

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051923\
 Data File : VN077768.D
 Acq On : 19 May 2023 16:47
 Operator : JC\MD
 Sample : 02862-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW11-GW-148-150

Quant Time: May 29 09:50:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

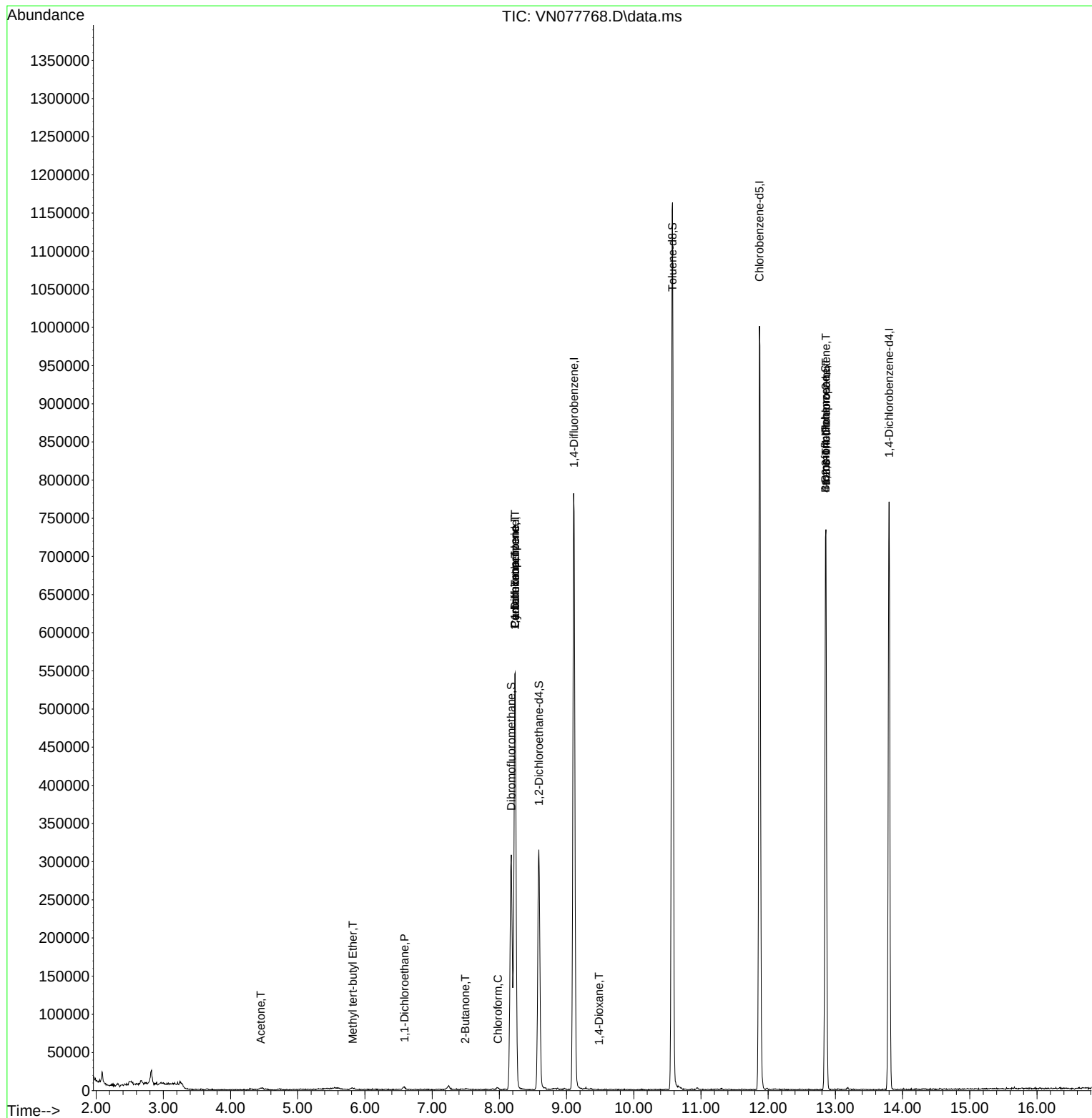
Internal Standards						
1) Pentafluorobenzene	8.235	168	389271	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	699183	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	602750	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	208712	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	260962	44.804	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	89.600%
35) Dibromofluoromethane	8.177	113	225762	49.517	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.040%
50) Toluene-d8	10.576	98	862181	49.130	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.260%
62) 4-Bromofluorobenzene	12.853	95	267520	43.163	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	86.320%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1107	Below Cal	#	83
13) Acrolein	4.206	56	303	Below Cal	#	39
16) Acetone	4.447	43	3700	2.019	ug/l #	70
19) Methyl tert-butyl Ether	5.818	73	3071	0.207	ug/l	98
20) Methylene Chloride	5.283	84	128	Below Cal	#	4
24) 1,1-Dichloroethane	6.588	63	5567	0.645	ug/l #	81
25) 2-Butanone	7.494	43	865	0.302	ug/l	88
30) Chloroform	7.977	83	2124	0.224	ug/l	86
31) Cyclohexane	8.235	56	8836	1.116	ug/l #	39
36) 1,1-Dichloropropene	8.229	75	34010	5.100	ug/l #	48
38) Carbon Tetrachloride	8.235	117	44687	6.636	ug/l #	16
49) 1,4-Dioxane	9.482	88	60	0.690	ug/l #	30
71) Bromoform	12.853	173	960	0.319	ug/l #	1
76) 1,2,3-Trichloropropane	12.859	75	141428	27.058	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	141428	86.491	ug/l #	15

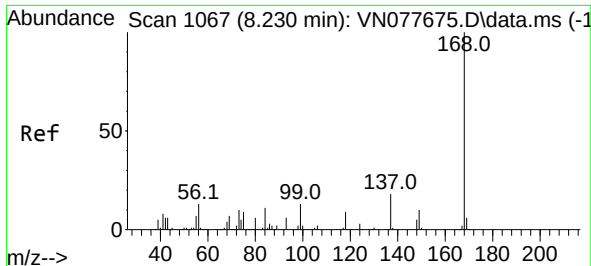
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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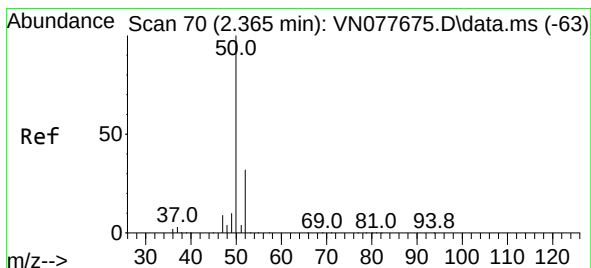
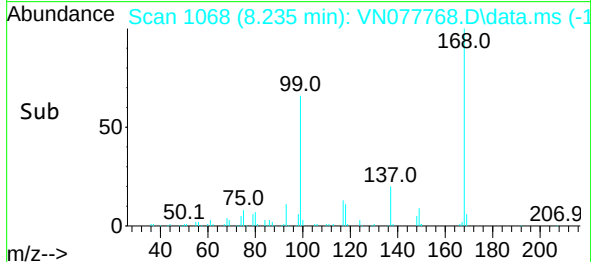
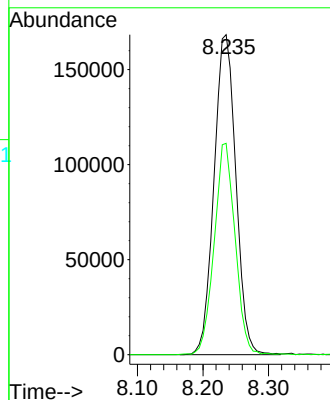
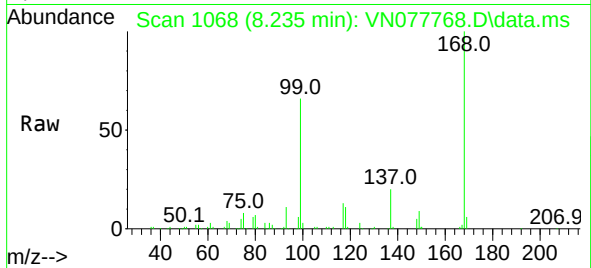




