

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071323\
 Data File : VN078499.D
 Acq On : 13 Jul 2023 15:24
 Operator : JC\MD
 Sample : 03606-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWBR-04-293-308-071223-FD

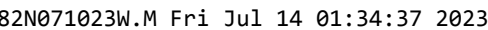
Quant Time: Jul 14 01:34:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

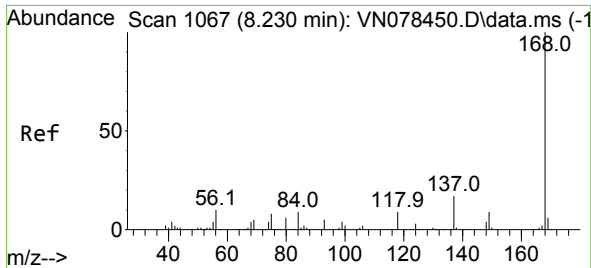
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	409630	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	732482	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.876	117	683322	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	237394	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	270139	49.192	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.380%		
35) Dibromofluoromethane	8.177	113	275258	55.358	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	110.720%		
50) Toluene-d8	10.576	98	853749	45.451	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.900%		
62) 4-Bromofluorobenzene	12.853	95	298406	51.575	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.160%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	2299	0.421	ug/l	99
5) Bromomethane	2.942	94	309	Below Cal	#	4
6) Chloroethane	3.159	64	725	Below Cal	#	43
12) 1,1-Dichloroethene	4.353	96	25830	5.976	ug/l	90
13) Acrolein	4.200	56	181	0.217	ug/l	# 70
16) Acetone	4.447	43	21581	12.616	ug/l	96
18) Methyl Acetate	5.065	43	2191	0.303	ug/l	# 46
20) Methylene Chloride	5.277	84	1713	Below Cal	#	84
24) 1,1-Dichloroethane	6.600	63	10371	1.164	ug/l	# 81
25) 2-Butanone	7.494	43	3009	1.117	ug/l	# 85
27) cis-1,2-Dichloroethene	7.500	96	55354	9.824	ug/l	96
31) Cyclohexane	8.235	56	9301	1.253	ug/l	# 34
36) 1,1-Dichloropropene	8.235	75	32464	4.522	ug/l	# 49
38) Carbon Tetrachloride	8.241	117	42495	5.446	ug/l	# 16
42) 1,2-Dichloroethane	8.682	62	7793	1.077	ug/l	86
43) Isopropyl Acetate	8.747	43	2677	0.272	ug/l	# 49
44) Trichloroethene	9.359	130	42299	7.379	ug/l	95
49) 1,4-Dioxane	9.718	88	1554	15.609	ug/l	# 55
51) 4-Methyl-2-Pentanone	10.459	43	1920	0.328	ug/l	# 79
52) Toluene	10.635	92	767708	58.236	ug/l	95
53) t-1,3-Dichloropropene	10.635	75	10065	1.293	ug/l	# 1
71) Bromoform	12.853	173	1673	0.420	ug/l	# 28
75) 1,1,2,2-Tetrachloroethane	12.947	83	90	Below Cal	#	60
76) 1,2,3-Trichloropropane	12.859	75	157589	27.464	ug/l	# 1
77) Bromobenzene	12.870	156	63	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.859	75	157589	72.169	ug/l	# 15
90) Hexachloroethane	14.576	117	55	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.735	75	64	Below Cal	#	4

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

Quant Time: Jul 14 01:34:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

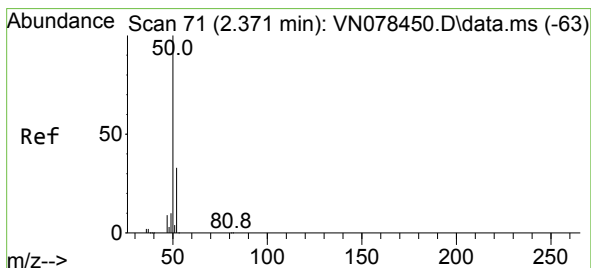
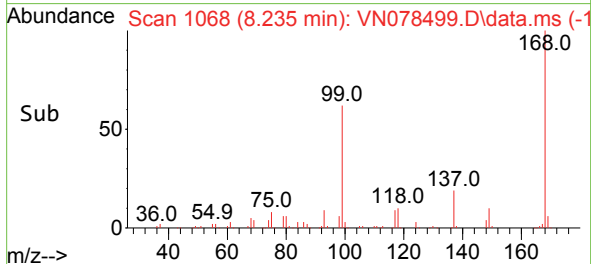
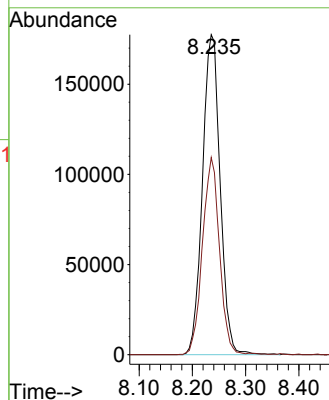
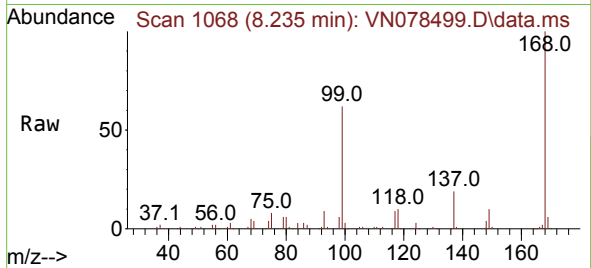




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1067
Delta R.T. 0.005 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

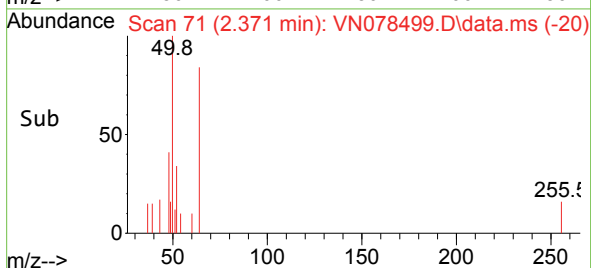
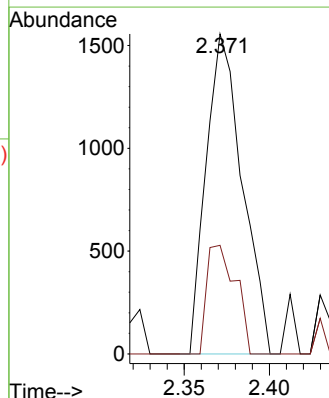
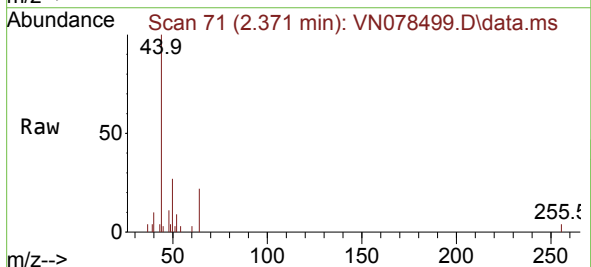
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223-FD

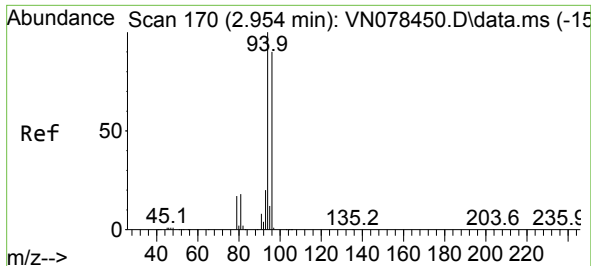
Tgt Ion:168 Resp: 409630
Ion Ratio Lower Upper
168 100
99 61.5 53.0 79.6



#3
Chloromethane
Concen: 0.421 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Tgt Ion: 50 Resp: 2299
Ion Ratio Lower Upper
50 100
52 33.9 26.5 39.7

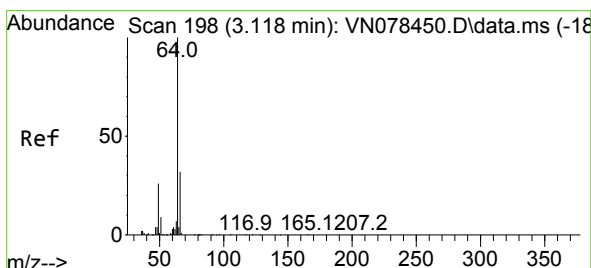
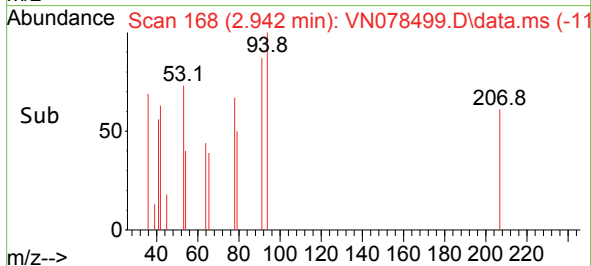
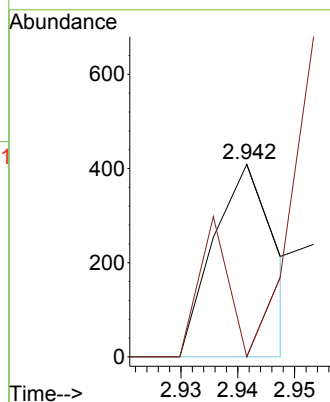
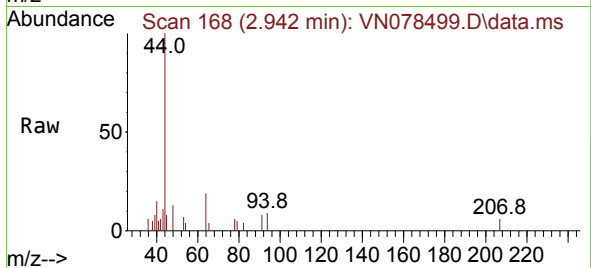




#5
Bromomethane
Concen: Below Cal
RT: 2.942 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

