

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072123\
 Data File : VN078611.D
 Acq On : 21 Jul 2023 14:11
 Operator : JC\MD
 Sample : 03709-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWBR-04-400-415-072023

Quant Time: Jul 21 23:22:57 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)

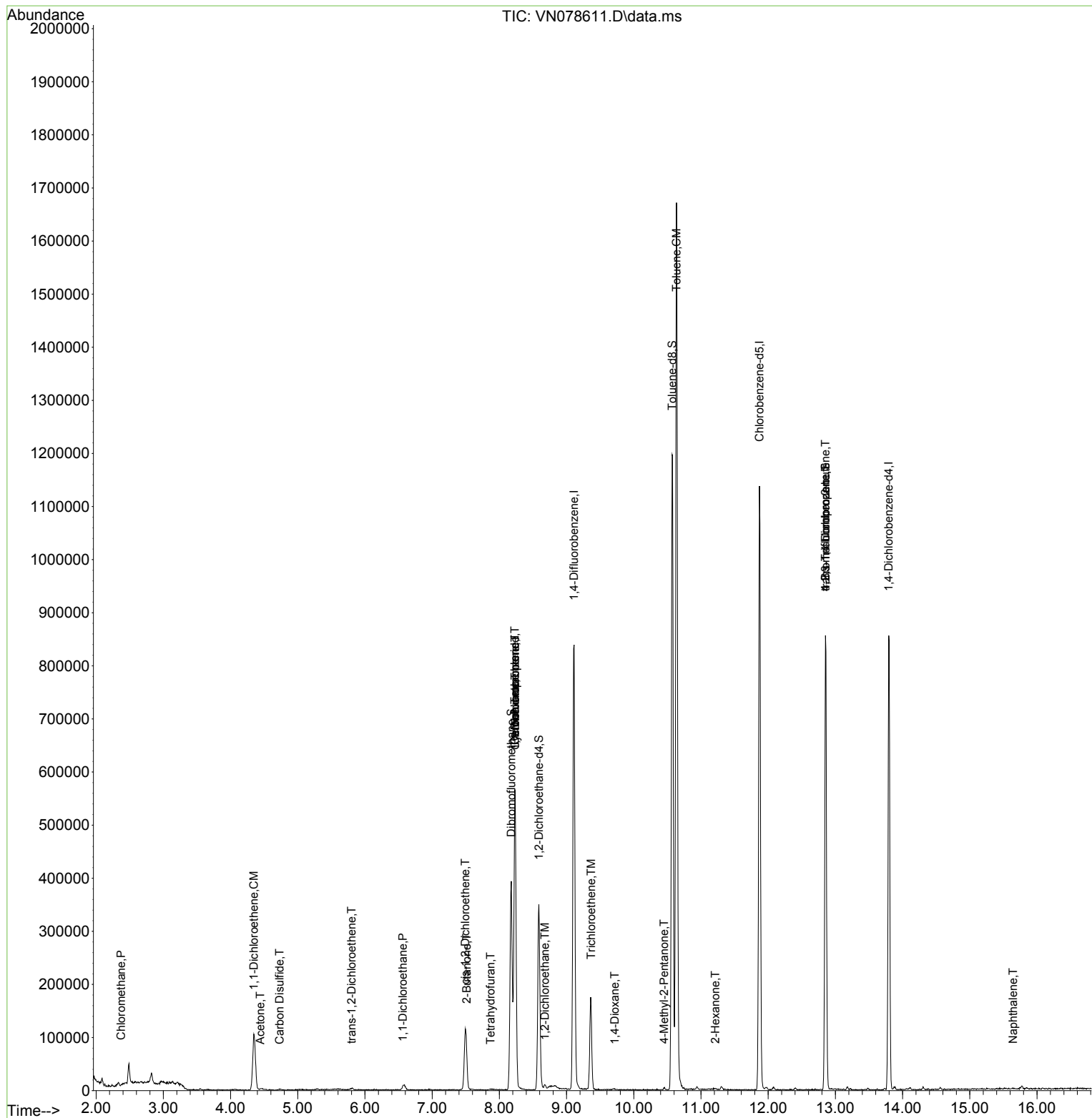
Internal Standards						
1) Pentafluorobenzene	8.230	168	419023	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	754724	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	706281	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	243958	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	282909	50.363	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.720%	
35) Dibromofluoromethane	8.177	113	282833	55.205	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.420%	
50) Toluene-d8	10.571	98	898532	46.425	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 92.860%	
62) 4-Bromofluorobenzene	12.853	95	298355	50.047	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.100%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1718	0.308	ug/l	98
5) Bromomethane	2.977	94	3007	Below Cal	#	80
6) Chloroethane	3.118	64	676	Below Cal	#	64
12) 1,1-Dichloroethene	4.348	96	61323	13.869	ug/l	90
16) Acetone	4.442	43	1796	1.026	ug/l #	40
17) Carbon Disulfide	4.730	76	3249	0.254	ug/l #	71
20) Methylene Chloride	5.295	84	590	Below Cal	#	71
21) trans-1,2-Dichloroethene	5.800	96	2107	0.423	ug/l #	64
24) 1,1-Dichloroethane	6.565	63	13736	1.507	ug/l	97
25) 2-Butanone	7.512	43	989	0.359	ug/l	97
27) cis-1,2-Dichloroethene	7.494	96	71127	12.340	ug/l	96
29) Tetrahydrofuran	7.871	42	732	0.405	ug/l #	35
31) Cyclohexane	8.235	56	9202	1.212	ug/l #	37
36) 1,1-Dichloropropene	8.235	75	34307	4.638	ug/l #	48
38) Carbon Tetrachloride	8.230	117	44425	5.525	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	7344	0.985	ug/l	96
44) Trichloroethene	9.365	130	61950	10.488	ug/l	88
49) 1,4-Dioxane	9.718	88	1398	13.629	ug/l #	57
51) 4-Methyl-2-Pentanone	10.453	43	3160	0.523	ug/l #	85
52) Toluene	10.635	92	743730	54.755	ug/l	95
59) 2-Hexanone	11.212	43	1161	0.271	ug/l #	19
75) 1,1,2,2-Tetrachloroethane	12.947	83	329	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.853	75	161729	27.427	ug/l #	1
77) Bromobenzene	12.994	156	118	Below Cal	#	60
81) trans-1,4-Dichloro-2-b...	12.853	75	161729	72.072	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.723	75	189	Below Cal	#	4
94) Hexachlorobutadiene	15.506	225	83	Below Cal	#	1
95) Naphthalene	15.647	128	2286	0.239	ug/l #	73

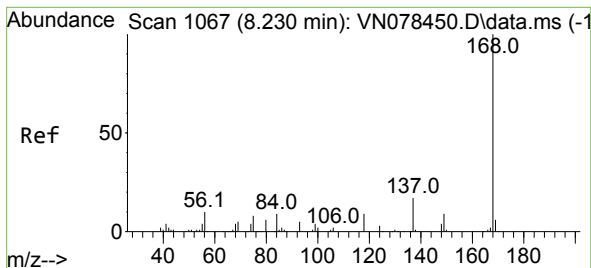
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072123\
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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: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

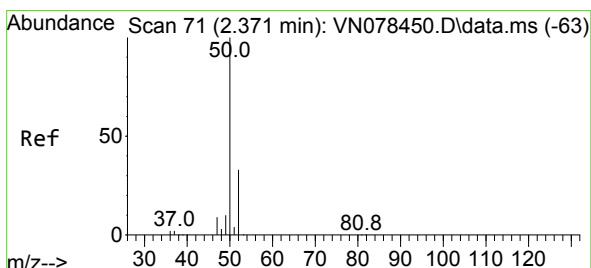
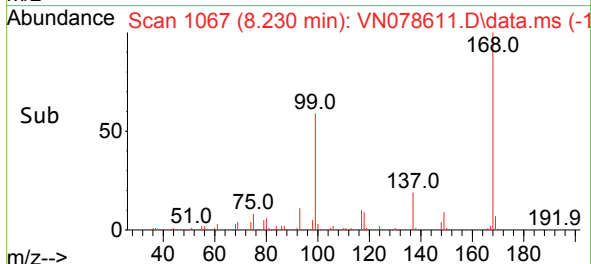
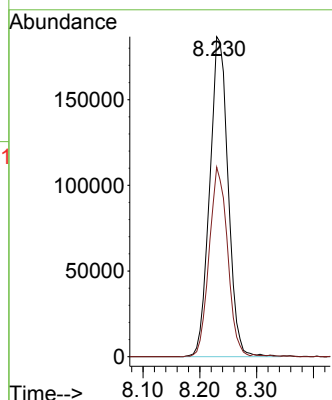
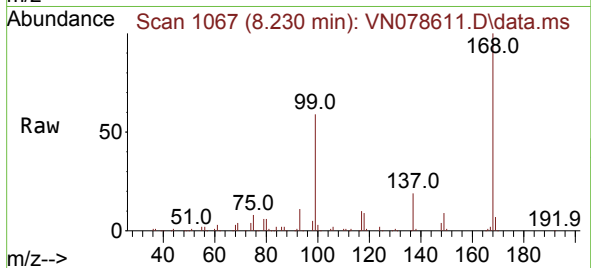
GWBR-04-400-415-072023

Tgt Ion:168 Resp: 419023

Ion Ratio Lower Upper

168 100

99 59.3 53.0 79.6



#3

Chloromethane

Concen: 0.308 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078611.D

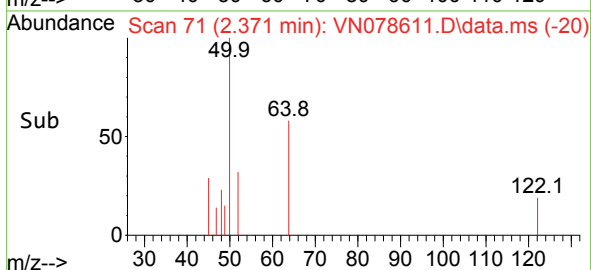
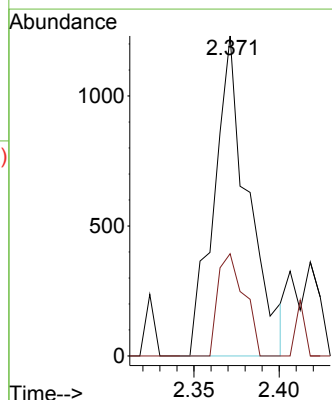
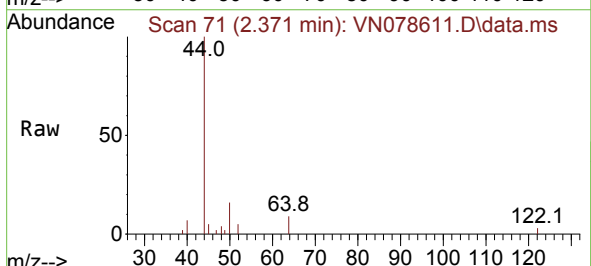
Acq: 21 Jul 2023 14:11

