

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041723\
 Data File : VN077357.D
 Acq On : 17 Apr 2023 15:07
 Operator : JC\MD
 Sample : 02355-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-TT-RW5B-20230413

Quant Time: Apr 18 04:41:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

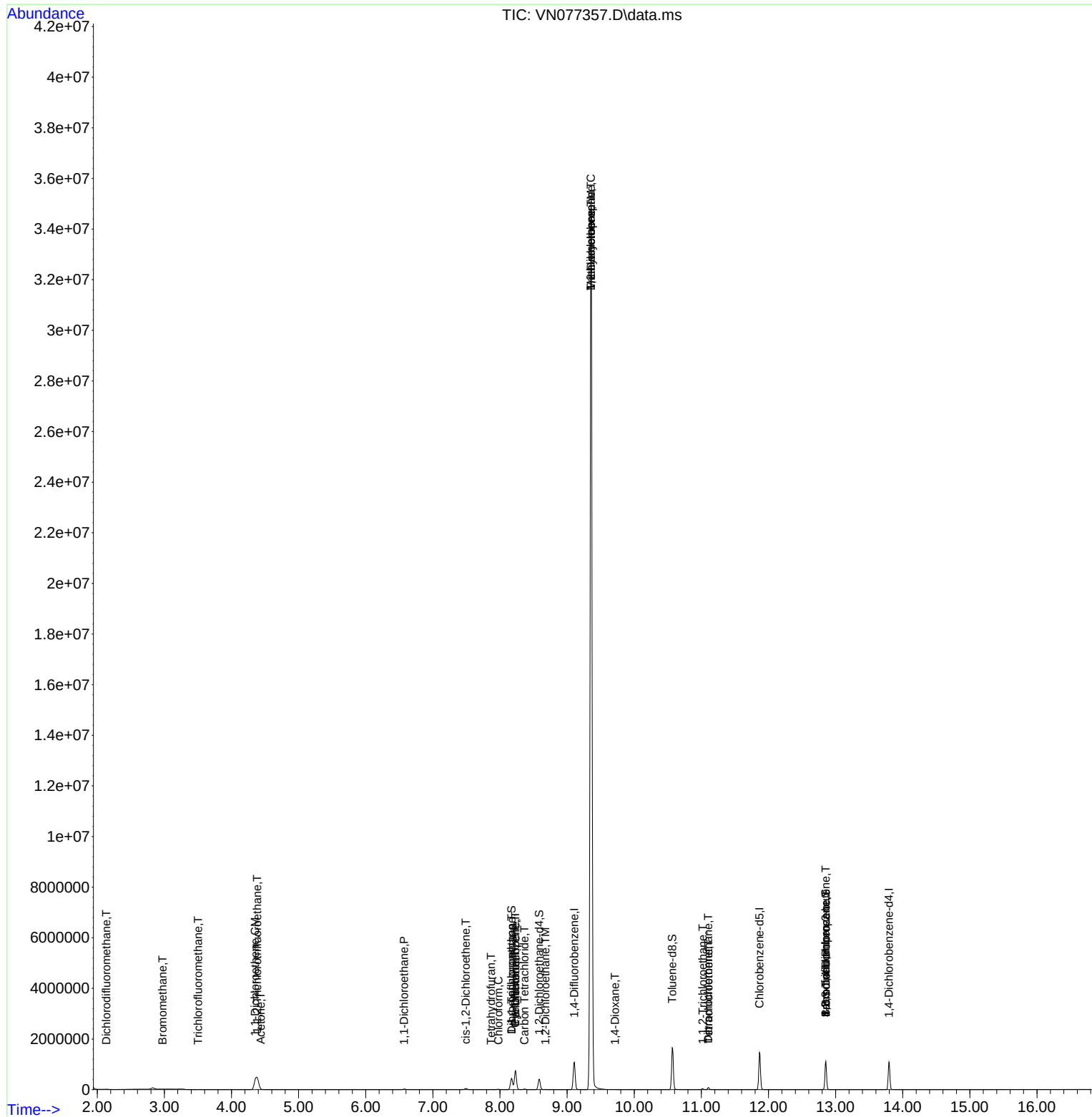
Internal Standards						
1) Pentafluorobenzene	8.231	168	530228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1010857	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	881337	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	288881	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	323278	44.610	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.220%		
35) Dibromofluoromethane	8.172	113	305938	47.277	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.560%		
50) Toluene-d8	10.566	98	1221215	46.878	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.760%		
62) 4-Bromofluorobenzene	12.854	95	388101	44.794	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.580%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.137	85	3409	0.504	ug/l	91
5) Bromomethane	2.972	94	2476	0.300	ug/l #	39
7) Trichlorofluoromethane	3.502	101	2545	0.258	ug/l #	57
9) 1,1,2-Trichlorotrifluo...	4.384	101	292482	48.472	ug/l	98
12) 1,1-Dichloroethene	4.348	96	165598	26.661	ug/l	87
16) Acetone	4.437	43	688	0.257	ug/l #	65
24) 1,1-Dichloroethane	6.572	63	34096	2.807	ug/l	97
27) cis-1,2-Dichloroethene	7.489	96	29666	3.572	ug/l	85
29) Tetrahydrofuran	7.866	42	2399	0.861	ug/l	95
30) Chloroform	7.978	83	15809	1.221	ug/l #	82
31) Cyclohexane	8.225	56	13593	1.207	ug/l #	33
32) 1,1,1-Trichloroethane	8.172	97	14620	1.241	ug/l #	47
36) 1,1-Dichloropropene	8.231	75	44139	4.612	ug/l #	51
38) Carbon Tetrachloride	8.366	117	16282	1.660	ug/l	93
39) Methylcyclohexane	9.354	83	157908	12.236	ug/l #	1
42) 1,2-Dichloroethane	8.678	62	5261	0.573	ug/l	98
44) Trichloroethene	9.354	130	12101443	1694.170	ug/l	97
45) 1,2-Dichloropropane	9.354	63	36652	5.170	ug/l #	1
49) 1,4-Dioxane	9.713	88	4297	26.294	ug/l #	82
55) 1,1,2-Trichloroethane	11.019	97	12000	1.564	ug/l #	88
60) Dibromochloromethane	11.101	129	16776	2.124	ug/l #	11
64) Tetrachloroethene	11.107	164	17160	3.152	ug/l	91
71) Bromoform	12.854	173	1847	0.357	ug/l #	1
76) 1,2,3-Trichloropropane	12.854	75	207745	30.200	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	207745	67.959	ug/l #	13

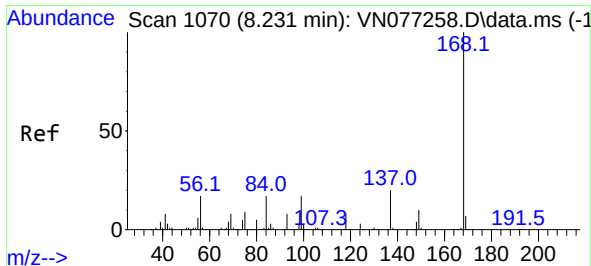
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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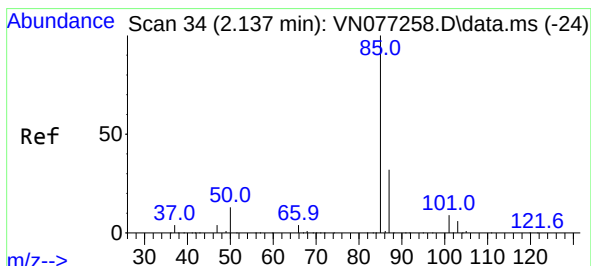
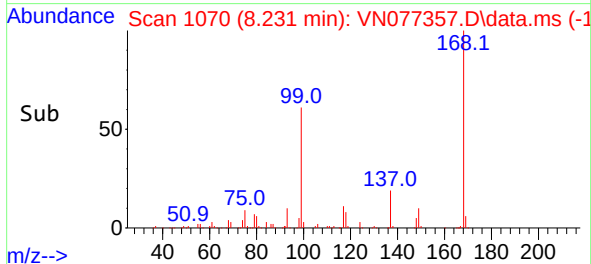
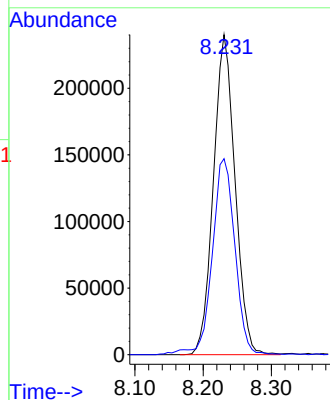
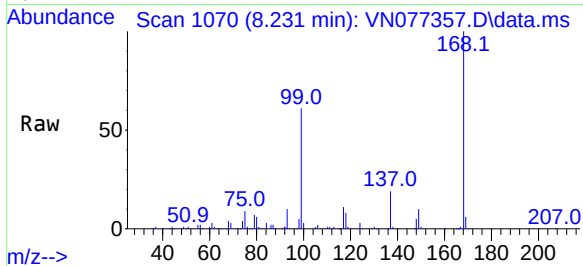




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

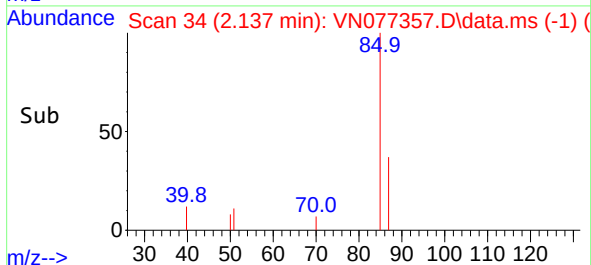
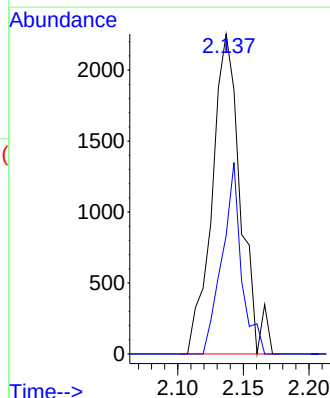
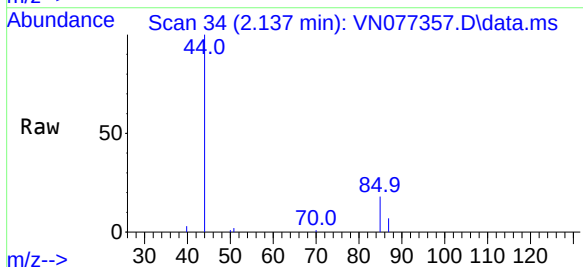
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

