

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072823\
 Data File : VN078687.D
 Acq On : 28 Jul 2023 16:04
 Operator : JC\MD
 Sample : 03831-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-20-20230727

Quant Time: Jul 29 00:50:39 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)

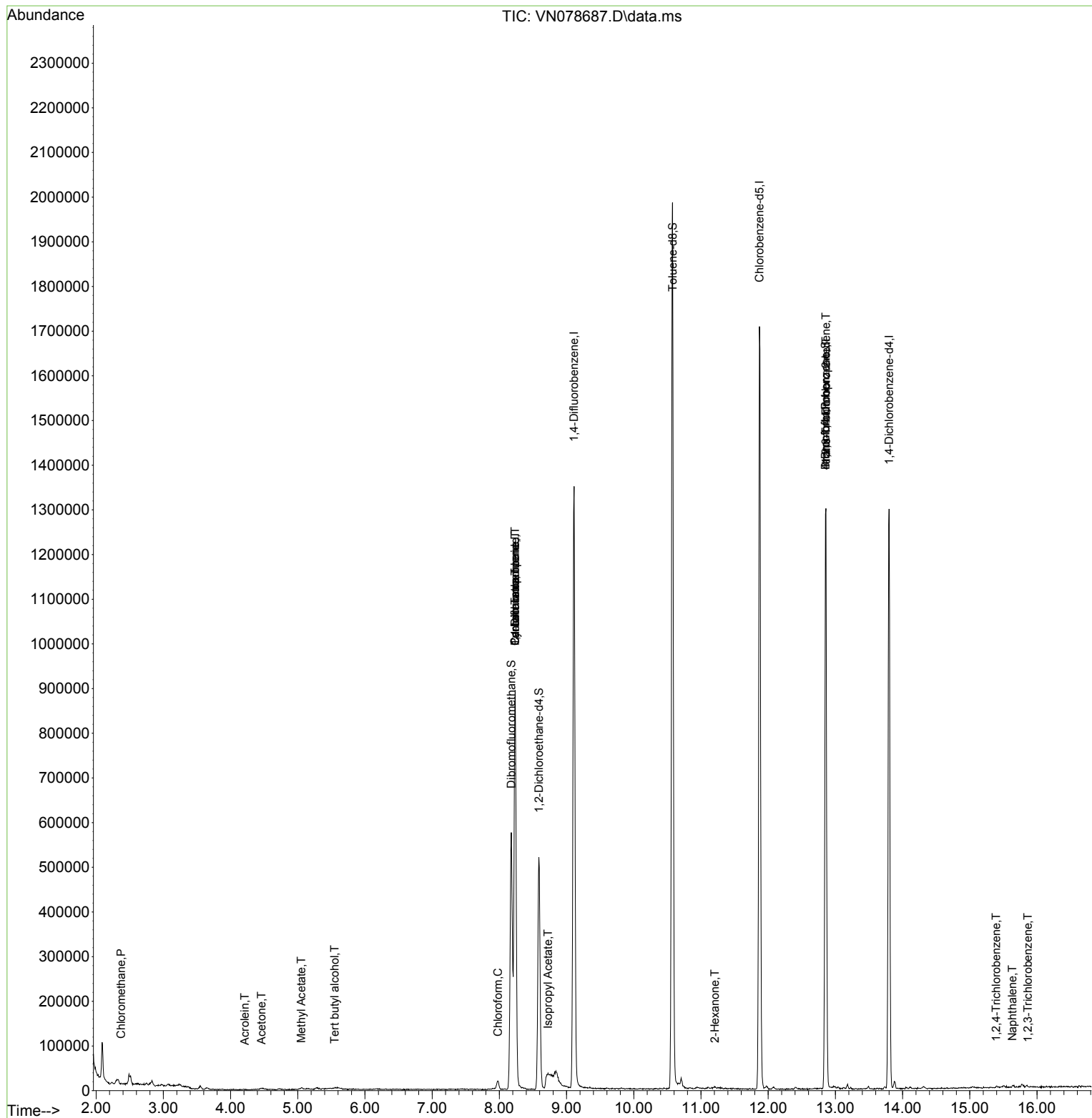
Internal Standards						
1) Pentafluorobenzene	8.235	168	680926	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	1210520	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	1085134	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	382069	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	437407	47.916	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.840%		
35) Dibromofluoromethane	8.177	113	426317	51.880	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.760%		
50) Toluene-d8	10.576	98	1464119	47.164	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.320%		
62) 4-Bromofluorobenzene	12.853	95	497065	51.984	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.960%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	2198	0.242	ug/l #	74
5) Bromomethane	2.971	94	2343	Below Cal	#	14
6) Chloroethane	3.065	64	938	Below Cal	#	77
11) Tert butyl alcohol	5.547	59	343	0.244	ug/l #	72
13) Acrolein	4.212	56	533	0.385	ug/l #	30
16) Acetone	4.459	43	2293	0.806	ug/l #	71
18) Methyl Acetate	5.053	43	6473	0.538	ug/l #	64
20) Methylene Chloride	5.277	84	2119	Below Cal	#	92
30) Chloroform	7.977	83	19923	1.292	ug/l	94
31) Cyclohexane	8.235	56	13326	1.080	ug/l #	9
36) 1,1-Dichloropropene	8.235	75	52076	4.389	ug/l #	48
38) Carbon Tetrachloride	8.235	117	68073	5.279	ug/l #	15
43) Isopropyl Acetate	8.724	43	30805	1.892	ug/l #	51
59) 2-Hexanone	11.206	43	3082	0.448	ug/l #	57
71) Bromoform	12.853	173	2134	0.338	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.947	83	842	Below Cal	#	49
76) 1,2,3-Trichloropropane	12.859	75	241826	26.186	ug/l #	1
77) Bromobenzene	12.994	156	149	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.859	75	241826	68.811	ug/l #	15
90) Hexachloroethane	14.335	117	64	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.717	75	143	Below Cal	#	24
93) 1,2,4-Trichlorobenzene	15.394	180	1116	0.255	ug/l #	20
94) Hexachlorobutadiene	15.506	225	1491	Below Cal		86
95) Naphthalene	15.635	128	4529	0.303	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.864	180	1321	0.262	ug/l #	13

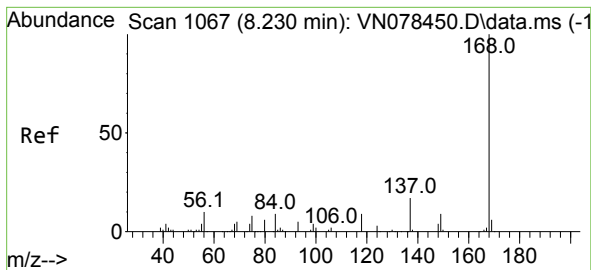
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 10 16:13:53 2023
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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: VN078687.D

Acq: 28 Jul 2023 16:04

Instrument :

MSVOA_N

ClientSampleId :

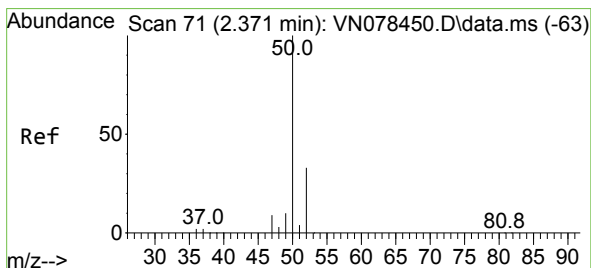
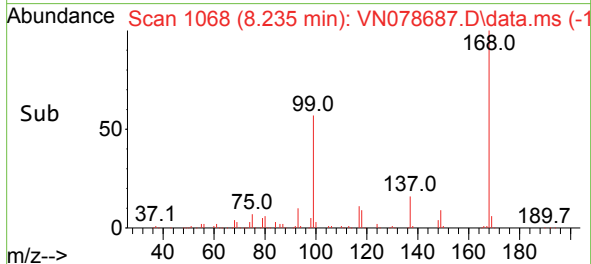
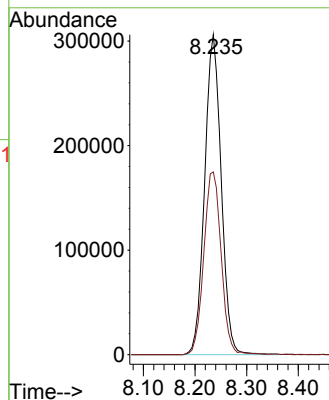
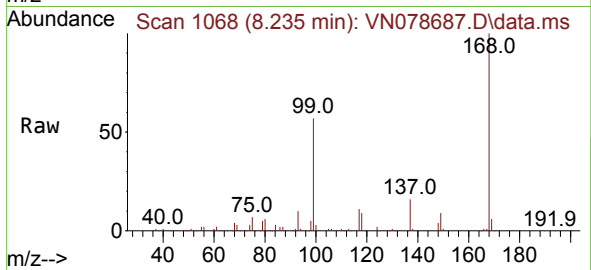
MW-20-20230727