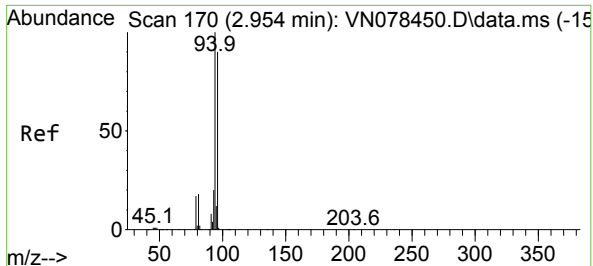
Tgt Ion: 50 Resp: 1718

Ion Ratio Lower Upper

50 100

52 31.9 26.5 39.7





#5

Bromomethane

Concen: Below Cal

RT: 2.977 min Scan# 11

Delta R.T. 0.023 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

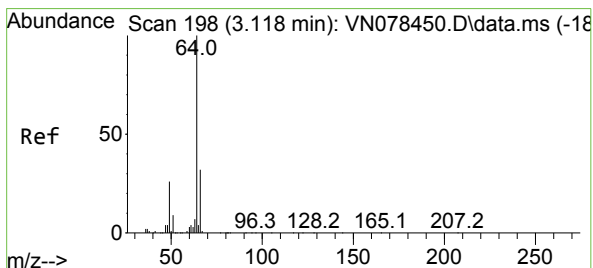
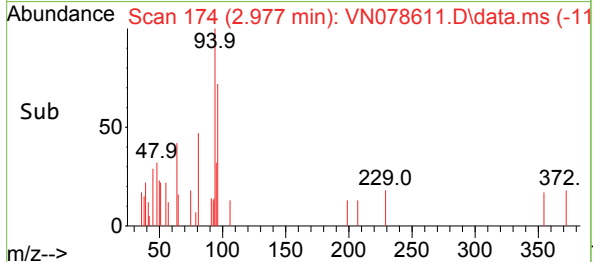
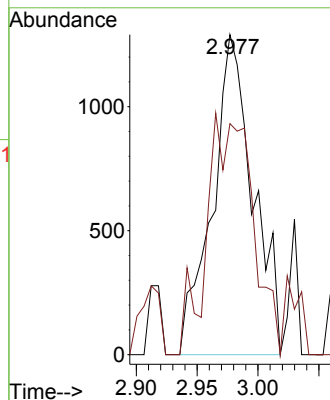
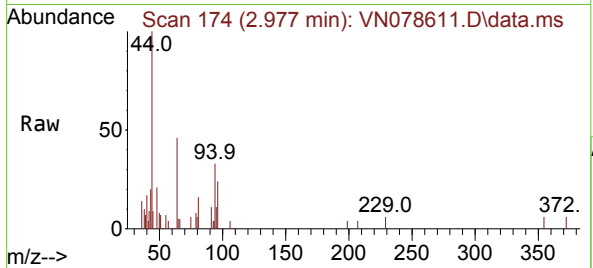
GWBR-04-400-415-072023

Tgt Ion: 94 Resp: 3007

Ion Ratio Lower Upper

94 100

96 72.2 73.1 109.7#



#6

Chloroethane

Concen: Below Cal

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN078611.D

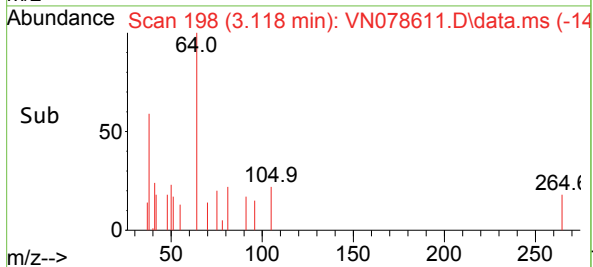
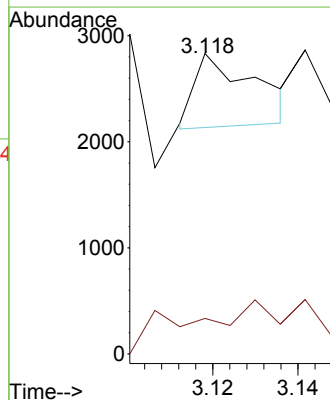
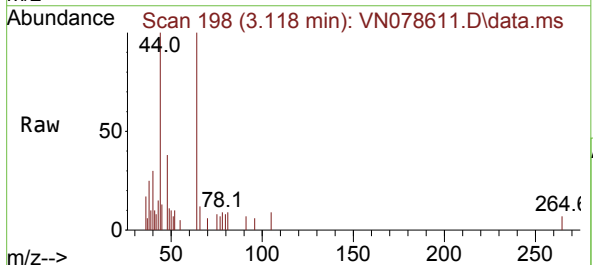
Acq: 21 Jul 2023 14:11

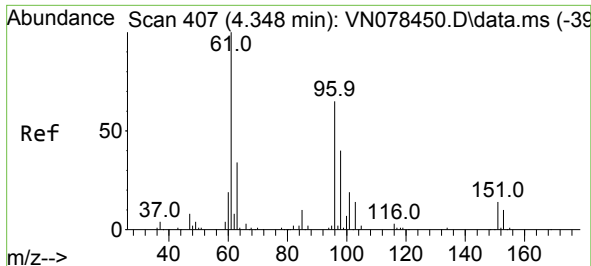
Tgt Ion: 64 Resp: 676

Ion Ratio Lower Upper

64 100

66 12.0 25.4 38.2#

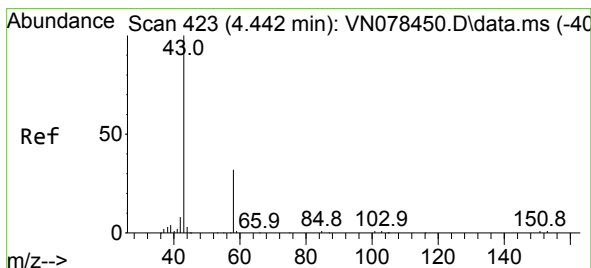
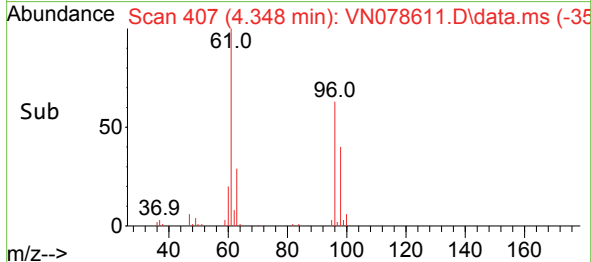
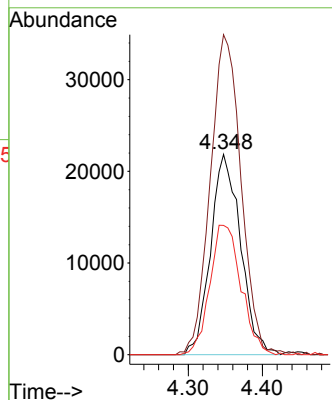
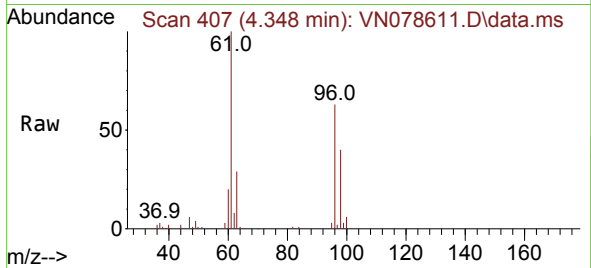




#12
1,1-Dichloroethene
Concen: 13.869 ug/l
RT: 4.348 min Scan# 407
Delta R.T. -0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

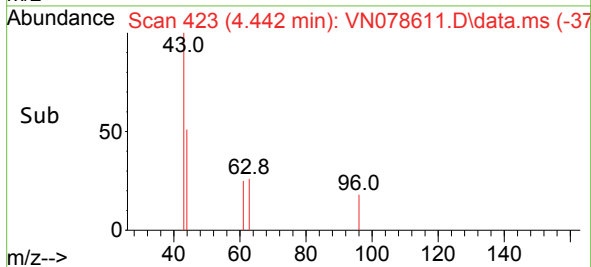
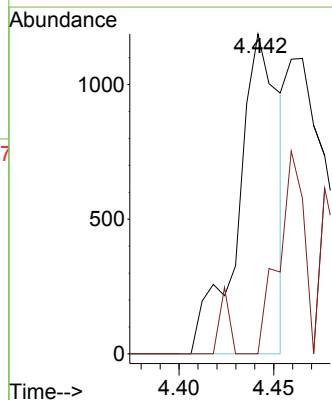
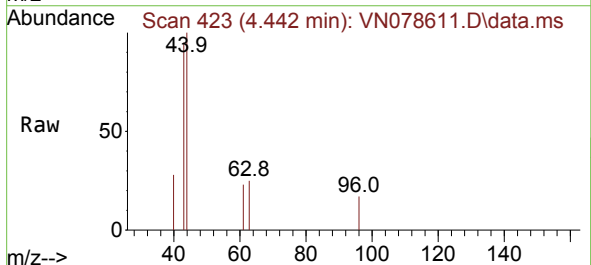
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-400-415-072023

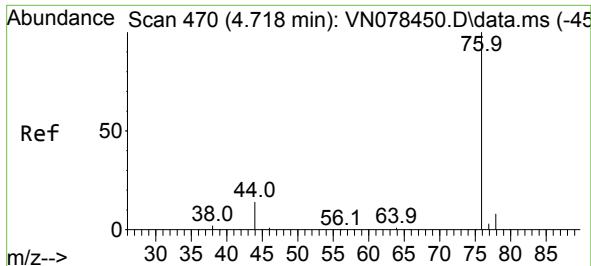
Tgt Ion: 96 Resp: 61323
Ion Ratio Lower Upper
96 100
61 158.2 112.7 169.1
98 64.5 51.2 76.8



#16
Acetone
Concen: 1.026 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Tgt Ion: 43 Resp: 1796
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#





#17

Carbon Disulfide

Concen: 0.254 ug/l

RT: 4.730 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN078611.D

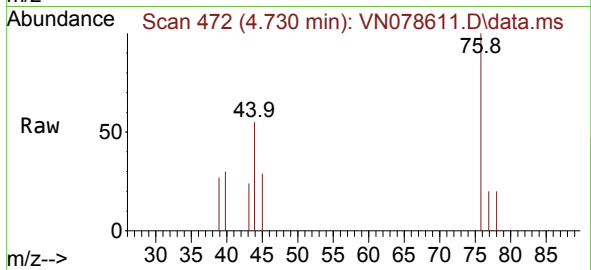
Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-400-415-072023