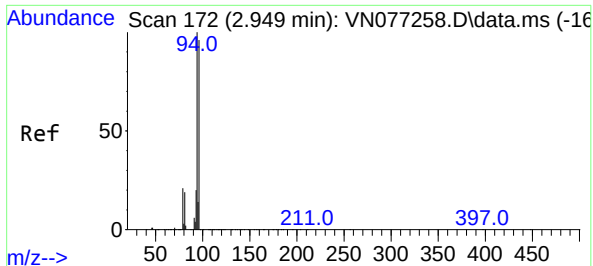
Tgt Ion:168 Resp: 530228
Ion Ratio Lower Upper
168 100
99 61.0 50.6 75.8



#2
Dichlorodifluoromethane
Concen: 0.504 ug/l
RT: 2.137 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion: 85 Resp: 3409
Ion Ratio Lower Upper
85 100
87 36.9 16.1 48.2

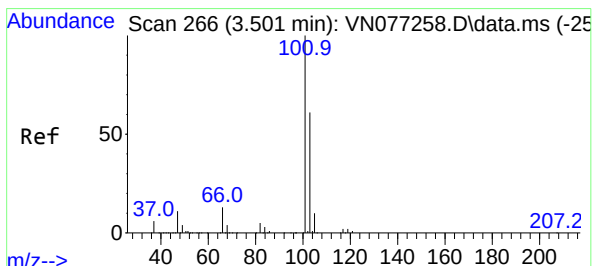
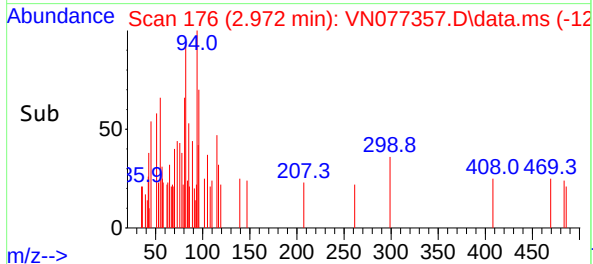
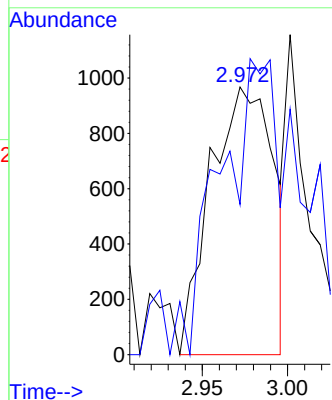
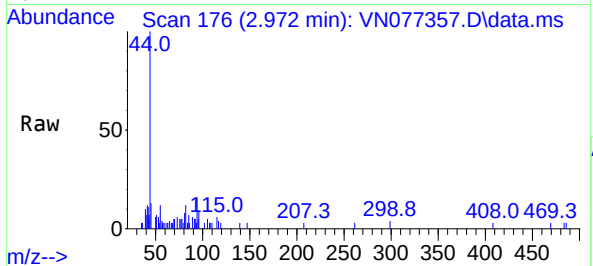




#5
Bromomethane
Concen: 0.300 ug/l
RT: 2.972 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

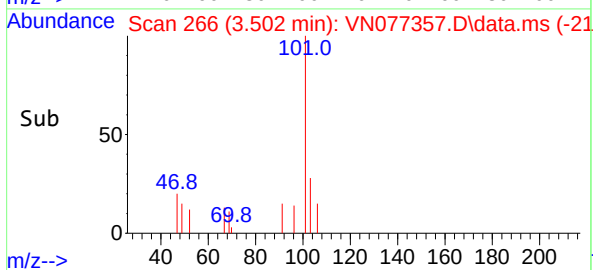
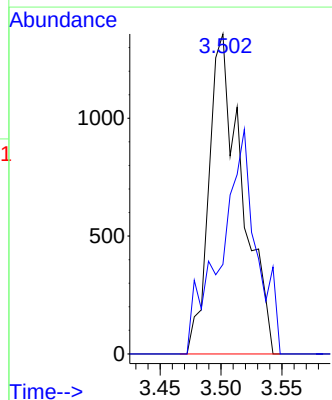
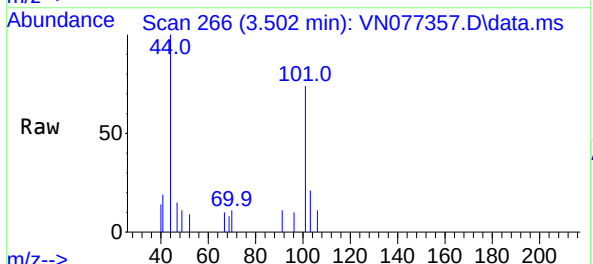
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

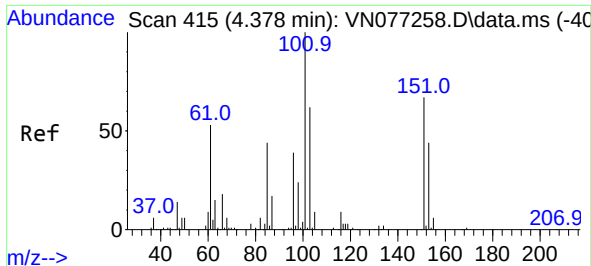
Tgt Ion: 94 Resp: 2476
Ion Ratio Lower Upper
94 100
96 36.3 77.0 115.4#



#7
Trichlorofluoromethane
Concen: 0.258 ug/l
RT: 3.502 min Scan# 266
Delta R.T. 0.001 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion: 101 Resp: 2545
Ion Ratio Lower Upper
101 100
103 28.0 49.0 73.4#

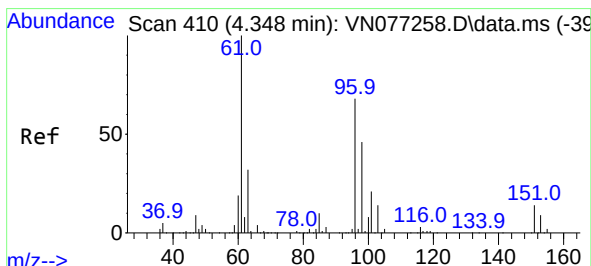
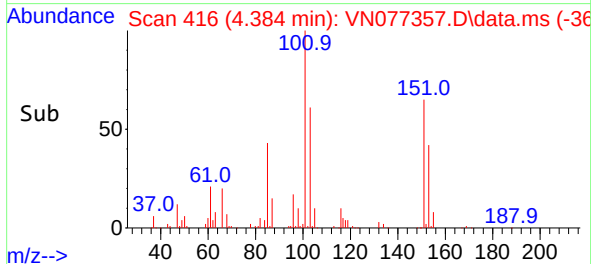
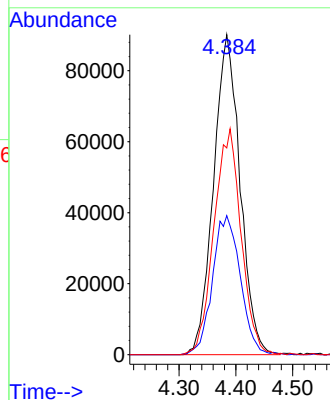
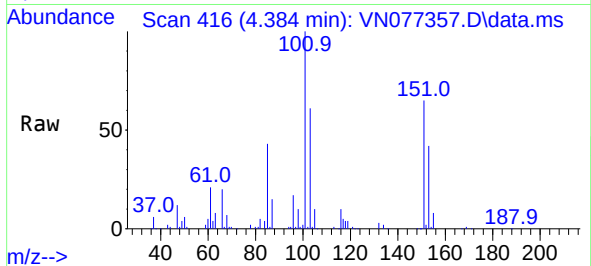




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.472 ug/l
RT: 4.384 min Scan# 415
Delta R.T. 0.006 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

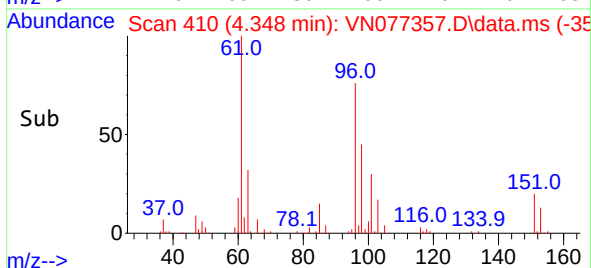
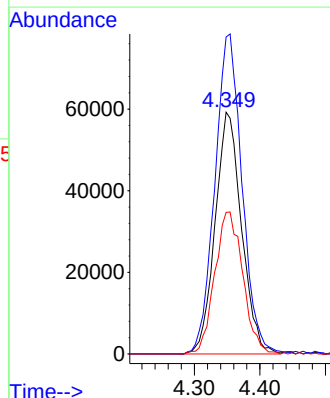
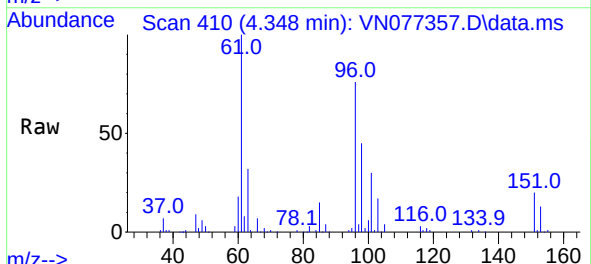
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

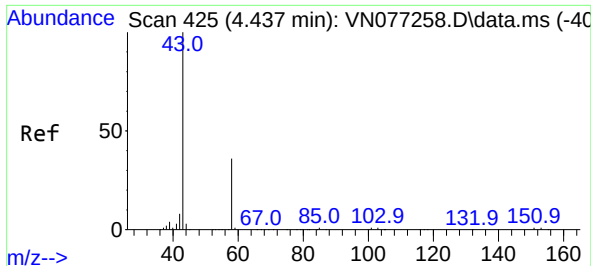
Tgt Ion:101 Resp: 292482
Ion Ratio Lower Upper
101 100
85 45.6 37.3 55.9
151 72.2 56.3 84.5