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

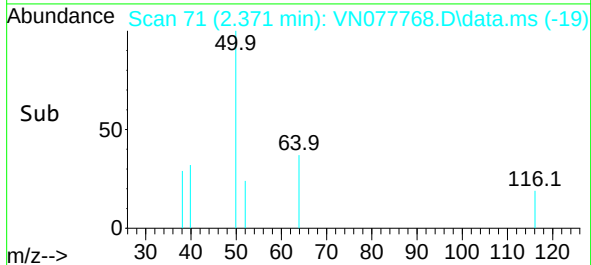
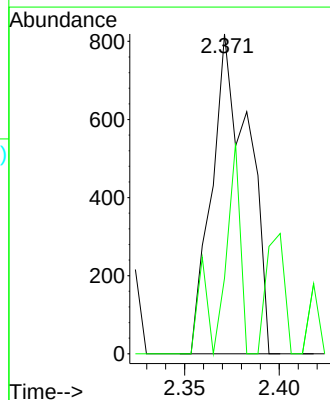
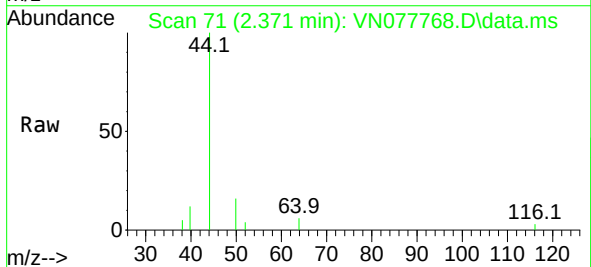
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-148-150

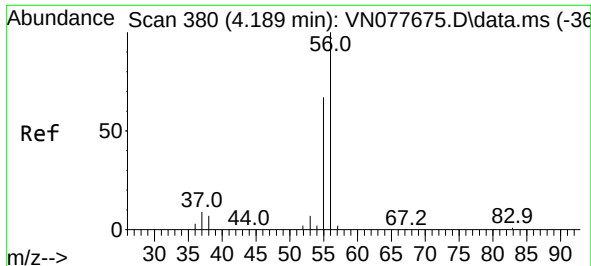
Tgt Ion:168 Resp: 389271
Ion Ratio Lower Upper
168 100
99 66.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

Tgt Ion: 50 Resp: 1107
Ion Ratio Lower Upper
50 100
52 23.7 26.5 39.7#

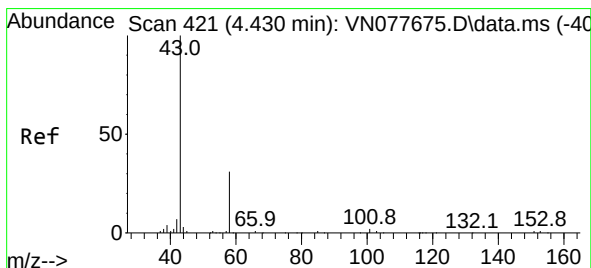
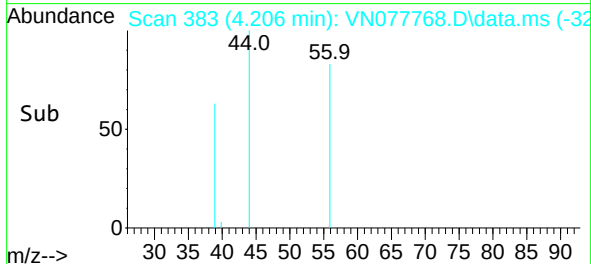
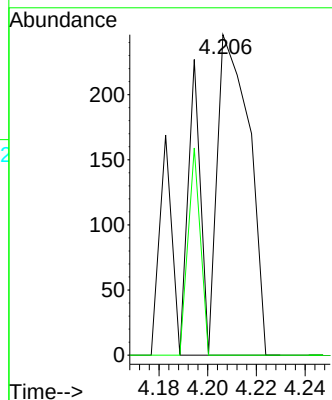
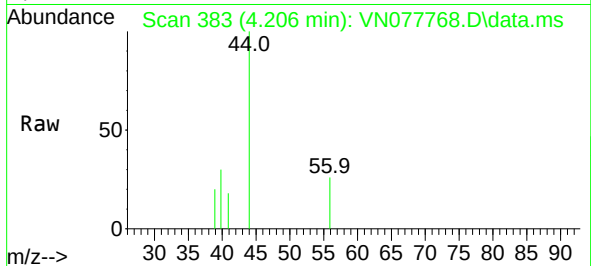




#13
Acrolein
Concen: Below Cal
RT: 4.206 min Scan# 383
Delta R.T. 0.017 min
Lab File: VN077675.D
Acq: 19 May 2023 16:47

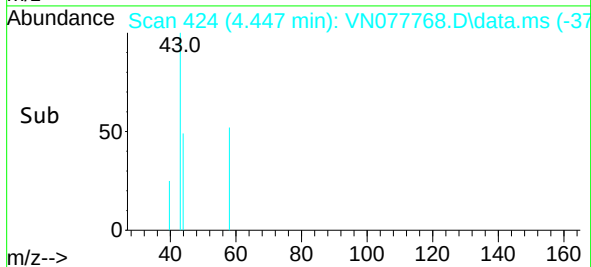
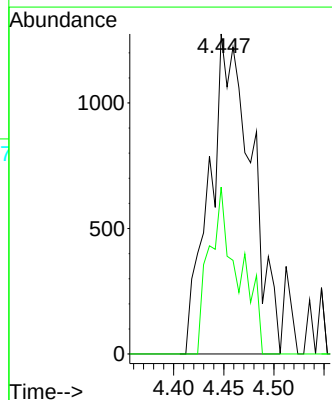
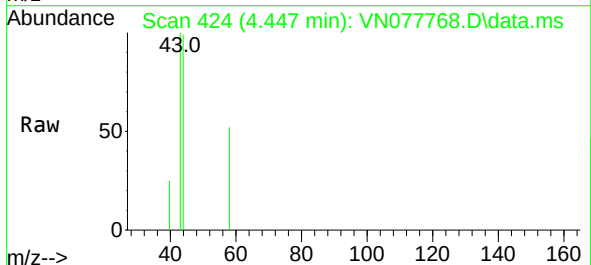
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-148-150