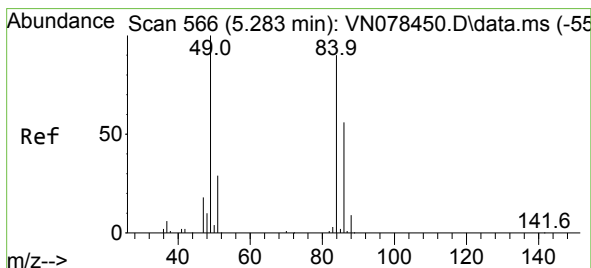
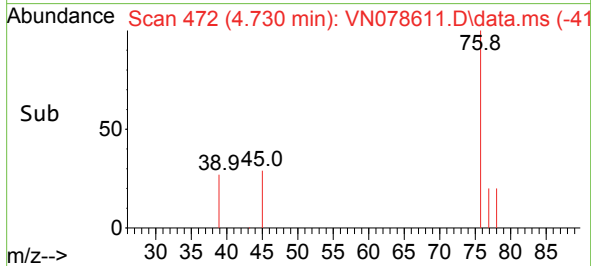
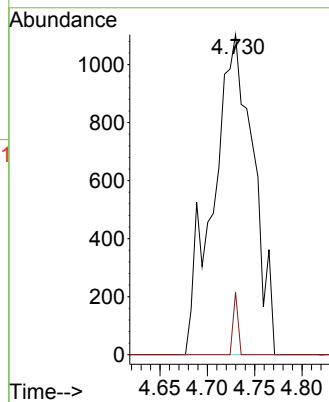


Tgt Ion: 76 Resp: 3249

Ion Ratio Lower Upper

76 100

78 19.6 7.4 11.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.295 min Scan# 568

Delta R.T. 0.011 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

Tgt Ion: 84 Resp: 590

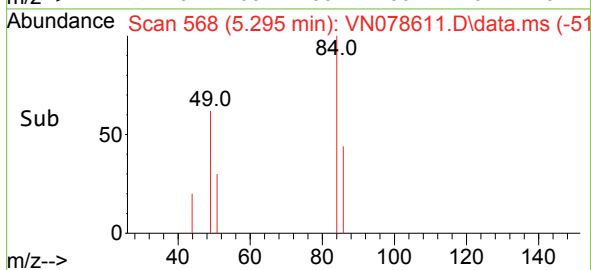
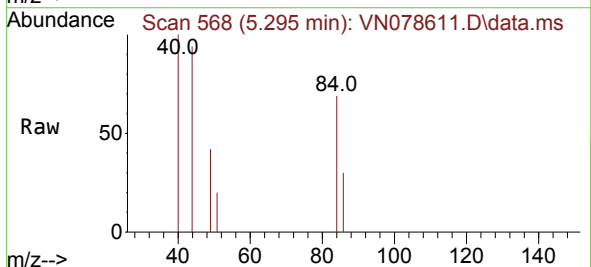
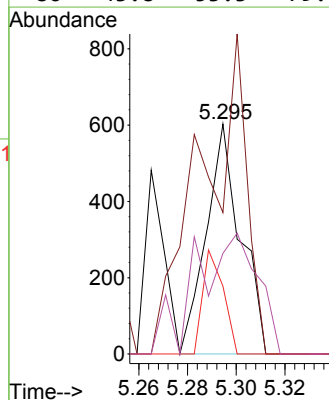
Ion Ratio Lower Upper

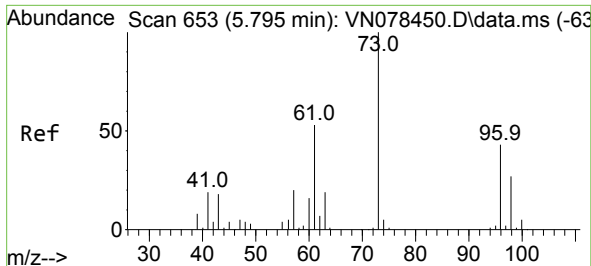
84 100

49 61.5 79.7 119.5#

51 29.5 25.2 37.8

86 43.8 53.3 79.9#

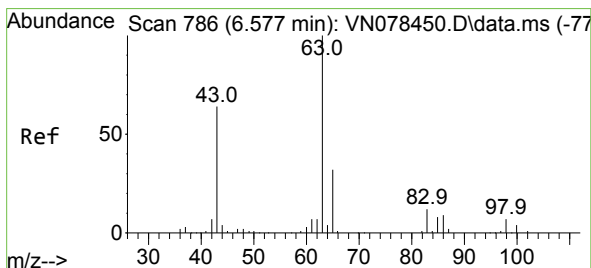
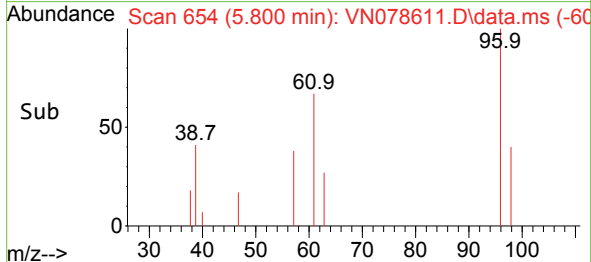
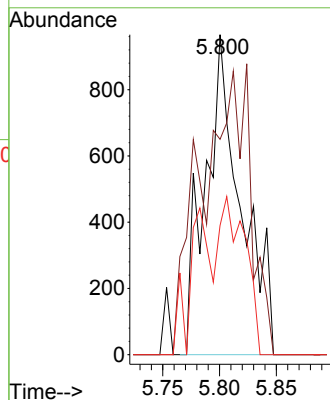
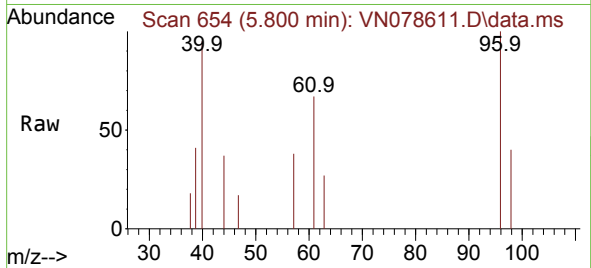




#21
trans-1,2-Dichloroethene
Concen: 0.423 ug/l
RT: 5.800 min Scan# 611
Delta R.T. 0.005 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

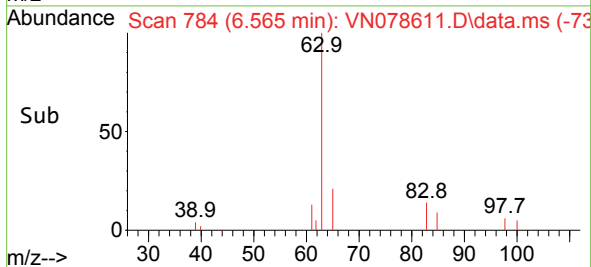
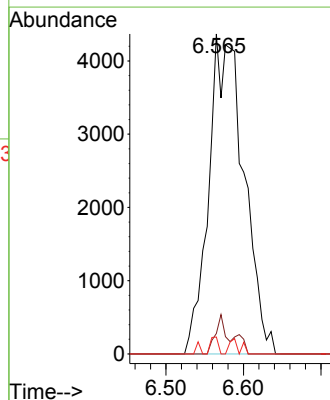
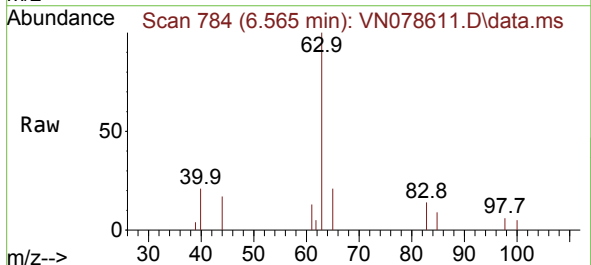
Instrument :
MSVOA_N
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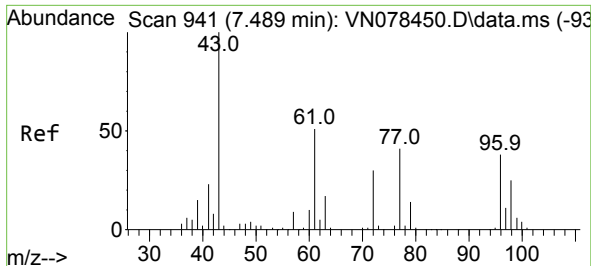
Tgt Ion: 96 Resp: 2107
Ion Ratio Lower Upper
96 100
61 67.3 90.1 135.1#
98 40.4 46.4 69.6#



#24
1,1-Dichloroethane
Concen: 1.507 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.012 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Tgt Ion: 63 Resp: 13736
Ion Ratio Lower Upper
63 100
98 6.4 3.9 11.7
100 5.3 2.5 7.4





#25

2-Butanone

Concen: 0.359 ug/l

RT: 7.512 min Scan# 941

Delta R.T. 0.023 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

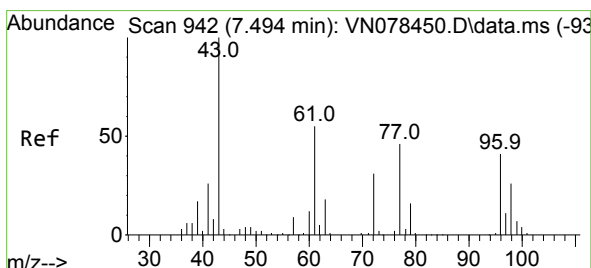
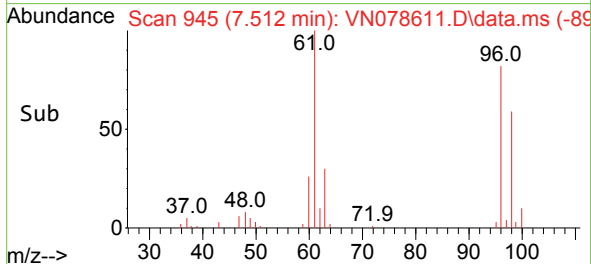
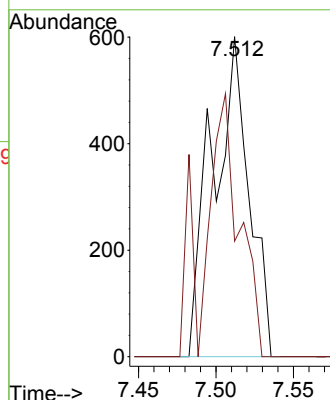
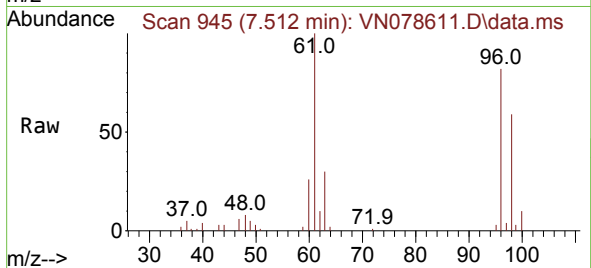
GWBR-04-400-415-072023

Tgt Ion: 43 Resp: 989

Ion Ratio Lower Upper

43 100

72 36.1 30.2 45.2



#27

cis-1,2-Dichloroethene

Concen: 12.340 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.000 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