#12
1,1-Dichloroethene
Concen: 26.661 ug/l
RT: 4.348 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion: 96 Resp: 165598
Ion Ratio Lower Upper
96 100
61 131.1 118.3 177.5
98 58.6 54.5 81.7

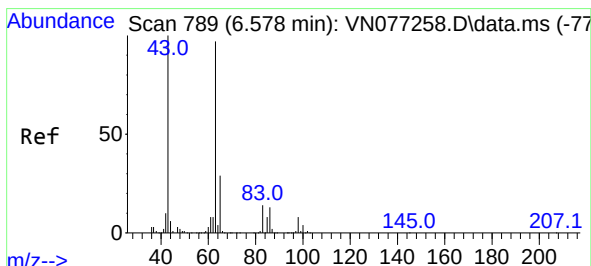
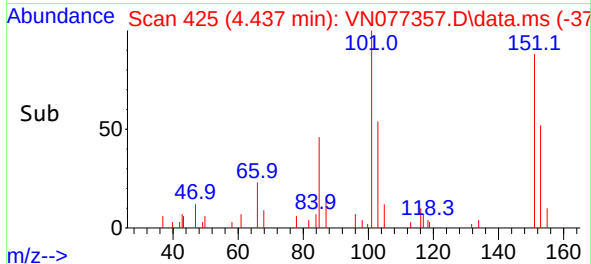
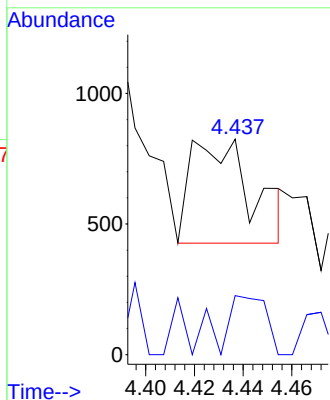
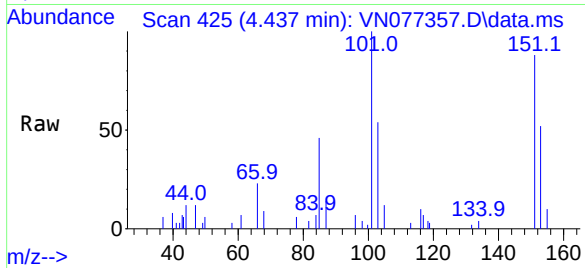




#16
Acetone
Concen: 0.257 ug/l
RT: 4.437 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

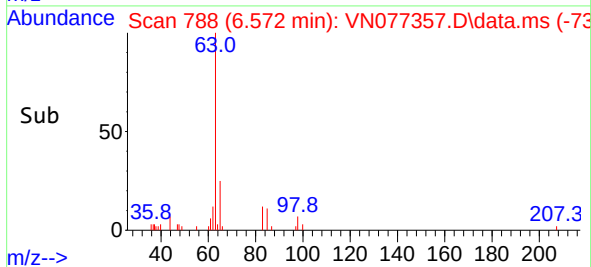
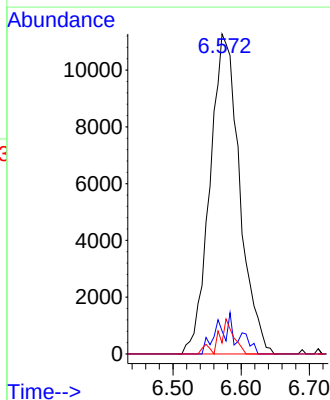
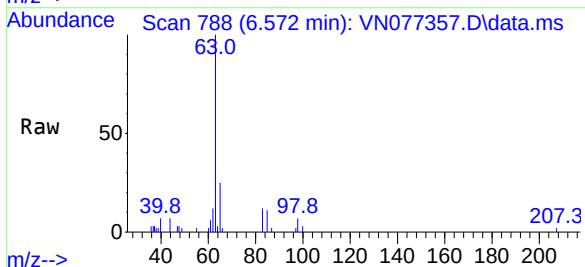
Instrument :
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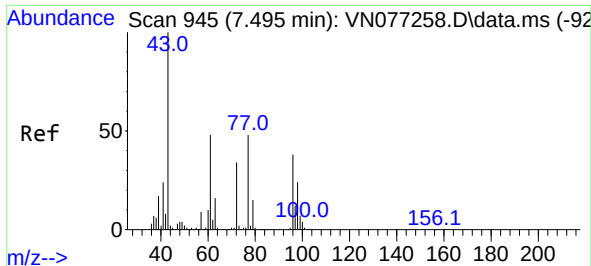
Tgt Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
58 56.8 29.0 43.6#



#24
1,1-Dichloroethane
Concen: 2.807 ug/l
RT: 6.572 min Scan# 788
Delta R.T. -0.006 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

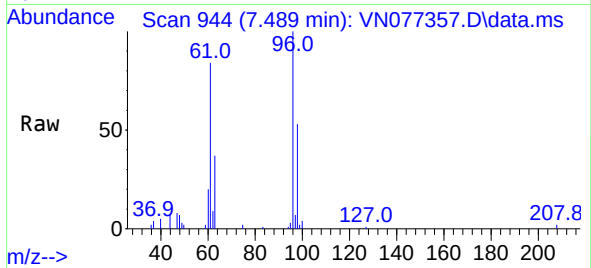
Tgt Ion: 63 Resp: 34096
Ion Ratio Lower Upper
63 100
98 7.2 4.0 12.0
100 3.5 2.3 6.9



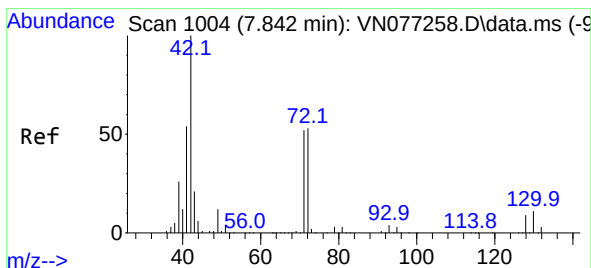
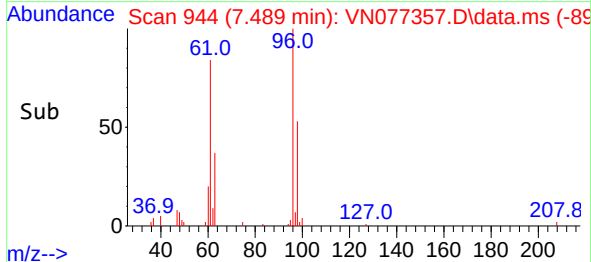
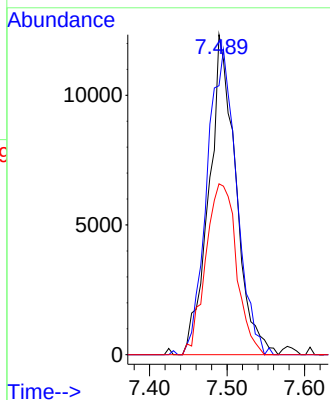


#27
cis-1,2-Dichloroethene
Concen: 3.572 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Instrument :
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ClientSampleId :
BP-TT-RW5B-20230413

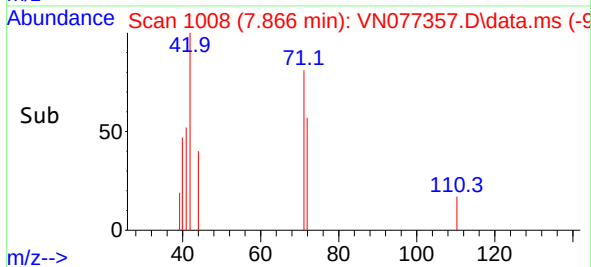
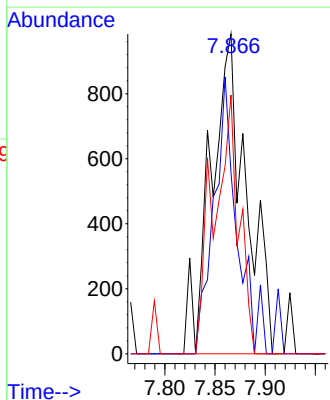
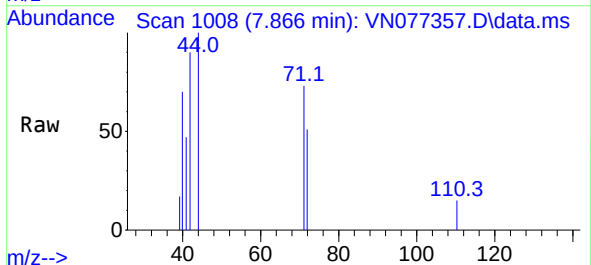


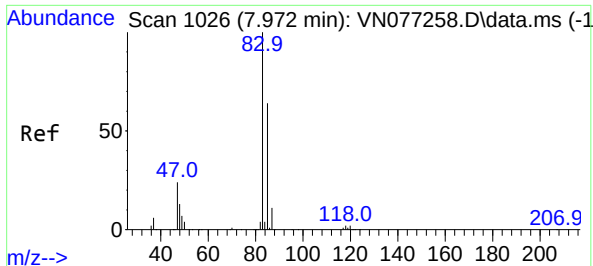
Tgt Ion: 96 Resp: 29666
Ion Ratio Lower Upper
96 100
61 105.8 0.0 261.0
98 61.2 0.0 128.0



#29
Tetrahydrofuran
Concen: 0.861 ug/l
RT: 7.866 min Scan# 1008
Delta R.T. 0.024 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion: 42 Resp: 2399
Ion Ratio Lower Upper
42 100
72 57.4 44.6 66.8
71 57.7 41.3 61.9





#30

Chloroform

Concen: 1.221 ug/l

RT: 7.978 min Scan# 1069

Delta R.T. 0.006 min

Lab File: VN077357.D

Acq: 17 Apr 2023 15:07

Instrument :

MSVOA_N

ClientSampleId :