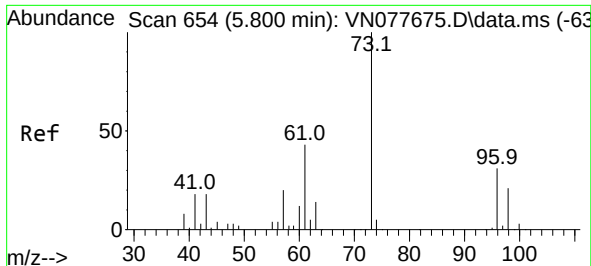
Tgt Ion: 56 Resp: 303
Ion Ratio Lower Upper
56 100
55 18.5 54.5 81.7#



#16
Acetone
Concen: 2.019 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.017 min
Lab File: VN077675.D
Acq: 19 May 2023 16:47

Tgt Ion: 43 Resp: 3700
Ion Ratio Lower Upper
43 100
58 52.2 28.0 42.0#





#19

Methyl tert-butyl Ether

Concen: 0.207 ug/l

RT: 5.818 min Scan# 61

Delta R.T. 0.018 min

Lab File: VN077768.D

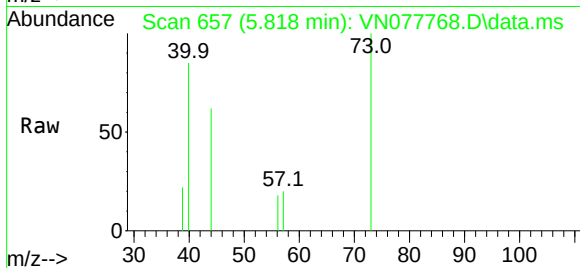
Acq: 19 May 2023 16:47

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW11-GW-148-150

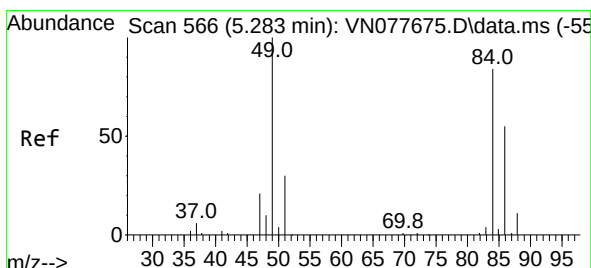
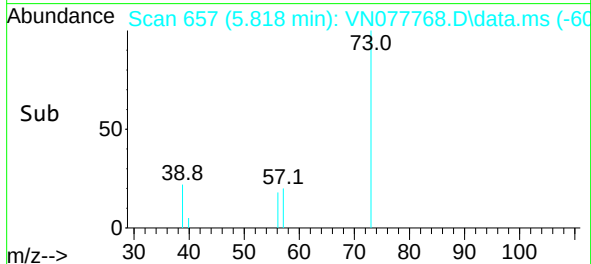
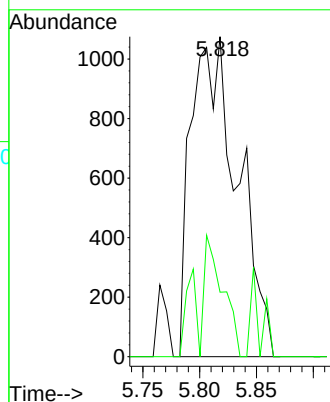


Tgt Ion: 73 Resp: 3071

Ion Ratio Lower Upper

73 100

57 20.2 15.6 23.4



#20

Methylene Chloride

Concen: Below Cal

RT: 5.283 min Scan# 566

Delta R.T. -0.000 min

Lab File: VN077768.D

Acq: 19 May 2023 16:47

Tgt Ion: 84 Resp: 128

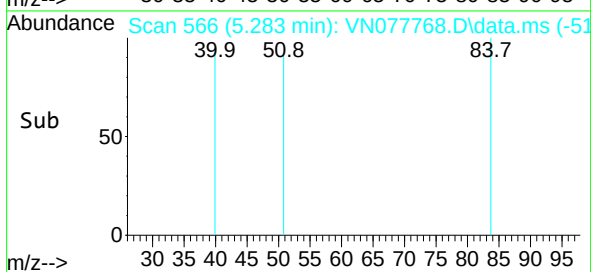
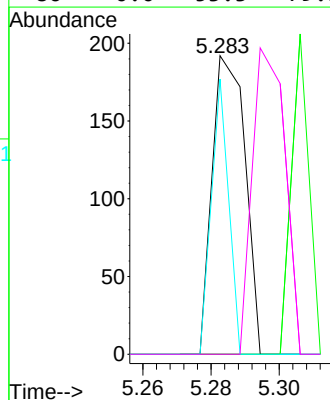
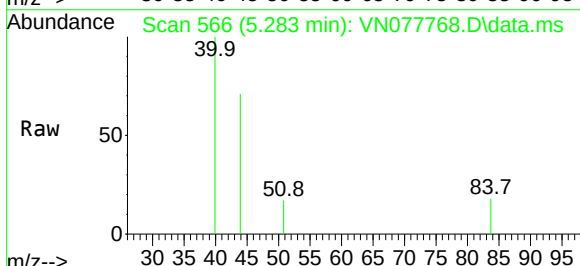
Ion Ratio Lower Upper

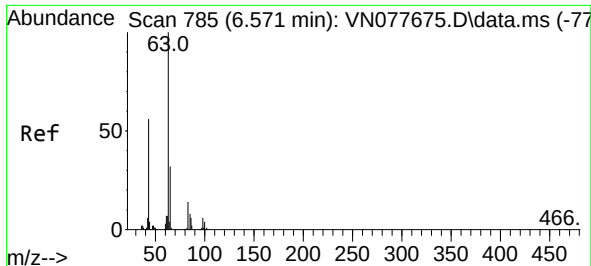
84 100

49 0.0 79.7 119.5#

51 92.2 25.2 37.8#

86 0.0 53.3 79.9#

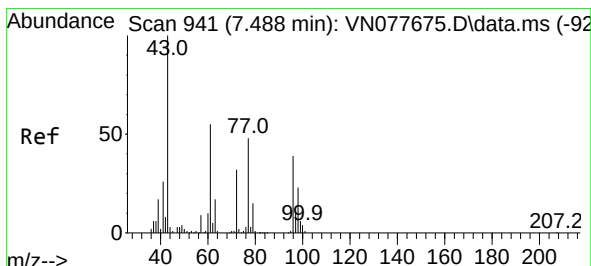
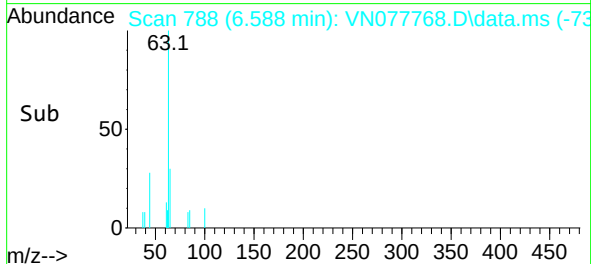
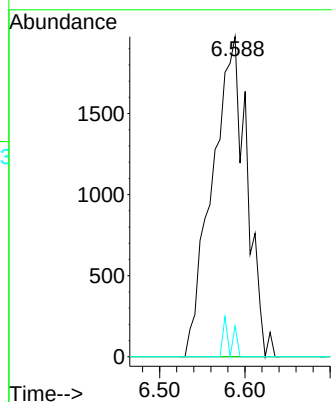
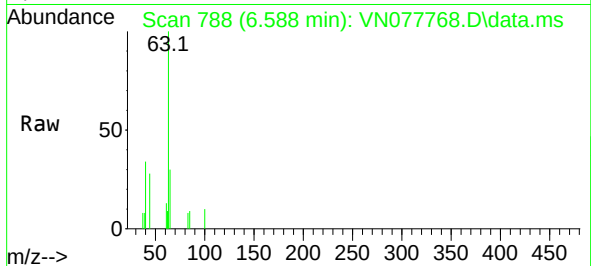