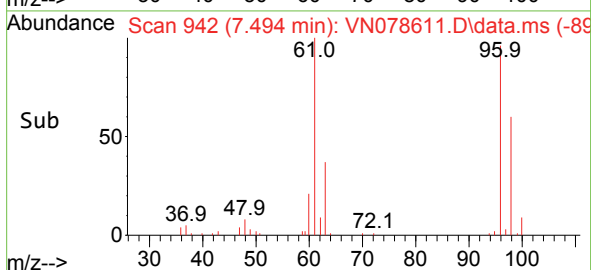
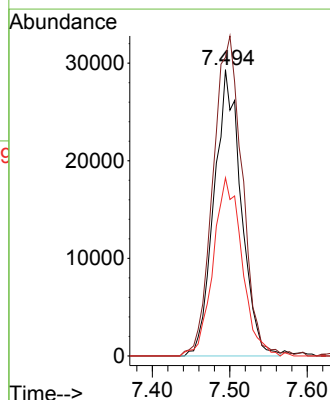
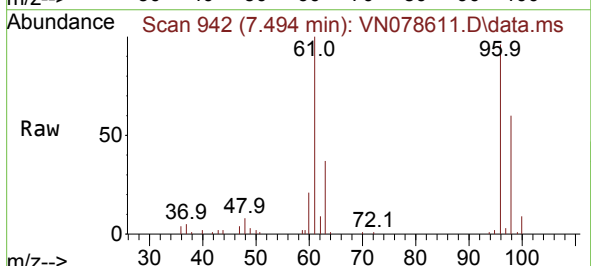
Tgt Ion: 96 Resp: 71127

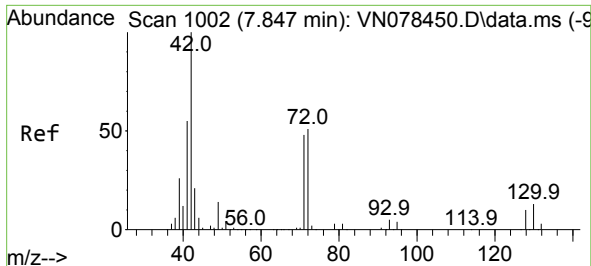
Ion Ratio Lower Upper

96 100

61 121.6 0.0 255.2

98 66.3 0.0 128.8

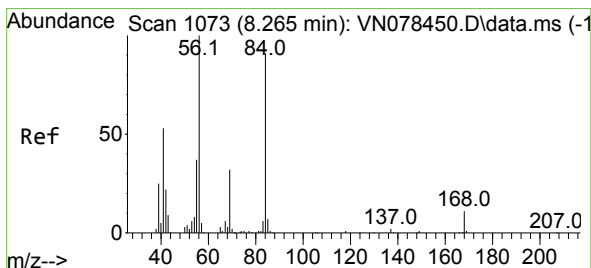
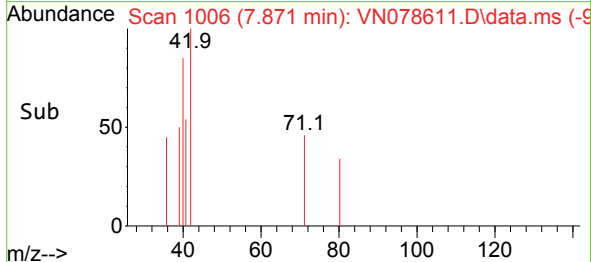
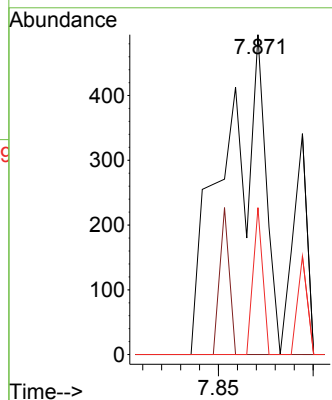
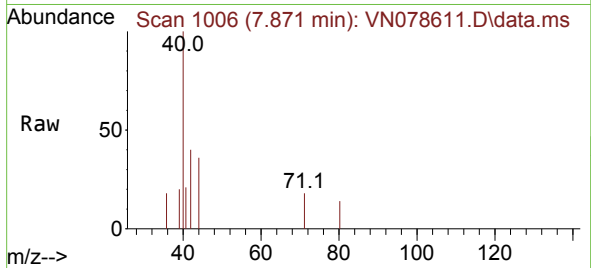




#29
Tetrahydrofuran
Concen: 0.405 ug/l
RT: 7.871 min Scan# 1006
Delta R.T. 0.024 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

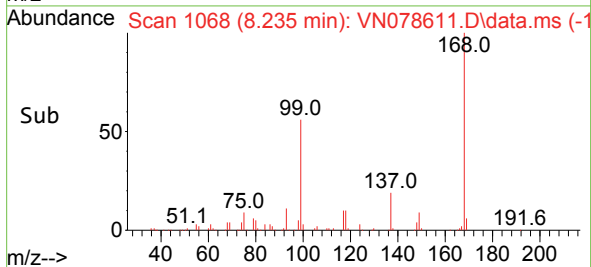
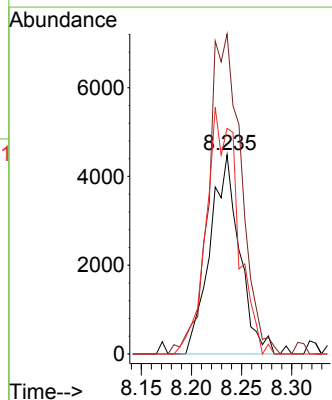
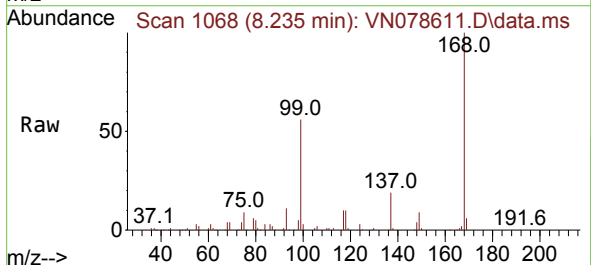
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-400-415-072023

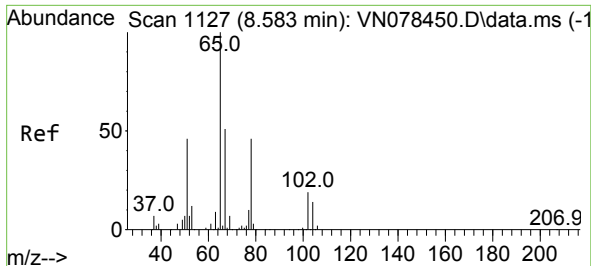
Tgt Ion: 42 Resp: 732
Ion Ratio Lower Upper
42 100
72 10.9 49.8 74.6#
71 10.9 47.4 71.2#



#31
Cyclohexane
Concen: 1.212 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Tgt Ion: 56 Resp: 9202
Ion Ratio Lower Upper
56 100
69 160.6 26.8 40.2#
84 113.2 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 50.363 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

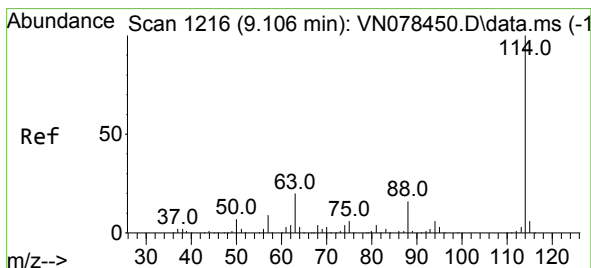
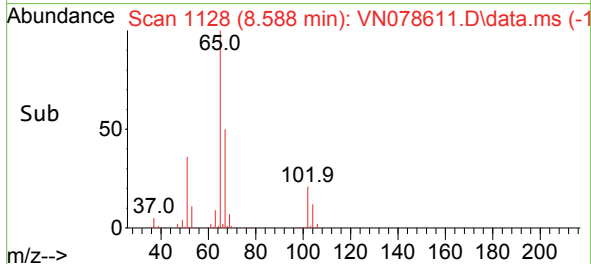
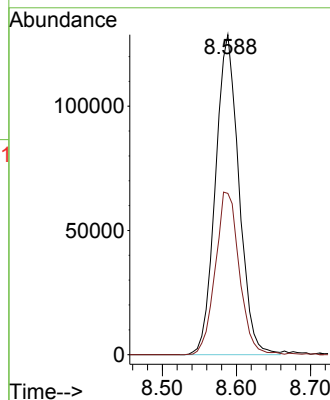
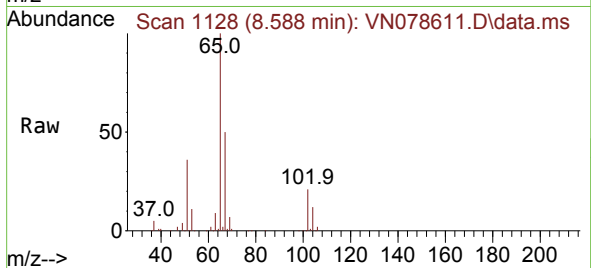
GWBR-04-400-415-072023

Tgt Ion: 65 Resp: 282909

Ion Ratio Lower Upper

65 100

67 52.1 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: VN078611.D

Acq: 21 Jul 2023 14:11

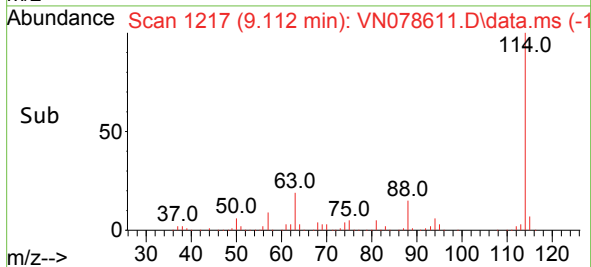
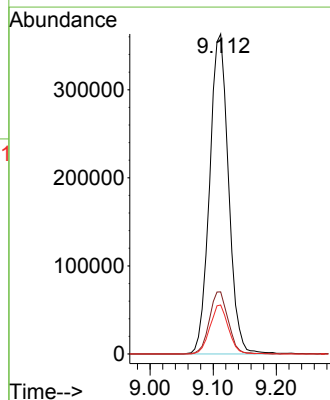
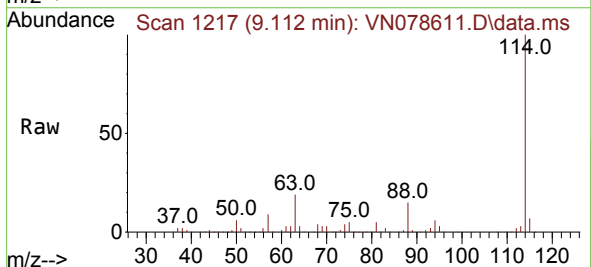
Tgt Ion: 114 Resp: 754724

