

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
 Data File : VN078529.D
 Acq On : 14 Jul 2023 18:02
 Operator : JC\MD
 Sample : 03635-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWBR-04-359-374-071423

Quant Time: Jul 15 04:05:41 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)

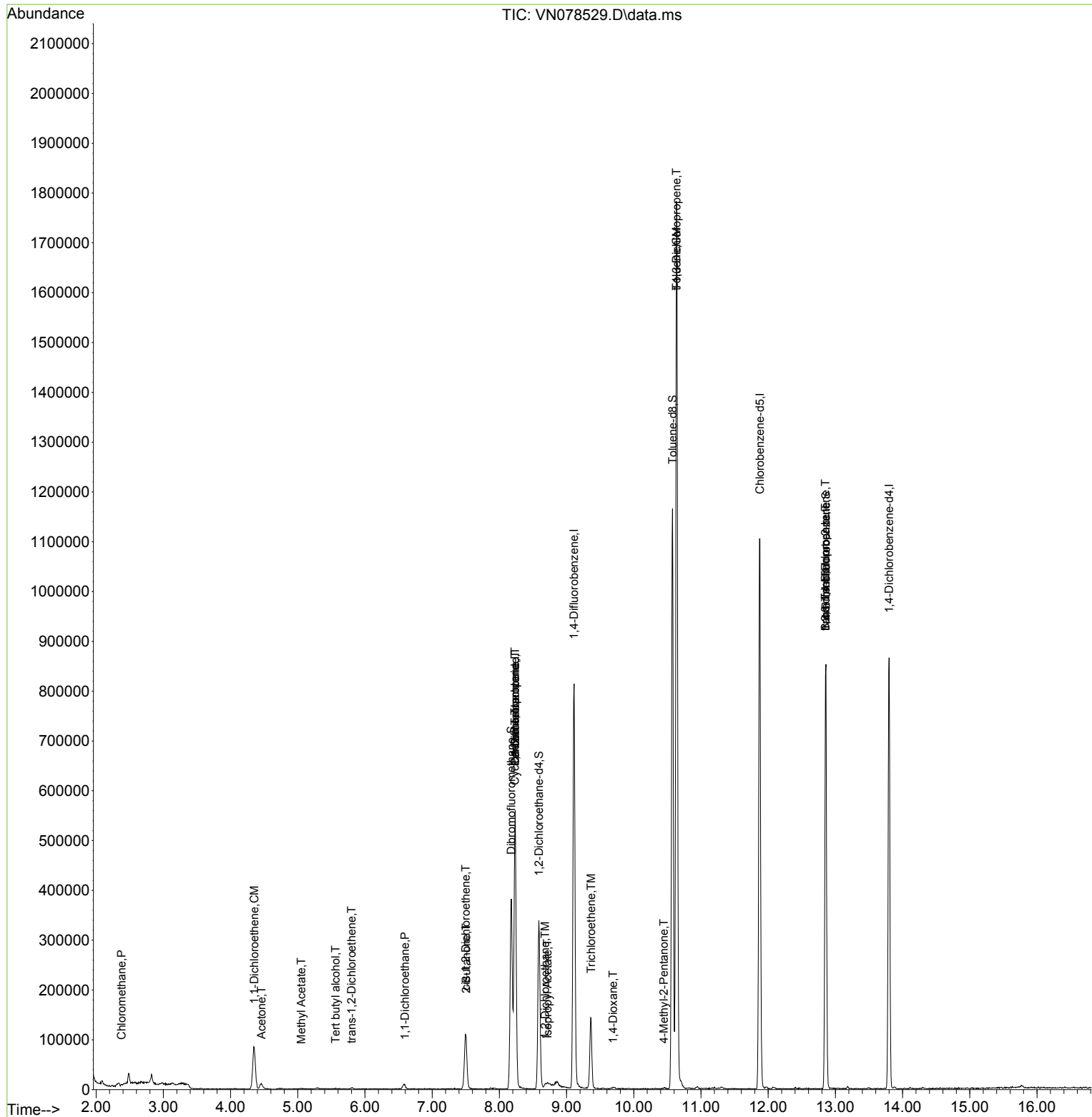
Internal Standards						
1) Pentafluorobenzene	8.235	168	403573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	719746	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.876	117	683933	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	245646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	272043	50.282	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.560%			
35) Dibromofluoromethane	8.177	113	272818	55.838	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.680%			
50) Toluene-d8	10.576	98	841570	45.595	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.200%			
62) 4-Bromofluorobenzene	12.859	95	300081	52.782	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.560%			
Target Compounds					Qvalue	
3) Chloromethane	2.377	50	1532	0.285	ug/l	97
5) Bromomethane	2.971	94	2050	Below Cal	#	50
6) Chloroethane	3.124	64	1654	Below Cal		93
11) Tert butyl alcohol	5.565	59	235	0.282	ug/l #	72
12) 1,1-Dichloroethene	4.353	96	51869	12.180	ug/l	89
16) Acetone	4.459	43	20538	12.186	ug/l #	83
18) Methyl Acetate	5.053	43	1976	0.277	ug/l #	42
20) Methylene Chloride	5.277	84	1769	Below Cal	#	48
21) trans-1,2-Dichloroethene	5.800	96	1305	0.272	ug/l #	57
24) 1,1-Dichloroethane	6.594	63	12743	1.451	ug/l	98
25) 2-Butanone	7.506	43	1972	0.743	ug/l #	36
27) cis-1,2-Dichloroethene	7.500	96	67577	12.173	ug/l	94
31) Cyclohexane	8.230	56	9063	1.240	ug/l #	45
36) 1,1-Dichloropropene	8.235	75	31481	4.462	ug/l #	50
38) Carbon Tetrachloride	8.235	117	42864	5.590	ug/l #	17
42) 1,2-Dichloroethane	8.682	62	7799	1.097	ug/l	97
43) Isopropyl Acetate	8.718	43	8876	0.917	ug/l #	49
44) Trichloroethene	9.365	130	52905	9.392	ug/l	99
49) 1,4-Dioxane	9.694	88	848	8.669	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	2272	0.395	ug/l #	75
52) Toluene	10.635	92	801976	61.912	ug/l	94
53) t-1,3-Dichloropropene	10.635	75	9938	1.299	ug/l #	1
71) Bromoform	12.853	173	2252	0.565	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.900	83	57	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	157889	26.592	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	157889	69.878	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.694	75	131	Below Cal	#	4

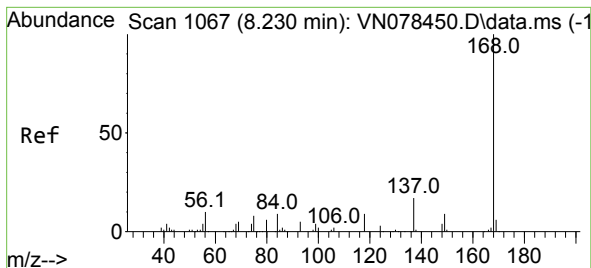
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
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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: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN078529.D

Acq: 14 Jul 2023 18:02

Instrument :

MSVOA_N

ClientSampleId :

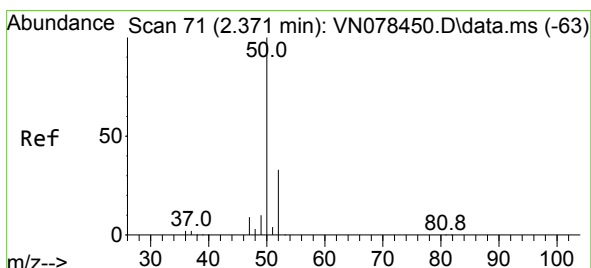
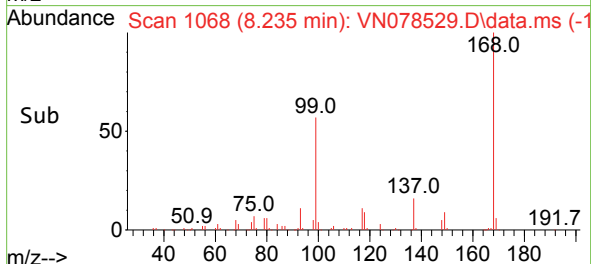
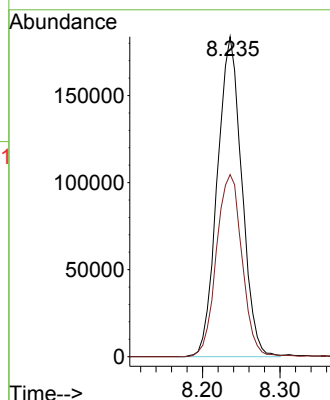
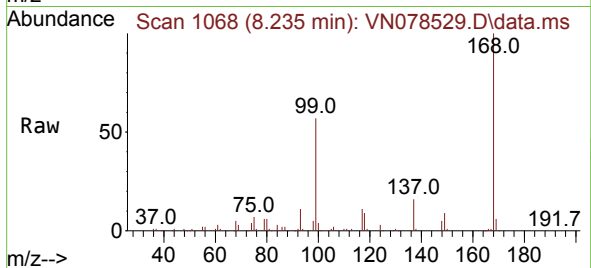
GWBR-04-359-374-071423

Tgt Ion:168 Resp: 403573

Ion Ratio Lower Upper

168 100

99 56.9 53.0 79.6



#3

Chloromethane

Concen: 0.285 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078529.D

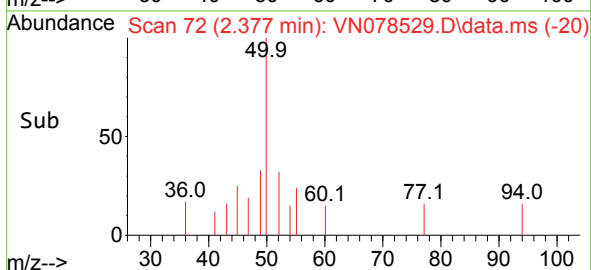
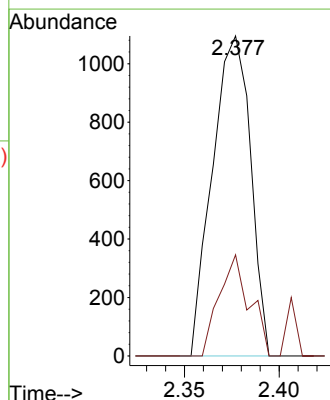
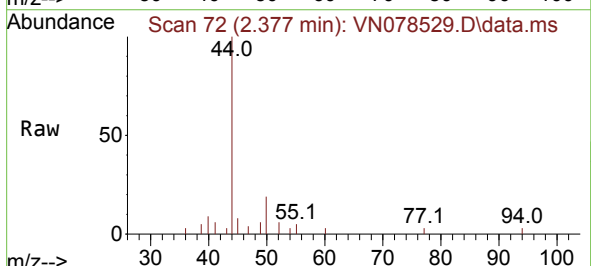
Acq: 14 Jul 2023 18:02