#24
1,1-Dichloroethane
Concen: 0.645 ug/l
RT: 6.588 min Scan# 71
Delta R.T. 0.017 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

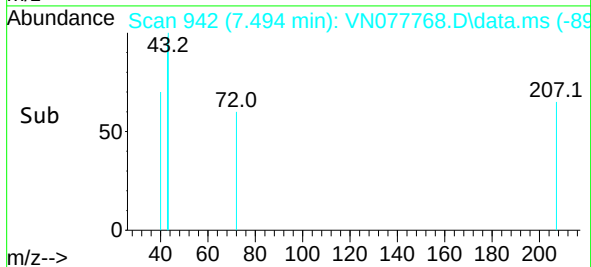
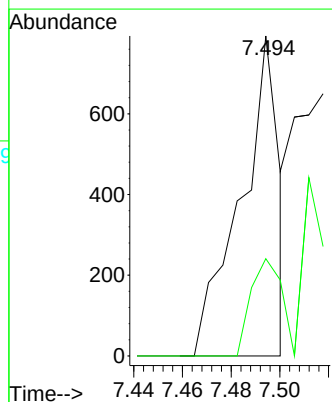
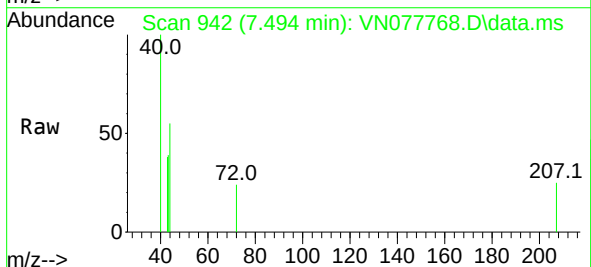
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-148-150

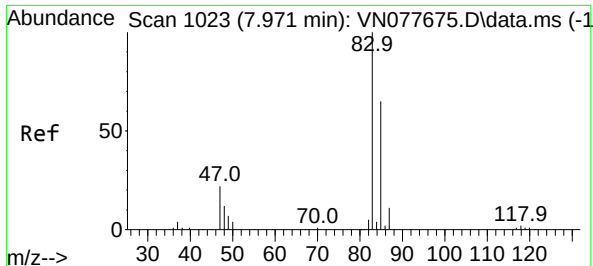
Tgt Ion: 63 Resp: 5567
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 9.6 2.5 7.4#



#25
2-Butanone
Concen: 0.302 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

Tgt Ion: 43 Resp: 865
Ion Ratio Lower Upper
43 100
72 30.4 30.2 45.2





#30

Chloroform

Concen: 0.224 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. 0.006 min

Lab File: VN077768.D

Acq: 19 May 2023 16:47

Instrument :

MSVOA_N

ClientSampleId :

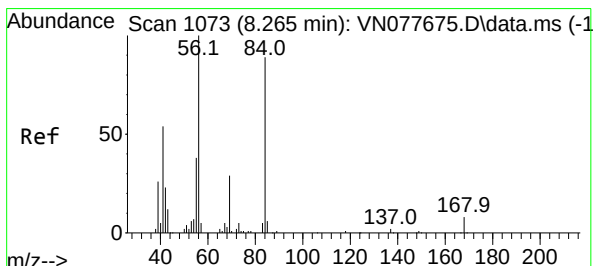
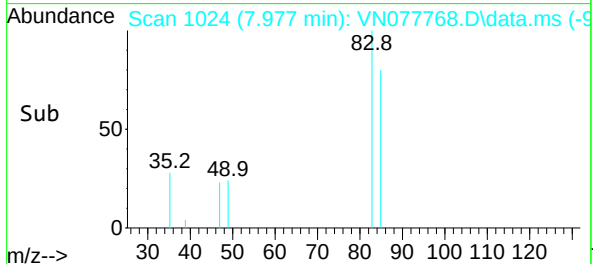
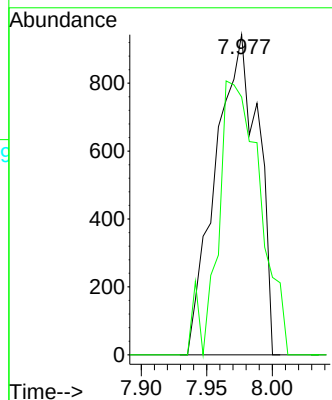
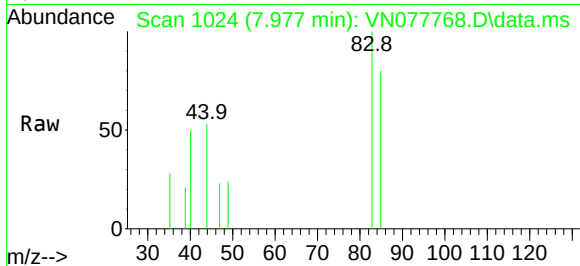
BP-VPB-RW11-GW-148-150

Tgt Ion: 83 Resp: 2124

Ion Ratio Lower Upper

83 100

85 80.5 55.4 83.0



#31

Cyclohexane

Concen: 1.116 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.030 min

Lab File: VN077768.D

Acq: 19 May 2023 16:47

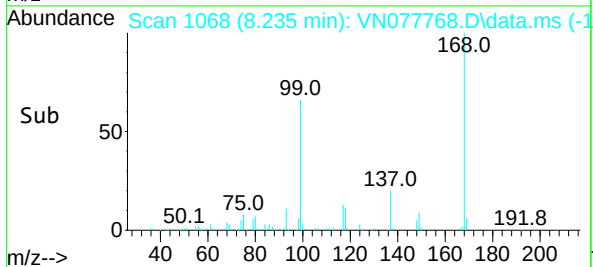
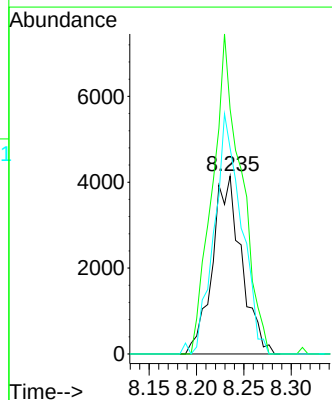
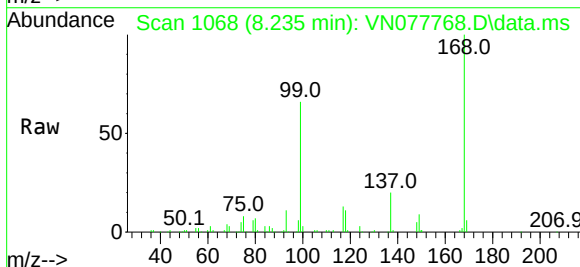
Tgt Ion: 56 Resp: 8836