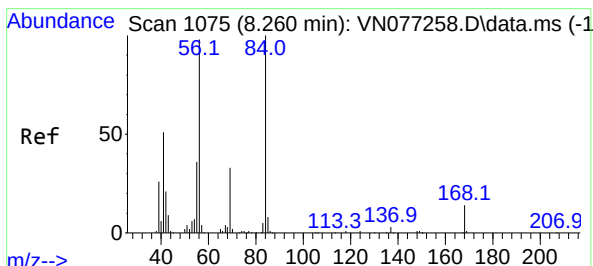
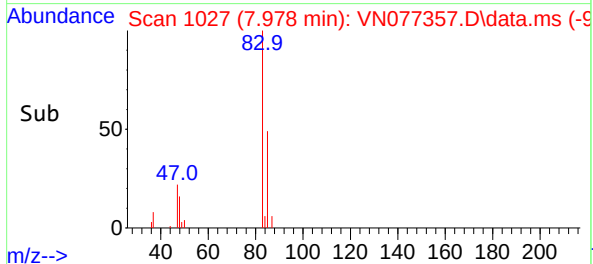
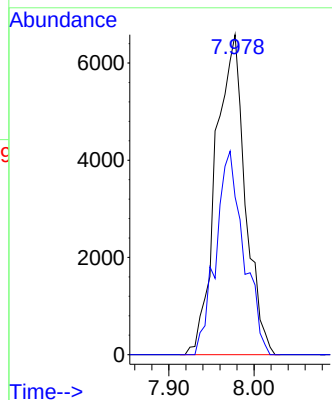
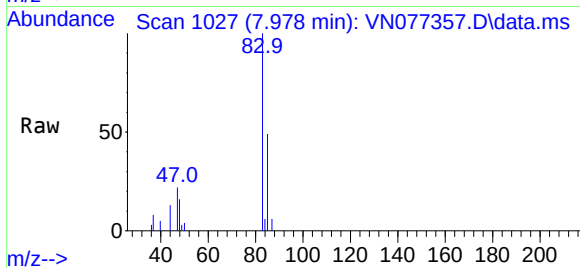
BP-TT-RW5B-20230413

Tgt Ion: 83 Resp: 15809

Ion Ratio Lower Upper

83 100

85 49.3 50.9 76.3#



#31

Cyclohexane

Concen: 1.207 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.035 min

Lab File: VN077357.D

Acq: 17 Apr 2023 15:07

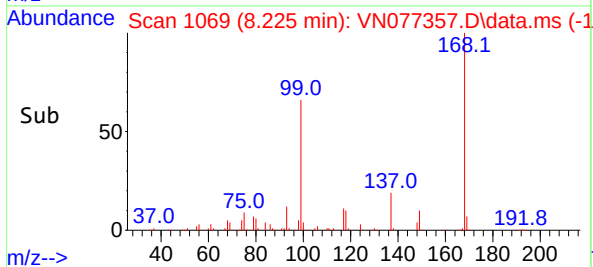
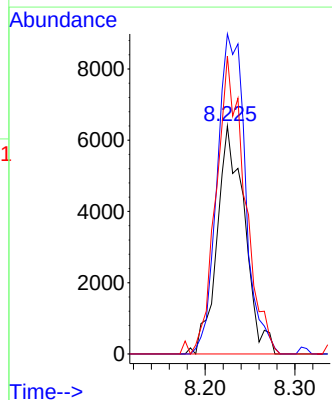
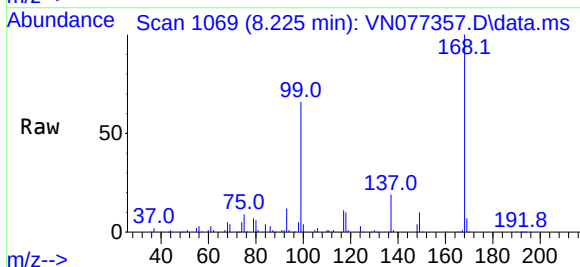
Tgt Ion: 56 Resp: 13593

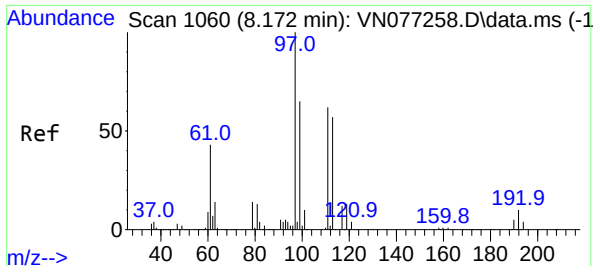
Ion Ratio Lower Upper

56 100

69 140.4 26.6 40.0#

84 130.7 81.8 122.8#





#32

1,1,1-Trichloroethane

Concen: 1.241 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077357.D

Acq: 17 Apr 2023 15:07

Instrument :

MSVOA_N

ClientSampleId :

BP-TT-RW5B-20230413

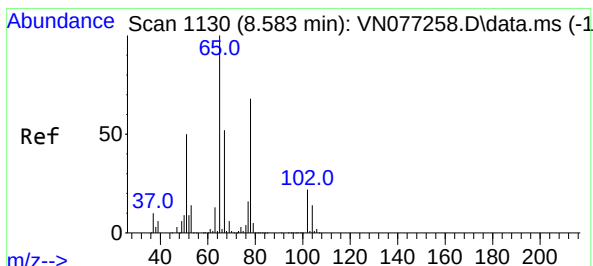
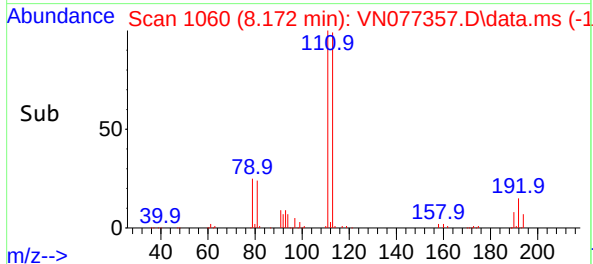
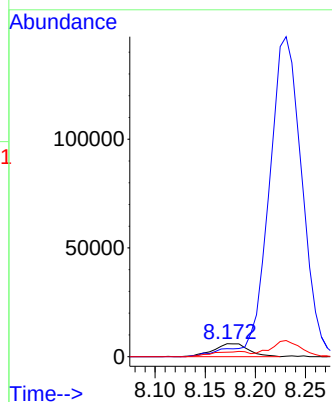
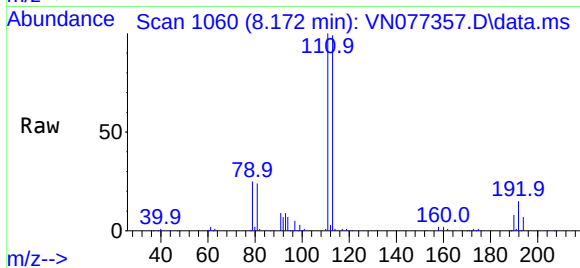
Tgt Ion: 97 Resp: 14620

Ion Ratio Lower Upper

97 100

99 0.0 54.2 81.4#

61 41.4 35.8 53.6



#33

1,2-Dichloroethane-d4

Concen: 44.610 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN077357.D

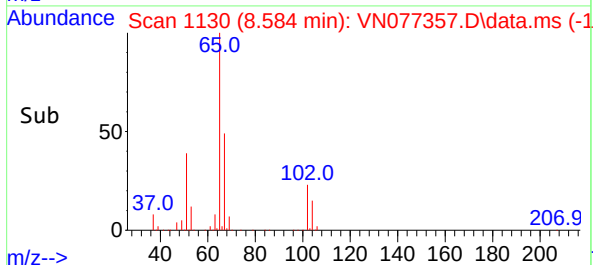
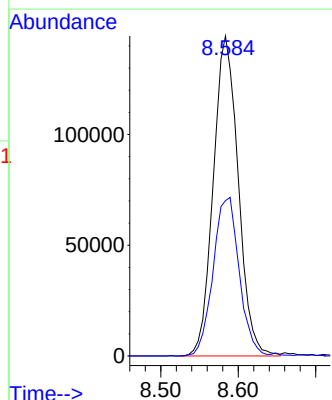
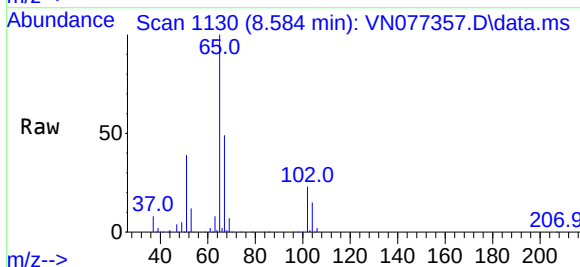
Acq: 17 Apr 2023 15:07

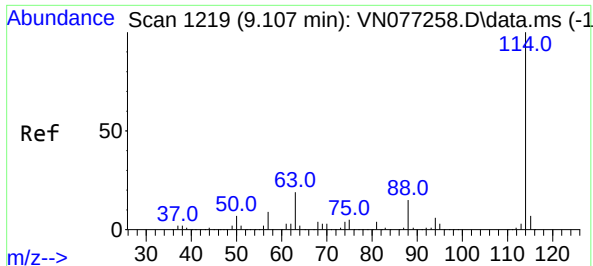
Tgt Ion: 65 Resp: 323278

Ion Ratio Lower Upper

65 100

67 51.8 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077357.D

Acq: 17 Apr 2023 15:07

Instrument :

MSVOA_N

ClientSampleId :

BP-TT-RW5B-20230413

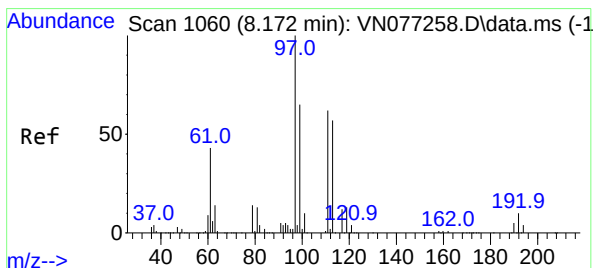
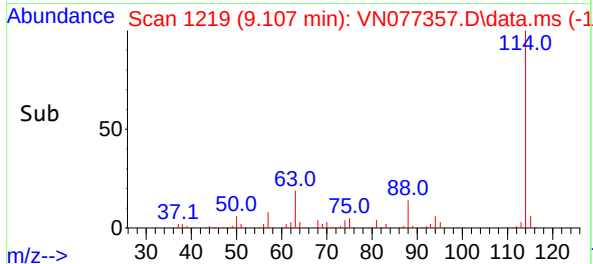
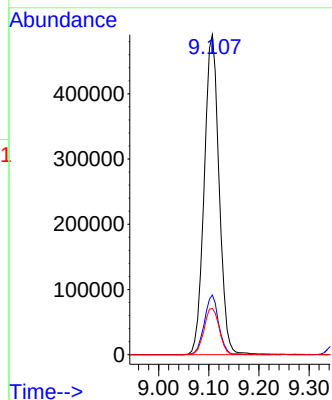
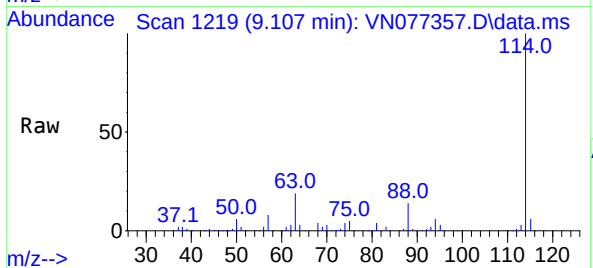
Tgt Ion:114 Resp: 1010857

