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 Data File : VN077772.D
 Acq On : 19 May 2023 18:22
 Operator : JC\MD
 Sample : 02862-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

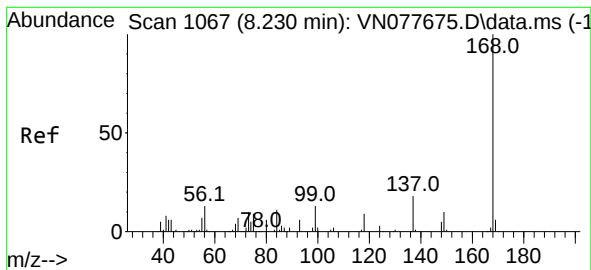
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW11-GW-238-240

Quant Time: May 29 09:52:24 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	385943	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	691941	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	602825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	210415	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	259643	44.962	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	89.920%
35) Dibromofluoromethane	8.177	113	218190	48.357	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.720%
50) Toluene-d8	10.571	98	854242	49.187	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.380%
62) 4-Bromofluorobenzene	12.859	95	272650	44.451	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	88.900%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1328	Below Cal		89
11) Tert butyl alcohol	5.518	59	785	0.985 ug/l	#	72
13) Acrolein	4.189	56	140	Below Cal	#	16
16) Acetone	4.436	43	9198	5.063 ug/l	#	75
17) Carbon Disulfide	4.712	76	3542	0.324 ug/l	#	75
19) Methyl tert-butyl Ether	5.806	73	4429	0.301 ug/l	#	84
20) Methylene Chloride	5.300	84	62	Below Cal	#	29
24) 1,1-Dichloroethane	6.577	63	1856	0.217 ug/l	#	81
25) 2-Butanone	7.500	43	1360	0.479 ug/l	#	37
30) Chloroform	7.988	83	2221	0.236 ug/l	#	81
31) Cyclohexane	8.230	56	9240	1.177 ug/l	#	54
32) 1,1,1-Trichloroethane	8.171	97	1679	0.210 ug/l	#	46
36) 1,1-Dichloropropene	8.235	75	32064	4.858 ug/l	#	47
38) Carbon Tetrachloride	8.235	117	40560	6.086 ug/l	#	15
71) Bromoform	12.853	173	1853	0.616 ug/l	#	28
76) 1,2,3-Trichloropropane	12.853	75	143285	27.191 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	143285	86.917 ug/l	#	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN077772.D

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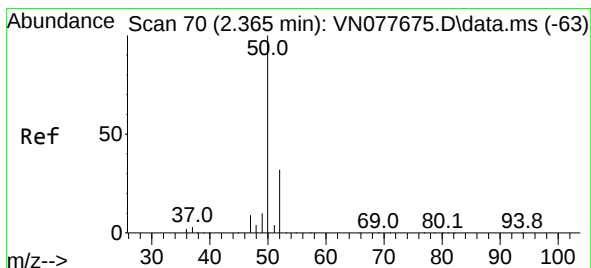
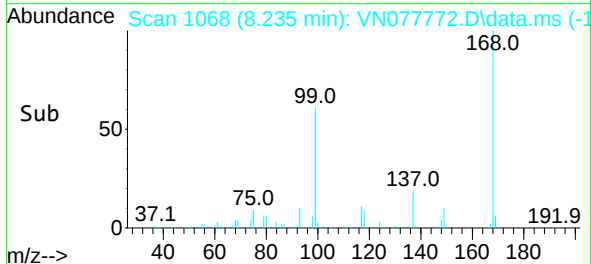
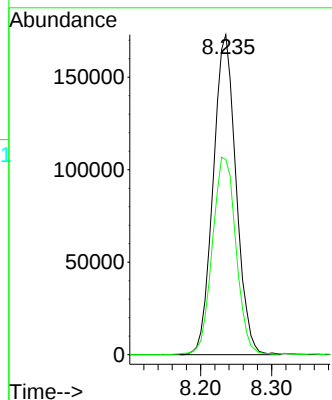
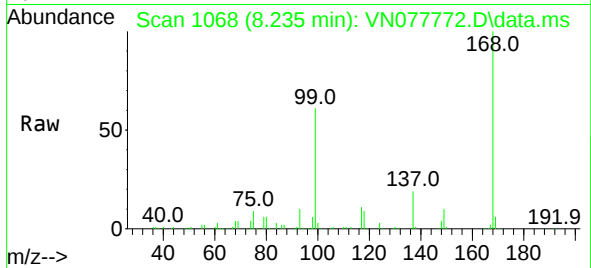
BP-VPB-RW11-GW-238-240

Tgt Ion:168 Resp: 385943

Ion Ratio Lower Upper

168 100

99 60.7 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.012 min

Lab File: VN077772.D

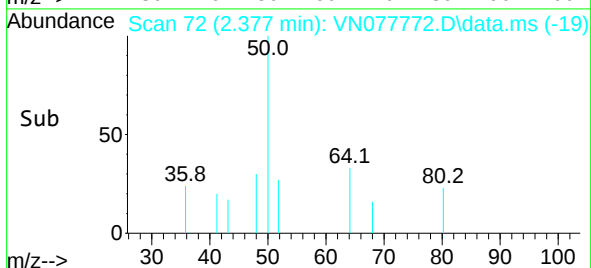
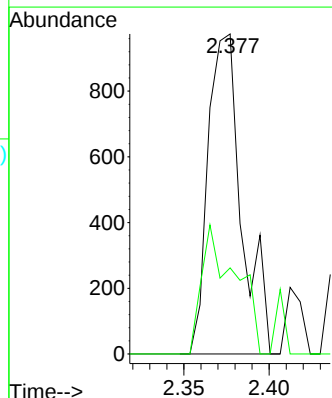
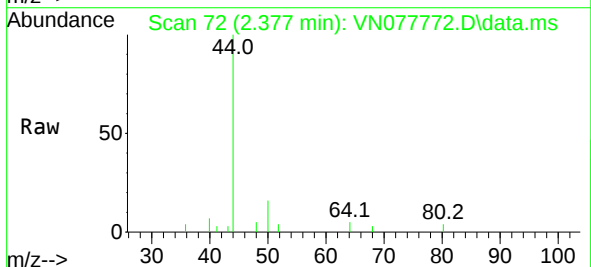
Acq: 19 May 2023 18:22

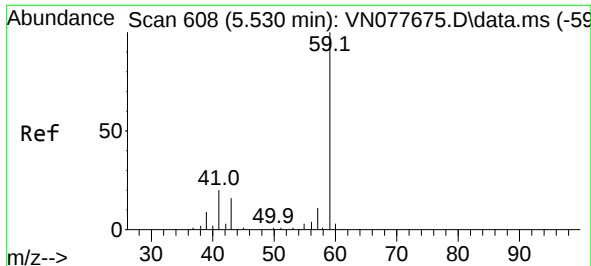
Tgt Ion: 50 Resp: 1328

Ion Ratio Lower Upper

50 100

52 26.9 26.5 39.7





#11

Tert butyl alcohol

Concen: 0.985 ug/l

RT: 5.518 min Scan# 608

Delta R.T. -0.012 min

Lab File: VN077772.D

Acq: 19 May 2023 18:22

Instrument :

MSVOA_N

ClientSampleId :