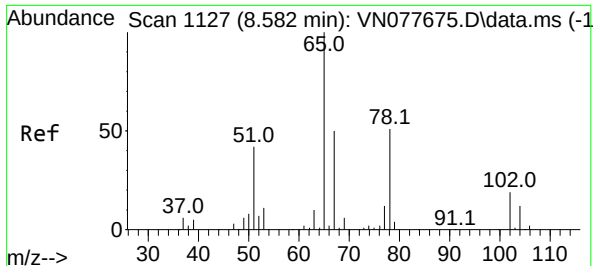
Ion Ratio Lower Upper

56 100

69 137.6 26.8 40.2#

84 123.2 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 44.804 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN077768.D

Acq: 19 May 2023 16:47

Instrument :

MSVOA_N

ClientSampleId :

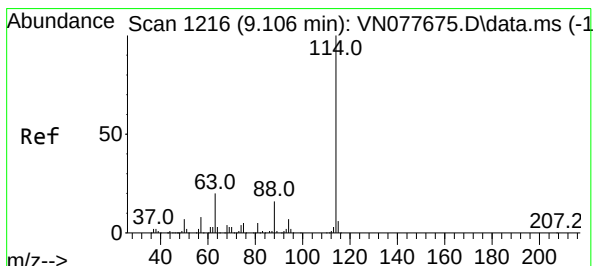
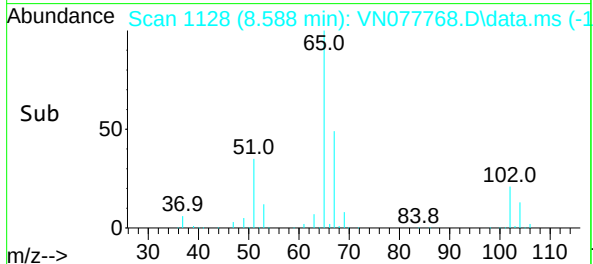
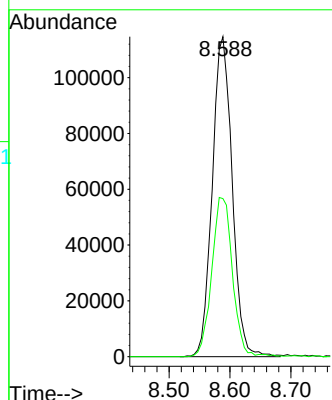
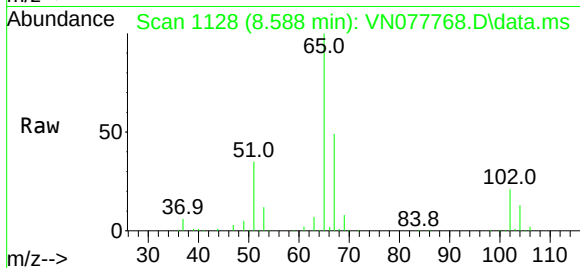
BP-VPB-RW11-GW-148-150

Tgt Ion: 65 Resp: 260962

Ion Ratio Lower Upper

65 100

67 51.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN077768.D

Acq: 19 May 2023 16:47

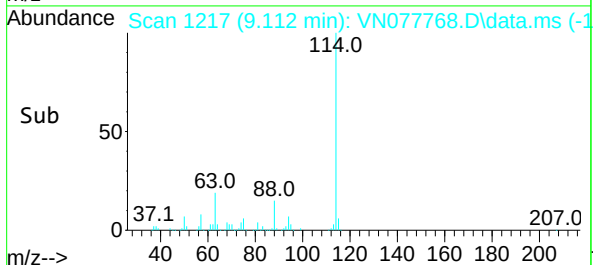
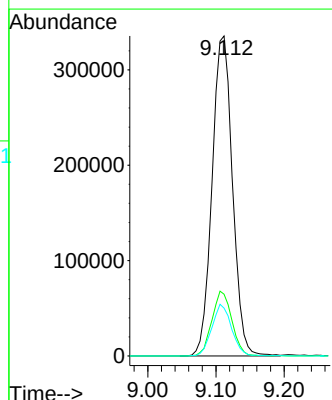
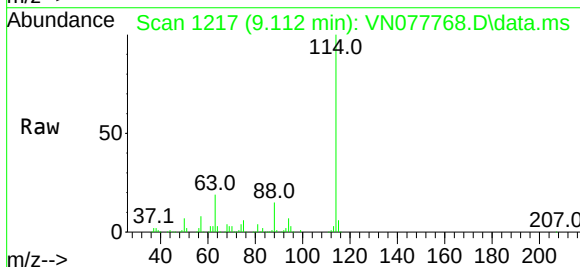
Tgt Ion: 114 Resp: 699183

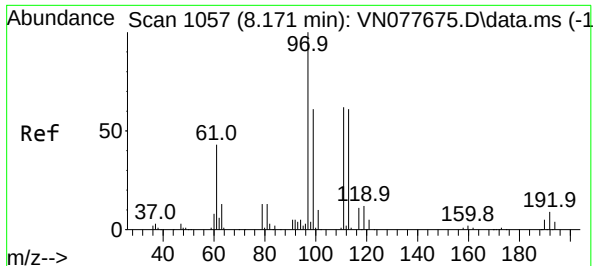
Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.4

88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.517 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN077768.D

Acq: 19 May 2023 16:47

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW11-GW-148-150

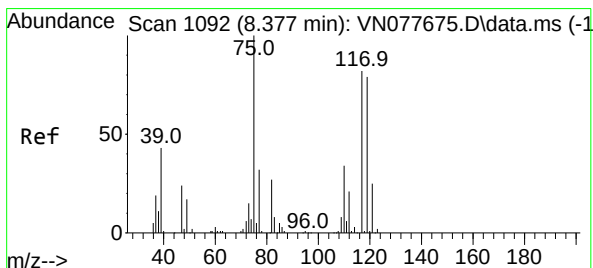
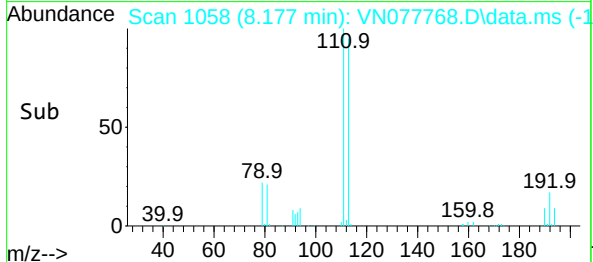
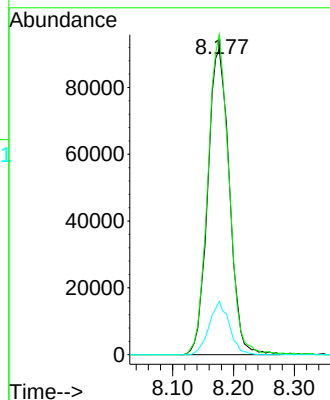
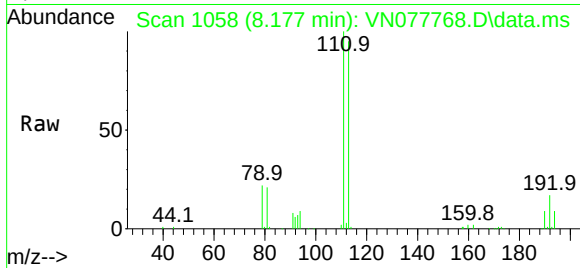
Tgt Ion:113 Resp: 225762

Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

192 16.2 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.100 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.148 min

Lab File: VN077768.D

Acq: 19 May 2023 16:47

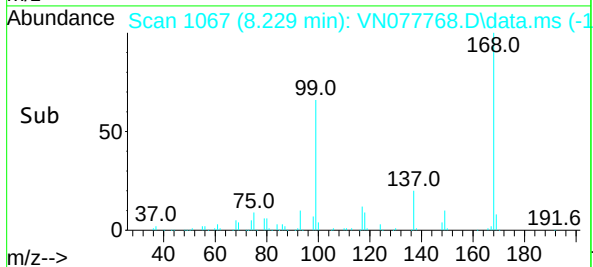
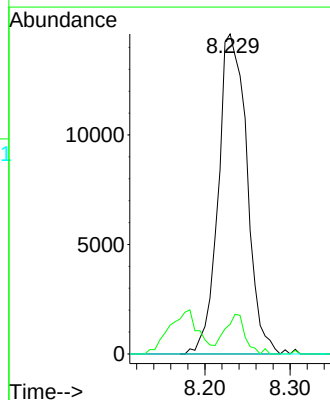
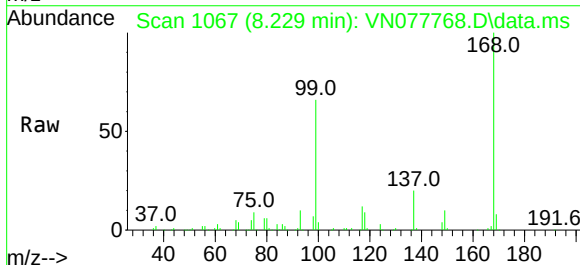
Tgt Ion: 75 Resp: 34010

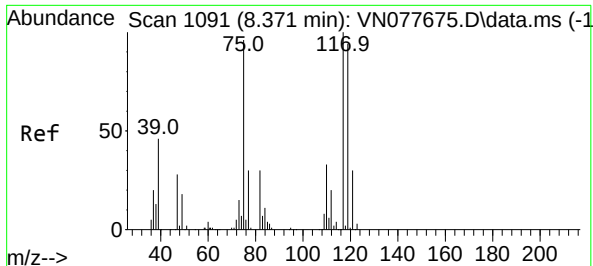
Ion Ratio Lower Upper

75 100

110 8.8 19.1 57.3#

77 0.0 25.0 37.4#

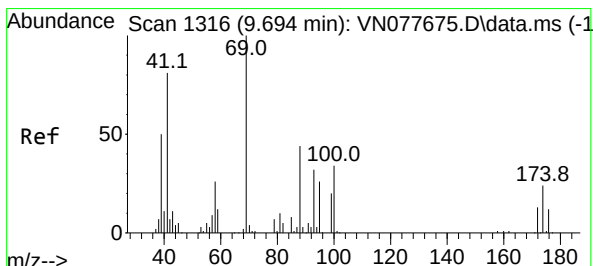
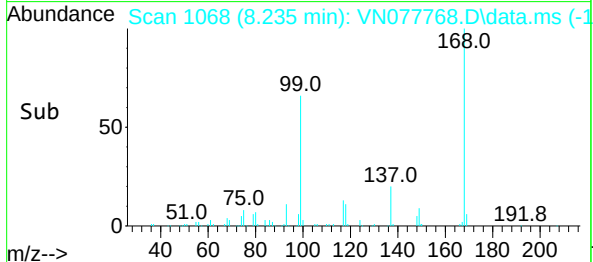
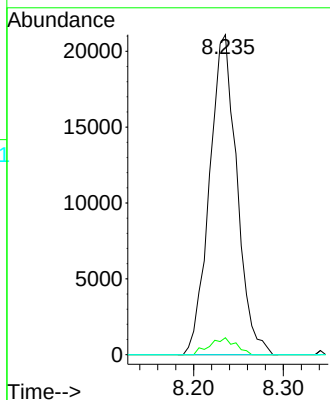
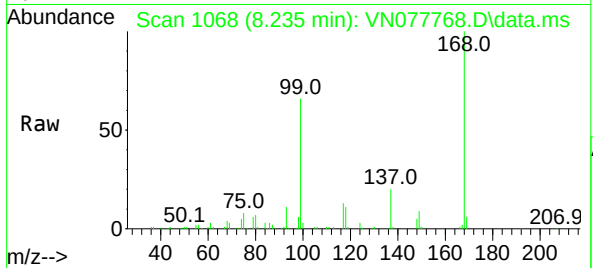




#38
Carbon Tetrachloride
Concen: 6.636 ug/l
RT: 8.235 min Scan# 117
Delta R.T. -0.136 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

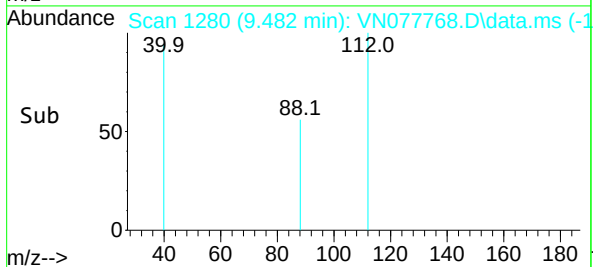
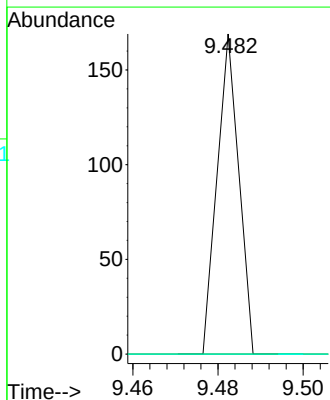
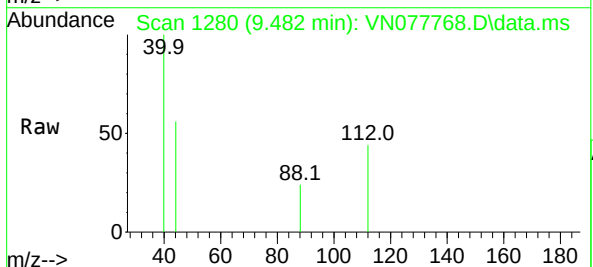
Instrument : MSVOA_N
ClientSampleId : BP-VPB-RW11-GW-148-150

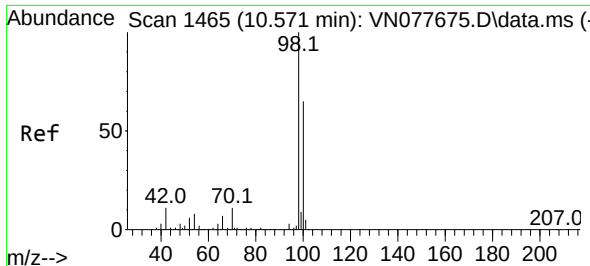
Tgt Ion: 117 Resp: 44687
Ion Ratio Lower Upper
117 100
119 5.3 77.3 115.9#
121 0.0 23.3 34.9#



