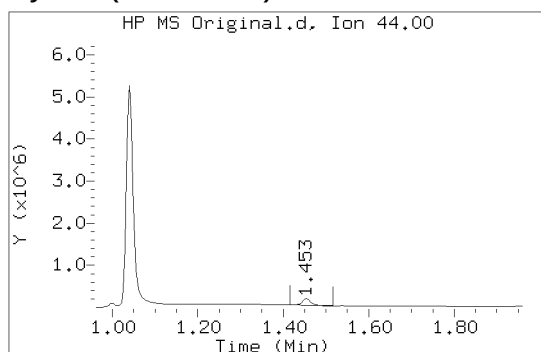
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AREA
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HEIGHT
4349
13-Jun-2023
14:36
linh
pham

**AFTER**

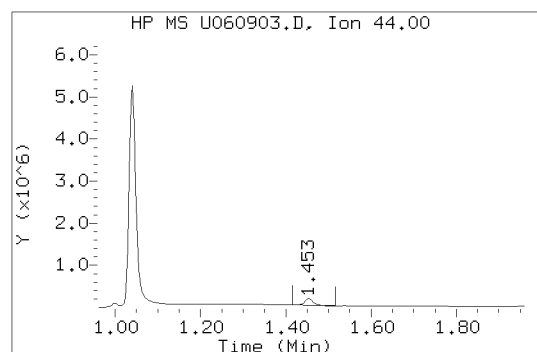
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AREA
6860
HEIGHT
4349
13-Jun-2023
14:36
linh
pham

**Acetaldehyde (75-07-0)****BEFORE**

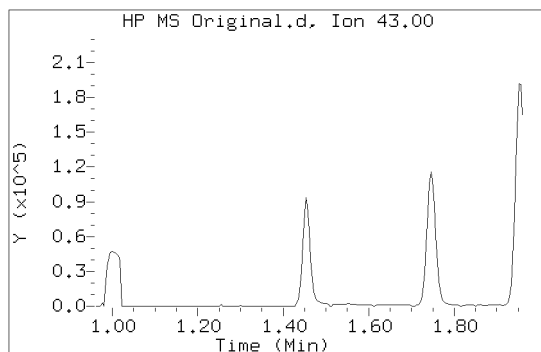
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AREA
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HEIGHT
165788
13-Jun-2023
14:36
linh
pham

**AFTER**

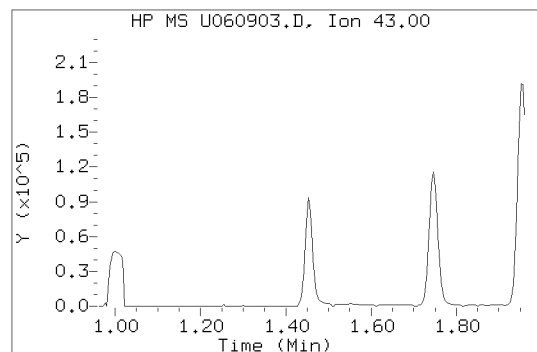
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AREA
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HEIGHT
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linh
pham

**BEFORE**

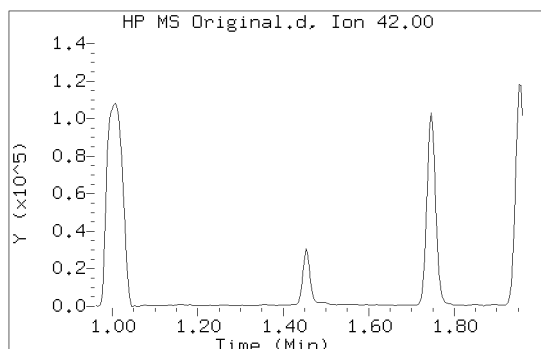
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13-Jun-2023
14:36
linh
pham

**AFTER**

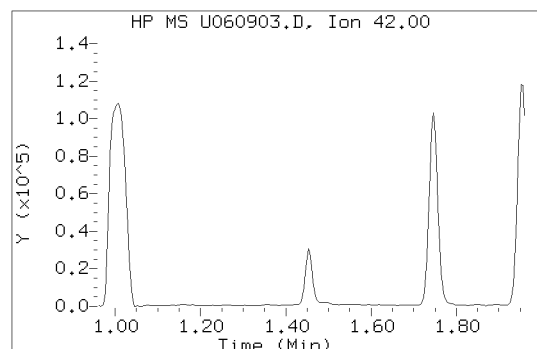
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AREA
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13-Jun-2023
14:36
linh
pham

**BEFORE**

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AREA
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HEIGHT
0
13-Jun-2023
14:36
linh
pham

**AFTER**

MASS
42
AREA
0
HEIGHT
0
13-Jun-2023
14:36
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060904.D Page 1
 Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060904.D
 Lab Smp Id: CCB Client Smp ID: CCB
 Inj Date : 09-JUN-2023 11:27
 Operator : PC Inst ID: VOA9.i
 Smp Info : CCB;CCB;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\8260C.m
 Meth Date : 13-Jun-2023 14:36 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Uf}/\text{Vo}) * 1 * \text{CpndVariable}$

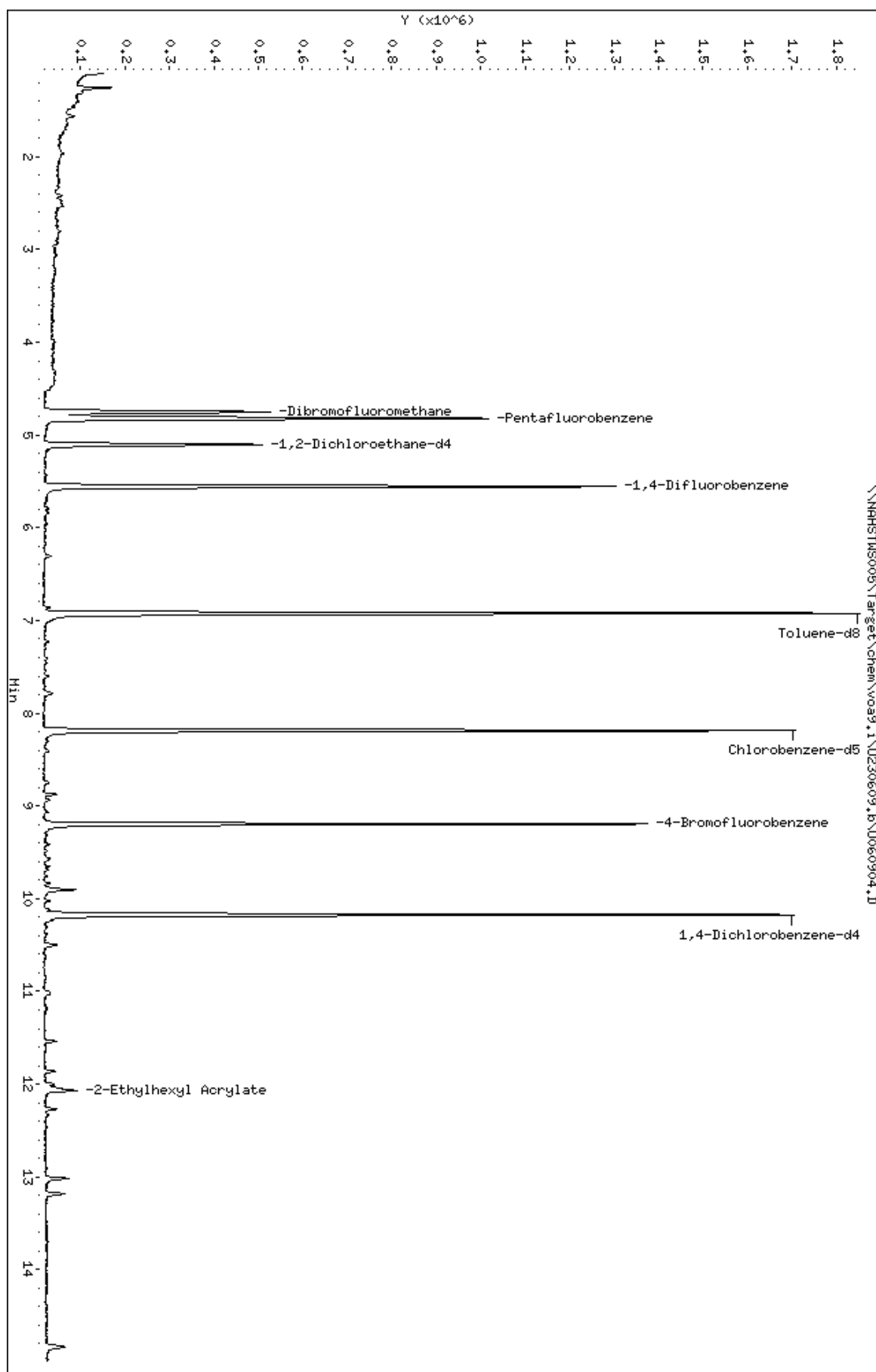
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.812	(1.000)	743528	50.0000	
\$ 30 Dibromofluoromethane	113	4.752	4.744	(0.986)	297301	47.6226	47.62
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.097	(1.058)	327931	48.5410	48.54
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	1025063	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	930126	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1134054	53.8706	53.87
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	399181	48.0930	48.09
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	468724	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230609.b\U060904.D
Date : 09-JUN-2023 11:27
Client ID: CCB
Sample Info: CCB;CCB;;
Purge Volume: 5.0
Column phase: DB624

Instrument: W09.i
Operator: PC
Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060904.D
Inj Date : 09-JUN-2023 11:27
InstruID : VOA9.i
LabSampID : CCB

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060905.D Page 1
 Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060905.D
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 Inj Date : 09-JUN-2023 11:49
 Operator : PC Inst ID: VOA9.i
 Smp Info : VLCSW-230609;VLCSW-230609;3;;LCS
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\8260C.m
 Meth Date : 13-Jun-2023 14:36 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.812	4.812	(1.000)		679948	50.0000	
2 Dichlorodifluoromethane	85		1.157	1.157	(0.240)		96172	15.3638	15.36
3 Chloromethane	50		1.288	1.292	(0.268)		174491	16.1251	16.12
5 Vinyl Chloride	62		1.370	1.370	(0.285)		118054	16.4143	16.41
6 Bromomethane	94		1.614	1.614	(0.335)		81681	21.0602	21.06
7 Chloroethane	64		1.693	1.693	(0.352)		77927	16.0846	16.08
8 Trichlorofluoromethane	101		1.891	1.891	(0.393)		146639	17.7523	17.75
9 Acrolein	56		2.259	2.259	(0.469)		13690	37.9324	37.93
10 Acetone	43		2.401	2.401	(0.499)		105137	41.8846	41.88
11 1,1-Dichloroethene	96		2.326	2.326	(0.484)		86421	16.7443	16.74
15 Iodomethane	142		2.461	2.465	(0.512)		111387	35.4788	35.47
16 Acrylonitrile	53		3.061	3.061	(0.636)		95629	37.9244	37.92
17 Methylene Chloride	84		2.787	2.791	(0.579)		112280	17.4519	17.45
18 Methyl tert-butyl ether	73		3.072	3.076	(0.639)		307234	19.4119	19.41
19 Carbon Disulfide	76		2.514	2.514	(0.522)		451298	32.7083	32.70
20 trans-1,2-Dichloroethene	96		3.053	3.053	(0.635)		93289	16.6204	16.62
21 Vinyl Acetate	43		3.601	3.601	(0.748)		652361	38.1275	38.12
22 1,1-Dichloroethane	63		3.511	3.511	(0.730)		173753	16.2890	16.28
24 2-Butanone	43		4.264	4.261	(0.886)		111620	36.0052	36.00
26 2,2-Dichloropropane	77		4.178	4.178	(0.868)		128577	18.4845	18.48



27 cis-1,2-Dichloroethene	96	4.193	4.193 (0.871)	116035	17.2801	17.28
28 Chloroform	83	4.568	4.572 (0.949)	191128	17.2156	17.21

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060905.D Page 2
 Report Date: 13-Jun-2023 14:37

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.463	4.467	(0.928)	61623	16.4059	16.40
\$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	286371	50.1780	50.17
31 1,1,1-Trichloroethane	97	4.737	4.740	(0.984)	146892	17.3598	17.35
32 1,1-Dichloropropene	75	4.917	4.920	(0.886)	133486	18.1424	18.14
33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	165250	19.0174	19.01
34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	116268	17.2032	17.20
\$ 35 1,2-Dichloroethane-d4	65	5.096	5.097	(1.059)	308688	49.9852	49.98
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	1003950	50.0000	
37 Benzene	78	5.138	5.138	(0.926)	451839	18.6774	18.67
38 Trichloroethene	130	5.786	5.786	(1.043)	128349	18.3047	18.30
39 Bromodichloromethane	83	6.277	6.277	(1.131)	139075	18.4296	18.42
41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	5397	29.5686	29.56(M)
42 1,2-Dichloropropane	63	6.007	6.011	(1.082)	123569	19.1306	19.13
44 Dibromomethane	93	6.120	6.120	(1.103)	75955	18.4040	18.40
45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	276120	39.7325	39.73
46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	165665	17.6711	17.67
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	954322	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1097963	50.8338	50.83
50 Toluene	91	6.978	6.978	(0.853)	489603	18.9156	18.91
51 trans-1,3-Dichloropropene	75	7.199	7.196	(1.297)	136138	17.4156	17.41
52 2-Hexanone	43	7.593	7.593	(0.928)	184550	38.1325	38.13
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	100443	18.6503	18.65
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	207468	18.8550	18.85
55 Dibromochloromethane	129	7.691	7.694	(0.940)	125379	19.6208	19.62
56 Tetrachloroethene	164	7.458	7.458	(0.911)	115688	18.3449	18.34
57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	123524	18.5929	18.59
58 1-Chlorohexane	55	8.197	8.197	(1.477)	86812	16.8398	16.83
59 Chlorobenzene	112	8.208	8.208	(1.003)	345933	18.7264	18.72
60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	120662	19.0044	19.00
61 Ethylbenzene	106	8.305	8.305	(1.015)	166437	19.3578	19.35
62 m,p-Xylenes	106	8.410	8.410	(1.027)	399034	39.2273	39.22
63 o-Xylene	106	8.748	8.748	(1.069)	194672	19.3718	19.37
64 Styrene	104	8.763	8.763	(1.071)	326516	20.4740	20.47
66 Bromoform	173	8.920	8.920	(1.090)	79013	18.3184	18.31
67 Isopropylbenzene	105	9.063	9.063	(1.107)	451363	18.6999	18.69
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	174388	18.6646	18.66
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	446491	52.5107	52.51
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	496711	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.363	(0.920)	153473	18.6716	18.67
73 n-Propylbenzene	91	9.411	9.411	(0.925)	469833	18.0330	18.03
74 Bromobenzene	156	9.317	9.318	(0.916)	155643	18.5713	18.57
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	326998	18.2943	18.29
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	347566	18.9770	18.97
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	384045	18.9438	18.94
78 tert-Butylbenzene	119	9.839	9.839	(0.967)	312328	17.7908	17.79
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	346371	18.5202	18.52
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	394164	17.7045	17.70
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	343021	18.3909	18.39
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	258983	18.1942	18.19
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	274809	18.1071	18.10
87 n-Butylbenzene	91	10.491	10.491	(1.031)	292425	18.3139	18.31
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	261119	18.2960	18.29



89	1,2-Dibromo-3-Chloropropane	155	11.169	11.166 (1.098)	24360	17.8671	17.86
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	180825	18.4203	18.42

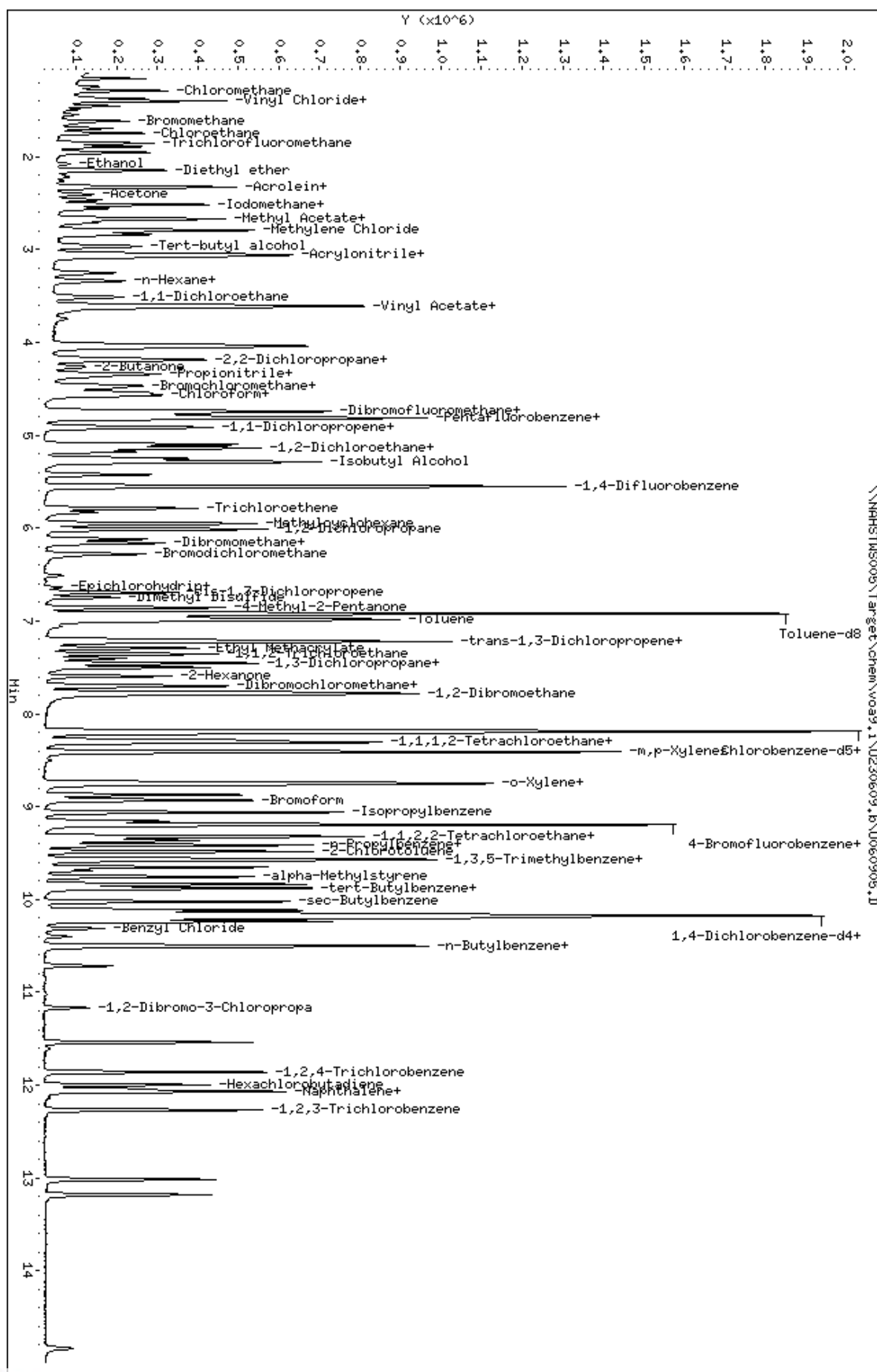
Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060905.D Page 3
 Report Date: 13-Jun-2023 14:37

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	78534	19.8099	19.80
92 Naphthalene	128	12.069	12.065	(1.186)	434342	19.0477	19.04
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	174447	18.1776	18.17
M 94 1,2-Dichloroethylene (total)	96				209324	33.9004	33.90
M 95 Xylenes (total)	106				593706	58.5991	58.59
135 1,4-Dioxane	88	6.169	6.169	(1.282)	35159	260.413	260.41
141 Cyclohexane	56	4.778	4.778	(0.993)	140734	17.2512	17.25
138 Freon TF	101	2.326	2.330	(0.484)	78358	17.1590	17.15
140 1,3-Butadiene	54	1.396	1.397	(0.290)	106171	16.4878	16.48
147 Methylcyclohexane	55	5.947	5.947	(1.072)	272958	19.5995	19.59
146 Methyl Acetate	43	2.709	2.709	(0.563)	104016	18.1680	18.16
148 Tert-Butyl alcohol	59	2.963	2.964	(0.616)	240501	379.756	379.75
149 Isopropyl Alcohol	45	2.555	2.559	(0.531)	151985	341.922	341.92
72 trans-1,4-Dichloro-2-butene	53	9.377	9.378	(1.146)	19966	18.1704	18.17
12 Isobutyl Alcohol	43	5.288	5.288	(1.099)	366484	414.837	414.83
13 Acetonitrile	39	2.664	2.667	(0.554)	143329	194.700	194.70
14 Allyl Chloride	41	2.667	2.667	(0.554)	320525	18.1569	18.15
25 Methacrylonitrile	41	4.493	4.493	(0.934)	78588	19.5626	19.56
40 Methyl Methacrylate	41	6.157	6.157	(1.280)	118858	20.3304	20.33
4 Propionitrile	54	4.335	4.336	(0.901)	185248	188.539	188.53(a)
194 Acetaldehyde	44	1.453	1.453	(0.302)	74784	79.7458	79.74(M)
131 Methyl Acrylate	55	4.365	4.366	(0.907)	139808	19.4418	19.44
49 Ethyl Methacrylate	69	7.293	7.293	(1.314)	179007	20.3405	20.34
164 Dicyclopentadiene	66	10.198	10.202	(1.003)	452042	18.6566	18.65
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	154919	18.9862	18.98
142 Tetrahydrofuran	42	4.542	4.542	(0.944)	44204	35.3169	35.31
156 Diisopropyl ether	45	3.616	3.620	(0.751)	355747	18.7636	18.76
86 Benzyl Chloride	91	10.311	10.311	(1.260)	99405	19.6811	19.68
162 Butyl acrylate	55	8.733	8.733	(1.067)	227200	20.1266	20.12
130 Ethyl Acetate	43	4.339	4.339	(0.902)	136082	22.3892	22.38
189 n-Butyl acetate	43	7.706	7.706	(0.941)	206385	18.9933	18.99
182 Epichlorohydrin	57	6.633	6.633	(1.195)	5718	68.4648	68.46(M)

QC Flag Legend

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





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 Sample Info: WLC5M-230609;WLC5M-230609;3;LCS
 Purge Volume: 5.0
 Column phase: DB624

\\NAHSTMS005\Target\chem\voa9.i\U230609.b\U060905.D

Instrument: W093.1
 Operator: PC
 Column diameter: 0.18

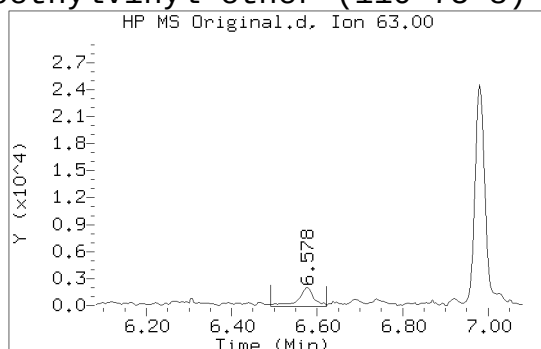


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Inj Date : 09-JUN-2023 11:49
InstruID : VOA9.i
LabSampID : VLCSW-230609

2-Chloroethylvinyl ether (110-75-8)

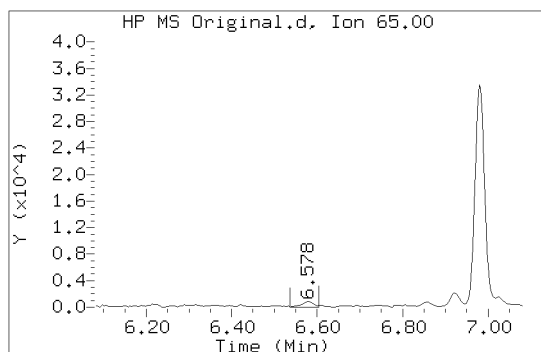
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13-Jun-2023
14:36
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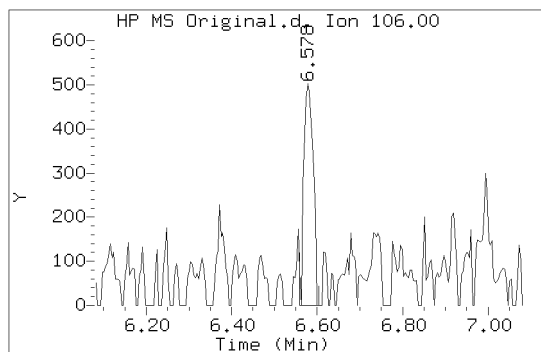
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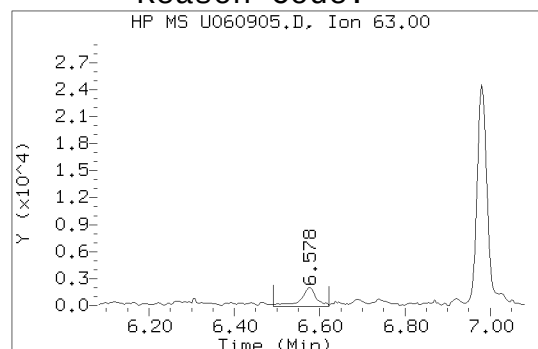
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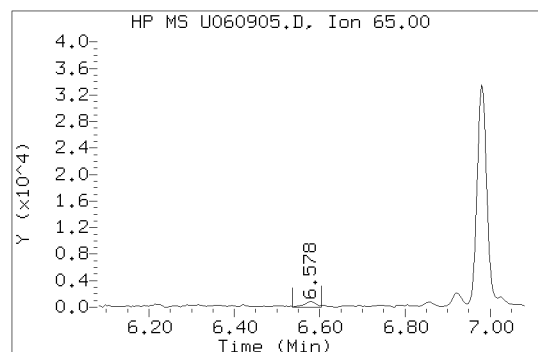
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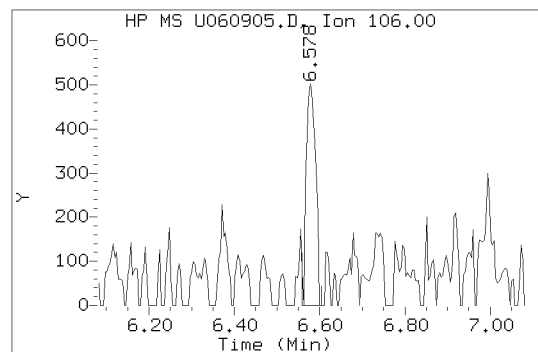
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AFTER

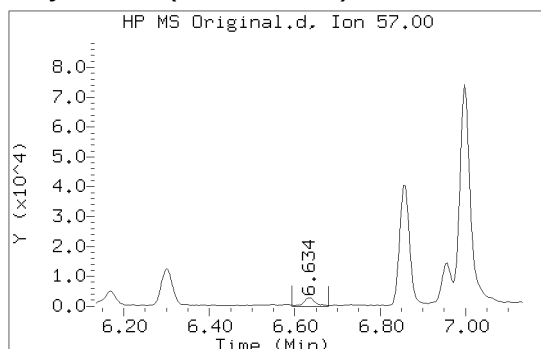
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Epichlorohydrin (106-89-8)

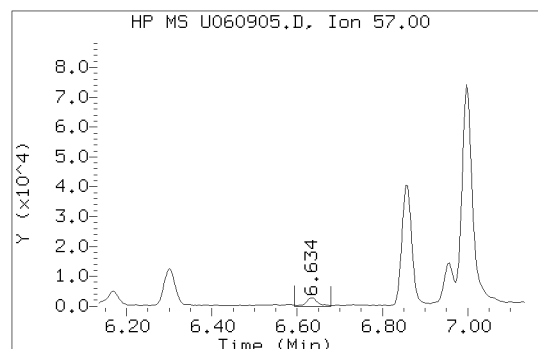
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AFTER

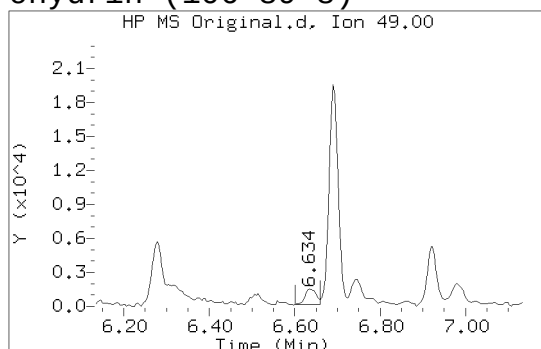
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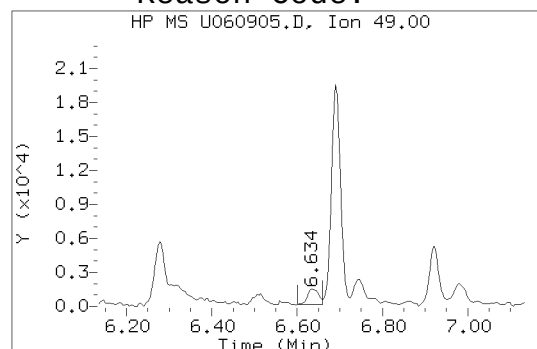
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InstruID : VOA9.i
LabSampID : VLCSW-230609

Epichlorohydrin (106-89-8)**BEFORE**

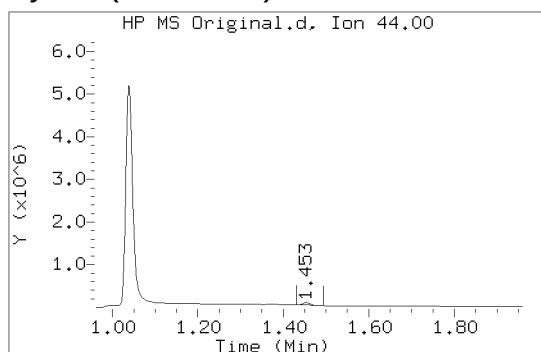
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**AFTER**

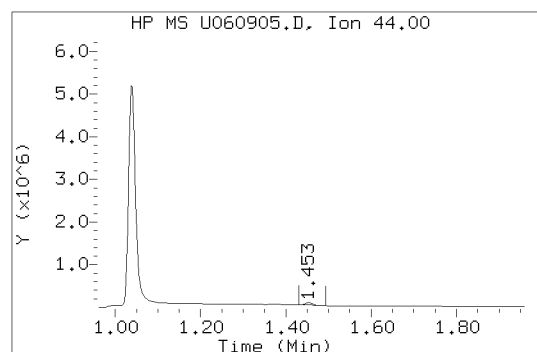
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14:36
linh
pham

**Acetaldehyde (75-07-0)****BEFORE**

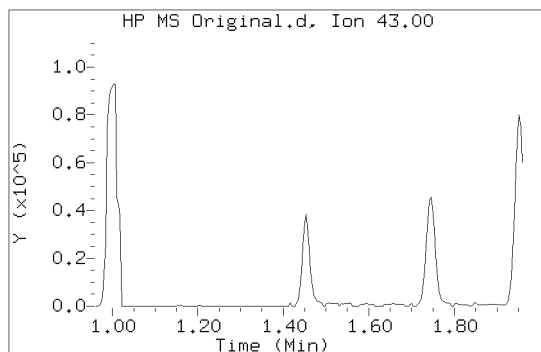
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**AFTER**

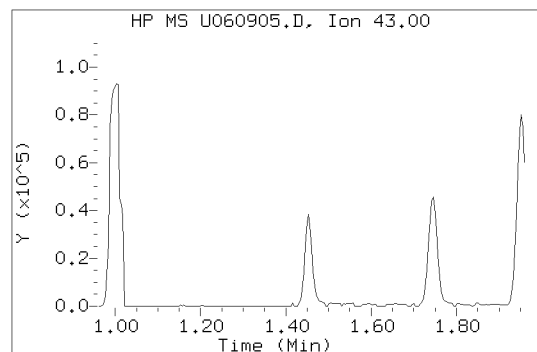
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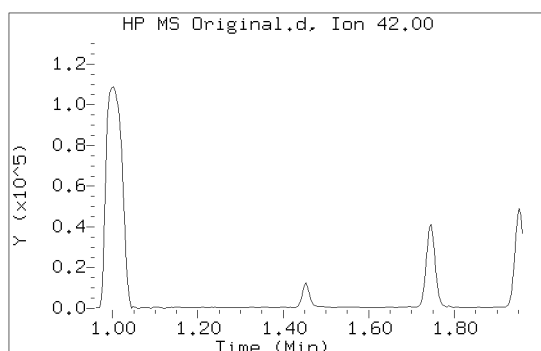
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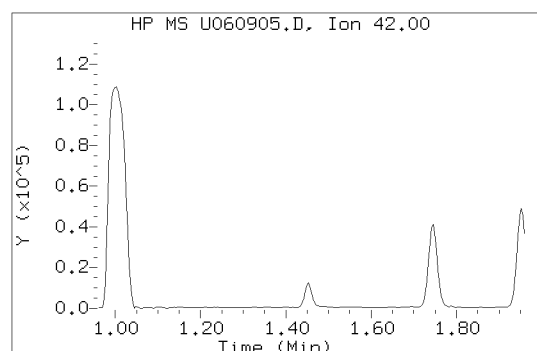
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**BEFORE**

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**AFTER**

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13-Jun-2023
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060907.D Page 1
 Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060907.D
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 Inj Date : 09-JUN-2023 12:34
 Operator : PC Inst ID: VOA9.i
 Smp Info : VBLKW-230609;VBLKW-230609;3;;BLANK
 Misc Info : V9;WATER;0;1;
 Comment :
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 Meth Date : 13-Jun-2023 14:36 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.812	(1.000)	716924	50.0000	
\$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	292451	48.5905	48.59
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.097	(1.059)	350378	53.8620	53.86
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	1020692	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	1001569	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1230942	54.3021	54.30
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	422125	47.2133	47.21
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	498989	50.0000	



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230609.b\U060907.D

Date : 09-JUN-2023 12:34

Client ID: VBLKM-230609

Sample Info: VBLKM-230609;VBLKM-230609;3;BLANK

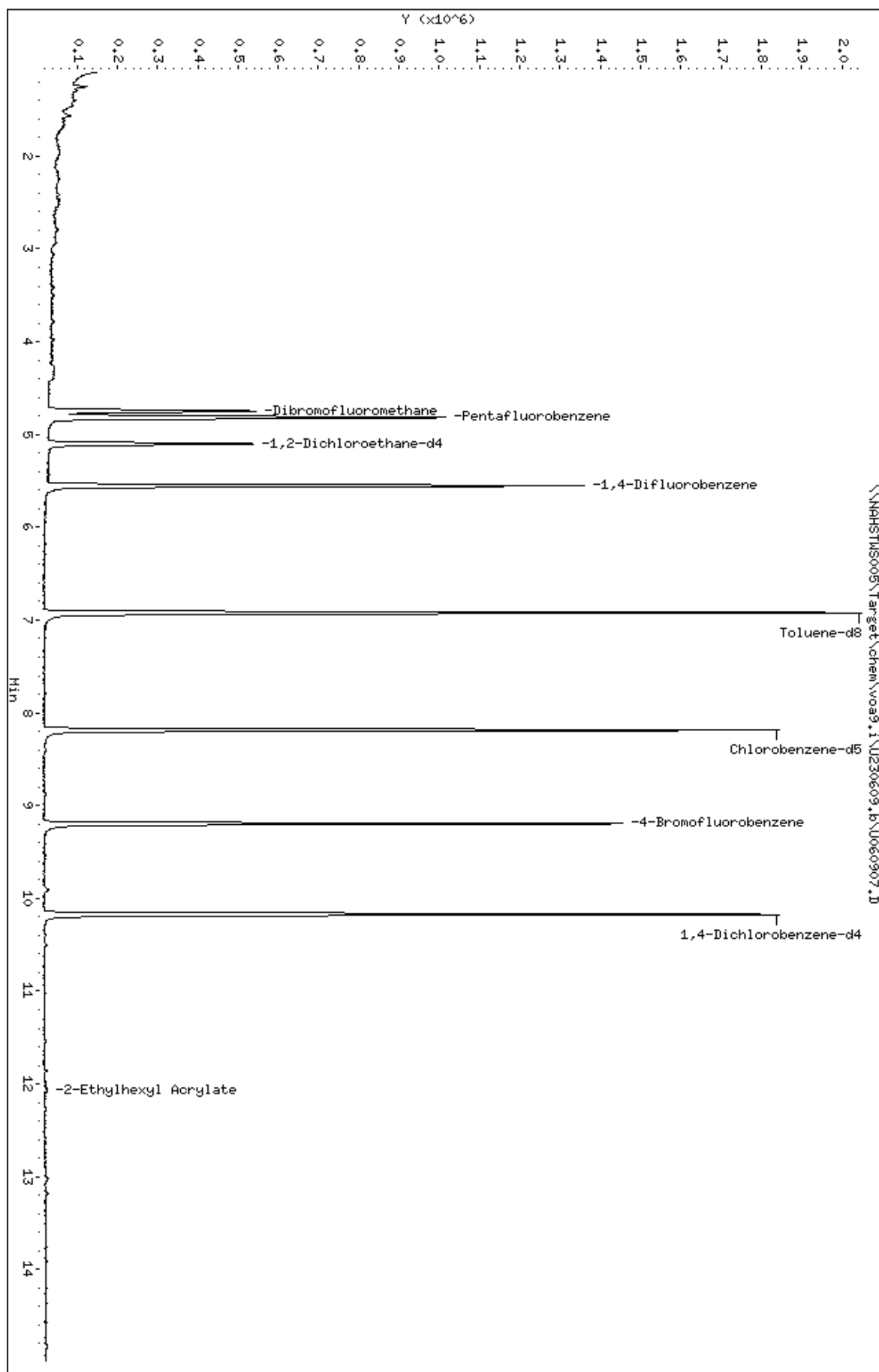
Purge Volume: 5.0

Column phase: DB624

Instrument: W093.i

Operator: PC

Column diameter: 0.18



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Inj Date : 09-JUN-2023 12:34
InstruID : VOA9.i
LabSampID : VBLKW-230609