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.8

88 14.5 0.0 29.4



#35

Dibromofluoromethane

Concen: 47.277 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077357.D

Acq: 17 Apr 2023 15:07

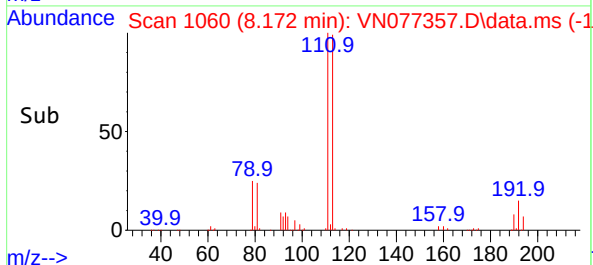
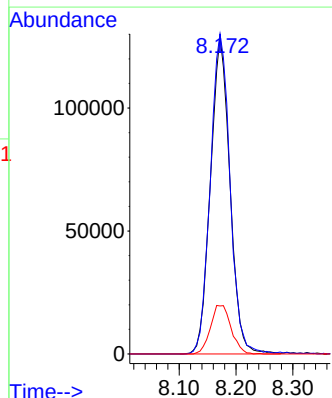
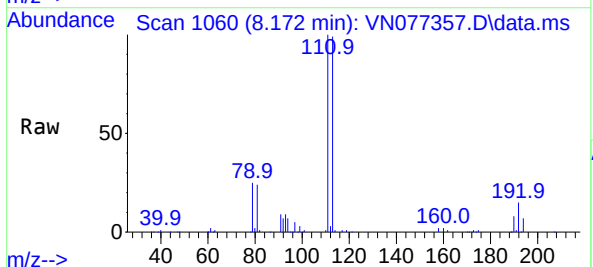
Tgt Ion:113 Resp: 305938

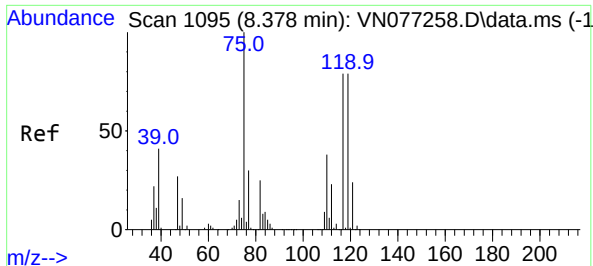
Ion Ratio Lower Upper

113 100

111 102.3 83.4 125.0

192 16.2 13.5 20.3





#36

1,1-Dichloropropene

Concen: 4.612 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN077357.D

Acq: 17 Apr 2023 15:07

Instrument :

MSVOA_N

ClientSampleId :

BP-TT-RW5B-20230413

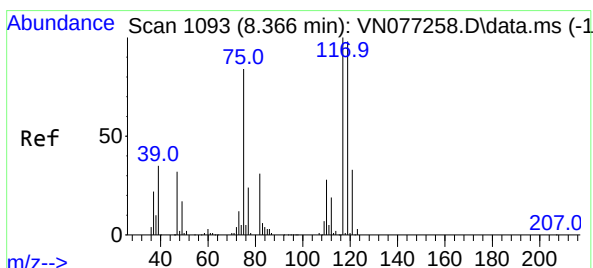
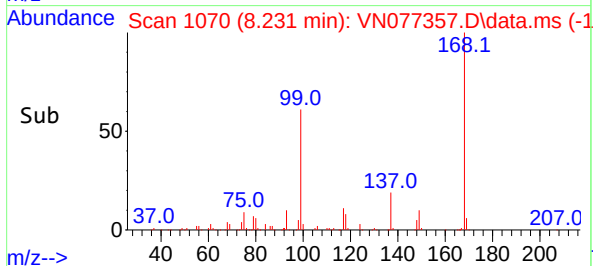
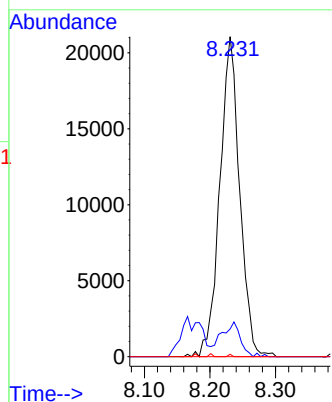
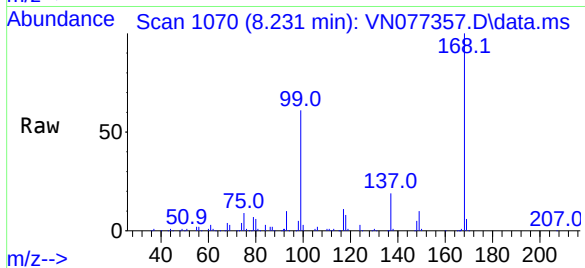
Tgt Ion: 75 Resp: 44139

Ion Ratio Lower Upper

75 100

110 10.3 17.8 53.5#

77 0.1 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 1.660 ug/l

RT: 8.366 min Scan# 1093

Delta R.T. -0.000 min

Lab File: VN077357.D

Acq: 17 Apr 2023 15:07

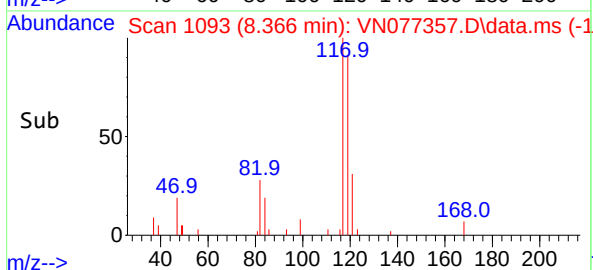
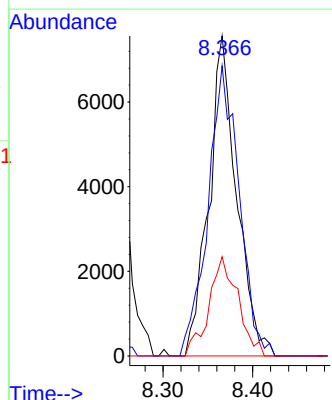
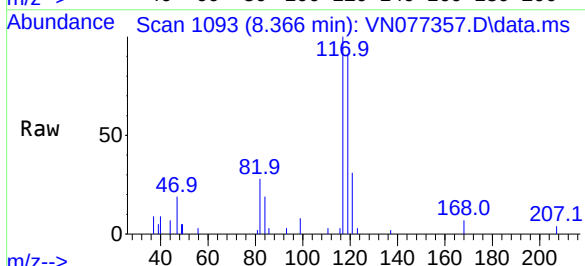
Tgt Ion: 117 Resp: 16282

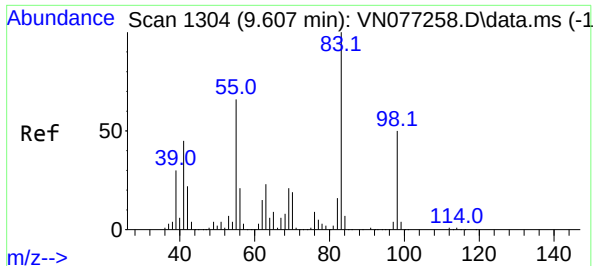
Ion Ratio Lower Upper

117 100

119 90.7 78.5 117.7

121 31.0 26.6 40.0

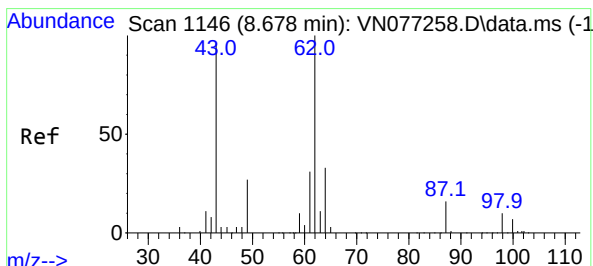
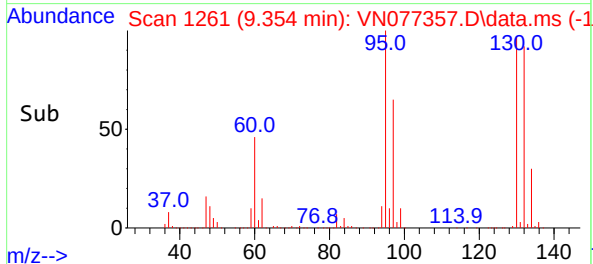
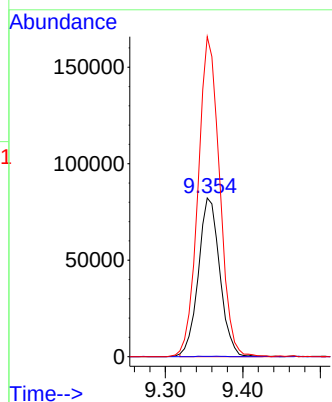
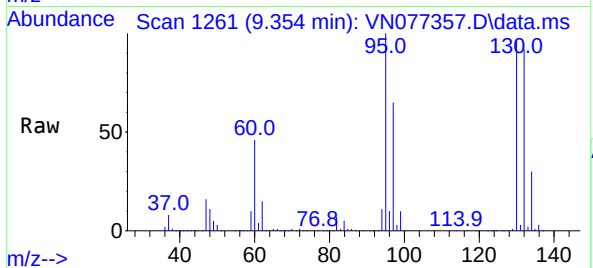




#39
Methylcyclohexane
Concen: 12.236 ug/l
RT: 9.354 min Scan# 1126
Delta R.T. -0.253 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

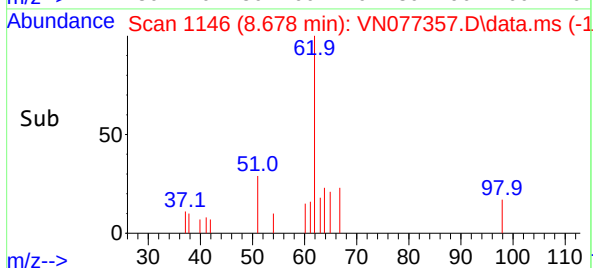
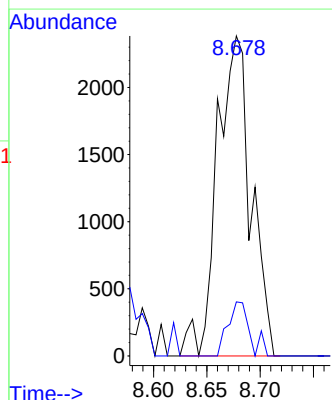
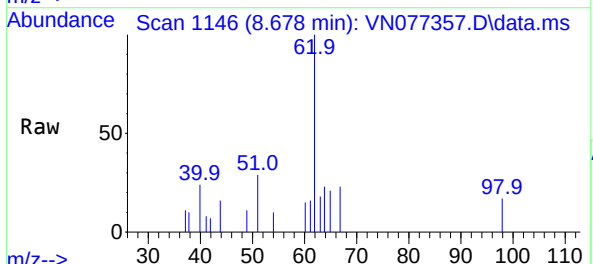
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

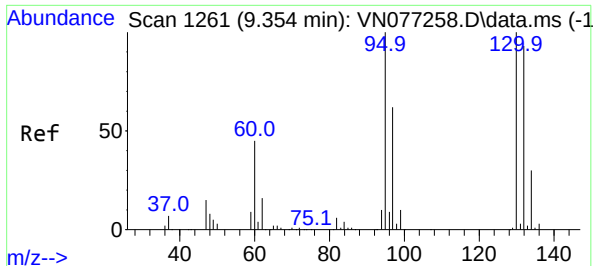
Tgt Ion: 83 Resp: 157908
Ion Ratio Lower Upper
83 100
55 0.2 52.4 78.6#
98 201.1 39.8 59.6#



#42
1,2-Dichloroethane
Concen: 0.573 ug/l
RT: 8.678 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion: 62 Resp: 5261
Ion Ratio Lower Upper
62 100
98 10.9 0.0 20.2

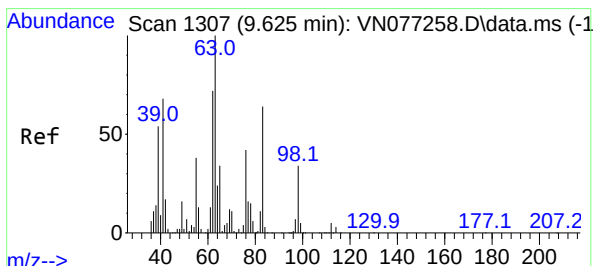
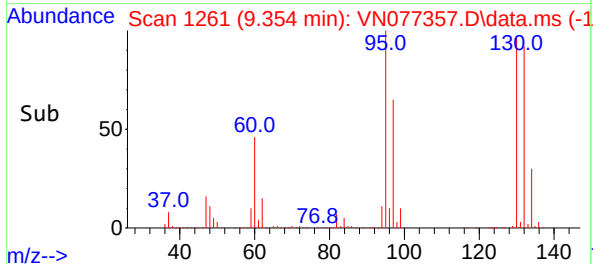
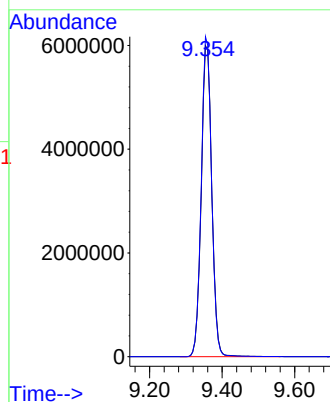
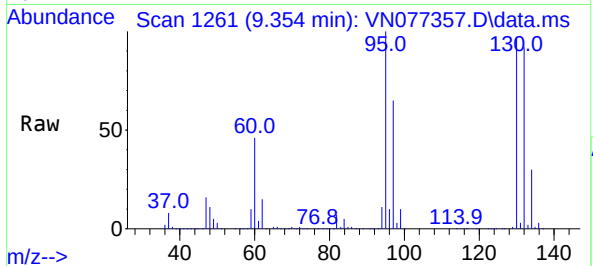




#44
Trichloroethene
Concen: 1694.170 ug/l
RT: 9.354 min Scan# 1261
Delta R.T. 0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

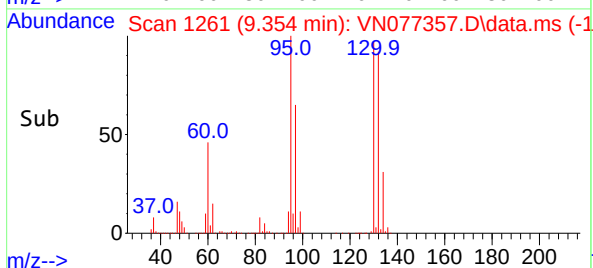
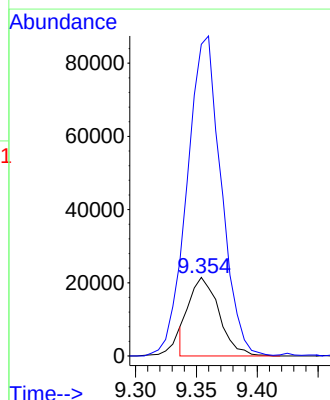
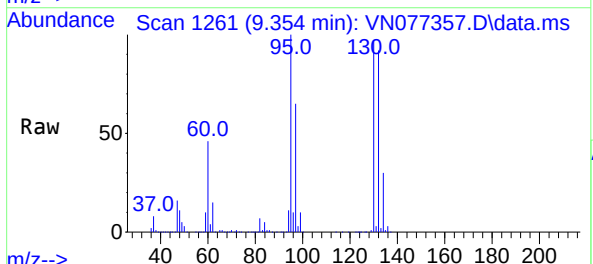
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

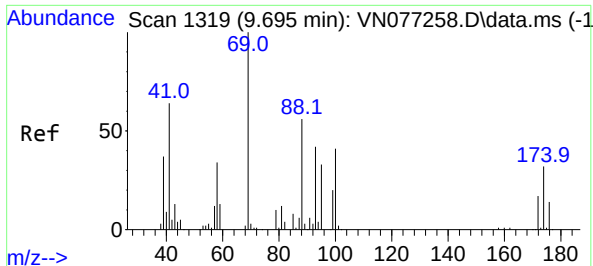
Tgt Ion:130 Resp:12101443
Ion Ratio Lower Upper
130 100
95 102.9 0.0 200.2



#45
1,2-Dichloropropane
Concen: 5.170 ug/l
RT: 9.354 min Scan# 1261
Delta R.T. -0.271 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion: 63 Resp: 36652
Ion Ratio Lower Upper
63 100
65 395.7 27.1 40.7#

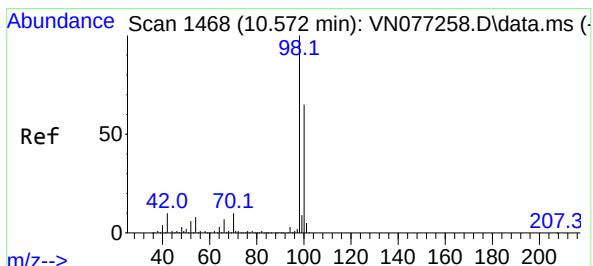
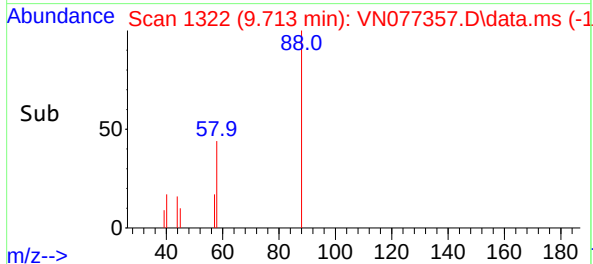
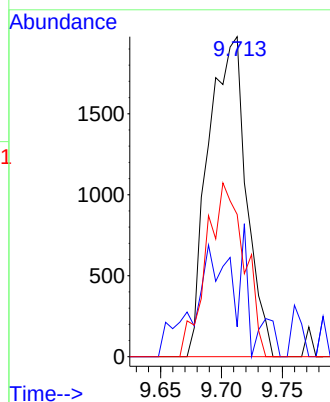
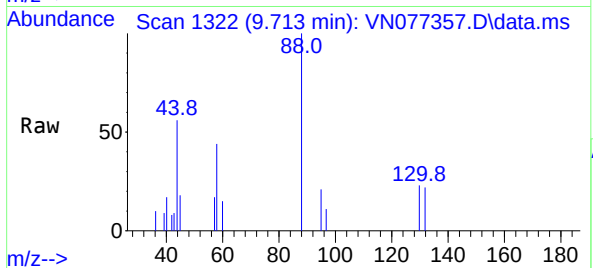




#49
1,4-Dioxane
Concen: 26.294 ug/l
RT: 9.713 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

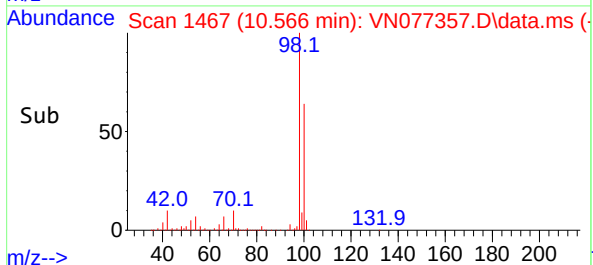
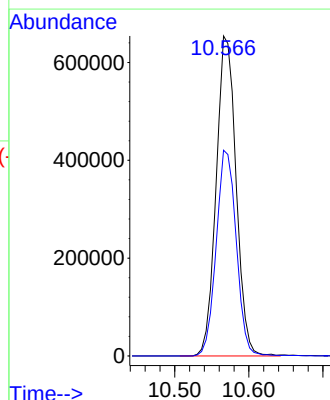
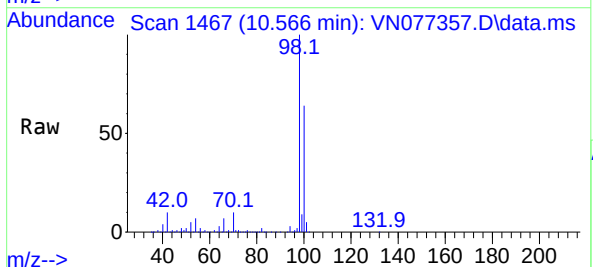
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