Tgt Ion:168 Resp: 680926

Ion Ratio Lower Upper

168 100

99 57.1 53.0 79.6



#3

Chloromethane

Concen: 0.242 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078687.D

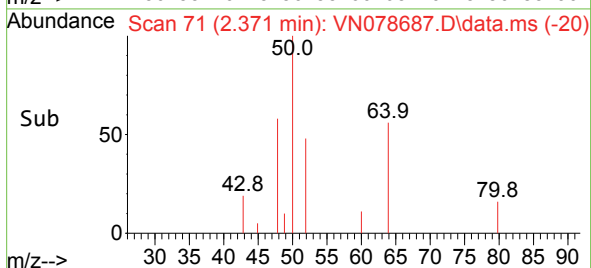
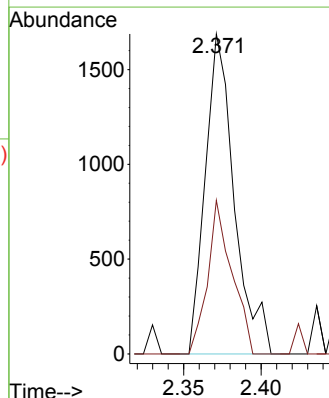
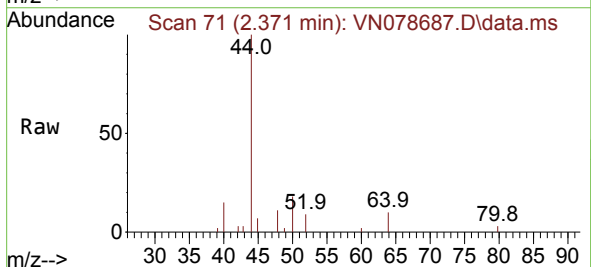
Acq: 28 Jul 2023 16:04

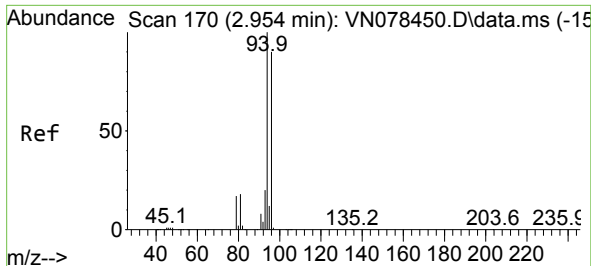
Tgt Ion: 50 Resp: 2198

Ion Ratio Lower Upper

50 100

52 48.0 26.5 39.7#

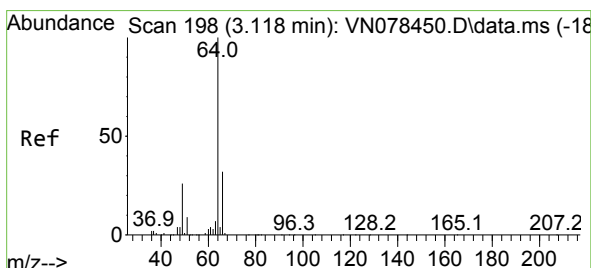
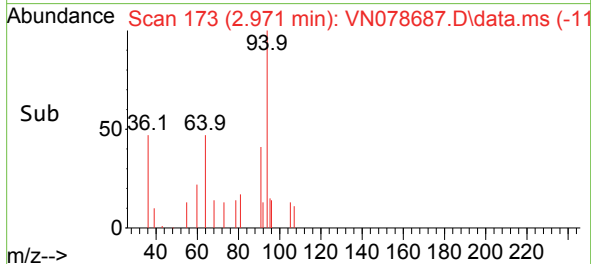
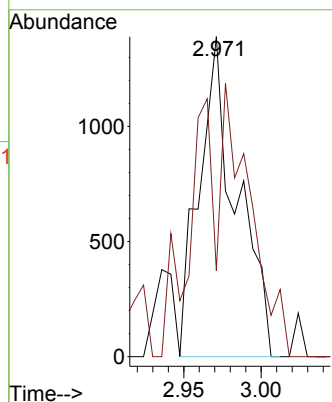
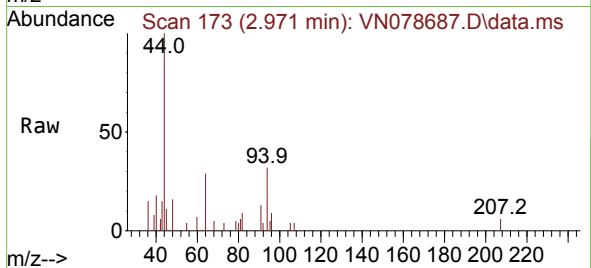




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

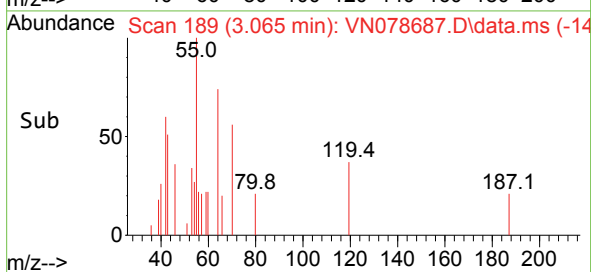
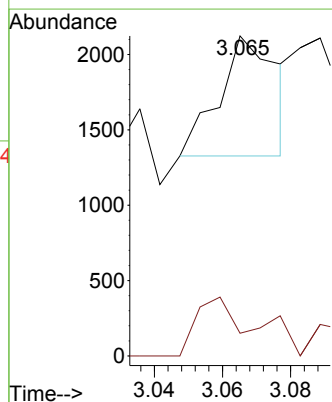
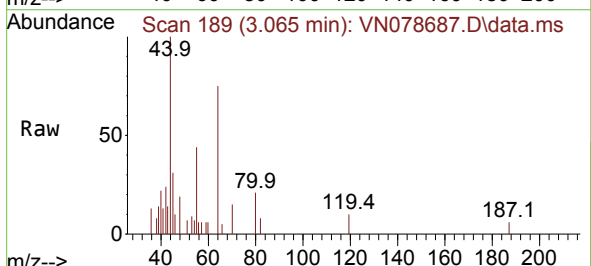
Instrument :
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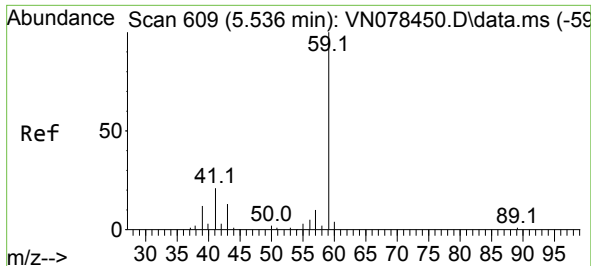
Tgt Ion: 94 Resp: 2343
Ion Ratio Lower Upper
94 100
96 9.4 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.065 min Scan# 189
Delta R.T. -0.053 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