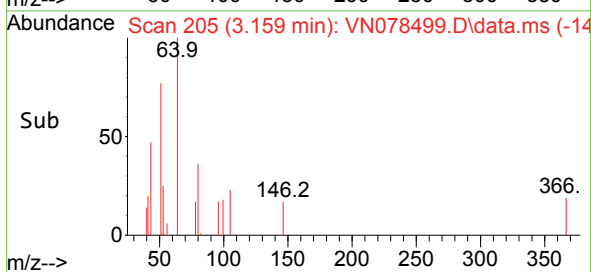
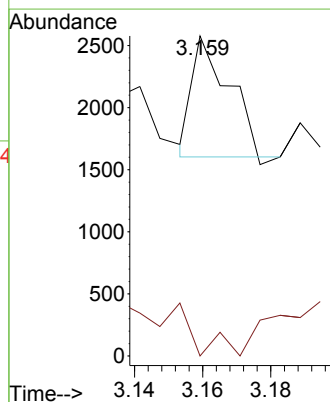
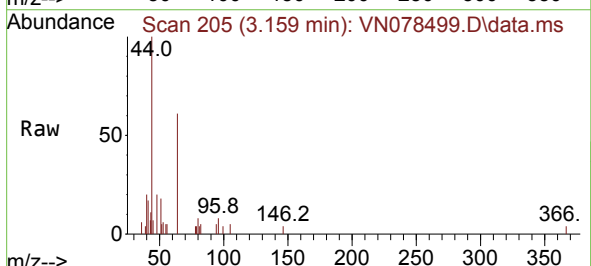
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223-FD

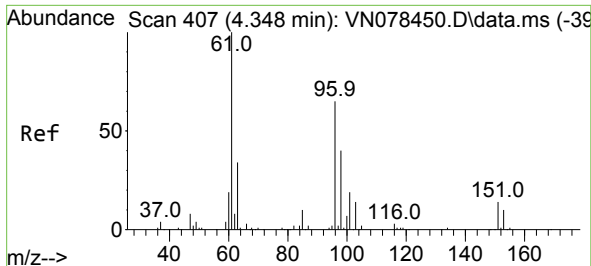
Tgt Ion: 94 Resp: 309
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.159 min Scan# 205
Delta R.T. 0.041 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Tgt Ion: 64 Resp: 725
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#12

1,1-Dichloroethene

Concen: 5.976 ug/l

RT: 4.353 min Scan# 407

Delta R.T. 0.005 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223-FD

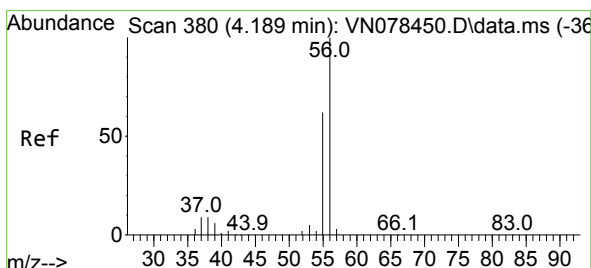
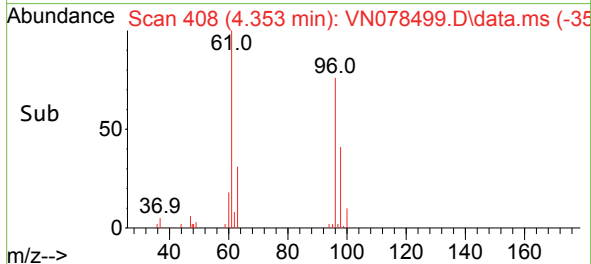
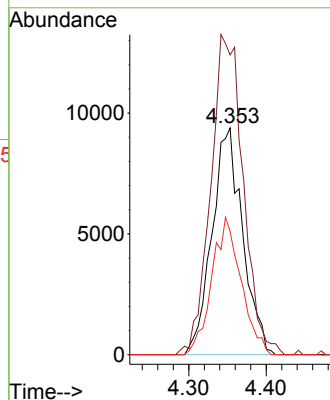
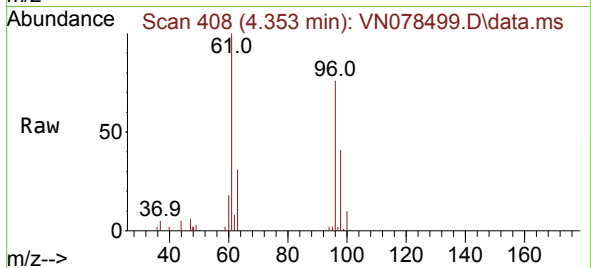
Tgt Ion: 96 Resp: 25830

Ion Ratio Lower Upper

96 100

61 130.3 112.7 169.1

98 54.3 51.2 76.8



#13

Acrolein

Concen: 0.217 ug/l

RT: 4.200 min Scan# 382

Delta R.T. 0.011 min

Lab File: VN078499.D

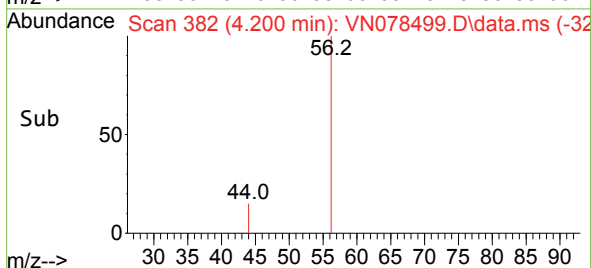
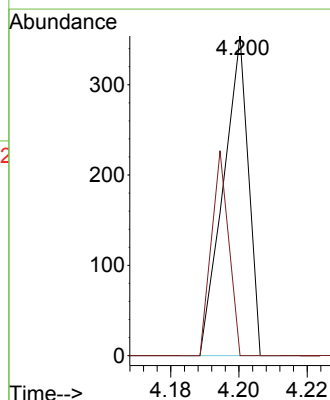
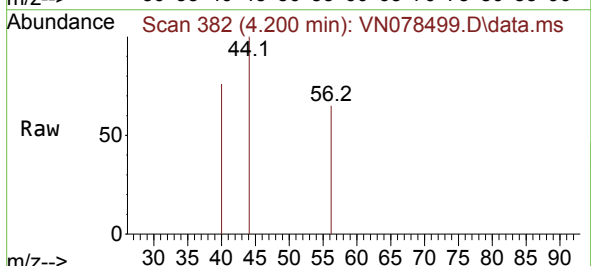
Acq: 13 Jul 2023 15:24

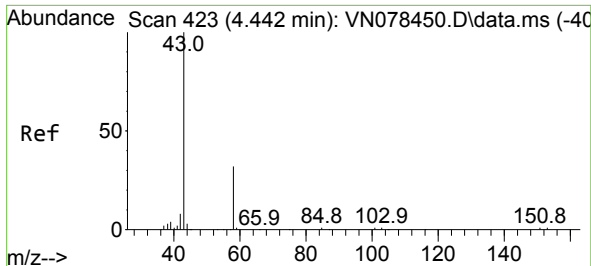
Tgt Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 44.2 54.5 81.7#

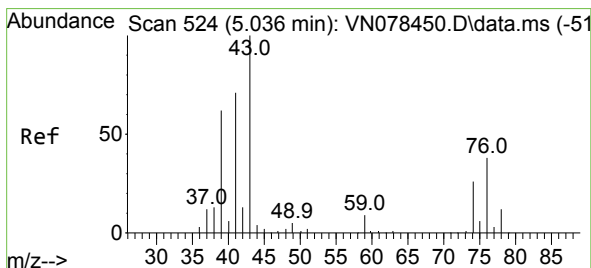
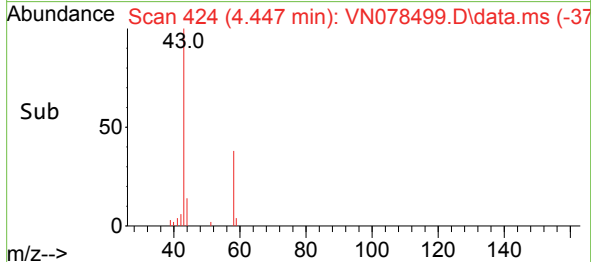
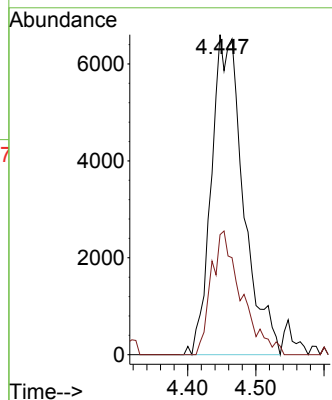
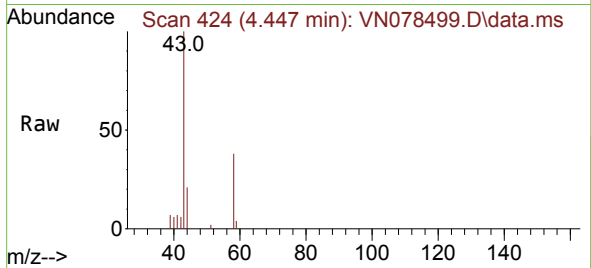




#16
Acetone
Concen: 12.616 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

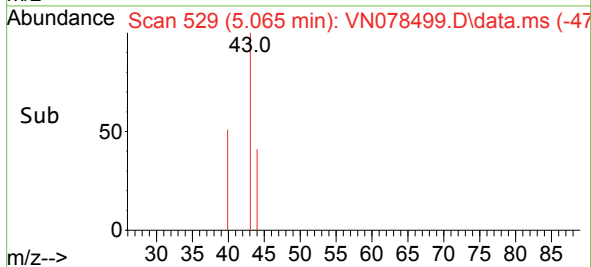
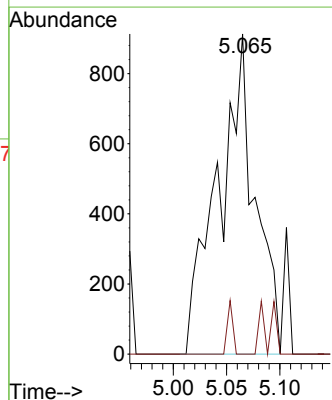
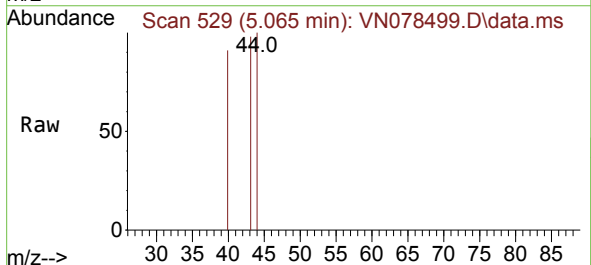
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223-FD

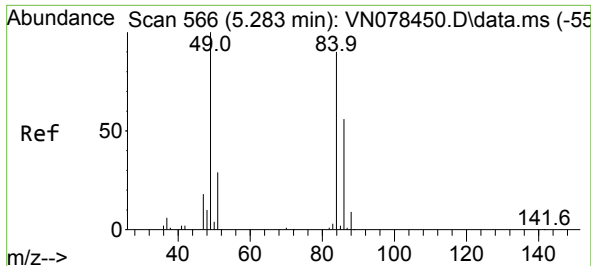
Tgt Ion: 43 Resp: 21581
Ion Ratio Lower Upper
43 100
58 37.5 28.0 42.0



#18
Methyl Acetate
Concen: 0.303 ug/l
RT: 5.065 min Scan# 529
Delta R.T. 0.029 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

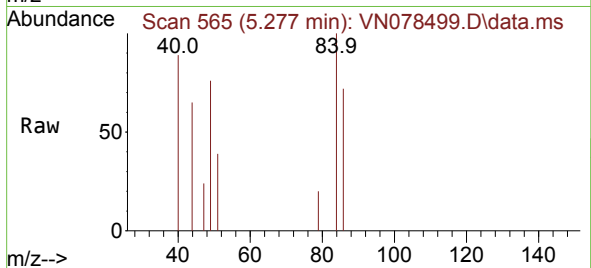
Tgt Ion: 43 Resp: 2191
Ion Ratio Lower Upper
43 100
74 2.5 26.2 39.4#





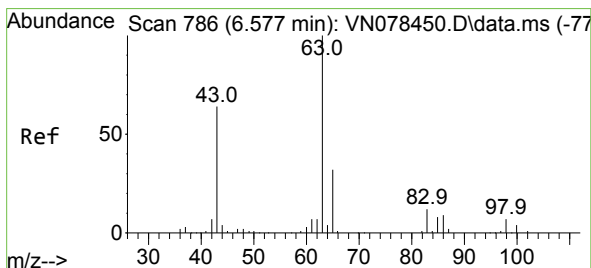
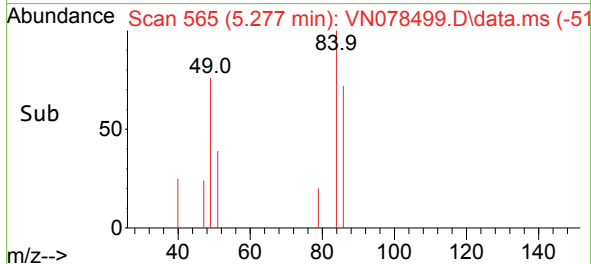
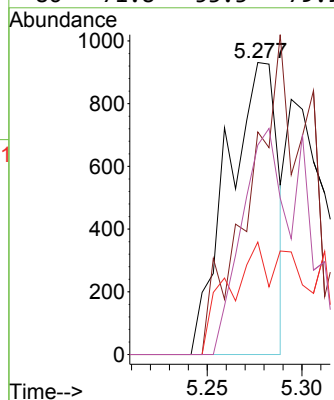
#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 511
Delta R.T. -0.006 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223-FD



Tgt Ion: 84 Resp: 1713

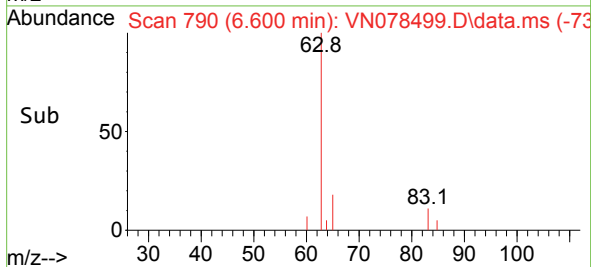
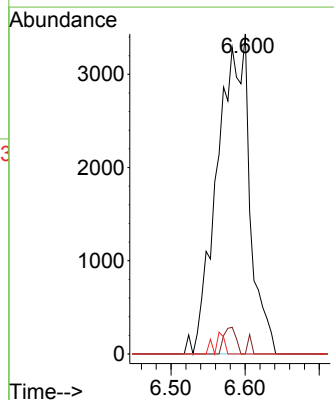
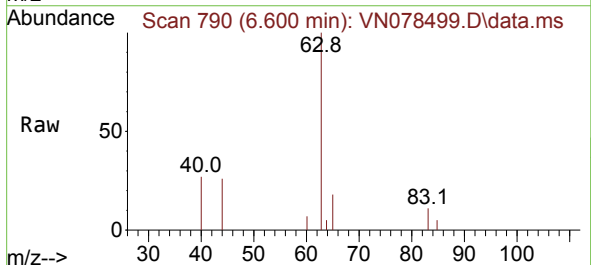
Ion	Ratio	Lower	Upper
84	100		
49	76.3	79.7	119.5#
51	38.6	25.2	37.8#
86	71.8	53.3	79.9

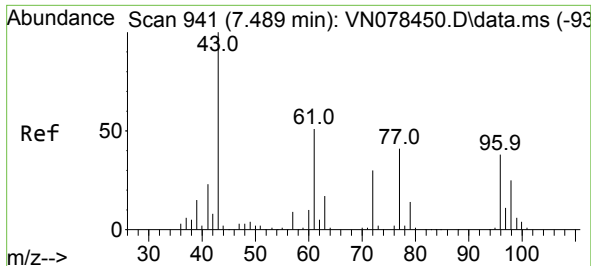


#24
1,1-Dichloroethane
Concen: 1.164 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.023 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Tgt Ion: 63 Resp: 10371

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.9	11.7#
100	0.0	2.5	7.4#

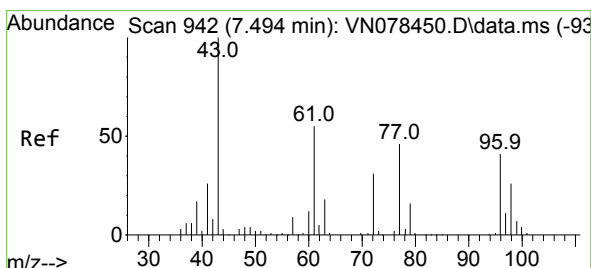
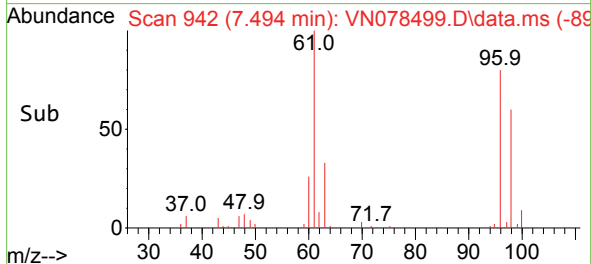
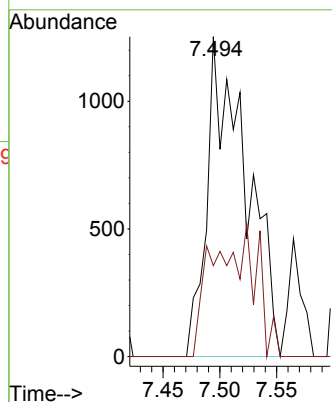
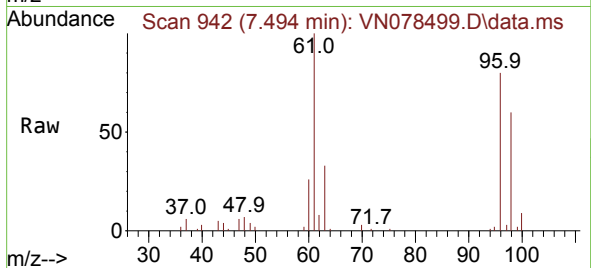




#25
2-Butanone
Concen: 1.117 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.005 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

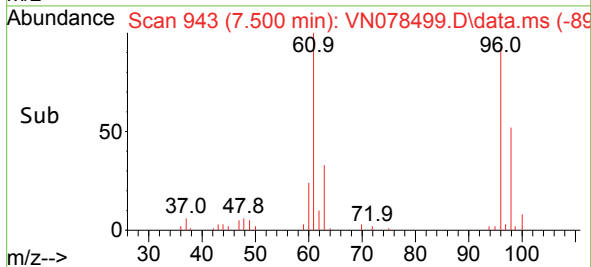
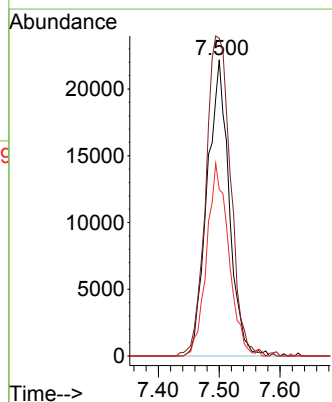
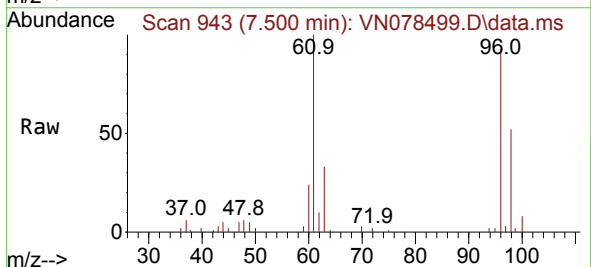
Instrument :
MSVOA_N
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GWRB-04-293-308-071223-FD

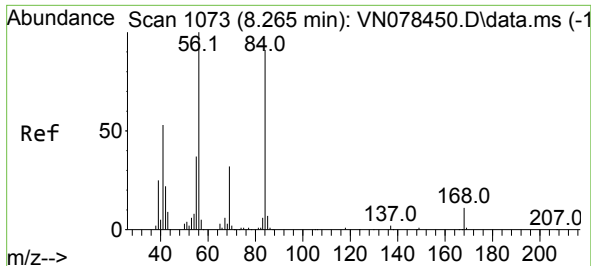
Tgt Ion: 43 Resp: 3009
Ion Ratio Lower Upper
43 100
72 28.4 30.2 45.2#



#27
cis-1,2-Dichloroethene
Concen: 9.824 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Tgt Ion: 96 Resp: 55354
Ion Ratio Lower Upper
96 100
61 122.0 0.0 255.2
98 65.2 0.0 128.8

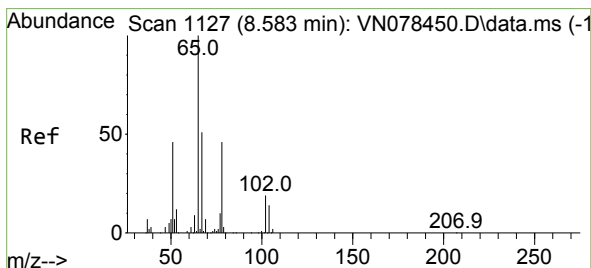
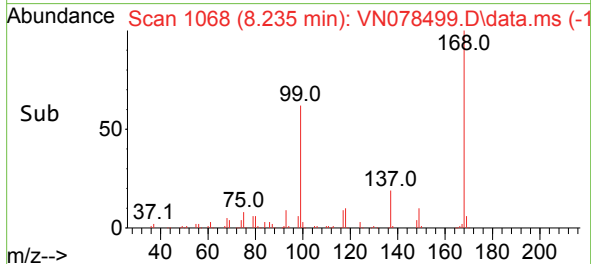
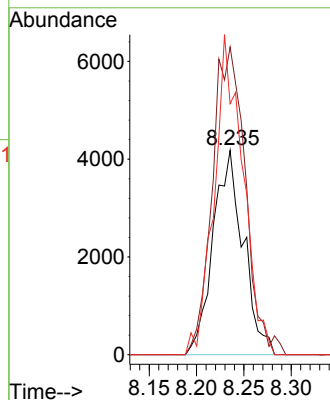
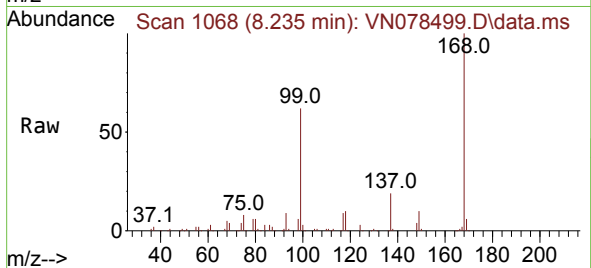




#31
Cyclohexane
Concen: 1.253 ug/l
RT: 8.235 min Scan# 1107
Delta R.T. -0.030 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

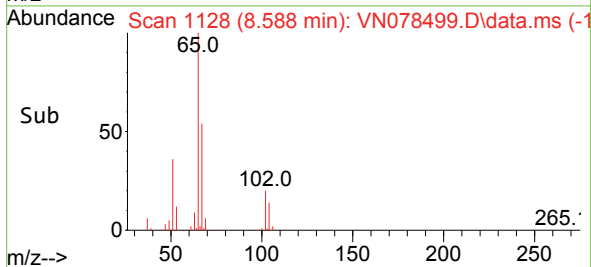
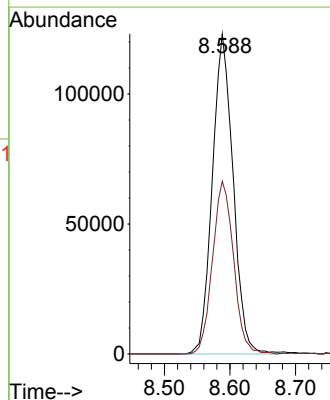
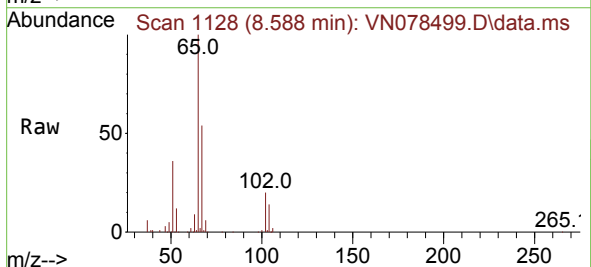
Instrument :
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ClientSampleId :
GWBR-04-293-308-071223-FD

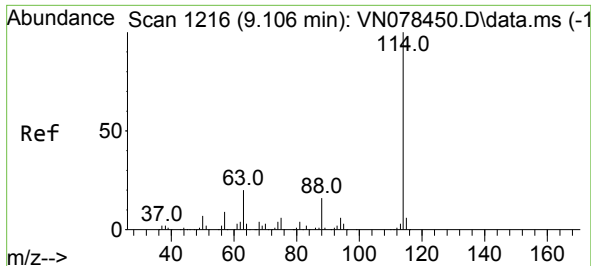
Tgt Ion: 56 Resp: 9301
Ion Ratio Lower Upper
56 100
69 150.5 26.8 40.2#
84 122.9 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 49.192 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Tgt Ion: 65 Resp: 270139
Ion Ratio Lower Upper
65 100
67 54.8 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: VN078499.D

Acq: 13 Jul 2023 15:24

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223-FD

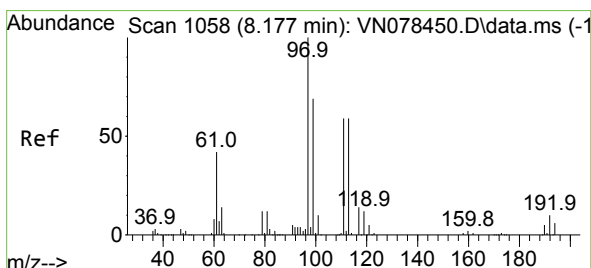
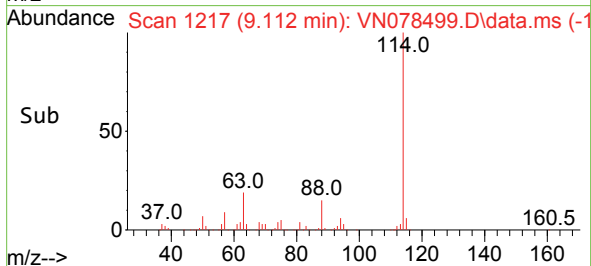
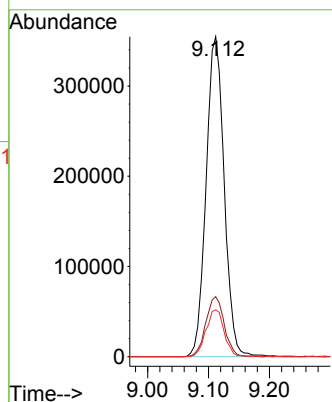
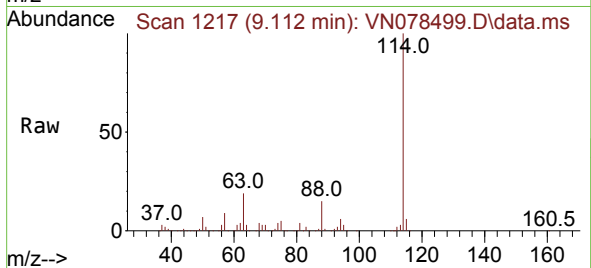
Tgt Ion:114 Resp: 732482

Ion Ratio Lower Upper

114 100

63 18.7 0.0 36.4

88 14.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.358 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

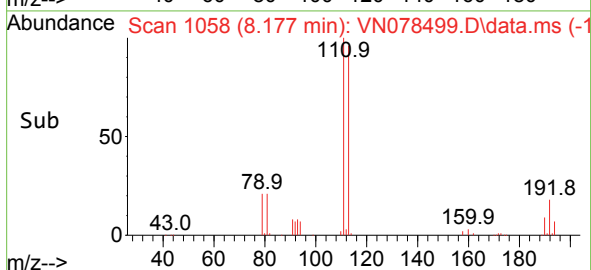
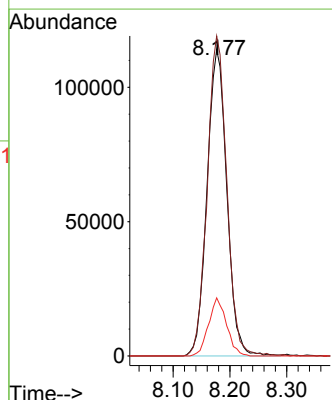
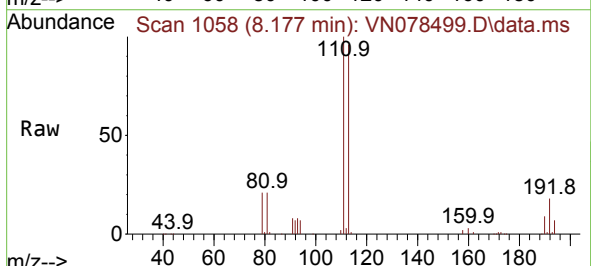
Tgt Ion:113 Resp: 275258

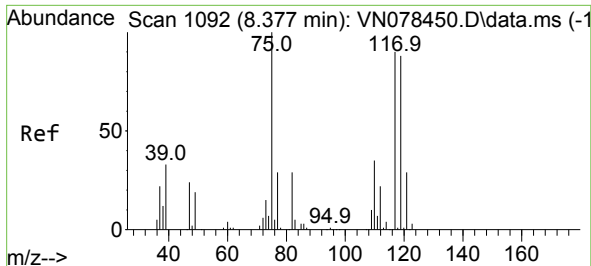
Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

192 17.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.522 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN078499.D

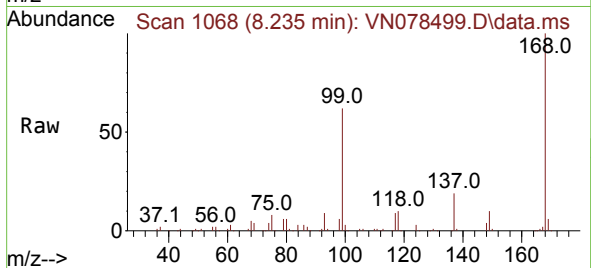
Acq: 13 Jul 2023 15:24

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223-FD



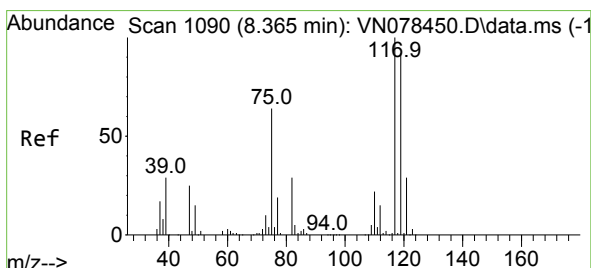
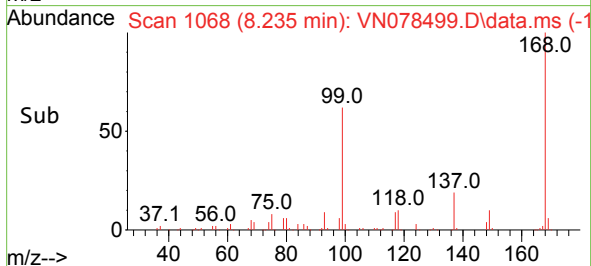
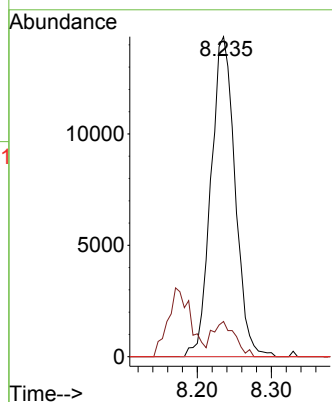
Tgt Ion: 75 Resp: 32464

Ion Ratio Lower Upper

75 100

110 10.3 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.446 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.124 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

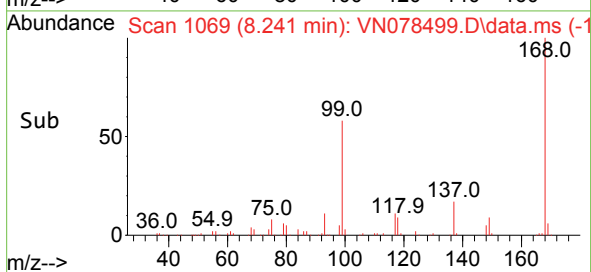
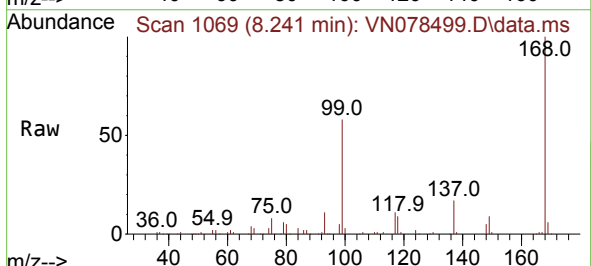
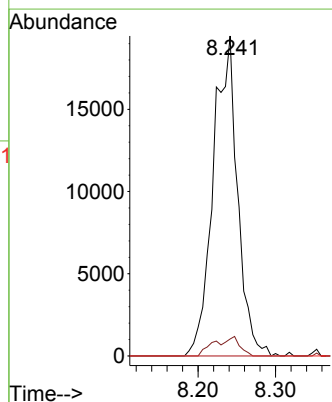
Tgt Ion: 117 Resp: 42495

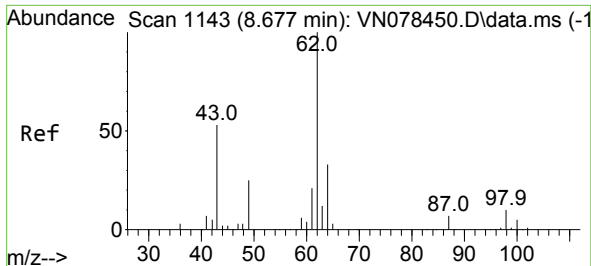
Ion Ratio Lower Upper

117 100

119 5.3 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 1.077 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

Instrument :

MSVOA_N

ClientSampleId :

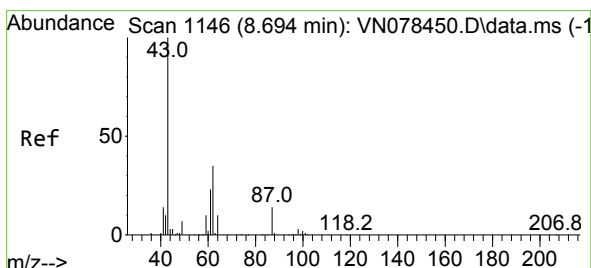
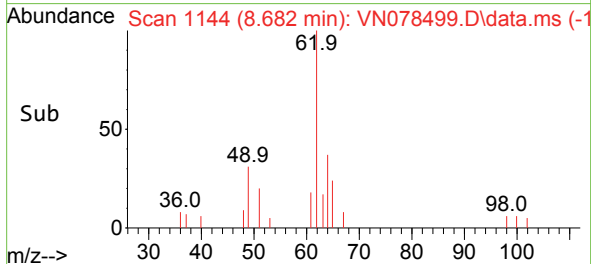
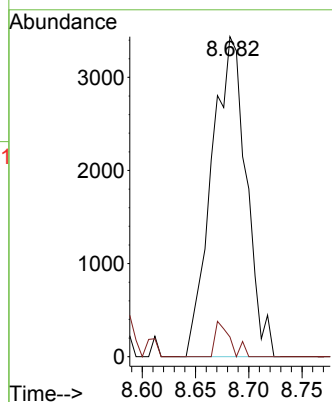
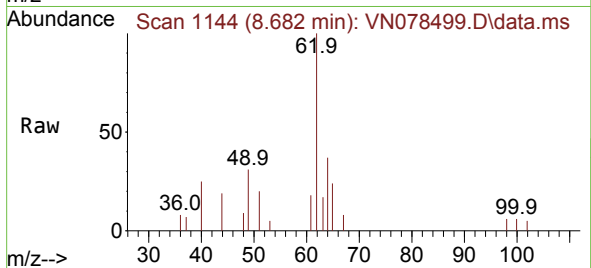
GWBR-04-293-308-071223-FD

Tgt Ion: 62 Resp: 7793

Ion Ratio Lower Upper

62 100

98 4.8 0.0 19.8



#43

Isopropyl Acetate

Concen: 0.272 ug/l

RT: 8.747 min Scan# 1155

Delta R.T. 0.053 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

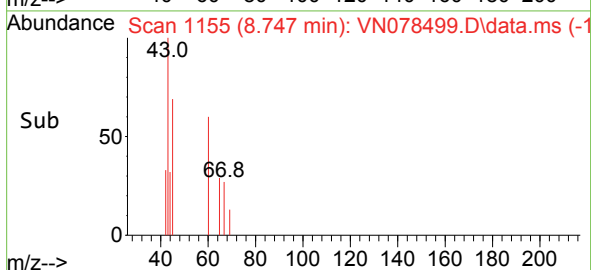
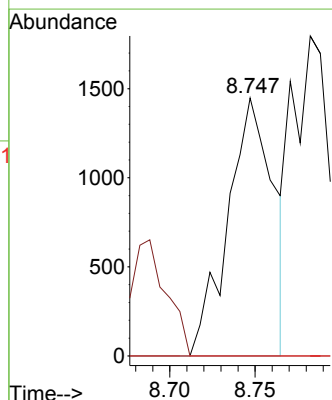
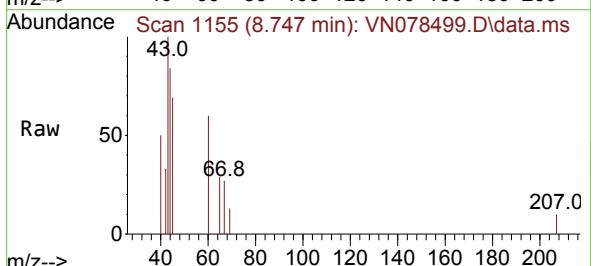
Tgt Ion: 43 Resp: 2677

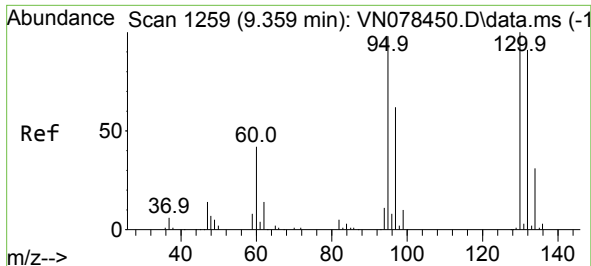
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

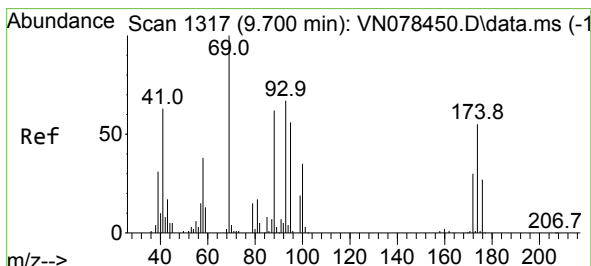
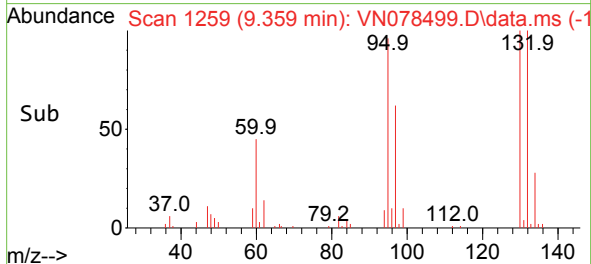
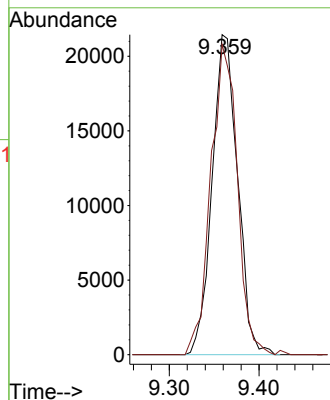
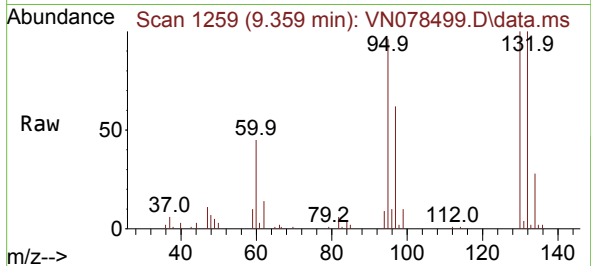




#44
Trichloroethene
Concen: 7.379 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

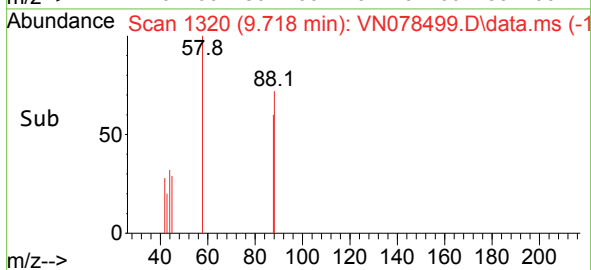
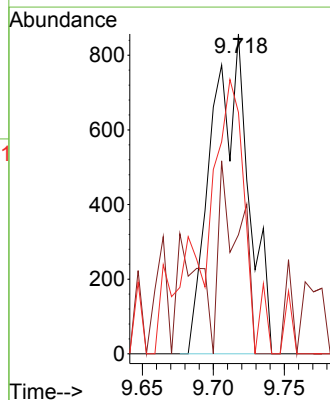
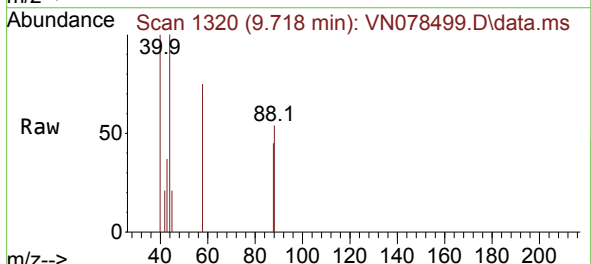
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223-FD

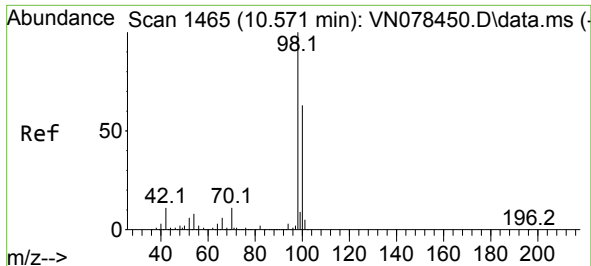
Tgt Ion:130 Resp: 42299
Ion Ratio Lower Upper
130 100
95 96.9 0.0 204.6



#49
1,4-Dioxane
Concen: 15.609 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.018 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Tgt Ion: 88 Resp: 1554
Ion Ratio Lower Upper
88 100
43 34.3 17.0 25.6#
58 97.4 47.0 70.4#

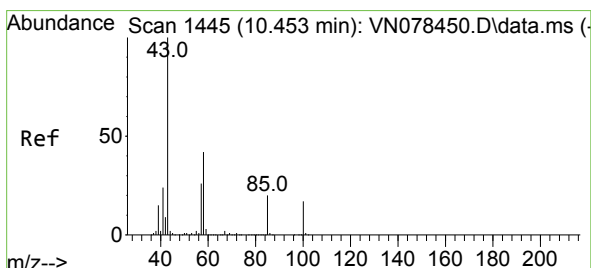
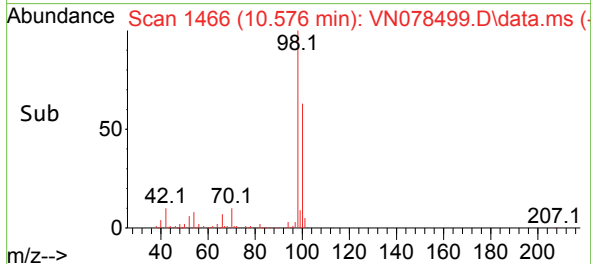
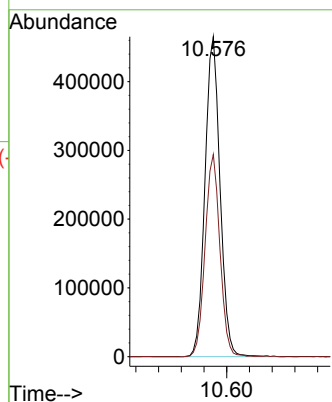
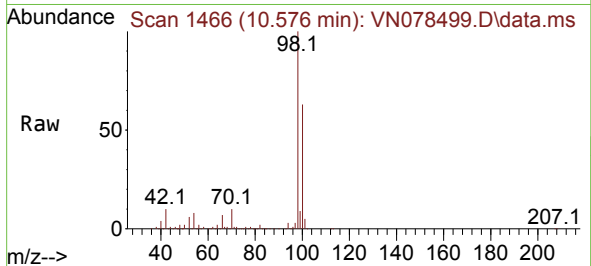




#50
Toluene-d8
Concen: 45.451 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

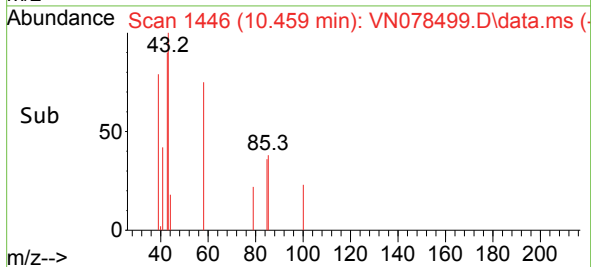
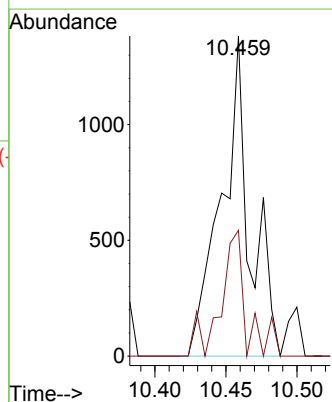
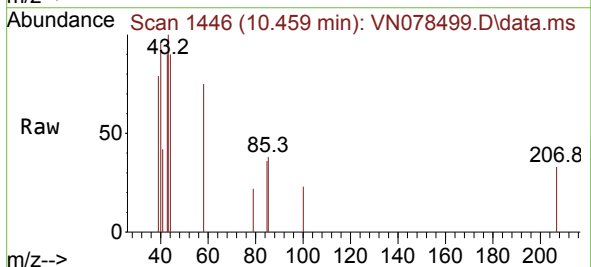
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223-FD

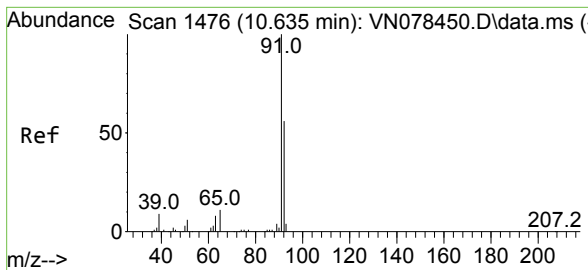
Tgt Ion: 98 Resp: 853749
Ion Ratio Lower Upper
98 100
100 62.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.328 ug/l
RT: 10.459 min Scan# 1446
Delta R.T. 0.006 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Tgt Ion: 43 Resp: 1920
Ion Ratio Lower Upper
43 100
58 31.6 36.6 54.8#





#52

Toluene

Concen: 58.236 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

Instrument :

MSVOA_N

ClientSampleId :

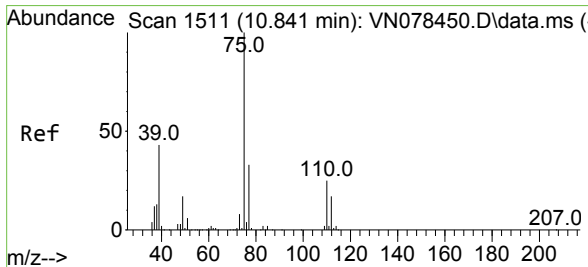
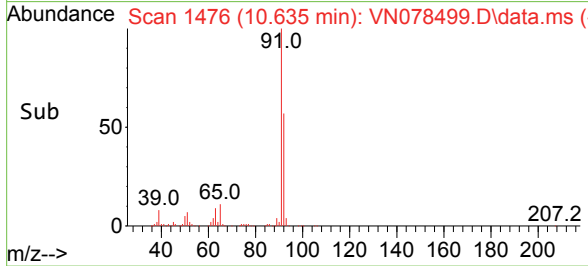
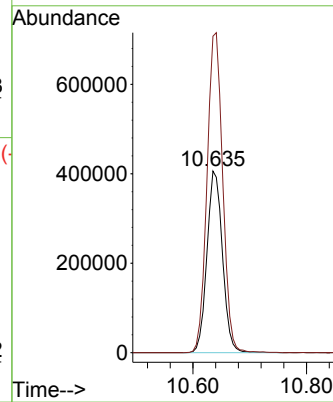
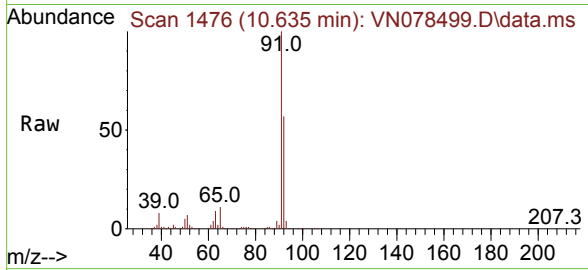
GWBR-04-293-308-071223-FD

Tgt Ion: 92 Resp: 767708

Ion Ratio Lower Upper

92 100

91 178.2 137.4 206.0



#53

t-1,3-Dichloropropene

Concen: 1.293 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.206 min

Lab File: VN078499.D

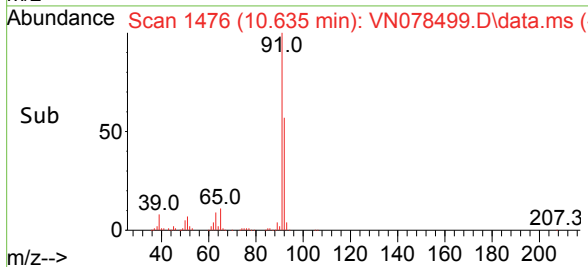
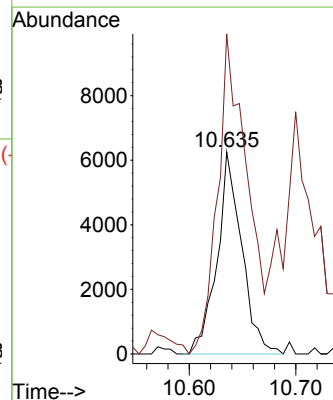
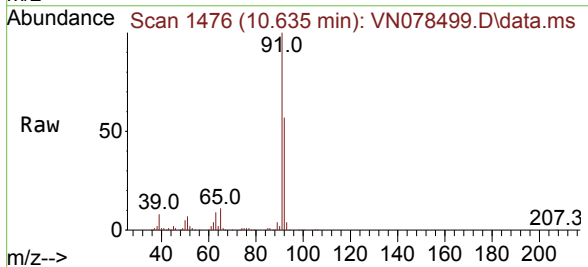
Acq: 13 Jul 2023 15:24

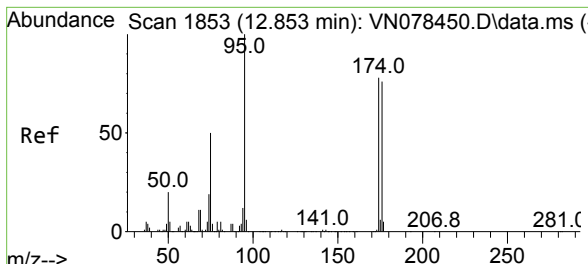
Tgt Ion: 75 Resp: 10065

Ion Ratio Lower Upper

75 100

77 154.0 25.4 38.0#

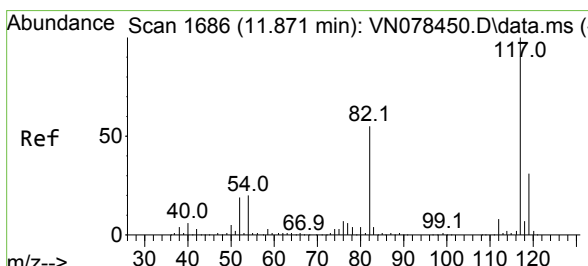
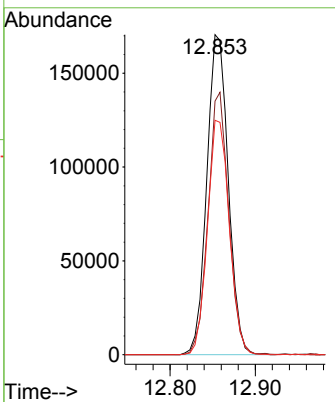
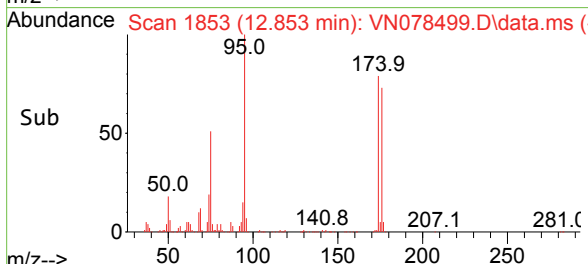
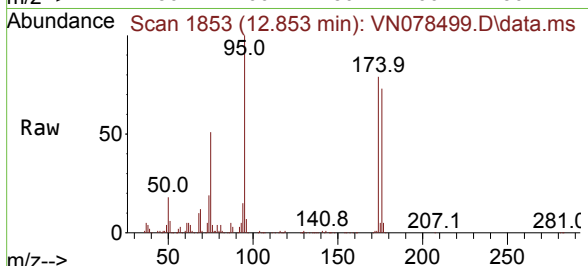




#62
 4-Bromofluorobenzene
 Concen: 51.575 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078499.D
 Acq: 13 Jul 2023 15:24

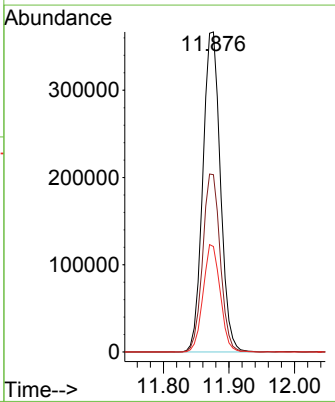
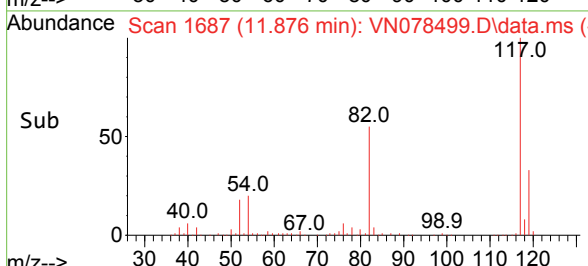
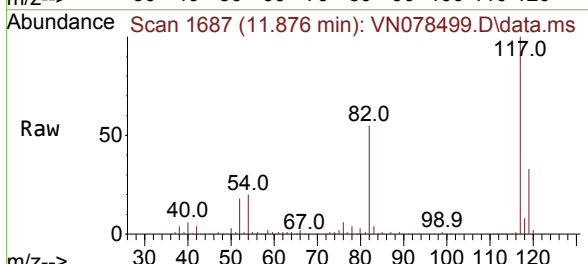
Instrument : MSVOA_N
 ClientSampleId : GWBR-04-293-308-071223-FD

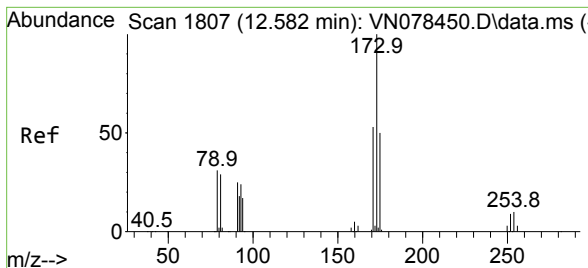
Tgt Ion:	95	Resp:	298406
Ion Ratio	Lower	Upper	
95	100		
174	79.1	0.0	143.8
176	74.4	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.876 min Scan# 1687
 Delta R.T. 0.005 min
 Lab File: VN078499.D
 Acq: 13 Jul 2023 15:24

Tgt Ion:	117	Resp:	683322
Ion Ratio	Lower	Upper	
117	100		
82	55.4	44.0	66.0
119	33.0	25.6	38.4





#71

Bromoform

Concen: 0.420 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223-FD

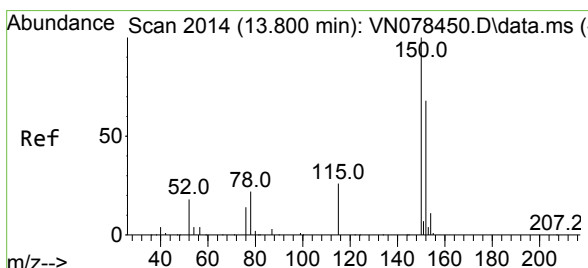
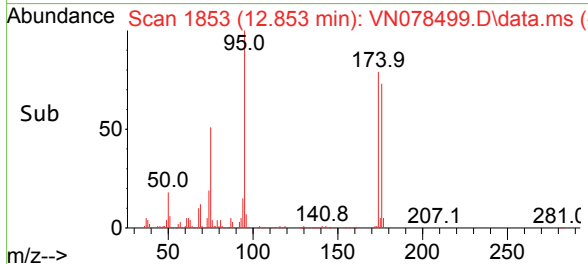
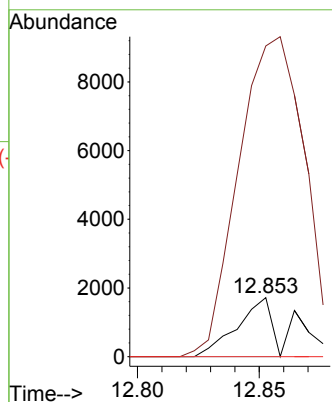
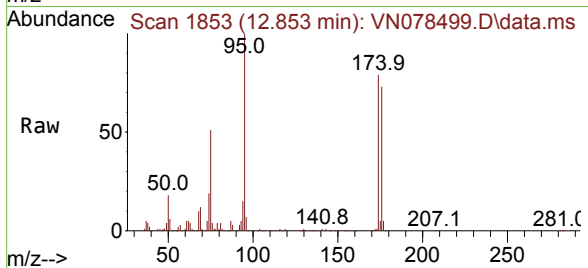
Tgt Ion:173 Resp: 1673

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# 2014

Delta R.T. -0.000 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

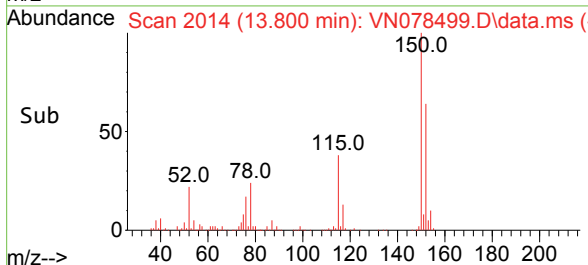
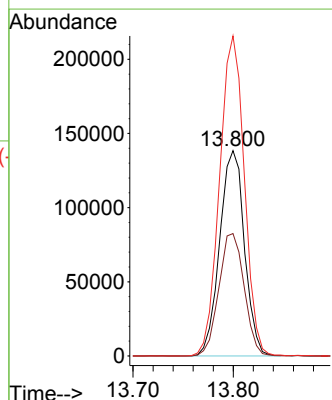
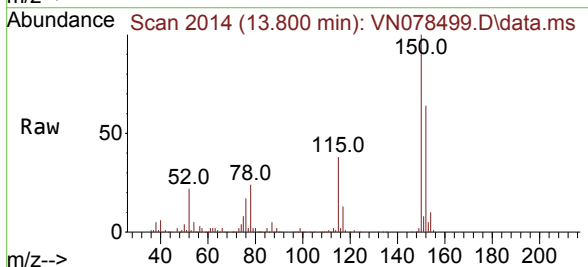
Tgt Ion:152 Resp: 237394

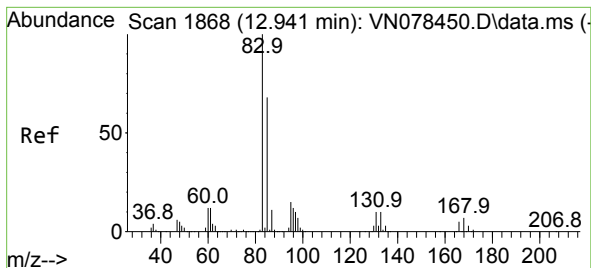
Ion Ratio Lower Upper

152 100

115 60.8 32.3 96.8

150 155.7 0.0 355.8





#75

1,1,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN078499.D

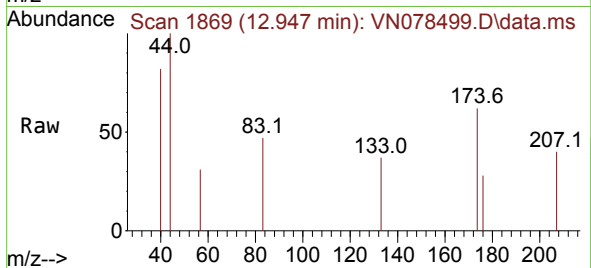
Acq: 13 Jul 2023 15:24

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223-FD



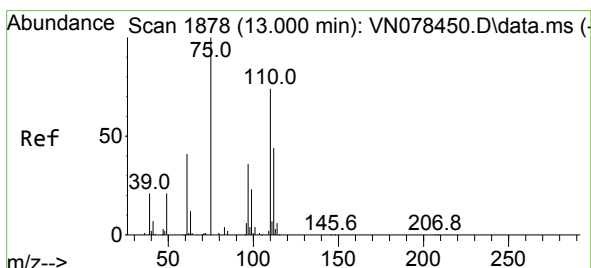
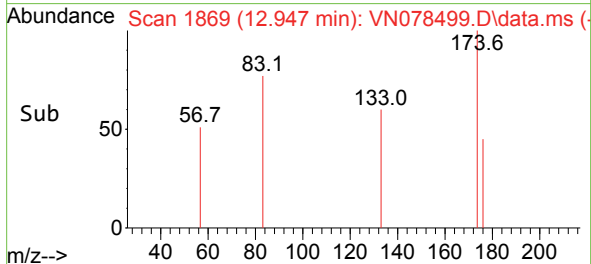
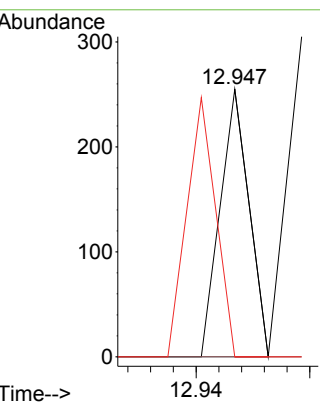
Tgt Ion: 83 Resp: 90

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 96.7 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 27.464 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078499.D

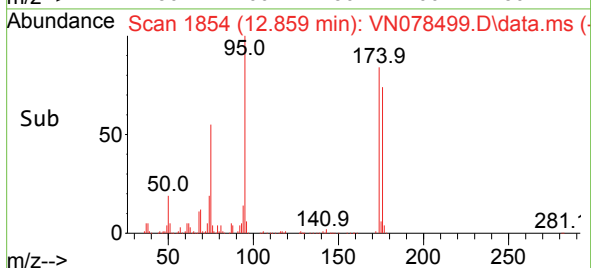
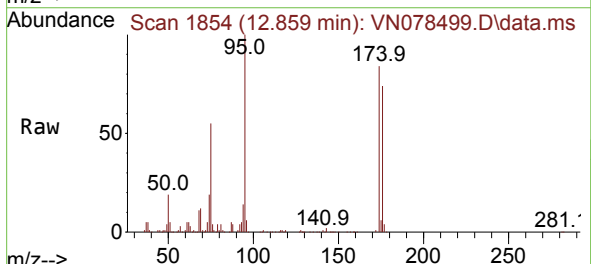
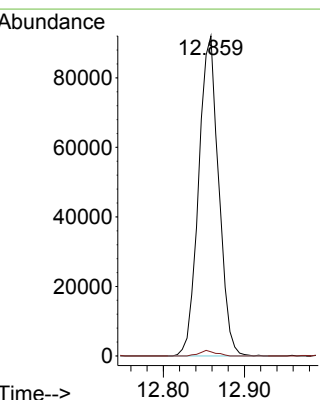
Acq: 13 Jul 2023 15:24

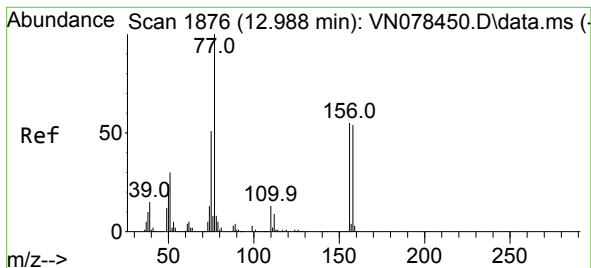
Tgt Ion: 75 Resp: 157589

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#





#77

Bromobenzene

Concen: Below Cal

RT: 12.870 min Scan# 1856

Delta R.T. -0.118 min

Lab File: VN078499.D

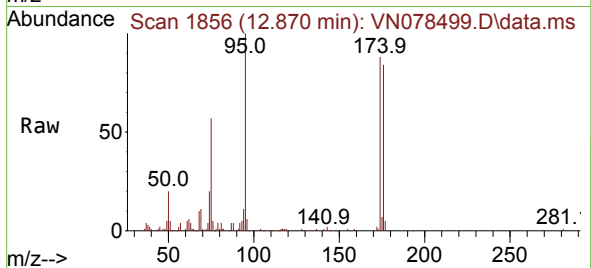
Acq: 13 Jul 2023 15:24

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223-FD



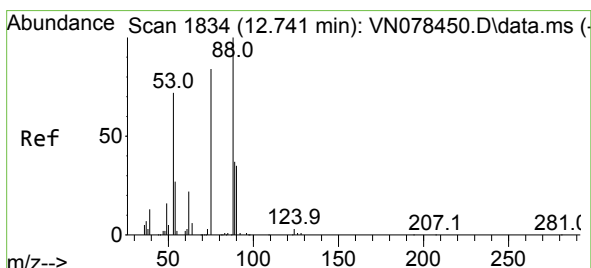
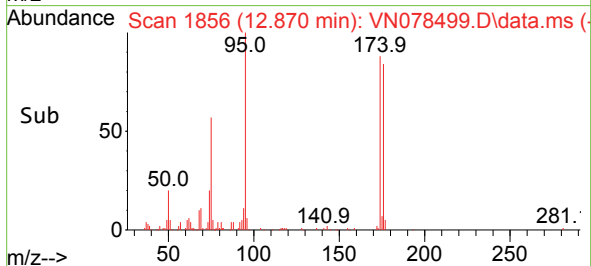
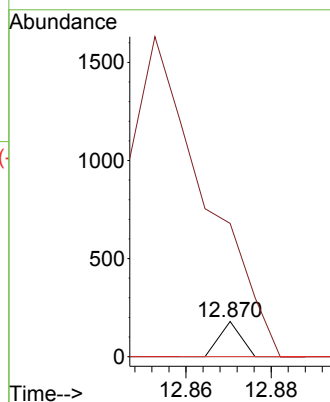
Tgt Ion:156 Resp: 63

Ion Ratio Lower Upper

156 100

77 3555.6 107.7 323.3#

158 0.0 48.4 145.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.169 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.118 min

Lab File: VN078499.D

Acq: 13 Jul 2023 15:24

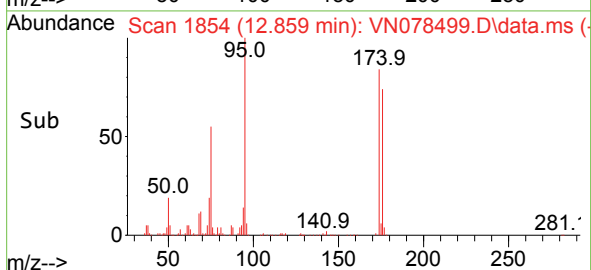
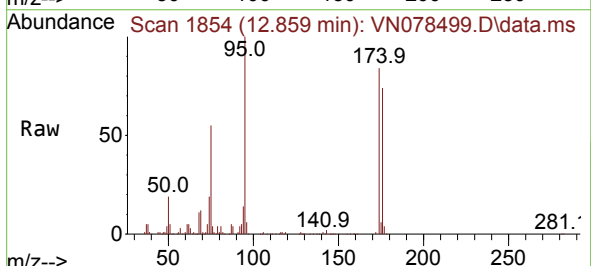
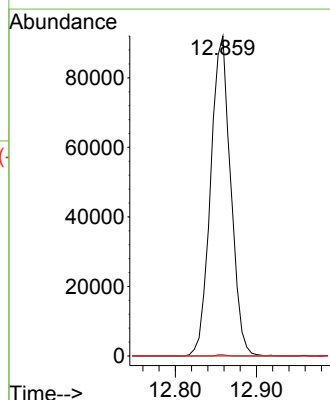
Tgt Ion: 75 Resp: 157589

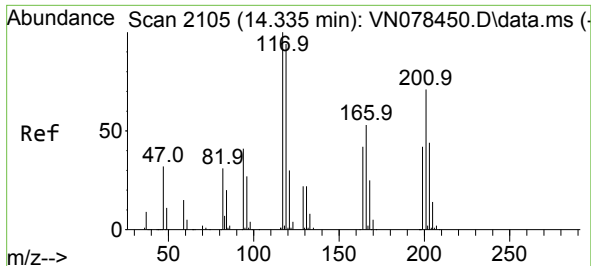
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.0 38.8 58.2#

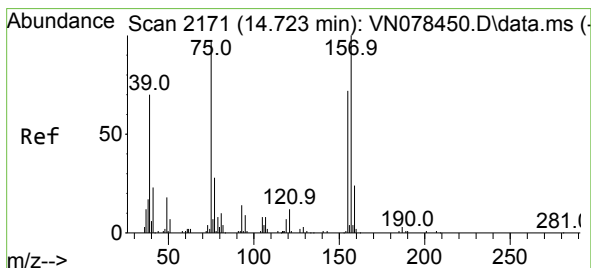
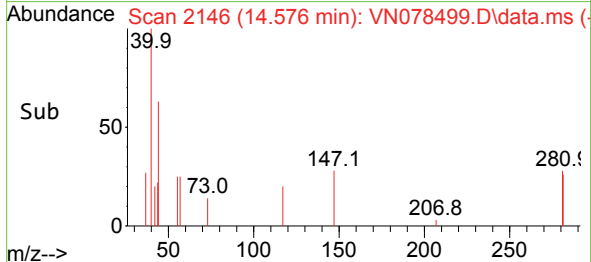
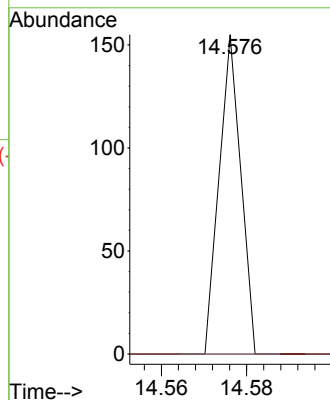
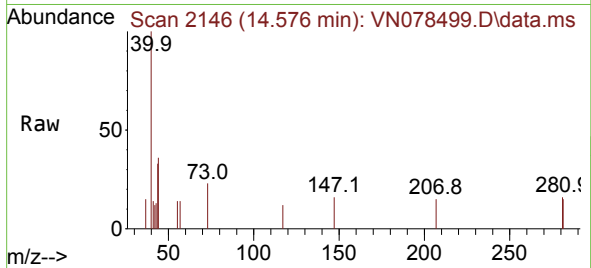




#90
Hexachloroethane
Concen: Below Cal
RT: 14.576 min Scan# 2105
Delta R.T. 0.241 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223-FD

Tgt Ion:117 Resp: 55
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.735 min Scan# 2173
Delta R.T. 0.012 min
Lab File: VN078499.D
Acq: 13 Jul 2023 15:24

Tgt Ion: 75 Resp: 64
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#