NO MANUAL INTEGRATIONS



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 Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

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 Misc Info : V9;WATER;0;1;
 Comment :
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 Meth Date : 13-Jun-2023 14:36 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.812 (1.000)	783793	50.0000		
\$ 30 Dibromofluoromethane	113	4.752	4.744 (0.986)	314223	47.7484	47.74	
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.097 (1.058)	359840	50.5559	50.55	
* 36 1,4-Difluorobenzene	114	5.554	5.550 (1.000)	1078204	50.0000		
* 47 Chlorobenzene-d5	117	8.185	8.185 (1.000)	988696	50.0000		
\$ 48 Toluene-d8	98	6.922	6.922 (0.846)	1210223	54.0832	54.08	
\$ 69 4-Bromofluorobenzene	95	9.194	9.194 (1.123)	423890	48.0436	48.04	
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172 (1.000)	496758	50.0000		



Data File: \\NAHSTMS005\Target\chem\woa9.i\U230609.b\U060908.D

Date : 09-JUN-2023 12:56

Client ID: HS23060280-10

Sample Info: HS23060280-10;HS23060280-10;;

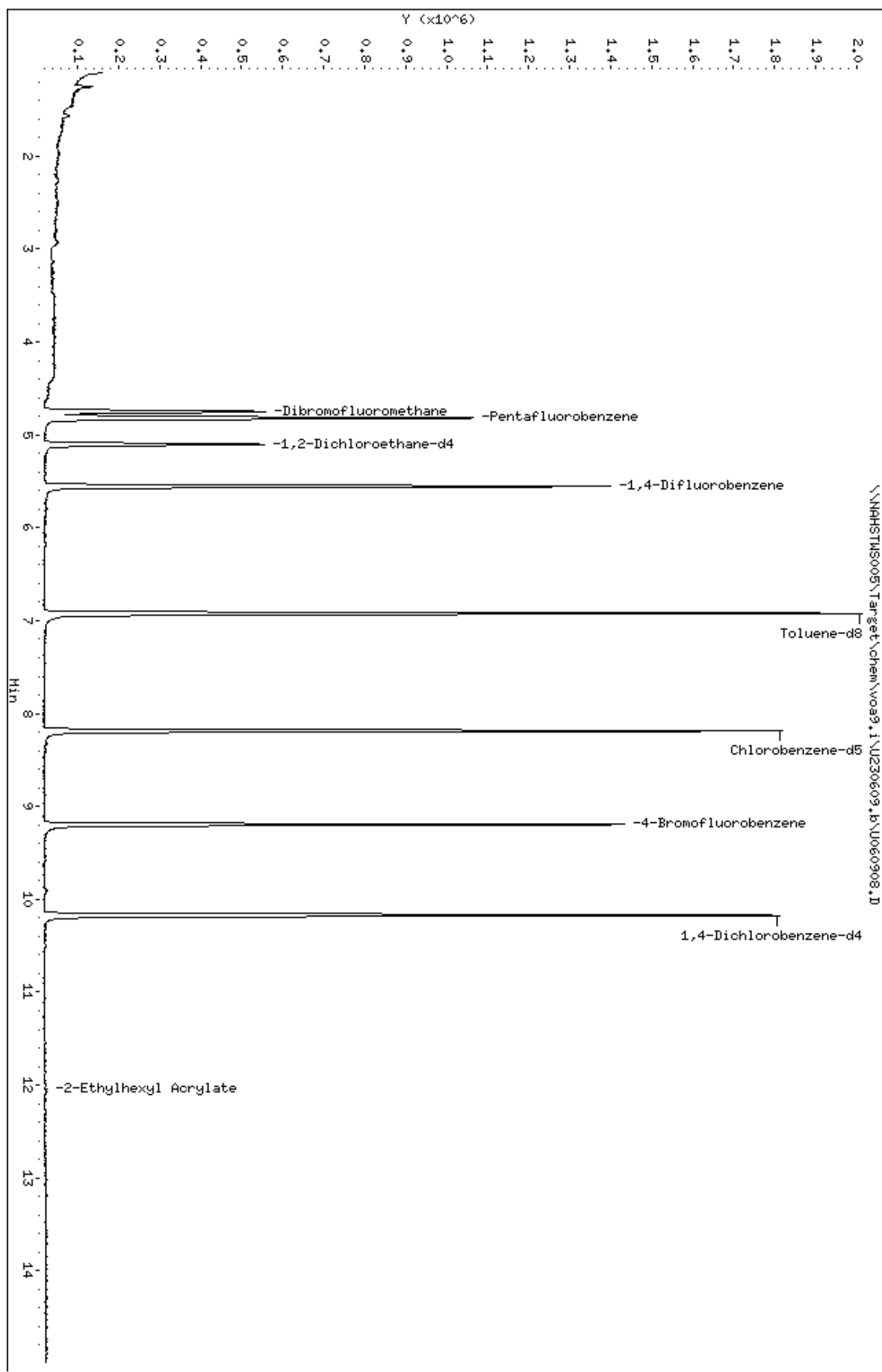
Purge Volume: 5.0

Column phase: DB624

Instrument: W093.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060908.D
Inj Date : 09-JUN-2023 12:56
InstruID : VOA9.i
LabSampID : HS23060280-10

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060909.D Page 1
 Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060909.D
 Lab Smp Id: HS23060280-09 Client Smp ID: HS23060280-09
 Inj Date : 09-JUN-2023 13:19
 Operator : PC Inst ID: VOA9.i
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 Misc Info : V9;WATER;0;1;
 Comment :
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 Meth Date : 13-Jun-2023 14:36 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.812	(1.000)	774829	50.0000	
\$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	314818	48.3965	48.39
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.097	(1.059)	354316	50.3530	50.35
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	1080377	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	983727	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1217024	54.6619	54.66
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	411575	46.8616	46.86
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	476347	50.0000	



Data File: \\NAHSTUS005\Target\chem\voa9.i\U230609.b\U060909.D

Date: 09-JUN-2023 13:19

Client ID: HS23060280-09

Sample Info: HS23060280-09\HS23060280-09.i

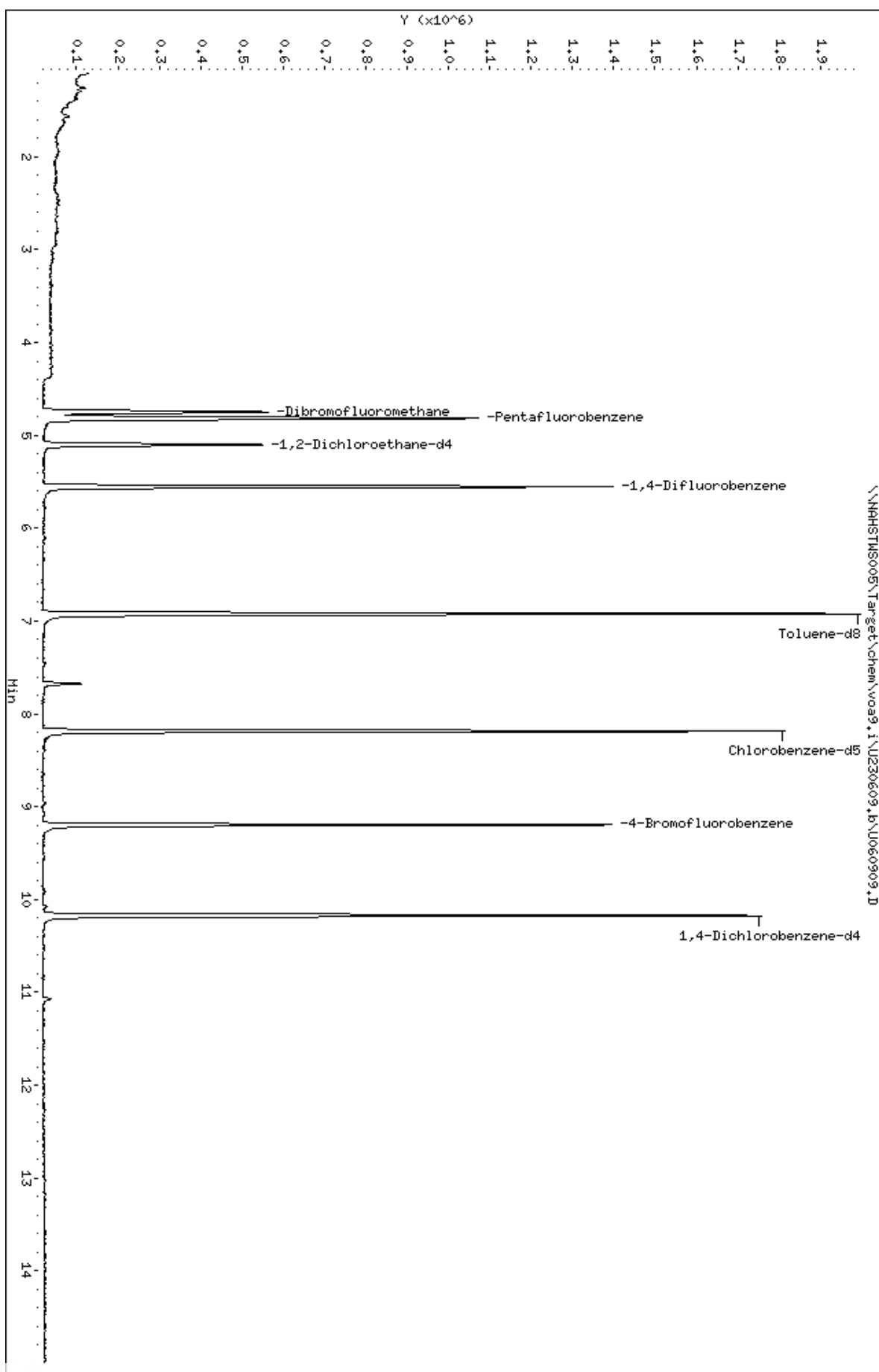
Purge Volume: 5.0

Column phase: DB624

Instrument: WDA9.i

Operator: PC

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060909.D
Inj Date : 09-JUN-2023 13:19
InstruID : VOA9.i
LabSampID : HS23060280-09

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060913.D Page 1
 Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060913.D
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 Inj Date : 09-JUN-2023 14:48
 Operator : PC Inst ID: VOA9.i
 Smp Info : HS23060280-09MS;HS23060280-09MS;3;;MS
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\8260C.m
 Meth Date : 13-Jun-2023 14:36 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 13 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168		4.819	4.812	(1.000)		691169	50.0000	
2 Dichlorodifluoromethane	85		1.168	1.157	(0.242)		91507	14.3863	14.38
3 Chloromethane	50		1.299	1.292	(0.270)		207747	19.1177	19.11
5 Vinyl Chloride	62		1.381	1.370	(0.287)		141134	19.3048	19.30
6 Bromomethane	94		1.621	1.614	(0.337)		90047	22.9957	22.99
7 Chloroethane	64		1.704	1.693	(0.354)		97082	19.7130	19.71
8 Trichlorofluoromethane	101		1.899	1.891	(0.394)		205476	24.4714	24.47
9 Acrolein	56		2.270	2.259	(0.471)		12807	34.9097	34.90
10 Acetone	43		2.412	2.401	(0.501)		86053	32.6136	32.61
11 1,1-Dichloroethene	96		2.337	2.326	(0.485)		116469	22.1999	22.19
15 Iodomethane	142		2.472	2.465	(0.513)		109400	34.6246	34.62
16 Acrylonitrile	53		3.068	3.061	(0.637)		111001	43.3059	43.30
17 Methylene Chloride	84		2.798	2.791	(0.581)		136891	21.1367	21.13
18 Methyl tert-butyl ether	73		3.083	3.076	(0.640)		360991	22.4381	22.43
19 Carbon Disulfide	76		2.525	2.514	(0.524)		620984	44.2758	44.27
20 trans-1,2-Dichloroethene	96		3.061	3.053	(0.635)		118716	20.8071	20.80
21 Vinyl Acetate	43		3.612	3.601	(0.750)		706522	40.6226	40.62
22 1,1-Dichloroethane	63		3.518	3.511	(0.730)		219662	20.2585	20.25
24 2-Butanone	43		4.268	4.261	(0.886)		106548	33.8112	33.81
26 2,2-Dichloropropane	77		4.185	4.178	(0.869)		162289	22.8559	22.85



27 cis-1,2-Dichloroethene	96	4.200	4.193 (0.872)	143656	21.0461	21.04
28 Chloroform	83	4.575	4.572 (0.949)	222539	19.7195	19.71

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060913.D Page 2
 Report Date: 13-Jun-2023 14:37

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
29 Bromochloromethane	128	4.470	4.467 (0.928)		68747	18.0054	18.00	
\$ 30 Dibromofluoromethane	113	4.751	4.744 (0.986)		289912	49.9725	49.97	
31 1,1,1-Trichloroethane	97	4.744	4.740 (0.984)		185943	21.6181	21.61	
32 1,1-Dichloropropene	75	4.924	4.920 (0.887)		165852	23.3717	23.37	
33 1,2-Dichloroethane	62	5.179	5.175 (0.933)		181861	21.7000	21.70	
34 Carbon Tetrachloride	117	4.913	4.909 (0.885)		155629	23.8754	23.87	
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.097 (1.058)		342628	54.6431	54.64	
* 36 1,4-Difluorobenzene	114	5.554	5.550 (1.000)		968279	50.0000		
37 Benzene	78	5.141	5.138 (0.926)		479596	20.5551	20.55	
38 Trichloroethene	130	5.790	5.786 (1.043)		141840	20.9740	20.97	
39 Bromodichloromethane	83	6.281	6.277 (1.131)		152473	20.9494	20.94	
42 1,2-Dichloropropane	63	6.011	6.011 (1.082)		125129	20.0858	20.08	
44 Dibromomethane	93	6.120	6.120 (1.102)		82160	20.6409	20.64	
45 4-Methyl-2-Pentanone	43	6.858	6.855 (0.838)		274618	38.8013	38.80	
46 cis-1,3-Dichloropropene	75	6.693	6.690 (1.205)		180181	19.6834	19.68	
* 47 Chlorobenzene-d5	117	8.185	8.185 (1.000)		971910	50.0000		
\$ 48 Toluene-d8	98	6.922	6.922 (0.846)		1224932	55.6860	55.68	
50 Toluene	91	6.982	6.978 (0.853)		589871	22.3770	22.37	
51 trans-1,3-Dichloropropene	75	7.199	7.196 (1.296)		145918	19.1293	19.12	
52 2-Hexanone	43	7.593	7.593 (0.928)		177912	36.0957	36.09	
53 1,1,2-Trichloroethane	83	7.357	7.357 (0.899)		111902	20.4020	20.40	
54 1,3-Dichloropropane	76	7.499	7.499 (0.916)		232540	20.7511	20.75	
55 Dibromochloromethane	129	7.694	7.694 (0.940)		131918	20.2705	20.27	
56 Tetrachloroethene	164	7.458	7.458 (0.911)		158651	24.7024	24.70	
57 1,2-Dibromoethane	107	7.788	7.784 (0.951)		134293	19.8481	19.84	
58 1-Chlorohexane	55	8.197	8.197 (1.476)		128699	25.8847	25.88	
59 Chlorobenzene	112	8.212	8.208 (1.003)		404527	21.5020	21.50	
60 1,1,1,2-Tetrachloroethane	131	8.286	8.283 (1.012)		137498	21.2642	21.26	
61 Ethylbenzene	106	8.309	8.305 (1.015)		200244	22.8683	22.86	
62 m,p-Xylenes	106	8.410	8.410 (1.027)		482360	46.5606	46.56	
63 o-Xylene	106	8.748	8.748 (1.069)		231182	22.5886	22.58	
64 Styrene	104	8.763	8.763 (1.071)		363646	22.3895	22.38	
66 Bromoform	173	8.920	8.920 (1.090)		86452	19.6803	19.68	
67 Isopropylbenzene	105	9.062	9.063 (1.107)		600569	24.4312	24.43	
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329 (0.917)		179779	18.7642	18.76	
\$ 69 4-Bromofluorobenzene	95	9.194	9.194 (1.123)		431423	49.7740	49.77	
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172 (1.000)		509349	50.0000		
71 1,2,3-Trichloropropane	75	9.362	9.363 (0.920)		156309	18.5448	18.54	
73 n-Propylbenzene	91	9.411	9.411 (0.925)		627652	23.4927	23.49	
74 Bromobenzene	156	9.317	9.318 (0.916)		173228	20.1567	20.15	
75 1,3,5-Trimethylbenzene	105	9.561	9.561 (0.940)		398682	21.7513	21.75	
76 2-Chlorotoluene	91	9.482	9.482 (0.932)		411554	21.9132	21.91	
77 4-Chlorotoluene	91	9.576	9.576 (0.941)		457951	22.0288	22.02	
78 tert-Butylbenzene	119	9.838	9.839 (0.967)		422519	23.4704	23.47	
79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)		403697	21.0498	21.04	
81 sec-Butylbenzene	105	10.022	10.022 (0.985)		538693	23.5958	23.59	
82 p-Isopropyltoluene	119	10.146	10.146 (0.997)		428605	22.4093	22.40	
83 1,3-Dichlorobenzene	146	10.116	10.116 (0.994)		299341	20.5076	20.50	
84 1,4-Dichlorobenzene	146	10.191	10.191 (1.002)		315749	20.2885	20.28	
87 n-Butylbenzene	91	10.494	10.491 (1.032)		381416	23.2945	23.29	
88 1,2-Dichlorobenzene	146	10.506	10.506 (1.033)		298054	20.3658	20.36	
89 1,2-Dibromo-3-Chloropropane	155	11.169	11.166 (1.098)		25526	18.2578	18.25	



90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	199197	19.7883	19.78
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	94132	23.1553	23.15

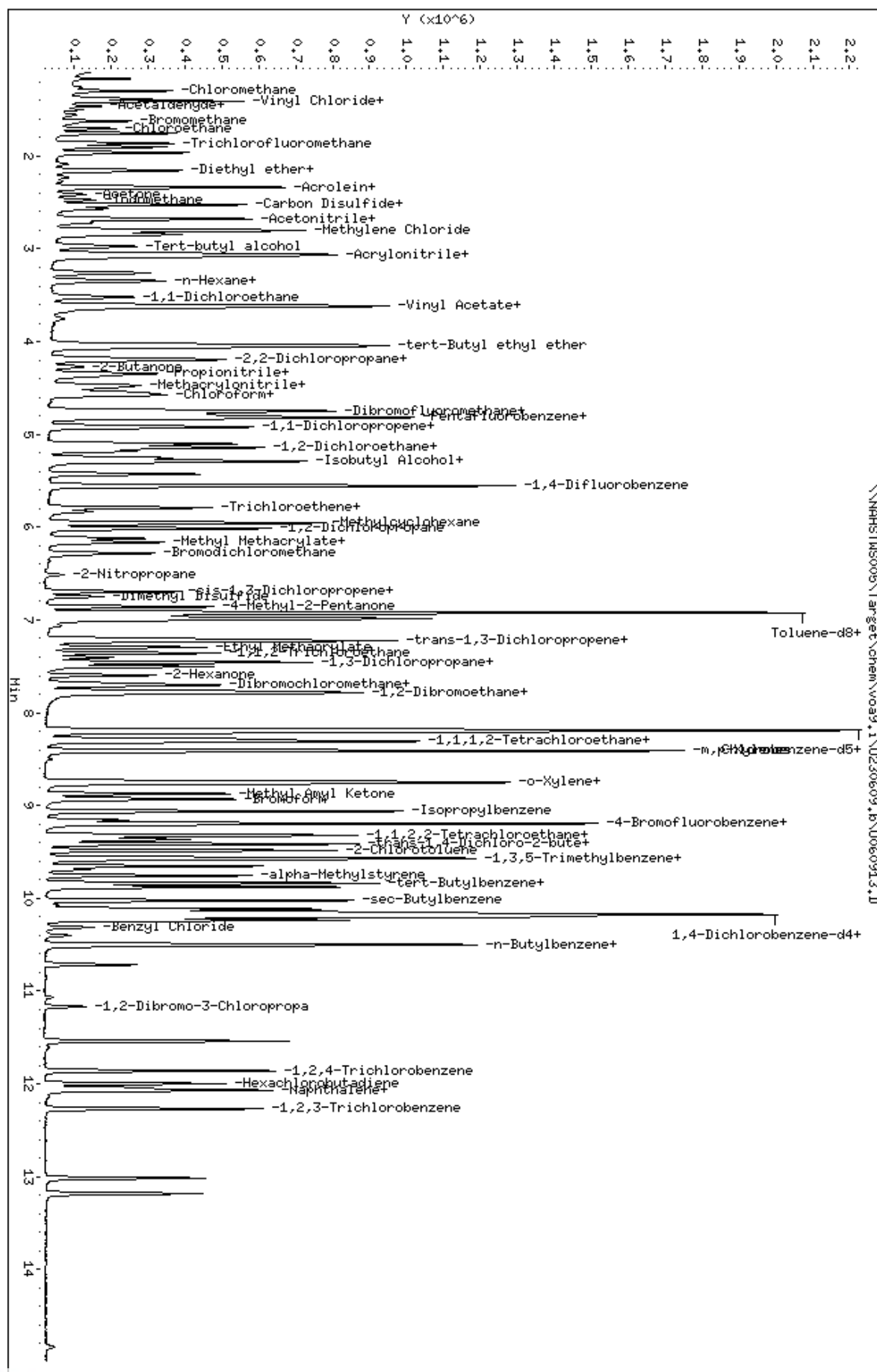
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 Report Date: 13-Jun-2023 14:37

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
92 Naphthalene	128	12.069	12.065	(1.186)	445899	19.0694	19.06
93 1,2,3-Trichlorobenzene	180	12.271	12.268	(1.206)	189263	19.2322	19.23
M 94 1,2-Dichloroethylene (total)	96				262372	41.8532	41.85
M 95 Xylenes (total)	106				713542	69.1492	69.14
135 1,4-Dioxane	88	6.172	6.169	(1.281)	33604	244.855	244.85
141 Cyclohexane	56	4.785	4.778	(0.993)	183961	22.0751	22.07
138 Freon TF	101	2.337	2.330	(0.485)	114789	24.7286	24.72
140 1,3-Butadiene	54	1.408	1.397	(0.292)	132125	20.1852	20.18
147 Methylcyclohexane	55	5.951	5.947	(1.072)	336244	25.0332	25.03
146 Methyl Acetate	43	2.716	2.709	(0.564)	110871	19.0510	19.05
148 Tert-Butyl alcohol	59	2.971	2.964	(0.617)	254368	395.333	395.33
149 Isopropyl Alcohol	45	2.566	2.559	(0.533)	166612	368.743	368.74
72 trans-1,4-Dichloro-2-butene	53	9.381	9.378	(1.146)	20289	18.1302	18.13
12 Isobutyl Alcohol	43	5.291	5.288	(1.098)	397918	443.106	443.10
13 Acetonitrile	39	2.675	2.667	(0.555)	182502	243.889	243.88
14 Allyl Chloride	41	2.675	2.667	(0.555)	408209	22.7485	22.74
25 Methacrylonitrile	41	4.500	4.493	(0.934)	81068	19.8523	19.85
40 Methyl Methacrylate	41	6.161	6.157	(1.278)	126667	21.3143	21.31
4 Propionitrile	54	4.343	4.336	(0.901)	195812	196.056	196.05(a)
194 Acetaldehyde	44	1.460	1.453	(0.303)	61966	65.0046	65.00(M)
131 Methyl Acrylate	55	4.373	4.366	(0.907)	147585	20.1901	20.19(M)
49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	200887	23.6676	23.66
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	581343	23.3977	23.39
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	160068	19.1036	19.10
142 Tetrahydrofuran	42	4.549	4.542	(0.944)	47435	37.4145	37.41
156 Diisopropyl ether	45	3.623	3.620	(0.752)	440120	22.8369	22.83
86 Benzyl Chloride	91	10.311	10.311	(1.260)	89965	17.8758	17.87
162 Butyl acrylate	55	8.736	8.733	(1.067)	241968	21.0470	21.04
130 Ethyl Acetate	43	4.347	4.339	(0.902)	134751	21.8103	21.81
189 n-Butyl acetate	43	7.709	7.706	(0.942)	217415	19.6463	19.64(M)
182 Epichlorohydrin	57	6.637	6.633	(1.195)	3416	46.3137	46.31

QC Flag Legend

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





Data File: \\NAHSTMS005\Target\chem\voa9.i\U230609.b\U060913.D
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 Client ID: HS23060280-09MS
 Sample Info: HS23060280-09MS;HS23060280-09MS;3;MS
 Purge Volume: 5.0
 Column phase: DB624

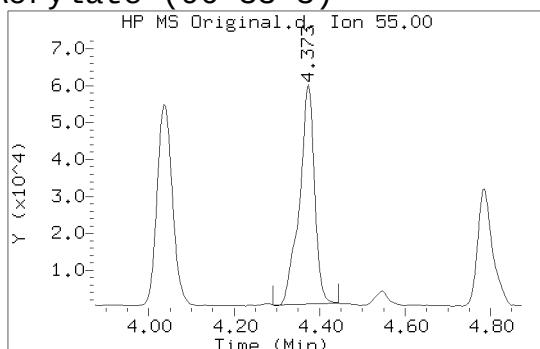
Instrument: VOA9.i
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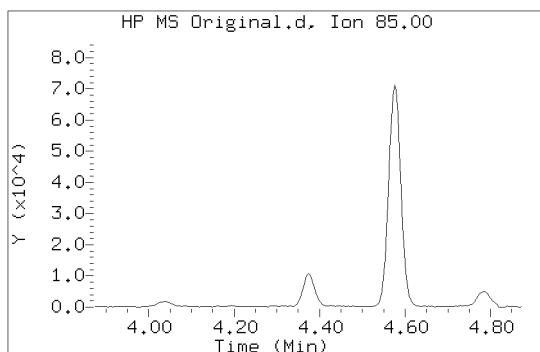
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Inj Date : 09-JUN-2023 14:48
InstruID : VOA9.i
LabSampID : HS23060280-09MS

Methyl Acrylate (96-33-3)**BEFORE**

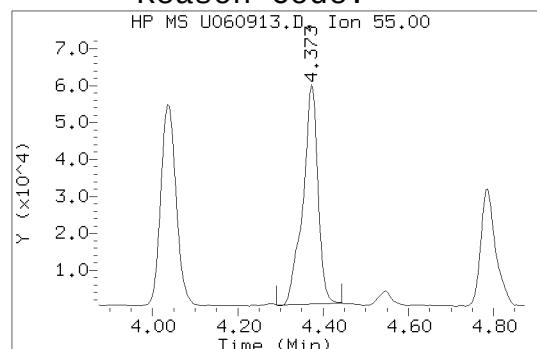
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13-Jun-2023
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**BEFORE**

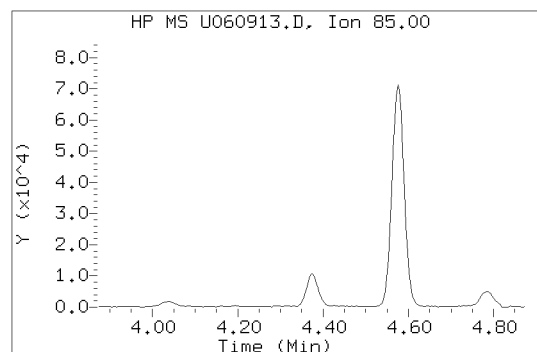
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HEIGHT
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linh
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**AFTER**

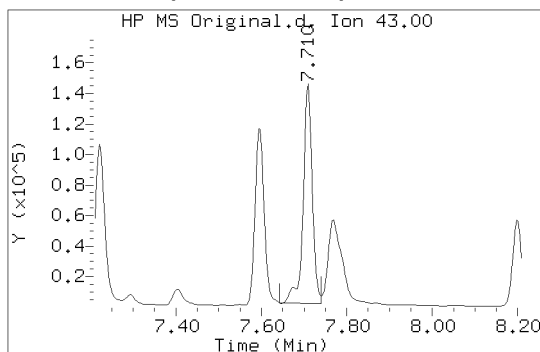
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HEIGHT
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13-Jun-2023
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**AFTER**

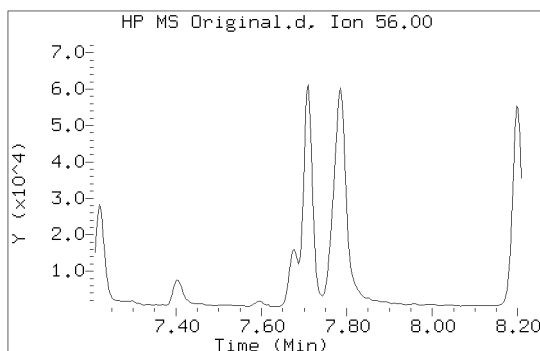
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AREA
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HEIGHT
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13-Jun-2023
14:36
linh
pham

**n-Butyl acetate (123-86-4)****BEFORE**

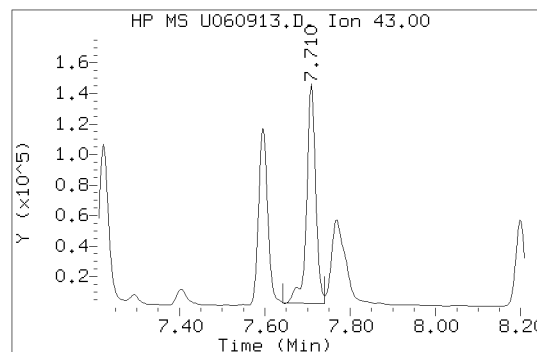
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**BEFORE**

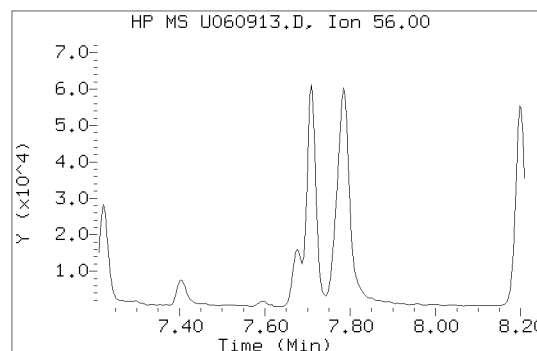
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13-Jun-2023
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linh
pham

**AFTER**

MASS
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217415
HEIGHT
143744
13-Jun-2023
14:36
linh
pham

**AFTER**

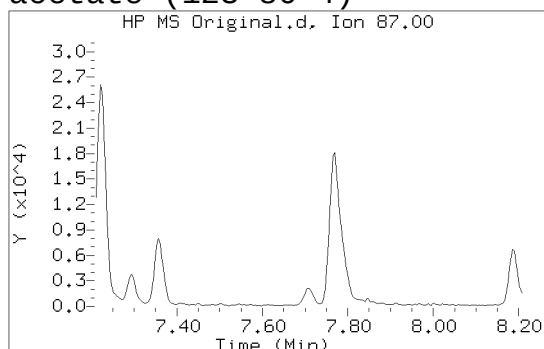
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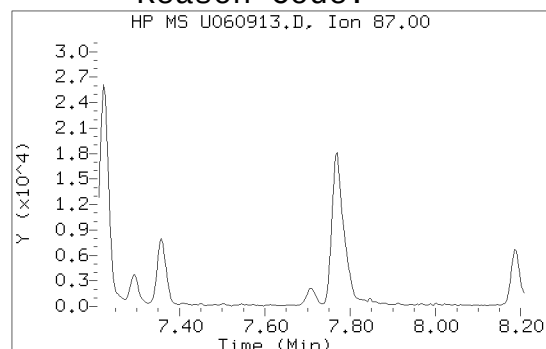
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Inj Date : 09-JUN-2023 14:48
InstruID : VOA9.i
LabSampID : HS23060280-09MS

n-Butyl acetate (123-86-4)**BEFORE**

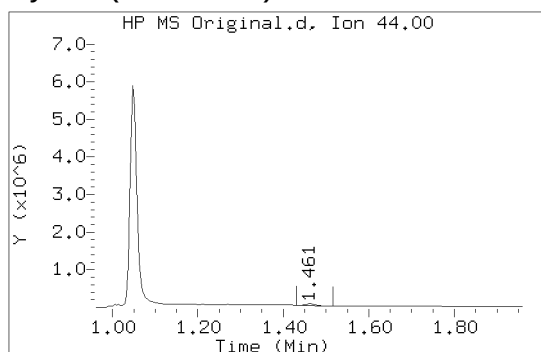
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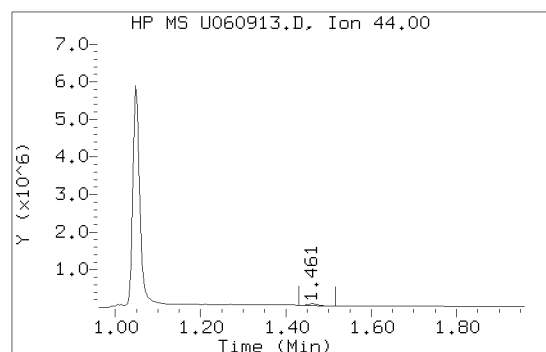
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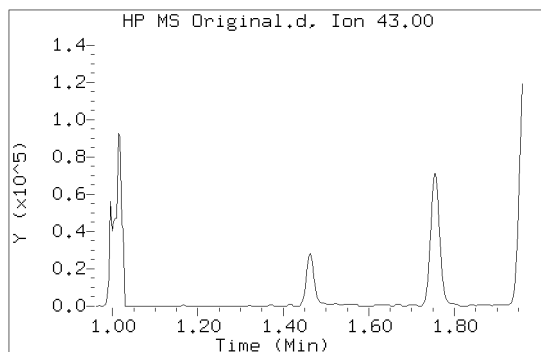
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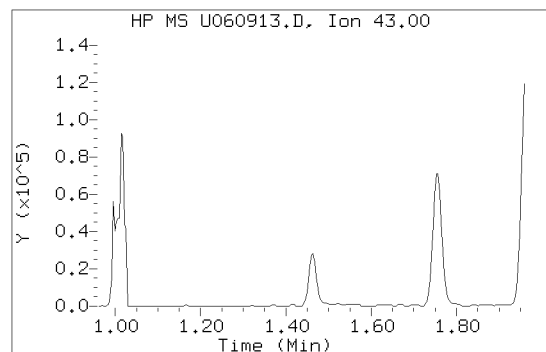
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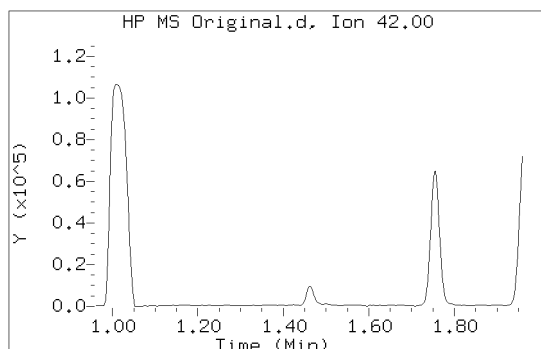
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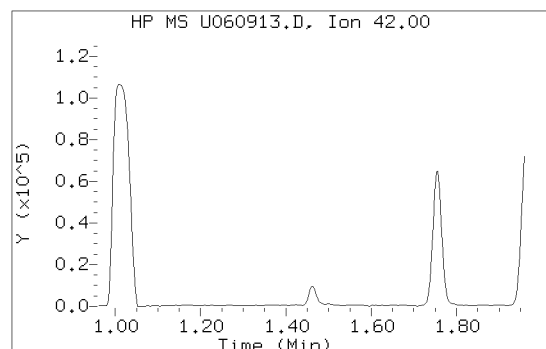
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**BEFORE**