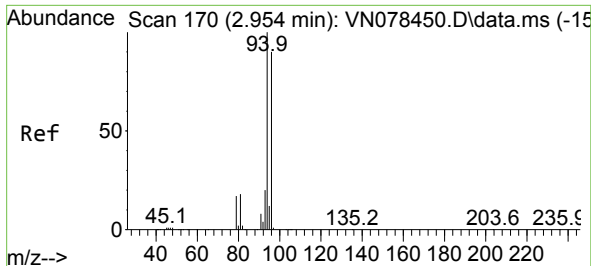
Tgt Ion: 50 Resp: 1532

Ion Ratio Lower Upper

50 100

52 31.6 26.5 39.7

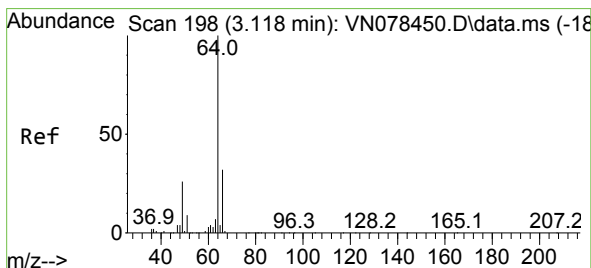
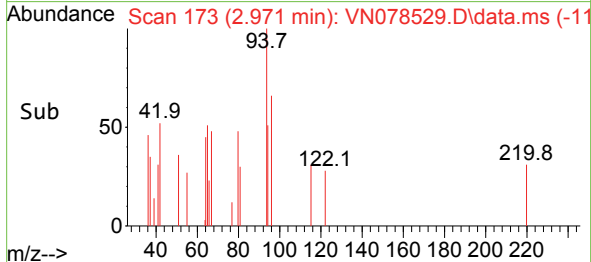
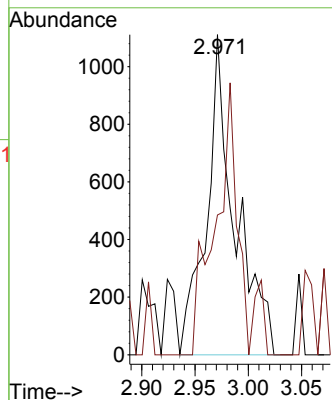
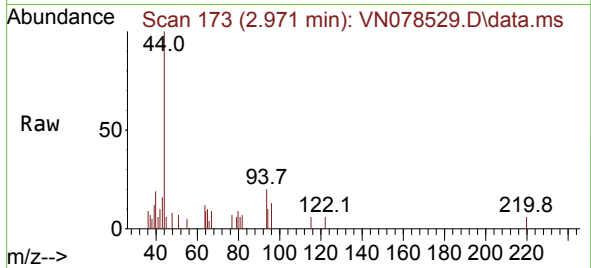




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

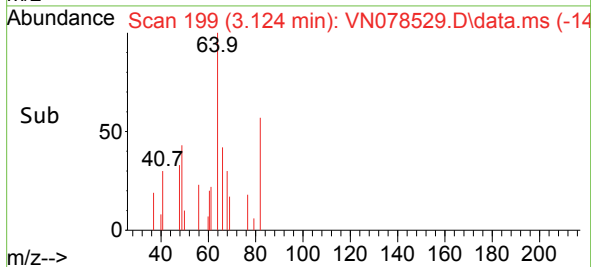
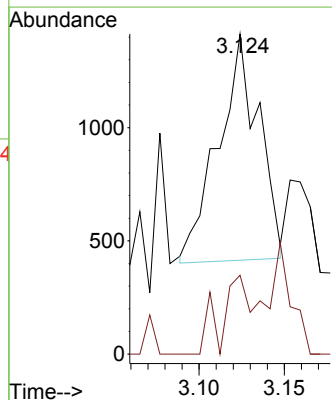
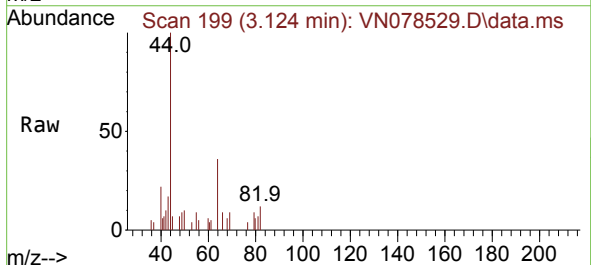
Instrument :
MSVOA_N
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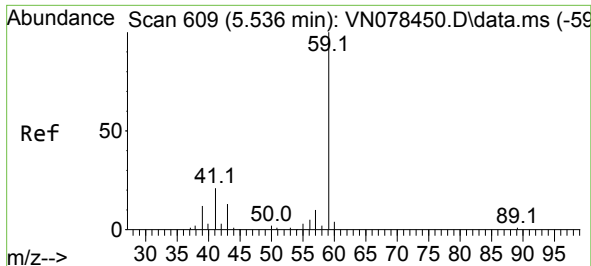
Tgt Ion: 94 Resp: 2050
Ion Ratio Lower Upper
94 100
96 43.7 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 64 Resp: 1654
Ion Ratio Lower Upper
64 100
66 35.4 25.4 38.2

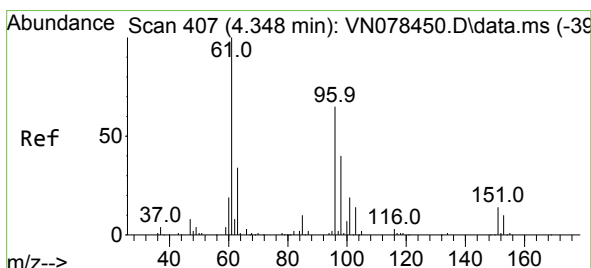
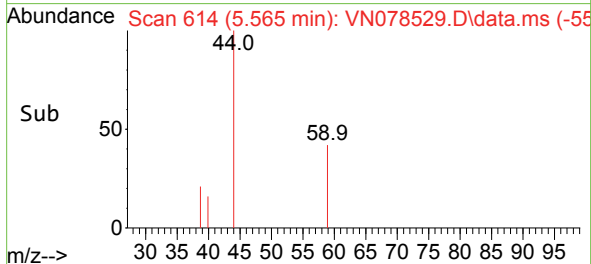
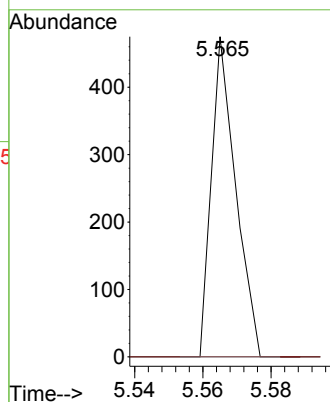
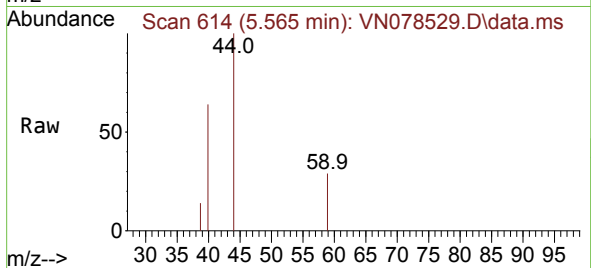




#11
Tert butyl alcohol
Concen: 0.282 ug/l
RT: 5.565 min Scan# 611
Delta R.T. 0.029 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

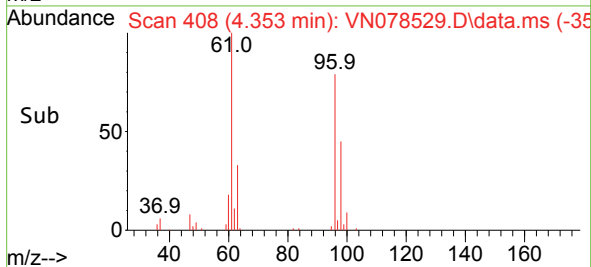
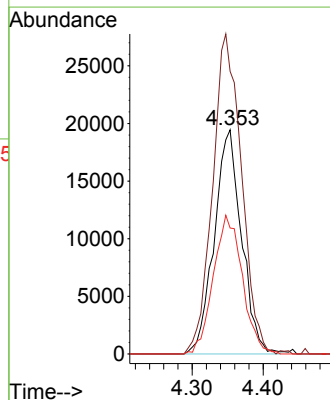
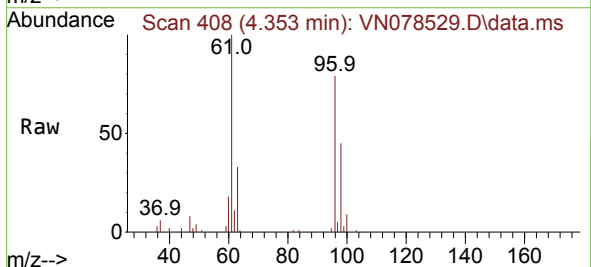
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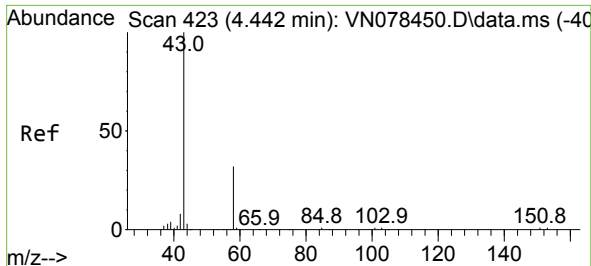
Tgt Ion: 59 Resp: 235
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 12.180 ug/l
RT: 4.353 min Scan# 408
Delta R.T. 0.005 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 96 Resp: 51869
Ion Ratio Lower Upper
96 100
61 126.0 112.7 169.1
98 56.2 51.2 76.8