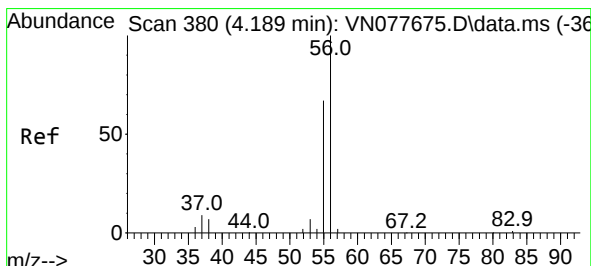
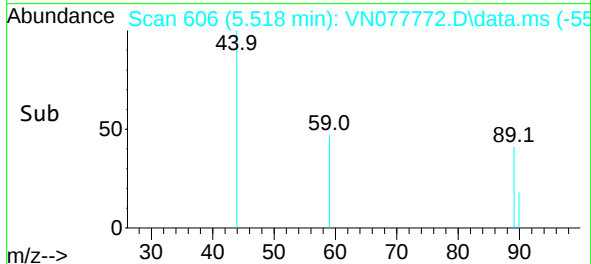
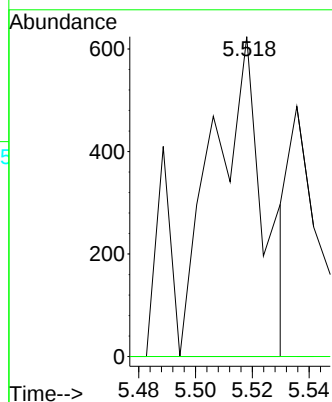
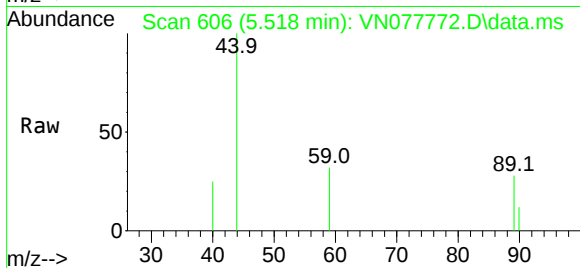
BP-VPB-RW11-GW-238-240

Tgt Ion: 59 Resp: 785

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: Below Cal

RT: 4.189 min Scan# 380

Delta R.T. -0.000 min

Lab File: VN077772.D

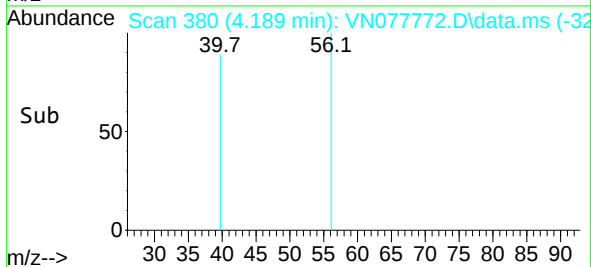
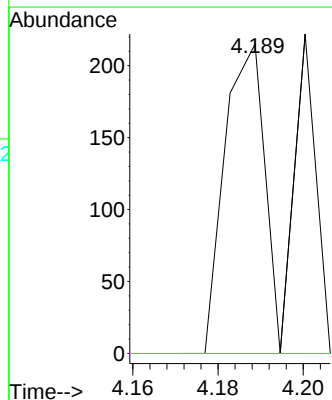
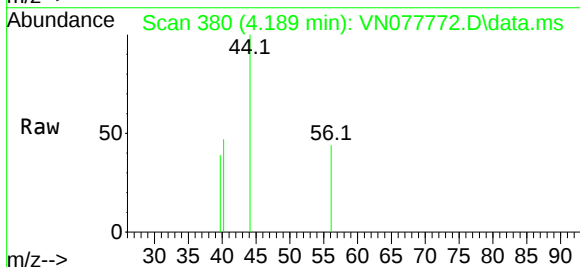
Acq: 19 May 2023 18:22

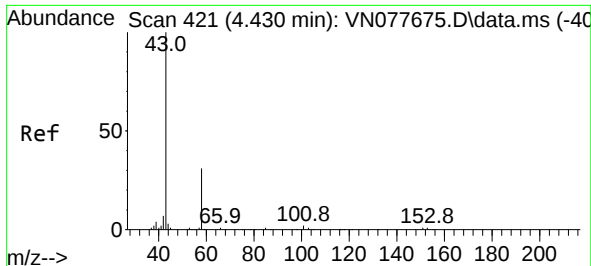
Tgt Ion: 56 Resp: 140

Ion Ratio Lower Upper

56 100

55 0.0 54.5 81.7#

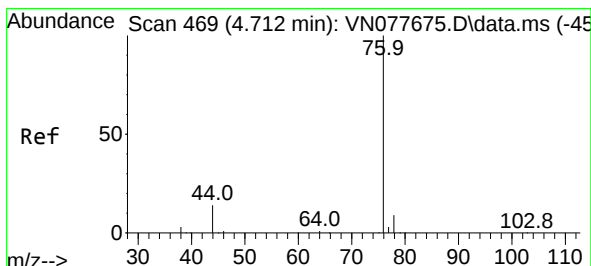
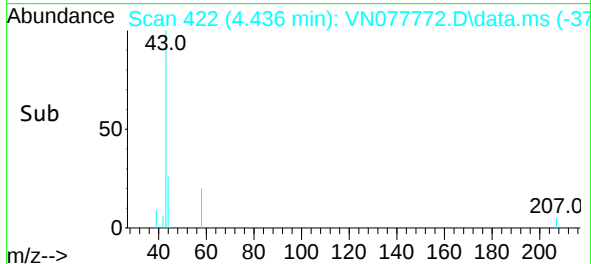
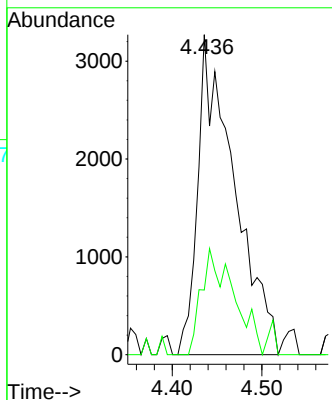
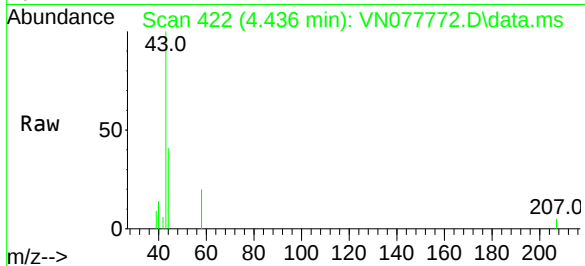