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**AFTER**

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13-Jun-2023
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060914.D Page 1
 Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060914.D
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 Inj Date : 09-JUN-2023 15:11
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 Smp Info : HS23060280-09MSD;HS23060280-09MSD;3;;MSD
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 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 13 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

		QUANT SIG				CONCENTRATIONS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168	4.819	4.812	(1.000)	772335	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.157	(0.242)	89782	12.6415	12.64
3 Chloromethane	50	1.303	1.292	(0.270)	194520	15.8006	15.80
5 Vinyl Chloride	62	1.381	1.370	(0.287)	142274	17.4156	17.41
6 Bromomethane	94	1.625	1.614	(0.337)	89454	20.2394	20.23
7 Chloroethane	64	1.704	1.693	(0.354)	98697	17.9348	17.93
8 Trichlorofluoromethane	101	1.903	1.891	(0.395)	202577	21.5907	21.59
9 Acrolein	56	2.270	2.259	(0.471)	13411	32.7144	32.71
10 Acetone	43	2.416	2.401	(0.501)	93504	31.5558	31.55
11 1,1-Dichloroethene	96	2.337	2.326	(0.485)	110662	18.8763	18.87
15 Iodomethane	142	2.476	2.465	(0.514)	123040	34.7831	34.78
16 Acrylonitrile	53	3.072	3.061	(0.638)	116226	40.5791	40.57
17 Methylene Chloride	84	2.802	2.791	(0.582)	125328	17.1320	17.13
18 Methyl tert-butyl ether	73	3.087	3.076	(0.641)	365415	20.3261	20.32
19 Carbon Disulfide	76	2.529	2.514	(0.525)	602638	38.4522	38.45
20 trans-1,2-Dichloroethene	96	3.065	3.053	(0.636)	121722	19.0919	19.09
21 Vinyl Acetate	43	3.612	3.601	(0.750)	724912	37.2998	37.29
22 1,1-Dichloroethane	63	3.522	3.511	(0.731)	219652	18.1287	18.12
24 2-Butanone	43	4.272	4.261	(0.886)	110484	31.3756	31.37
26 2,2-Dichloropropane	77	4.189	4.178	(0.869)	158111	19.9784	19.97



27 cis-1,2-Dichloroethene	96	4.200	4.193 (0.872)	131553	17.2475	17.24
28 Chloroform	83	4.575	4.572 (0.949)	232092	18.4047	18.40

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060914.D Page 2
 Report Date: 13-Jun-2023 14:37

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
29 Bromochloromethane	128	4.474	4.467 (0.928)		76105	17.8378	17.83	
\$ 30 Dibromofluoromethane	113	4.752	4.744 (0.986)		315334	48.6339	48.63	
31 1,1,1-Trichloroethane	97	4.748	4.740 (0.985)		190869	19.8587	19.85	
32 1,1-Dichloropropene	75	4.924	4.920 (0.886)		174388	22.4176	22.41	
33 1,2-Dichloroethane	62	5.179	5.175 (0.932)		183728	19.9985	19.99	
34 Carbon Tetrachloride	117	4.916	4.909 (0.885)		161938	22.6627	22.66	
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.097 (1.058)		345045	49.1781	49.17	
* 36 1,4-Difluorobenzene	114	5.558	5.550 (1.000)		1061447	50.0000		
37 Benzene	78	5.141	5.138 (0.925)		526485	20.5842	20.58	
38 Trichloroethene	130	5.790	5.786 (1.042)		155201	20.9353	20.93	
39 Bromodichloromethane	83	6.281	6.277 (1.130)		156140	19.5702	19.57	
42 1,2-Dichloropropane	63	6.011	6.011 (1.082)		137429	20.1239	20.12	
44 Dibromomethane	93	6.124	6.120 (1.102)		85704	19.6414	19.64	
45 4-Methyl-2-Pentanone	43	6.858	6.855 (0.838)		277389	39.0429	39.04	
46 cis-1,3-Dichloropropene	75	6.693	6.690 (1.204)		184295	18.4937	18.49	
* 47 Chlorobenzene-d5	117	8.185	8.185 (1.000)		975642	50.0000		
\$ 48 Toluene-d8	98	6.922	6.922 (0.846)		1222538	55.3646	55.36	
50 Toluene	91	6.982	6.978 (0.853)		582606	22.0168	22.01	
51 trans-1,3-Dichloropropene	75	7.199	7.196 (1.295)		144423	17.4678	17.46	
52 2-Hexanone	43	7.593	7.593 (0.928)		180681	36.5173	36.51	
53 1,1,2-Trichloroethane	83	7.357	7.357 (0.899)		110286	20.0304	20.03	
54 1,3-Dichloropropane	76	7.499	7.499 (0.916)		228549	20.3170	20.31	
55 Dibromochloromethane	129	7.694	7.694 (0.940)		133682	20.4630	20.46	
56 Tetrachloroethene	164	7.458	7.458 (0.911)		156726	24.3093	24.30	
57 1,2-Dibromoethane	107	7.788	7.784 (0.951)		133121	19.5996	19.59	
58 1-Chlorohexane	55	8.197	8.197 (1.475)		121244	22.2449	22.24	
59 Chlorobenzene	112	8.212	8.208 (1.003)		394123	20.8689	20.86	
60 1,1,1,2-Tetrachloroethane	131	8.287	8.283 (1.012)		138048	21.2676	21.26	
61 Ethylbenzene	106	8.309	8.305 (1.015)		195040	22.1888	22.18	
62 m,p-Xylenes	106	8.410	8.410 (1.027)		480070	46.1623	46.16	
63 o-Xylene	106	8.748	8.748 (1.069)		226787	22.0744	22.07	
64 Styrene	104	8.763	8.763 (1.071)		365402	22.4116	22.41	
66 Bromoform	173	8.920	8.920 (1.090)		83818	19.0077	19.00	
67 Isopropylbenzene	105	9.063	9.063 (1.107)		586332	23.7608	23.76	
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329 (0.917)		182800	19.2030	19.20	
\$ 69 4-Bromofluorobenzene	95	9.194	9.194 (1.123)		429985	49.4118	49.41	
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172 (1.000)		506071	50.0000		
71 1,2,3-Trichloropropane	75	9.362	9.363 (0.920)		158186	18.8891	18.88	
73 n-Propylbenzene	91	9.411	9.411 (0.925)		619170	23.3253	23.32	
74 Bromobenzene	156	9.317	9.318 (0.916)		171467	20.0810	20.08	
75 1,3,5-Trimethylbenzene	105	9.561	9.561 (0.940)		402366	22.0945	22.09	
76 2-Chlorotoluene	91	9.482	9.482 (0.932)		405646	21.7385	21.73	
77 4-Chlorotoluene	91	9.576	9.576 (0.941)		453928	21.9768	21.97	
78 tert-Butylbenzene	119	9.839	9.839 (0.967)		414136	23.1537	23.15	
79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)		413706	21.7115	21.71	
81 sec-Butylbenzene	105	10.022	10.022 (0.985)		532267	23.4654	23.46	
82 p-Isopropyltoluene	119	10.146	10.146 (0.997)		430400	22.6489	22.64	
83 1,3-Dichlorobenzene	146	10.116	10.116 (0.994)		298318	20.5699	20.56	
84 1,4-Dichlorobenzene	146	10.191	10.191 (1.002)		312443	20.2061	20.20	
87 n-Butylbenzene	91	10.495	10.491 (1.032)		372267	22.8830	22.88	
88 1,2-Dichlorobenzene	146	10.506	10.506 (1.033)		290447	19.9745	19.97	
89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166 (1.098)		25002	17.9988	17.99	



90 1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	196574	19.6542	19.65
91 Hexachlorobutadiene	225	11.998	11.998 (1.179)	88180	21.8316	21.83

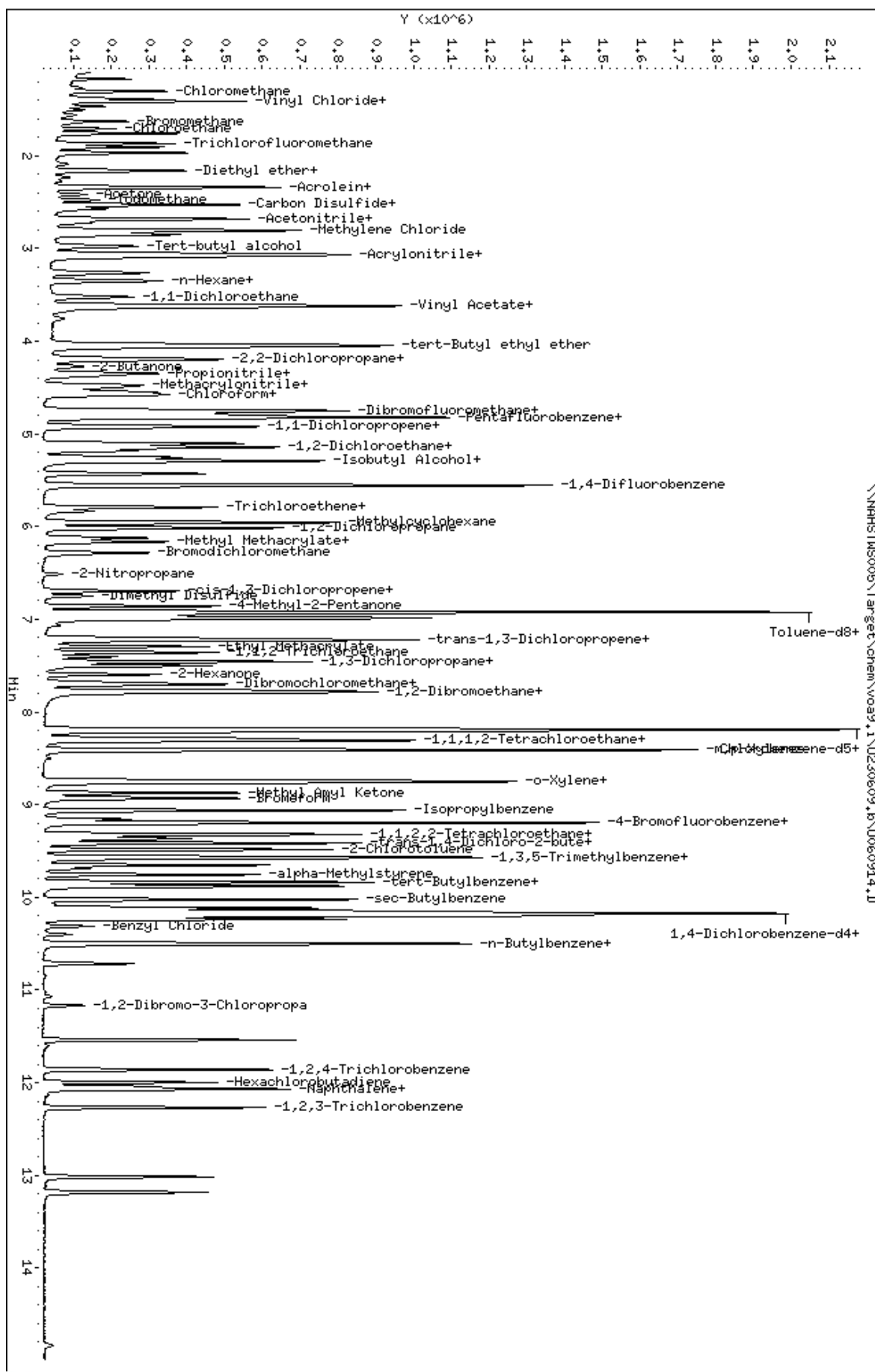
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 Report Date: 13-Jun-2023 14:37

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
92 Naphthalene	128	12.069	12.065	(1.186)	470656	20.2585	20.25
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	188469	19.2755	19.27
M 94 1,2-Dichloroethylene (total)	96				253275	36.3395	36.33
M 95 Xylenes (total)	106				706857	68.2367	68.23
135 1,4-Dioxane	88	6.172	6.169	(1.281)	36289	236.631	236.63
141 Cyclohexane	56	4.785	4.778	(0.993)	207595	22.2889	22.28
138 Freon TF	101	2.341	2.330	(0.486)	113003	21.7855	21.78
140 1,3-Butadiene	54	1.408	1.397	(0.292)	134139	18.3392	18.33
147 Methylcyclohexane	55	5.951	5.947	(1.071)	356254	24.1949	24.19
146 Methyl Acetate	43	2.720	2.709	(0.564)	104573	16.0804	16.08
148 Tert-Butyl alcohol	59	2.975	2.964	(0.617)	264980	368.210	368.21
149 Isopropyl Alcohol	45	2.570	2.559	(0.533)	169944	336.591	336.59
72 trans-1,4-Dichloro-2-butene	53	9.377	9.378	(1.146)	21976	19.5626	19.56
12 Isobutyl Alcohol	43	5.291	5.288	(1.098)	418216	416.767	416.76
13 Acetonitrile	39	2.679	2.667	(0.556)	179420	214.572	214.57
14 Allyl Chloride	41	2.679	2.667	(0.556)	384707	19.1858	19.18
25 Methacrylonitrile	41	4.500	4.493	(0.934)	91417	20.0339	20.03
40 Methyl Methacrylate	41	6.161	6.157	(1.278)	133877	20.1601	20.16
4 Propionitrile	54	4.343	4.336	(0.901)	205398	184.041	184.04(a)
194 Acetaldehyde	44	1.464	1.453	(0.304)	73161	68.6829	68.68(M)
131 Methyl Acrylate	55	4.377	4.366	(0.908)	162978	19.9528	19.95(M)
49 Ethyl Methacrylate	69	7.293	7.293	(1.312)	199077	21.3957	21.39
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	558753	22.6342	22.63
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	163843	19.5740	19.57
142 Tetrahydrofuran	42	4.549	4.542	(0.944)	54930	38.8587	38.85
156 Diisopropyl ether	45	3.627	3.620	(0.753)	455392	21.1460	21.14
86 Benzyl Chloride	91	10.311	10.311	(1.260)	84661	16.9745	16.97
162 Butyl acrylate	55	8.736	8.733	(1.067)	241552	20.9304	20.93
130 Ethyl Acetate	43	4.347	4.339	(0.902)	133162	19.2880	19.28
189 n-Butyl acetate	43	7.709	7.706	(0.942)	210846	18.9798	18.97(M)
182 Epichlorohydrin	57	6.637	6.633	(1.194)	3205	41.0756	41.07

QC Flag Legend

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





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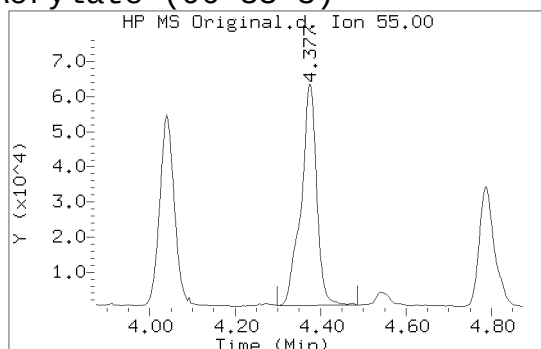
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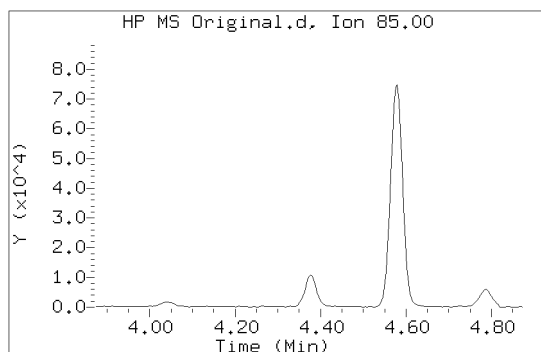
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LabSampID : HS23060280-09MSD

Methyl Acrylate (96-33-3)**BEFORE**

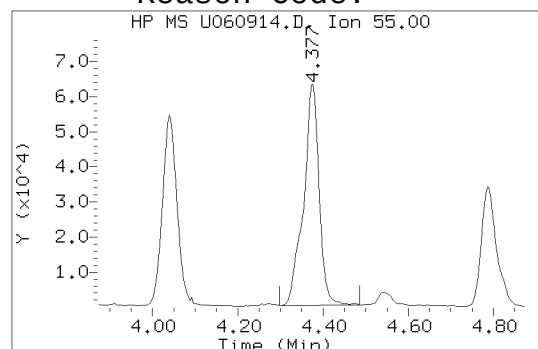
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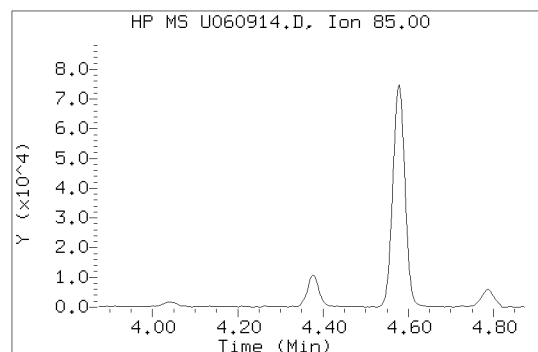
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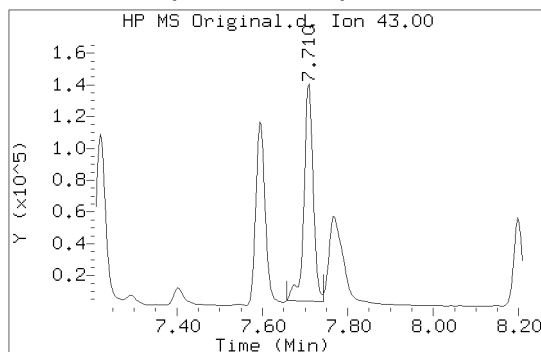
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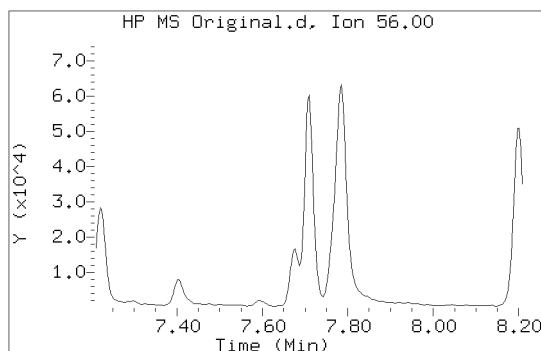
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**n-Butyl acetate (123-86-4)****BEFORE**

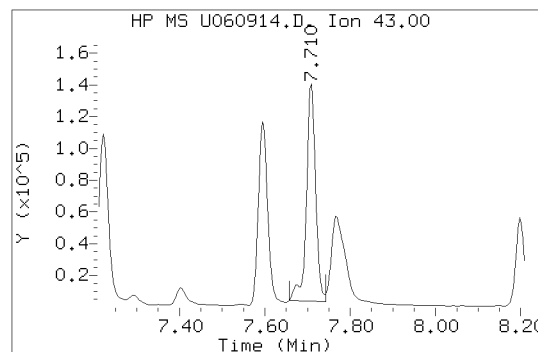
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**BEFORE**

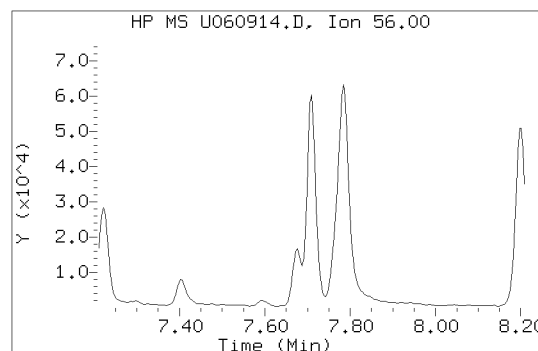
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**AFTER**

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**AFTER**

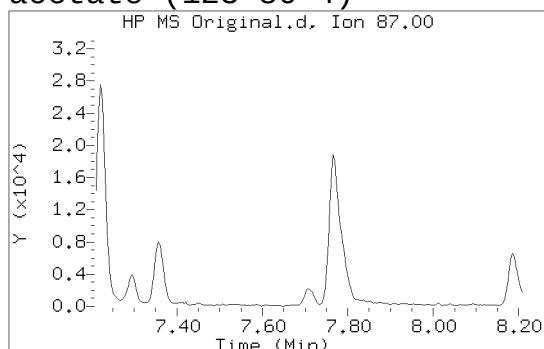
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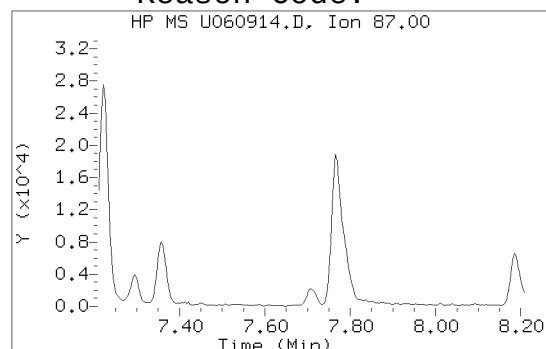
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InstruID : VOA9.i
LabSampID : HS23060280-09MSD

n-Butyl acetate (123-86-4)**BEFORE**

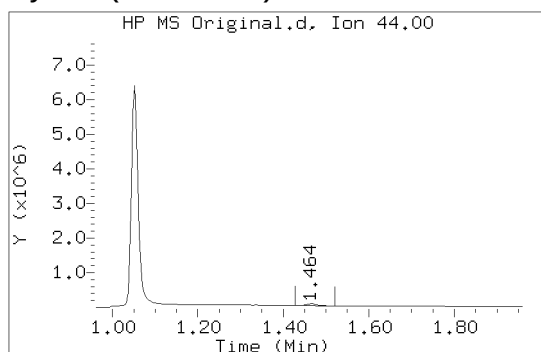
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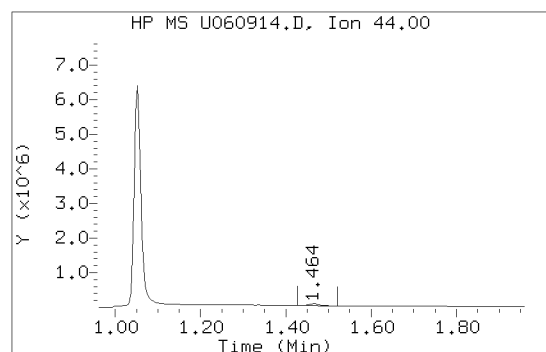
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Reason Code:**Acetaldehyde (75-07-0)****BEFORE**

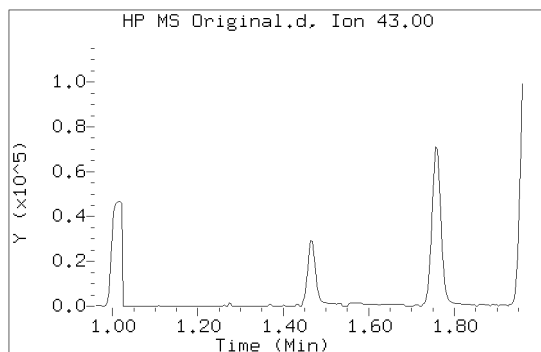
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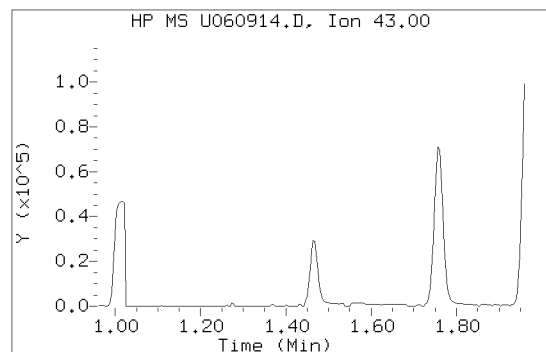
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73161
HEIGHT
55160
13-Jun-2023
14:36
linh
pham

Reason Code:**BEFORE**

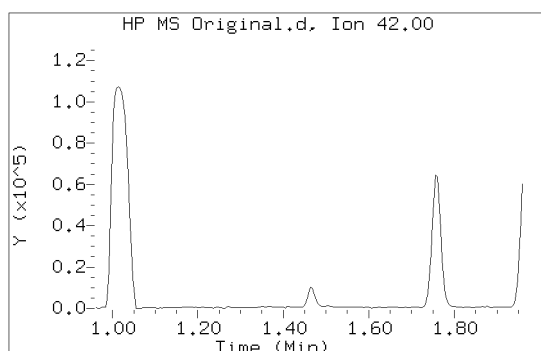
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13-Jun-2023
14:36
linh
pham

**AFTER**

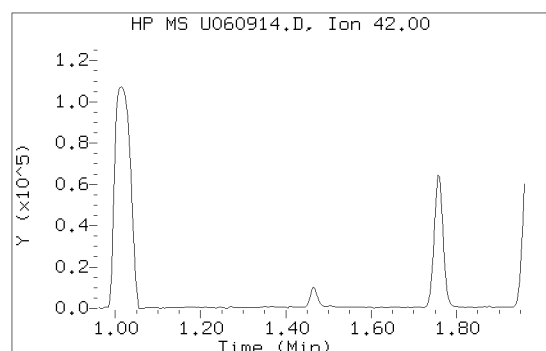
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HEIGHT
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13-Jun-2023
14:36
linh
pham

**BEFORE**

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HEIGHT
0
13-Jun-2023
14:36
linh
pham

**AFTER**

MASS
42
AREA
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HEIGHT
0
13-Jun-2023
14:36
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D Page 1
Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D
Lab Smp Id: HS23060280-02 Client Smp ID: HS23060280-02
Inj Date : 09-JUN-2023 15:55
Operator : PC Inst ID: VOA9.i
Smp Info : HS23060280-02;HS23060280-02;;;
Misc Info : V9;WATER;0;25;
Comment :
Method : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\8260C.m
Meth Date : 13-Jun-2023 14:36 VOA9.i Quant Type: ISTD
Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
Als bottle: 15
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

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

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
* 1 Pentafluorobenzene	168		4.819	4.812	(1.000)		764402	50.0000	
5 Vinyl Chloride	62		1.381	1.370	(0.287)		303056	37.4817	937.04
11 1,1-Dichloroethene	96		2.337	2.326	(0.485)		401060	69.1213	1728.03
22 1,1-Dichloroethane	63		3.518	3.511	(0.730)		208545	17.3906	434.76
27 cis-1,2-Dichloroethene	96		4.200	4.193	(0.872)		23733	3.14386	78.59(a)
\$ 30 Dibromofluoromethane	113		4.751	4.744	(0.986)		311019	48.4651	48.46
33 1,2-Dichloroethane	62		5.179	5.175	(0.932)		6434	0.69798	17.44(a)
\$ 35 1,2-Dichloroethane-d4	65		5.100	5.097	(1.058)		342331	49.2993	49.29
* 36 1,4-Difluorobenzene	114		5.557	5.550	(1.000)		1065018	50.0000	
38 Trichloroethene	130		5.793	5.786	(1.042)		46899	6.30507	157.62
* 47 Chlorobenzene-d5	117		8.185	8.185	(1.000)		961864	50.0000	
\$ 48 Toluene-d8	98		6.922	6.922	(0.846)		1189452	54.6378	54.63
53 1,1,2-Trichloroethane	83		7.357	7.357	(0.899)		12620	2.32491	58.12(a)
\$ 69 4-Bromofluorobenzene	95		9.193	9.194	(1.123)		399725	46.5408	46.54
* 70 1,4-Dichlorobenzene-d4	152		10.172	10.172	(1.000)		473577	50.0000	
88 1,2-Dichlorobenzene	146		10.505	10.506	(1.033)		14442	1.06135	26.53(a)
M 94 1,2-Dichloroethylene (total)	96						23733	3.14386	78.59(a)

QC Flag Legend

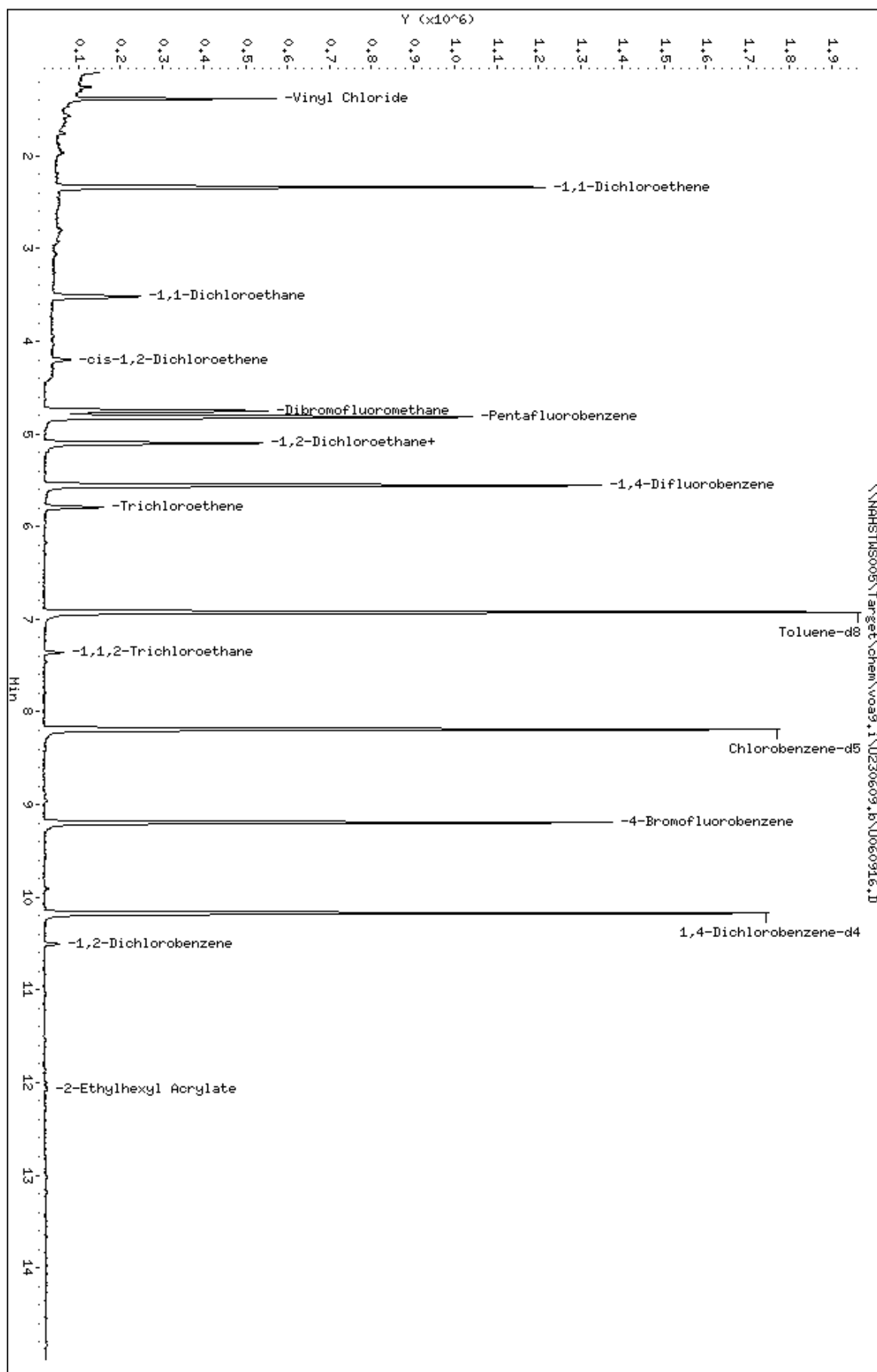


a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230609.b\U060916.D
Date : 09-JUN-2023 15:55
Client ID: HS23060280-02
Sample Info: HS23060280-02;HS23060280-02;;
Purge Volume: 5.0
Column phase: DB624

Instrument: W09.i
Operator: PC
Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D

Page 2

Date : 09-JUN-2023 15:55

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;;

Purge Volume: 5.0

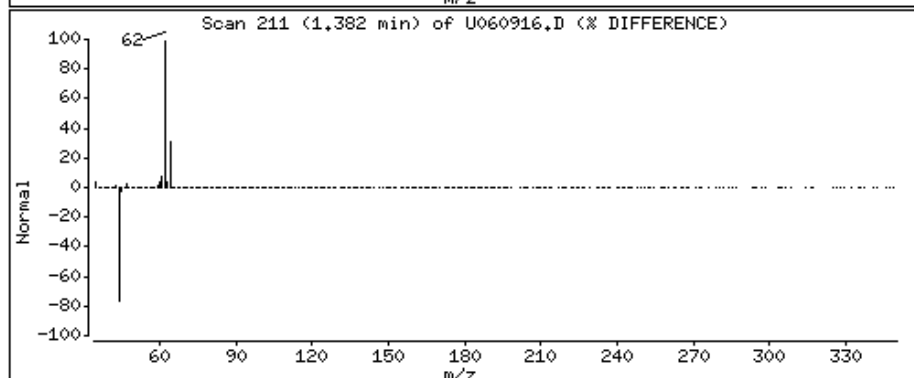
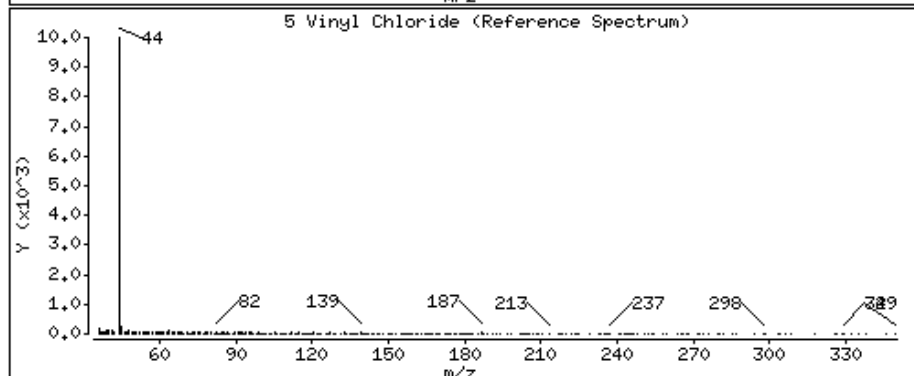
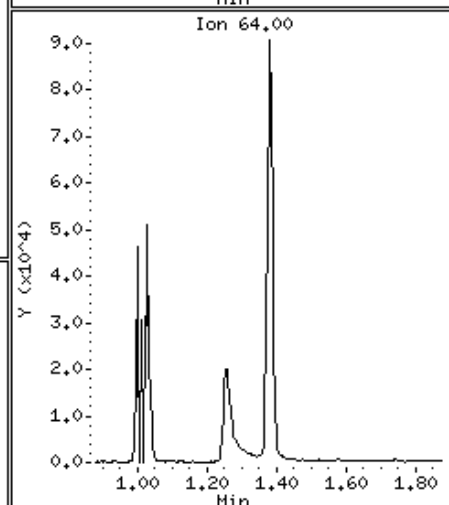
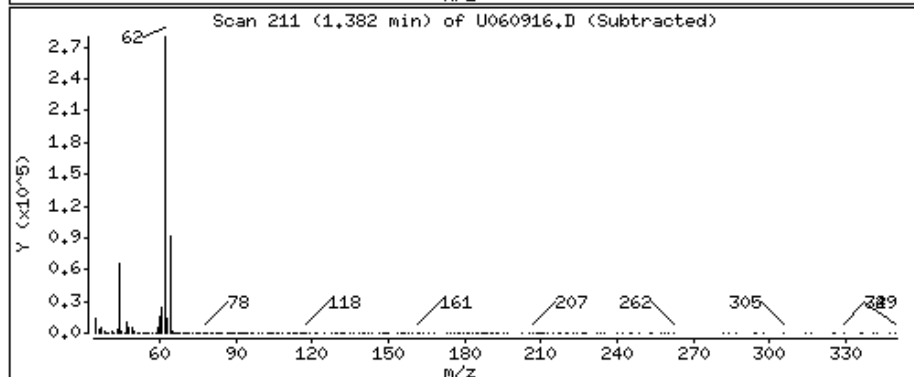
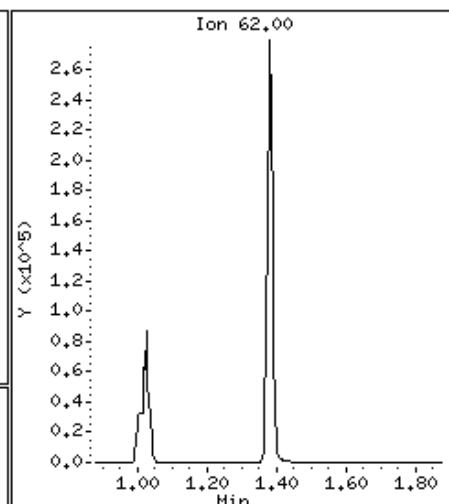
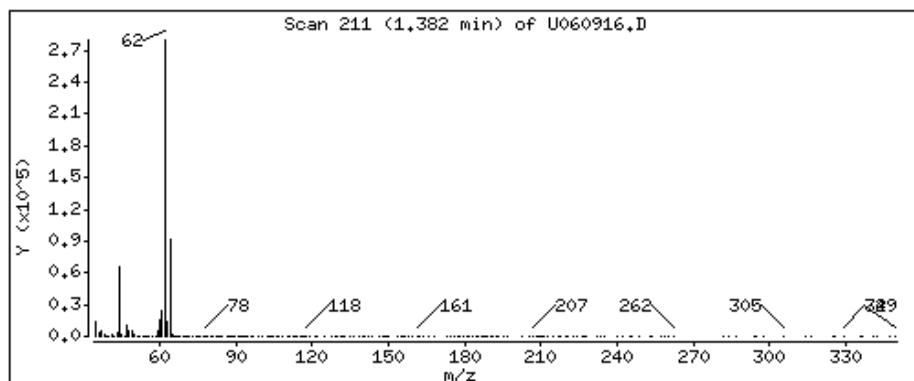
Operator: PC