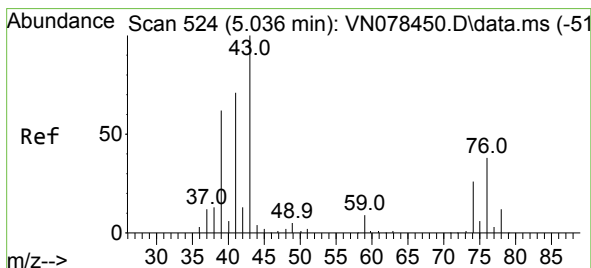
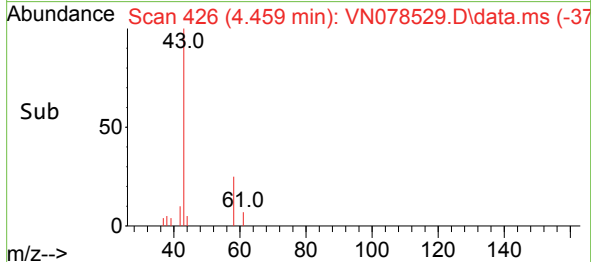
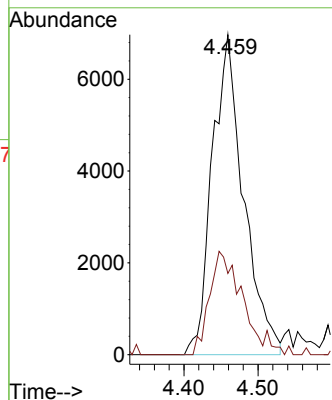
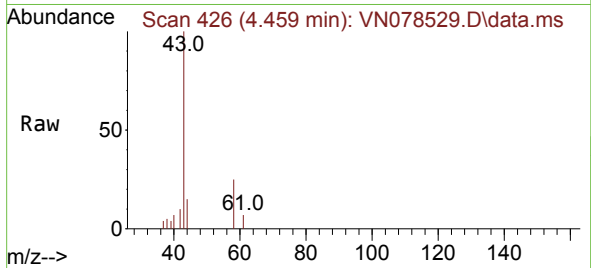




#16
Acetone
Concen: 12.186 ug/l
RT: 4.459 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

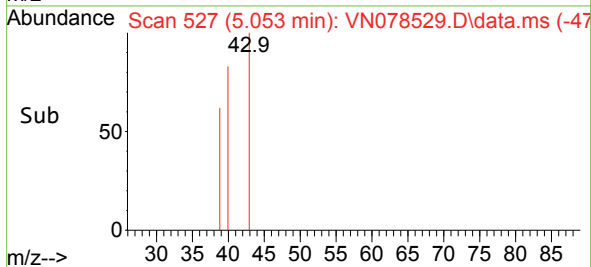
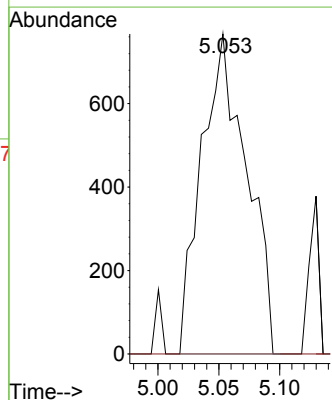
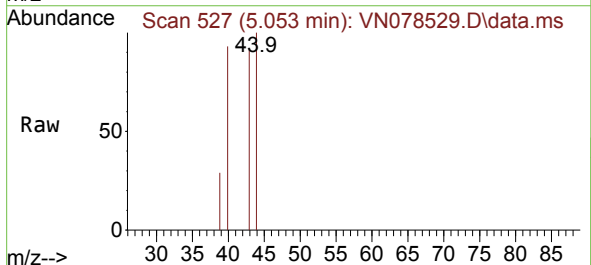
Instrument :
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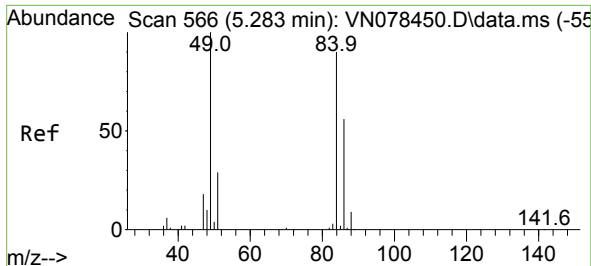
Tgt Ion: 43 Resp: 20538
Ion Ratio Lower Upper
43 100
58 25.4 28.0 42.0#



#18
Methyl Acetate
Concen: 0.277 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.017 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 43 Resp: 1976
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#

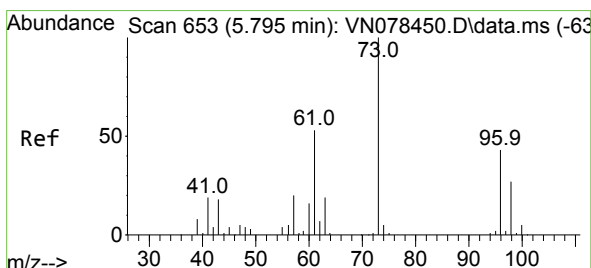
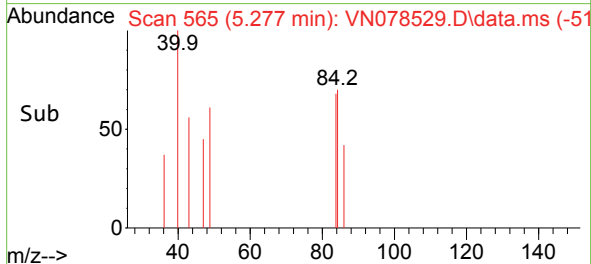
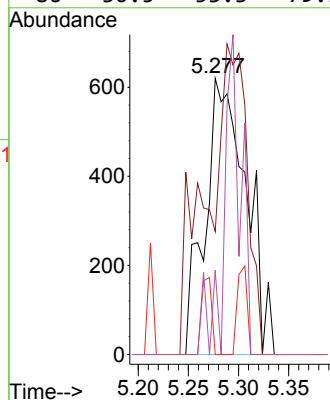
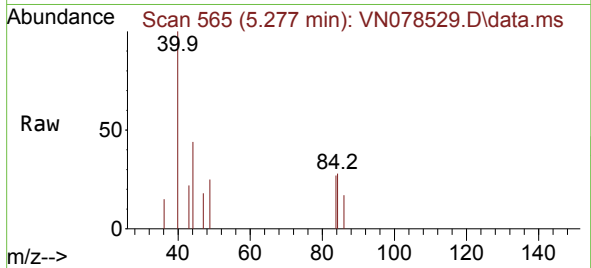




#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

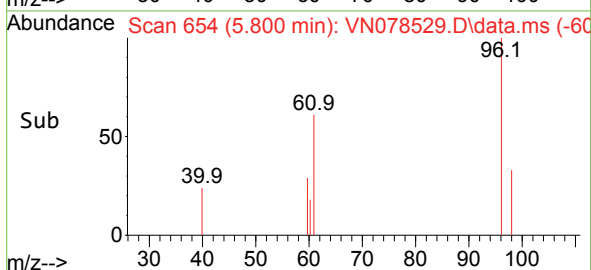
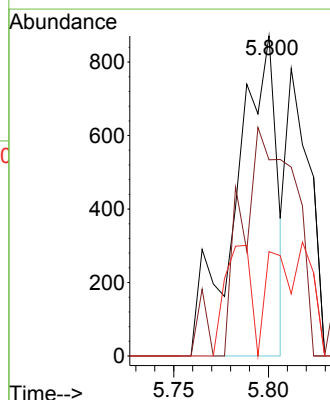
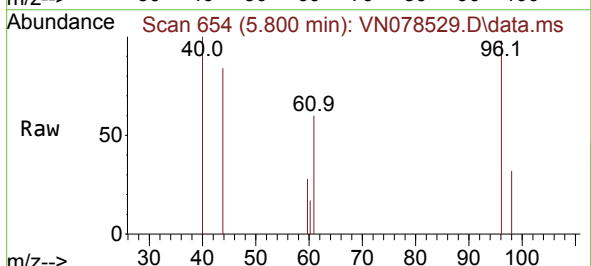
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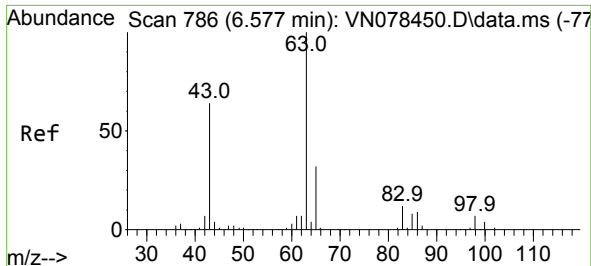
Tgt Ion: 84 Resp: 1769
Ion Ratio Lower Upper
84 100
49 44.5 79.7 119.5#
51 0.0 25.2 37.8#
86 30.5 53.3 79.9#



#21
trans-1,2-Dichloroethene
Concen: 0.272 ug/l
RT: 5.800 min Scan# 654
Delta R.T. 0.005 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 96 Resp: 1305
Ion Ratio Lower Upper
96 100
61 61.3 90.1 135.1#
98 32.6 46.4 69.6#

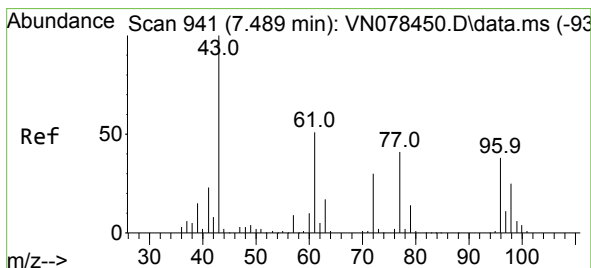
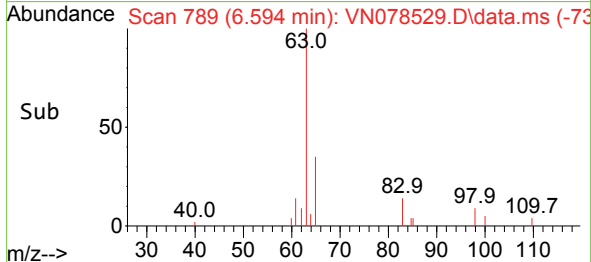
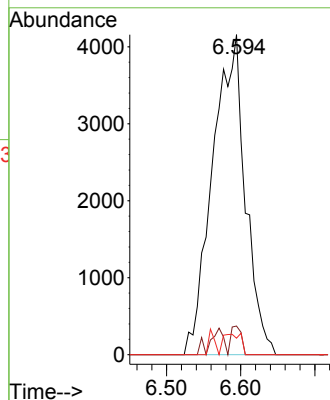
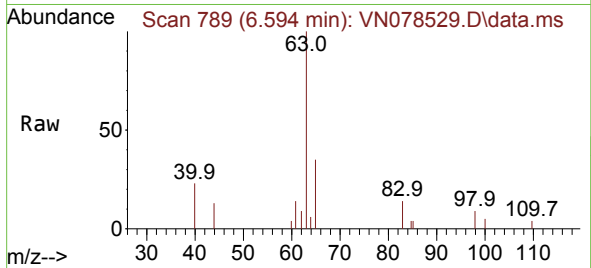




#24
1,1-Dichloroethane
Concen: 1.451 ug/l
RT: 6.594 min Scan# 71
Delta R.T. 0.017 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