#16
Acetone
Concen: 5.063 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

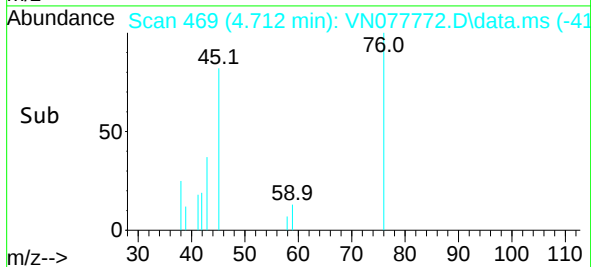
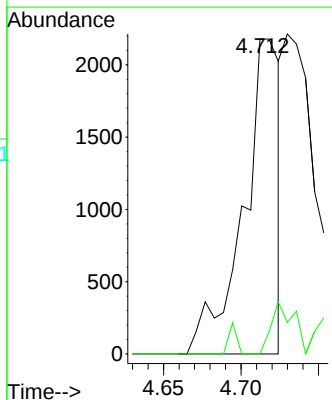
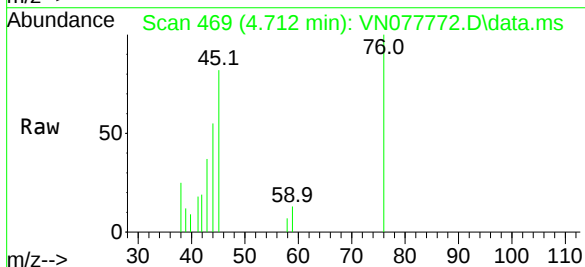
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MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-238-240

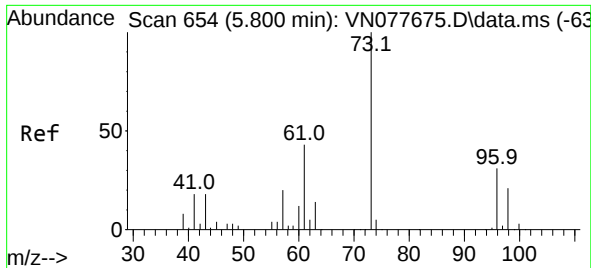
Tgt Ion: 43 Resp: 9198
Ion Ratio Lower Upper
43 100
58 20.2 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.324 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

Tgt Ion: 76 Resp: 3542
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

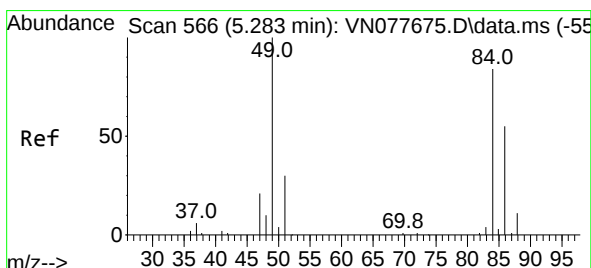
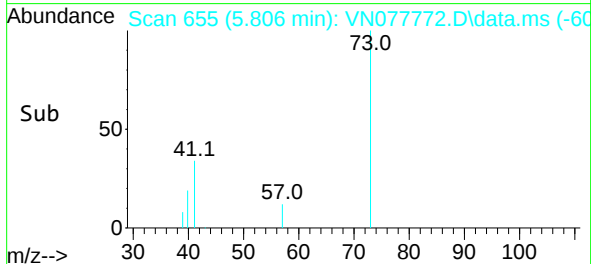
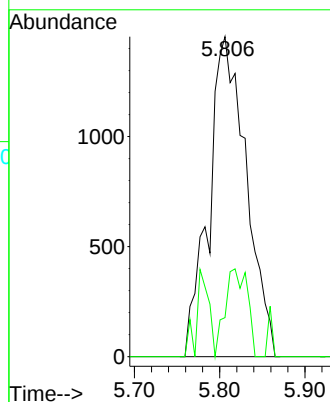
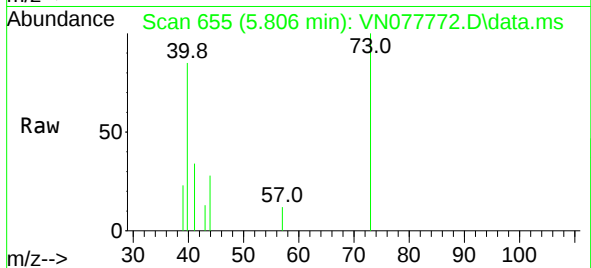




#19
Methyl tert-butyl Ether
Concen: 0.301 ug/l
RT: 5.806 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

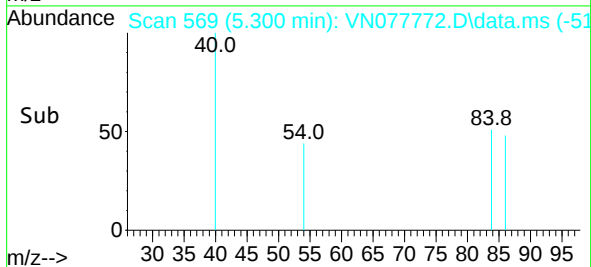
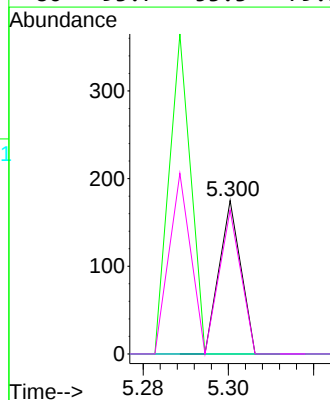
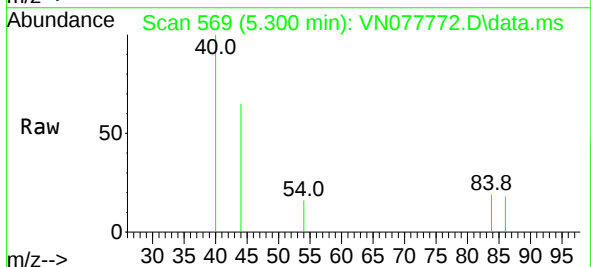
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-238-240

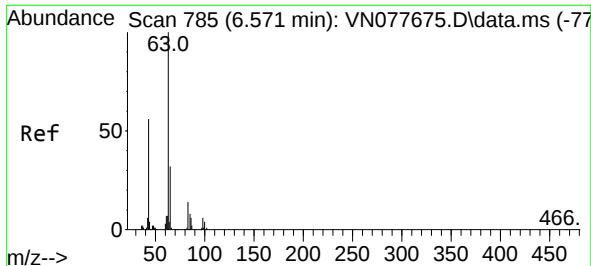
Tgt Ion: 73 Resp: 4429
Ion Ratio Lower Upper
73 100
57 12.2 15.6 23.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.300 min Scan# 569
Delta R.T. 0.017 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

Tgt Ion: 84 Resp: 62
Ion Ratio Lower Upper
84 100
49 0.0 79.7 119.5#
51 0.0 25.2 37.8#
86 93.7 53.3 79.9#