Column phase: DB624

Column diameter: 0.18

5 Vinyl Chloride

Concentration: 937.04 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D

Page 3

Date : 09-JUN-2023 15:55

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

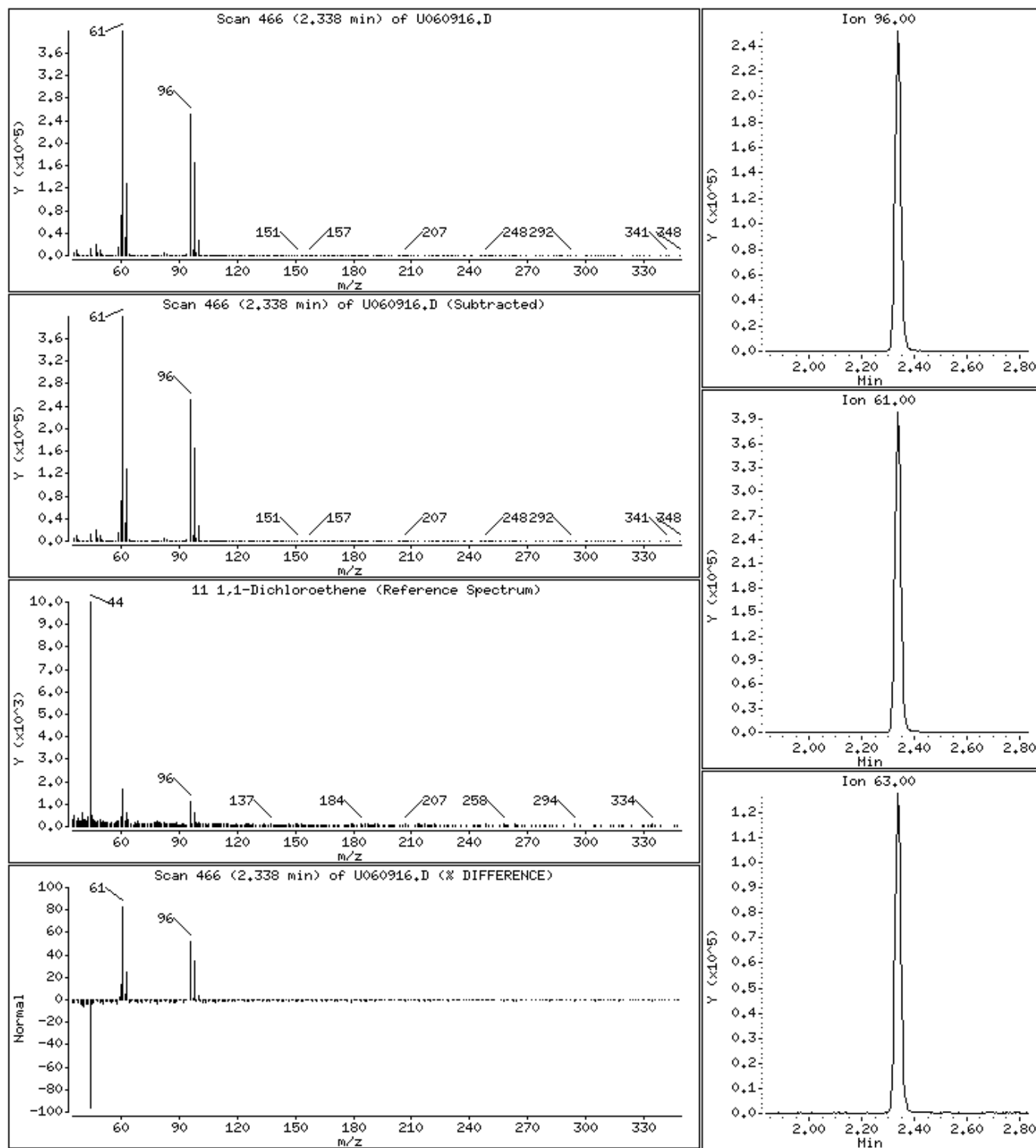
Operator: PC

Column phase: DB624

Column diameter: 0.18

11 1,1-Dichloroethene

Concentration: 1728.03 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D

Page 4

Date : 09-JUN-2023 15:55

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;;

Purge Volume: 5.0

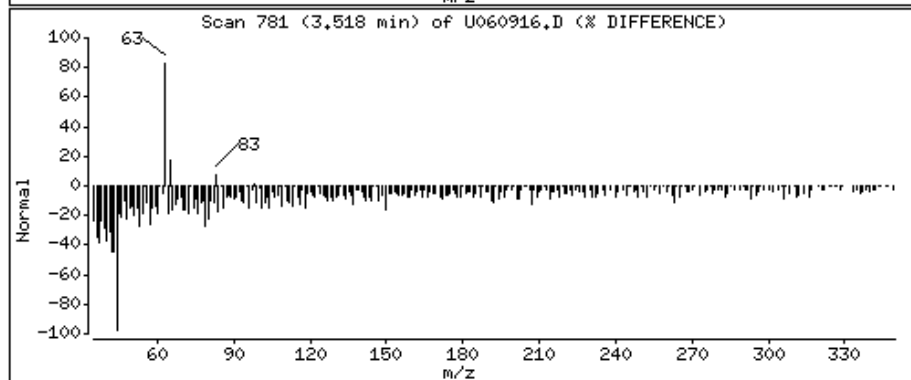
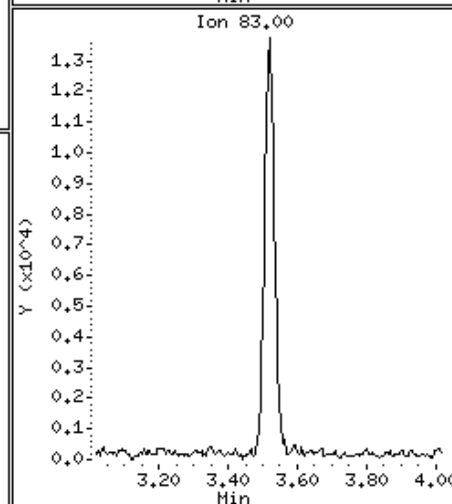
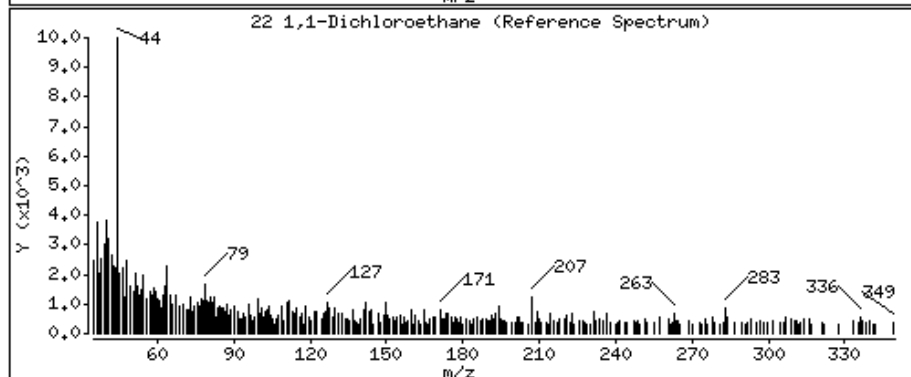
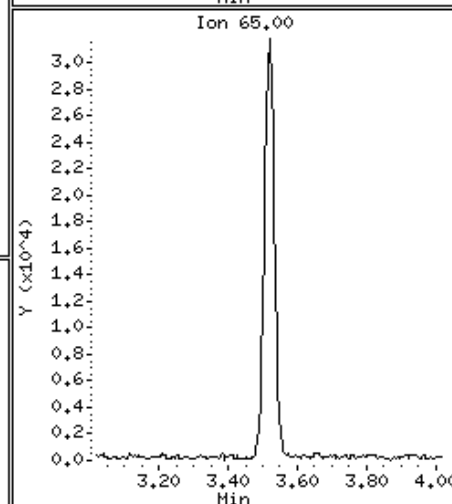
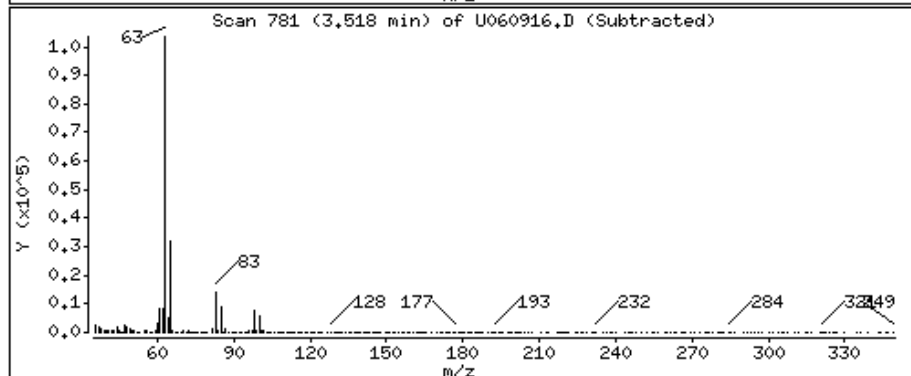
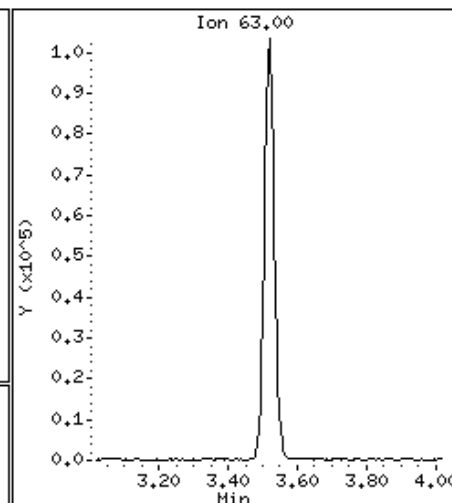
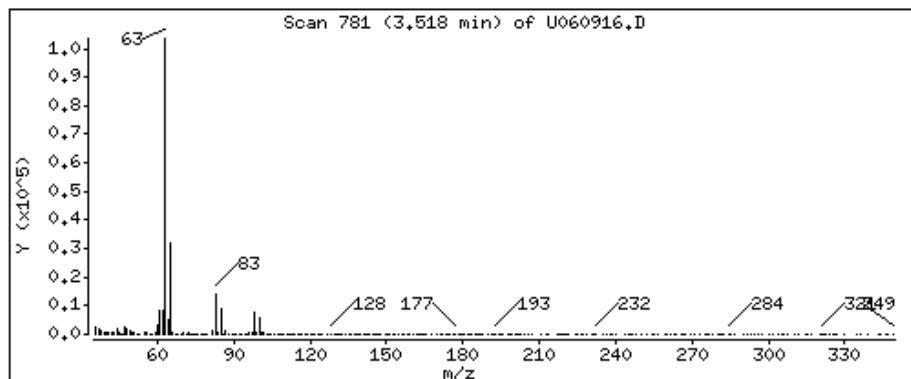
Operator: PC

Column phase: DB624

Column diameter: 0.18

22 1,1-Dichloroethane

Concentration: 434.76 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D

Page 5

Date : 09-JUN-2023 15:55

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;;

Purge Volume: 5.0

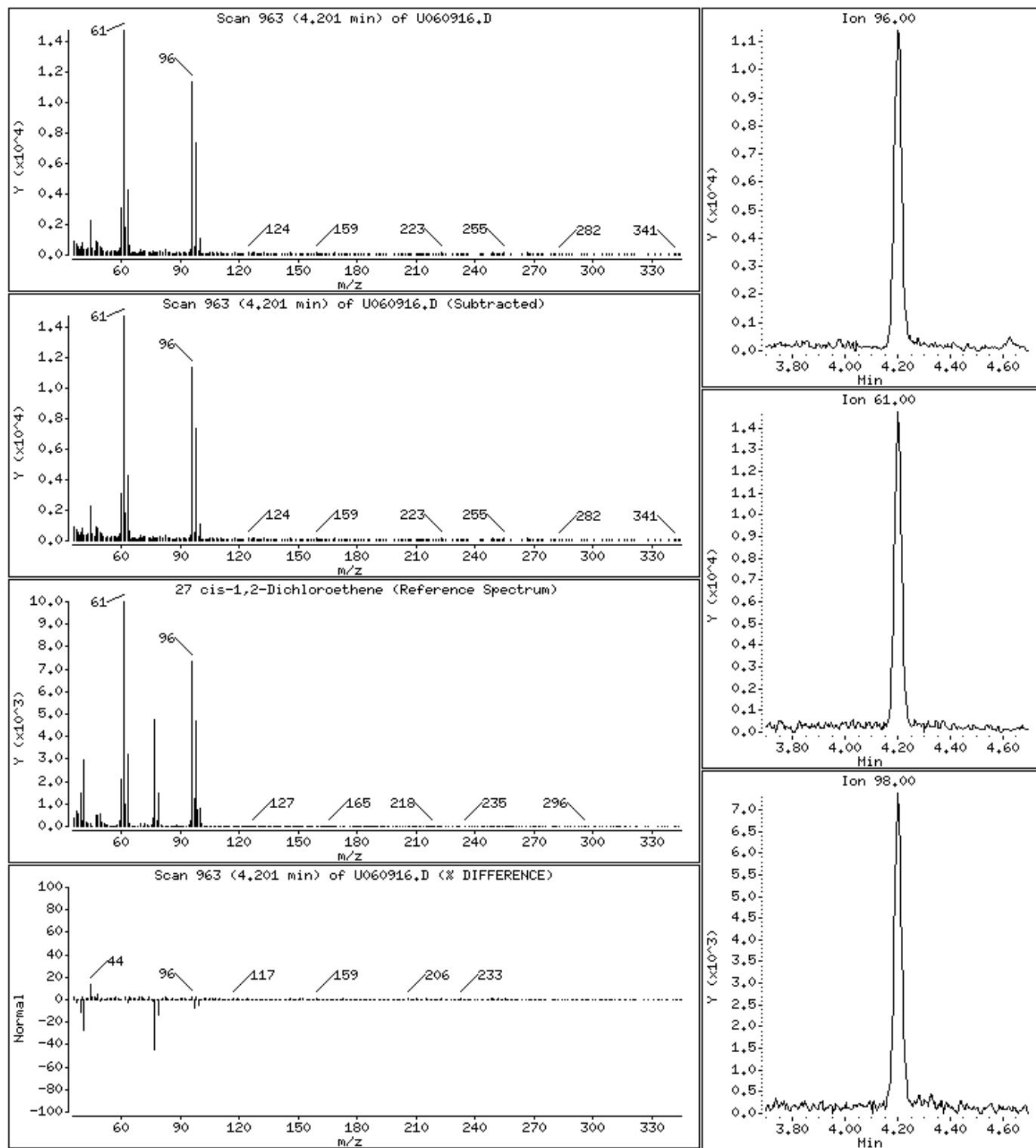
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 78.59 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D

Page 6

Date : 09-JUN-2023 15:55

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

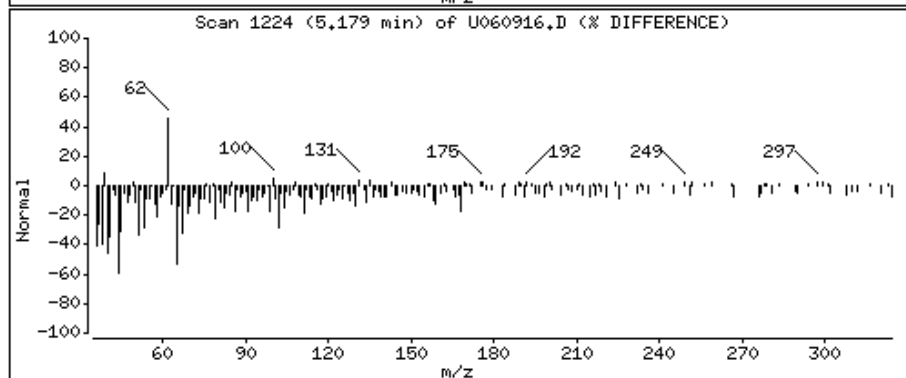
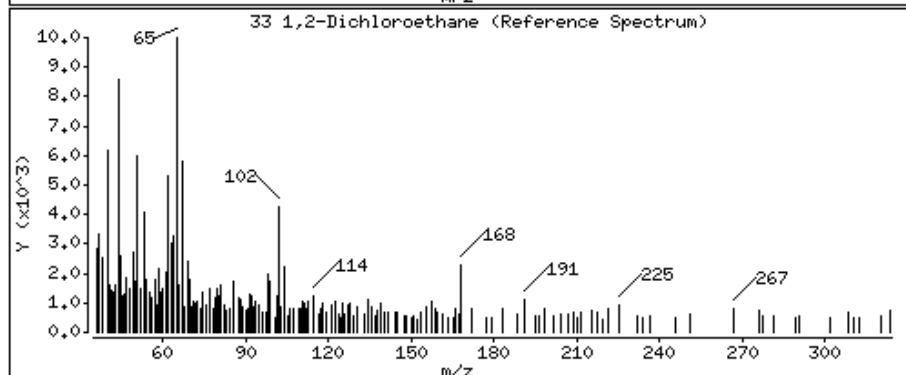
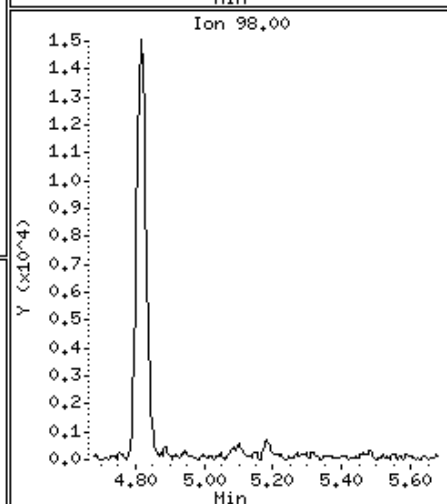
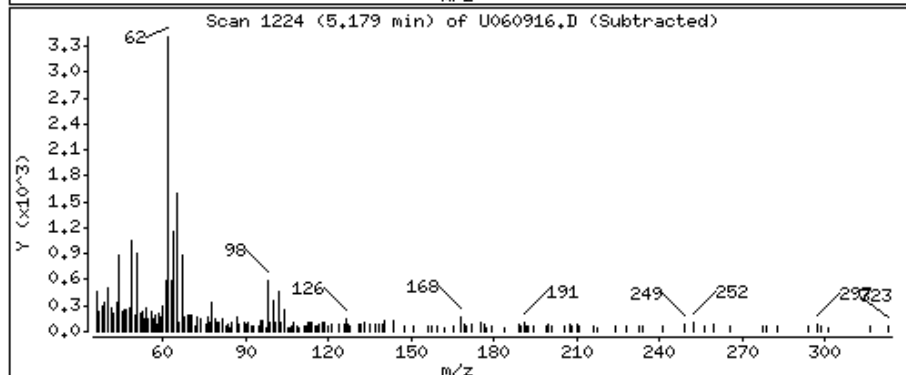
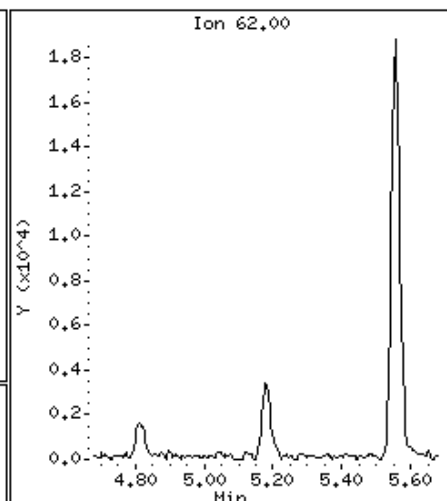
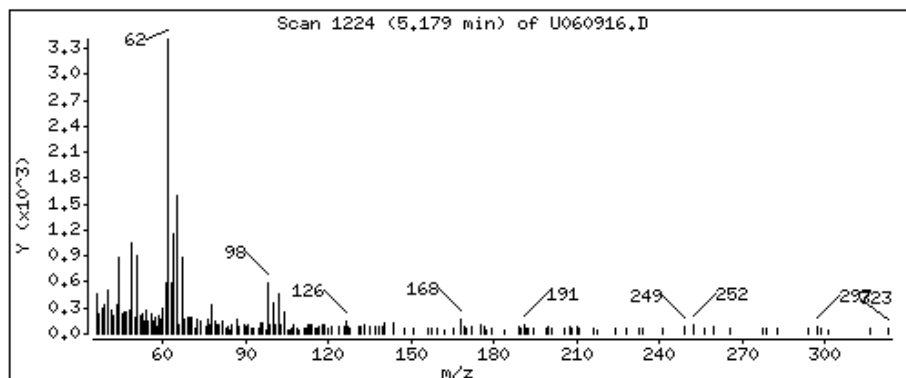
Operator: PC

Column phase: DB624

Column diameter: 0.18

33 1,2-Dichloroethane

Concentration: 17.44 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D

Page 7

Date : 09-JUN-2023 15:55

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

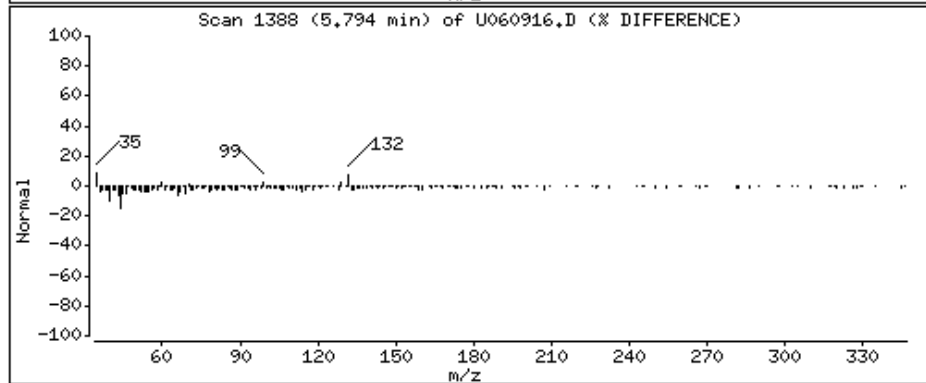
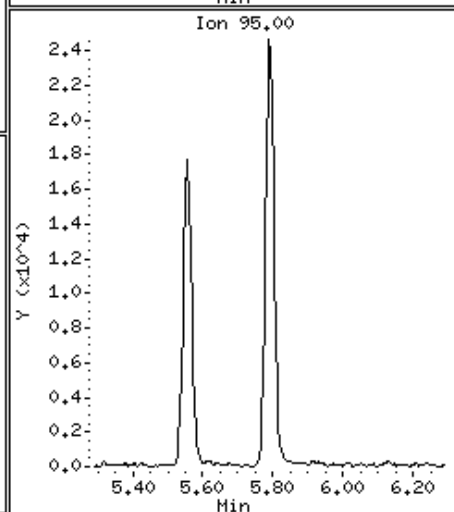
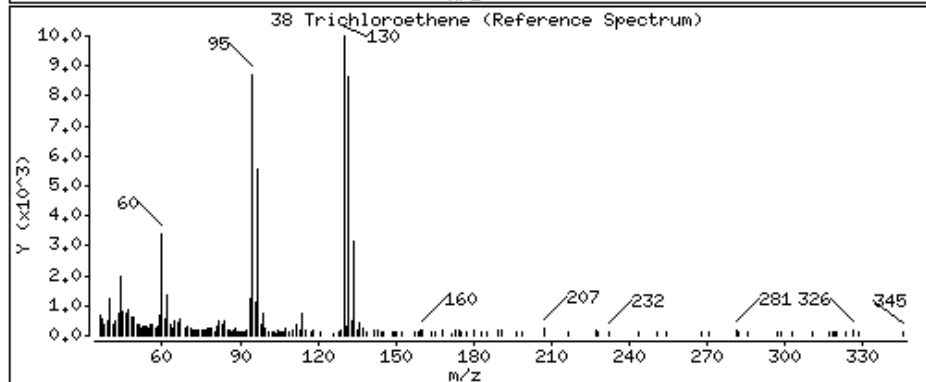
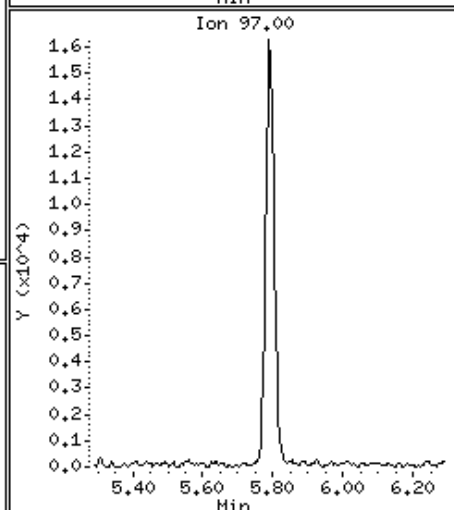
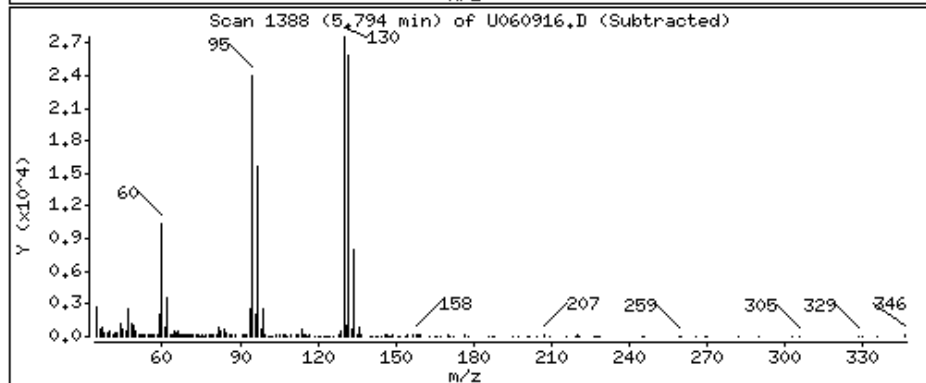
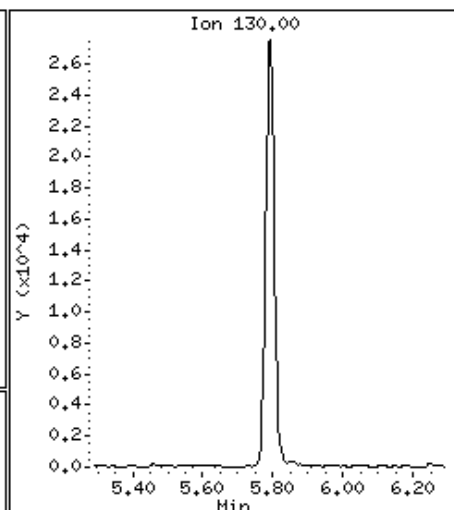
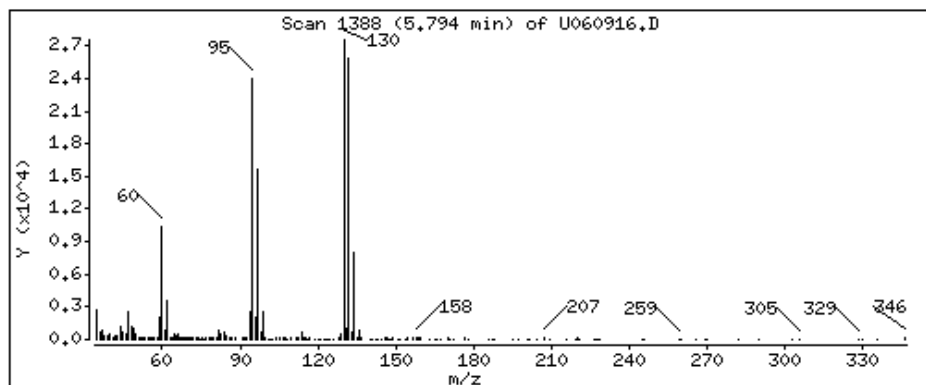
Operator: PC

Column phase: DB624

Column diameter: 0.18

38 Trichloroethene

Concentration: 157.62 ug/l



Data File: \\NAHSTMS005\Target\chem\voa9.i\U230609.b\U060916.D

Page 8

Date : 09-JUN-2023 15:55

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

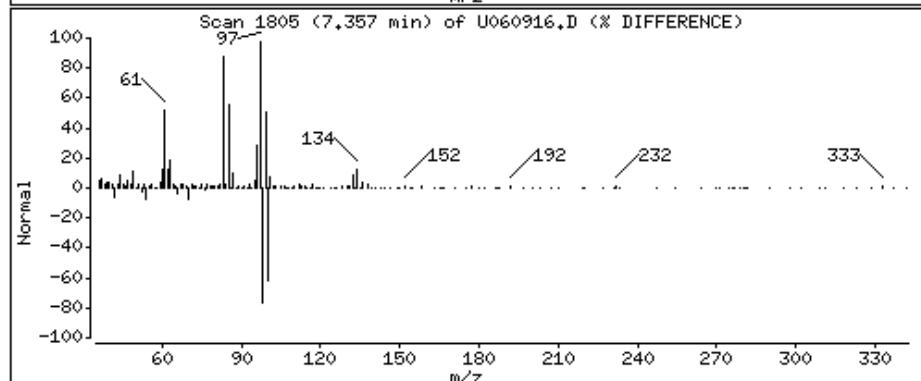
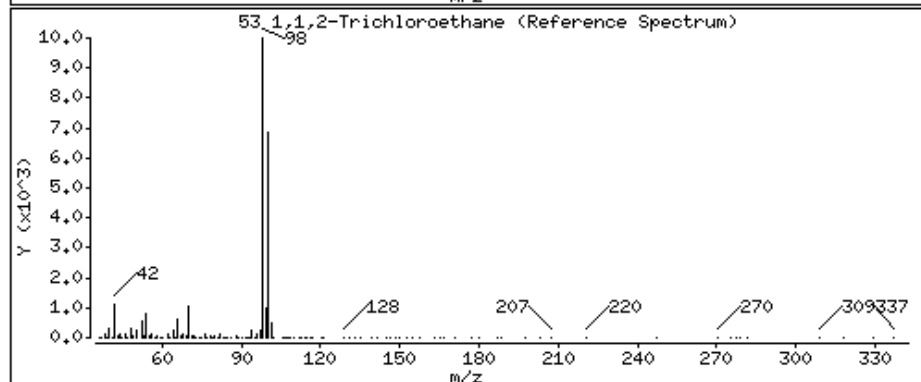
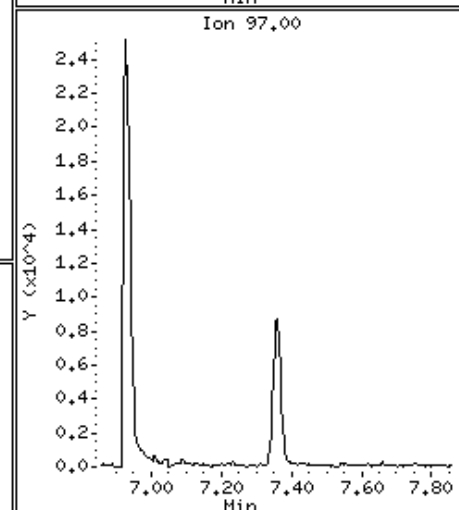
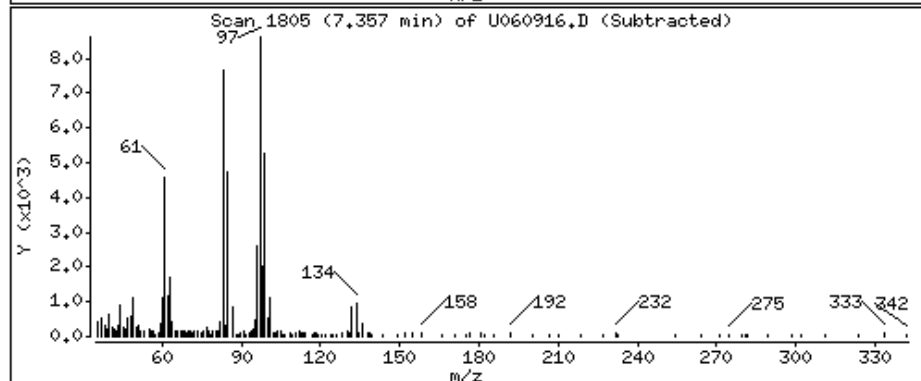
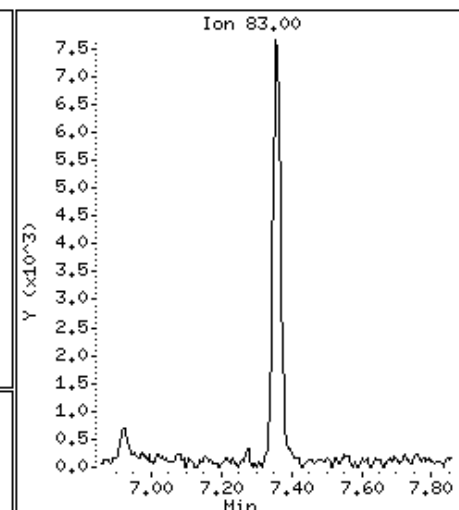
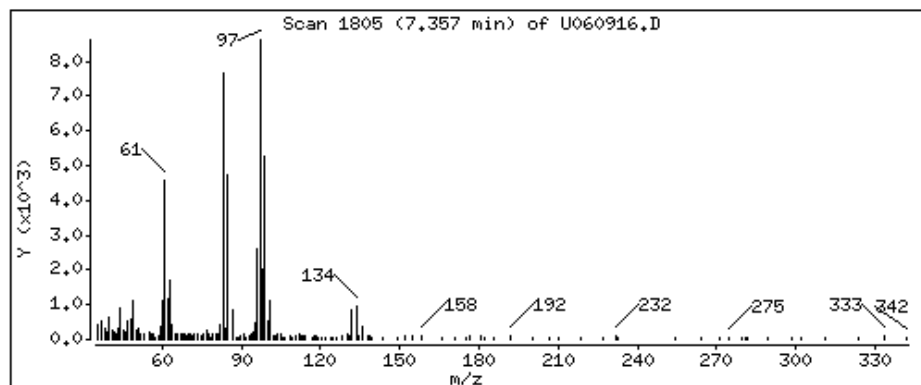
Operator: PC

Column phase: DB624

Column diameter: 0.18

53 1,1,2-Trichloroethane

Concentration: 58.12 ug/l



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D

Page 9

Date : 09-JUN-2023 15:55

Client ID: HS23060280-02

Instrument: VOA9.i

Sample Info: HS23060280-02;HS23060280-02;;