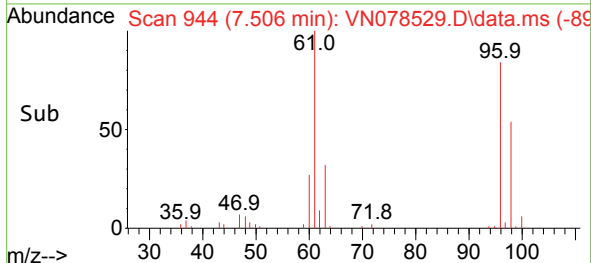
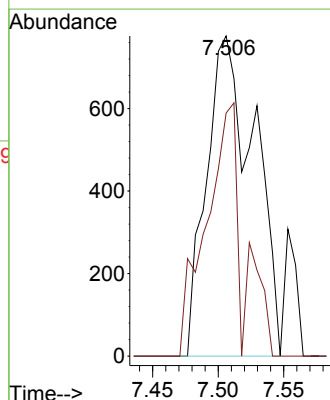
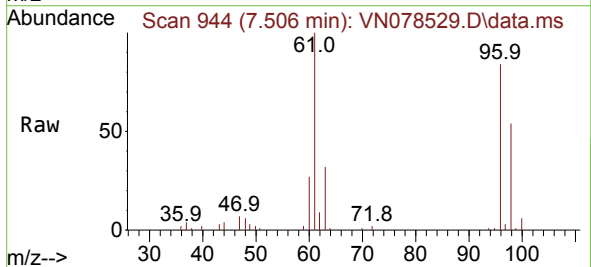
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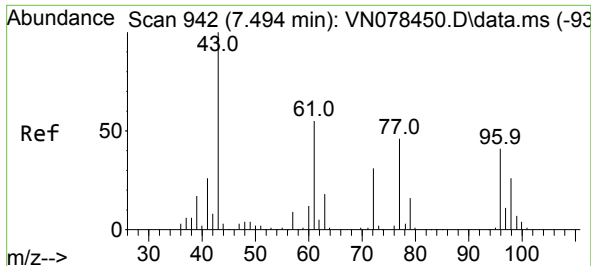
Tgt Ion: 63 Resp: 12743
Ion Ratio Lower Upper
63 100
98 8.9 3.9 11.7
100 5.1 2.5 7.4



#25
2-Butanone
Concen: 0.743 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 43 Resp: 1972
Ion Ratio Lower Upper
43 100
72 75.9 30.2 45.2#





#27

cis-1,2-Dichloroethene

Concen: 12.173 ug/l

RT: 7.500 min Scan# 94

Delta R.T. 0.006 min

Lab File: VN078529.D

Acq: 14 Jul 2023 18:02

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-359-374-071423

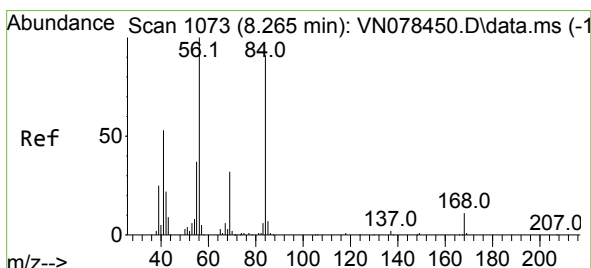
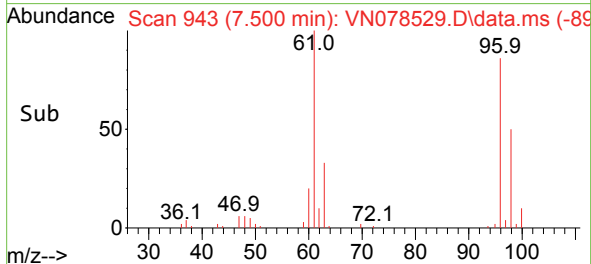
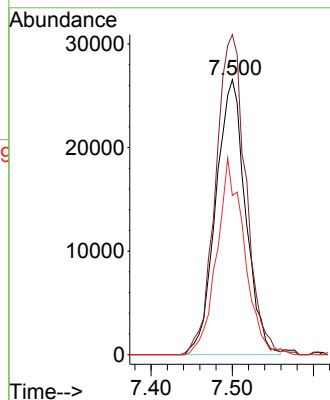
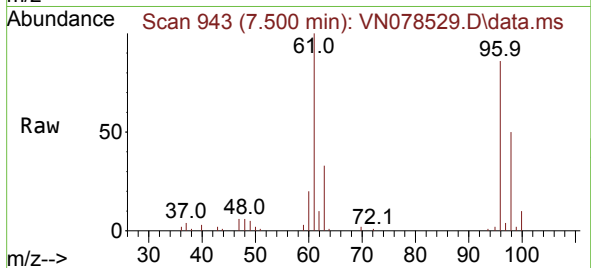
Tgt Ion: 96 Resp: 67577

Ion Ratio Lower Upper

96 100

61 118.8 0.0 255.2

98 66.2 0.0 128.8



#31

Cyclohexane

Concen: 1.240 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078529.D

Acq: 14 Jul 2023 18:02

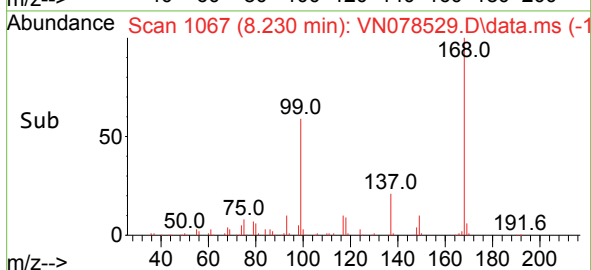
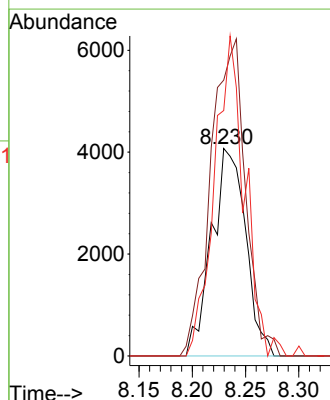
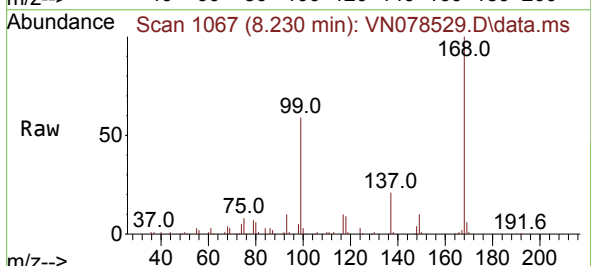
Tgt Ion: 56 Resp: 9063

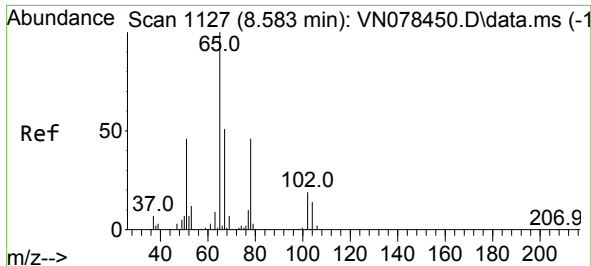
Ion Ratio Lower Upper

56 100

69 132.9 26.8 40.2#

84 118.3 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 50.282 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078529.D

Acq: 14 Jul 2023 18:02

Instrument :

MSVOA_N

ClientSampleId :

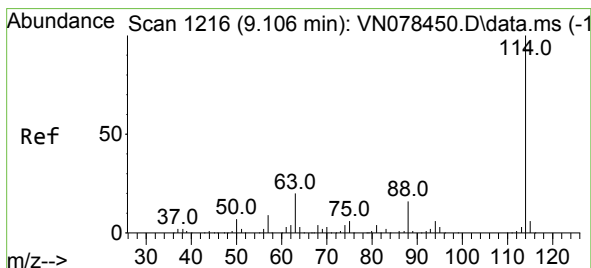
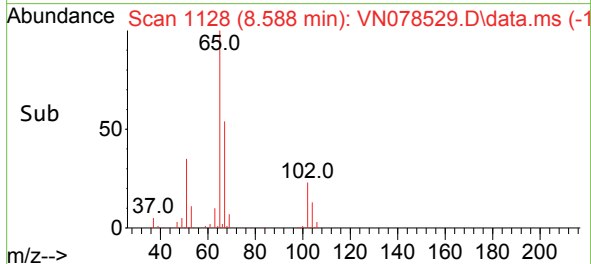
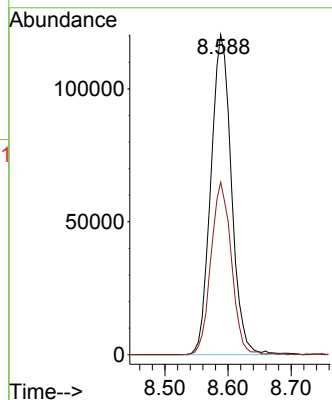
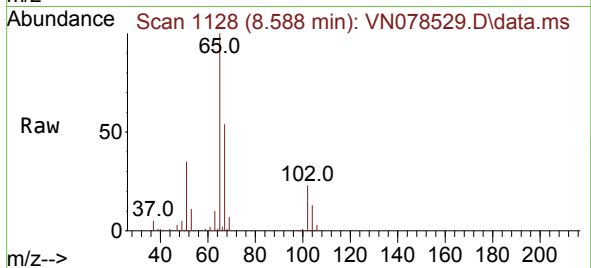
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Tgt Ion: 65 Resp: 272043

Ion Ratio Lower Upper

65 100

67 53.4 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: VN078529.D

Acq: 14 Jul 2023 18:02

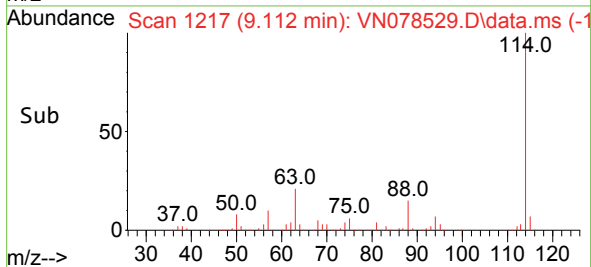
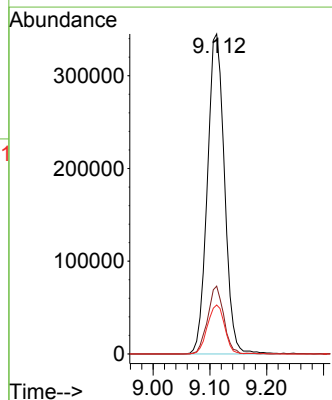
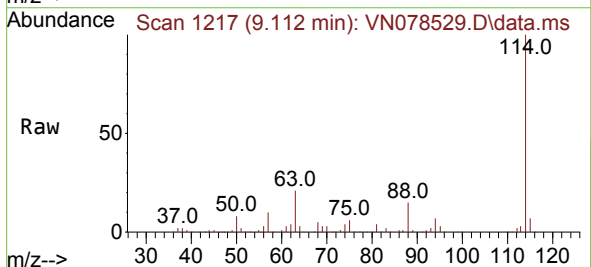
Tgt Ion: 114 Resp: 719746