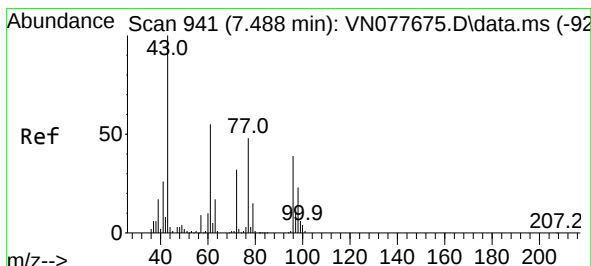
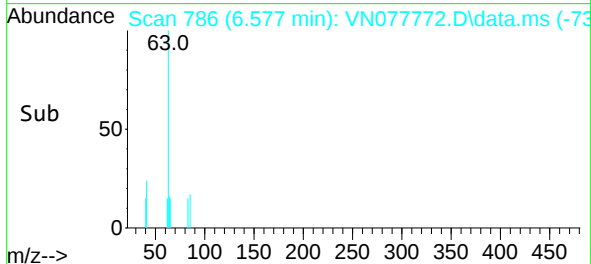
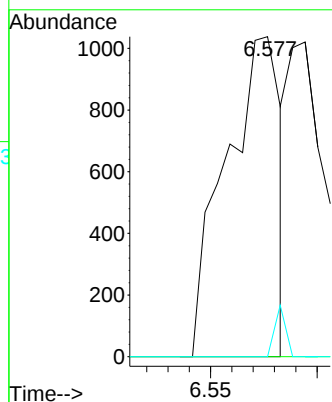
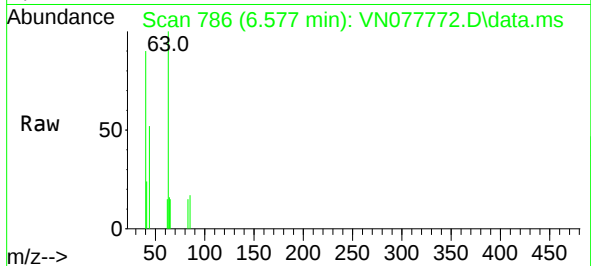




#24
1,1-Dichloroethane
Concen: 0.217 ug/l
RT: 6.577 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

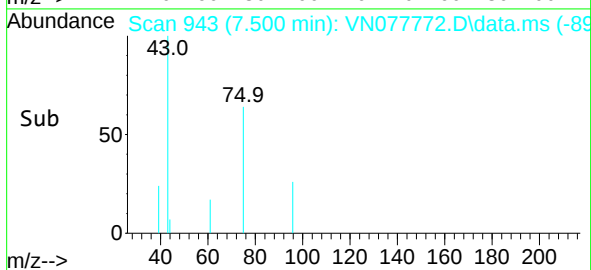
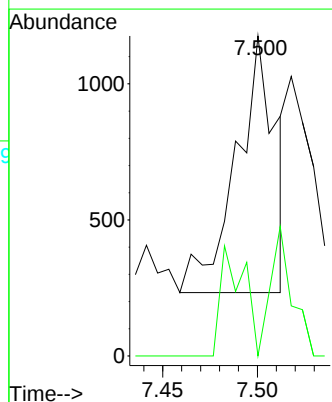
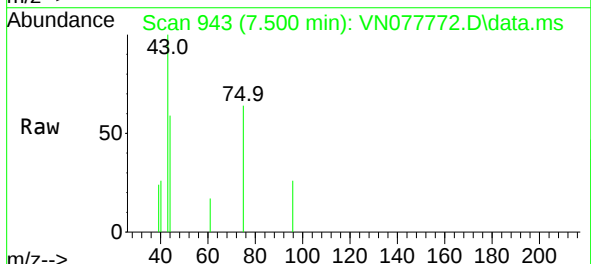
Instrument :
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ClientSampleId :
BP-VPB-RW11-GW-238-240

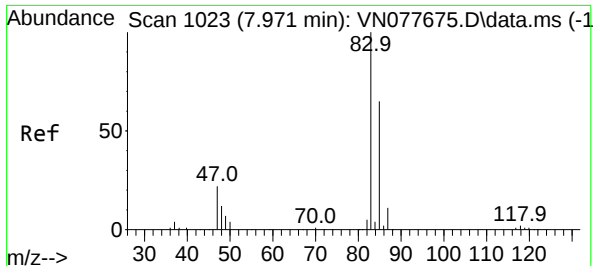
Tgt Ion: 63 Resp: 1856
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 0.0 2.5 7.4#



#25
2-Butanone
Concen: 0.479 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

Tgt Ion: 43 Resp: 1360
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#

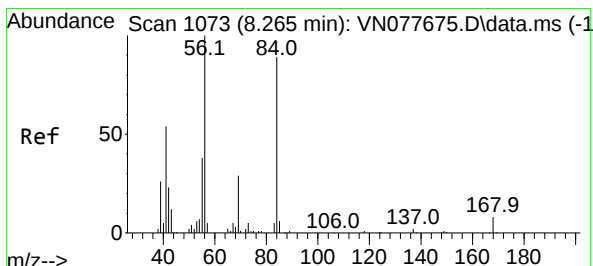
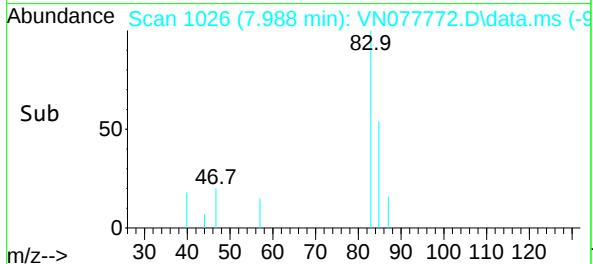
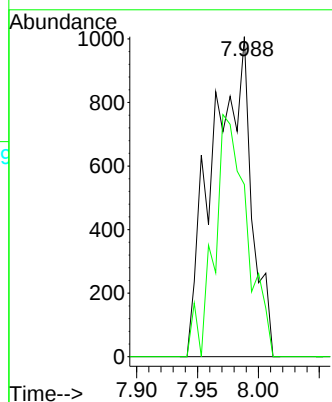
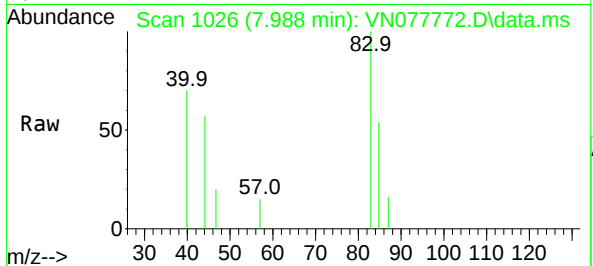




#30
Chloroform
Concen: 0.236 ug/l
RT: 7.988 min Scan# 1026
Delta R.T. 0.017 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

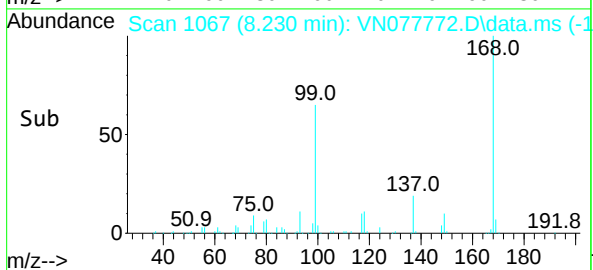
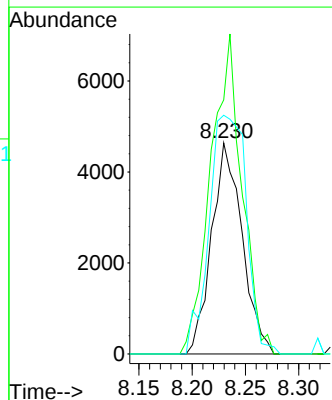
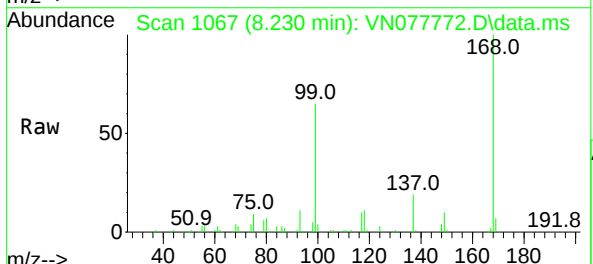
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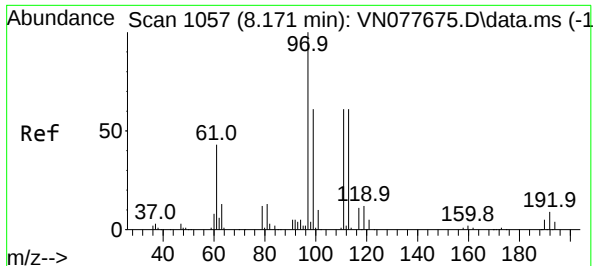
Tgt Ion: 83 Resp: 2221
Ion Ratio Lower Upper
83 100
85 53.8 55.4 83.0#