Tgt Ion: 64 Resp: 938
Ion Ratio Lower Upper
64 100
66 19.0 25.4 38.2#

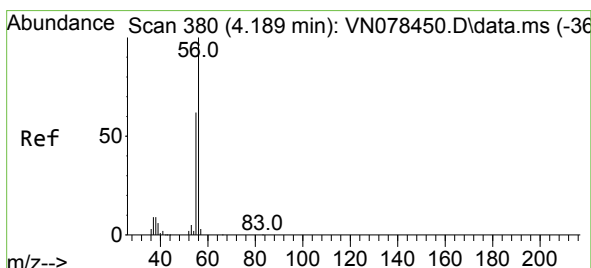
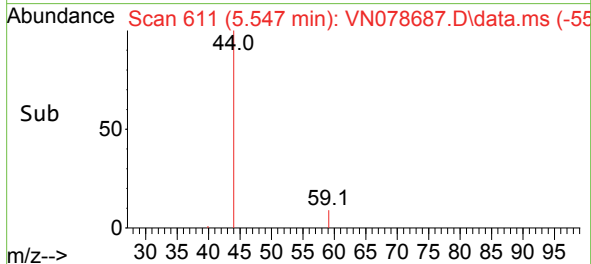
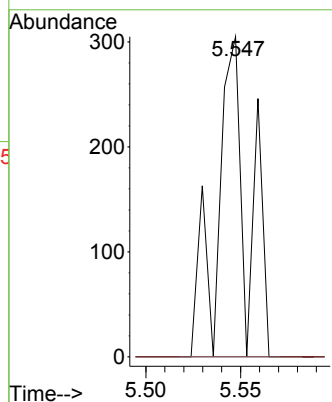
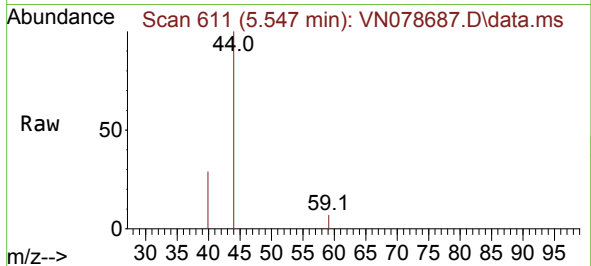




#11
Tert butyl alcohol
Concen: 0.244 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.011 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

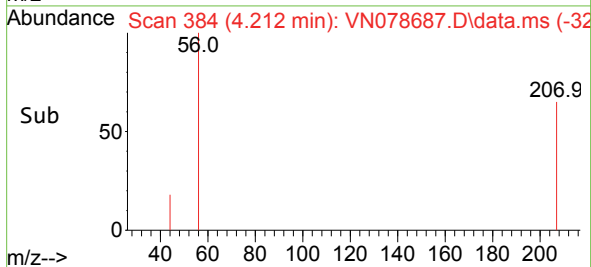
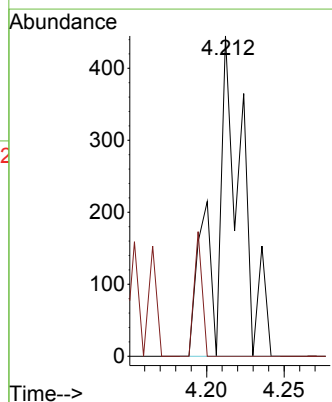
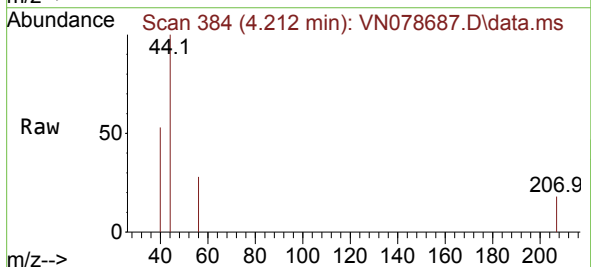
Instrument :
MSVOA_N
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MW-20-20230727

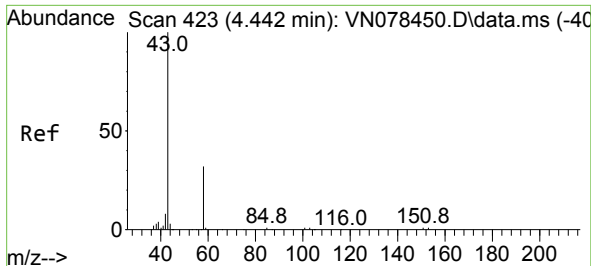
Tgt Ion: 59 Resp: 343
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.385 ug/l
RT: 4.212 min Scan# 384
Delta R.T. 0.023 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

Tgt Ion: 56 Resp: 533
Ion Ratio Lower Upper
56 100
55 11.4 54.5 81.7#

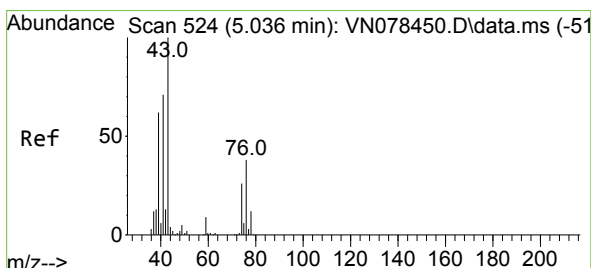
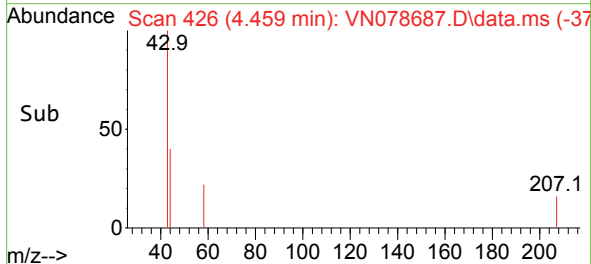
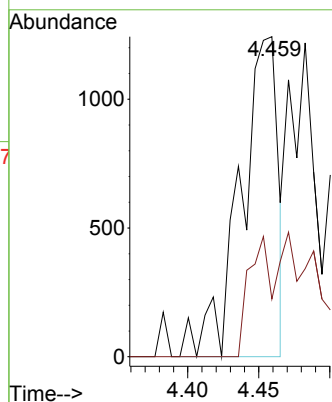
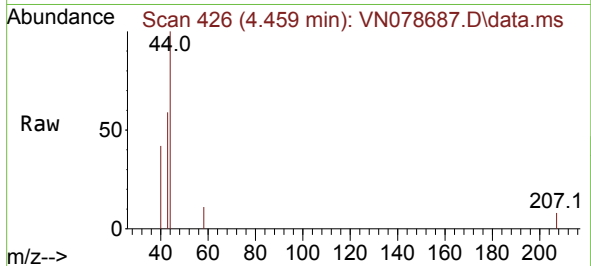




#16
Acetone
Concen: 0.806 ug/l
RT: 4.459 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

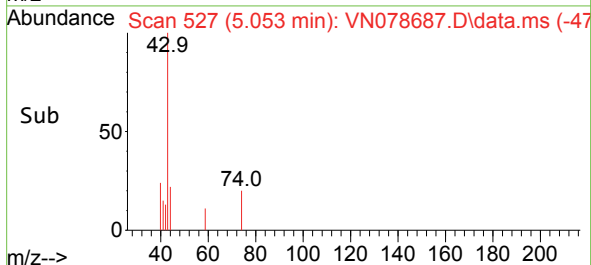
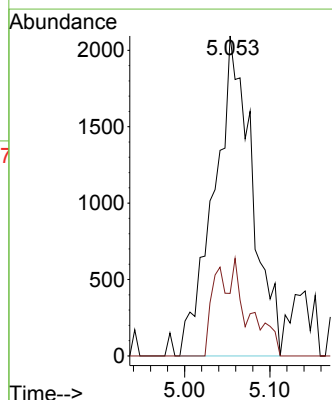
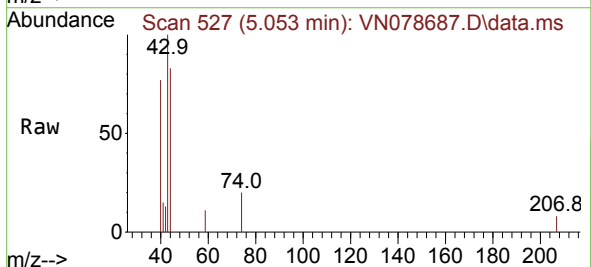
Instrument :
MSVOA_N
ClientSampleId :
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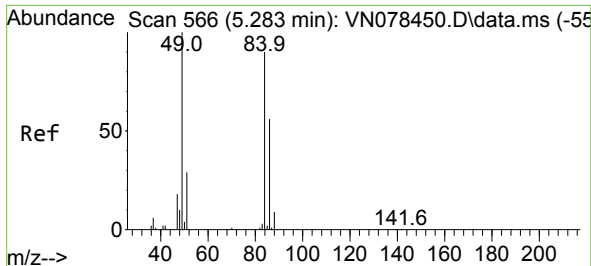
Tgt Ion: 43 Resp: 2293
Ion Ratio Lower Upper
43 100
58 18.0 28.0 42.0#