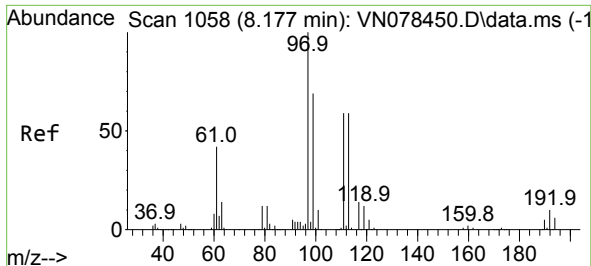
Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.4

88 15.3 0.0 30.6

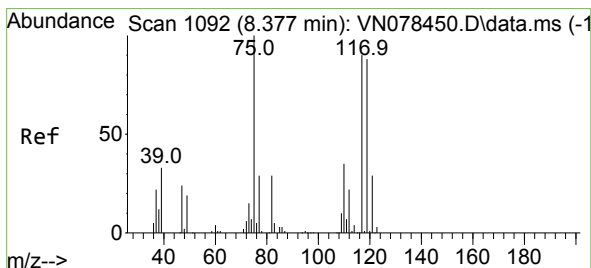
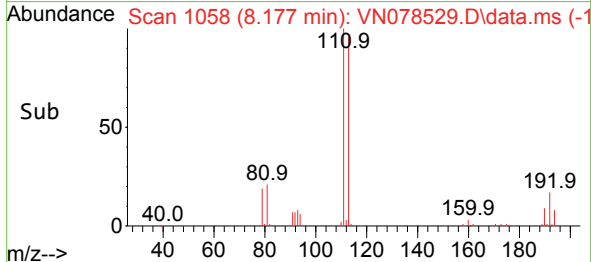
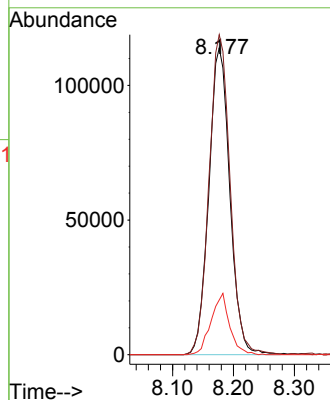
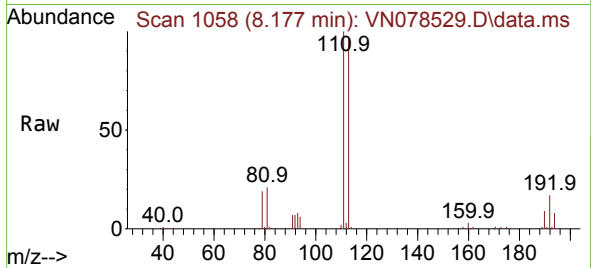




#35
Dibromofluoromethane
Concen: 55.838 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

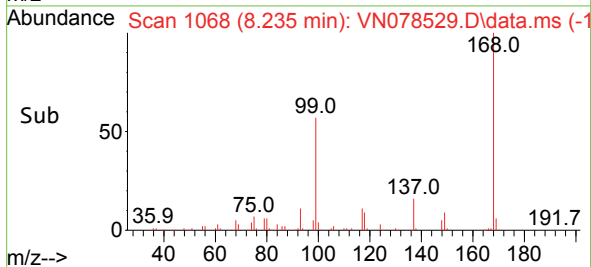
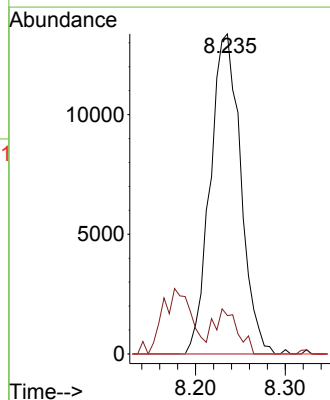
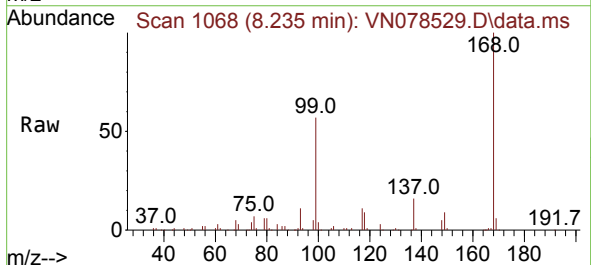
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-359-374-071423

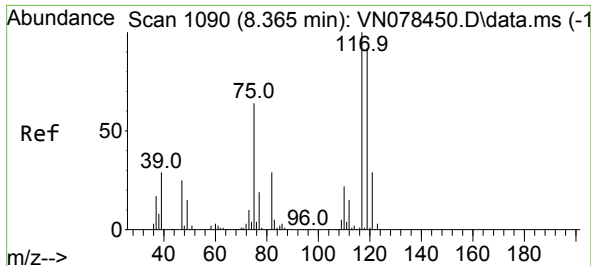
Tgt Ion:113 Resp: 272818
Ion Ratio Lower Upper
113 100
111 104.6 82.6 123.8
192 17.7 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.462 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 75 Resp: 31481
Ion Ratio Lower Upper
75 100
110 10.9 19.1 57.3#
77 0.0 25.0 37.4#

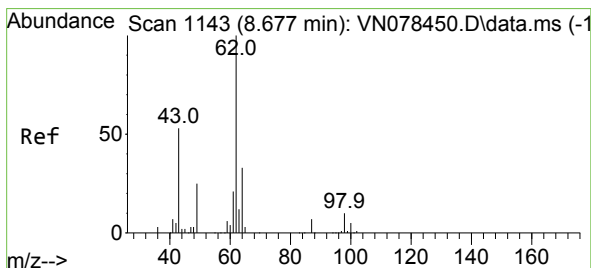
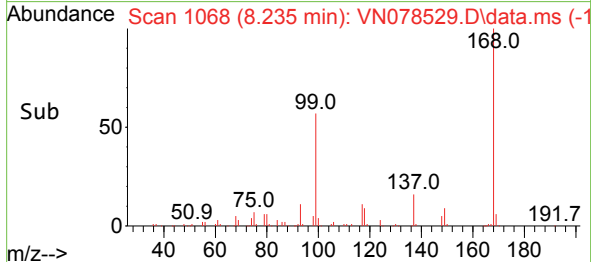
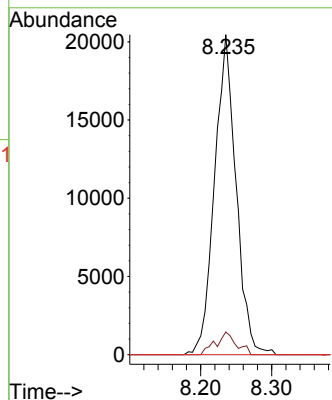
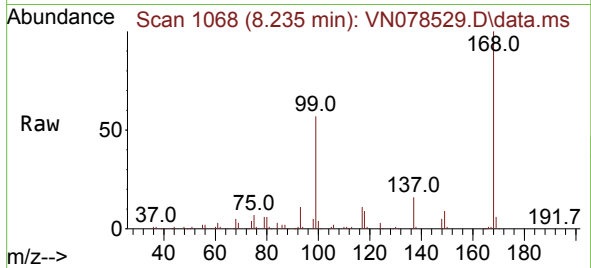




#38
Carbon Tetrachloride
Concen: 5.590 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.130 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

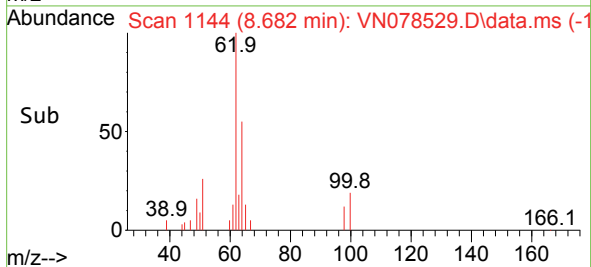
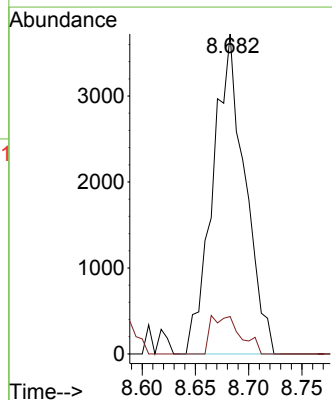
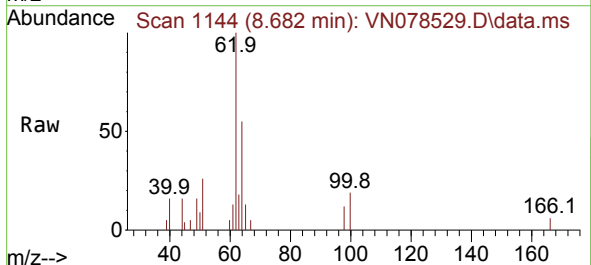
Instrument :
MSVOA_N
ClientSampleId :
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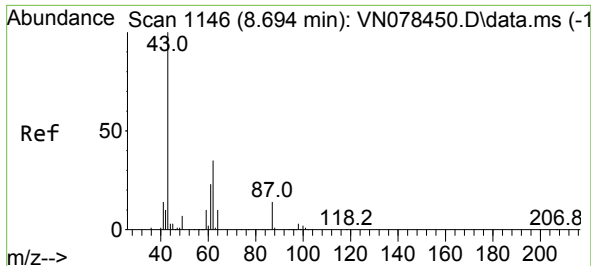
Tgt Ion:117 Resp: 42864
Ion Ratio Lower Upper
117 100
119 7.1 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 1.097 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 62 Resp: 7799
Ion Ratio Lower Upper
62 100
98 11.0 0.0 19.8