#31
Cyclohexane
Concen: 1.177 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

Tgt Ion: 56 Resp: 9240
Ion Ratio Lower Upper
56 100
69 120.3 26.8 40.2#
84 113.0 81.8 122.6

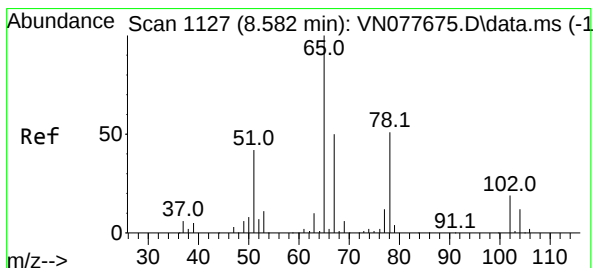
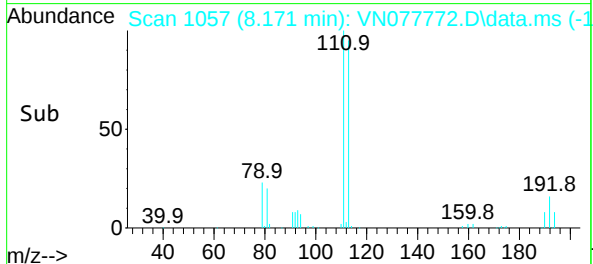
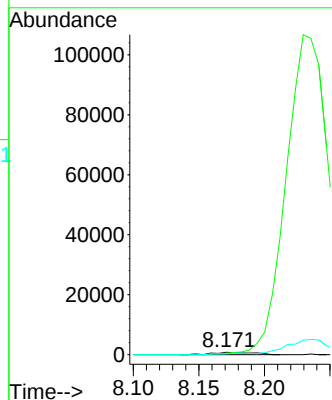
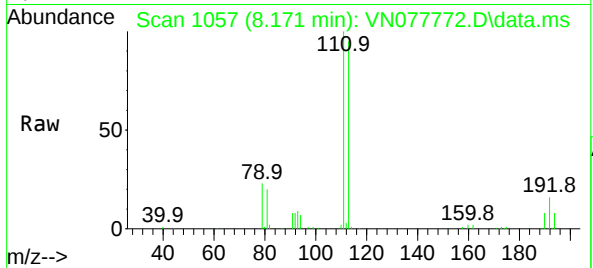




#32
1,1,1-Trichloroethane
Concen: 0.210 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

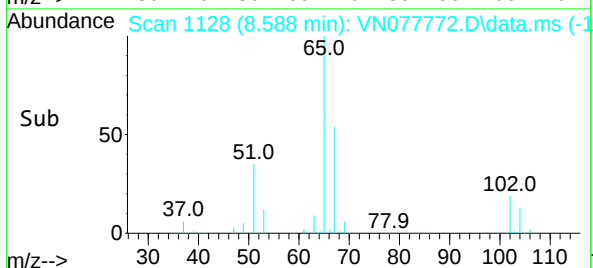
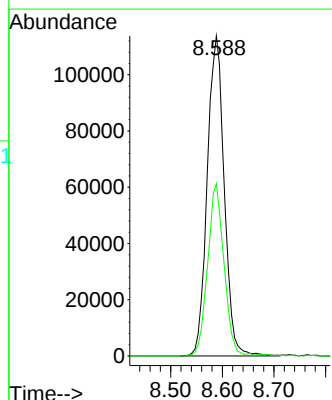
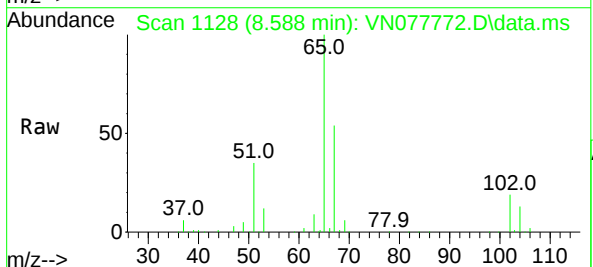
Instrument : MSVOA_N
ClientSampleId : BP-VPB-RW11-GW-238-240

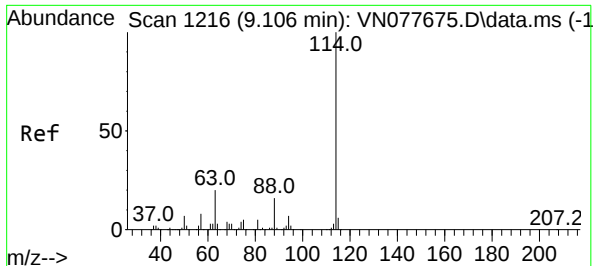
Tgt Ion: 97 Resp: 1679
Ion Ratio Lower Upper
97 100
99 0.0 50.3 75.5#
61 52.3 34.7 52.1#



#33
1,2-Dichloroethane-d4
Concen: 44.962 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

Tgt Ion: 65 Resp: 259643
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN077772.D

Acq: 19 May 2023 18:22

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW11-GW-238-240

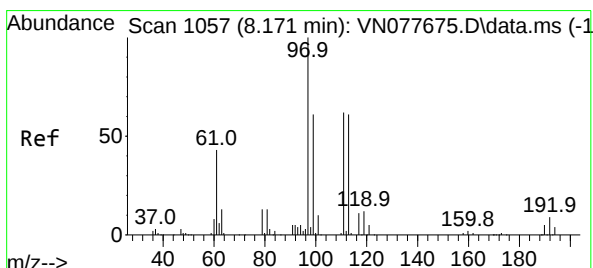
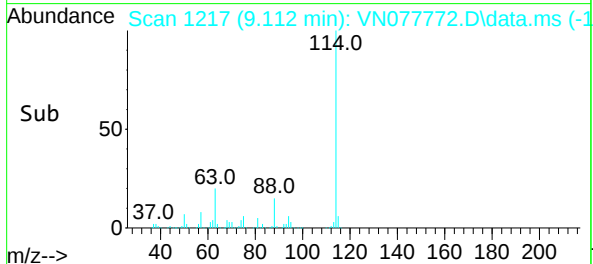
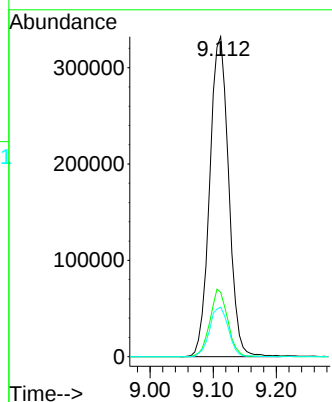
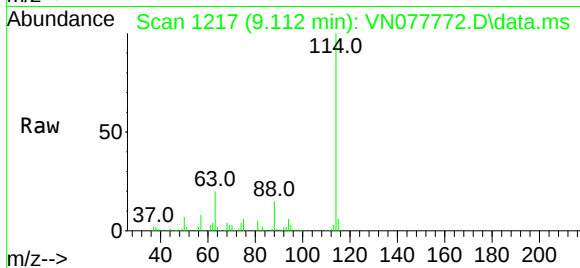
Tgt Ion:114 Resp: 691941