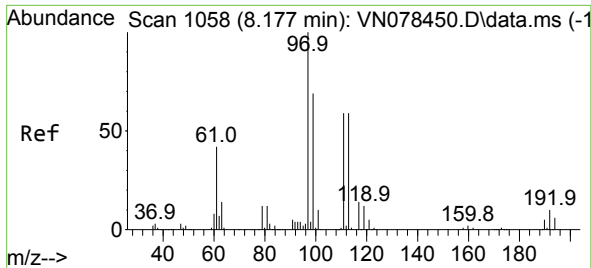
Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.4

88 15.3 0.0 30.6

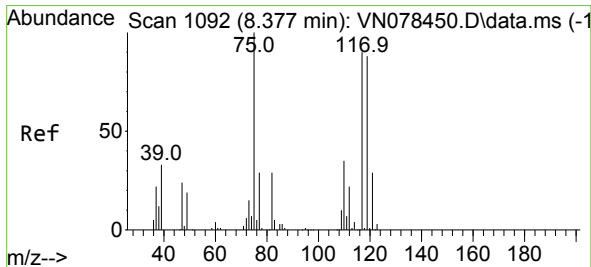
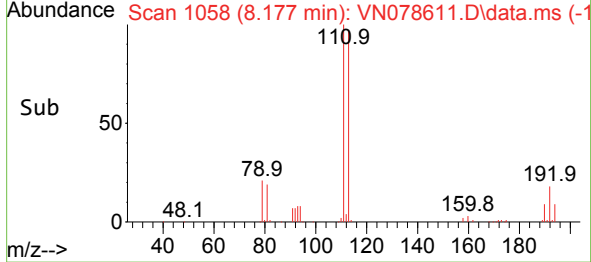
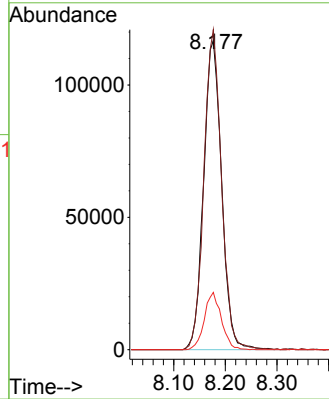
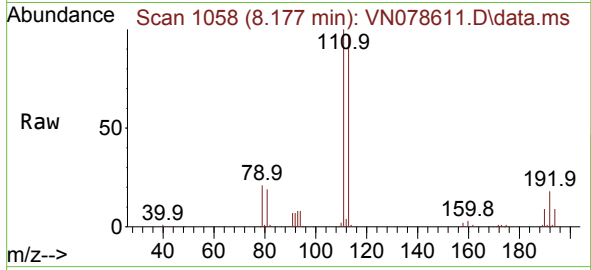




#35
Dibromofluoromethane
Concen: 55.205 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

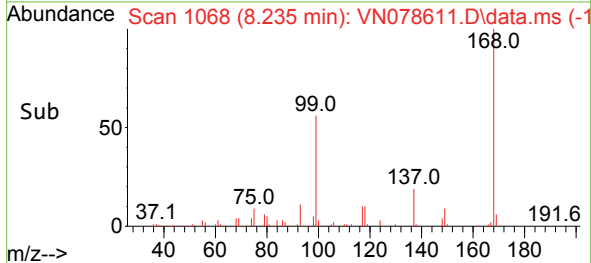
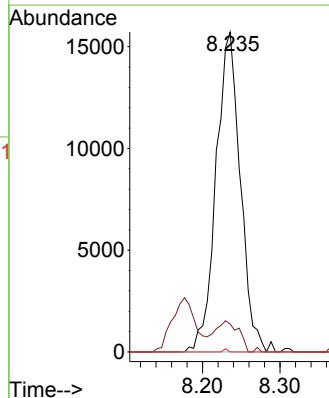
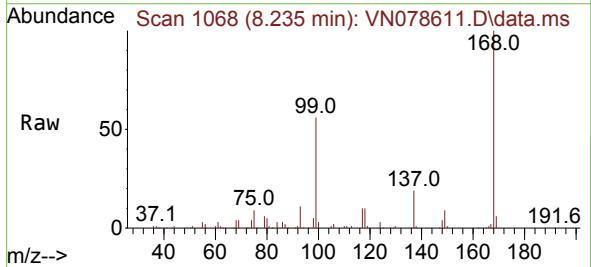
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-400-415-072023

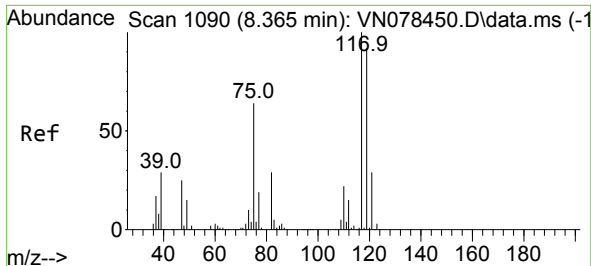
Tgt Ion:113 Resp: 282833
Ion Ratio Lower Upper
113 100
111 101.0 82.6 123.8
192 17.5 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.638 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

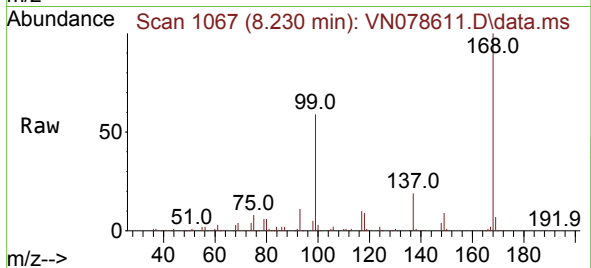
Tgt Ion: 75 Resp: 34307
Ion Ratio Lower Upper
75 100
110 9.4 19.1 57.3#
77 0.2 25.0 37.4#



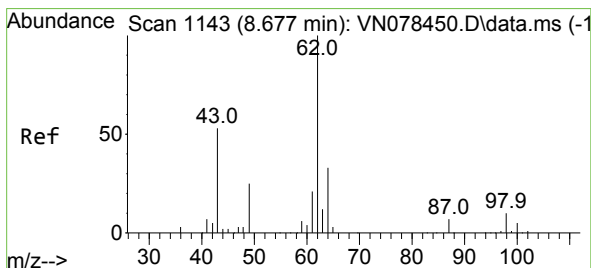
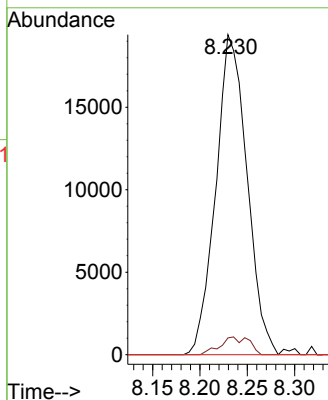
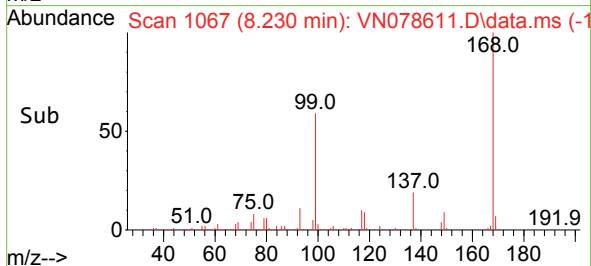


#38
Carbon Tetrachloride
Concen: 5.525 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-400-415-072023

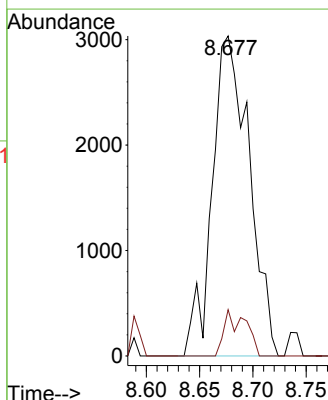
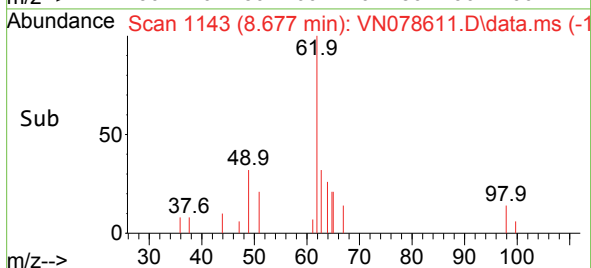
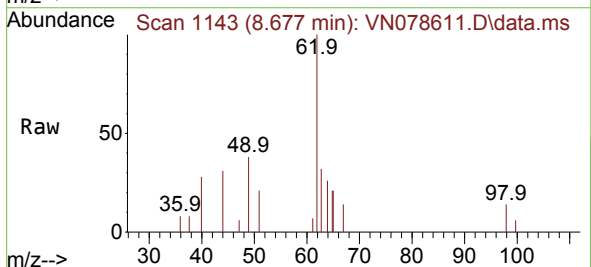


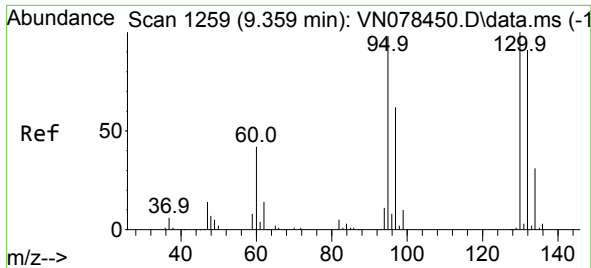
Tgt Ion:117 Resp: 44425
Ion Ratio Lower Upper
117 100
119 5.2 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.985 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Tgt Ion: 62 Resp: 7344
Ion Ratio Lower Upper
62 100
98 8.3 0.0 19.8

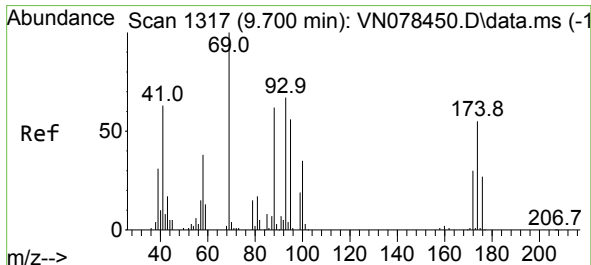
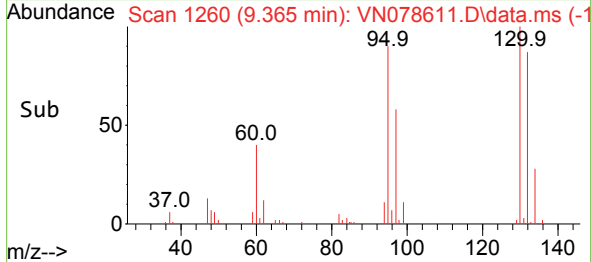
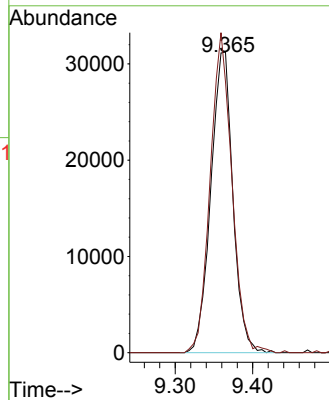
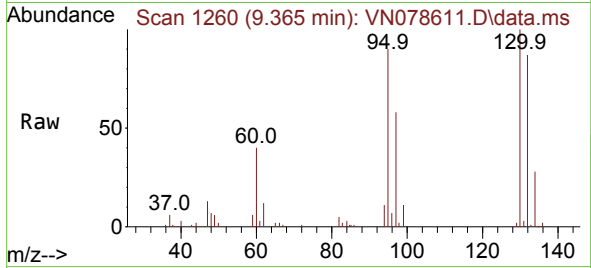