Purge Volume: 5.0

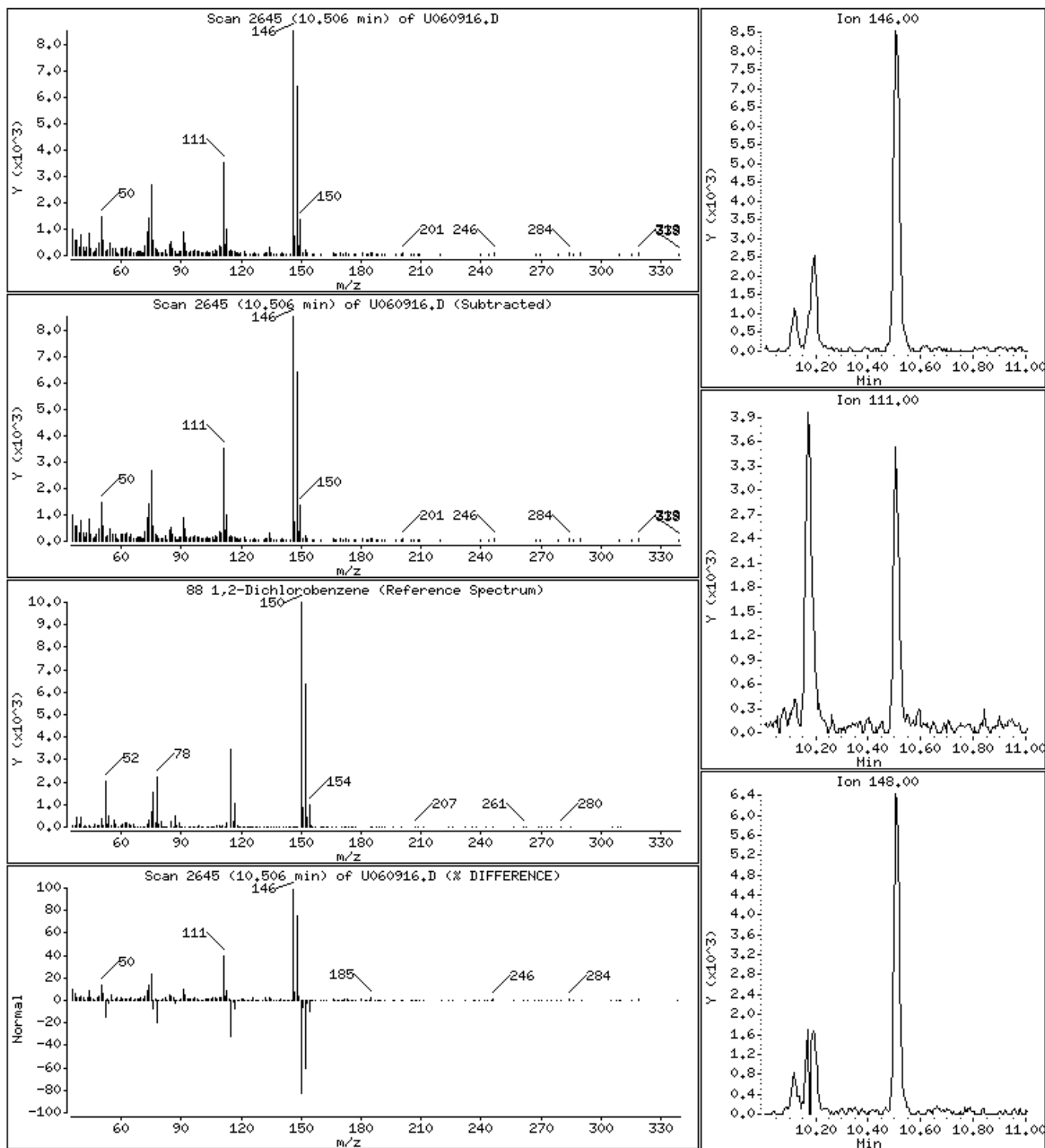
Operator: PC

Column phase: DB624

Column diameter: 0.18

88 1,2-Dichlorobenzene

Concentration: 26.53 ug/l



Data File : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060916.D
Inj Date : 09-JUN-2023 15:55
InstruID : VOA9.i
LabSampID : HS23060280-02

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060923.D Page 1
 Report Date: 13-Jun-2023 14:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060923.D
 Lab Smp Id: CCV-END Client Smp ID: CCV-END
 Inj Date : 09-JUN-2023 18:32
 Operator : PC Inst ID: VOA9.i
 Smp Info : CCV-END;CCV-END;2;;;
 Misc Info : V9;WATER;0;1;
 Comment :
 Method : \\NAHSTWS005\Target\chem\voa9.i\U230609.b\8260C.m
 Meth Date : 13-Jun-2023 14:37 VOA9.i Quant Type: ISTD
 Cal Date : 06-JUN-2023 13:50 Cal File: U060608.D
 Als bottle: 22 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8260_GB.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

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

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

		QUANT SIG				AMOUNTS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	602180	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	244043	50.0000	43.87
3 Chloromethane	50	1.299	1.299	(0.270)	517416	50.0000	57.15
5 Vinyl Chloride	62	1.378	1.378	(0.286)	315243	50.0000	49.49
6 Bromomethane	94	1.621	1.621	(0.337)	172722	50.0000	52.83
7 Chloroethane	64	1.700	1.700	(0.353)	199907	50.0000	46.59
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	386330	50.0000	52.80
9 Acrolein	56	2.266	2.266	(0.471)	33019	100.000	103.30
10 Acetone	43	2.412	2.412	(0.501)	211589	100.000	102.44
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	259963	50.0000	56.87
15 Iodomethane	142	2.472	2.472	(0.513)	201928	100.000	61.55
16 Acrylonitrile	53	3.068	3.068	(0.637)	237919	100.000	106.53
17 Methylene Chloride	84	2.798	2.798	(0.581)	284356	50.0000	51.81
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	758941	50.0000	54.14
19 Carbon Disulfide	76	2.521	2.521	(0.524)	1231682	100.000	100.79
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	248796	50.0000	50.04
21 Vinyl Acetate	43	3.608	3.608	(0.749)	1422062	100.000	93.84
22 1,1-Dichloroethane	63	3.518	3.518	(0.731)	457322	50.0000	48.40
24 2-Butanone	43	4.268	4.268	(0.886)	258023	100.000	93.97
26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	291061	50.0000	46.62



27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	295454	50.0000	49.68
28 Chloroform	83	4.575	4.575 (0.950)	500597	50.0000	50.91

Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060923.D Page 2
 Report Date: 13-Jun-2023 14:37

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
29 Bromochloromethane	128	4.470	4.470	(0.928)	161289	50.0000	48.48
\$ 30 Dibromofluoromethane	113	4.751	4.751	(0.987)	275127	50.0000	54.46
31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	388845	50.0000	51.88
32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	328066	50.0000	46.15
33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	416872	50.0000	49.66
34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	317088	50.0000	48.56
\$ 35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	311928	50.0000	57.12
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	969814	50.0000	
37 Benzene	78	5.141	5.141	(0.926)	1073979	50.0000	45.95
38 Trichloroethene	130	5.790	5.790	(1.043)	445450	50.0000	65.76
39 Bromodichloromethane	83	6.281	6.281	(1.131)	371408	50.0000	50.94
41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	12213	100.000	69.26
42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	308837	50.0000	49.49
44 Dibromomethane	93	6.120	6.120	(1.102)	195955	50.0000	49.15
45 4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	652628	100.000	95.31
46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	442394	50.0000	45.47
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	940281	50.0000	
\$ 48 Toluene-d8	98	6.922	6.922	(0.846)	1087452	50.0000	51.09
50 Toluene	91	6.982	6.982	(0.853)	1238156	50.0000	48.54
51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	365772	50.0000	44.83
52 2-Hexanone	43	7.593	7.593	(0.928)	423089	100.000	88.72
53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	248288	50.0000	46.79
54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	524348	50.0000	48.36
55 Dibromochloromethane	129	7.694	7.694	(0.940)	333224	50.0000	52.92
56 Tetrachloroethene	164	7.458	7.458	(0.911)	287469	50.0000	46.26
57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	307554	50.0000	46.98
58 1-Chlorohexane	55	8.196	8.196	(1.476)	211014	50.0000	42.37
59 Chlorobenzene	112	8.211	8.211	(1.003)	877146	50.0000	48.19
60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	314410	50.0000	50.25
61 Ethylbenzene	106	8.309	8.309	(1.015)	416520	50.0000	49.16
62 m,p-Xylenes	106	8.410	8.410	(1.027)	1023386	100.000	102.10
63 o-Xylene	106	8.748	8.748	(1.069)	504495	50.0000	50.95
64 Styrene	104	8.763	8.763	(1.071)	843887	50.0000	53.70
66 Bromoform	173	8.920	8.920	(1.090)	221173	50.0000	52.04
67 Isopropylbenzene	105	9.062	9.062	(1.107)	1180864	50.0000	49.65
68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	404452	50.0000	43.43
\$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	445584	50.0000	53.19
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	495031	50.0000	
71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	372319	50.0000	45.45
73 n-Propylbenzene	91	9.411	9.411	(0.925)	1210368	50.0000	46.61
74 Bromobenzene	156	9.317	9.317	(0.916)	390707	50.0000	46.77
75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	819428	50.0000	45.99
76 2-Chlorotoluene	91	9.482	9.482	(0.932)	872813	50.0000	47.81
77 4-Chlorotoluene	91	9.576	9.576	(0.941)	976543	50.0000	48.33
78 tert-Butylbenzene	119	9.838	9.838	(0.967)	813833	50.0000	46.51
79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	819284	50.0000	43.95
81 sec-Butylbenzene	105	10.022	10.022	(0.985)	1006417	50.0000	45.35
82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	830151	50.0000	44.65
83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	653170	50.0000	46.04
84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	685055	50.0000	45.29
87 n-Butylbenzene	91	10.491	10.491	(1.031)	665315	50.0000	41.80
88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	654899	50.0000	46.04



89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165 (1.098)	62073	50.0000	45.68
90	1,2,4-Trichlorobenzene	180	11.859	11.859 (1.166)	436164	50.0000	44.58



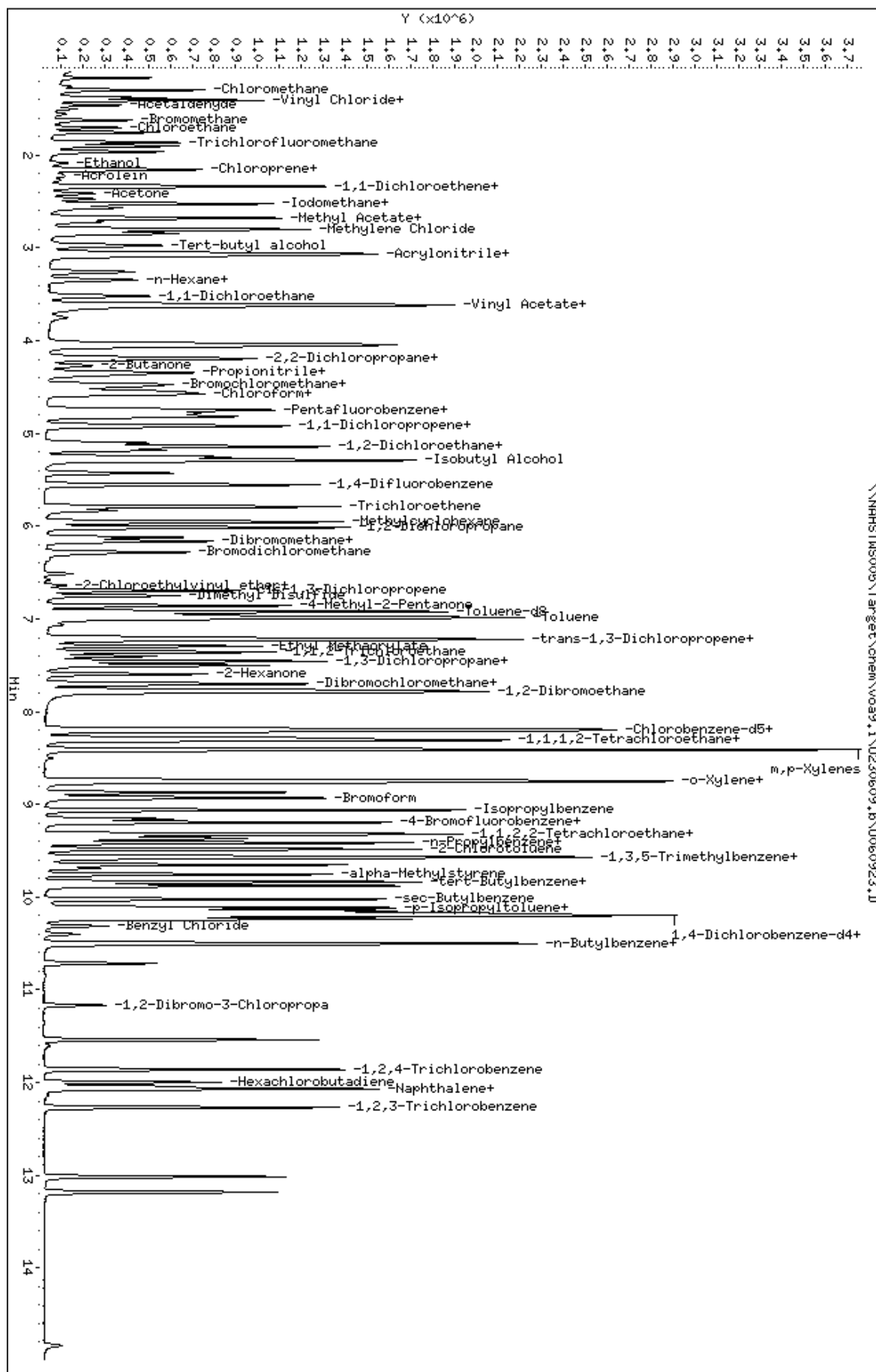
Data File: \\NAHSTWS005\Target\chem\voa9.i\U230609.b\U060923.D Page 3
 Report Date: 13-Jun-2023 14:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
91 Hexachlorobutadiene	225	11.998	11.998	(1.179)	154210	50.0000	39.03
92 Naphthalene	128	12.065	12.065	(1.186)	1097686	50.0000	48.30
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	425255	50.0000	44.46
M 94 1,2-Dichloroethylene (total)	96				544250	100.000	(a)
135 1,4-Dioxane	88	6.172	6.172	(1.282)	86253	1000.00	721.35
141 Cyclohexane	56	4.785	4.785	(0.994)	307020	50.0000	41.68
138 Freon TF	101	2.337	2.337	(0.485)	195821	50.0000	48.41
140 1,3-Butadiene	54	1.408	1.408	(0.292)	261863	50.0000	45.91
147 Methylcyclohexane	55	5.947	5.947	(1.071)	699921	50.0000	52.02
146 Methyl Acetate	43	2.716	2.716	(0.564)	250876	50.0000	49.47
148 Tert-Butyl alcohol	59	2.971	2.971	(0.617)	574413	1000.00	1032.55
149 Isopropyl Alcohol	45	2.566	2.566	(0.533)	382527	1000.00	971.71
72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	53113	50.0000	49.05
12 Isobutyl Alcohol	43	5.291	5.291	(1.099)	977752	1000.00	1249.68
13 Acetonitrile	39	2.675	2.675	(0.555)	363455	500.000	557.48
14 Allyl Chloride	41	2.675	2.675	(0.555)	799302	50.0000	51.12
25 Methacrylonitrile	41	4.496	4.496	(0.934)	192658	50.0000	54.15
40 Methyl Methacrylate	41	6.157	6.157	(1.279)	299051	50.0000	57.75
4 Propionitrile	54	4.343	4.343	(0.902)	448077	500.000	514.93
194 Acetaldehyde	44	1.460	1.460	(0.303)	152682	200.000	183.83(M)
131 Methyl Acrylate	55	4.373	4.373	(0.908)	351047	50.0000	55.12
49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	452259	50.0000	53.19
164 Dicyclopentadiene	66	10.202	10.202	(1.003)	1143240	50.0000	47.34
145 alpha-Methylstyrene	118	9.756	9.756	(0.959)	380562	50.0000	41.62
142 Tetrahydrofuran	42	4.549	4.549	(0.945)	110662	100.000	104.14
156 Diisopropyl ether	45	3.623	3.623	(0.752)	909040	50.0000	54.13
86 Benzyl Chloride	91	10.311	10.311	(1.260)	187317	50.0000	34.47
162 Butyl acrylate	55	8.733	8.733	(1.067)	553756	50.0000	49.78
130 Ethyl Acetate	43	4.347	4.347	(0.903)	330576	50.0000	61.41
189 n-Butyl acetate	43	7.709	7.709	(0.942)	509965	50.0000	47.63
182 Epichlorohydrin	57	6.633	6.633	(1.194)	13329	200.000	148.16

QC Flag Legend

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





\\NAHSTMS005\Target\chem\voa9.i\U230609.b\U060923.D

Data File: \\NAHSTMS005\Target\chem\voa9.i\U230609.b\U060923.D
 Date : 09-JUN-2023 18:32
 Client ID: CCV-END
 Sample Info: CCV-END;CCV-END;2;;
 Purge Volume: 5.0
 Column phase: DB624

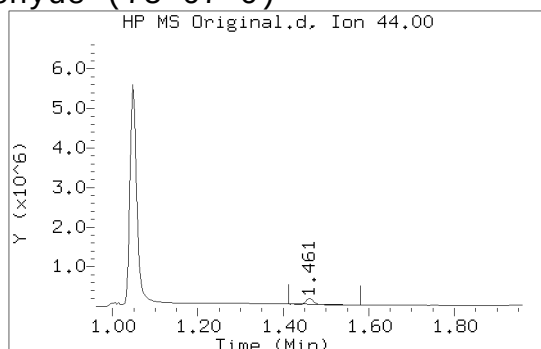
Instrument: W093.1
 Operator: PC
 Column diameter: 0.18

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Inj Date : 09-JUN-2023 18:32
InstruID : VOA9.i
LabSampID : CCV-END

Acetaldehyde (75-07-0)

BEFORE

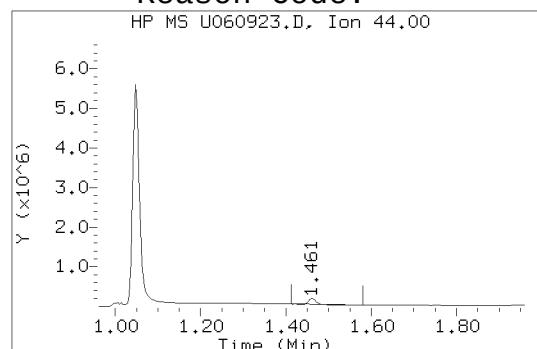
MASS
44
AREA
152682
HEIGHT
149192
13-Jun-2023
14:36
linh
pham



AFTER

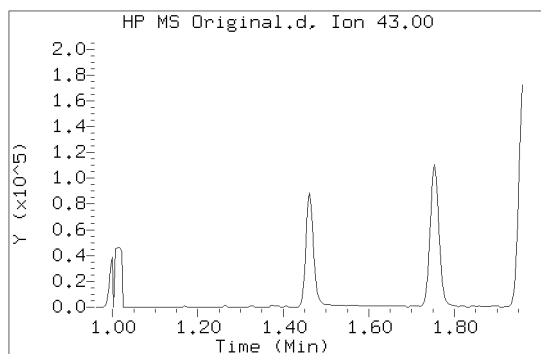
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HEIGHT
149192
13-Jun-2023
14:36
linh
pham

Reason Code:



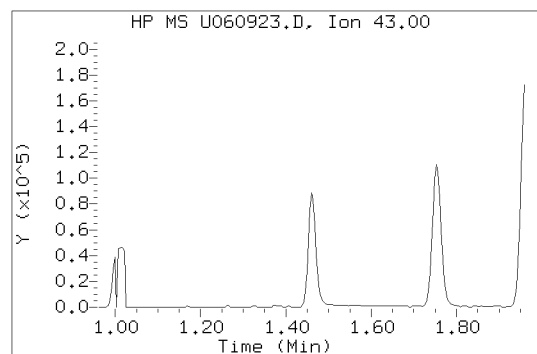
BEFORE

MASS
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AREA
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HEIGHT
0
13-Jun-2023
14:36
linh
pham



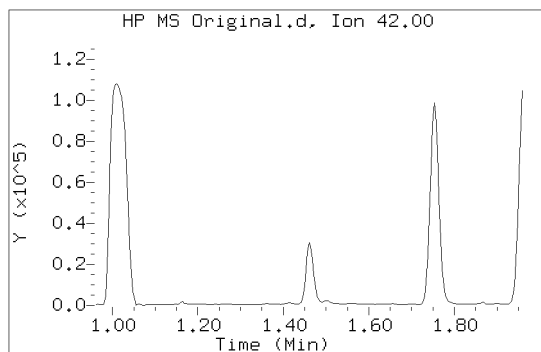
AFTER

MASS
43
AREA
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HEIGHT
0
13-Jun-2023
14:36
linh
pham



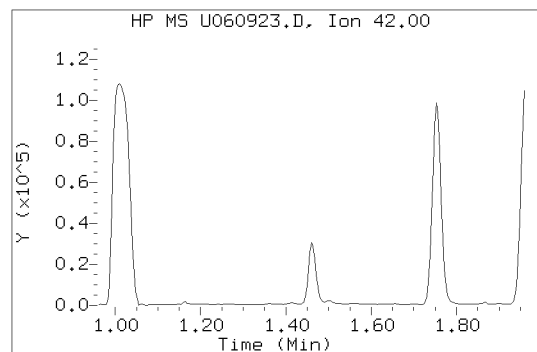
BEFORE

MASS
42
AREA
0
HEIGHT
0
13-Jun-2023
14:36
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
13-Jun-2023
14:36
linh
pham



HS23060280-GCSEMI-RSK-175

ALS WO# HS23060280





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Form 1

Organic Analysis Data Sheet

Semi-Volatiles by RSK-175

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/09/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

HS23060280-01			Collected		Received		Matrix		Basis	
35AWW19_060523			06/05/23 06:55		06/06/23 09:30		Groundwater		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/08/23 08:23	FID-	005
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/08/23 08:23	FID-	005
Methane	ug/L	1.28		0.107	0.500	0.500	1	06/08/23 08:23	FID-	005





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

HS23060280-02			Collected		Received		Matrix		Basis	
35AWW20_060523			06/05/23 07:45		06/06/23 09:30		Groundwater		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/08/23 08:44	FID-	006
Ethene	ug/L	38.9		0.234	1.00	1.00	1	06/08/23 08:44	FID-	006
Methane	ug/L	3,350		10.7	50.0	50.0	100	06/08/23 10:54	FID-	013





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

HS23060280-03			Collected		Received		Matrix		Basis	
LHSMW07_060523			06/05/23 08:30		06/06/23 09:30		Groundwater		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/08/23 08:52	FID-	007
Ethene	ug/L	20.9		0.234	1.00	1.00	1	06/08/23 08:52	FID-	007
Methane	ug/L	2,860		10.7	50.0	50.0	100	06/08/23 11:09	FID-	014





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

HS23060280-04			Collected		Received		Matrix		Basis	
35AWW06_060523			06/05/23 09:15		06/06/23 09:30		Groundwater		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/08/23 09:07	FID-	008
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/08/23 09:07	FID-	008
Methane	ug/L	4,790		21.4	100	100	200	06/08/23 12:17	FID-	015





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

HS23060280-05			Collected		Received		Matrix		Basis	
35AWW23_060523			06/05/23 10:05		06/06/23 09:30		Groundwater		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/08/23 09:20	FID-	009
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/08/23 09:20	FID-	009
Methane	ug/L	7,440		21.4	100	100	200	06/08/23 12:37	FID-	016





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

HS23060280-06			Collected		Received		Matrix		Basis	
35AWW11_060523			06/05/23 10:55		06/06/23 09:30		Groundwater		Wet	
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/08/23 09:37	FID-	010
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/08/23 09:37	FID-	010
Methane	ug/L	6,110		21.4	100	100	200	06/08/23 12:52	FID-	017





Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

MBLK-230608				Collected			Received		Matrix	Basis
MBLK-230608				NA			NA		Aqueous	Wet
Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/08/23 07:19	FID-	002
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/08/23 07:19	FID-	002
Methane	ug/L	0.500	U	0.107	0.500	0.500	1	06/08/23 07:19	FID-	002





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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by RSK-175

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/09/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

FID-4_437509_R437509	QC ID		LCS-R437509			LCSD-R437509					
QC Matrix Aqueous	Units ug/L	Run Date Run Time	06/08/23 07:44			06/08/23 08:08					
Analyte	%R Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Ethane	74-131	18.04	20.94	116		20.96	116.0		30	0.0929	
Ethene	72-133	16.8	17.88	106		17.4	104.0		30	2.71	
Methane	73-125	9.647	8.002	83		8.053	84.0		30	0.639	

- %Recovery / RPD Flag

* - %Recovery / RPD Outside Limits





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Form 4

Method Blank Summary

Semi-Volatiles by RSK-175

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/09/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

Semi-Volatiles by RSK-175

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-230608	002.D	06/08/23 07:19	FID-4_437509_R437509
LCS-230608	LCS	LCS-230608	003.D	06/08/23 07:44	FID-4_437509_R437509
LCSD-230608	LCSD	LCSD-230608	004.D	06/08/23 08:08	FID-4_437509_R437509
35AWW19_060523	SAMP	HS23060280-01	005.D	06/08/23 08:23	FID-4_437509_R437509
35AWW20_060523	SAMP	HS23060280-02	006.D	06/08/23 08:44	FID-4_437509_R437509
LHSMW07_060523	SAMP	HS23060280-03	007.D	06/08/23 08:52	FID-4_437509_R437509
35AWW06_060523	SAMP	HS23060280-04	008.D	06/08/23 09:07	FID-4_437509_R437509
35AWW23_060523	SAMP	HS23060280-05	009.D	06/08/23 09:20	FID-4_437509_R437509
35AWW11_060523	SAMP	HS23060280-06	010.D	06/08/23 09:37	FID-4_437509_R437509
35AWW19_060523	DUP	HS23060280-01DUP	012.D	06/08/23 10:26	FID-4_437509_R437509
35AWW20_060523	SAMP	HS23060280-02	013.D	06/08/23 10:54	FID-4_437509_R437509
LHSMW07_060523	SAMP	HS23060280-03	014.D	06/08/23 11:09	FID-4_437509_R437509
35AWW06_060523	SAMP	HS23060280-04	015.D	06/08/23 12:17	FID-4_437509_R437509
35AWW23_060523	SAMP	HS23060280-05	016.D	06/08/23 12:37	FID-4_437509_R437509
35AWW11_060523	SAMP	HS23060280-06	017.D	06/08/23 12:52	FID-4_437509_R437509





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Form 6

Initial Calibration Data

Semi-Volatiles by RSK-175

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/09/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder
HS23060280

RunID

FID-4_322102

Semi-Volatiles by RSK-175

Calibration Files

ICAL Start Date 24-JAN-2017 0906
ICAL End Date 24-JAN-2017 1113

Calibration File Names
Level 1 ..FID-4.i\170124.b\001.D
Level 2 ..FID-4.i\170124.b\002.D
Level 3 ..FID-4.i\170124.b\003.D

Level 4 ..FID-4.i\170124.b\004.D
Level 5 ..FID-4.i\170124.b\005.D
Level 6 ..FID-4.i\170124.b\006.D
Level 7 ..FID-4.i\170124.b\007.D

	Level 1 10.00 Level 7 1000.0	Level 2 25.00	Level 3 50.00	Level 4 100.00	Level 5 250.00	Level 6 500.00					%RSD or R ²	Q
Compound							Curve	b	m1	m2		
Methane	969 1082	978	1020	881	961	931	AVRG		974		6.55041	
Ethene	536 829	567	565	516	665	426	AVRG		586		21.93197	
Ethane	602 999	670	659	597	809	818	AVRG		736		19.88517	
Propane	500 96509	1279	2602	4785	18294	38286	QUAD	0.97987	0.00153	-4.583e-00	0.99914	
N-Butane	438 114164	936	2034	3864	18446	42817	QUAD	2.46870	0.00183	-5.537e-00	0.99808	
Pentane	115 488	3945	2080	950	501	412	AVRG		1213		112	*

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





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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by RSK-175

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/09/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.**Project** LHAAP-58**Workorder****HS23060280****RunID****FID-4_322102**

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
Methane	9.647	9.597	99.49	75-125	
Ethene	16.800	19.090	113.63	75-125	
Ethane	18.043	19.657	108.95	75-125	
Propane	26.463	27.238	102.93	75-125	
N-Butane	34.955	36.010	103.02	75-125	





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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by RSK-175

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/09/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

FID-4_437509

Instrument ID FID-4.i Injection Date 08-JUN-2023 0659
 Lab File ID 001.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
 Analysis Type WATER ICAL Times 0906 1113
 Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{\text{RRF}} /$ RRF / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	845	845	0.010	13.38278	20.0	Averaged	
Ethene	586	604	604	0.010	-3.06925	20.0	Averaged	
Ethane	719	839	839	0.010	-16.56362	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

FID-4_437509

Instrument ID FID-4.i Injection Date 08-JUN-2023 1003
 Lab File ID 011.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
 Analysis Type WATER ICAL Times 0906 1113
 Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{\text{RRF}} /$ RRF / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	826	826	0.010	15.23271	20.0	Averaged	
Ethene	586	601	601	0.010	-2.58293	20.0	Averaged	
Ethane	719	821	821	0.010	-14.12173	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

FID-4_437509

Instrument ID FID-4.i Injection Date 08-JUN-2023 1358
Lab File ID 022.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{\text{RRF}} /$ RRF / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	796	796	0.010	18.40099	20.0	Averaged	
Ethene	586	603	603	0.010	-2.95780	20.0	Averaged	
Ethane	719	828	828	0.010	-15.11543	20.0	Averaged	





Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

FID-4_437509

Instrument ID FID-4.i Injection Date 08-JUN-2023 1534
Lab File ID 026.D ICAL Date(s) 24-JAN-2017 24-JAN-2017
Analysis Type WATER ICAL Times 0906 1113
Lab Sample ID RSK-CCV Quant Type ESTD

Compound	$\overline{\text{RRF}}$ / $\overline{\text{RRF}}$ / Amount	RF250	CCV RRF250	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Methane	975	793	793	0.010	18.70931	20.0	Averaged	
Ethene	586	606	606	0.010	-3.51504	20.0	Averaged	
Ethane	719	839	839	0.010	-16.64835	20.0	Averaged	





Analysis Run Log

Semi-Volatiles by RSK-175

Workorder
HS23060280

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

FID-4_322102

Run ID	FID-4_322102	Start Date	01/24/17	EndDate	01/24/17
---------------	--------------	-------------------	----------	----------------	----------

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:06	ICAL1	ICAL1	ICAL1	001.D	01/24/17	1
09:30	ICAL2	ICAL2	ICAL2	002.D	01/24/17	1
09:59	ICAL3	ICAL3	ICAL3	003.D	01/24/17	1
10:15	ICAL4	ICAL4	ICAL4	004.D	01/24/17	1
10:39	ICAL5	ICAL5	ICAL5	005.D	01/24/17	1
10:57	ICAL6	ICAL6	ICAL6	006.D	01/24/17	1
11:13	ICAL7	ICAL7	ICAL7	007.D	01/24/17	1
12:05	ICV	ICV	ICV	008.D	01/24/17	1





Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder

HS23060280

RunID

FID-4_437509

Run ID	FID-4_437509	Start Date	06/08/23	EndDate	06/08/23
--------	--------------	------------	----------	---------	----------

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
06:59	RSK-CCV	CCV	RSK-CCV	001.D	06/08/23	1
06:59	RSK-CCV	CCV	RSK-CCV	001.D	06/08/23	1
07:19	MBLK-230608	MBLK	MBLK-230608	002.D	06/08/23	1
07:19	MBLK-230608	MBLK	MBLK-230608	002.D	06/08/23	1
07:44	LCS-230608	LCS	LCS-230608	003.D	06/08/23	1
07:44	LCS-230608	LCS	LCS-230608	003.D	06/08/23	1
08:08	LCSD-230608	LCSD	LCSD-230608	004.D	06/08/23	1
08:08	LCSD-230608	LCSD	LCSD-230608	004.D	06/08/23	1
08:23	35AWW19_060523	SAMP	HS23060280-01	005.D	06/08/23	1
08:44	35AWW20_060523	SAMP	HS23060280-02	006.D	06/08/23	1
08:52	LHSMW07_060523	SAMP	HS23060280-03	007.D	06/08/23	1
09:07	35AWW06_060523	SAMP	HS23060280-04	008.D	06/08/23	1
09:20	35AWW23_060523	SAMP	HS23060280-05	009.D	06/08/23	1
09:37	35AWW11_060523	SAMP	HS23060280-06	010.D	06/08/23	1
10:03	RSK-CCV	CCV	RSK-CCV	011.D	06/08/23	1
10:03	RSK-CCV	CCV	RSK-CCV	011.D	06/08/23	1
10:26	HS23060280-01DUP	DUP	HS23060280-01DUP	012.D	06/08/23	1
10:54	35AWW20_060523	SAMP	HS23060280-02	013.D	06/08/23	100
11:09	LHSMW07_060523	SAMP	HS23060280-03	014.D	06/08/23	100
12:17	35AWW06_060523	SAMP	HS23060280-04	015.D	06/08/23	200
12:37	35AWW23_060523	SAMP	HS23060280-05	016.D	06/08/23	200
12:52	35AWW11_060523	SAMP	HS23060280-06	017.D	06/08/23	200
13:03	ZZZZZZZZZZ	SAMP	HS23060392-01	018.D	06/08/23	1
13:18	ZZZZZZZZZZ	SAMP	HS23060393-01	019.D	06/08/23	1
13:33	ZZZZZZZZZZ	SAMP	HS23060394-01	020.D	06/08/23	1
13:45	ZZZZZZZZZZ	SAMP	HS23060393-01	021.D	06/08/23	10
13:58	RSK-CCV	CCV	RSK-CCV	022.D	06/08/23	1
13:58	RSK-CCV	CCV	RSK-CCV	022.D	06/08/23	1
14:15	ZZZZZZZZZZ	SAMP	HS23060355-03	023.D	06/08/23	1
14:34	ZZZZZZZZZZ	SAMP	HS23060438-02	024.D	06/08/23	1
15:34	RSK-CCV	CCV	RSK-CCV	026.D	06/08/23	1
15:34	RSK-CCV	CCV	RSK-CCV	026.D	06/08/23	1





Raw Data FID-4 322102

Semi-Volatiles by RSK-175

Workorder
HS23060280

Client
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Project
LHAAP-58

06/09/2023

ALS Environmental—Houston Laboratory

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Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
 Report Date: 28-Sep-2022 10:00

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
 Lab Smp Id: ICAL1 Client Smp ID: ICAL1
 Inj Date : 24-JAN-2017 09:06
 Operator : JA Inst ID: FID-4.i
 Smp Info : ICAL1;ICAL1;;;
 Misc Info :
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	1.043	1.043	0.000	374		0.38600	0.383(a)
2 Ethene	1.553	1.553	0.000	361		0.67400	0.615(a)
3 Ethane	1.716	1.716	0.000	435		0.72200	0.590(a)
4 Propane	4.073	4.073	0.000	500		1.05900	1.743
5 N-Butane	7.640	7.640	0.000	438		1.39800	3.271

QC Flag Legend

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



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\001.D

Date : 24-JAN-2017 09:06

Client ID: ICAL1

Sample Info: ICAL1;ICAL1;;