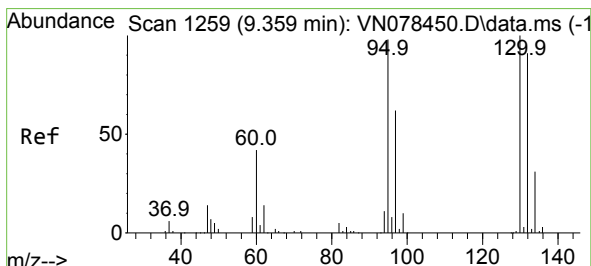
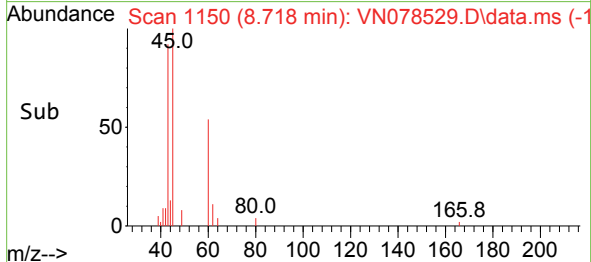
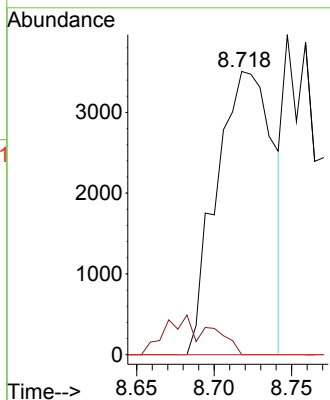
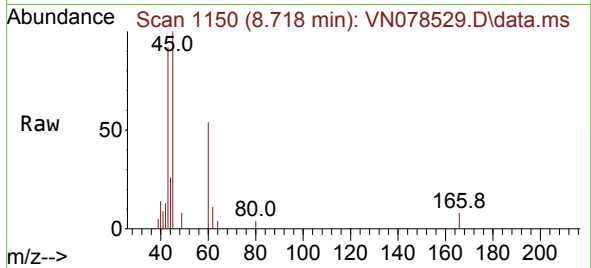




#43
Isopropyl Acetate
Concen: 0.917 ug/l
RT: 8.718 min Scan# 1146
Delta R.T. 0.024 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

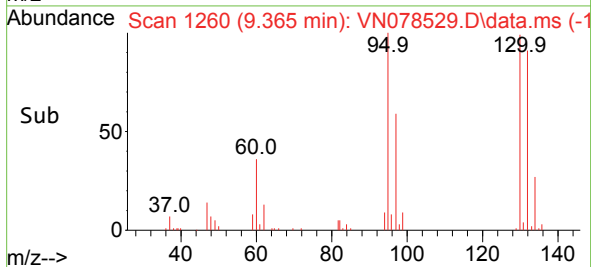
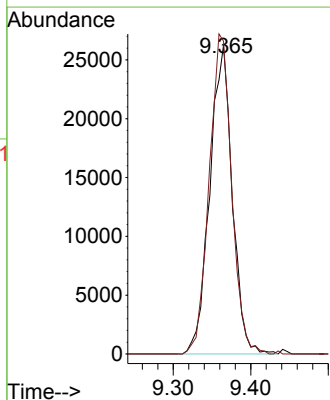
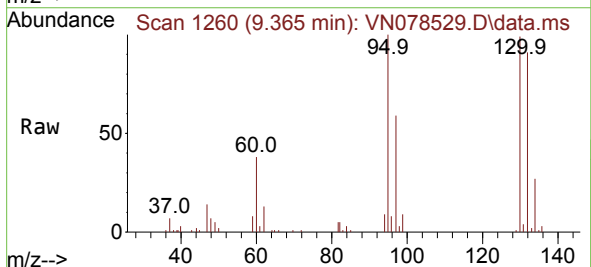
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-359-374-071423

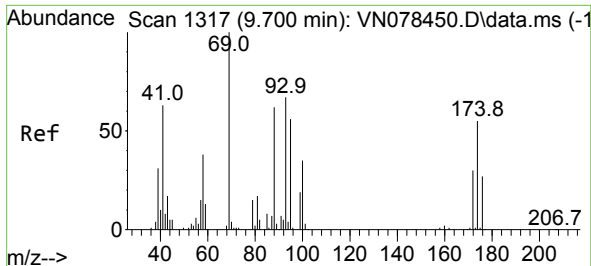
Tgt Ion: 43 Resp: 8876
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#44
Trichloroethene
Concen: 9.392 ug/l
RT: 9.365 min Scan# 1260
Delta R.T. 0.006 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion:130 Resp: 52905
Ion Ratio Lower Upper
130 100
95 101.3 0.0 204.6





#49

1,4-Dioxane

Concen: 8.669 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078529.D

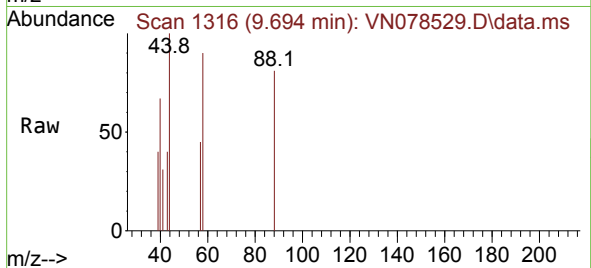
Acq: 14 Jul 2023 18:02

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-359-374-071423



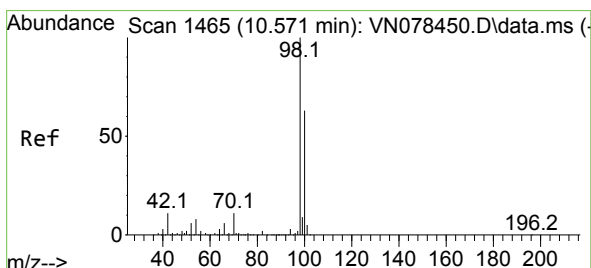
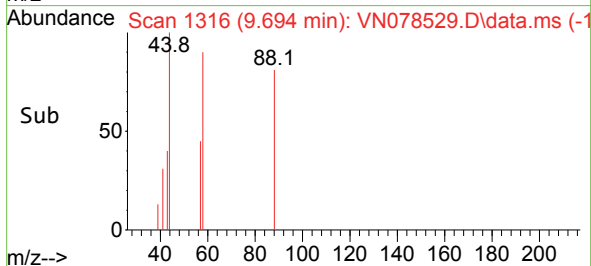
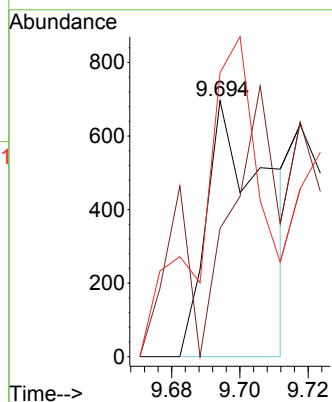
Tgt Ion: 88 Resp: 848

Ion Ratio Lower Upper

88 100

43 166.9 17.0 25.6#

58 126.1 47.0 70.4#



#50

Toluene-d8

Concen: 45.595 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.005 min

Lab File: VN078529.D

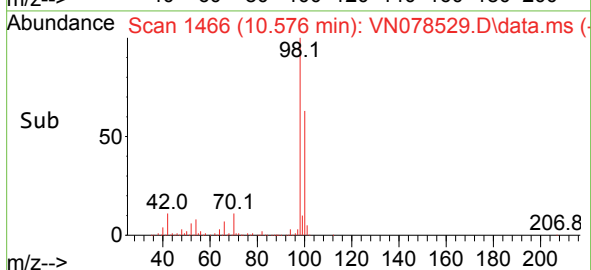
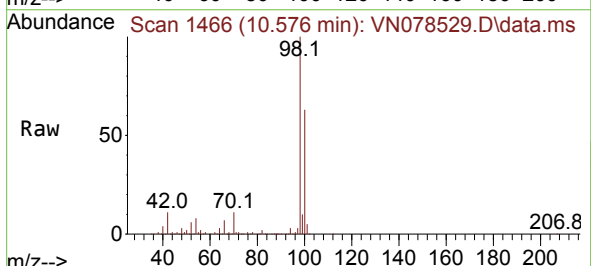
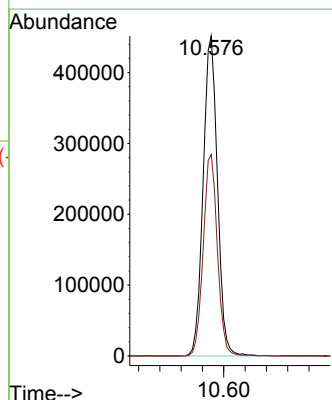
Acq: 14 Jul 2023 18:02

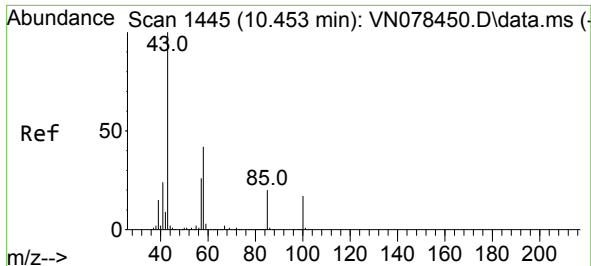
Tgt Ion: 98 Resp: 841570

Ion Ratio Lower Upper

98 100

100 62.3 52.0 78.0

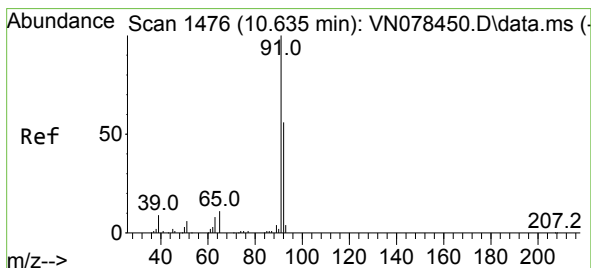
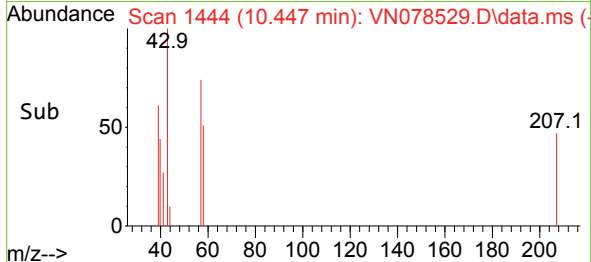
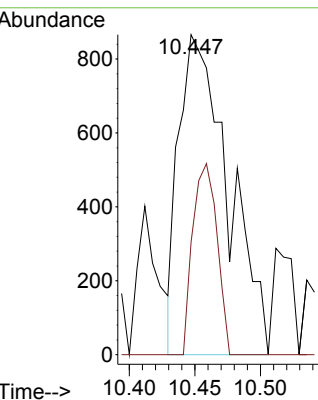
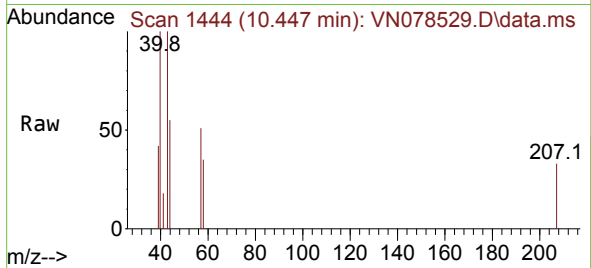




#51
4-Methyl-2-Pentanone
Concen: 0.395 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