#44
Trichloroethene
Concen: 10.488 ug/l
RT: 9.365 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

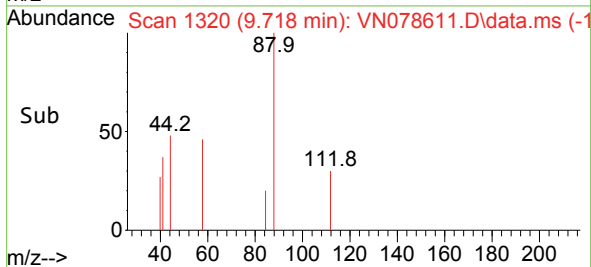
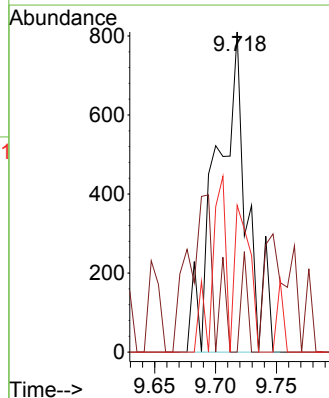
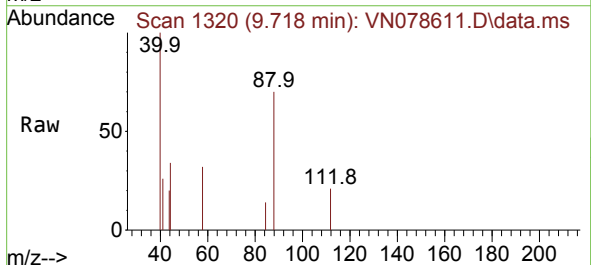
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-400-415-072023

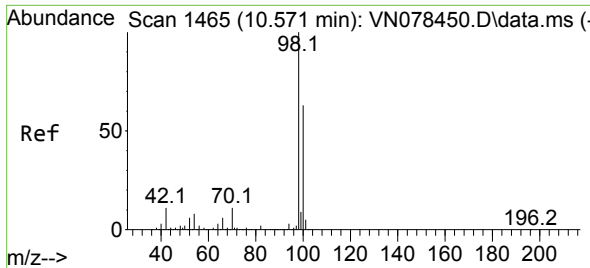
Tgt Ion:130 Resp: 61950
Ion Ratio Lower Upper
130 100
95 90.2 0.0 204.6



#49
1,4-Dioxane
Concen: 13.629 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.018 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Tgt Ion: 88 Resp: 1398
Ion Ratio Lower Upper
88 100
43 6.4 17.0 25.6#
58 23.4 47.0 70.4#

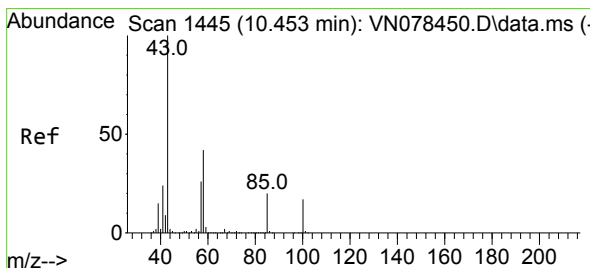
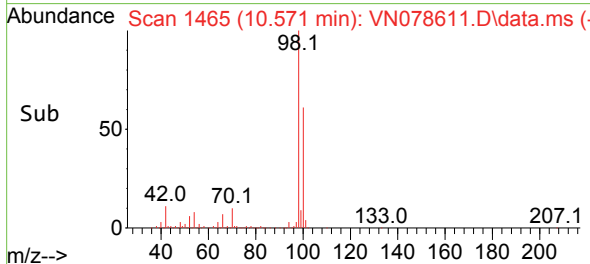
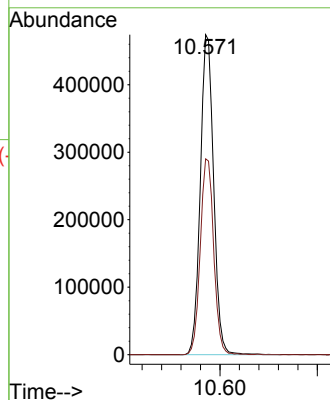
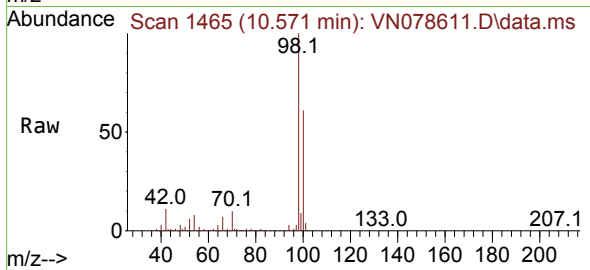




#50
Toluene-d8
Concen: 46.425 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

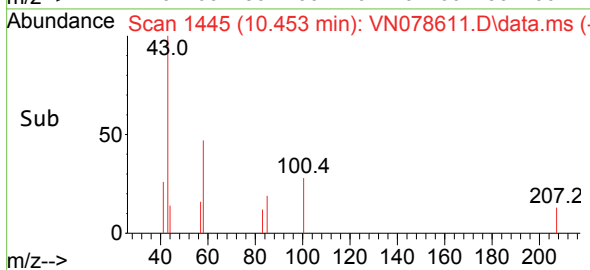
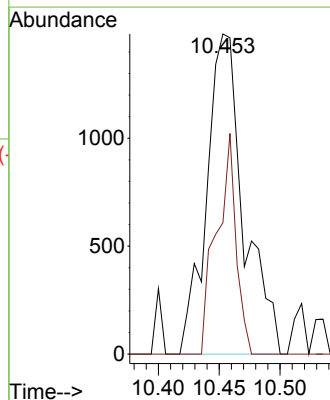
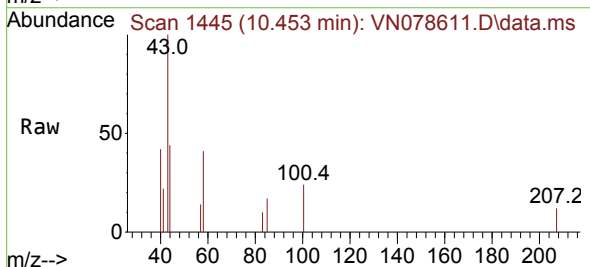
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-400-415-072023

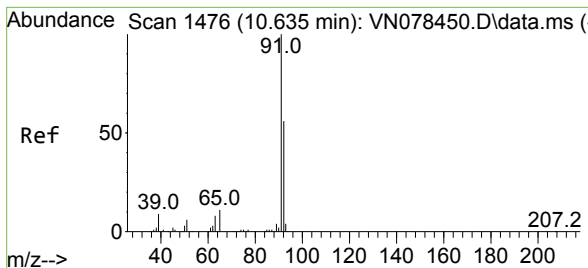
Tgt Ion: 98 Resp: 898532
Ion Ratio Lower Upper
98 100
100 61.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.523 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Tgt Ion: 43 Resp: 3160
Ion Ratio Lower Upper
43 100
58 36.1 36.6 54.8#





#52

Toluene

Concen: 54.755 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

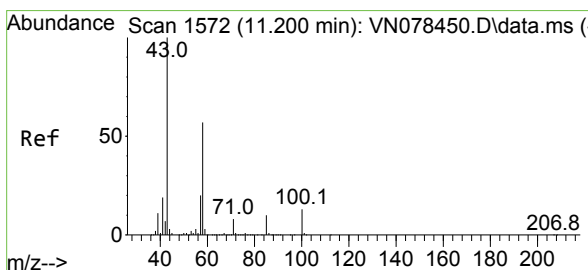
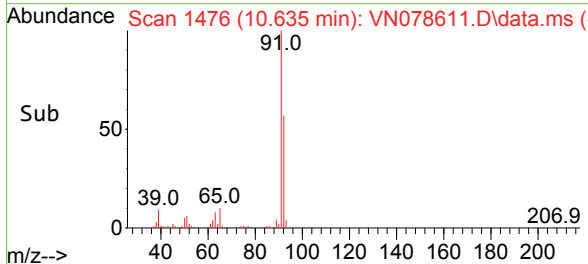
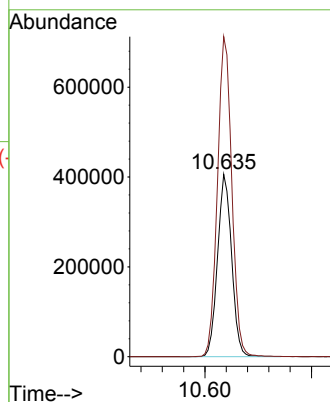
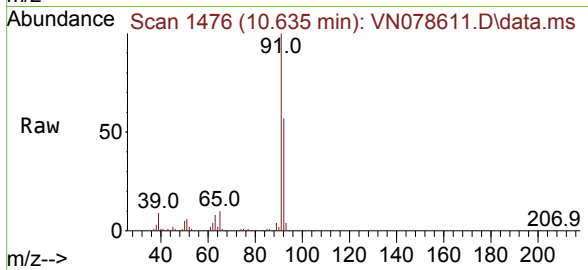
GWBR-04-400-415-072023

Tgt Ion: 92 Resp: 743730

Ion Ratio Lower Upper

92 100

91 179.2 137.4 206.0



#59

2-Hexanone

Concen: 0.271 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN078611.D

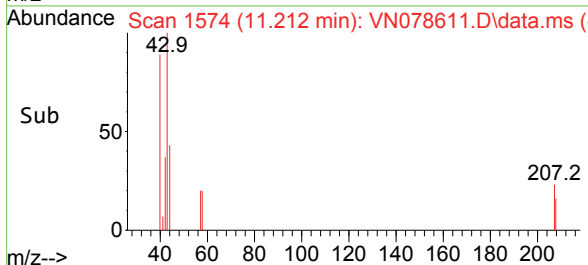
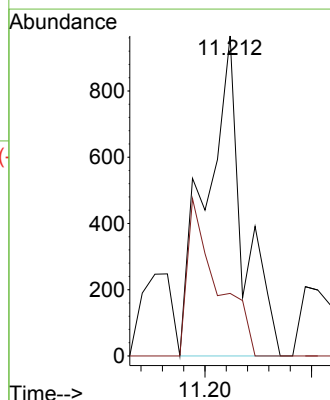
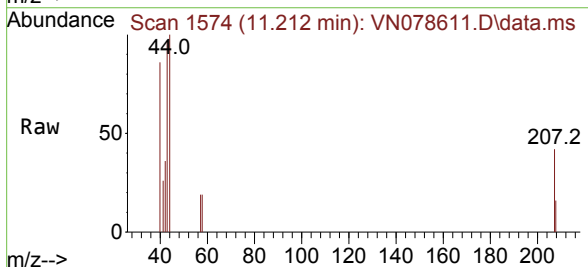
Acq: 21 Jul 2023 14:11