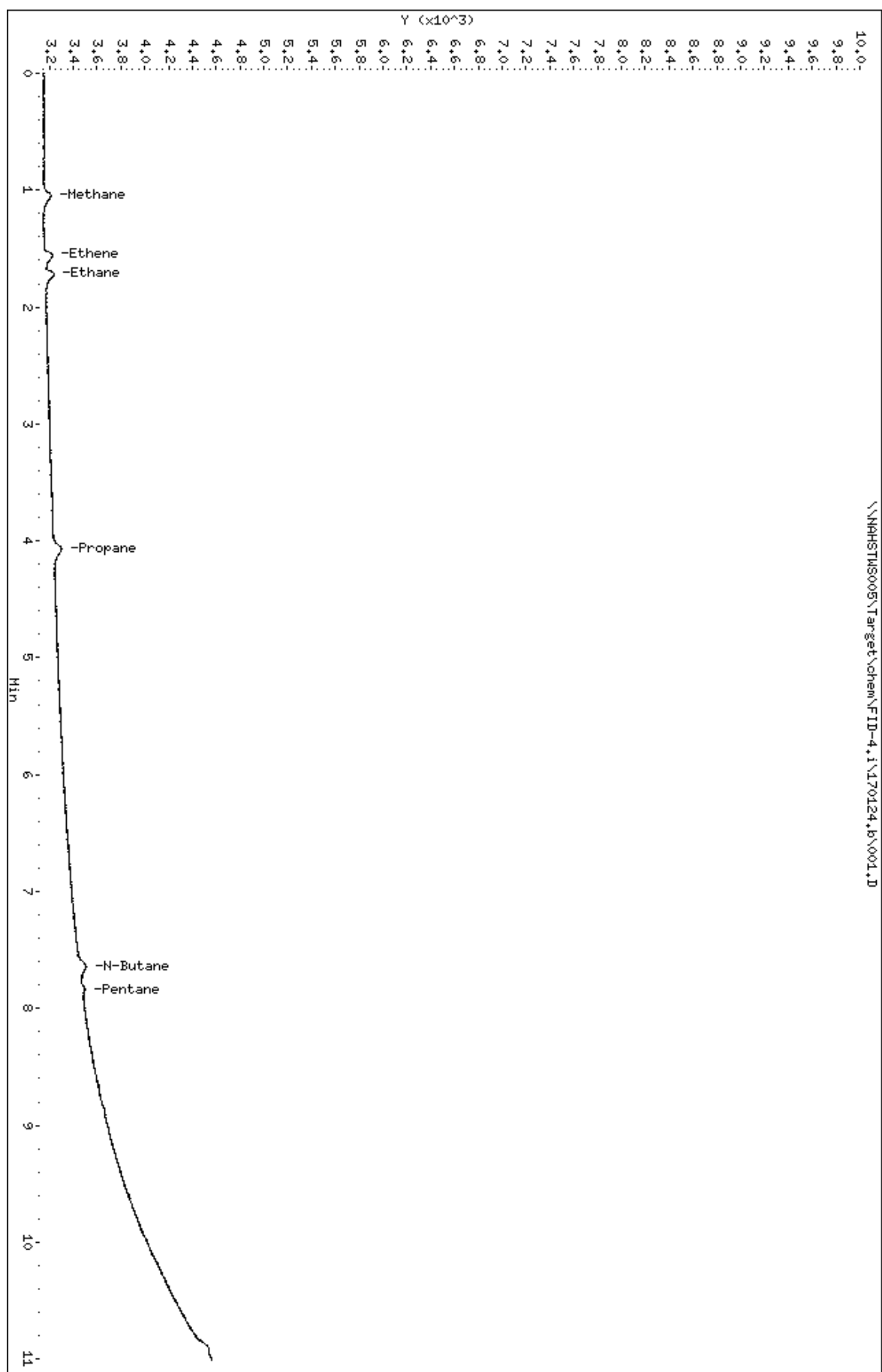
Page 1

Column phase: Rtx-PL0T

Instrument: FID-4.i

Operator: JH

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\001.D
Inj Date : 24-JAN-2017 09:06
InstruID : FID-4.i
LabSampID : ICAL1

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
 Lab Smp Id: ICAL2 Client Smp ID: ICAL2
 Inj Date : 24-JAN-2017 09:30
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL2;ICAL2;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 09:06 Cal File: 001.D
 Als bottle: 2 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	1.023	1.023	0.000	944		0.96500	0.968
2 Ethene	1.560	1.560	0.000	956		1.68500	1.630
3 Ethane	1.723	1.723	0.000	1209		1.80400	1.641
4 Propane	4.123	4.123	0.000	1279		2.64600	2.927
5 N-Butane	7.716	7.716	0.000	936		3.49600	4.180



Data File: \\NAHSTMS005\Target\chem\FID-4.1\170124.B\002.D

Date : 24-JAN-2017 09:30

Client ID: ICAL2

Sample Info: ICAL2;ICAL2;1;

Page 1

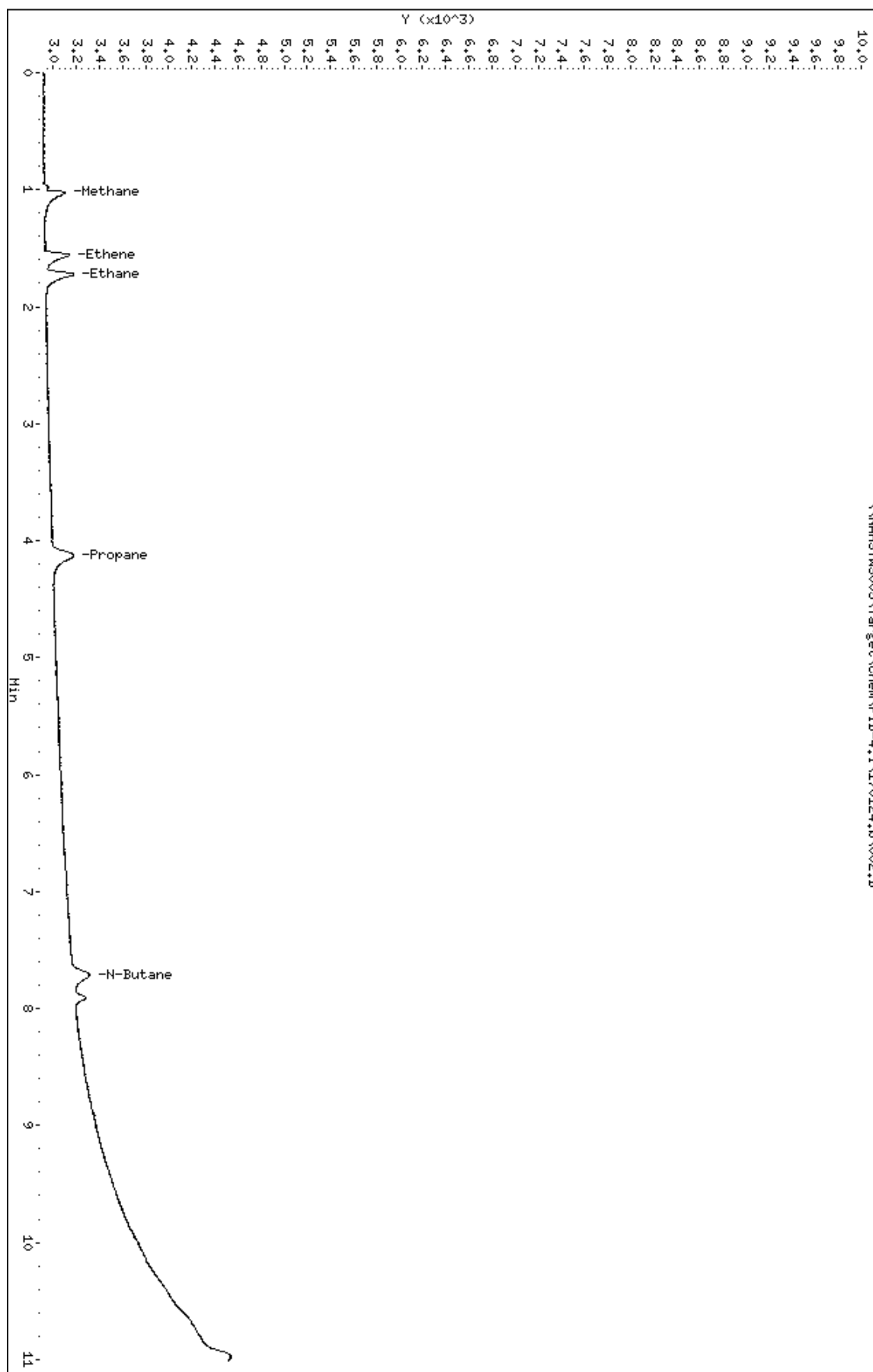
Column phase: RtX-PL0T

Instrument: FID-4.1

Operator: MH

Column diameter: 0.53

\\NAHSTMS005\Target\chem\FID-4.1\170124.B\002.D



Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\002.D
Inj Date : 24-JAN-2017 09:30
InstruID : FID-4.i
LabSampID : ICAL2

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
 Lab Smp Id: ICAL3 Client Smp ID: ICAL3
 Inj Date : 24-JAN-2017 09:59
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL3;ICAL3;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 09:30 Cal File: 002.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	1.043	1.043	0.000	1967		1.92900	2.018
2 Ethene	1.570	1.570	0.000	1904		3.37000	3.247
3 Ethane	1.736	1.736	0.000	2378		3.60900	3.229
4 Propane	4.123	4.123	0.000	2602		5.29300	4.926
5 N-Butane	7.703	7.703	0.000	2034		6.99100	6.176



Data File: \\NAHSTMS005\Target\chem\FID-4,1\170124,b\003.D

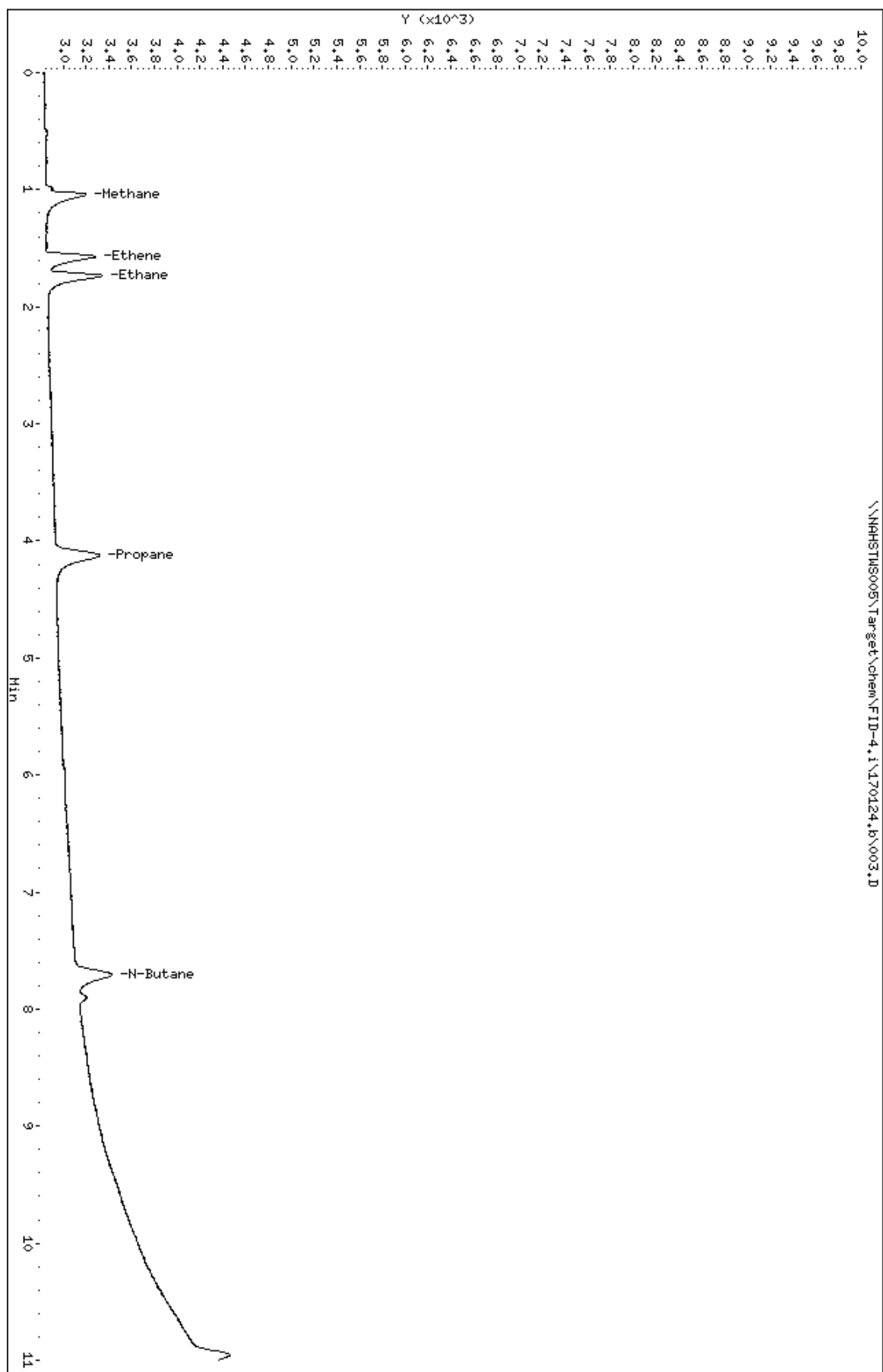
Date : 24-JAN-2017 09:59

Client ID: ICAL3

Sample Info: ICAL3;ICAL3;;

Page 1

Column phase: Rtx-PL0T

Instrument: FID-4,1
Operator: HQ
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\003.D
Inj Date : 24-JAN-2017 09:59
InstruID : FID-4.i
LabSampID : ICAL3

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D

Page 1

Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\004.D
 Lab Smp Id: ICAL4 Client Smp ID: ICAL4
 Inj Date : 24-JAN-2017 10:15
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL4;ICAL4;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
 Als bottle: 4 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	1.033	1.033	0.000	3399		3.85900	3.488
2 Ethene	1.563	1.563	0.000	3478		6.74000	5.932
3 Ethane	1.726	1.726	0.000	4310		7.21700	5.853
4 Propane	4.120	4.120	0.000	4785		10.5850	8.190
5 N-Butane	7.703	7.703	0.000	3864		13.9820	9.473(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\004.D

Page 1

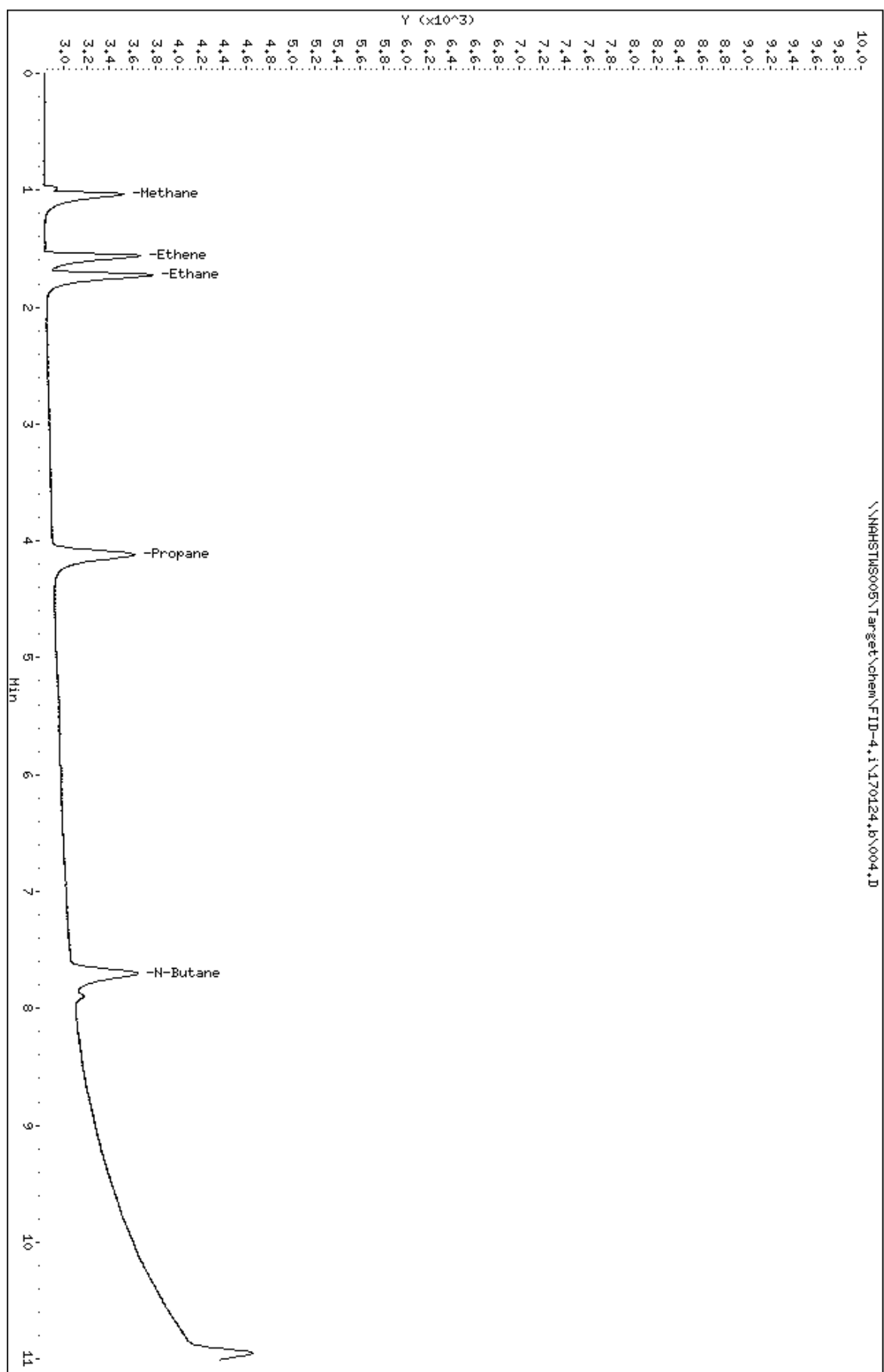
Date : 24-JAN-2017 10:15

Client ID: ICAL4

Instrument: FID-4.i

Sample Info: ICAL4;ICAL4;;;

Column phase: RTX-PL0T

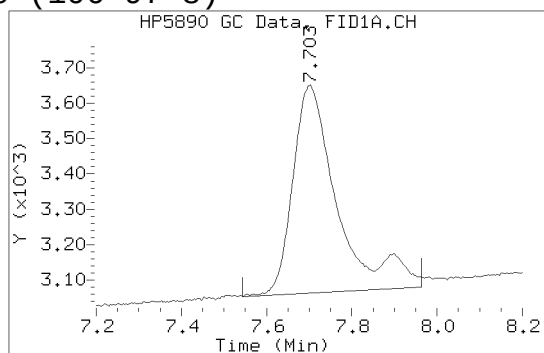
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Column diameter: 0.53

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Inj Date : 24-JAN-2017 10:15
InstruID : FID-4.i
LabSampID : ICAL4

N-Butane (106-97-8)

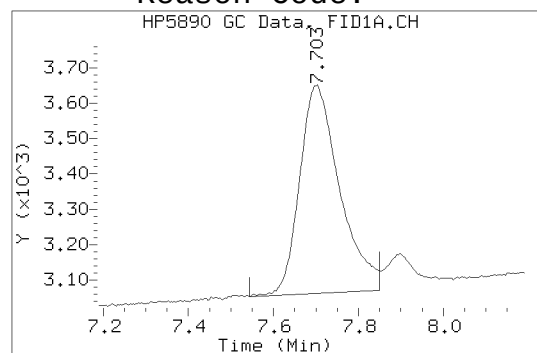
BEFORE

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591
28-Sep-2022
10:02
linh
pham



AFTER

MASS
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AREA
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HEIGHT
591
28-Sep-2022
10:02
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D

Page 1

Report Date: 28-Sep-2022 10:02

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\005.D
 Lab Smp Id: ICAL5 Client Smp ID: ICAL5
 Inj Date : 24-JAN-2017 10:39
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL5;ICAL5;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:02 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 5 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	1.043	1.043	0.000	9268		9.64700	9.511
2 Ethene	1.570	1.570	0.000	11210		16.8500	19.121
3 Ethane	1.733	1.733	0.000	14588		18.0430	19.811
4 Propane	4.120	4.120	0.000	18294		26.4630	27.415
5 N-Butane	7.700	7.700	0.000	18446		34.9550	34.419(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\005.D

Page 1

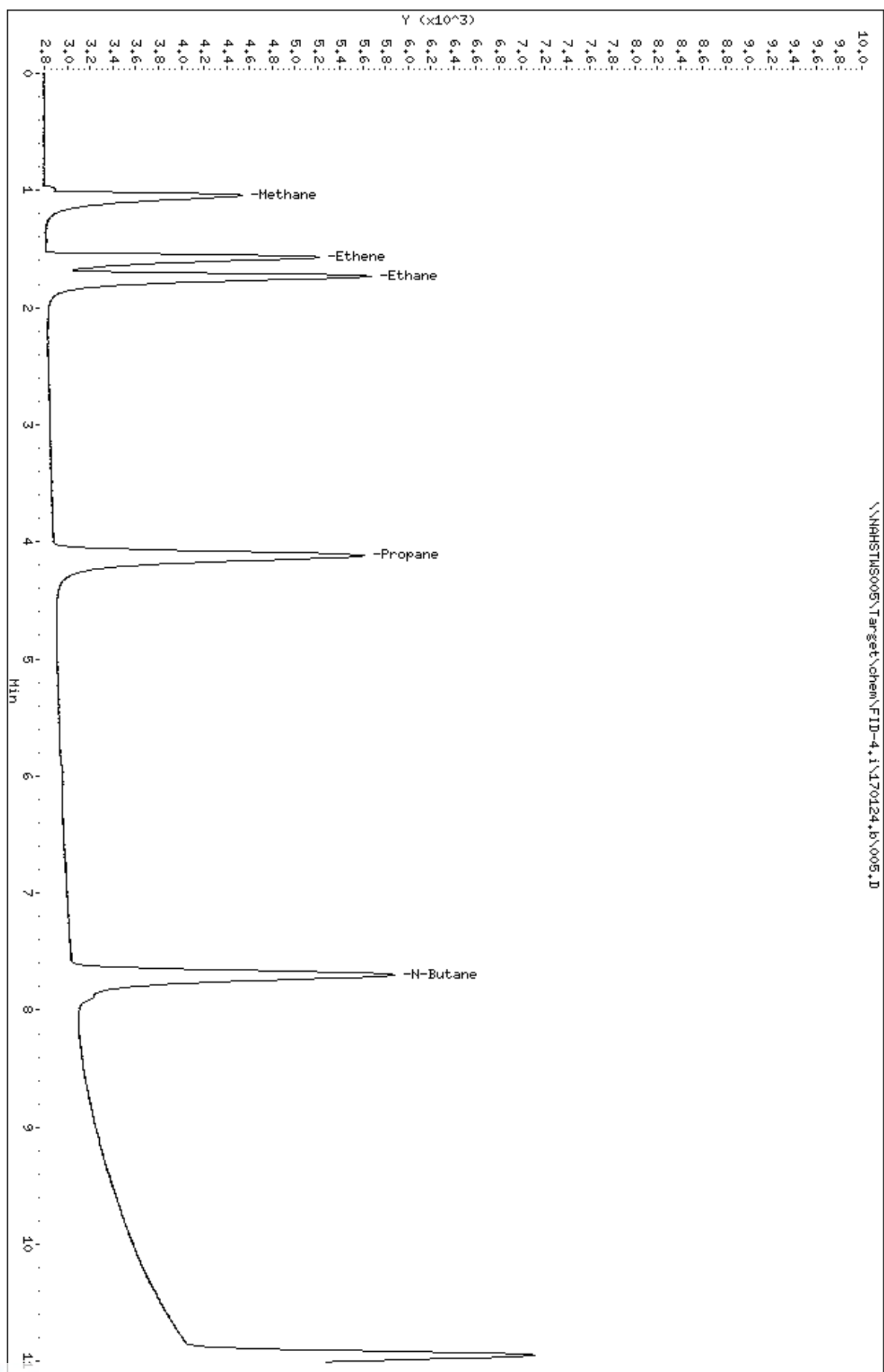
Date: 24-JAN-2017 10:39

Client ID: ICAL5

Instrument: FID-4.i

Sample Info: ICAL5;ICAL5;;

Column phase: Rtx-PL01

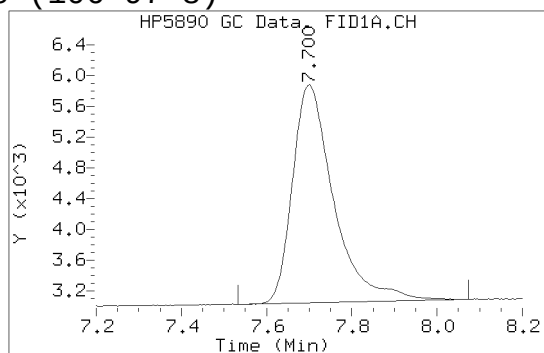
Operator: MA
Column diameter: 0.53

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Inj Date : 24-JAN-2017 10:39
InstruID : FID-4.i
LabSampID : ICAL5

N-Butane (106-97-8)

BEFORE

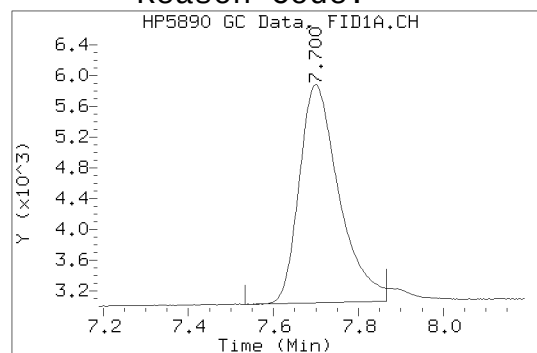
MASS
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AREA
19142
HEIGHT
2839
28-Sep-2022
10:02
linh
pham



AFTER

MASS
100
AREA
18446
HEIGHT
2838
28-Sep-2022
10:02
linh
pham

Reason Code:



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
 Lab Smp Id: ICAL6 Client Smp ID: ICAL6
 Inj Date : 24-JAN-2017 10:57
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL6;ICAL6;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:39 Cal File: 005.D
 Als bottle: 6 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	1.023	1.023	0.000	17957		19.2940	18.429
2 Ethene	1.550	1.550	0.000	22910		53.8200	39.078
3 Ethane	1.716	1.716	0.000	29505		36.0860	40.070
4 Propane	4.110	4.110	0.000	38286		52.9260	52.796
5 N-Butane	7.696	7.696	0.000	42817		69.9110	70.855



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\006.D

Page 1

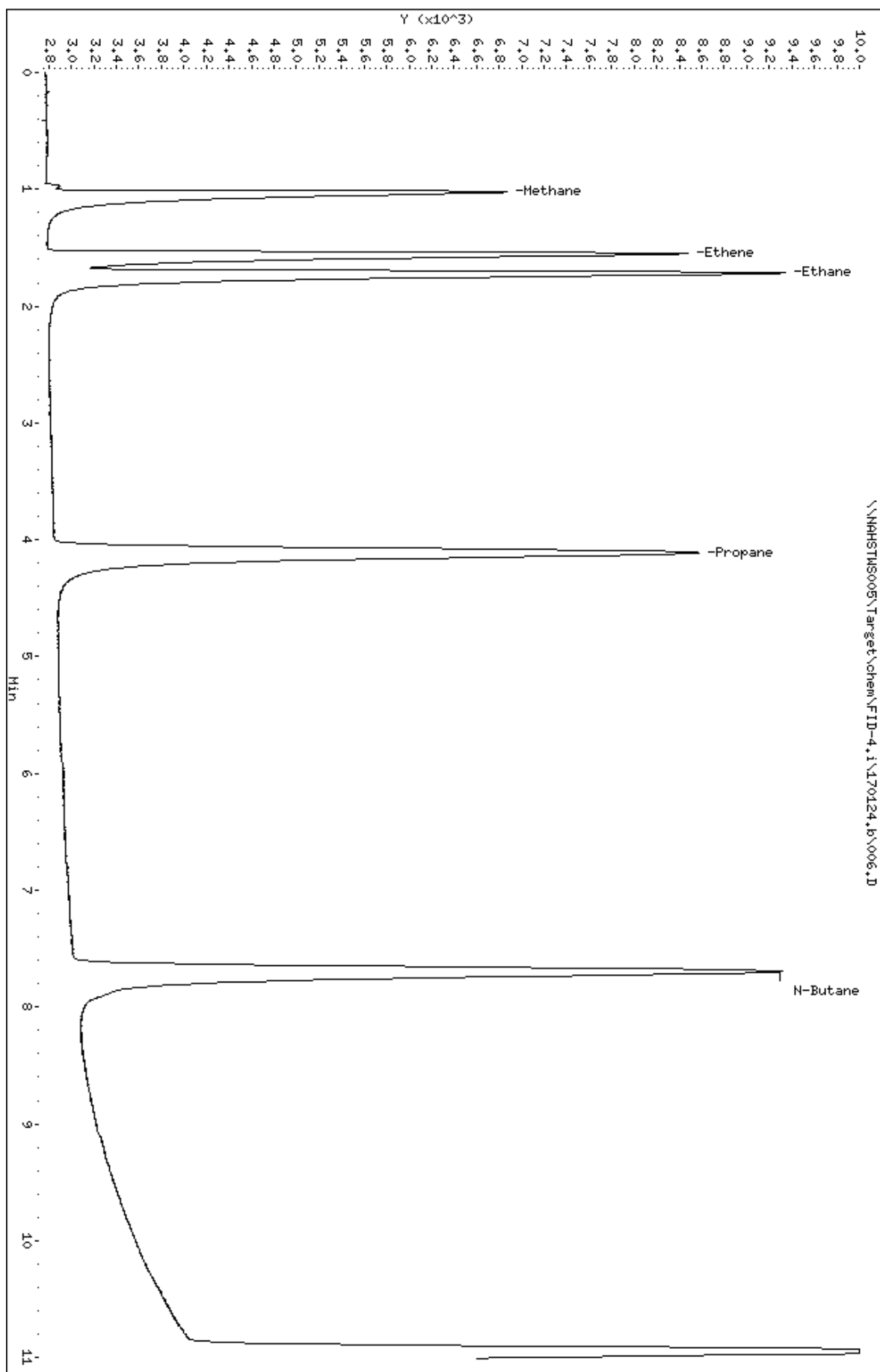
Date : 24-JAN-2017 10:57

Client ID: ICAL6

Instrument: FID-4.i

Sample Info: ICAL6;ICAL6;??

Column phase: Rtx-PL0T

Operator: M4
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\006.D
Inj Date : 24-JAN-2017 10:57
InstruID : FID-4.i
LabSampID : ICAL6

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
 Lab Smp Id: ICAL7 Client Smp ID: ICAL7
 Inj Date : 24-JAN-2017 11:13
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICAL7;ICAL7;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:57 Cal File: 006.D
 Als bottle: 7 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====	=====
1 Methane	1.030	1.030	0.000	41736	38.5880	42.833(A)
2 Ethene	1.556	1.556	0.000	55865	67.4000	95.291(A)
3 Ethane	1.723	1.723	0.000	72124	72.1720	97.951(A)
4 Propane	4.113	4.113	0.000	96509	105.852	105.844
5 N-Butane	7.690	7.690	0.000	114164	139.821	139.707

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTMS005\Target\chem\FID-4.1\170124.b\007.D

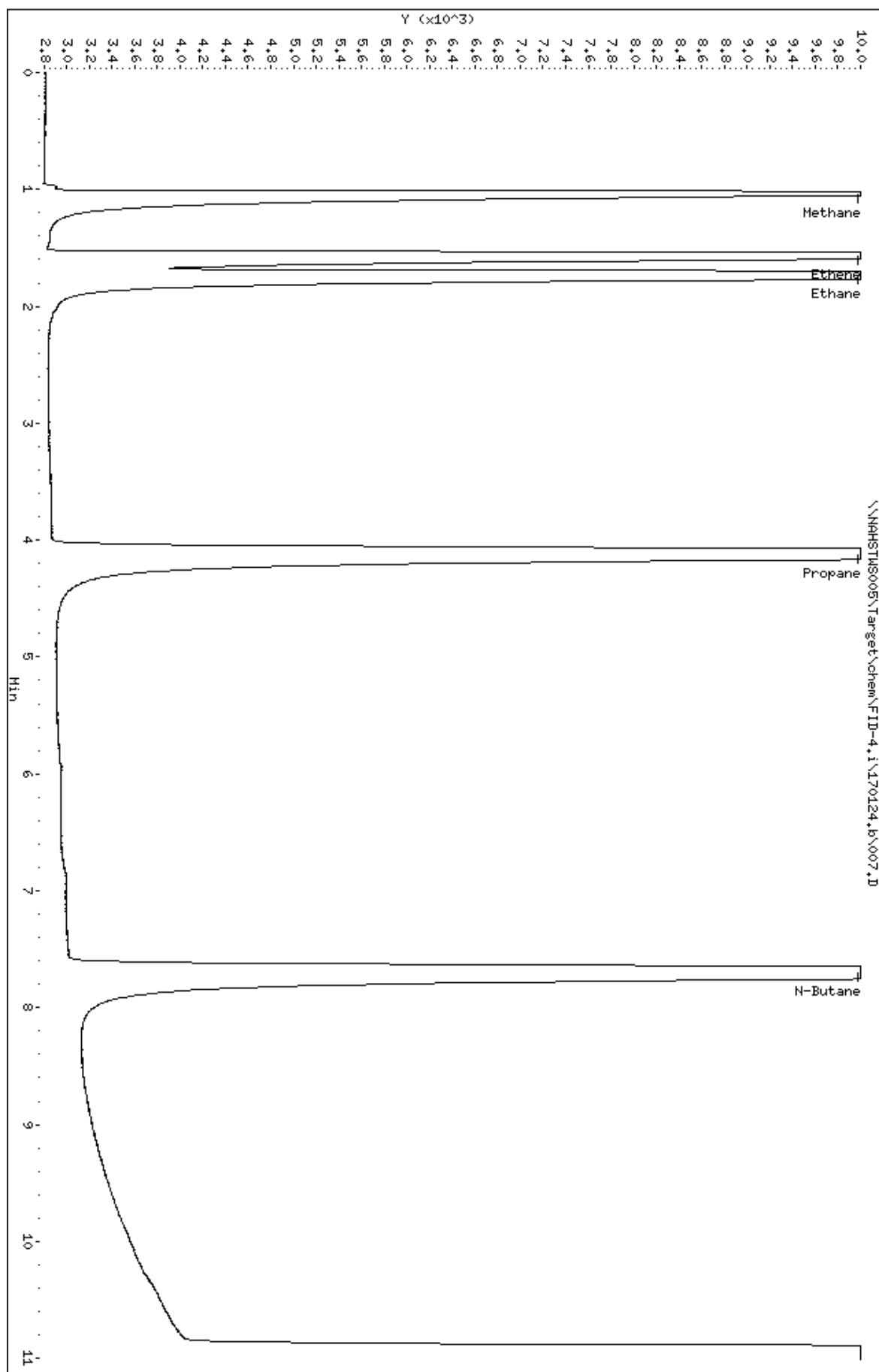
Date : 24-JAN-2017 11:13

Client ID: ICAL7

Sample Info: ICAL7;ICAL7;??