#18
Methyl Acetate
Concen: 0.538 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.017 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

Tgt Ion: 43 Resp: 6473
Ion Ratio Lower Upper
43 100
74 12.4 26.2 39.4#

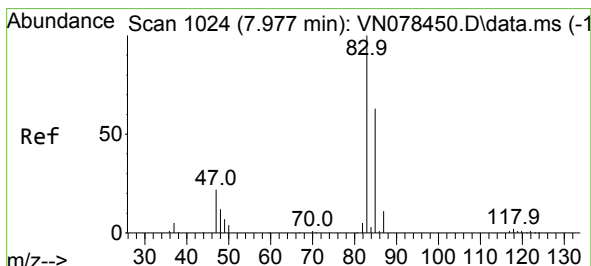
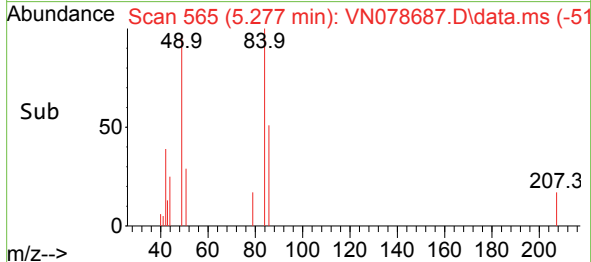
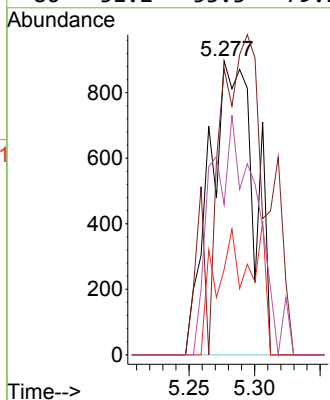
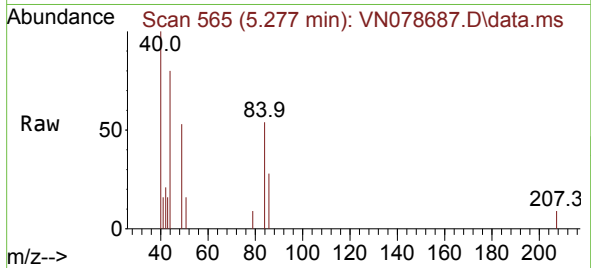




#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

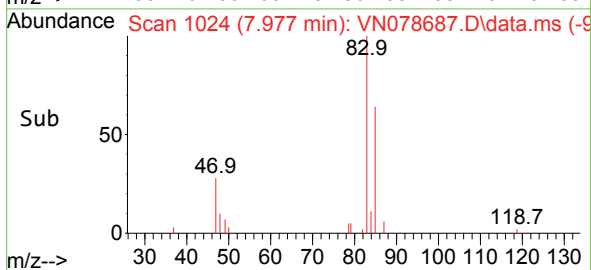
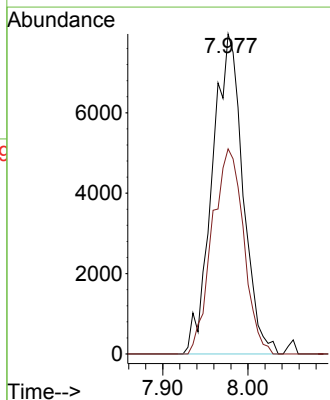
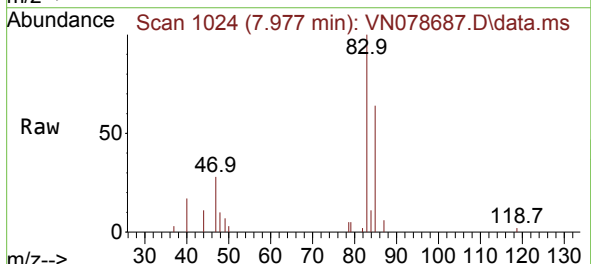
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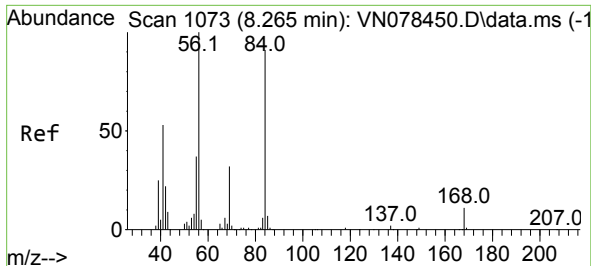
Tgt Ion: 84 Resp: 2119
Ion Ratio Lower Upper
84 100
49 97.2 79.7 119.5
51 29.0 25.2 37.8
86 51.2 53.3 79.9#



#30
Chloroform
Concen: 1.292 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

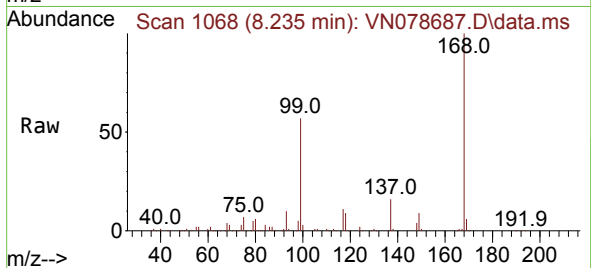
Tgt Ion: 83 Resp: 19923
Ion Ratio Lower Upper
83 100
85 64.1 55.4 83.0



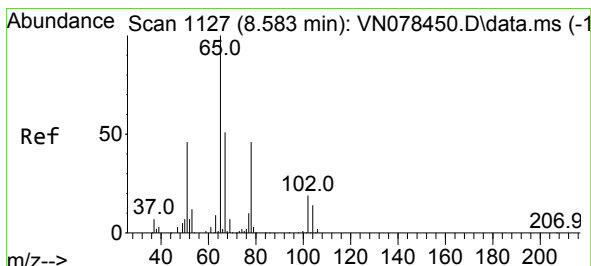
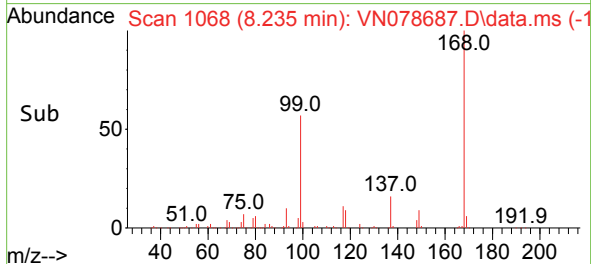
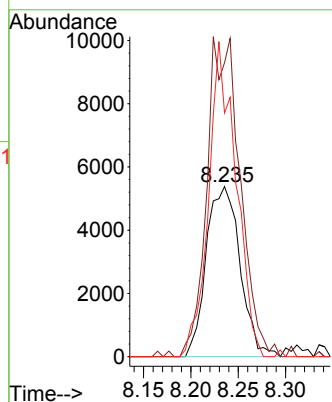


#31
Cyclohexane
Concen: 1.080 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