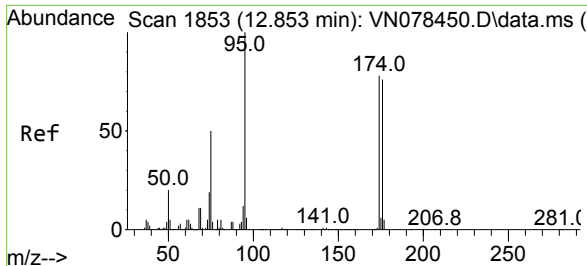
Tgt Ion: 43 Resp: 1161

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

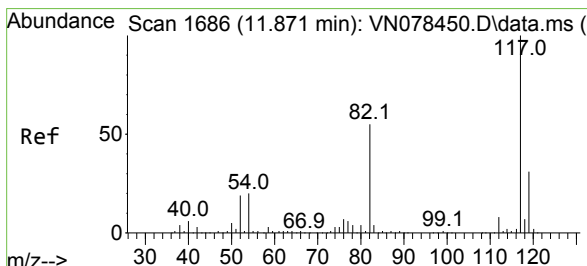
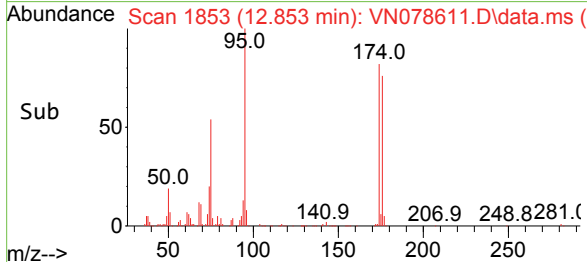
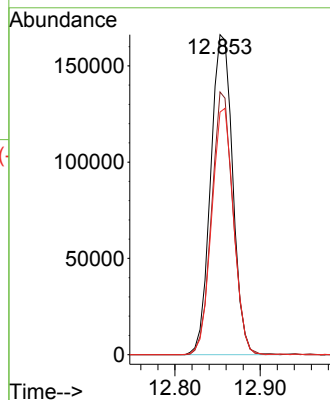
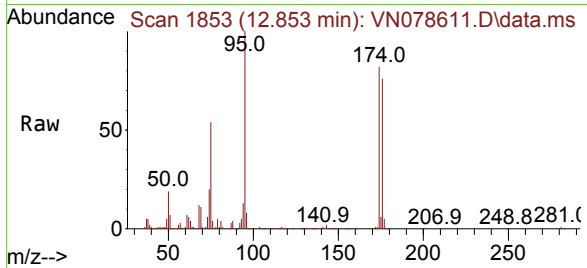




#62
4-Bromofluorobenzene
Concen: 50.047 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

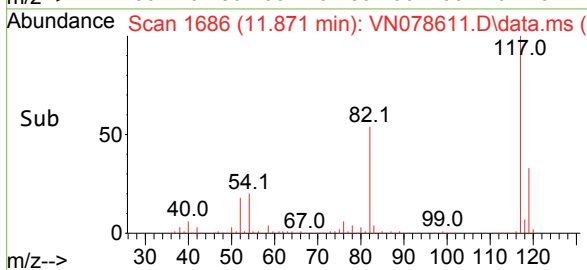
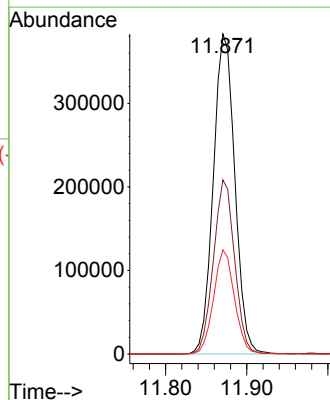
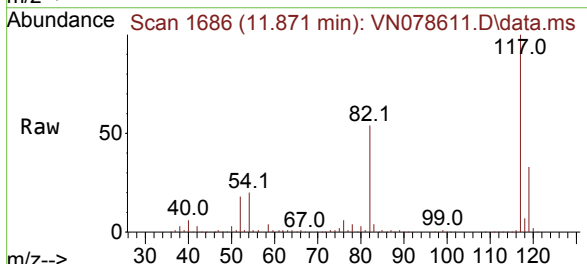
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-400-415-072023

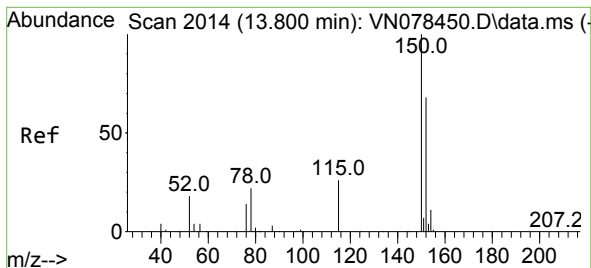
Tgt Ion: 95 Resp: 298355
Ion Ratio Lower Upper
95 100
174 79.8 0.0 143.8
176 76.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Tgt Ion: 117 Resp: 706281
Ion Ratio Lower Upper
117 100
82 54.4 44.0 66.0
119 32.6 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2014

Delta R.T. -0.006 min

Lab File: VN078611.D

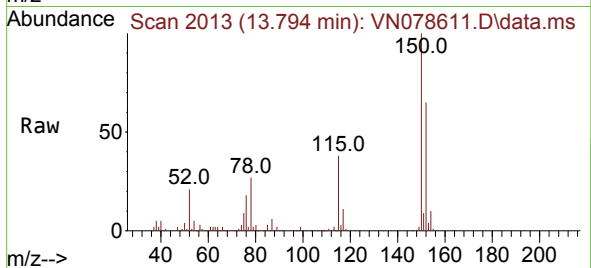
Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-400-415-072023



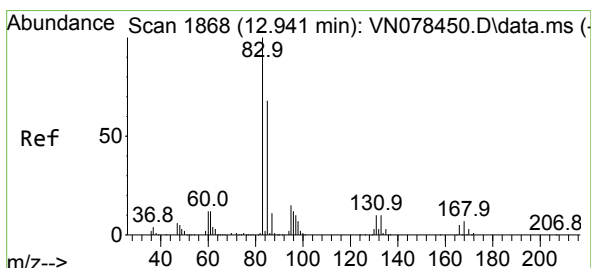
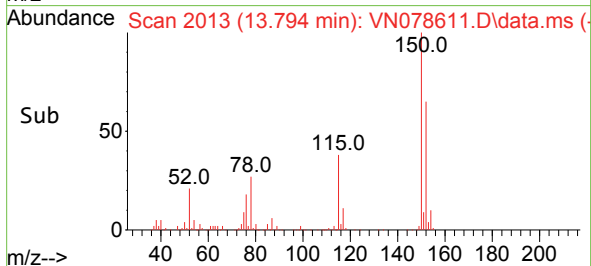
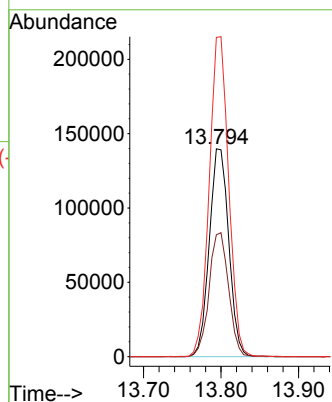
Tgt Ion:152 Resp: 243958

Ion Ratio Lower Upper

152 100

115 59.8 32.3 96.8

150 153.6 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

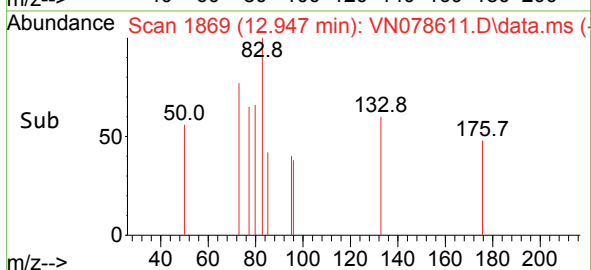
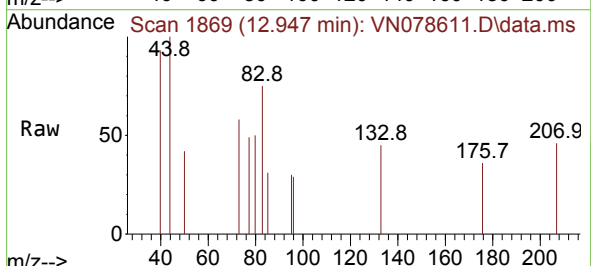
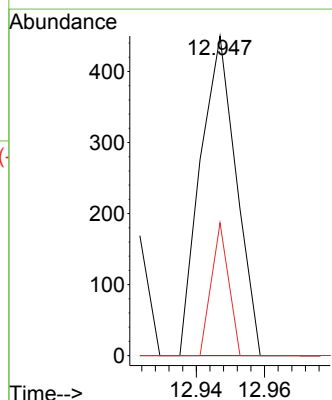
Tgt Ion: 83 Resp: 329

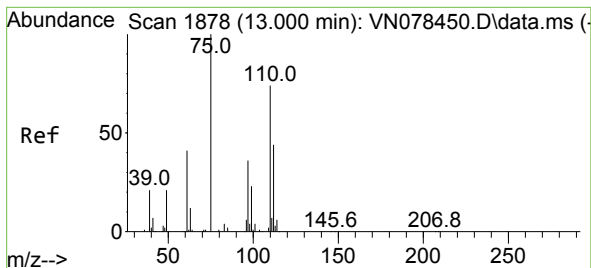
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 20.1 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 27.427 ug/l