Page 1

Column phase: Rtx-PL0T

Operator: HQ
Instrument: FID-4.1
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\007.D
Inj Date : 24-JAN-2017 11:13
InstruID : FID-4.i
LabSampID : ICAL7

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D

Page 1

Report Date: 28-Sep-2022 10:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
 Lab Smp Id: ICV Client Smp ID: ICV
 Inj Date : 24-JAN-2017 12:05
 Operator : MA Inst ID: FID-4.i
 Smp Info : ICV;ICV;;;
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\RSKNI2.m
 Meth Date : 28-Sep-2022 10:00 FID-4.i Quant Type: ESTD
 Cal Date : 24-JAN-2017 11:13 Cal File: 007.D
 Als bottle: 8 QC Sample: METHSPIKE
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: stdNIP2.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====
1 Methane	1.046	1.030	0.016	9352	9.59792	9.597
2 Ethene	1.573	1.556	0.017	11192	19.0906	19.090
3 Ethane	1.736	1.723	0.013	14474	19.6571	19.657
4 Propane	4.116	4.113	0.003	18164	27.2381	27.238
5 N-Butane	7.696	7.690	0.006	19425	36.0103	36.010



Data File: \\NAHSTMS005\Target\chem\FID-4.i\170124.b\008.D

Page 1

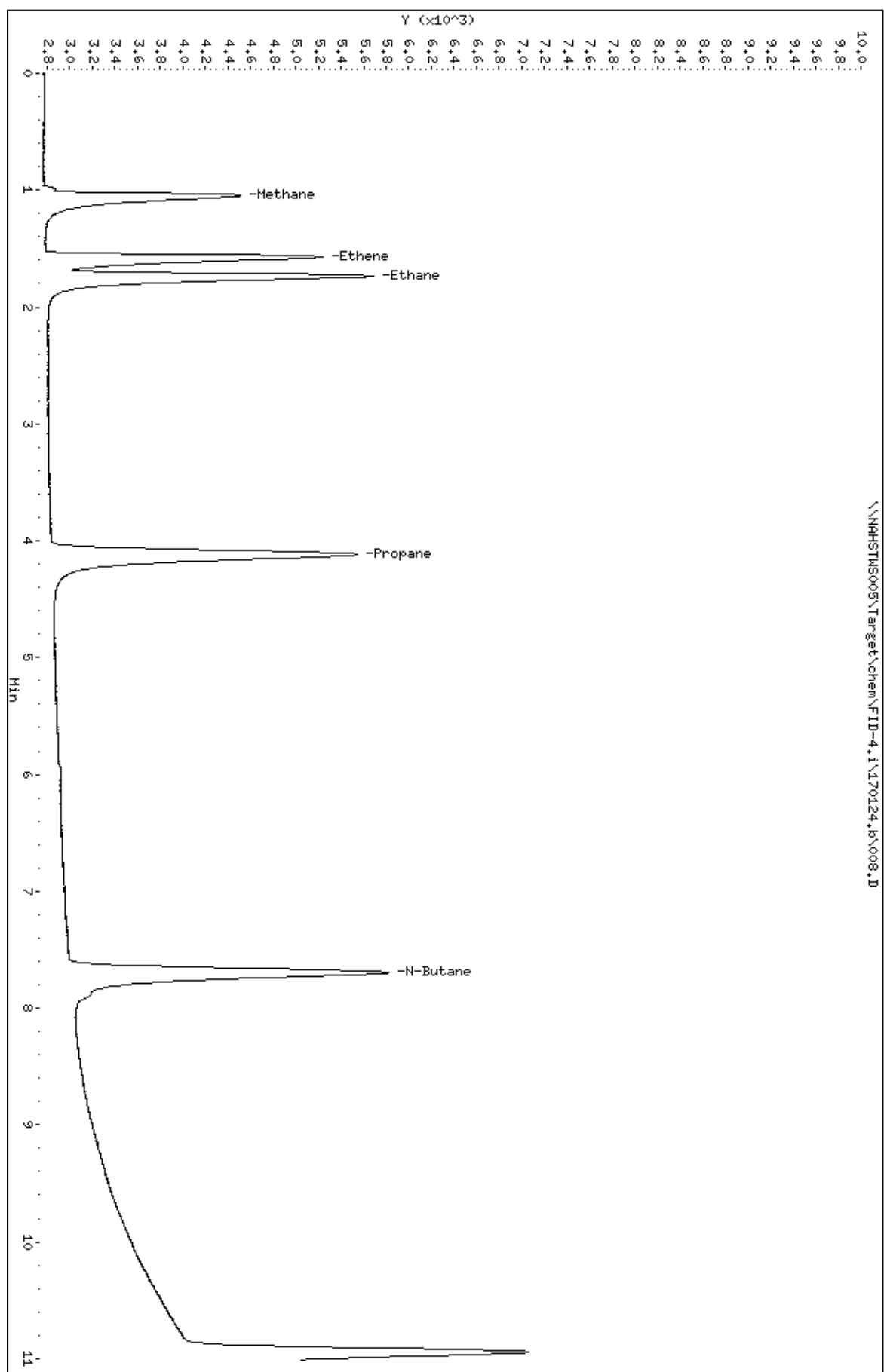
Date : 24-JAN-2017 12:05

Client ID: ICV

Instrument: FID-4.i

Sample Info: ICV;ICV;??

Column phase: RTX-PL0T

Operator: MA
Column diameter: 0.53

Data File : \\NAHSTWS005\Target\chem\FID-4.i\170124.b\008.D
Inj Date : 24-JAN-2017 12:05
InstruID : FID-4.i
LabSampID : ICV

NO MANUAL INTEGRATIONS





Raw Data FID-4 437509

Semi-Volatiles by RSK-175

Workorder
HS23060280

Client
Bhate Environmental Associates, Inc.

Project
LHAAP-58

06/09/2023

ALS Environmental—Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com



Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\001.D

Page 1

Report Date: 08-Jun-2023 08:03

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\001.D
 Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
 Inj Date : 08-JUN-2023 06:59
 Operator : PL Inst ID: FID-4.i
 Smp Info : RSK-CCV;RSK-CCV;2;4
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 08:03 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT (ug/L)	ON-COL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	0.426	0.426	0.000	8147		9.64700	8.355
2 Ethene	0.643	0.643	0.000	10173		16.8500	17.367
3 Ethane	0.710	0.710	0.000	15132		18.0430	21.031



Data File: \\nahstus005\Target\chem\FID-4.i\230608.b\001.D

Date : 08-JUN-2023 06:59

Client ID: RSK-CCV

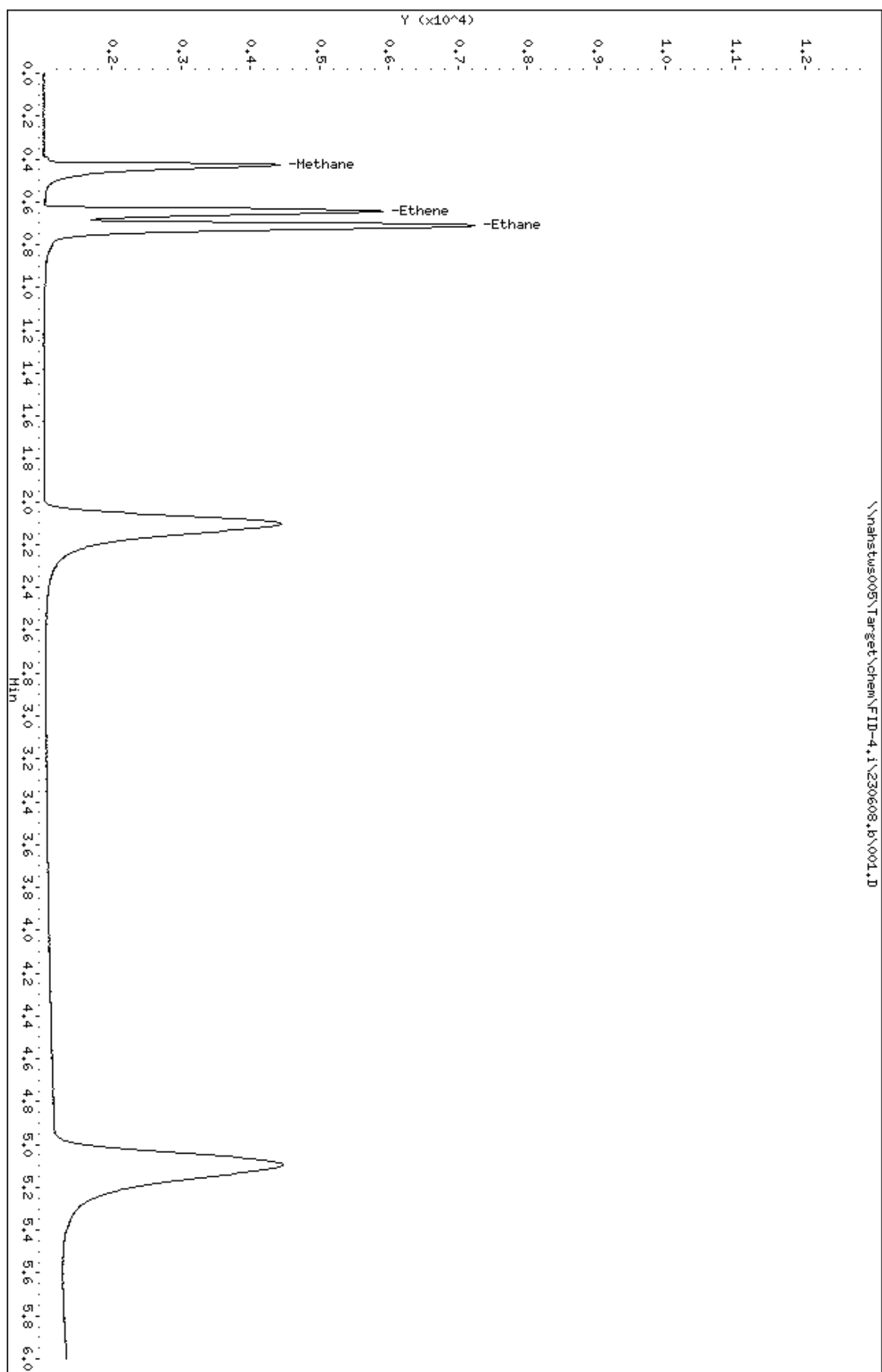
Sample Info: RSK-CCV\RSK-CCV\2;4

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Column phase: Rtx-PL0T



Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\001.D
Inj Date : 08-JUN-2023 06:59
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS



Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\002.D
Report Date: 08-Jun-2023 08:05

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\002.D
Lab Smp Id: MBLK-230608 Client Smp ID: MBLK-230608
Inj Date : 08-JUN-2023 07:19
Operator : PL Inst ID: FID-4.i
Smp Info : MBLK-230608;MBLK-230608;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
Meth Date : 08-Jun-2023 08:03 samy.mata Quant Type: ESTD
Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====



Data File: \\nahstus005\Target\chem\FID-4.1\230608.b\002.D

Date : 08-JUN-2023 07:19

Client ID: MBLK-230608

Sample Info: MBLK-230608+MBLK-230608;3;:BLANK

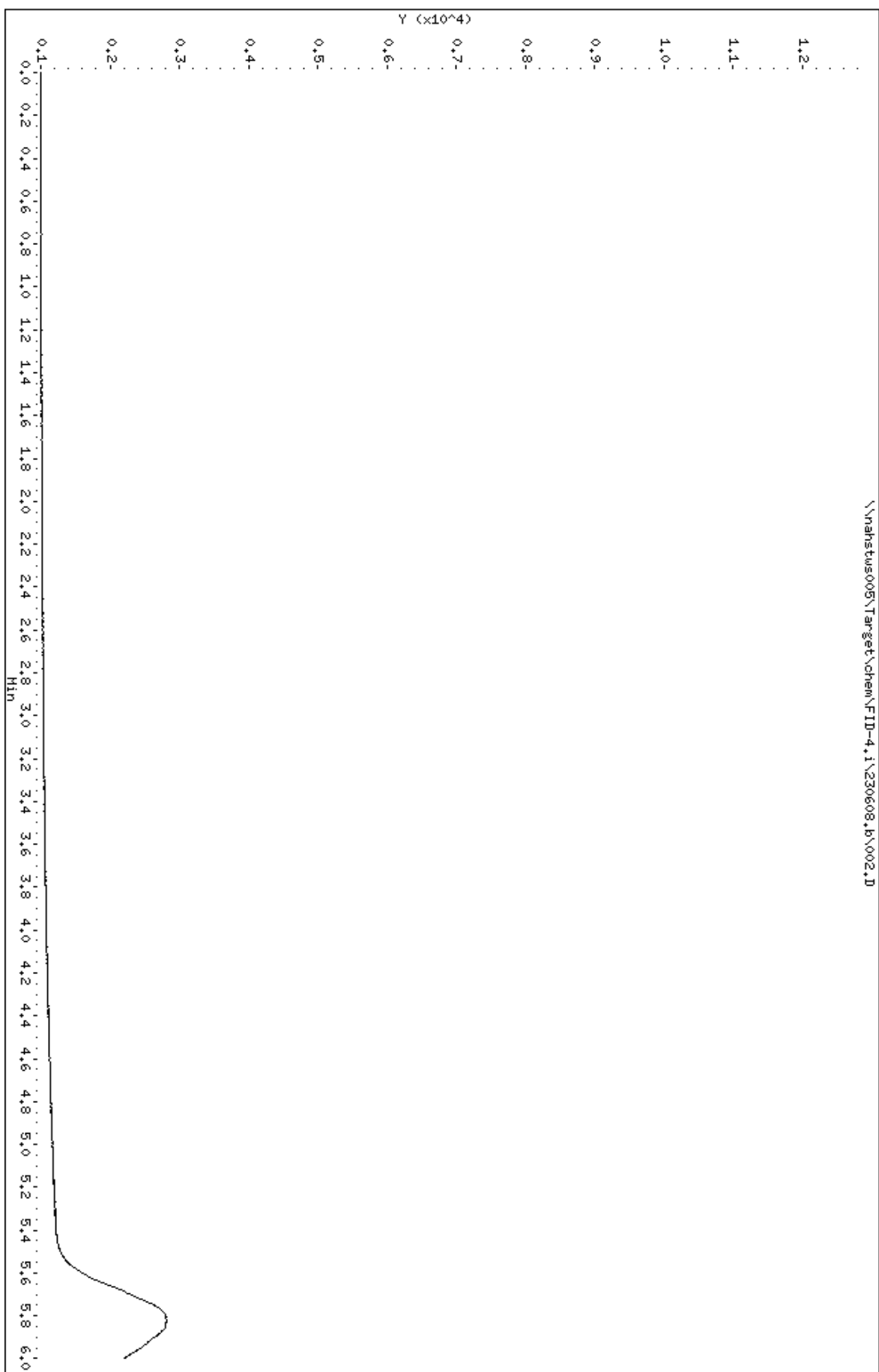
Page 1

Instrument: FID-4.1

Operator: PL

Column diameter: 0.53

Column phase: RTX-PL0T



Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\002.D
Inj Date : 08-JUN-2023 07:19
InstruID : FID-4.i
LabSampID : MBLK-230608

NO MANUAL INTEGRATIONS



Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\003.D

Page 1

Report Date: 09-Jun-2023 10:37

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\003.D
 Lab Smp Id: LCS-230608 Client Smp ID: LCS-230608
 Inj Date : 08-JUN-2023 07:44
 Operator : PL Inst ID: FID-4.i
 Smp Info : LCS-230608;LCS-230608;3;;LCS
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 16:07 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 3 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN	FINAL
					(ug/L)	(ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	0.430	0.423	0.007	7802	8.00211	8.002
2 Ethene	0.643	0.640	0.003	10474	17.8810	17.881(M)
3 Ethane	0.713	0.706	0.007	15065	20.9385	20.938(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\nahstus005\Target\chem\FID-4.i\230608.b\003.D

Date : 08-JUN-2023 07:44

Client ID: LCS-230608

Sample Info: LCS-230608;LCS-230608;3;LCS

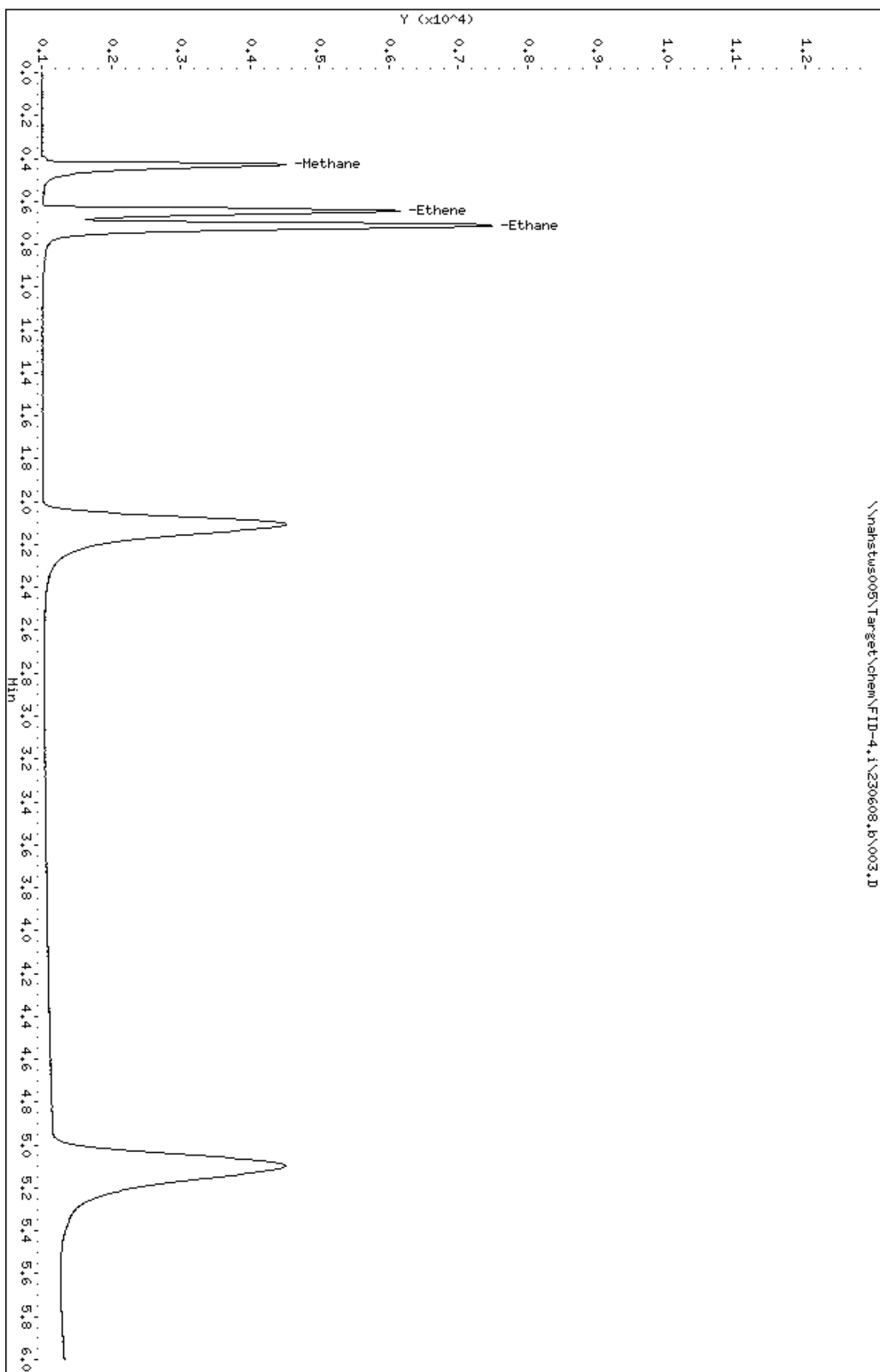
Column phase: Rtx-PL01

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

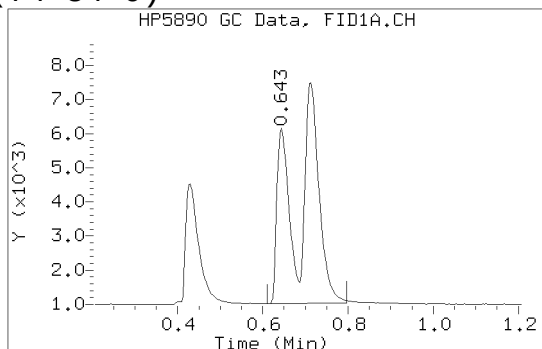
Page 1



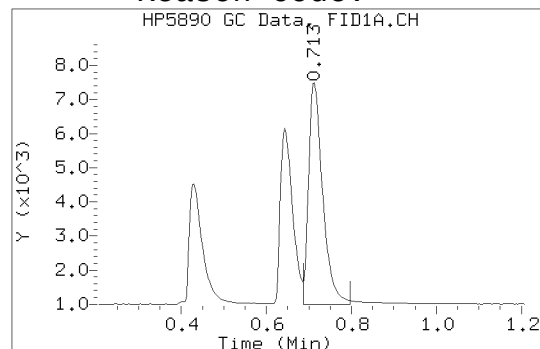
Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\003.D
Inj Date : 08-JUN-2023 07:44
InstruID : FID-4.i
LabSampID : LCS-230608

Ethane (74-84-0)**BEFORE**

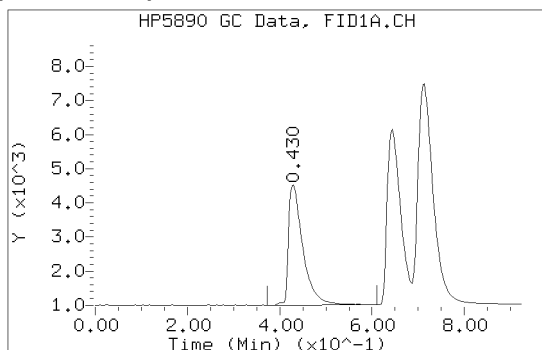
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44
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HEIGHT
5137
08-Jun-2023
07:51
ALSHS
Server

**AFTER**

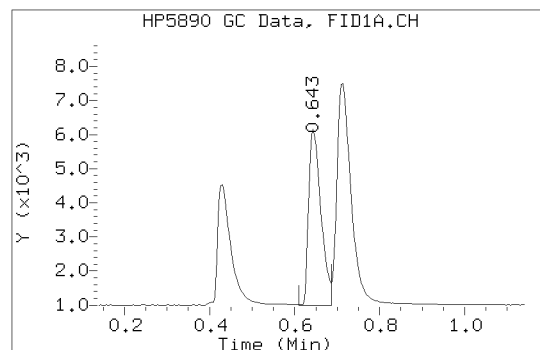
MASS
44
AREA
15065
HEIGHT
6493
09-Jun-2023
10:37
ALSHS
Ser

Reason Code:**Ethene (74-85-1)****BEFORE**

MASS
100
AREA
0
HEIGHT
0
08-Jun-2023
07:51
ALSHS
Server

**AFTER**

MASS
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AREA
10474
HEIGHT
5160
09-Jun-2023
10:37
ALSHS
Ser

Reason Code:

Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\004.D

Page 1

Report Date: 09-Jun-2023 10:32

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\004.D
 Lab Smp Id: LCSD-230608 Client Smp ID: LCSD-230608
 Inj Date : 08-JUN-2023 08:08
 Operator : PL Inst ID: FID-4.i
 Smp Info : LCSD-230608;LCSD-230608;3;;LCSD
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 16:07 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 4 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	0.426	0.423	0.003	7852	8.05340	8.053
2 Ethene	0.640	0.640	0.000	10194	17.4030	17.403
3 Ethane	0.710	0.706	0.004	15079	20.9579	20.957



Data File: \\nahstus005\Target\chem\FID-4.1\230608.b\004.D

Date : 08-JUN-2023 08:08

Client ID: LCSD-230608

Sample Info: LCSD-230608;LCSD-230608;3;LCSD

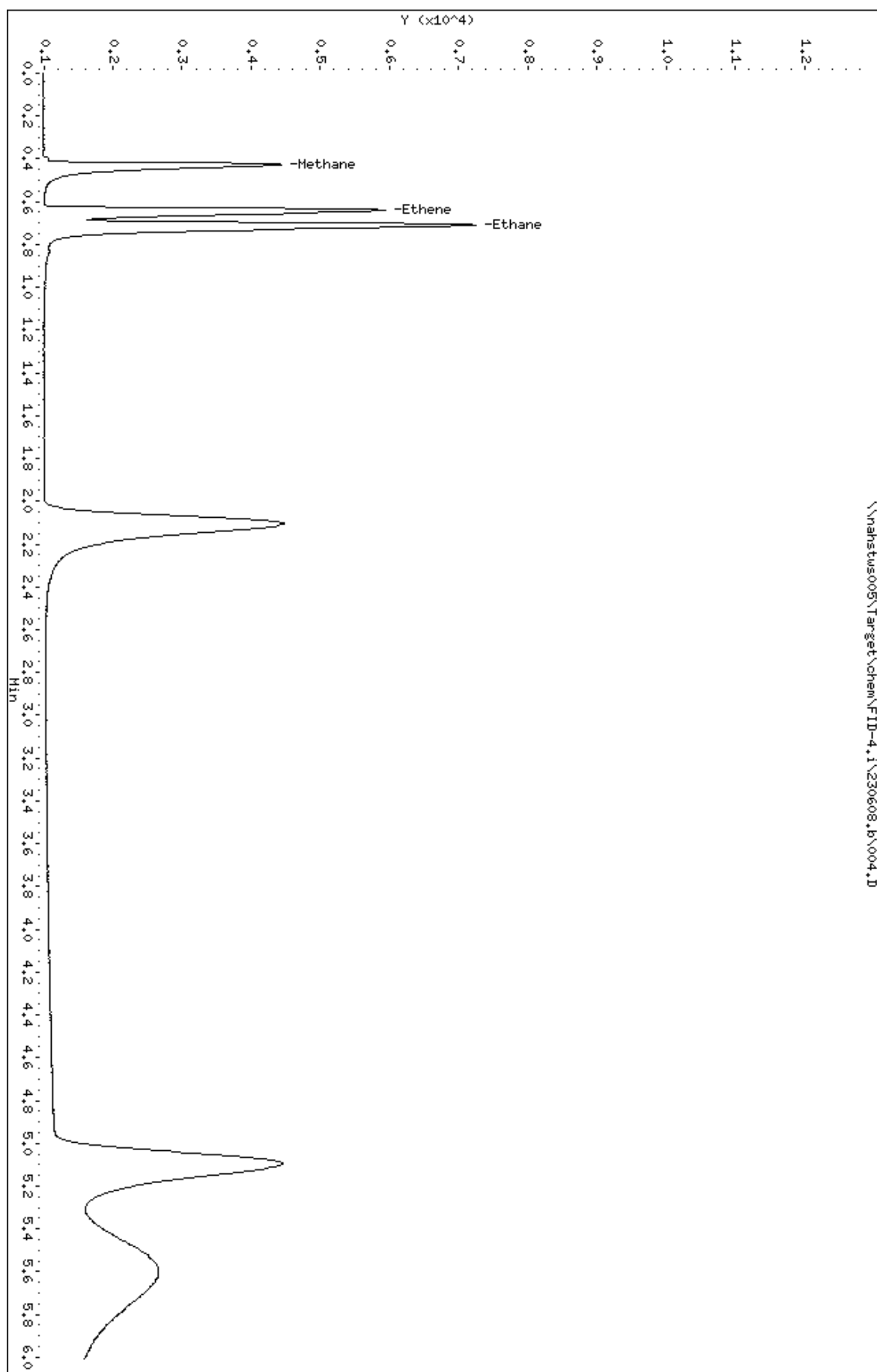
Column phase: Rtx-PL0T

Instrument: FID-4.1

Operator: PL

Column diameter: 0.53

Page 1



Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\004.D
Inj Date : 08-JUN-2023 08:08
InstruID : FID-4.i
LabSampID : LCSD-230608

NO MANUAL INTEGRATIONS



Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\005.D

Page 1

Report Date: 08-Jun-2023 10:46

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\005.D
 Lab Smp Id: HS23060280-01 Client Smp ID: HS23060280-01
 Inj Date : 08-JUN-2023 08:23
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23060280-01;HS23060280-01
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 10:15 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN	FINAL
						(ug/L)	(ug/L)
	====	=====	=====	=====		=====	=====
1 Methane	0.430	0.430	0.000	1246		1.27796	1.277



Data File: \\nahstus005\Target\chem\FID-4.i\230608.b\005.D

Page 1

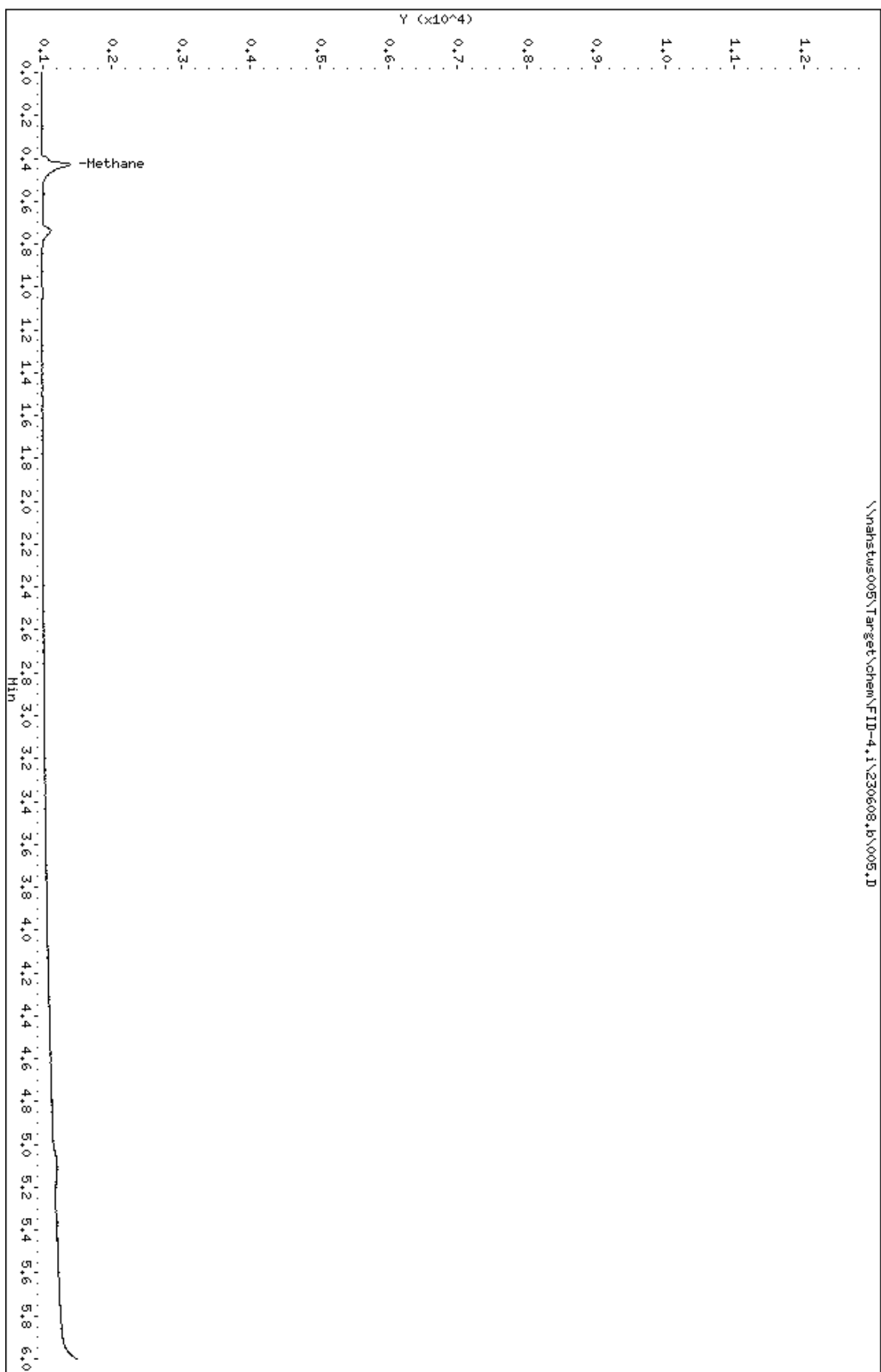
Date : 08-JUN-2023 08:23

Client ID: HS23060280-01

Instrument: FID-4.i

Sample Info: HS23060280-01;HS23060280-01

Column phase: Rtx-PL01

Operator: PL
Column diameter: 0.53

Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\005.D
Inj Date : 08-JUN-2023 08:23
InstruID : FID-4.i
LabSampID : HS23060280-01

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230608.b\006.D
 Report Date: 09-Jun-2023 12:35

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230608.b\006.D
 Lab Smp Id: HS23060280-02 Client Smp ID: HS23060280-02
 Inj Date : 08-JUN-2023 08:44
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23060280-02;HS23060280-02
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 16:07 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====		=====	=====
1 Methane	0.430	0.423	0.007	3206973		3289.23	3289.228(A)
2 Ethene	0.633	0.640	-0.007	22768		38.8691	38.869(M)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230608.b\006.D

Date : 08-JUN-2023 08:44

Client ID: HS23060280-02

Sample Info: HS23060280-02;HS23060280-02

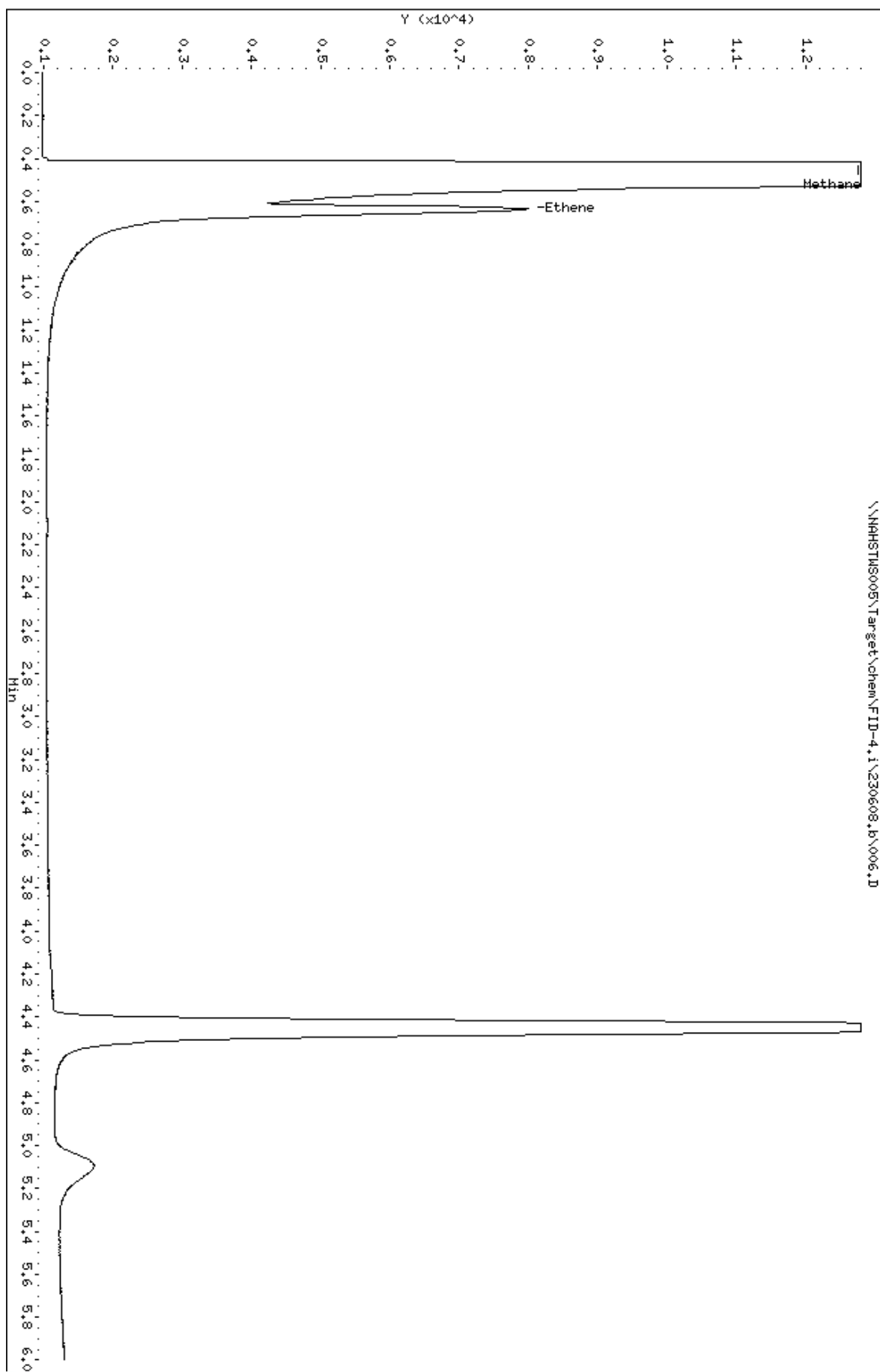
Page 1

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Column phase: Rtx-PL01

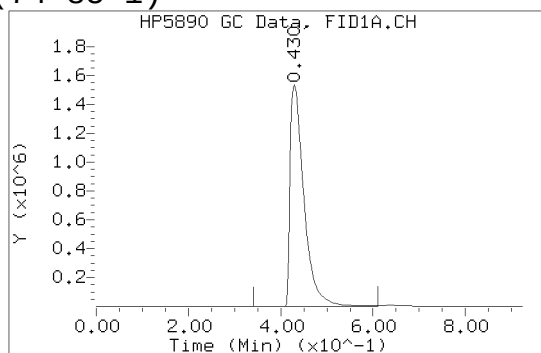


Data File : \\NAHSTWS005\\Target\\chem\\FID-4.i\\230608.b\\006.D
Inj Date : 08-JUN-2023 08:44
InstruID : FID-4.i
LabSampID : HS23060280-02

Ethene (74-85-1)

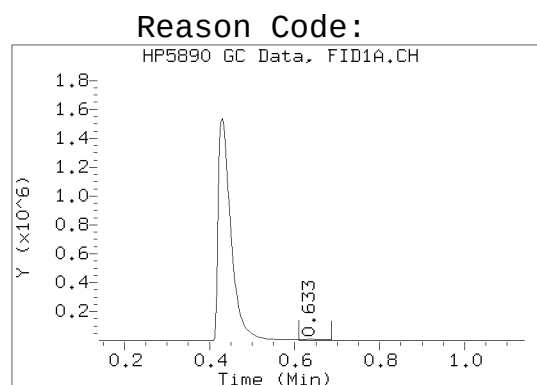
BEFORE

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HEIGHT
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08-Jun-2023
08:52
ALSHS
Server



AFTER

MASS
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AREA
22768
HEIGHT
6981
09-Jun-2023
12:35
ALSHS
Ser



Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\007.D
 Report Date: 08-Jun-2023 10:11

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\007.D
 Lab Smp Id: HS23060280-03 Client Smp ID: HS23060280-03
 Inj Date : 08-JUN-2023 08:52
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23060280-03;HS23060280-03
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 10:10 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
					ON-COLUMN	FINAL	
	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)	
=====	====	=====	=====	=====	=====	=====	
1 Methane	0.423	0.430	-0.007	2712981	2782.57	2782.566(AM)	
2 Ethene	0.626	0.643	-0.017	12228	20.8754	20.875(M)	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.