#49
1,4-Dioxane
Concen: 0.690 ug/l
RT: 9.482 min Scan# 1280
Delta R.T. -0.212 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

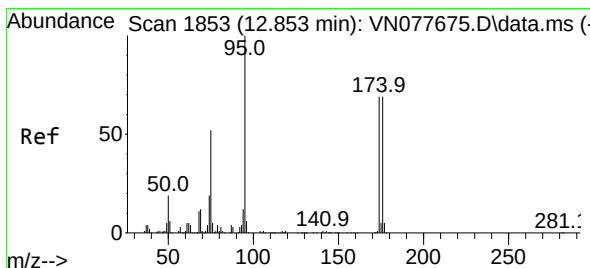
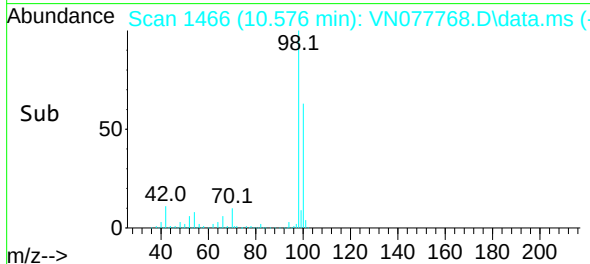
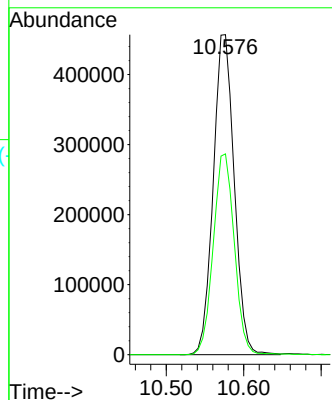
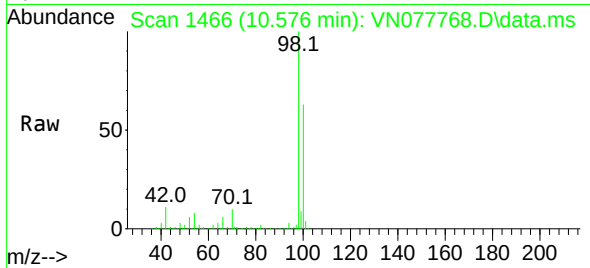




#50
Toluene-d8
Concen: 49.130 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

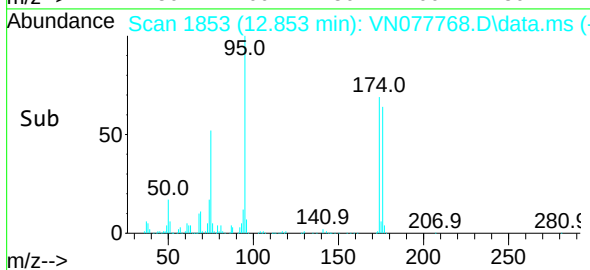
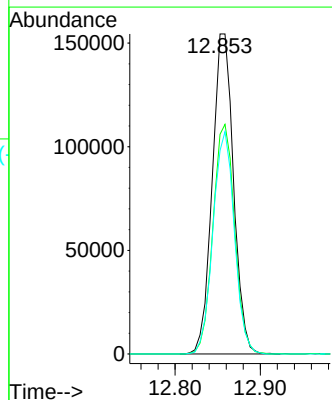
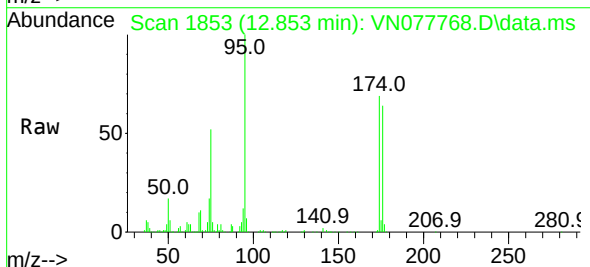
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-148-150

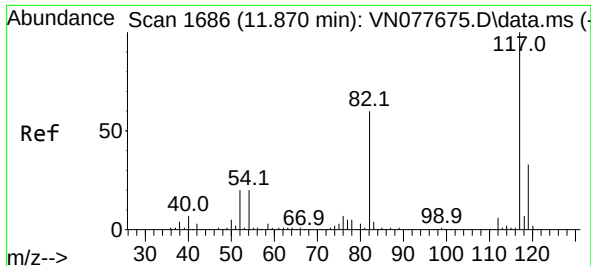
Tgt Ion: 98 Resp: 862181
Ion Ratio Lower Upper
98 100
100 63.1 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 43.163 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

Tgt Ion: 95 Resp: 267520
Ion Ratio Lower Upper
95 100
174 73.1 0.0 143.8
176 69.8 0.0 135.8

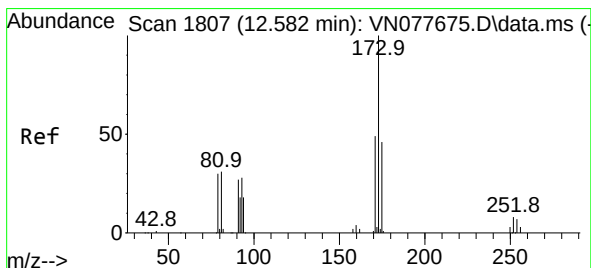
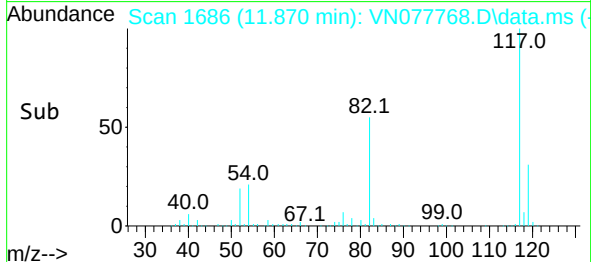
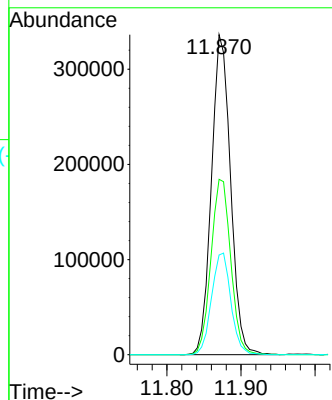
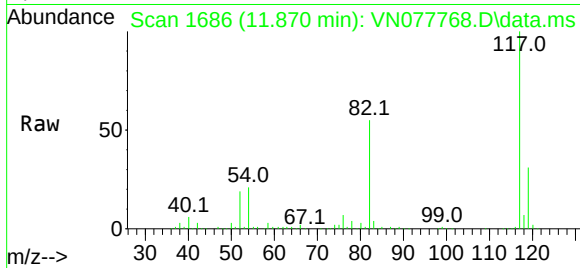