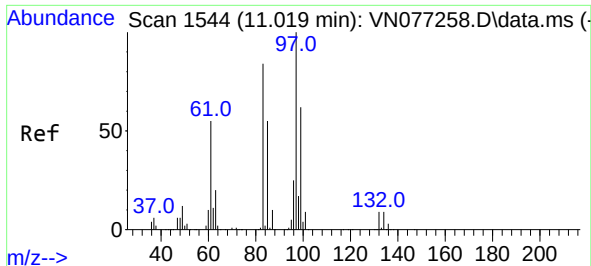
Tgt Ion: 88 Resp: 4297
Ion Ratio Lower Upper
88 100
43 40.8 17.0 25.6#
58 54.2 49.8 74.6



#50
Toluene-d8
Concen: 46.878 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.006 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion: 98 Resp: 1221215
Ion Ratio Lower Upper
98 100
100 64.6 51.3 76.9

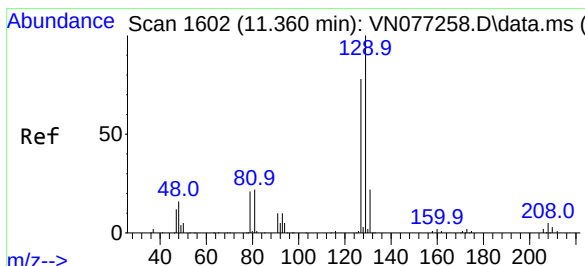
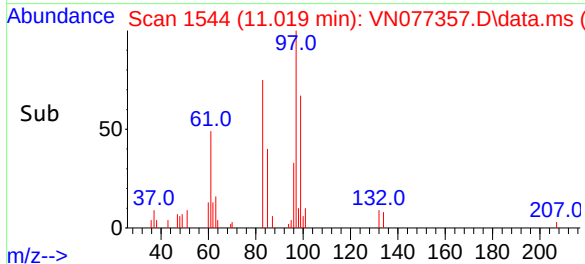
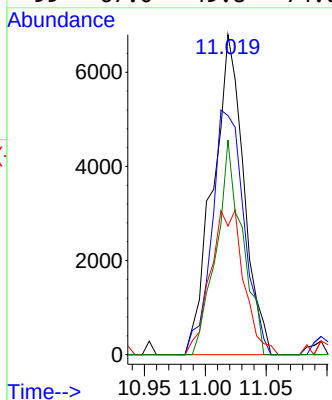
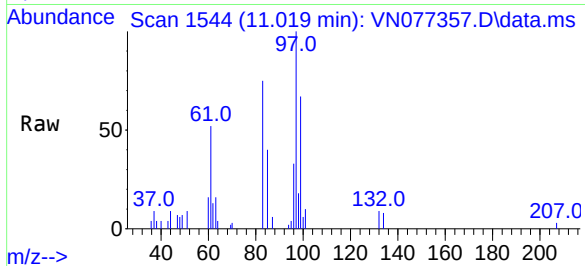




#55
1,1,2-Trichloroethane
Concen: 1.564 ug/l
RT: 11.019 min Scan# 11558
Delta R.T. -0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

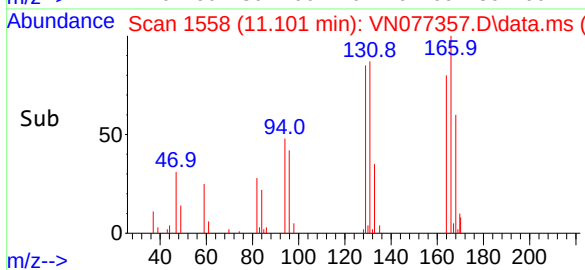
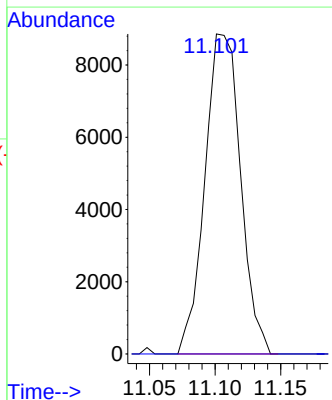
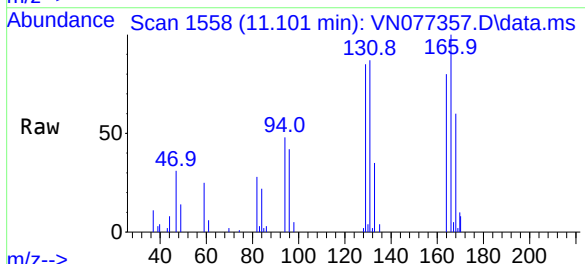
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

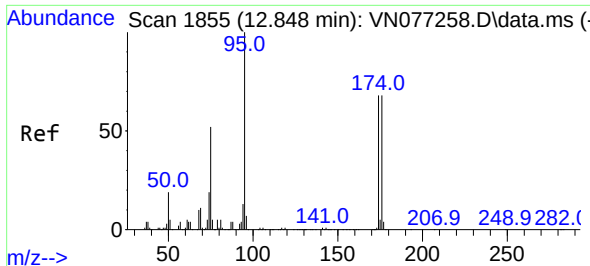
Tgt Ion: 97	Resp: 12000
Ion Ratio	Lower Upper
97 100	
83 74.7	67.4 101.2
85 40.2	44.1 66.1#
99 67.0	49.8 74.6



#60
Dibromochloromethane
Concen: 2.124 ug/l
RT: 11.101 min Scan# 1558
Delta R.T. -0.259 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion:129	Resp: 16776
Ion Ratio	Lower Upper
129 100	
127 0.0	38.1 114.5#

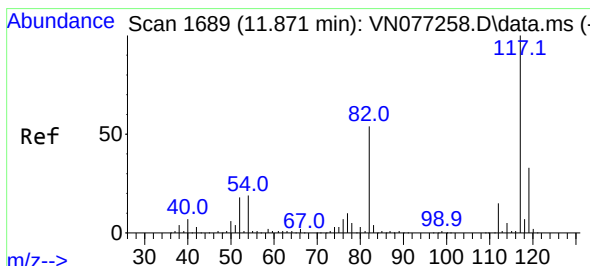
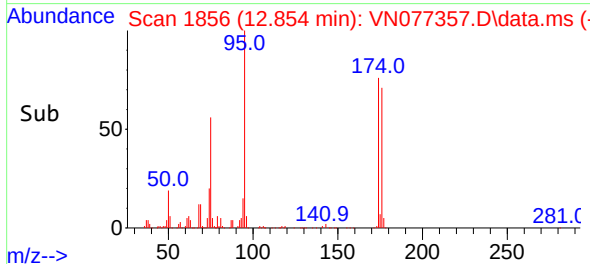
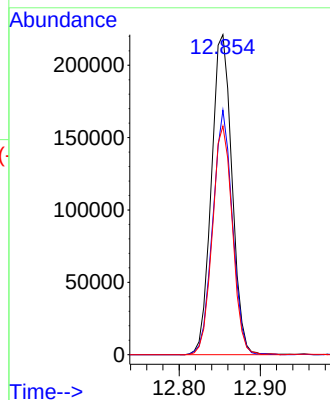
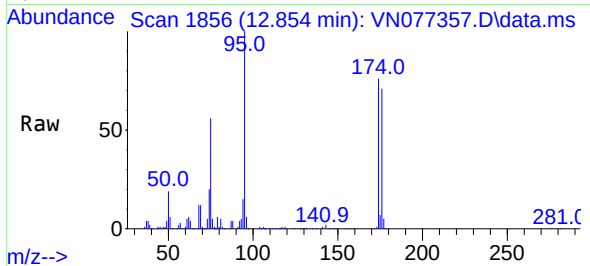




#62
4-Bromofluorobenzene
Concen: 44.794 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

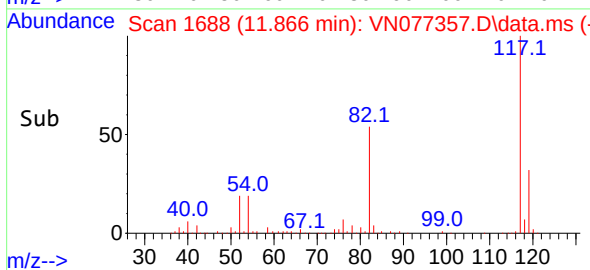
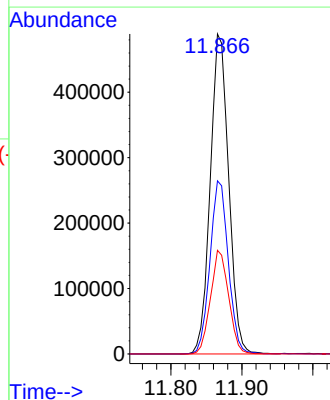
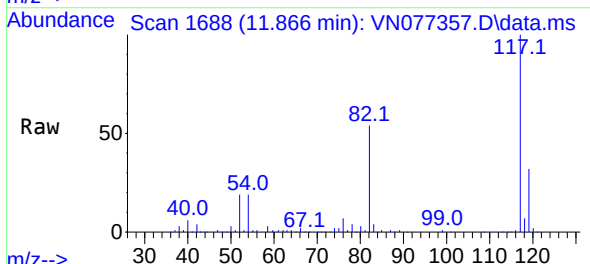
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

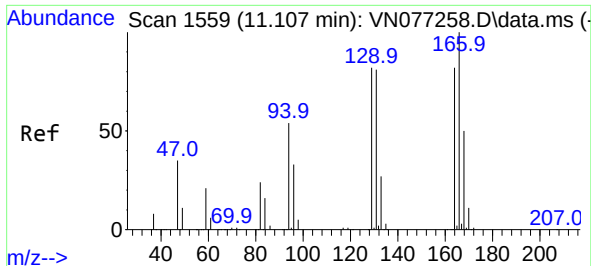
Tgt Ion:	95	Resp:	388101
Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	146.8
176	69.6	0.0	139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.005 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