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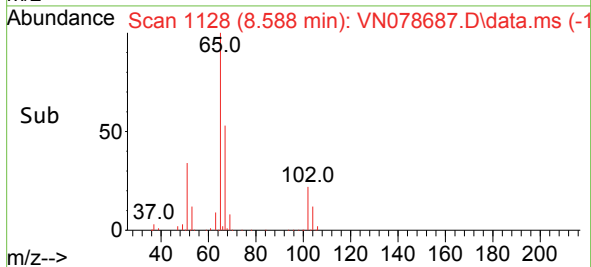
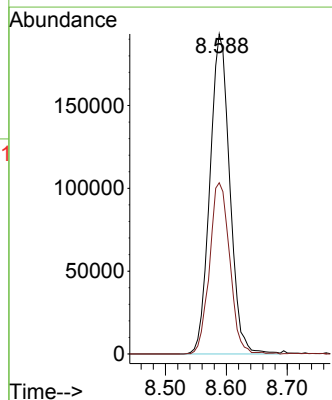
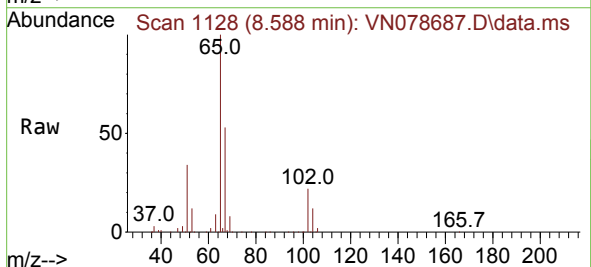


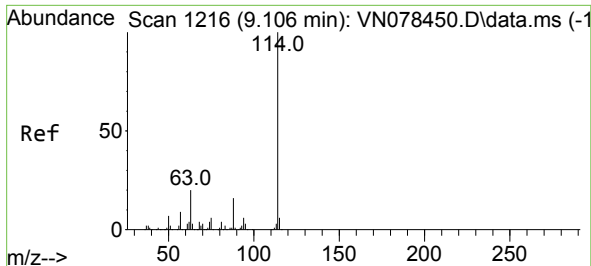
Tgt Ion: 56 Resp: 13326
Ion Ratio Lower Upper
56 100
69 172.7 26.8 40.2#
84 143.2 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 47.916 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

Tgt Ion: 65 Resp: 437407
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078687.D

Acq: 28 Jul 2023 16:04

Instrument :

MSVOA_N

ClientSampleId :

MW-20-20230727

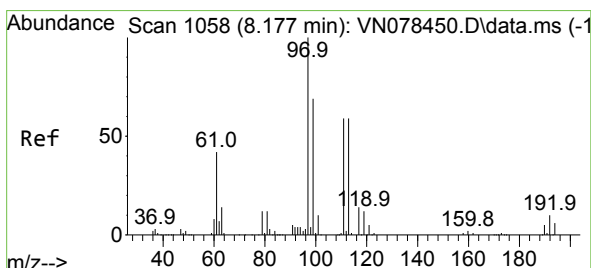
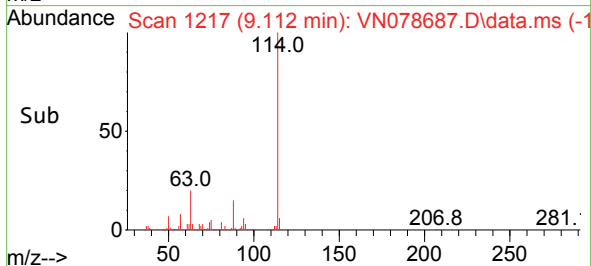
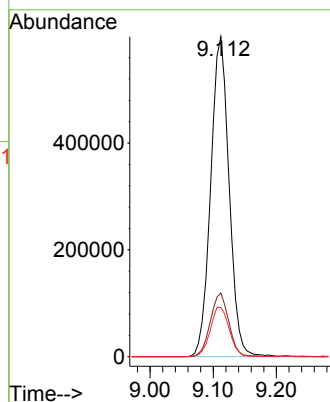
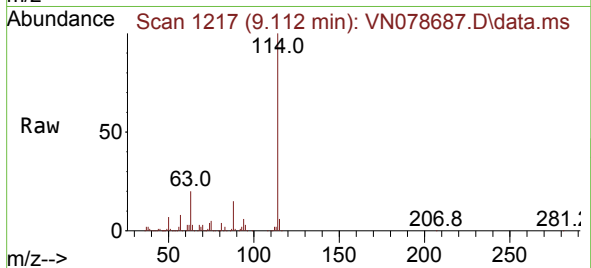
Tgt Ion:114 Resp: 1210520

Ion Ratio Lower Upper

114 100

63 19.9 0.0 36.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.880 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078687.D

Acq: 28 Jul 2023 16:04

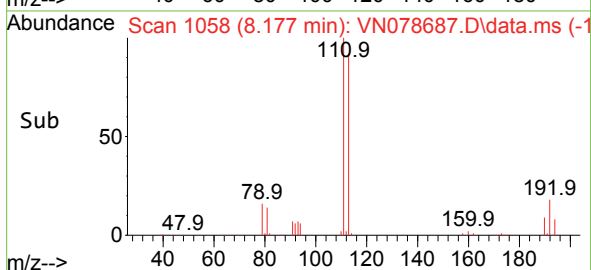
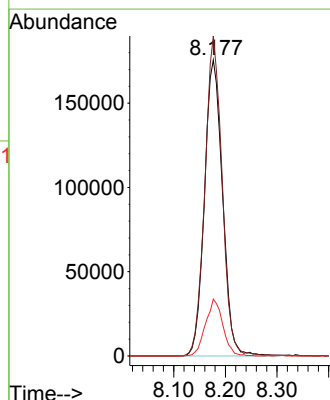
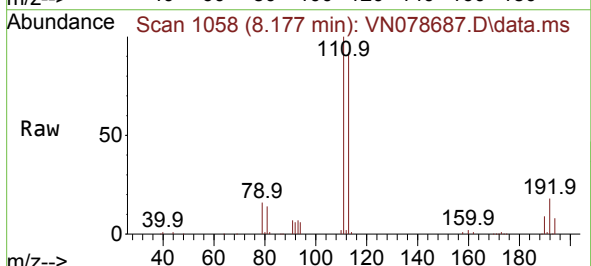
Tgt Ion:113 Resp: 426317

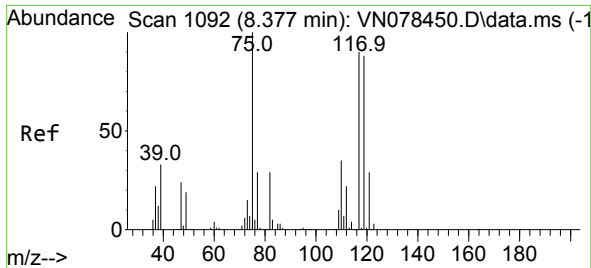
Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 18.5 12.7 19.1

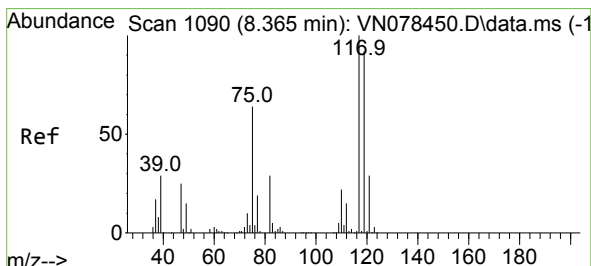
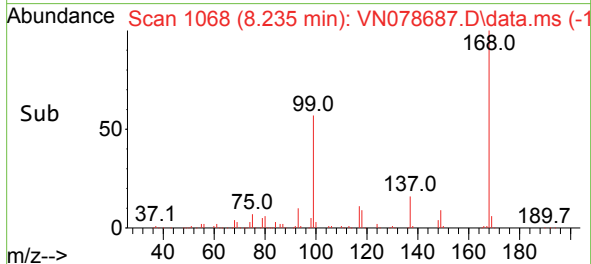
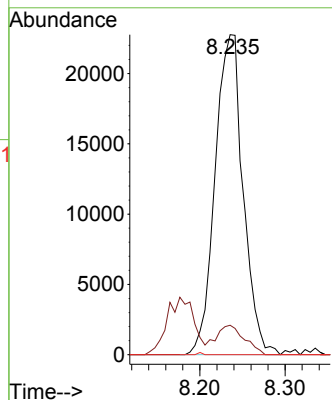
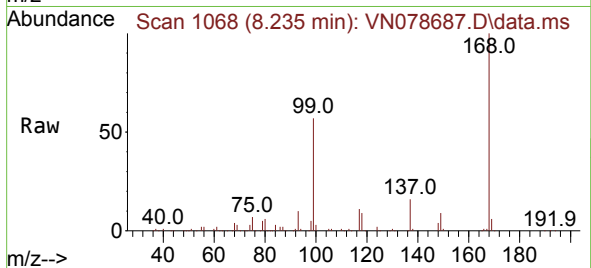