RT: 12.853 min Scan# 11

Delta R.T. -0.147 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

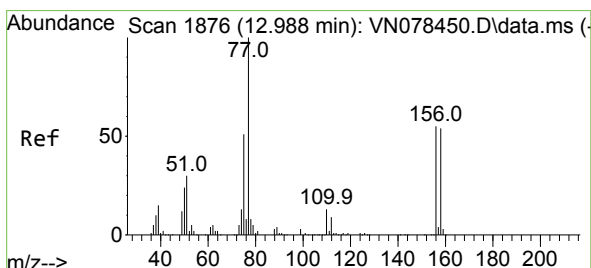
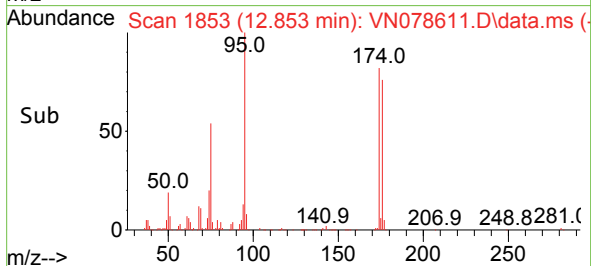
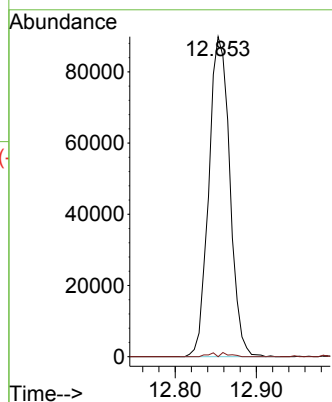
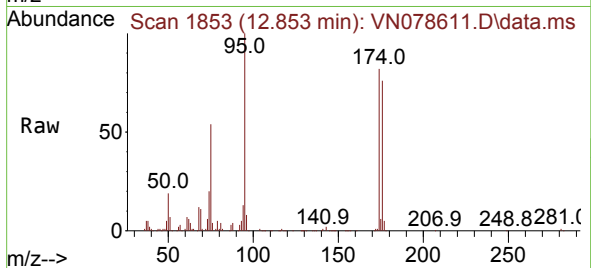
GWBR-04-400-415-072023

Tgt Ion: 75 Resp: 161729

Ion Ratio Lower Upper

75 100

77 0.6 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.994 min Scan# 1877

Delta R.T. 0.006 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

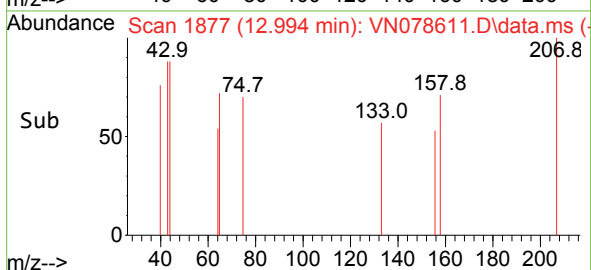
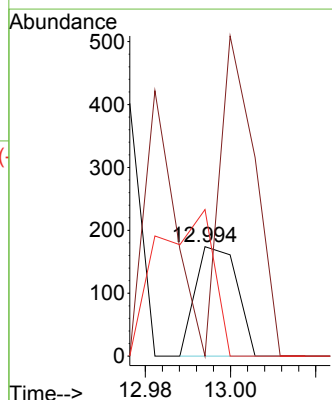
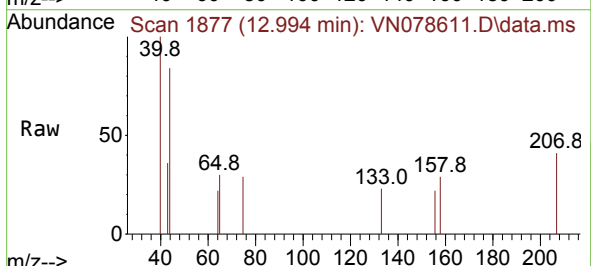
Tgt Ion:156 Resp: 118

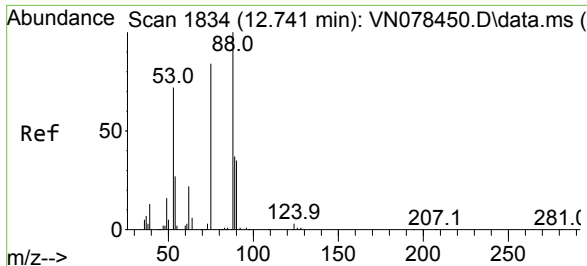
Ion Ratio Lower Upper

156 100

77 246.6 107.7 323.3

158 179.7 48.4 145.3#

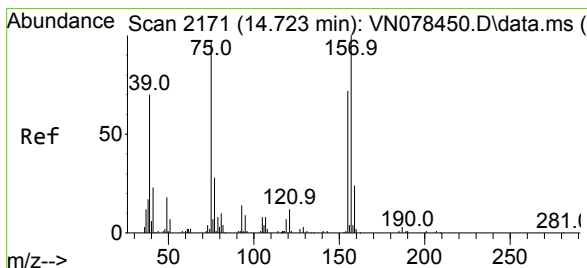
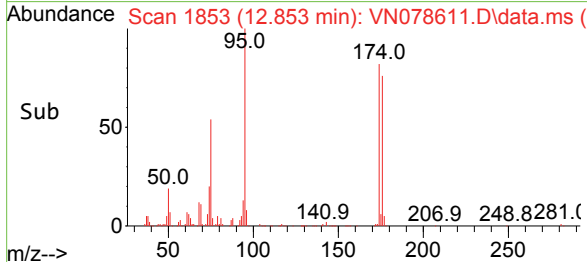
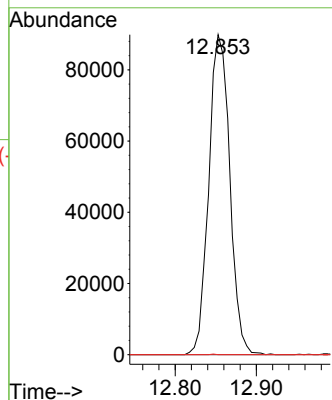
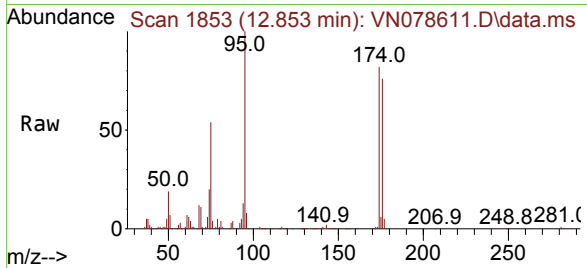




#81
trans-1,4-Dichloro-2-butene
Concen: 72.072 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

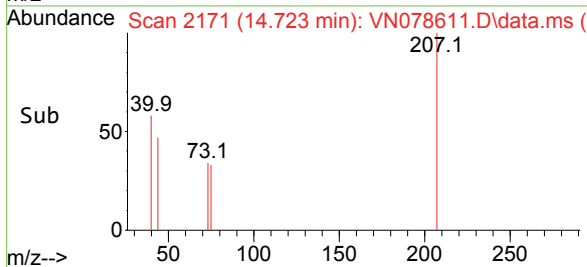
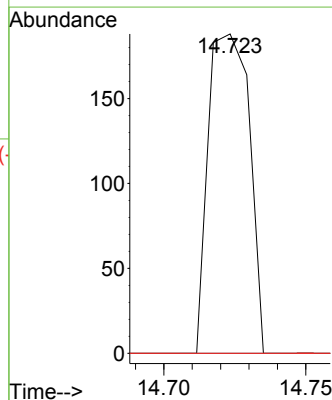
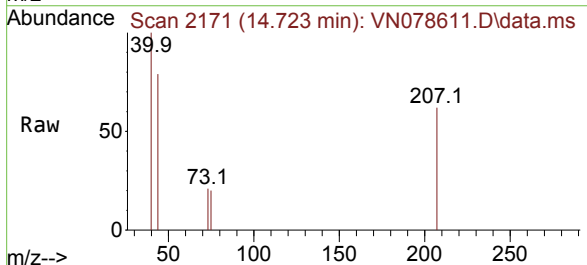
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-400-415-072023

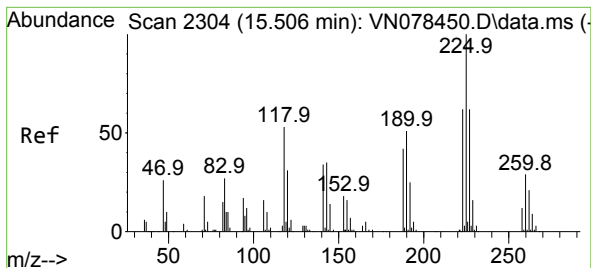
Tgt Ion: 75 Resp: 161729
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078611.D
Acq: 21 Jul 2023 14:11

Tgt Ion: 75 Resp: 189
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: 15.506 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078611.D

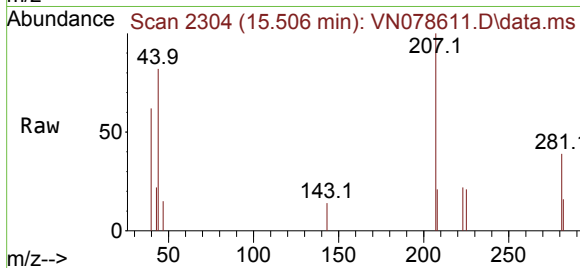
Acq: 21 Jul 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-400-415-072023



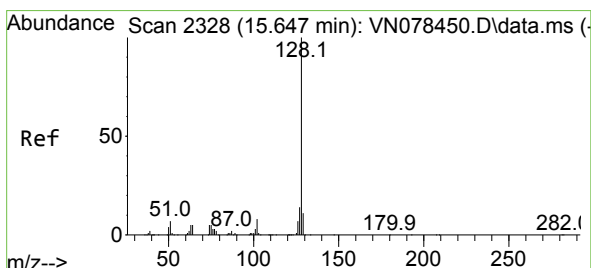
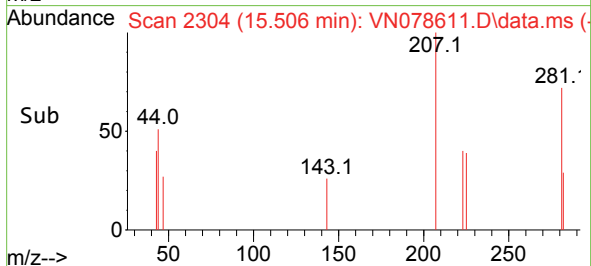
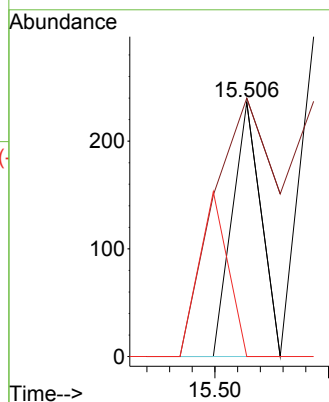
Tgt Ion:225 Resp: 83

Ion Ratio Lower Upper

225 100

223 331.3 31.3 93.8#

227 65.1 31.9 95.9



#95

Naphthalene

Concen: 0.239 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. -0.000 min

Lab File: VN078611.D

Acq: 21 Jul 2023 14:11

Tgt Ion:128 Resp: 2286

Ion Ratio Lower Upper

128 100

127 2.3 10.0 15.0#

129 0.0 8.7 13.1#