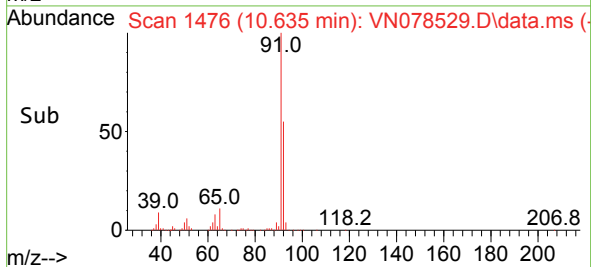
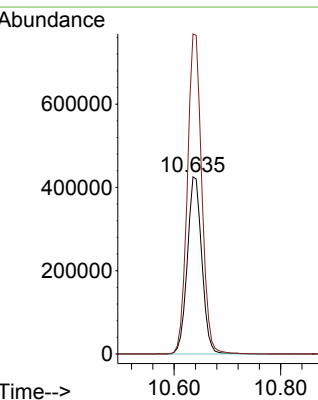
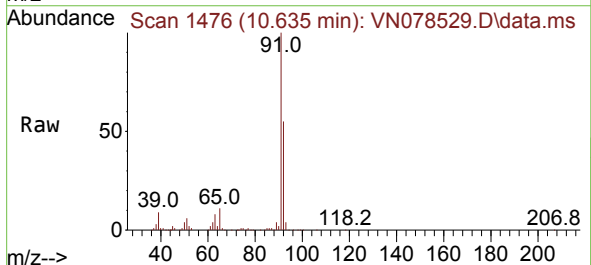
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-359-374-071423

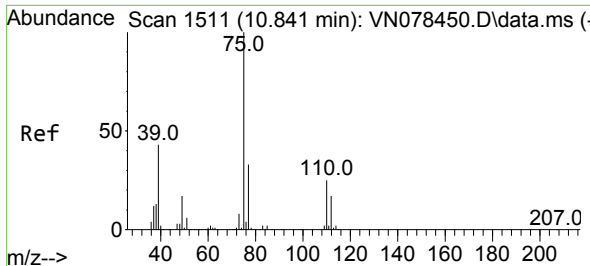
Tgt Ion: 43 Resp: 2272
Ion Ratio Lower Upper
43 100
58 29.3 36.6 54.8#



#52
Toluene
Concen: 61.912 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 92 Resp: 801976
Ion Ratio Lower Upper
92 100
91 179.5 137.4 206.0

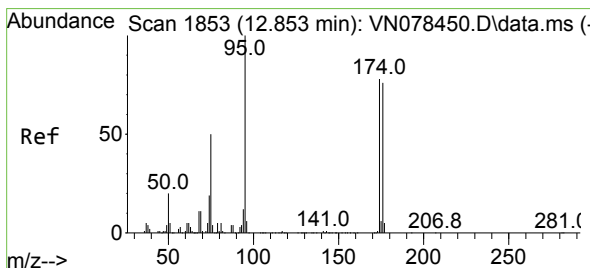
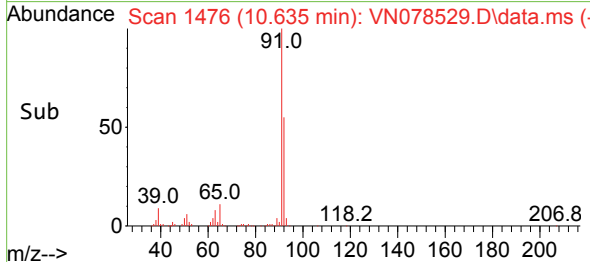
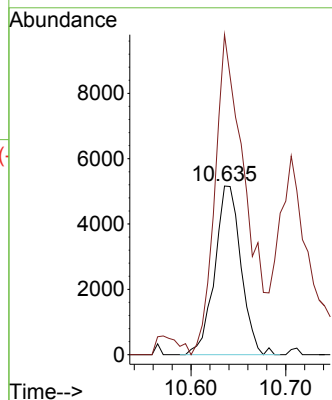
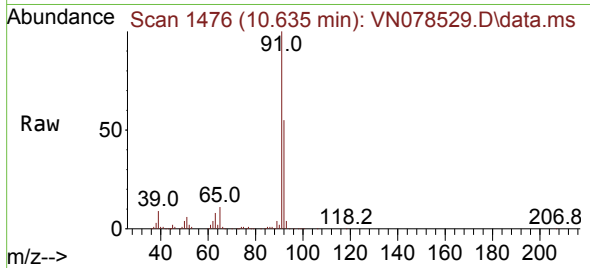




#53
t-1,3-Dichloropropene
Concen: 1.299 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

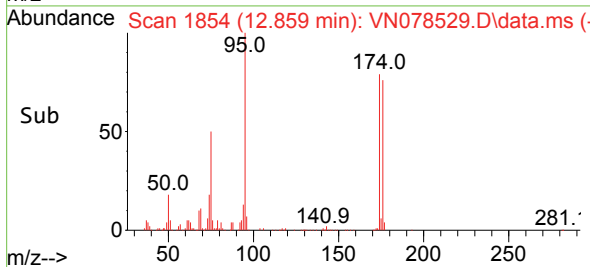
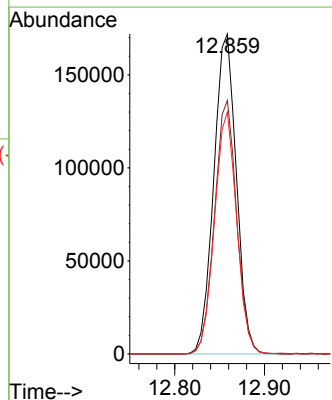
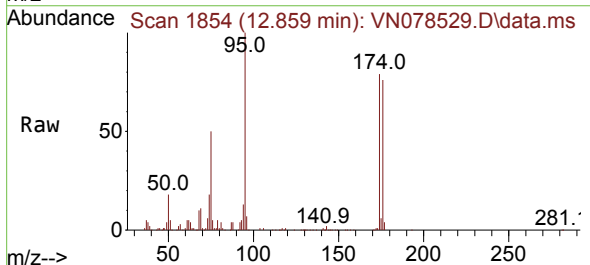
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-359-374-071423

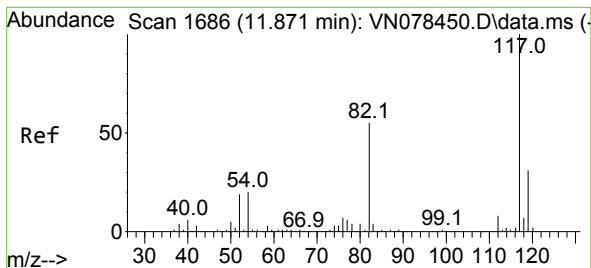
Tgt Ion: 75 Resp: 9938
Ion Ratio Lower Upper
75 100
77 184.9 25.4 38.0#



#62
4-Bromofluorobenzene
Concen: 52.782 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

Tgt Ion: 95 Resp: 300081
Ion Ratio Lower Upper
95 100
174 78.1 0.0 143.8
176 74.2 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.876 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN078529.D

Acq: 14 Jul 2023 18:02

Instrument :

MSVOA_N

ClientSampleId :

GWBR-04-359-374-071423

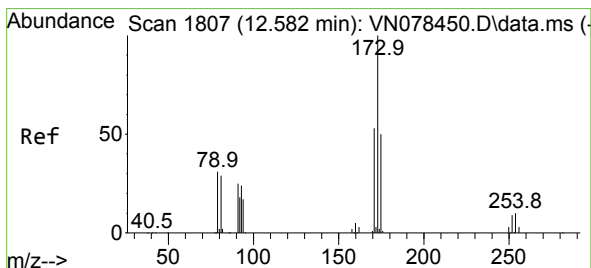
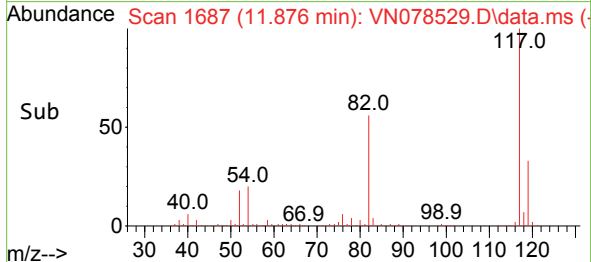
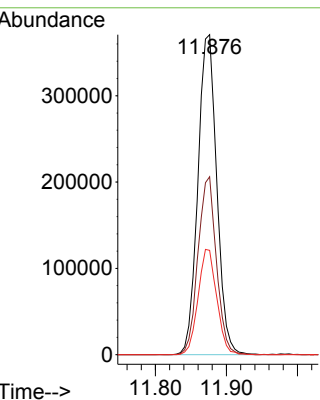
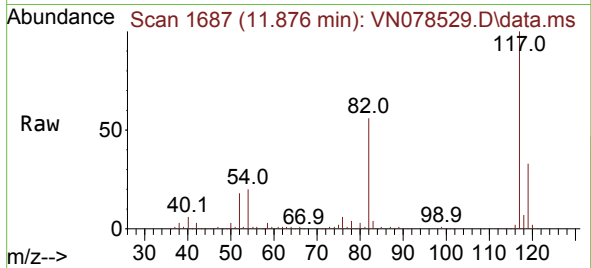
Tgt Ion:117 Resp: 683933

Ion Ratio Lower Upper

117 100

82 55.6 44.0 66.0

119 32.6 25.6 38.4



#71

Bromoform

Concen: 0.565 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN078529.D

Acq: 14 Jul 2023 18:02

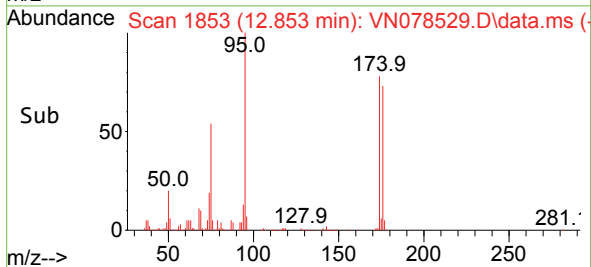
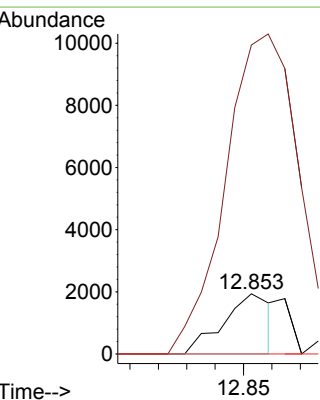
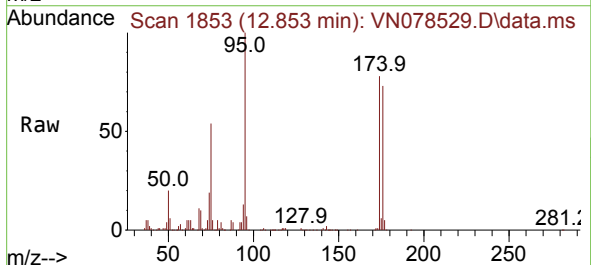
Tgt Ion:173 Resp: 2252