#36
1,1-Dichloropropene
Concen: 4.389 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

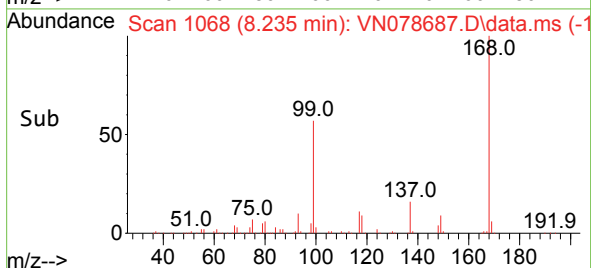
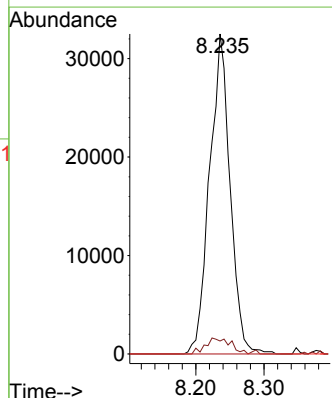
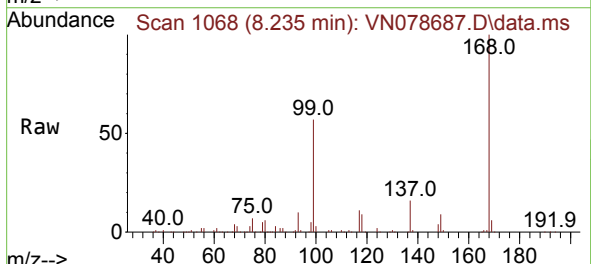
Instrument :
MSVOA_N
ClientSampleId :
MW-20-20230727

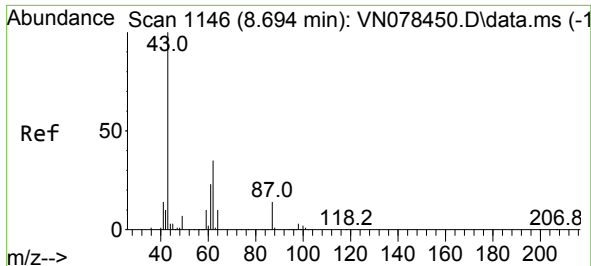
Tgt Ion: 75 Resp: 52076
Ion Ratio Lower Upper
75 100
110 9.4 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 5.279 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.130 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

Tgt Ion: 117 Resp: 68073
Ion Ratio Lower Upper
117 100
119 4.1 77.3 115.9#
121 0.0 23.3 34.9#

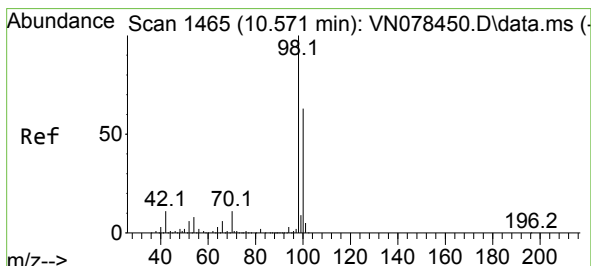
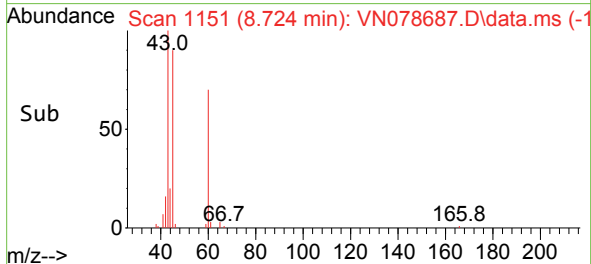
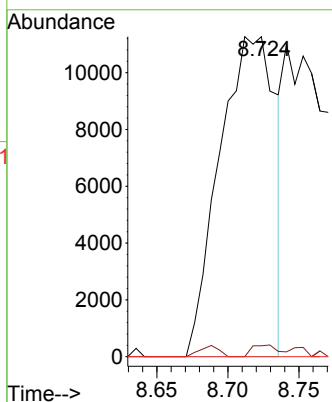
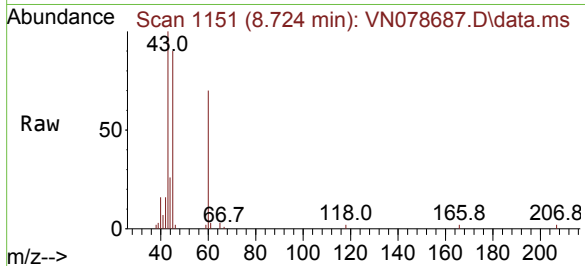




#43
Isopropyl Acetate
Concen: 1.892 ug/l
RT: 8.724 min Scan# 1151
Delta R.T. 0.030 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

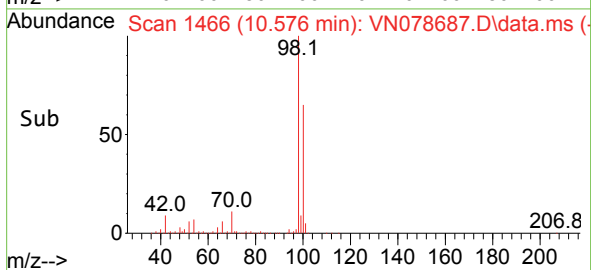
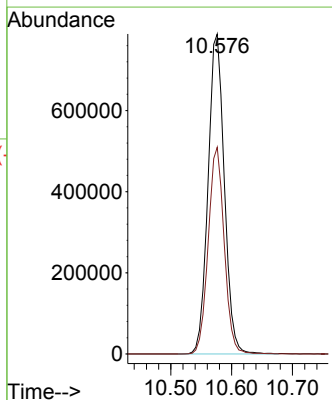
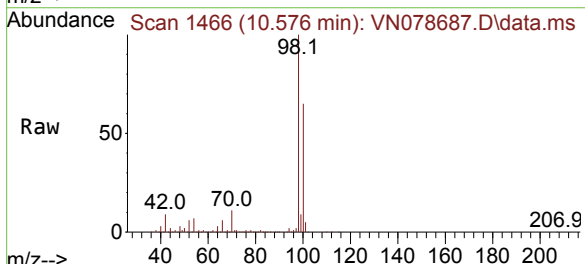
Instrument :
MSVOA_N
ClientSampleId :
MW-20-20230727

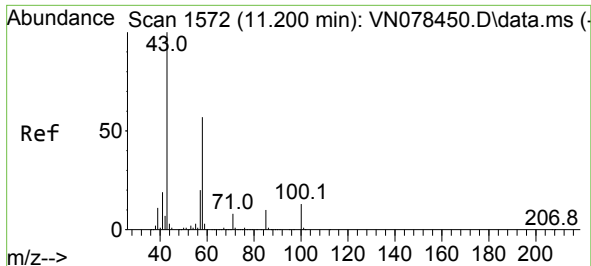
Tgt Ion: 43 Resp: 30805
Ion Ratio Lower Upper
43 100
61 1.8 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 47.164 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

Tgt Ion: 98 Resp: 1464119
Ion Ratio Lower Upper
98 100
100 63.5 52.0 78.0





#59

2-Hexanone

Concen: 0.448 ug/l

RT: 11.206 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN078687.D

Acq: 28 Jul 2023 16:04

Instrument :

MSVOA_N

ClientSampleId :

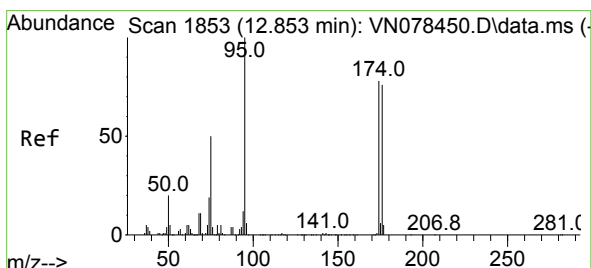
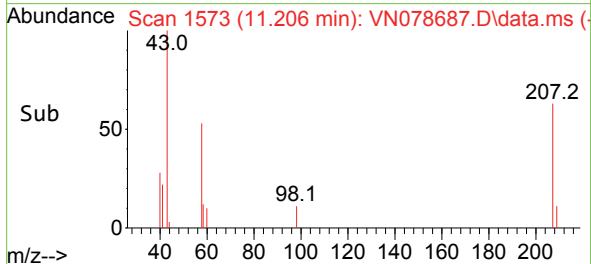
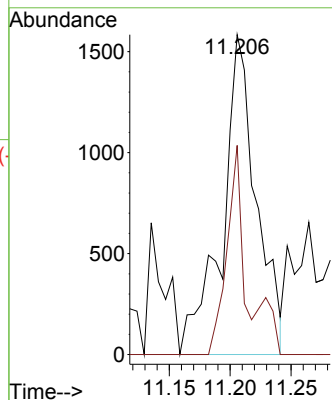
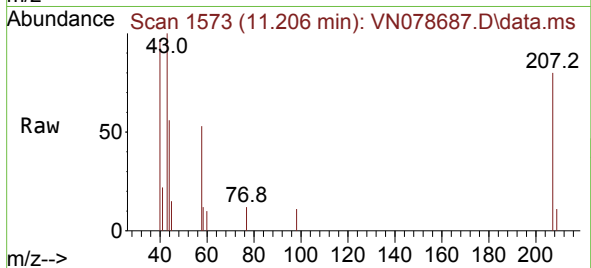
MW-20-20230727

Tgt Ion: 43 Resp: 3082

Ion Ratio Lower Upper

43 100

58 29.9 31.7 95.1#



#62

4-Bromofluorobenzene

Concen: 51.984 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN078687.D

Acq: 28 Jul 2023 16:04

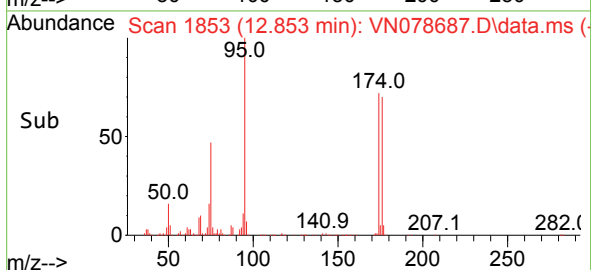
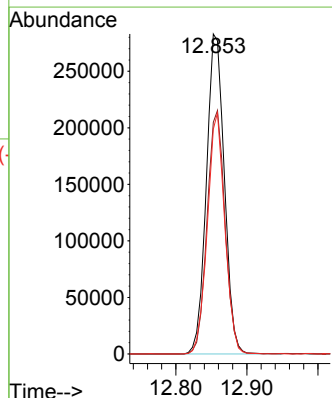
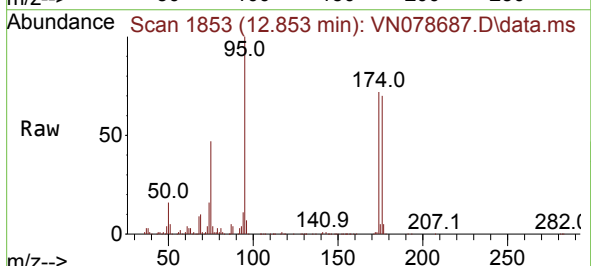
Tgt Ion: 95 Resp: 497065

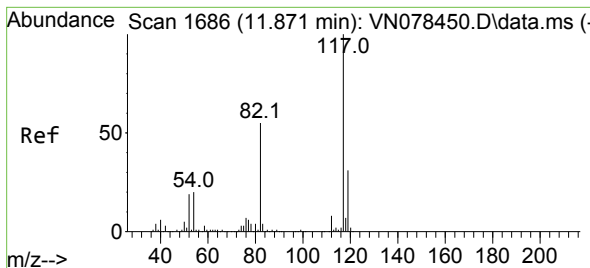
Ion Ratio Lower Upper

95 100

174 76.1 0.0 143.8

176 72.9 0.0 135.8

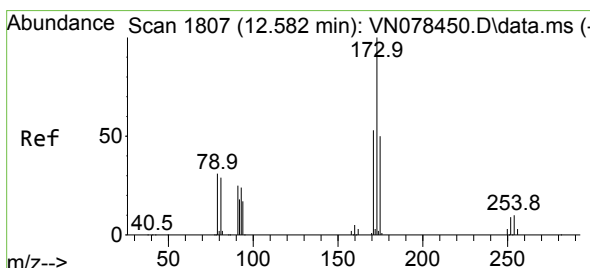
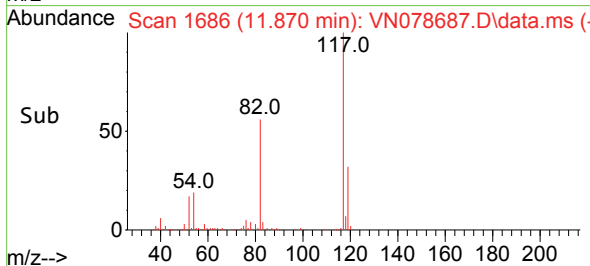
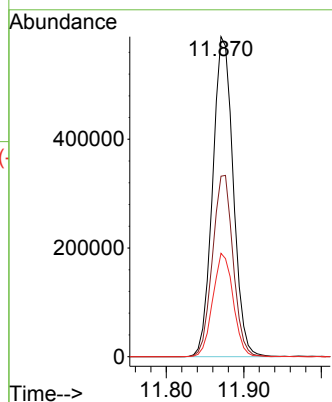
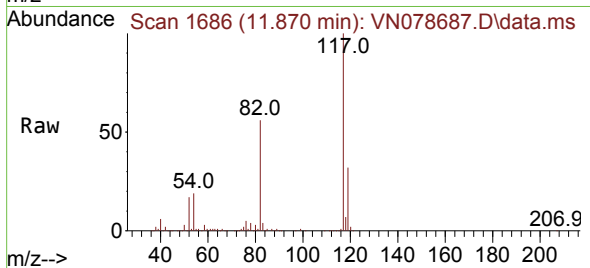




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

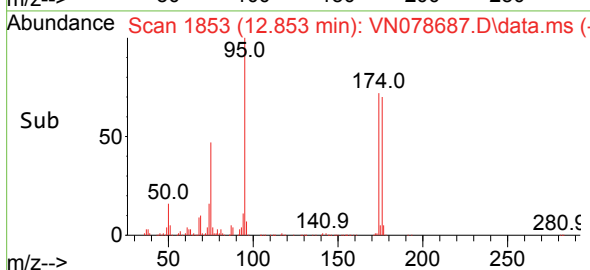
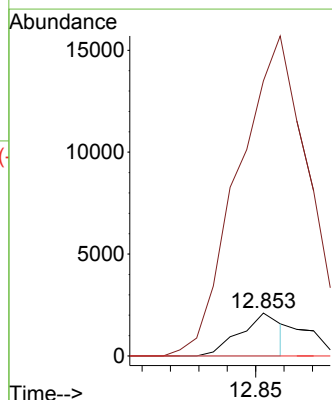
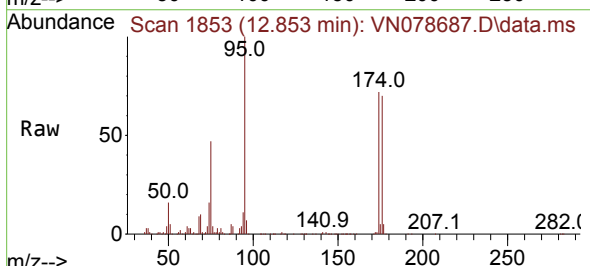
Instrument :
MSVOA_N
ClientSampleId :
MW-20-20230727