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

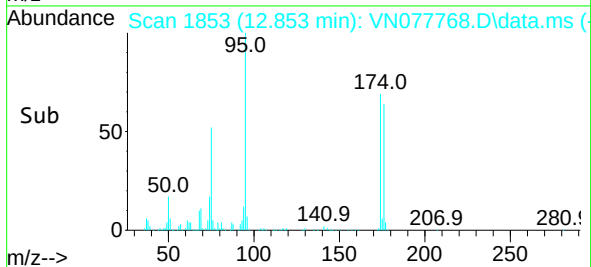
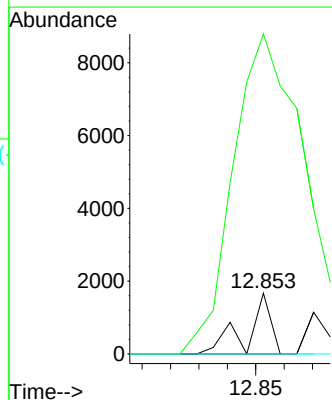
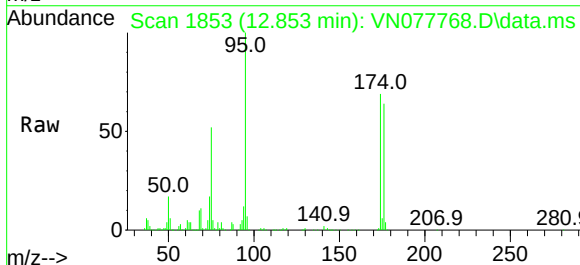
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-148-150

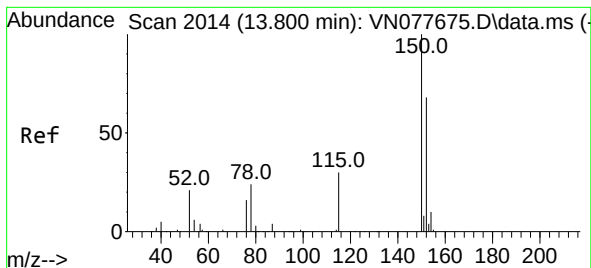
Tgt Ion:117 Resp: 602750
Ion Ratio Lower Upper
117 100
82 54.8 44.0 66.0
119 31.2 25.6 38.4



#71
Bromoform
Concen: 0.319 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN077768.D
Acq: 19 May 2023 16:47

Tgt Ion:173 Resp: 960
Ion Ratio Lower Upper
173 100
175 1107.6 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN077768.D

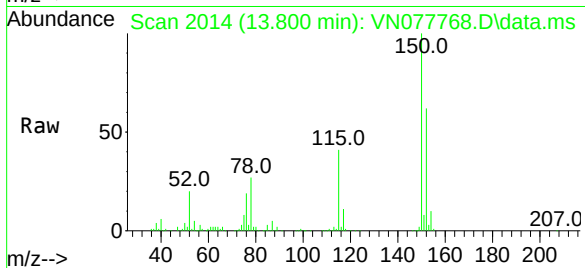
Acq: 19 May 2023 16:47

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW11-GW-148-150



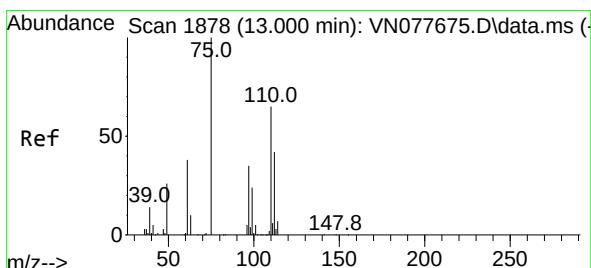
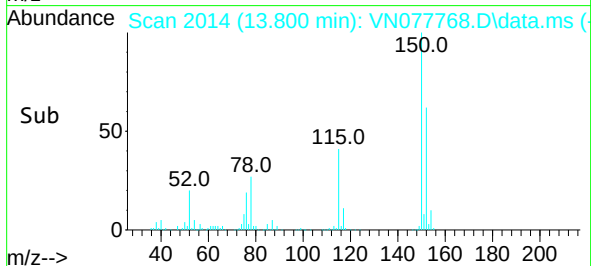
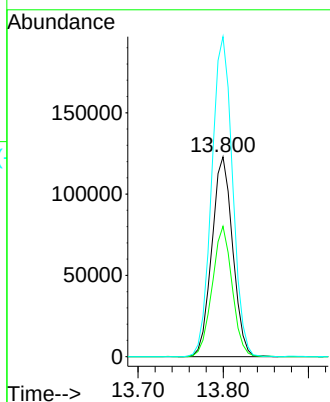
Tgt Ion:152 Resp: 208712

Ion Ratio Lower Upper

152 100

115 62.6 32.3 96.8

150 160.3 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 27.058 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN077768.D

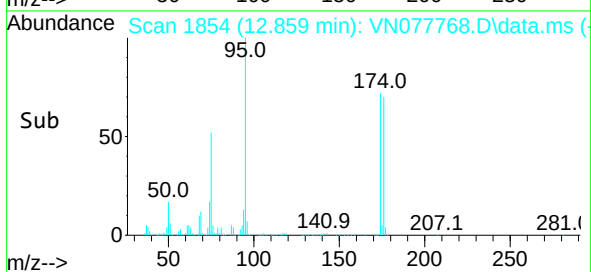
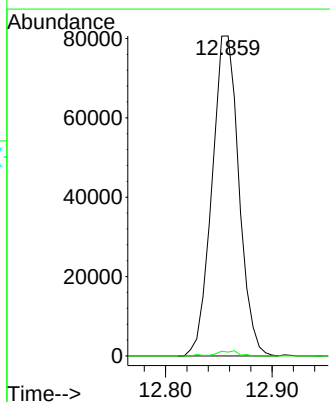
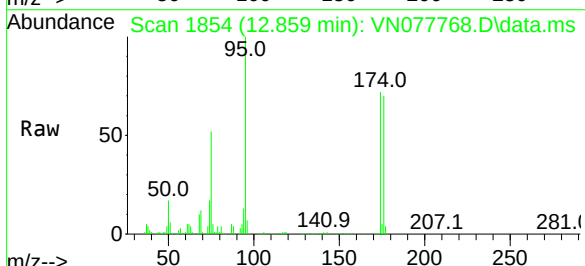
Acq: 19 May 2023 16:47

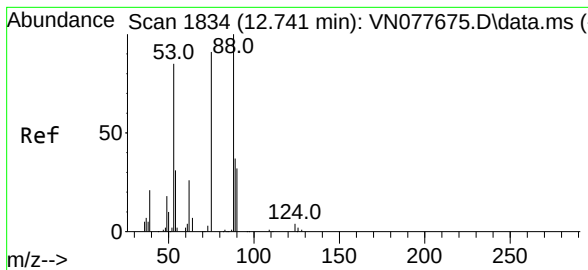
Tgt Ion: 75 Resp: 141428

Ion Ratio Lower Upper

75 100

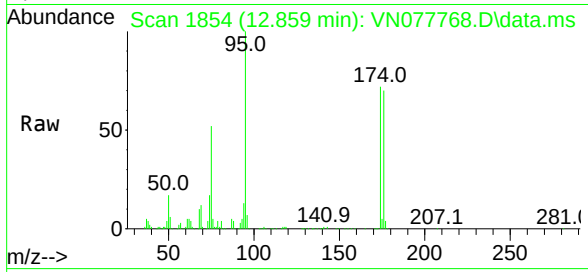
77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 86.491 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN077768.D
 Acq: 19 May 2023 16:47

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW11-GW-148-150



Tgt Ion: 75 Resp: 141428
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.1 38.8 58.2#