Data File: \\nahstus005\Target\chem\FID-4.i\230608.b\007.D

Date : 08-JUN-2023 08:52

Client ID: HS23060280-03

Sample Info: HS23060280-03\HS23060280-03

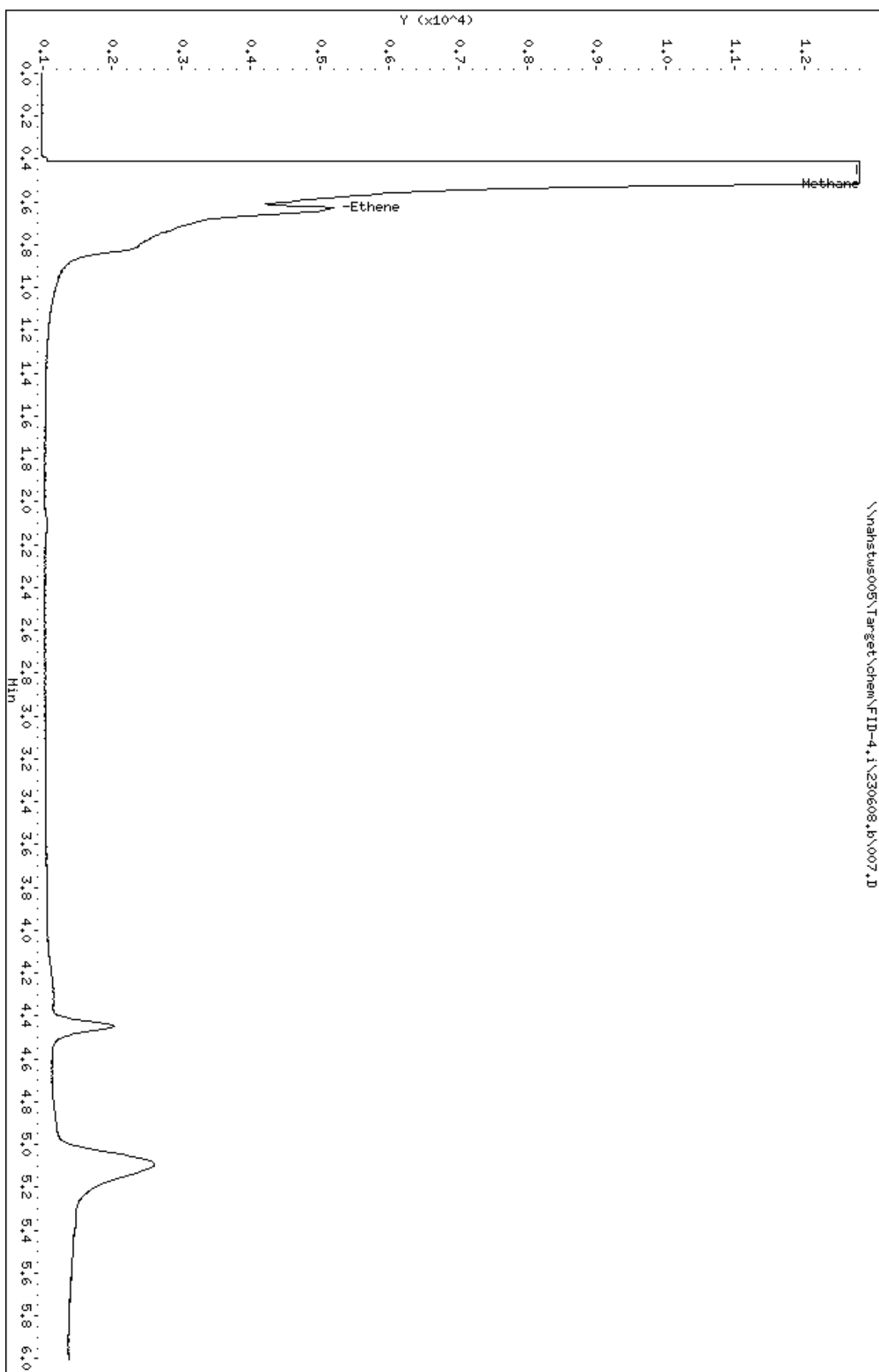
Column phase: Rtx-PL01

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

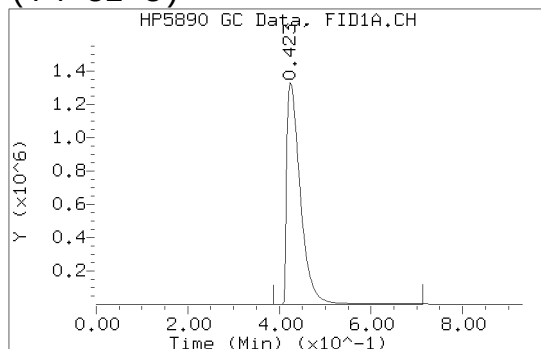
Page 1



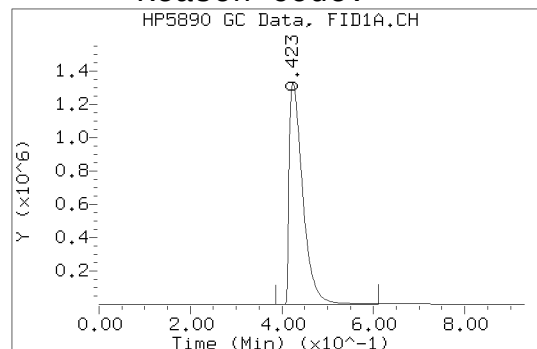
Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\007.D
Inj Date : 08-JUN-2023 08:52
InstruID : FID-4.i
LabSampID : HS23060280-03

Methane (74-82-8)**BEFORE**

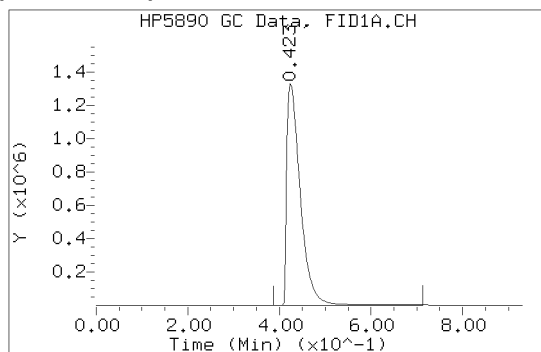
MASS
100
AREA
0
HEIGHT
0
08-Jun-2023
09:00
ALSHS
Server

**AFTER**

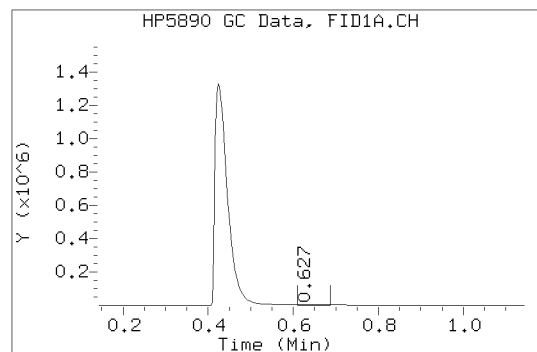
MASS
100
AREA
2712981
HEIGHT
1328977
08-Jun-2023
10:10
ALSHS
Ser

**Ethene (74-85-1)****BEFORE**

MASS
100
AREA
0
HEIGHT
0
08-Jun-2023
09:00
ALSHS
Server

**AFTER**

MASS
100
AREA
12228
HEIGHT
3469
08-Jun-2023
10:10
ALSHS
Ser



Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\008.D
 Report Date: 08-Jun-2023 10:11

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\008.D
 Lab Smp Id: HS23060280-04 Client Smp ID: HS23060280-04
 Inj Date : 08-JUN-2023 09:07
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23060280-04;HS23060280-04
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 10:10 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====
1 Methane	0.423	0.430	-0.007	4009824	4112.67	4112.672(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.



Data File: \\nahstus005\Target\chem\FID-4.i\230608.b\008.D

Date : 08-JUN-2023 09:07

Client ID: HS23060280-04

Sample Info: HS23060280-04\HS23060280-04

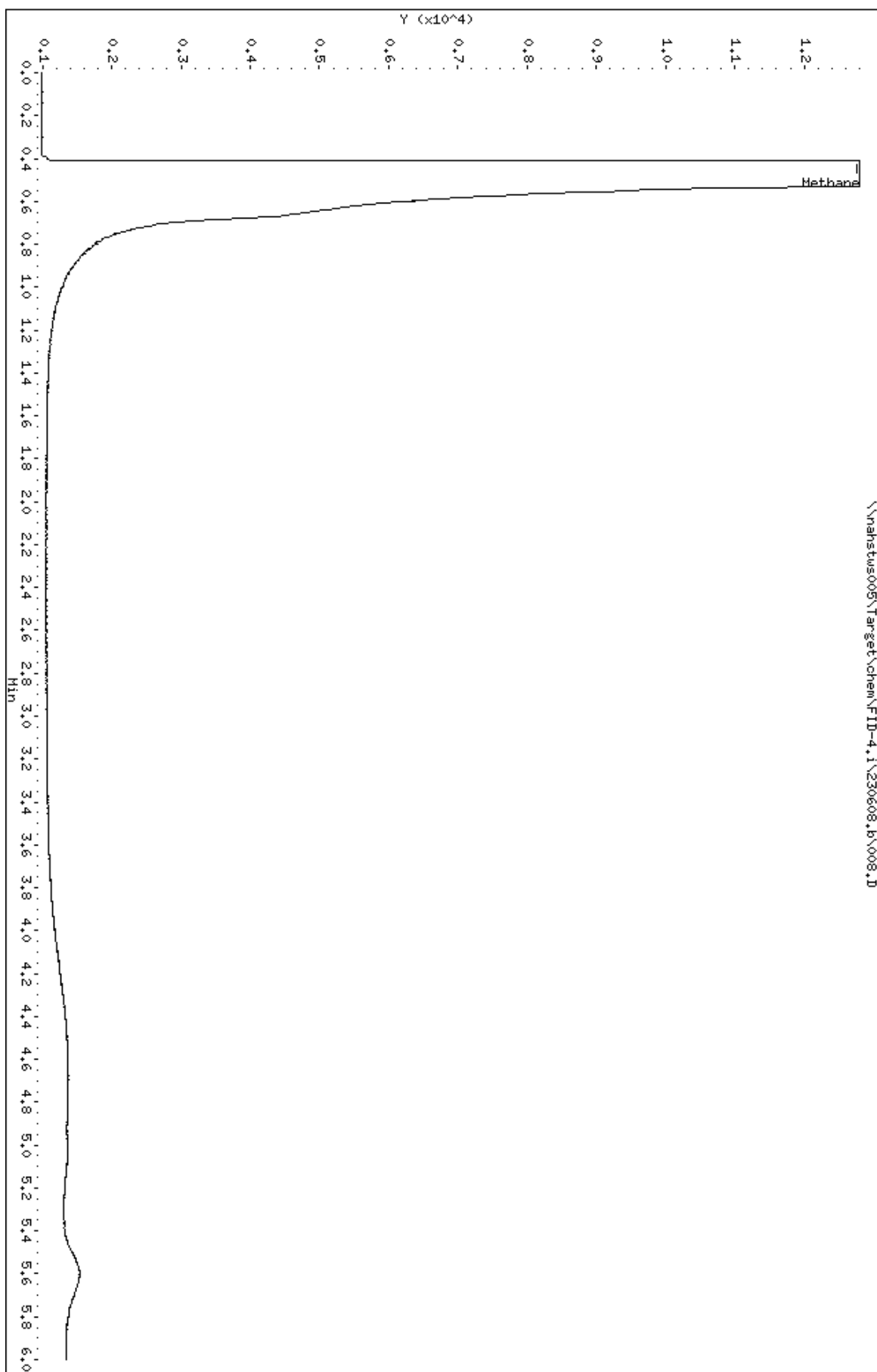
Column phase: Rtx-PL01

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

\\nahstus005\Target\chem\FID-4.i\230608.b\008.D



Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\008.D
Inj Date : 08-JUN-2023 09:07
InstruID : FID-4.i
LabSampID : HS23060280-04

NO MANUAL INTEGRATIONS



Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\009.D
 Report Date: 08-Jun-2023 10:08

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\009.D
 Lab Smp Id: HS23060280-05 Client Smp ID: HS23060280-05
 Inj Date : 08-JUN-2023 09:20
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23060280-05;HS23060280-05
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 08:03 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	0.423	0.426	-0.003	6732936		6905.63	6905.629(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.



Data File: \\nahstus005\Target\chem\FID-4.i\230608.b\009.D

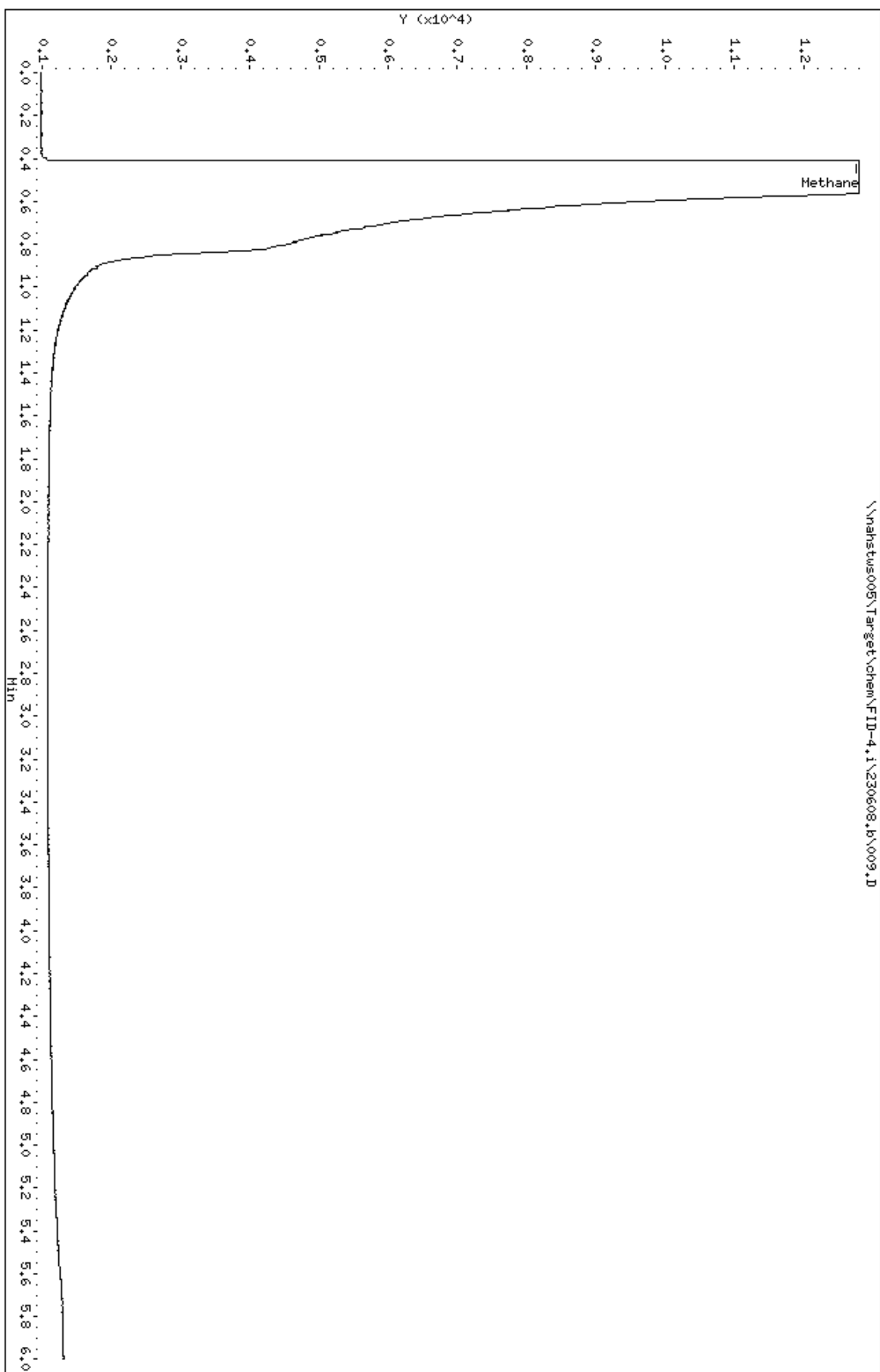
Date : 08-JUN-2023 09:20

Client ID: HS23060280-05

Sample Info: HS23060280-05;HS23060280-05

Page 1

Column phase: Rtx-PL01

Operator: PL
Column diameter: 0.53

Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\009.D
Inj Date : 08-JUN-2023 09:20
InstruID : FID-4.i
LabSampID : HS23060280-05

NO MANUAL INTEGRATIONS



Data File: \\NAHSTWS005\Target\chem\FID-4.i\230608.b\010.D
 Report Date: 09-Jun-2023 12:35

Page 1

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\230608.b\010.D
 Lab Smp Id: HS23060280-06 Client Smp ID: HS23060280-06
 Inj Date : 08-JUN-2023 09:37
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23060280-06;HS23060280-06
 Misc Info : ;1;0;1
 Comment :
 Method : \\NAHSTWS005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 16:07 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====
1 Methane	0.426	0.423	0.003	4919356	5045.53	5045.532(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.



Data File: \\NAHSTMS005\Target\chem\FID-4.i\230608.b\010.D

Date : 08-JUN-2023 09:37

Client ID: HS23060280-06

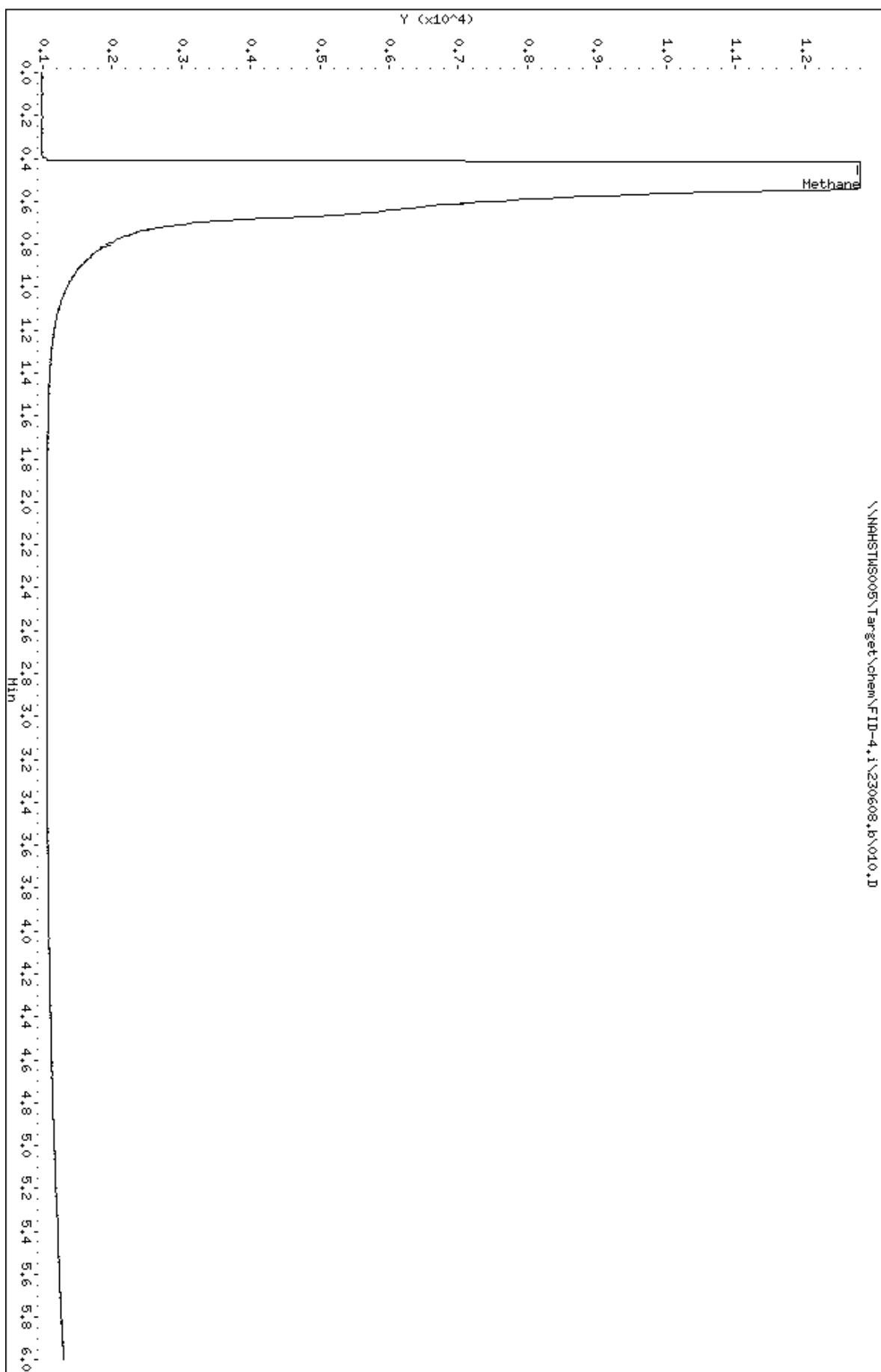
Sample Info: HS23060280-06;HS23060280-06

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Column phase: Rtx-PL01



Data File : \\NAHSTWS005\Target\chem\FID-4.i\230608.b\010.D
Inj Date : 08-JUN-2023 09:37
InstruID : FID-4.i
LabSampID : HS23060280-06

NO MANUAL INTEGRATIONS



Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\011.D

Page 1

Report Date: 08-Jun-2023 10:16

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\011.D
 Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
 Inj Date : 08-JUN-2023 10:03
 Operator : PL Inst ID: FID-4.i
 Smp Info : RSK-CCV;RSK-CCV;2;4
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 10:15 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 11 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
=====	=====	=====	=====	=====	=====	=====
1 Methane	0.430	0.430	0.000	7973	9.64700	8.177
2 Ethene	0.646	0.646	0.000	10125	16.8500	17.285(M)
3 Ethane	0.713	0.713	0.000	14815	18.0430	20.590(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\nahstus005\Target\chem\FID-4.i\230608.b\011.D

Page 1

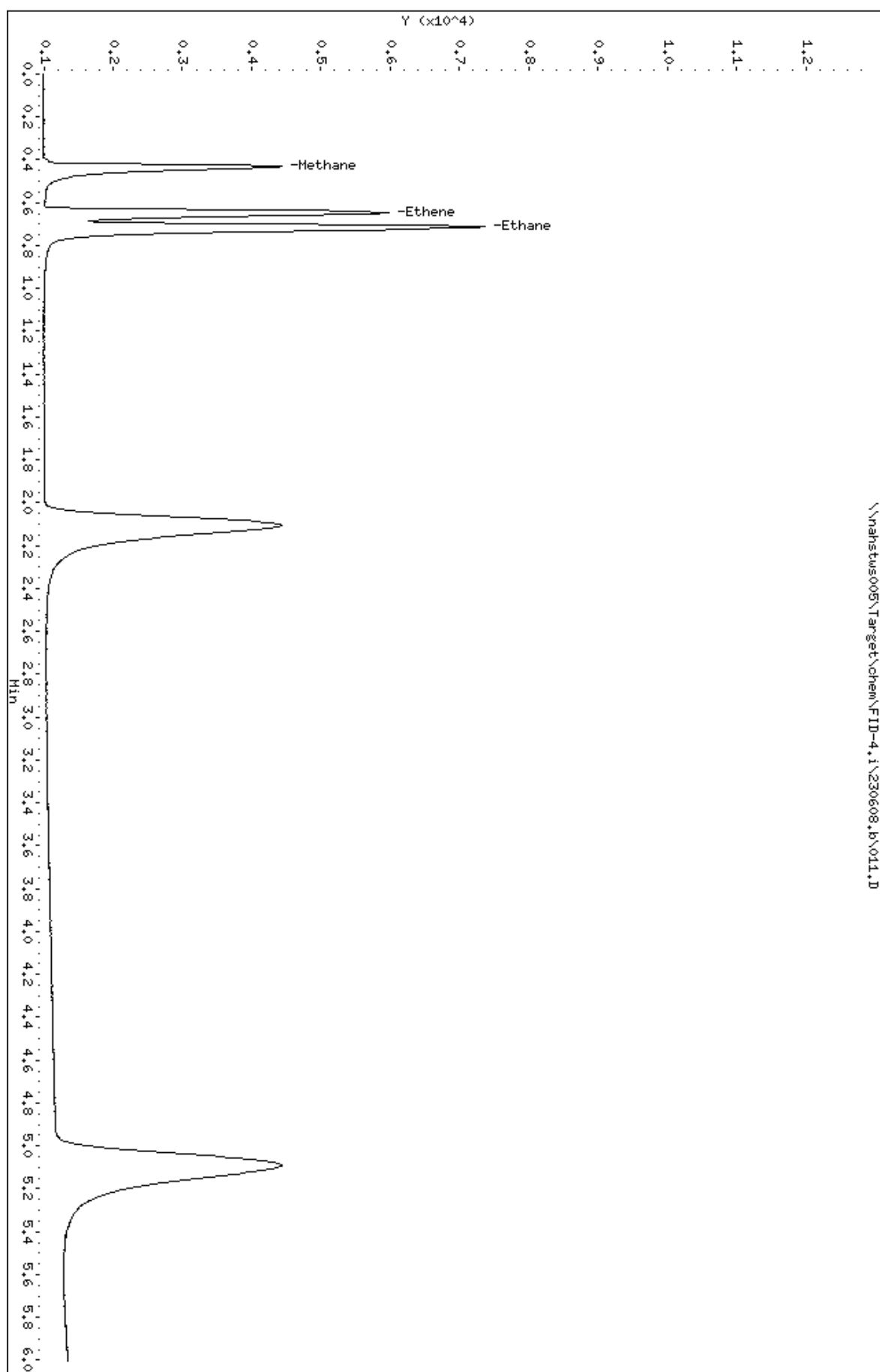
Date : 08-JUN-2023 10:03

Client ID: RSK-CCV

Instrument: FID-4.i

Sample Info: RSK-CCV\RSK-CCV\214

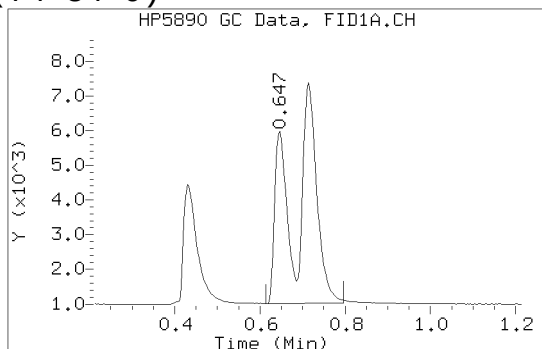
Column phase: Rtx-PL0T

Operator: PL
Column diameter: 0.53

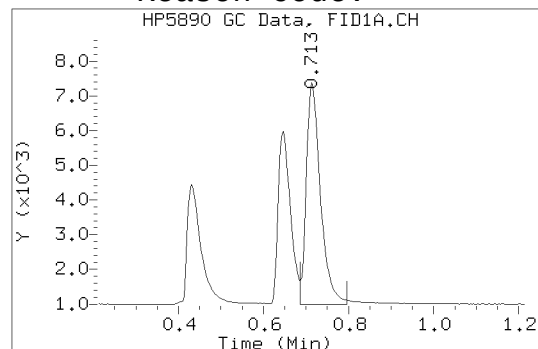
Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\011.D
Inj Date : 08-JUN-2023 10:03
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)**BEFORE**

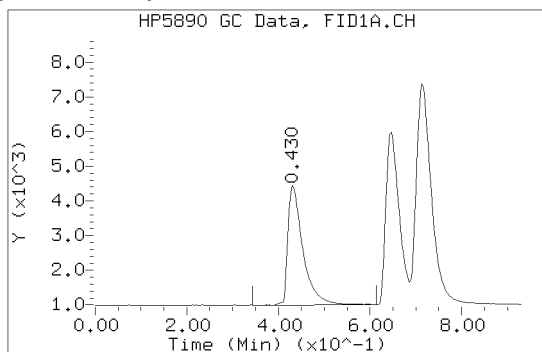
MASS
44
AREA
24497
HEIGHT
4958
08-Jun-2023
10:10
ALSHS
Server

**AFTER**

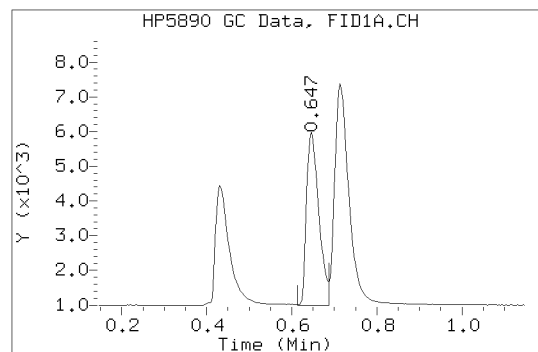
MASS
44
AREA
14815
HEIGHT
6383
08-Jun-2023
10:16
ALSHS
Ser

Reason Code:**Ethene (74-85-1)****BEFORE**

MASS
100
AREA
0
HEIGHT
0
08-Jun-2023
10:10
ALSHS
Server

**AFTER**

MASS
100
AREA
10125
HEIGHT
4979
08-Jun-2023
10:16
ALSHS
Ser

Reason Code:

Data File: \\nahstws005\Target\chem\FID-4.i\230608.b\012.D

Page 1

Report Date: 08-Jun-2023 10:47

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\230608.b\012.D
 Lab Smp Id: HS23060280-01DUP Client Smp ID: HS23060280-01DUP
 Inj Date : 08-JUN-2023 10:26
 Operator : PL Inst ID: FID-4.i
 Smp Info : HS23060280-01DUP;HS23060280-01DUP
 Misc Info : ;1;0;1
 Comment :
 Method : \\nahstws005\Target\chem\FID-4.i\230608.b\RSKNI3.m
 Meth Date : 08-Jun-2023 10:15 samy.mata Quant Type: ESTD
 Cal Date : 24-JAN-2017 10:15 Cal File: 004.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: RSK175.sub
 Target Version: 4.14
 Processing Host: NAHSTW7022

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====		=====	=====
1 Methane	0.426	0.430	-0.004	1401		1.43693	1.436(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: \\nahstus005\Target\chem\FID-4.i\230608.b\012.D

Date : 08-JUN-2023 10:26

Client ID: HS23060280-01DUP

Sample Info: HS23060280-01DUP;HS23060280-01DUP

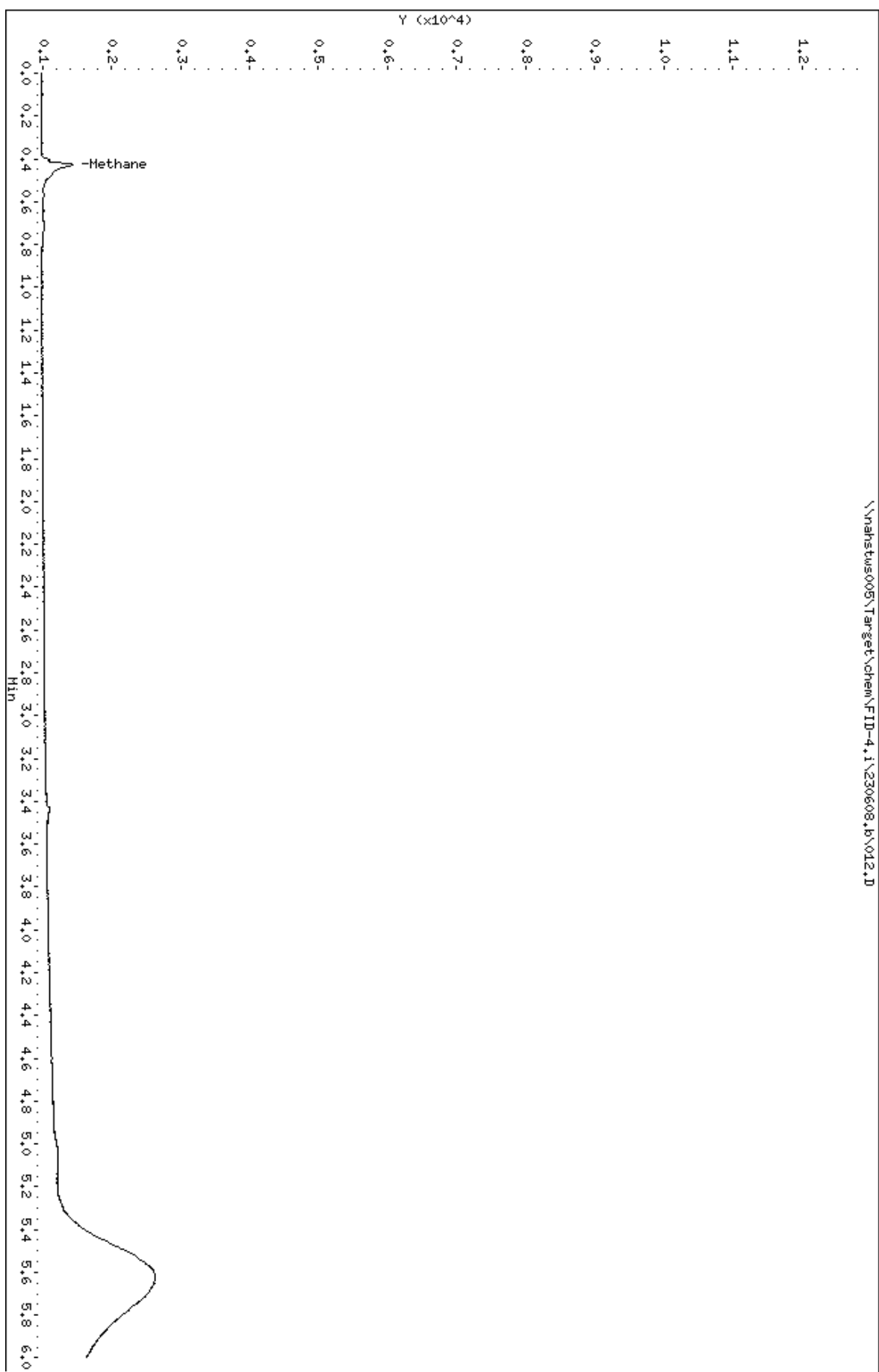
Page 1

Instrument: FID-4.i

Operator: PL

Column diameter: 0.53

Column phase: Rtx-PL01

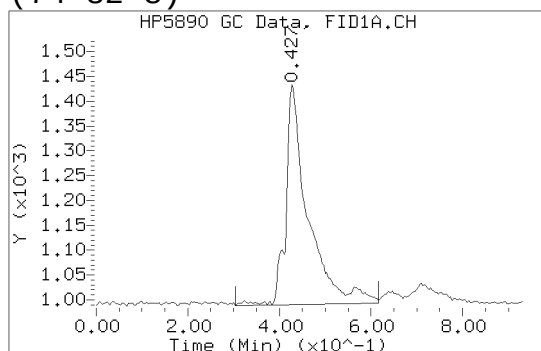


Data File : \\nahstws005\Target\chem\FID-4.i\230608.b\012.D
Inj Date : 08-JUN-2023 10:26
InstruID : FID-4.i
LabSampID : HS23060280-01DUP

Methane (74-82-8)

BEFORE

MASS
100
AREA
0
HEIGHT
0
08-Jun-2023
10:33
ALSHS
Server



AFTER

MASS
100
AREA
1401
HEIGHT
445
08-Jun-2023
10:47
ALSHS
Ser

Reason Code:

