

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071323\
 Data File : VN078505.D
 Acq On : 13 Jul 2023 18:16
 Operator : JC\MD
 Sample : 03606-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

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

Quant Time: Jul 14 01:37:02 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)

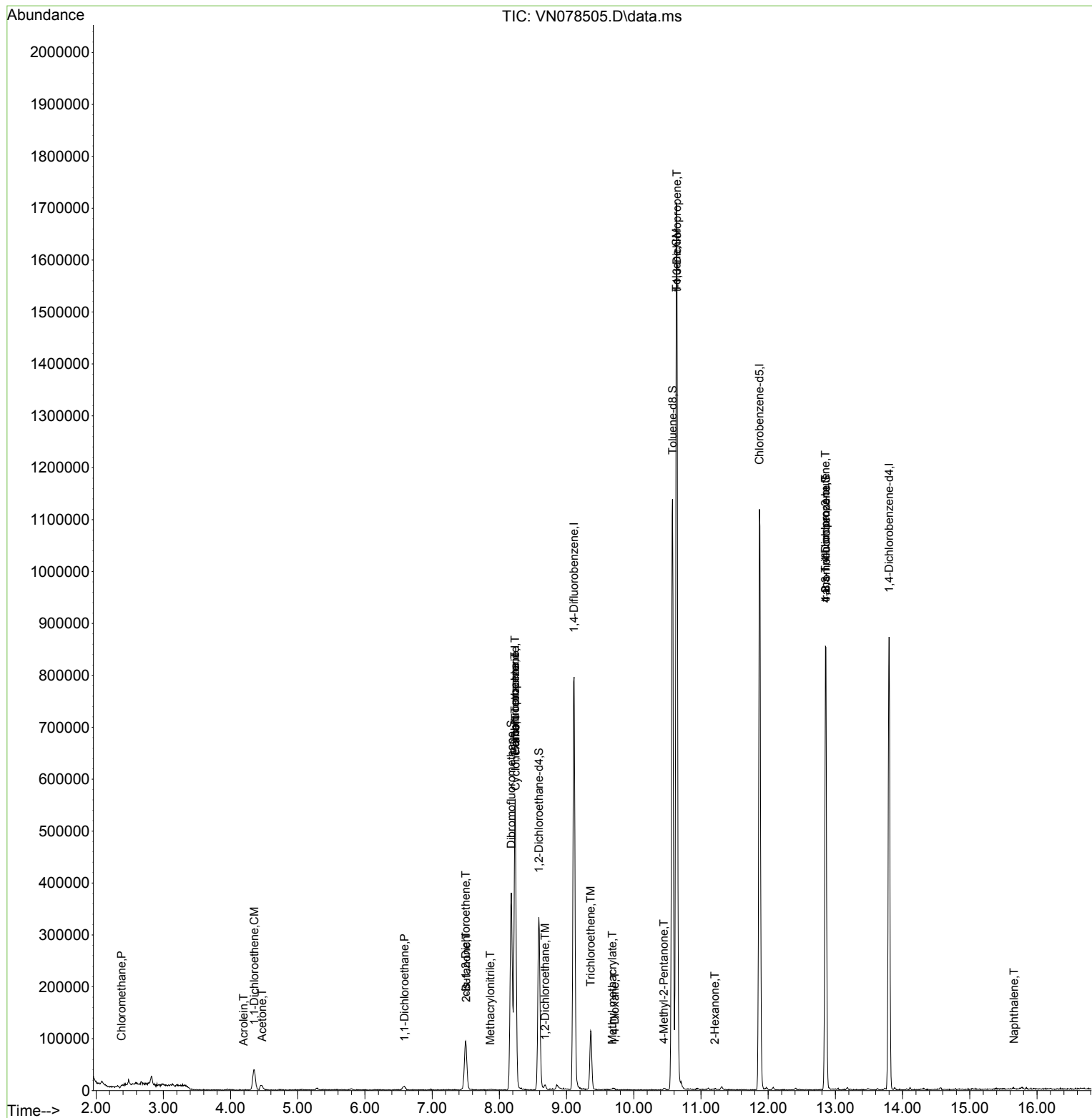
Internal Standards						
1) Pentafluorobenzene	8.235	168	397938	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	720308	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	682701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	244453	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	266868	50.024	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.040%			
35) Dibromofluoromethane	8.177	113	275005	56.242	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.480%			
50) Toluene-d8	10.576	98	839812	45.465	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 90.920%			
62) 4-Bromofluorobenzene	12.859	95	300976	52.899	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.800%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1523	0.287	ug/l #	88
5) Bromomethane	2.971	94	1683	Below Cal	#	62
6) Chloroethane	3.118	64	544	Below Cal	#	83
12) 1,1-Dichloroethene	4.353	96	24113	5.743	ug/l	93
13) Acrolein	4.194	56	202	0.250	ug/l	91
16) Acetone	4.471	43	17480	10.519	ug/l	90
20) Methylene Chloride	5.283	84	2336	Below Cal	#	55
24) 1,1-Dichloroethane	6.588	63	10918	1.261	ug/l	94
25) 2-Butanone	7.506	43	3706	1.417	ug/l #	75
27) cis-1,2-Dichloroethene	7.500	96	58354	10.661	ug/l	95
31) Cyclohexane	8.241	56	9300	1.290	ug/l #	44
36) 1,1-Dichloropropene	8.229	75	33152	4.696	ug/l #	48
38) Carbon Tetrachloride	8.235	117	43662	5.690	ug/l #	15
41) Methacrylonitrile	7.865	41	645	0.215	ug/l #	15
42) 1,2-Dichloroethane	8.682	62	7648	1.075	ug/l	97
44) Trichloroethene	9.359	130	41246	7.316	ug/l	97
48) Methyl methacrylate	9.682	41	1187	0.264	ug/l #	18
49) 1,4-Dioxane	9.718	88	1862	19.019	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	2957	0.513	ug/l #	77
52) Toluene	10.635	92	766018	59.090	ug/l	93
53) t-1,3-Dichloropropene	10.641	75	10172	1.328	ug/l #	1
59) 2-Hexanone	11.206	43	1616	0.395	ug/l #	30
75) 1,1,2,2-Tetrachloroethane	12.935	83	140	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	160675	27.193	ug/l #	1
77) Bromobenzene	12.976	156	227	Below Cal		96
81) trans-1,4-Dichloro-2-b...	12.853	75	160675	71.458	ug/l #	15
90) Hexachloroethane	14.358	117	69	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.823	75	74	Below Cal	#	4
94) Hexachlorobutadiene	15.511	225	185	Below Cal	#	1
95) Naphthalene	15.658	128	2132	0.223	ug/l #	73

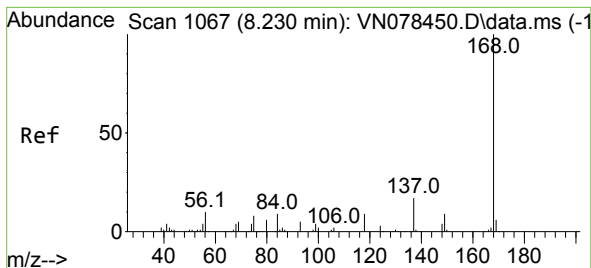
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

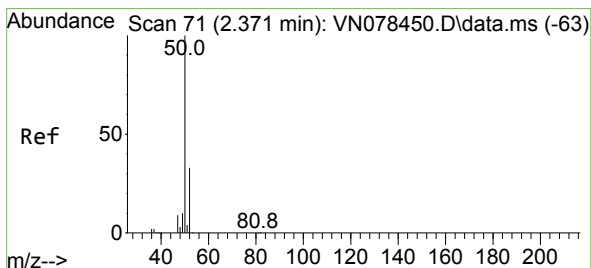
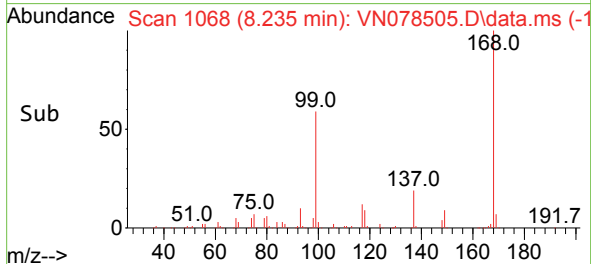
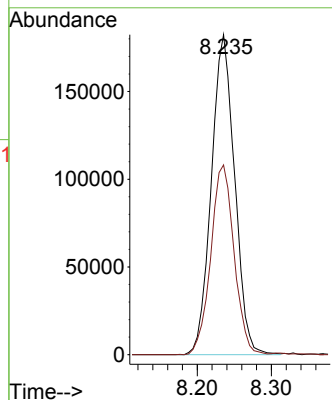
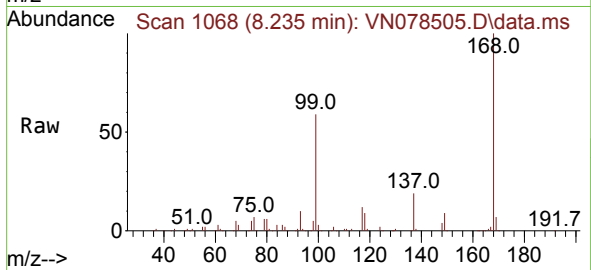
GWBR-04-293-308-071223

Tgt Ion:168 Resp: 397938

Ion Ratio Lower Upper

168 100

99 59.2 53.0 79.6



#3

Chloromethane

Concen: 0.287 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078505.D

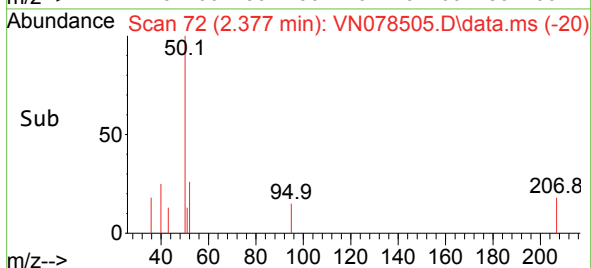
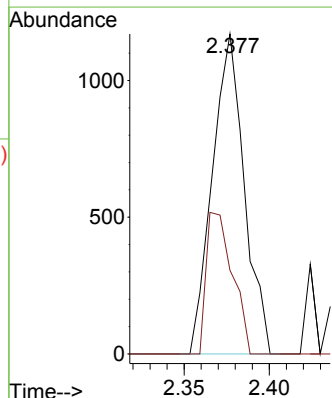
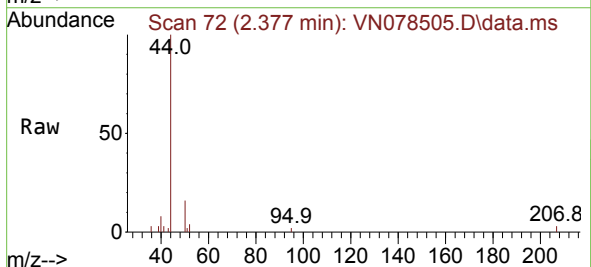
Acq: 13 Jul 2023 18:16

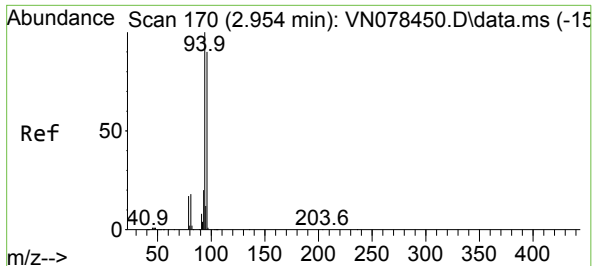
Tgt Ion: 50 Resp: 1523

Ion Ratio Lower Upper

50 100

52 26.2 26.5 39.7#

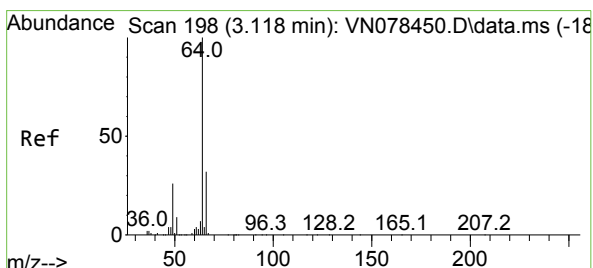
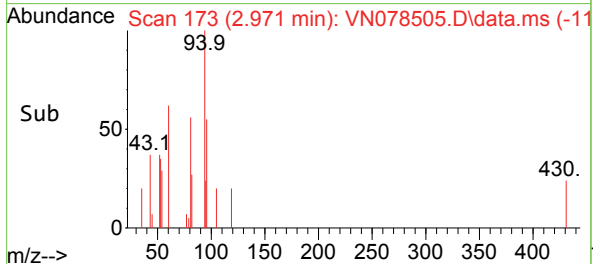
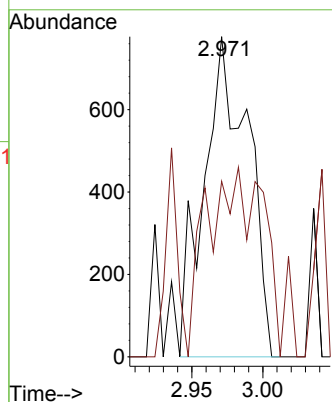
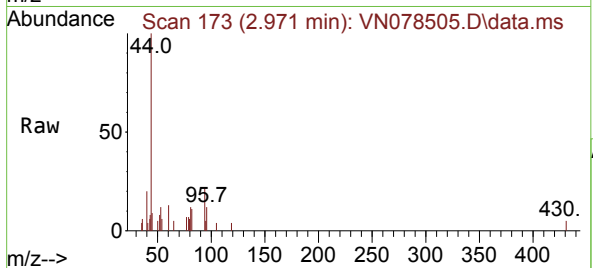




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 173
Delta R.T. 0.017 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

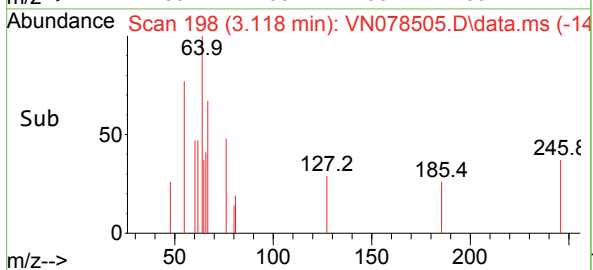
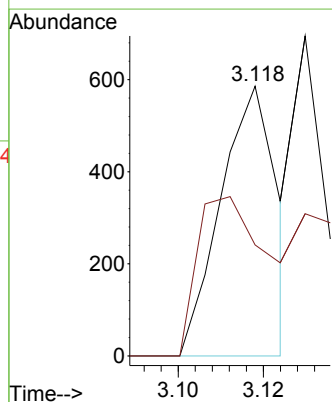
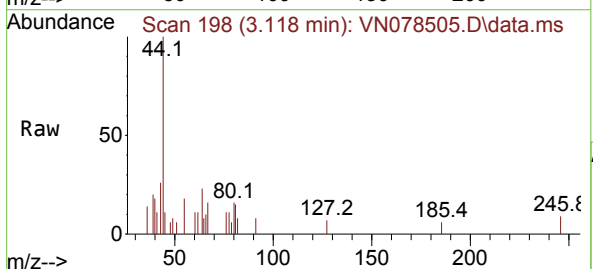
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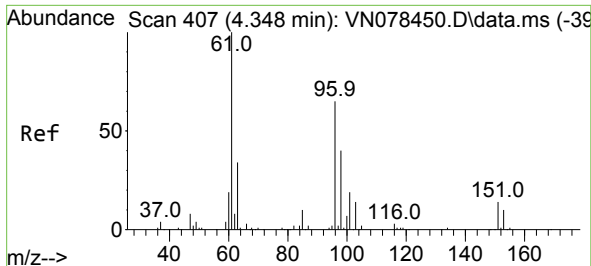
Tgt Ion: 94 Resp: 1683
Ion Ratio Lower Upper
94 100
96 54.8 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

Tgt Ion: 64 Resp: 544
Ion Ratio Lower Upper
64 100
66 41.1 25.4 38.2#





#12

1,1-Dichloroethene

Concen: 5.743 ug/l

RT: 4.353 min Scan# 407

Delta R.T. 0.005 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223

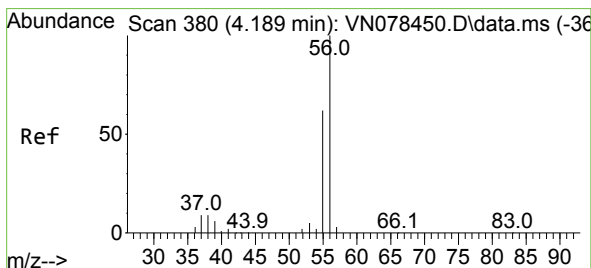
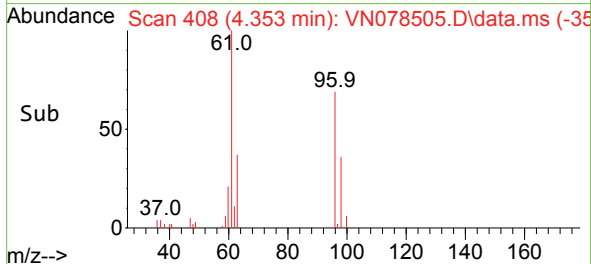
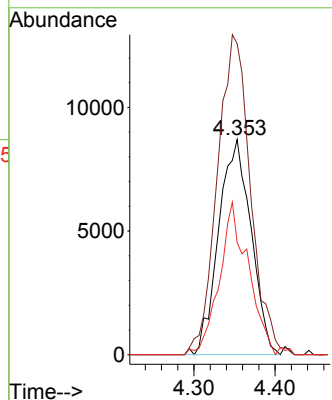
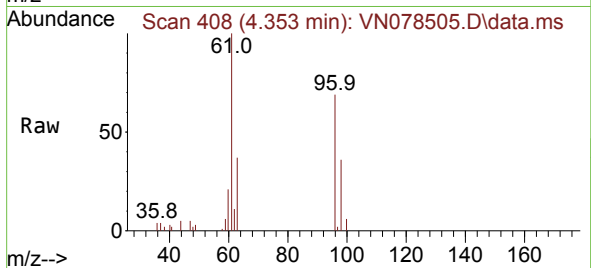
Tgt Ion: 96 Resp: 24113

Ion Ratio Lower Upper

96 100

61 144.5 112.7 169.1

98 52.1 51.2 76.8



#13

Acrolein

Concen: 0.250 ug/l

RT: 4.194 min Scan# 381

Delta R.T. 0.005 min

Lab File: VN078505.D

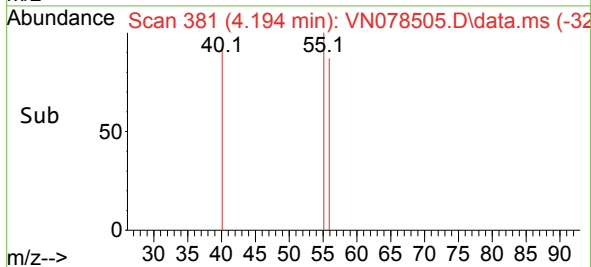
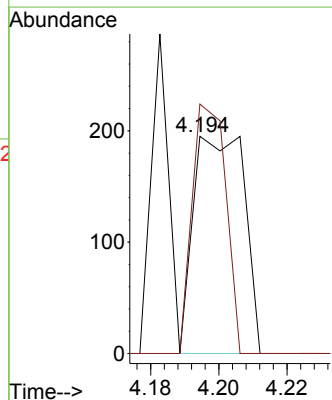
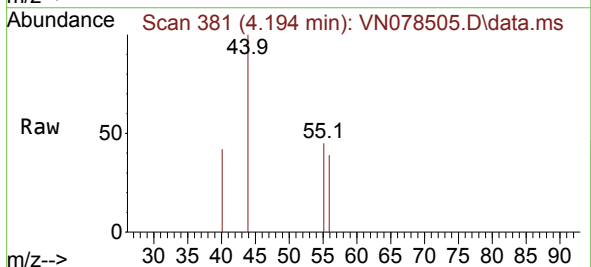
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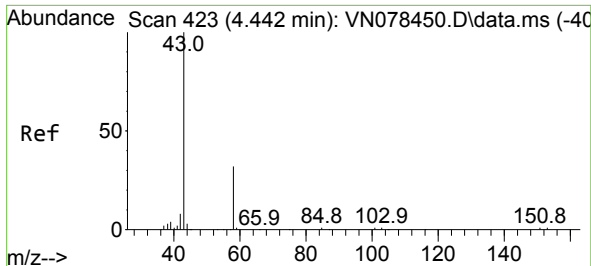
Tgt Ion: 56 Resp: 202

Ion Ratio Lower Upper

56 100

55 75.7 54.5 81.7

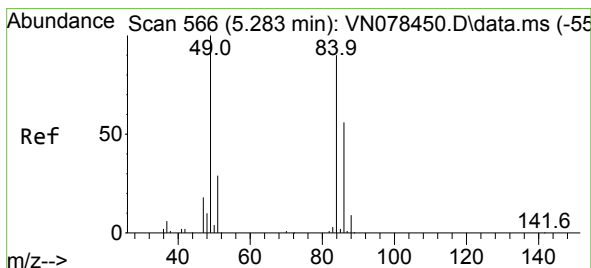
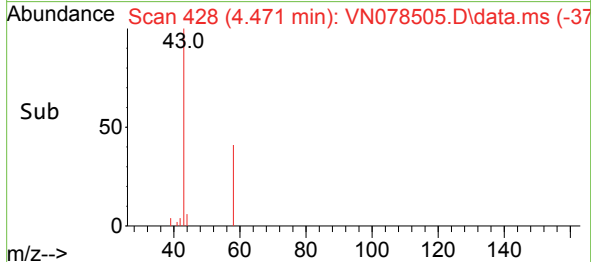
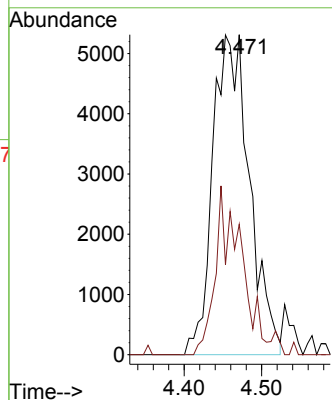
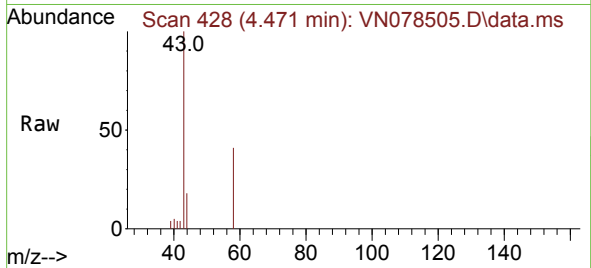




#16
Acetone
Concen: 10.519 ug/l
RT: 4.471 min Scan# 41
Delta R.T. 0.029 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

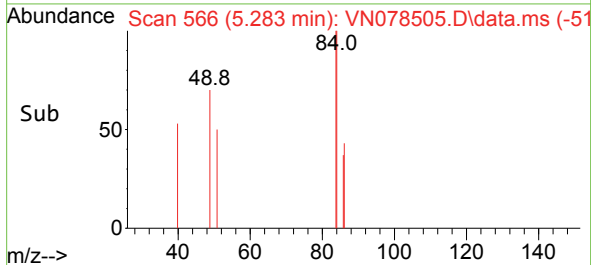
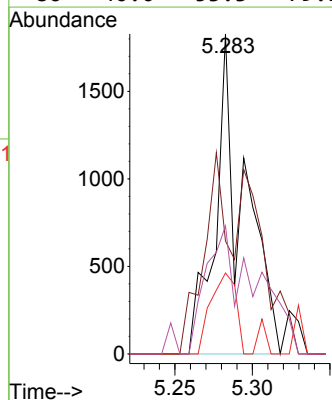
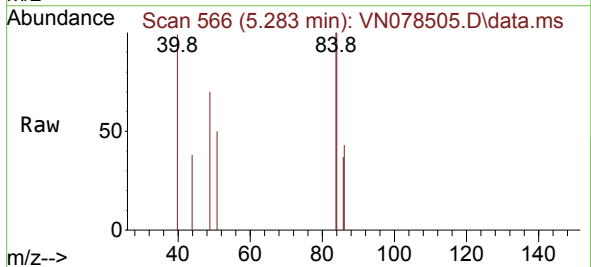
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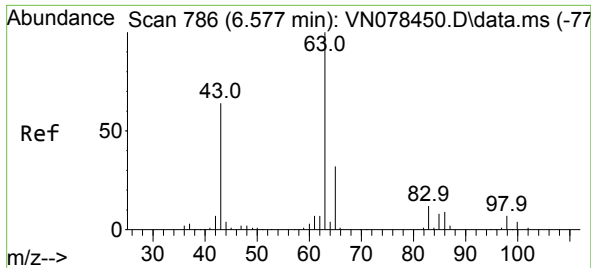
Tgt Ion: 43 Resp: 17480
Ion Ratio Lower Upper
43 100
58 40.8 28.0 42.0



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

Tgt Ion: 84 Resp: 2336
Ion Ratio Lower Upper
84 100
49 35.3 79.7 119.5#
51 25.3 25.2 37.8
86 40.0 53.3 79.9#

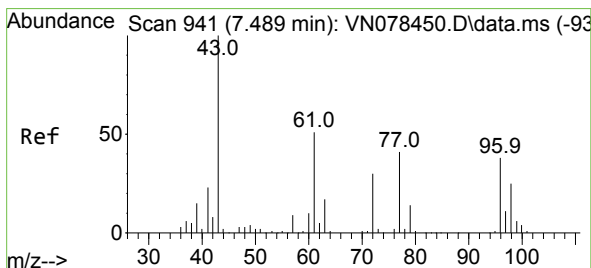
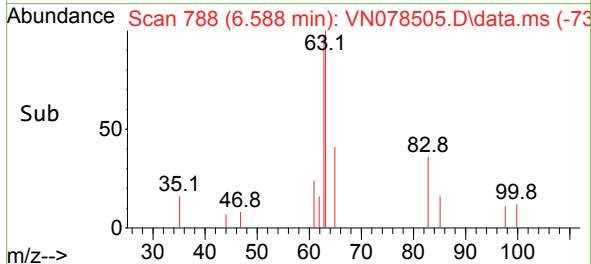
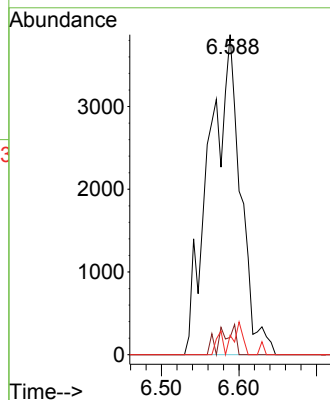
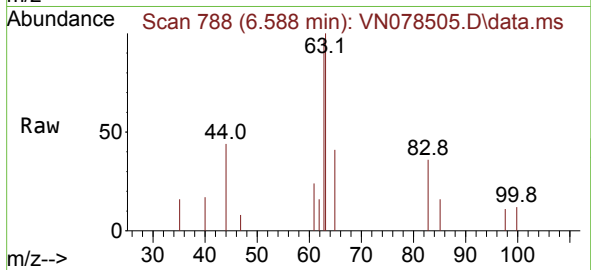




#24
1,1-Dichloroethane
Concen: 1.261 ug/l
RT: 6.588 min Scan# 71
Delta R.T. 0.011 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

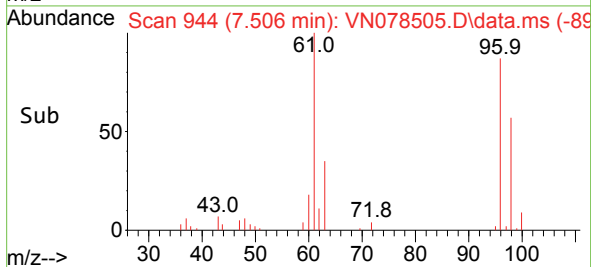
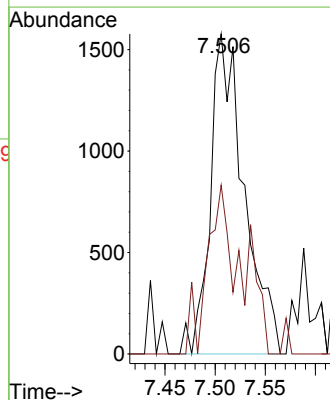
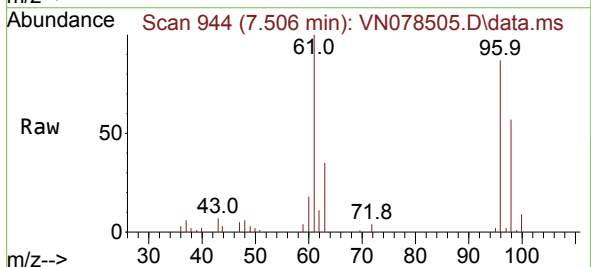
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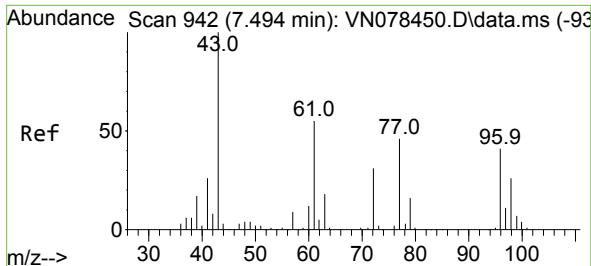
Tgt Ion: 63 Resp: 10918
Ion Ratio Lower Upper
63 100
98 5.4 3.9 11.7
100 6.1 2.5 7.4



#25
2-Butanone
Concen: 1.417 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

Tgt Ion: 43 Resp: 3706
Ion Ratio Lower Upper
43 100
72 52.8 30.2 45.2#

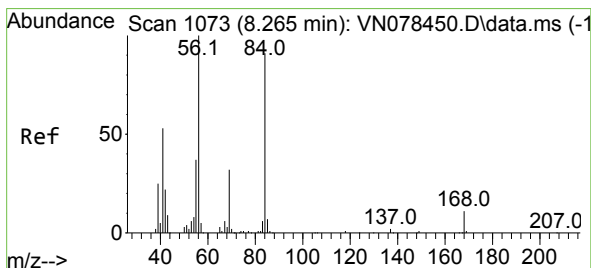
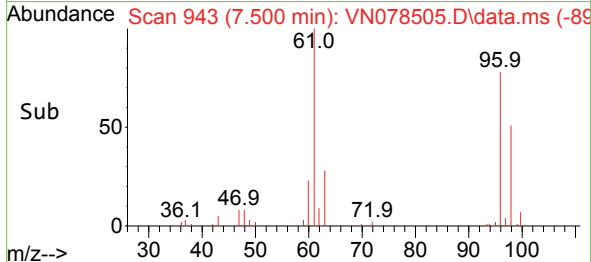
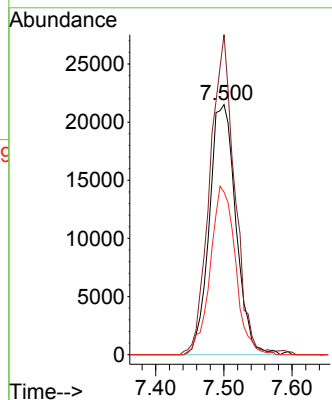
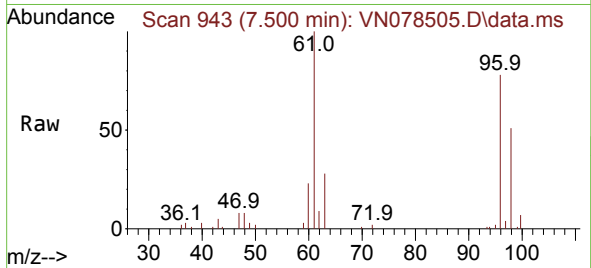




#27
 cis-1,2-Dichloroethene
 Concen: 10.661 ug/l
 RT: 7.500 min Scan# 94
 Delta R.T. 0.006 min
 Lab File: VN078505.D
 Acq: 13 Jul 2023 18:16

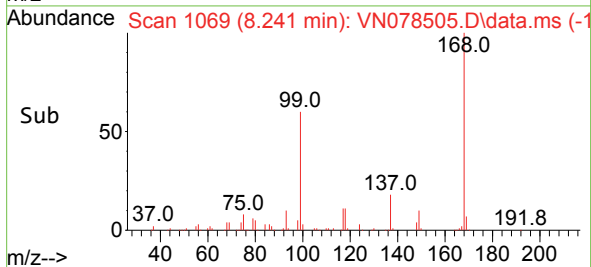
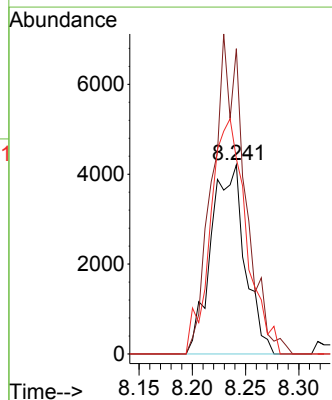
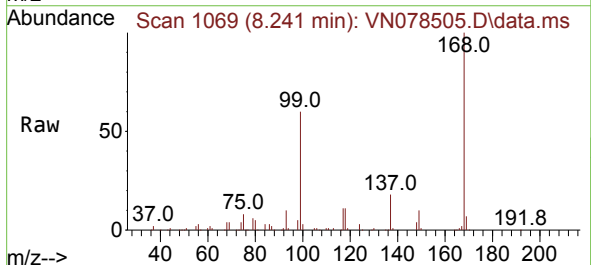
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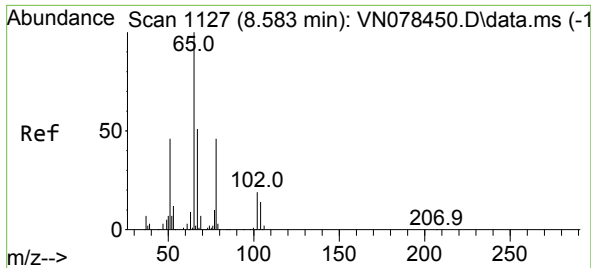
Tgt Ion: 96 Resp: 58354
 Ion Ratio Lower Upper
 96 100
 61 119.3 0.0 255.2
 98 63.7 0.0 128.8



#31
 Cyclohexane
 Concen: 1.290 ug/l
 RT: 8.241 min Scan# 1069
 Delta R.T. -0.024 min
 Lab File: VN078505.D
 Acq: 13 Jul 2023 18:16

Tgt Ion: 56 Resp: 9300
 Ion Ratio Lower Upper
 56 100
 69 161.4 26.8 40.2#
 84 103.2 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 50.024 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

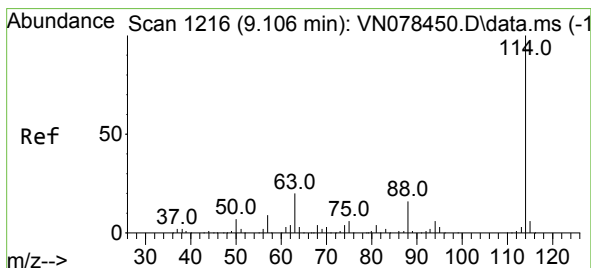
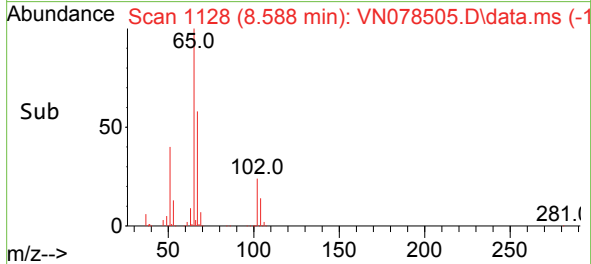
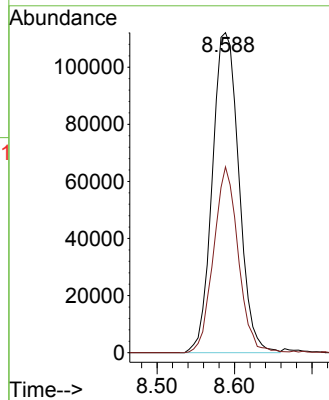
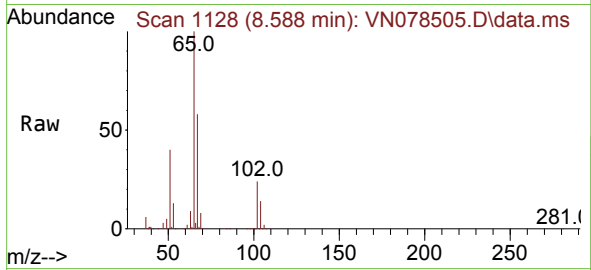
GWBR-04-293-308-071223

Tgt Ion: 65 Resp: 266868

Ion Ratio Lower Upper

65 100

67 54.0 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: VN078505.D

Acq: 13 Jul 2023 18:16

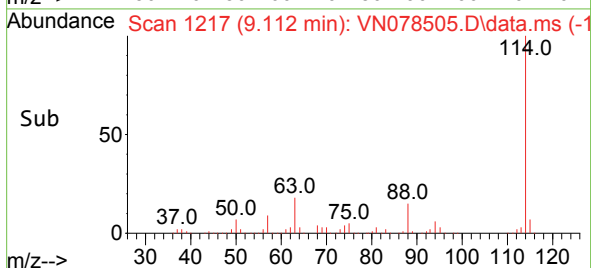
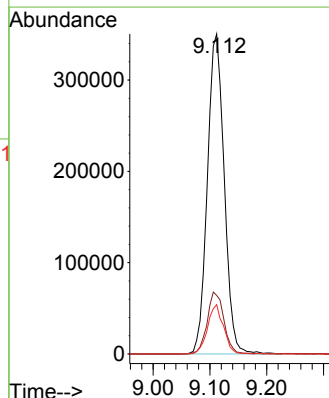
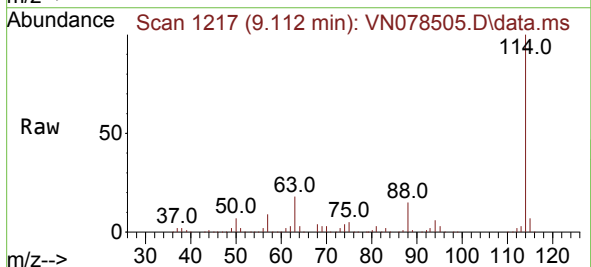
Tgt Ion: 114 Resp: 720308

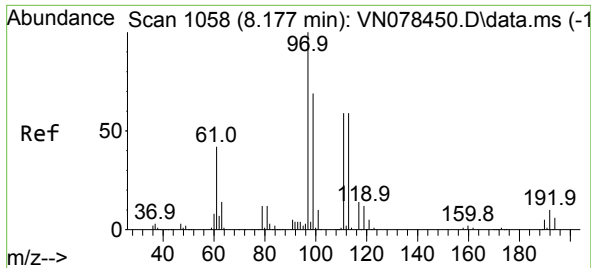
Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.4

88 15.4 0.0 30.6

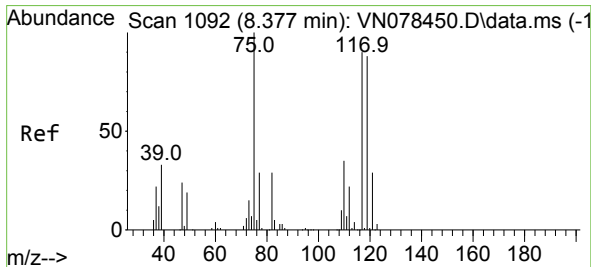
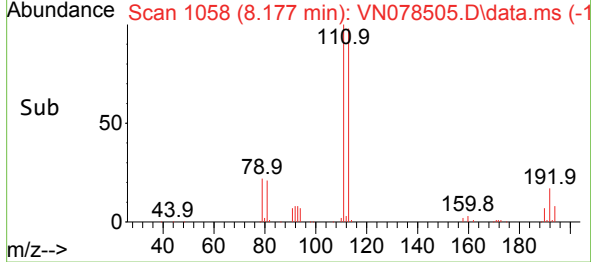
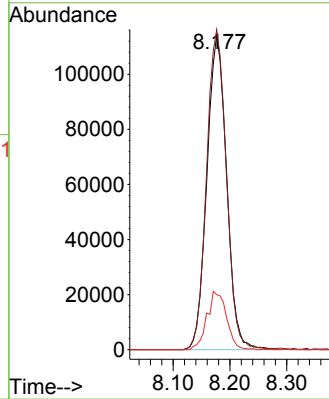
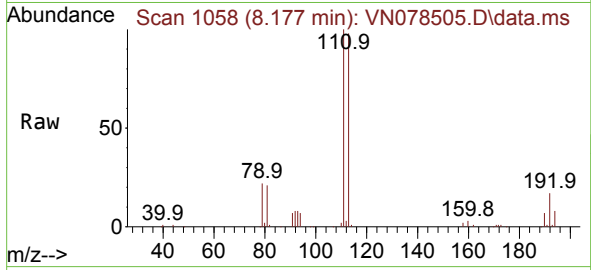




#35
Dibromofluoromethane
Concen: 56.242 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

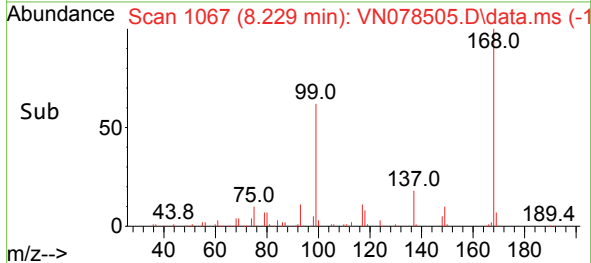
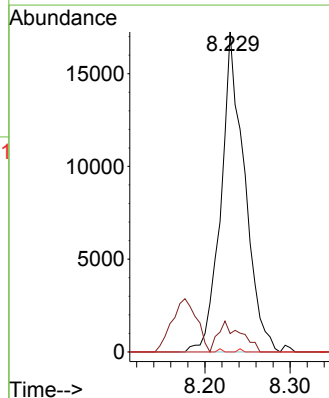
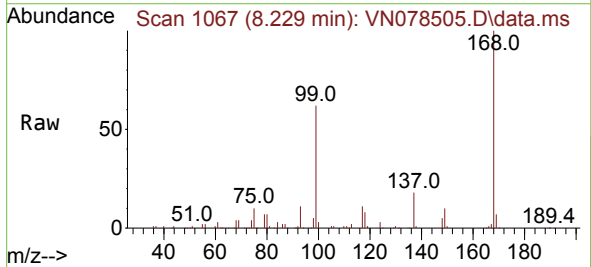
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223

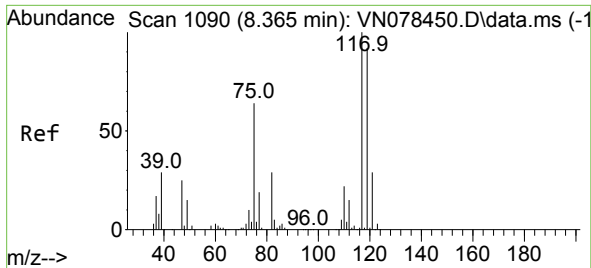
Tgt Ion:113 Resp: 275005
Ion Ratio Lower Upper
113 100
111 102.2 82.6 123.8
192 18.3 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.696 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.148 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

Tgt Ion: 75 Resp: 33152
Ion Ratio Lower Upper
75 100
110 9.3 19.1 57.3#
77 0.2 25.0 37.4#

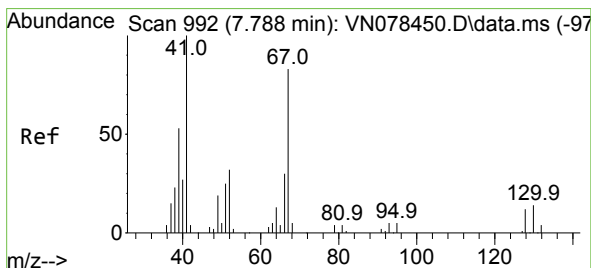
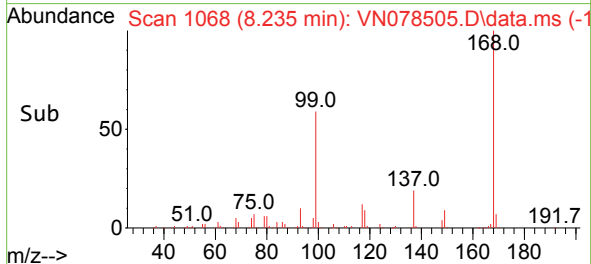
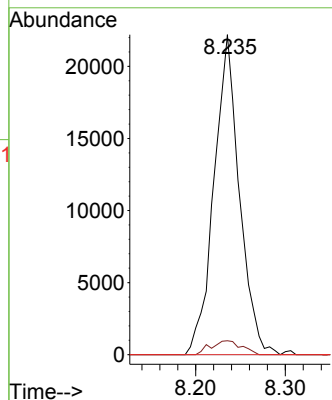
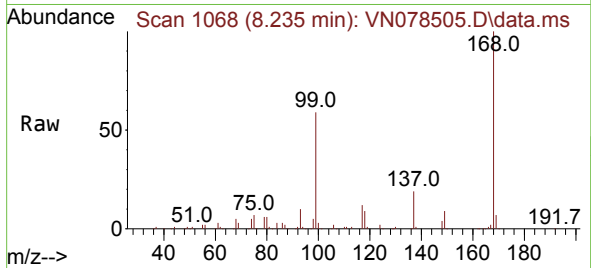




#38
Carbon Tetrachloride
Concen: 5.690 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.130 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

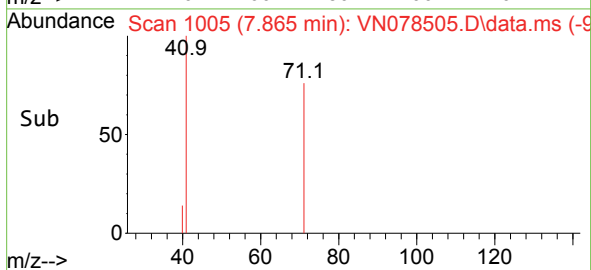
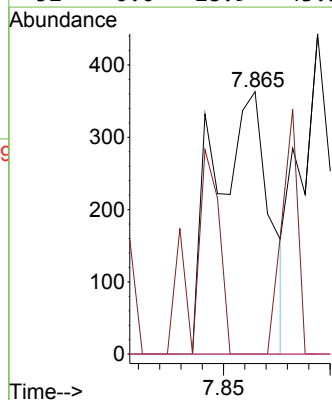
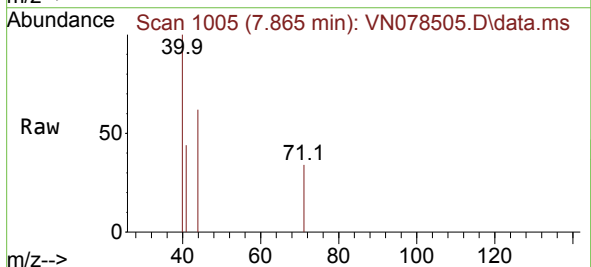
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223

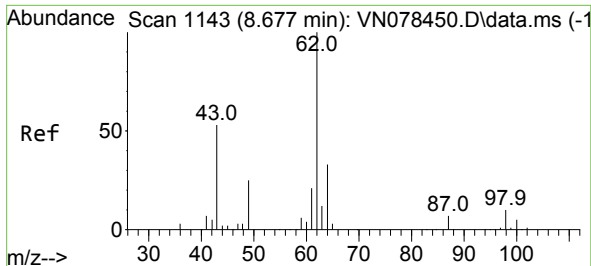
Tgt Ion:117 Resp: 43662
Ion Ratio Lower Upper
117 100
119 4.4 77.3 115.9#
121 0.0 23.3 34.9#



#41
Methacrylonitrile
Concen: 0.215 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.077 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

Tgt Ion: 41 Resp: 645
Ion Ratio Lower Upper
41 100
39 0.0 42.6 64.0#
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#





#42

1,2-Dichloroethane

Concen: 1.075 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

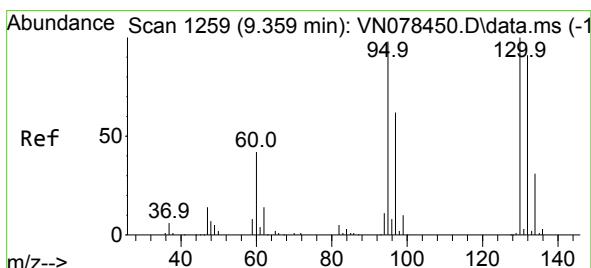
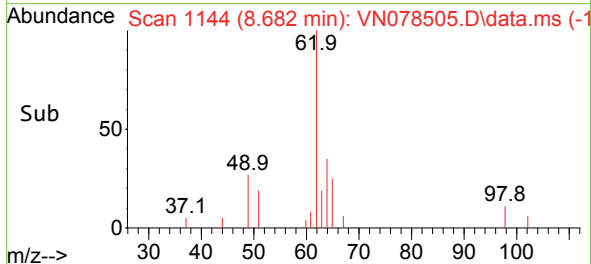
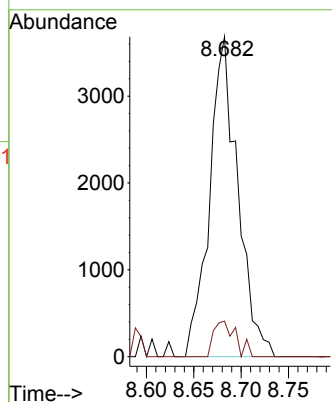
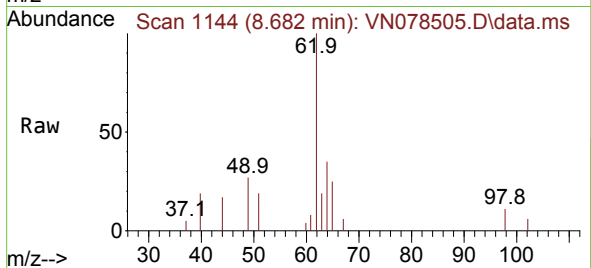
GWBR-04-293-308-071223

Tgt Ion: 62 Resp: 7648

Ion Ratio Lower Upper

62 100

98 8.6 0.0 19.8



#44

Trichloroethene

Concen: 7.316 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.000 min

Lab File: VN078505.D

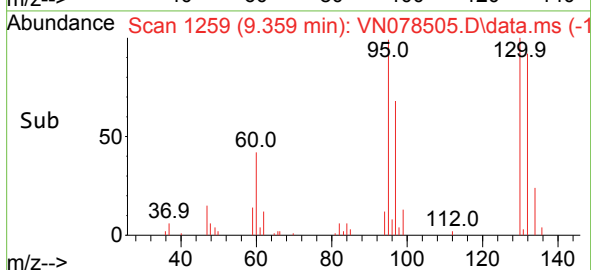
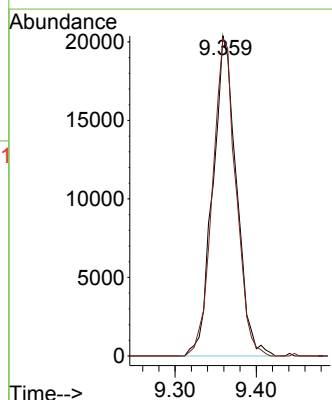
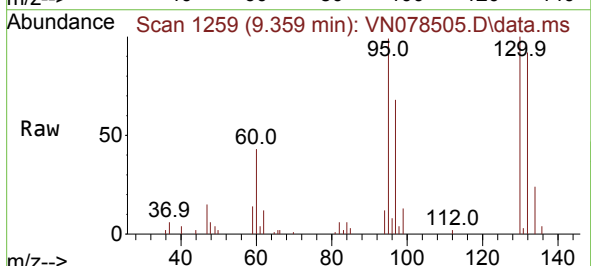
Acq: 13 Jul 2023 18:16

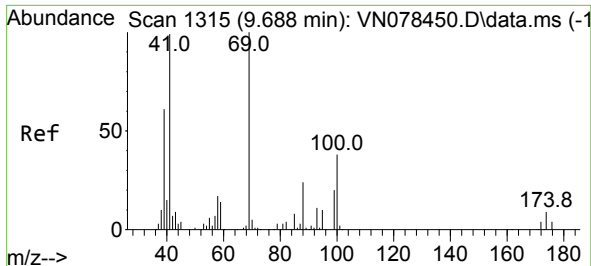
Tgt Ion:130 Resp: 41246

Ion Ratio Lower Upper

130 100

95 99.2 0.0 204.6

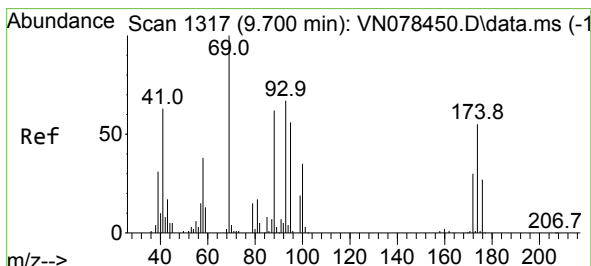
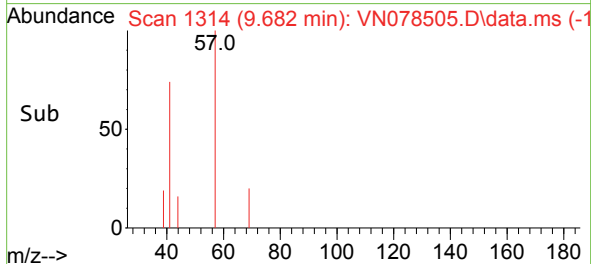
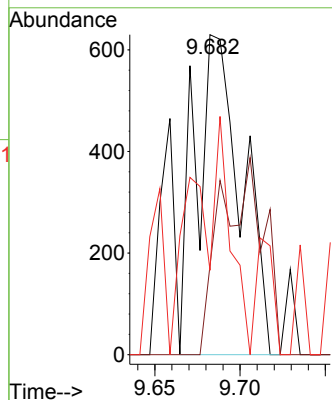
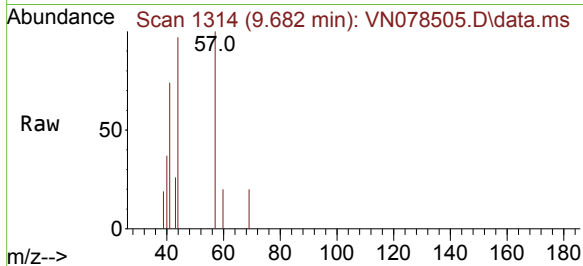




#48
Methyl methacrylate
Concen: 0.264 ug/l
RT: 9.682 min Scan# 1187
Delta R.T. -0.006 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

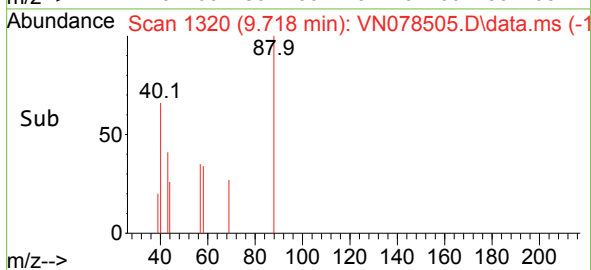
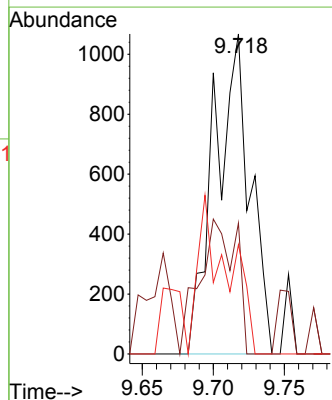
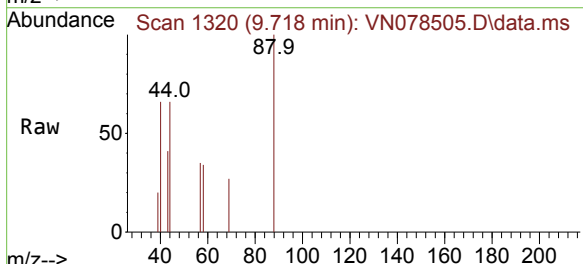
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223

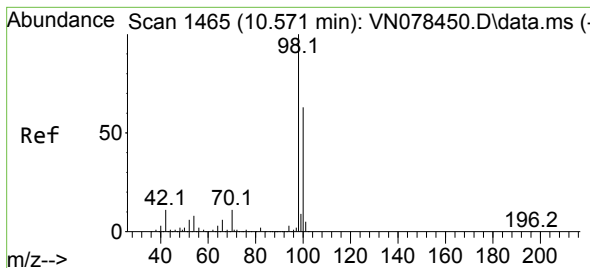
Tgt Ion: 41 Resp: 1187
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 32.1 54.6 81.8#



#49
1,4-Dioxane
Concen: 19.019 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.018 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

Tgt Ion: 88 Resp: 1862
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#





#50

Toluene-d8

Concen: 45.465 ug/l

RT: 10.576 min Scan# 1465

Delta R.T. 0.005 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

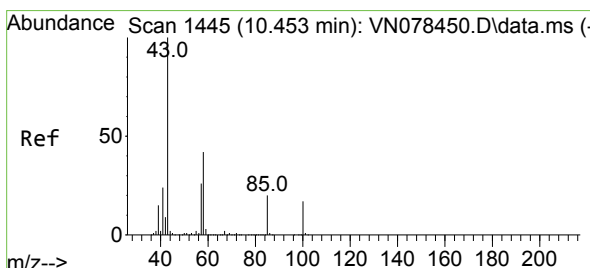
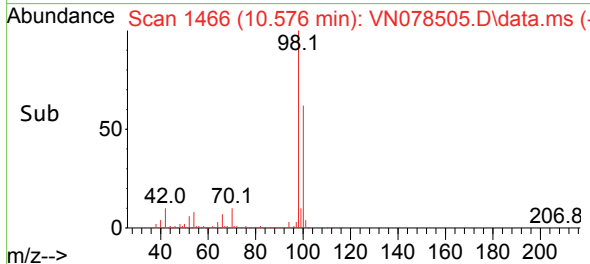
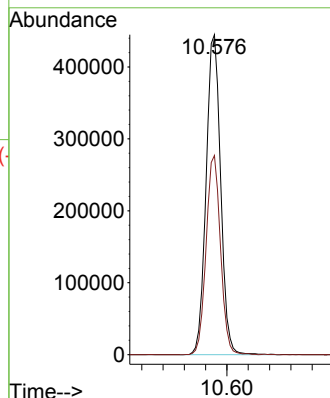
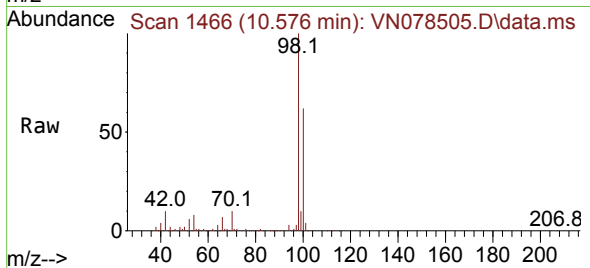
GWBR-04-293-308-071223

Tgt Ion: 98 Resp: 839812

Ion Ratio Lower Upper

98 100

100 61.8 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.513 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.006 min

Lab File: VN078505.D

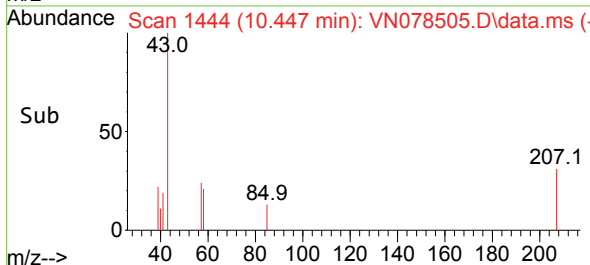
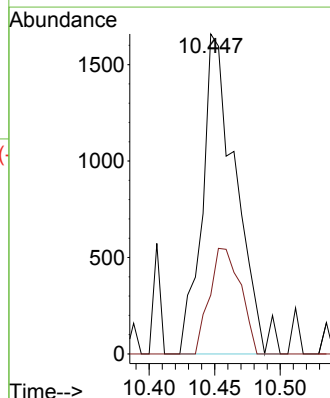
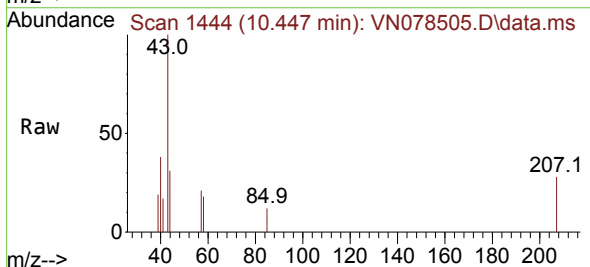
Acq: 13 Jul 2023 18:16

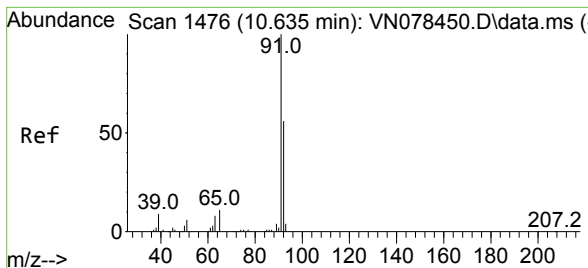
Tgt Ion: 43 Resp: 2957

Ion Ratio Lower Upper

43 100

58 30.4 36.6 54.8#





#52

Toluene

Concen: 59.090 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

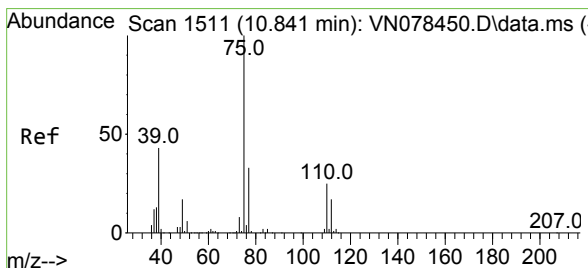
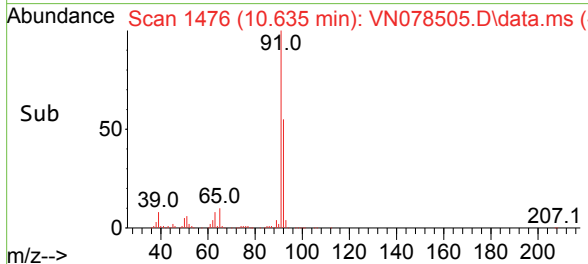
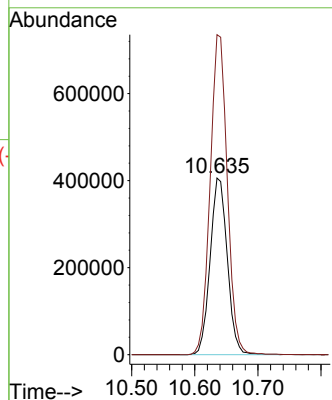
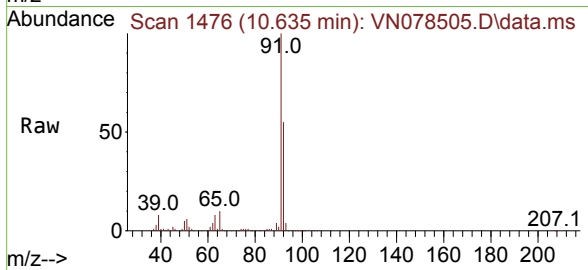
GWBR-04-293-308-071223

Tgt Ion: 92 Resp: 766018

Ion Ratio Lower Upper

92 100

91 181.2 137.4 206.0



#53

t-1,3-Dichloropropene

Concen: 1.328 ug/l

RT: 10.641 min Scan# 1477

Delta R.T. -0.200 min

Lab File: VN078505.D

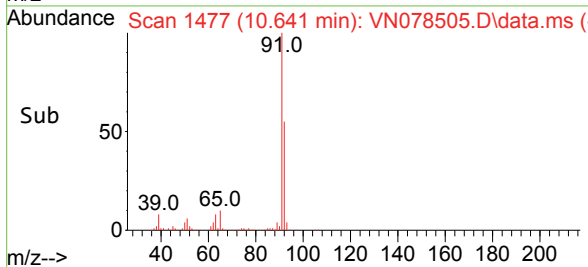
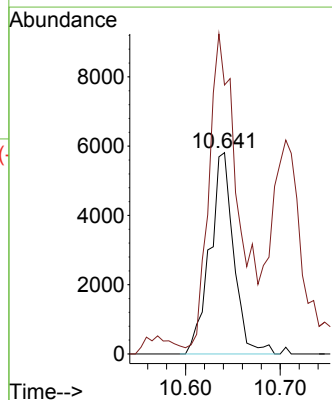
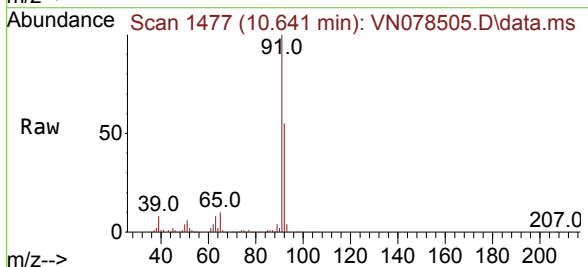
Acq: 13 Jul 2023 18:16

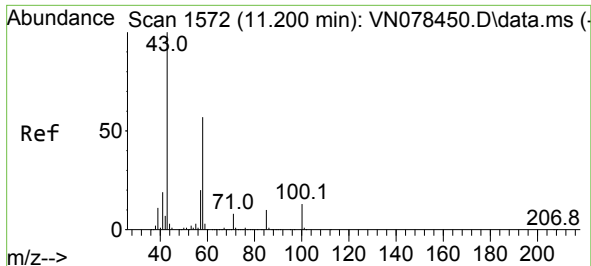
Tgt Ion: 75 Resp: 10172

Ion Ratio Lower Upper

75 100

77 129.5 25.4 38.0#

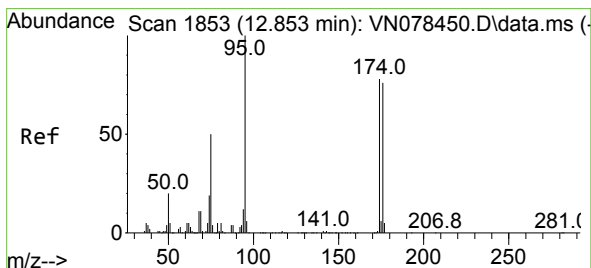
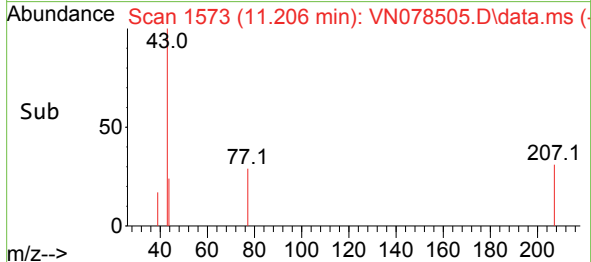
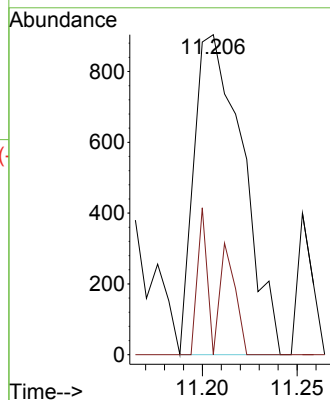
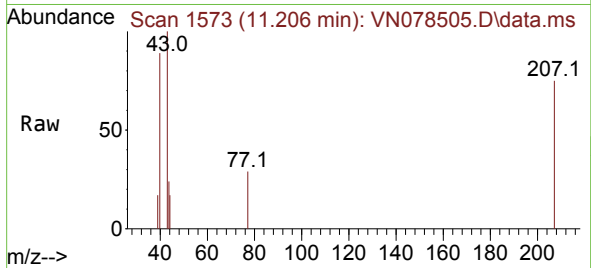




#59
2-Hexanone
Concen: 0.395 ug/l
RT: 11.206 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

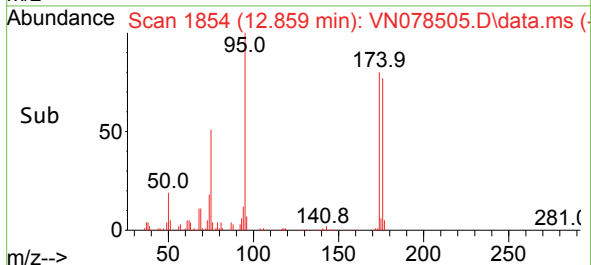
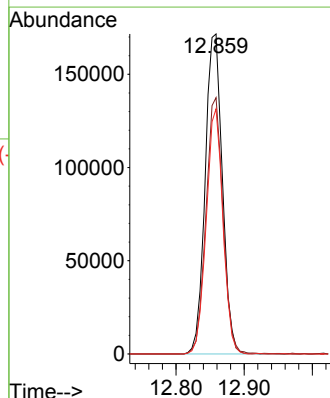
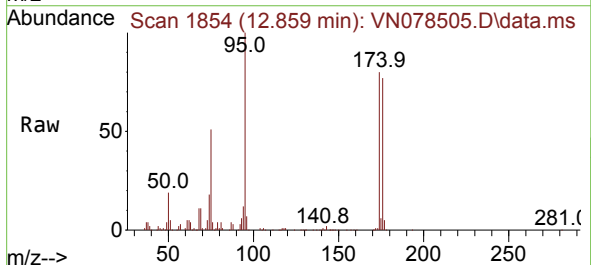
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223

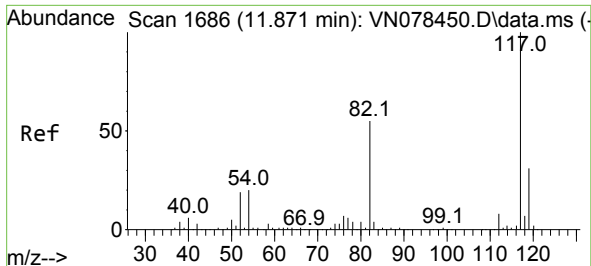
Tgt Ion: 43 Resp: 1616
Ion Ratio Lower Upper
43 100
58 9.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.899 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

Tgt Ion: 95 Resp: 300976
Ion Ratio Lower Upper
95 100
174 80.0 0.0 143.8
176 74.3 0.0 135.8

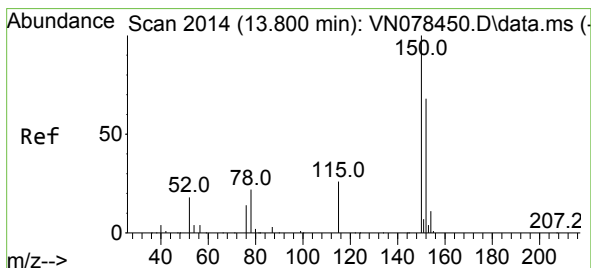
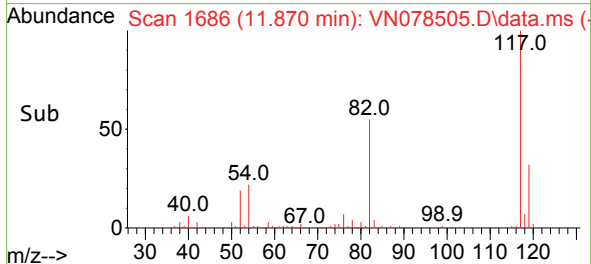
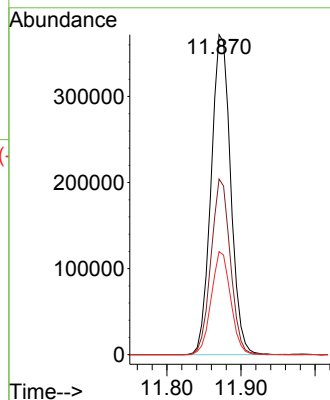
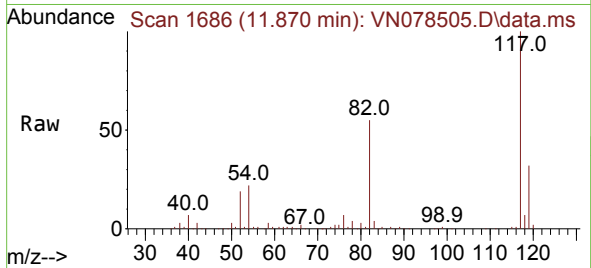




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

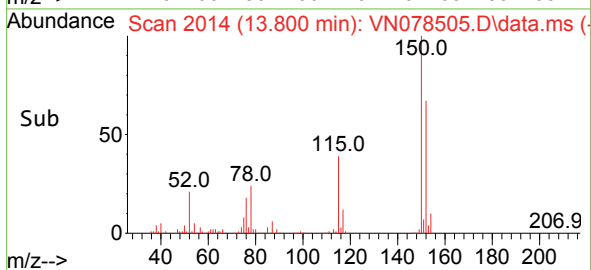
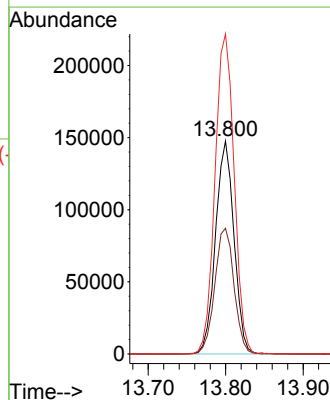
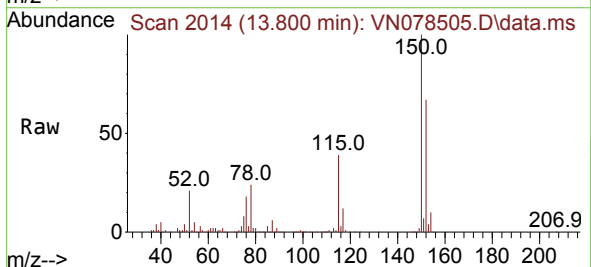
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-293-308-071223

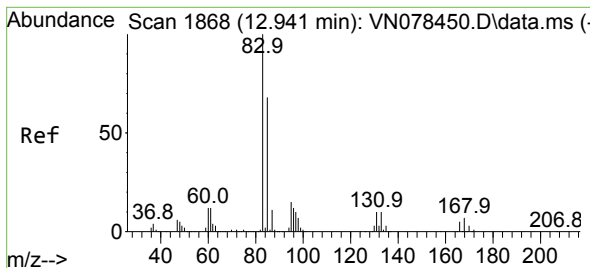
Tgt Ion:117 Resp: 682701
Ion Ratio Lower Upper
117 100
82 54.9 44.0 66.0
119 32.2 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078505.D
Acq: 13 Jul 2023 18:16

Tgt Ion:152 Resp: 244453
Ion Ratio Lower Upper
152 100
115 61.6 32.3 96.8
150 155.6 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078505.D

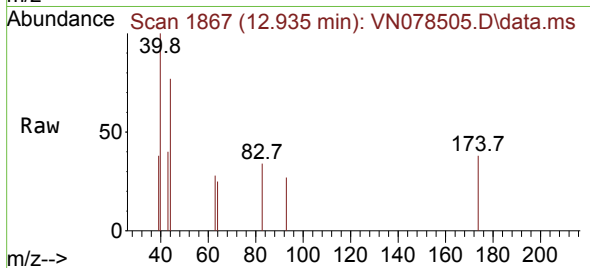
Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223



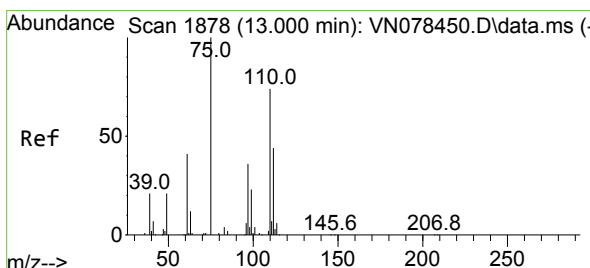
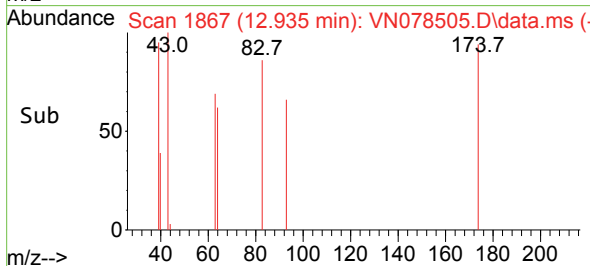
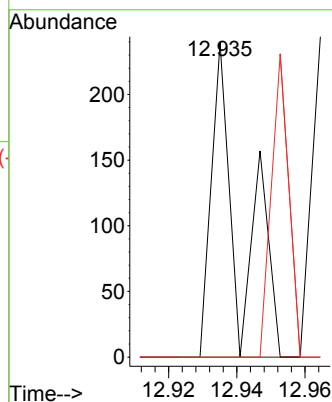
Tgt Ion: 83 Resp: 140

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 27.193 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078505.D

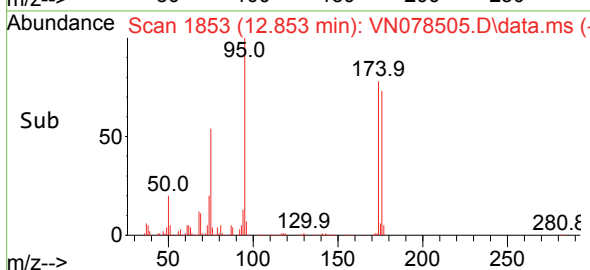
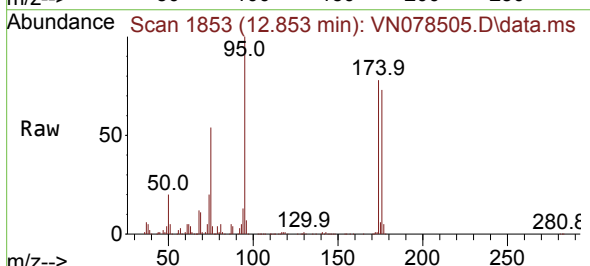
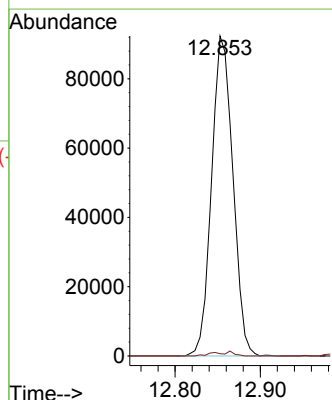
Acq: 13 Jul 2023 18:16

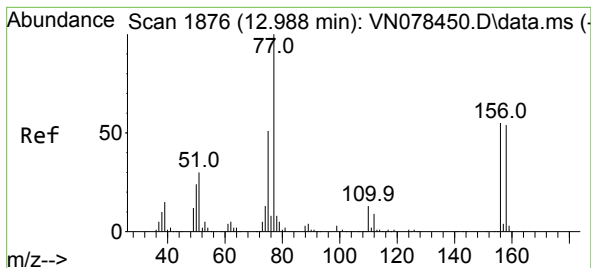
Tgt Ion: 75 Resp: 160675

Ion Ratio Lower Upper

75 100

77 0.8 84.5 253.5#





#77

Bromobenzene

Concen: Below Cal

RT: 12.976 min Scan# 1874

Delta R.T. -0.012 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223

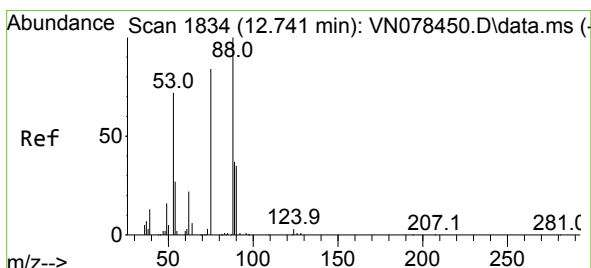
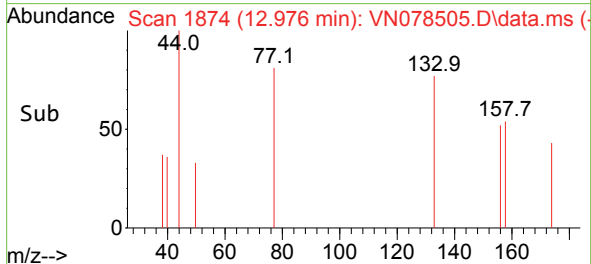
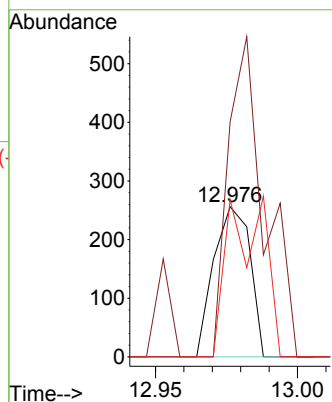
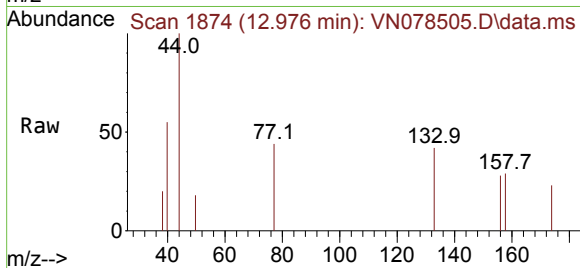
Tgt Ion:156 Resp: 227

Ion Ratio Lower Upper

156 100

77 215.0 107.7 323.3

158 107.9 48.4 145.3



#81

trans-1,4-Dichloro-2-butene

Concen: 71.458 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

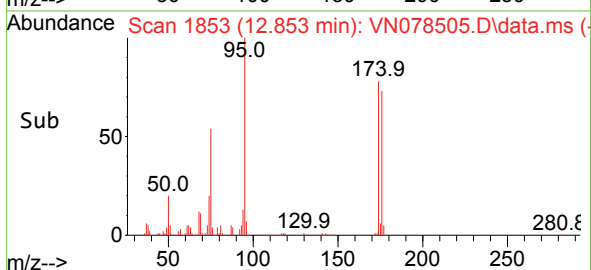
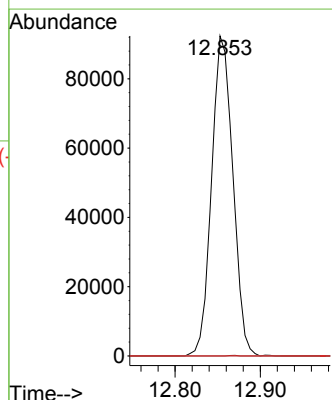
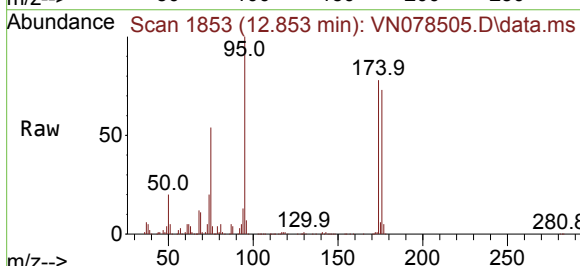
Tgt Ion: 75 Resp: 160675

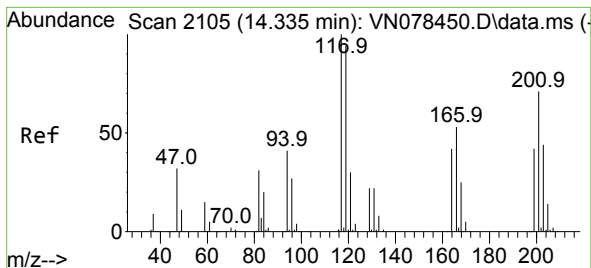
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.358 min Scan# 2105

Delta R.T. 0.023 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

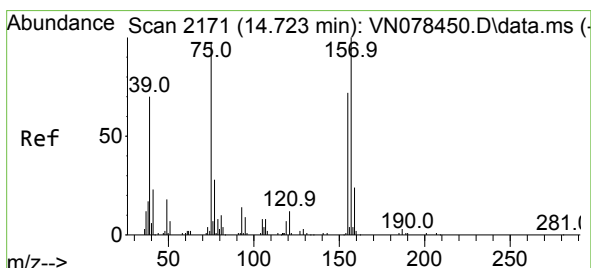
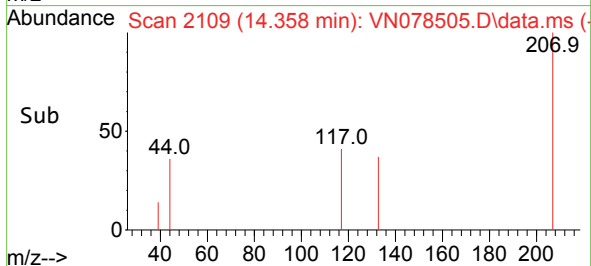
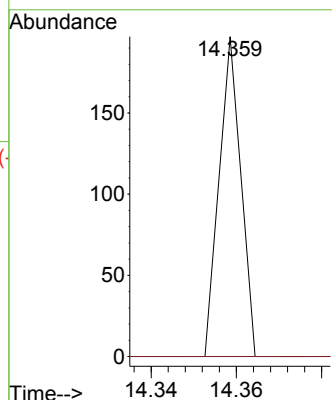
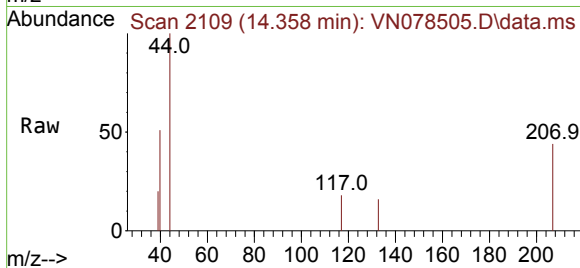
GWBR-04-293-308-071223

Tgt Ion:117 Resp: 69

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.823 min Scan# 2188

Delta R.T. 0.100 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

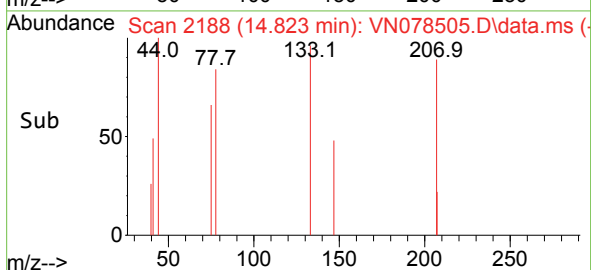
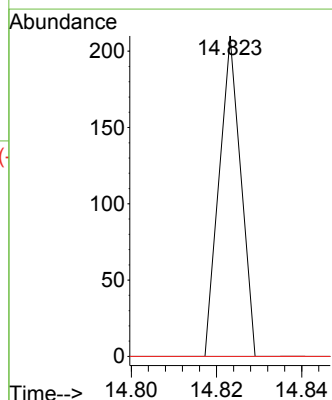
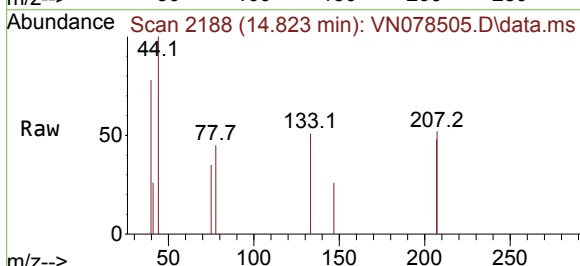
Tgt Ion: 75 Resp: 74

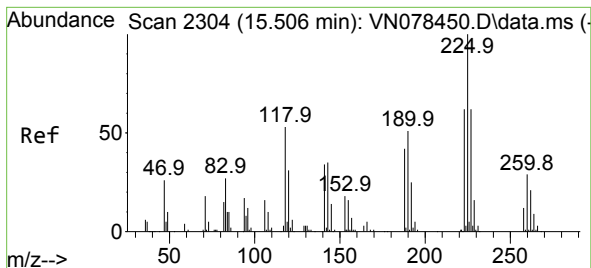
Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

157 0.0 50.3 150.9#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.511 min Scan# 21

Delta R.T. 0.005 min

Lab File: VN078505.D

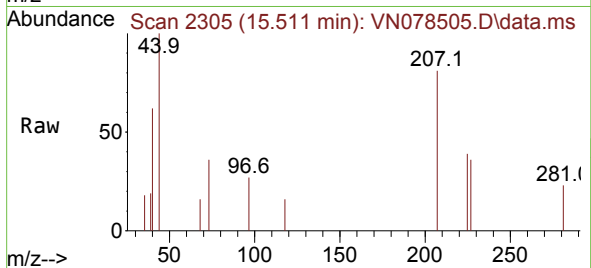
Acq: 13 Jul 2023 18:16

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-293-308-071223



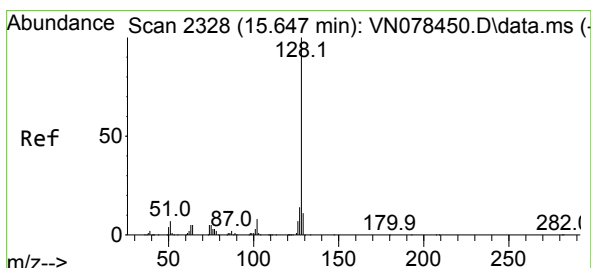
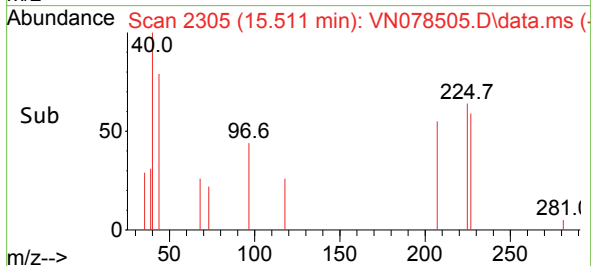
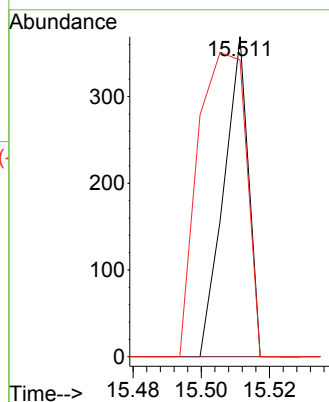
Tgt Ion:225 Resp: 185

Ion Ratio Lower Upper

225 100

223 0.0 31.3 93.8#

227 185.4 31.9 95.9#



#95

Naphthalene

Concen: 0.223 ug/l

RT: 15.658 min Scan# 2330

Delta R.T. 0.011 min

Lab File: VN078505.D

Acq: 13 Jul 2023 18:16

Tgt Ion:128 Resp: 2132

Ion Ratio Lower Upper

128 100

127 2.6 10.0 15.0#

129 0.0 8.7 13.1#