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 15.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.357 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN077772.D

Acq: 19 May 2023 18:22

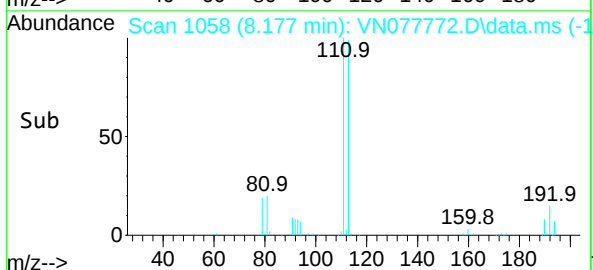
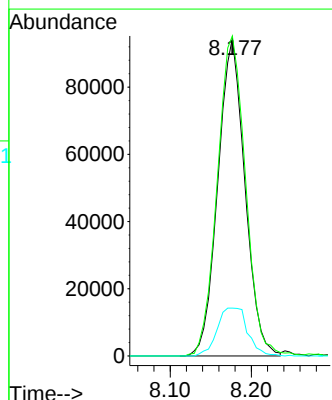
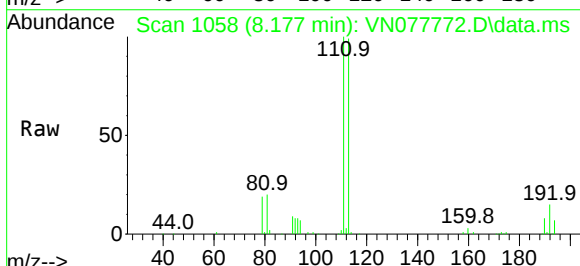
Tgt Ion:113 Resp: 218190

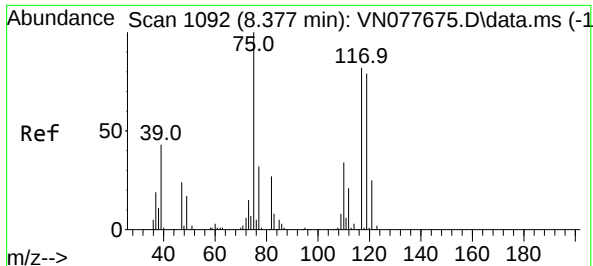
Ion Ratio Lower Upper

113 100

111 105.4 82.6 123.8

192 17.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.858 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN077772.D

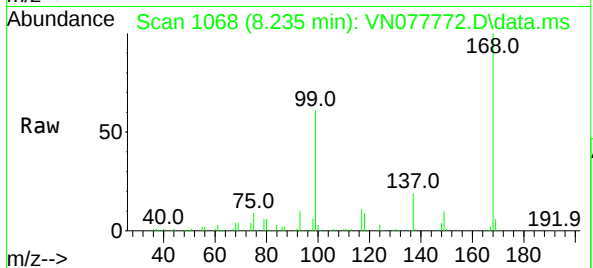
Acq: 19 May 2023 18:22

Instrument :

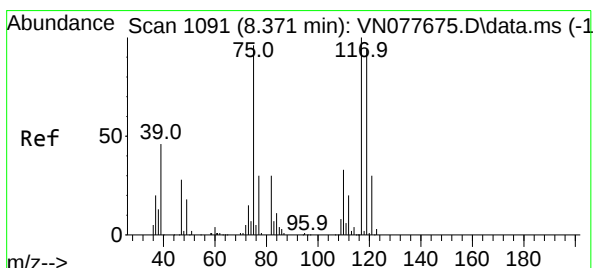
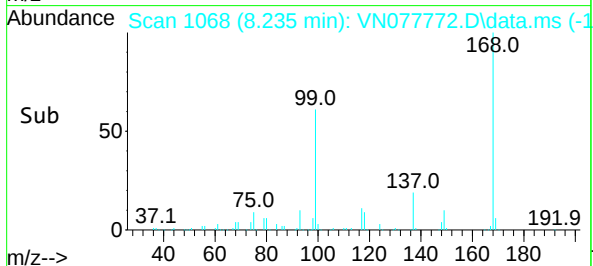
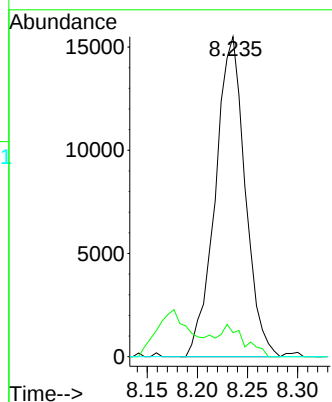
MSVOA_N

ClientSampleId :

BP-VPB-RW11-GW-238-240



Tgt Ion:	75	Resp:	32064
Ion Ratio	100	Lower	Upper
110	7.8	19.1	57.3#
77	0.0	25.0	37.4#



#38

Carbon Tetrachloride

Concen: 6.086 ug/l

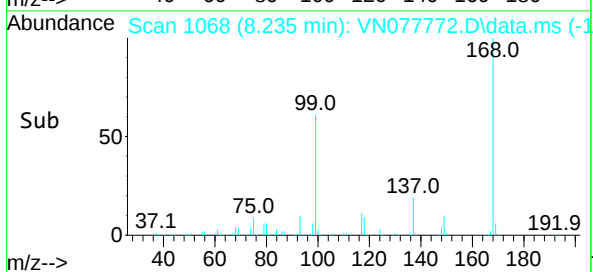
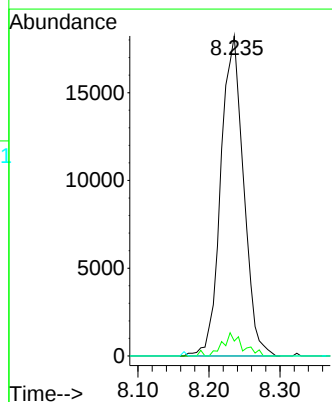
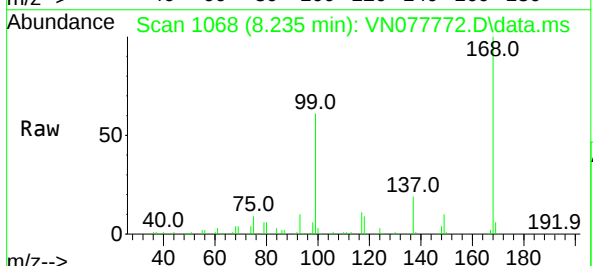
RT: 8.235 min Scan# 1068

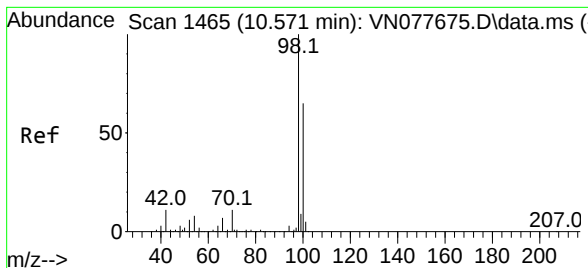
Delta R.T. -0.136 min

Lab File: VN077772.D

Acq: 19 May 2023 18:22

Tgt Ion:	117	Resp:	40560
Ion Ratio	100	Lower	Upper
119	4.6	77.3	115.9#
121	0.0	23.3	34.9#