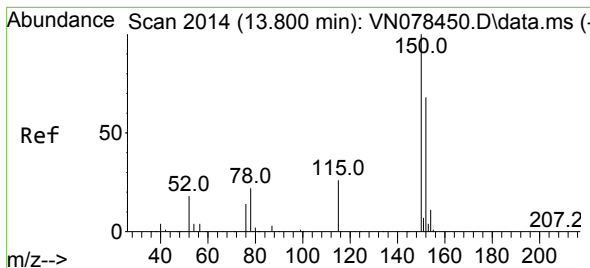
Ion Ratio Lower Upper

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: VN078529.D

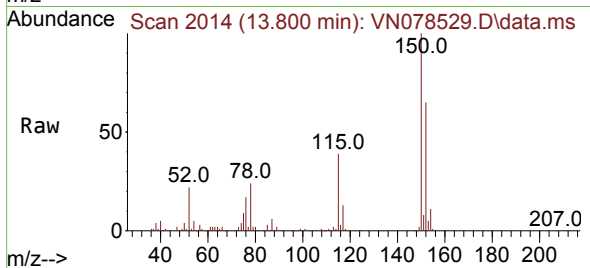
Acq: 14 Jul 2023 18:02

Instrument :

MSVOA_N

ClientSampleId :

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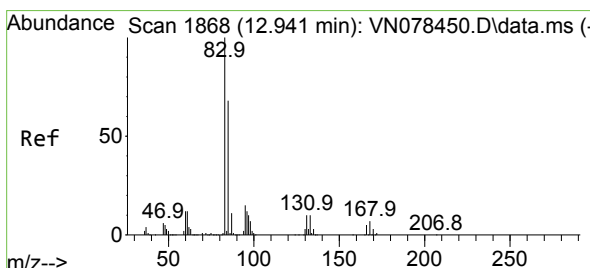
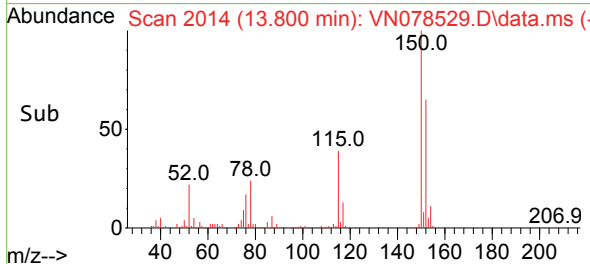
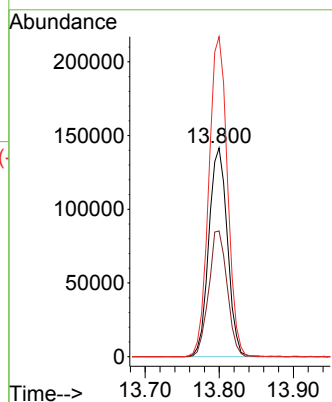
Tgt Ion:152 Resp: 245646

Ion Ratio Lower Upper

152 100

115 60.0 32.3 96.8

150 154.0 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.900 min Scan# 1861

Delta R.T. -0.041 min

Lab File: VN078529.D

Acq: 14 Jul 2023 18:02

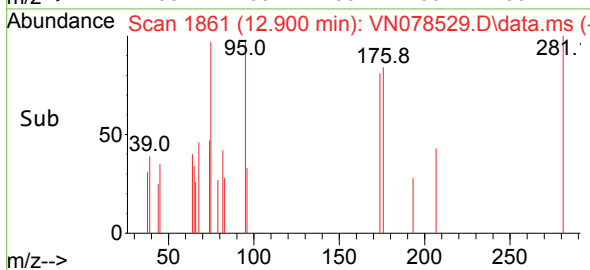
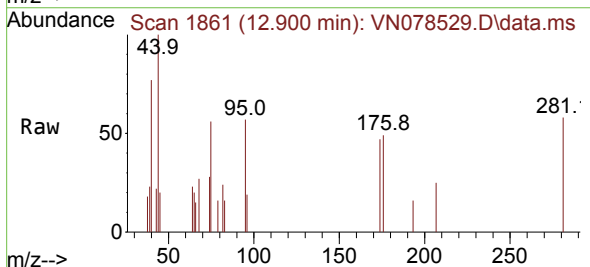
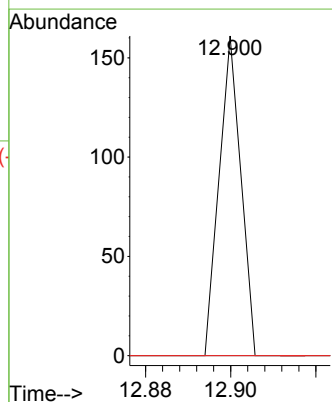
Tgt Ion: 83 Resp: 57

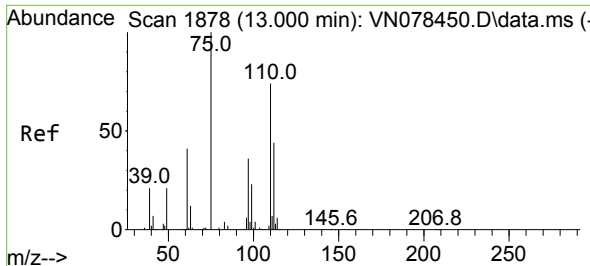
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#

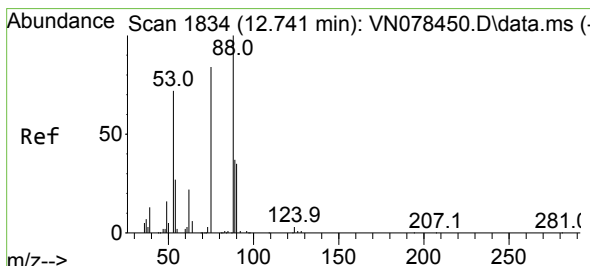
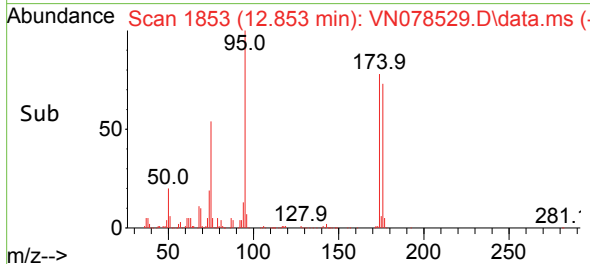
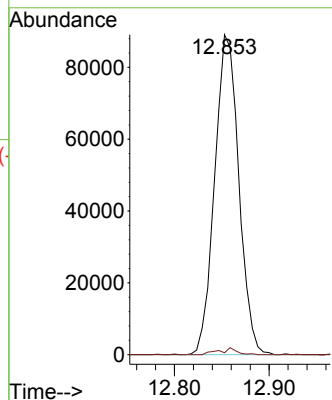
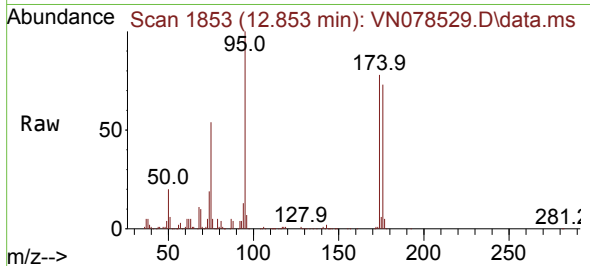




#76
1,2,3-Trichloropropane
Concen: 26.592 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

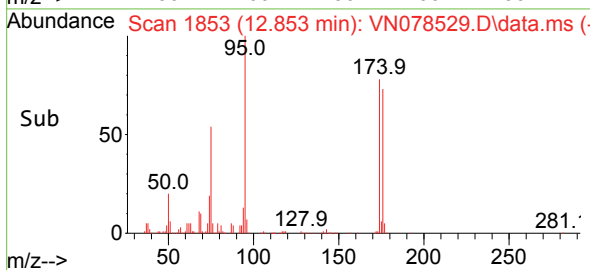
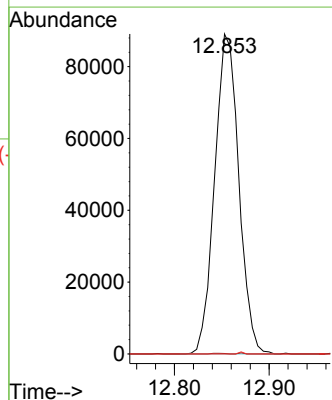
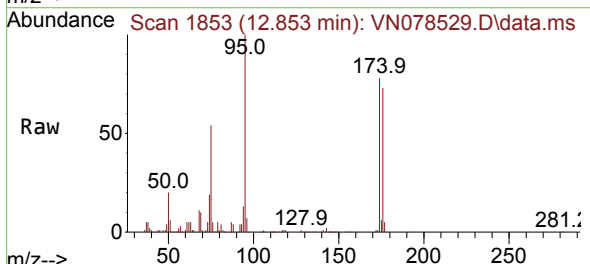
Instrument :
MSVOA_N
ClientSampleId :
GWBR-04-359-374-071423

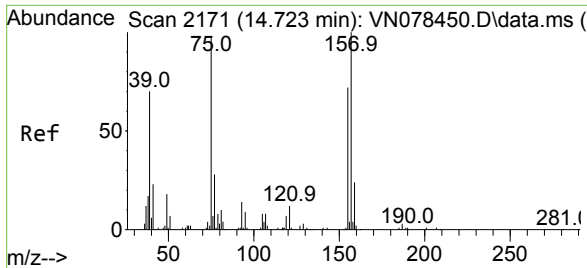
Tgt Ion: 75 Resp: 157889
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.878 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078529.D
Acq: 14 Jul 2023 18:02

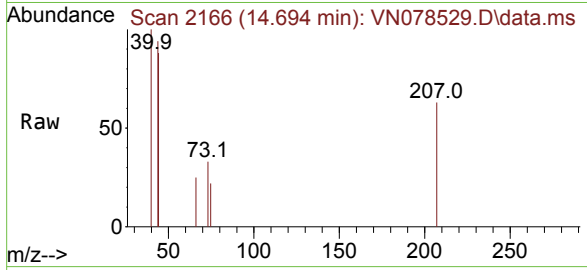
Tgt Ion: 75 Resp: 157889
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.694 min Scan# 21
 Delta R.T. -0.029 min
 Lab File: VN078529.D
 Acq: 14 Jul 2023 18:02

Instrument :
 MSVOA_N
 ClientSampleId :
 GWBR-04-359-374-071423



Tgt Ion: 75 Resp: 131
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.1 117.2#
 157 0.0 50.3 150.9#