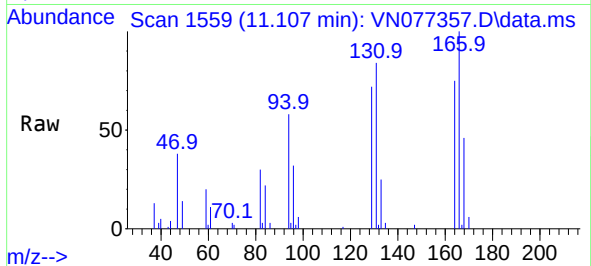
Tgt Ion:	117	Resp:	881337
Ion	Ratio	Lower	Upper
117	100		
82	54.1	42.9	64.3
119	32.4	26.2	39.4





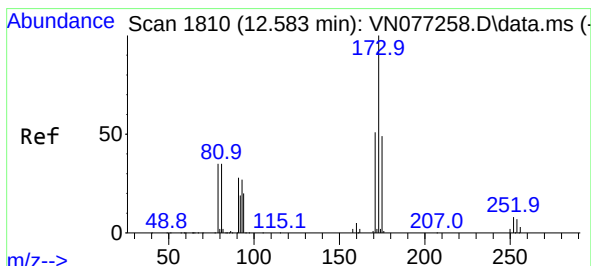
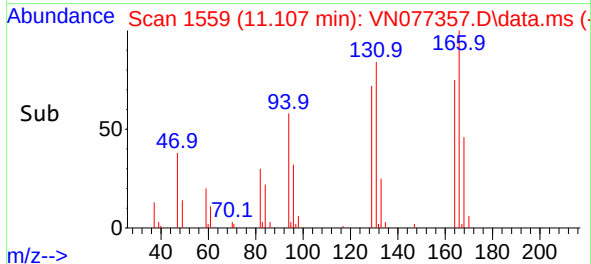
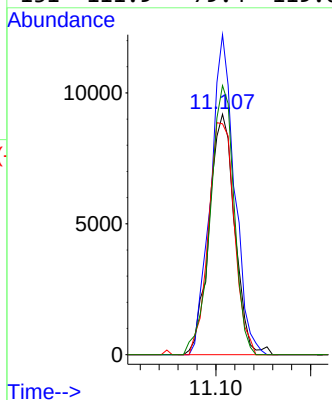
#64
Tetrachloroethene
Concen: 3.152 ug/l
RT: 11.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413



Tgt Ion:164 Resp: 17160

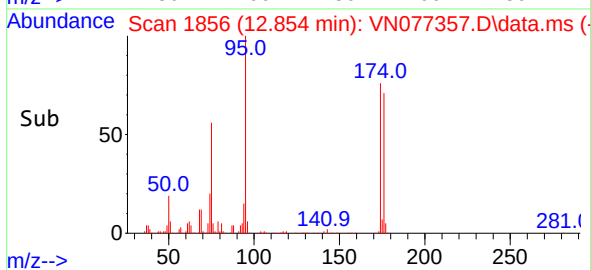
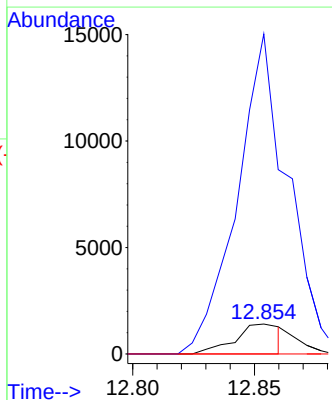
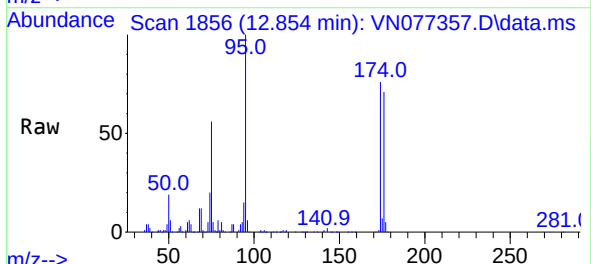
Ion	Ratio	Lower	Upper
164	100		
166	133.1	97.8	146.6
129	96.0	80.1	120.1
131	111.9	79.4	119.0

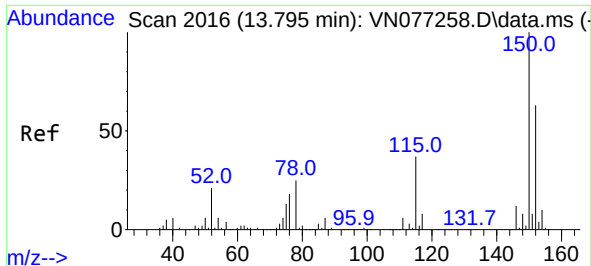


#71
Bromoform
Concen: 0.357 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Tgt Ion:173 Resp: 1847

Ion	Ratio	Lower	Upper
173	100		
175	917.4	24.1	72.4#
254	0.0	0.1	0.1#

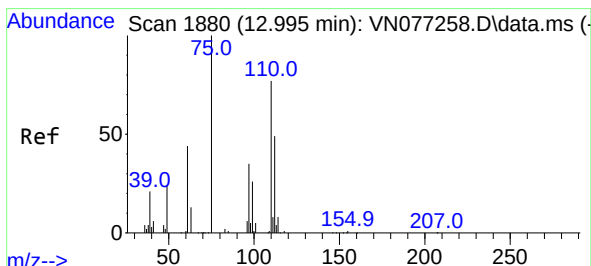
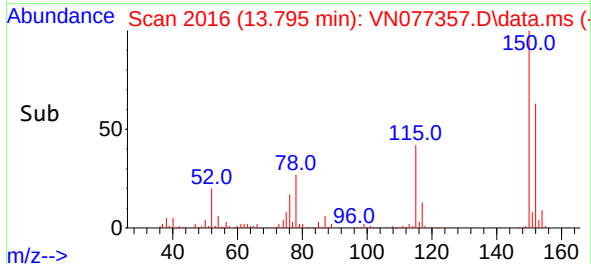
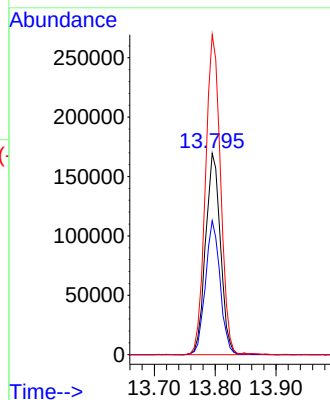
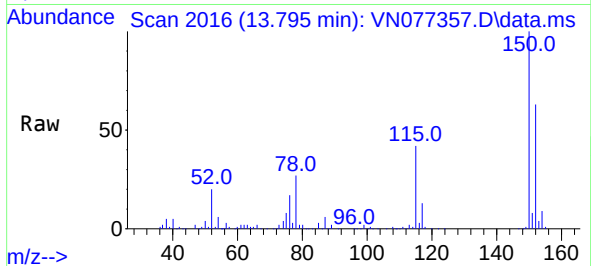




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

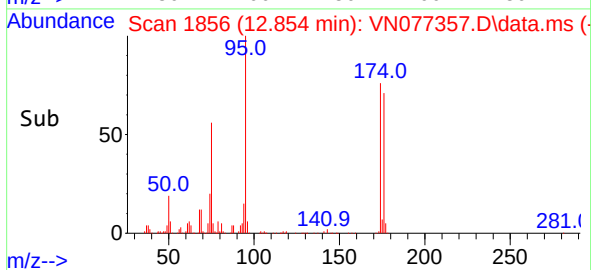
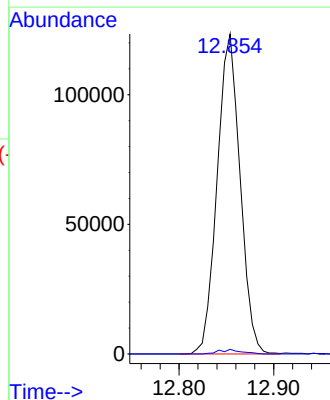
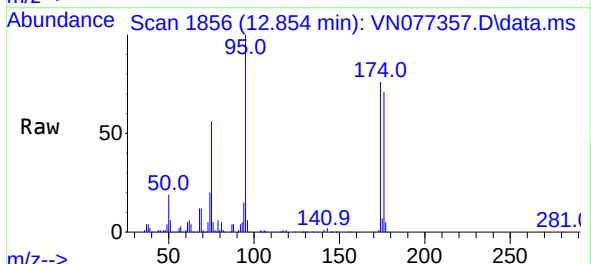
Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413

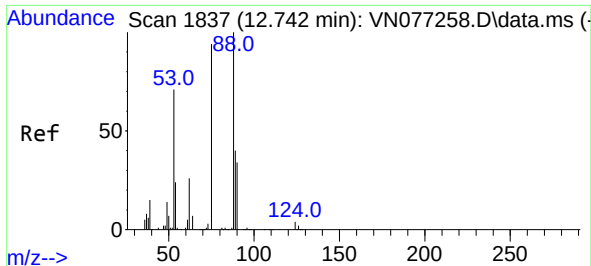
Tgt Ion:152 Resp: 288881
Ion Ratio Lower Upper
152 100
115 65.3 32.1 96.3
150 160.2 0.0 354.8



#76
1,2,3-Trichloropropane
Concen: 30.200 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

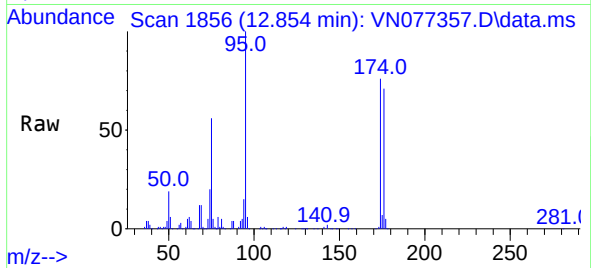
Tgt Ion: 75 Resp: 207745
Ion Ratio Lower Upper
75 100
77 1.4 88.3 264.9#





#81
trans-1,4-Dichloro-2-butene
Concen: 67.959 ug/l
RT: 12.854 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN077357.D
Acq: 17 Apr 2023 15:07

Instrument :
MSVOA_N
ClientSampleId :
BP-TT-RW5B-20230413



Tgt Ion: 75 Resp: 207745
Ion Ratio Lower Upper
75 100
53 0.0 72.8 109.2#
89 0.0 37.4 56.2#