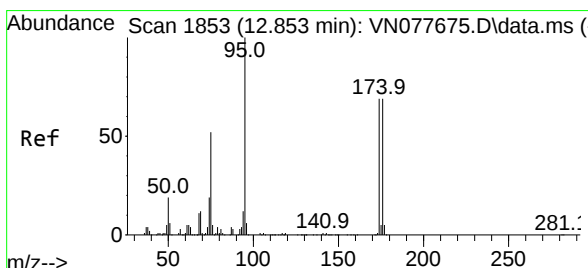
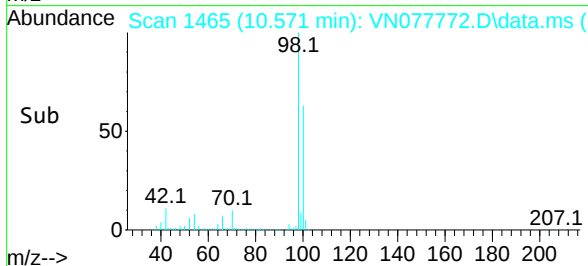
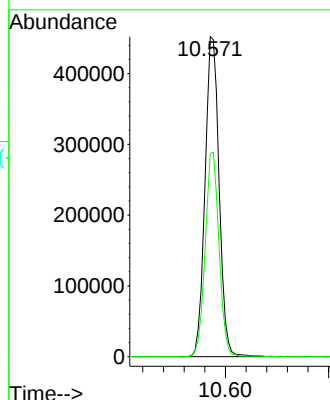
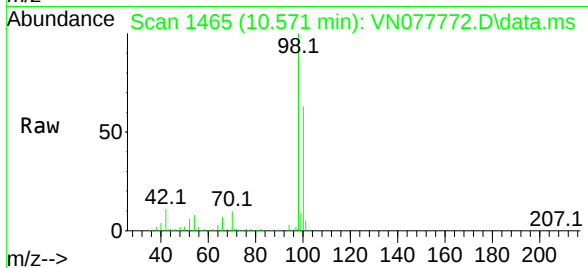




#50
Toluene-d8
Concen: 49.187 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

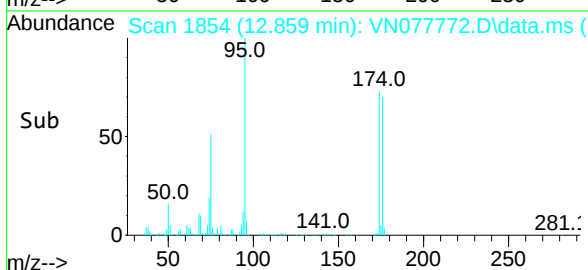
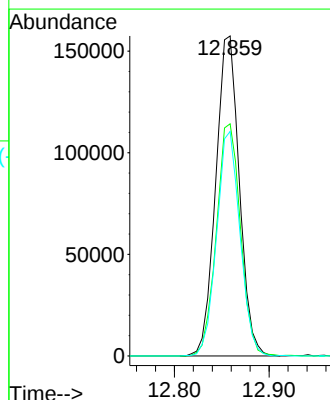
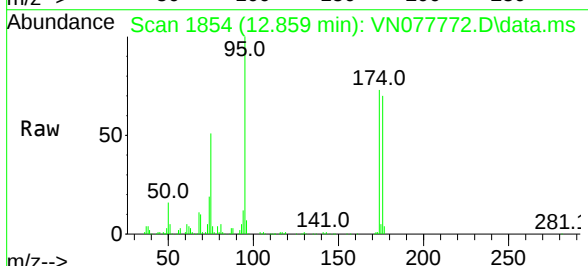
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-238-240

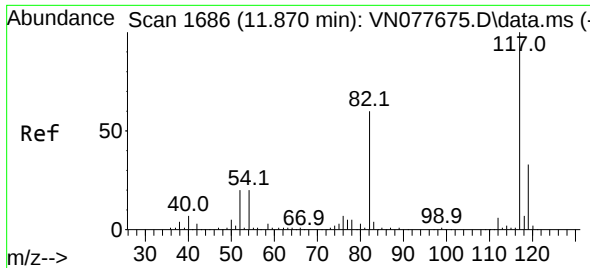
Tgt Ion: 98 Resp: 854242
Ion Ratio Lower Upper
98 100
100 62.8 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 44.451 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

Tgt Ion: 95 Resp: 272650
Ion Ratio Lower Upper
95 100
174 74.0 0.0 143.8
176 69.3 0.0 135.8

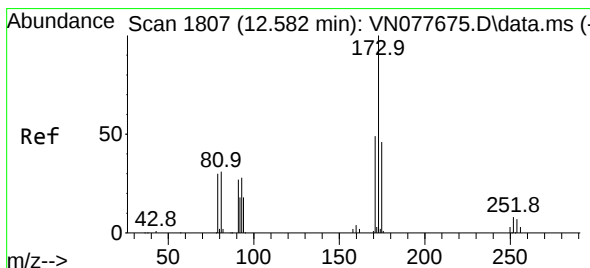
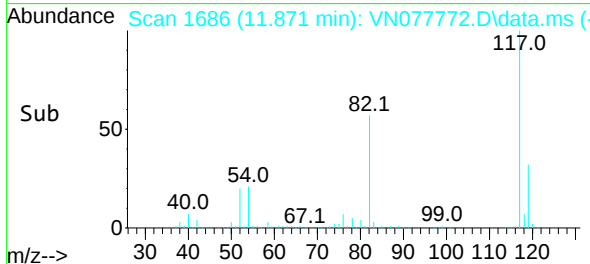
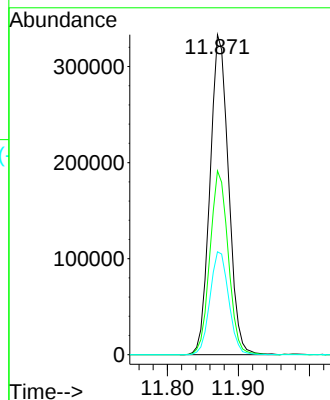
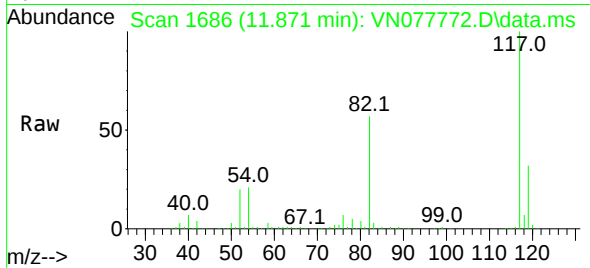




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.001 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

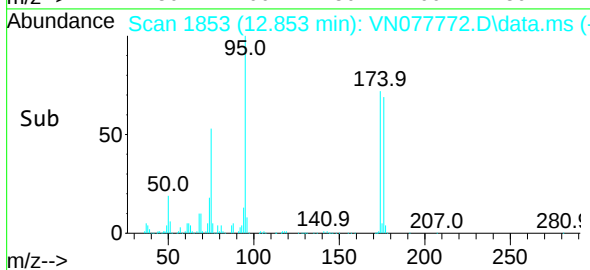
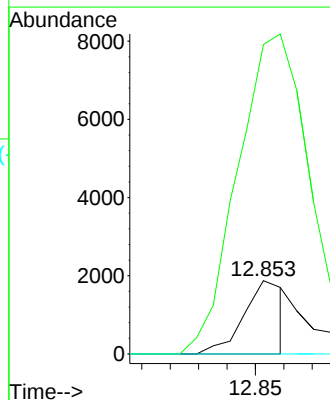
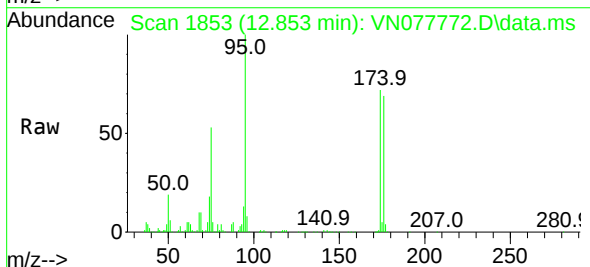
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW11-GW-238-240

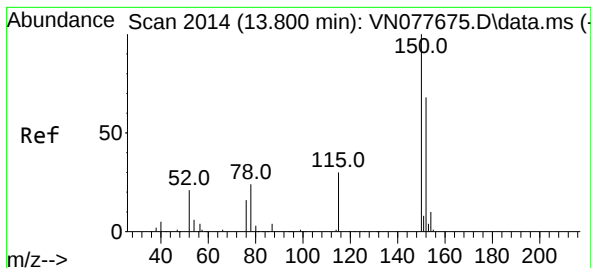
Tgt Ion:117 Resp: 602825
Ion Ratio Lower Upper
117 100
82 57.5 44.0 66.0
119 32.2 25.6 38.4



#71
Bromoform
Concen: 0.616 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN077772.D
Acq: 19 May 2023 18:22

Tgt Ion:173 Resp: 1853
Ion Ratio Lower Upper
173 100
175 0.0 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: VN077772.D

Acq: 19 May 2023 18:22

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW11-GW-238-240

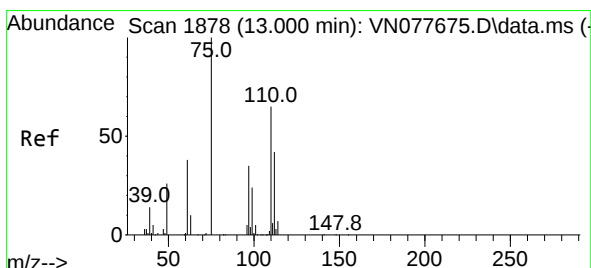
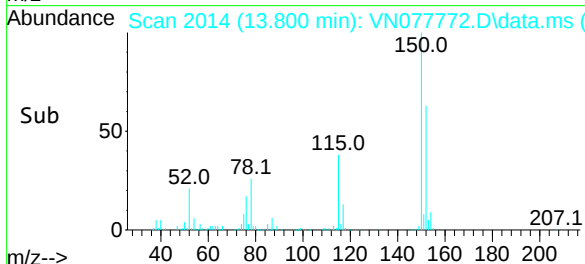
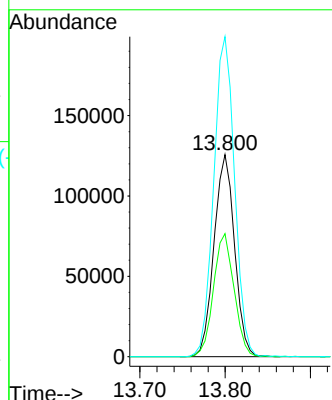
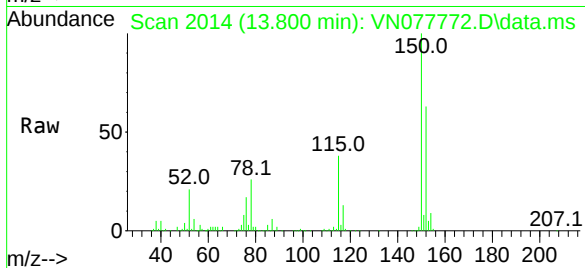
Tgt Ion:152 Resp: 210415

Ion Ratio Lower Upper

152 100

115 61.2 32.3 96.8

150 160.9 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 27.191 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN077772.D

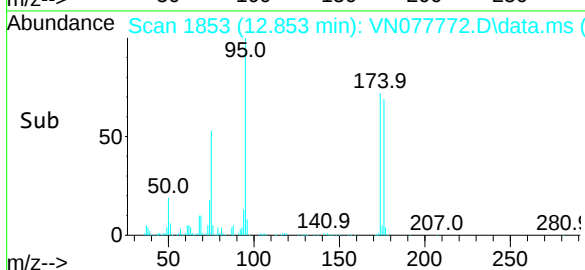
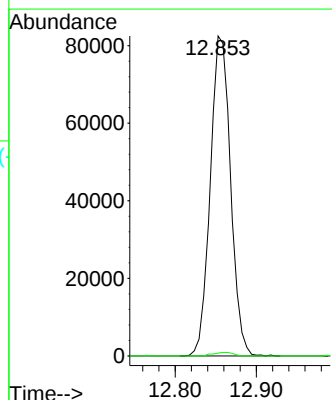
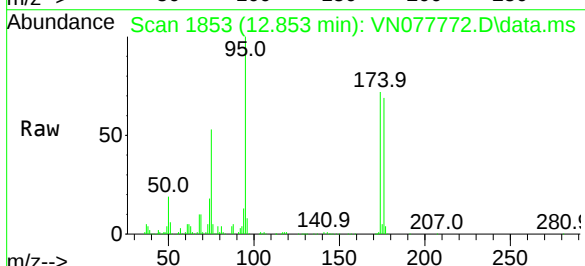
Acq: 19 May 2023 18:22

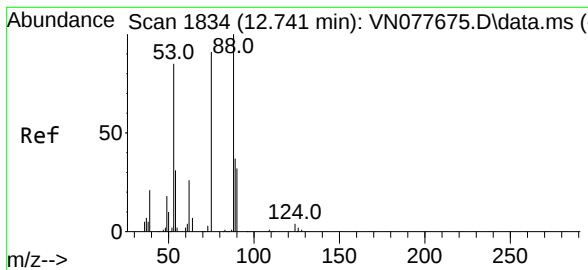
Tgt Ion: 75 Resp: 143285

Ion Ratio Lower Upper

75 100

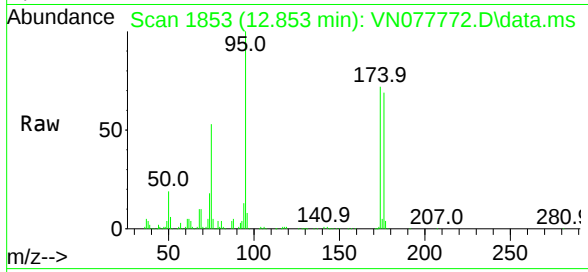
77 1.1 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 86.917 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN077772.D
 Acq: 19 May 2023 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW11-GW-238-240



Tgt Ion: 75 Resp: 143285
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