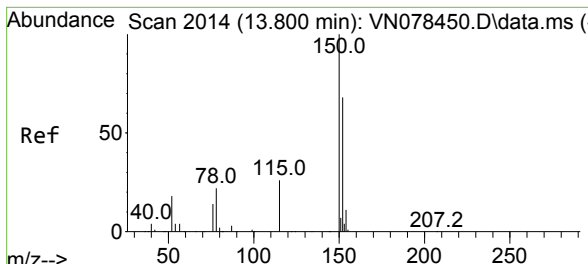
Tgt Ion:117 Resp: 1085134
Ion Ratio Lower Upper
117 100
82 56.4 44.0 66.0
119 32.3 25.6 38.4



#71
Bromoform
Concen: 0.338 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

Tgt Ion:173 Resp: 2134
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

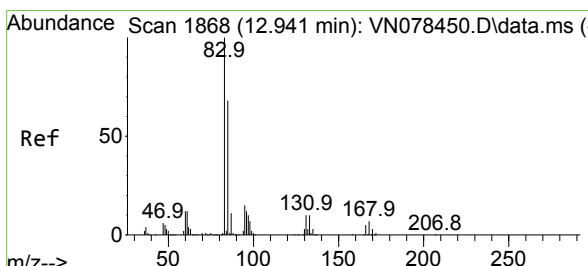
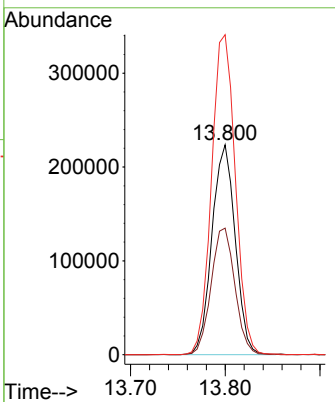
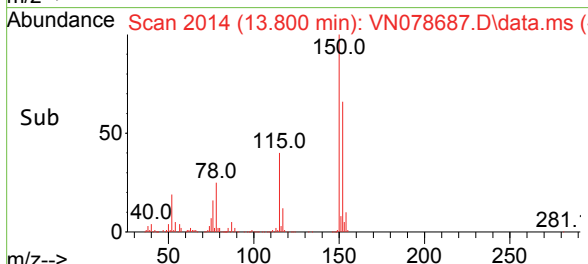
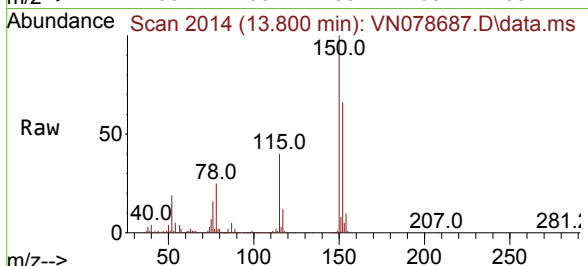




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN078687.D
 Acq: 28 Jul 2023 16:04

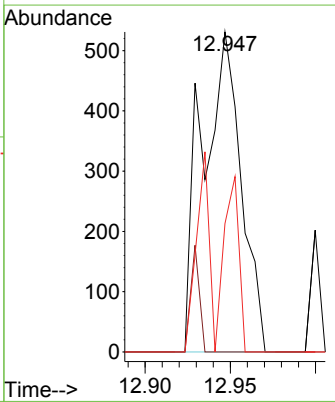
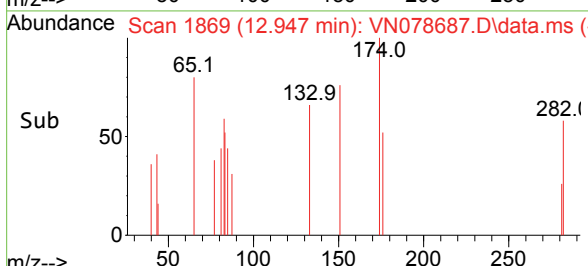
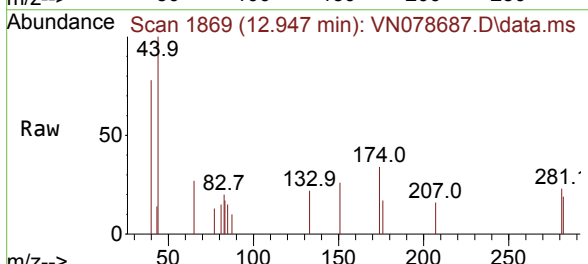
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-20-20230727

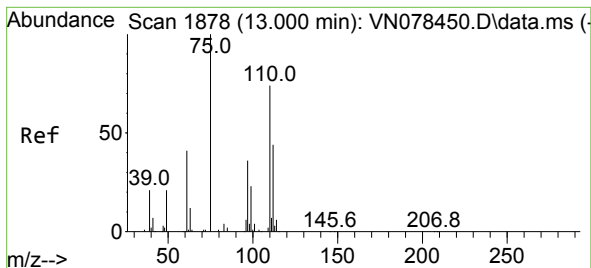
Tgt Ion:	152	Resp:	382069
Ion Ratio	Lower	Upper	
152	100		
115	61.6	32.3	96.8
150	156.0	0.0	355.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.947 min Scan# 1869
 Delta R.T. 0.006 min
 Lab File: VN078687.D
 Acq: 28 Jul 2023 16:04

Tgt Ion:	83	Resp:	842
Ion Ratio	Lower	Upper	
83	100		
131	0.0	5.0	15.0#
85	21.1	31.9	95.7#





#76

1,2,3-Trichloropropane

Concen: 26.186 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078687.D

Acq: 28 Jul 2023 16:04

Instrument :

MSVOA_N

ClientSampleId :

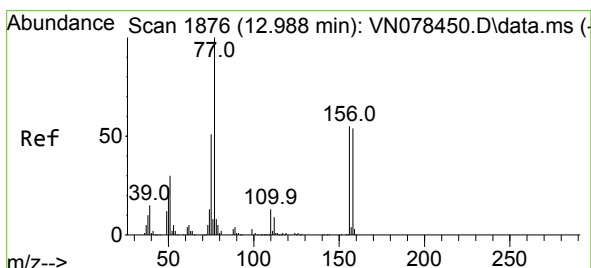
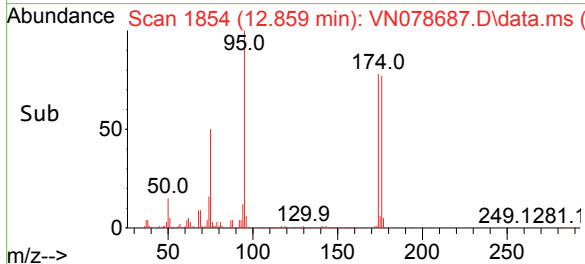
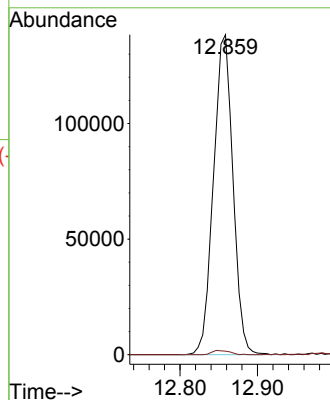
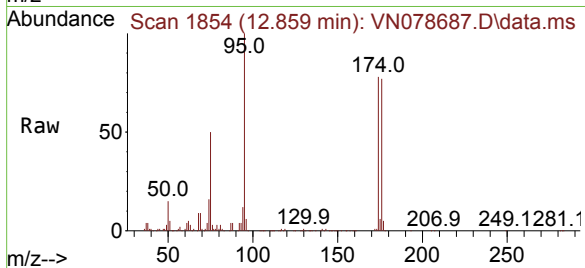
MW-20-20230727

Tgt Ion: 75 Resp: 241826

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.994 min Scan# 1877

Delta R.T. 0.006 min

Lab File: VN078687.D

Acq: 28 Jul 2023 16:04

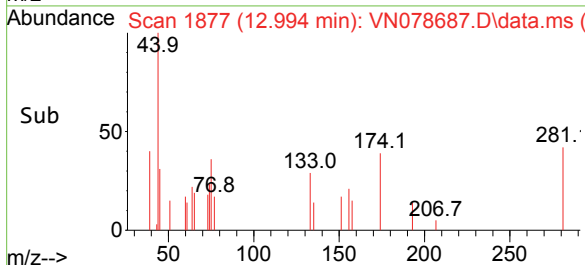
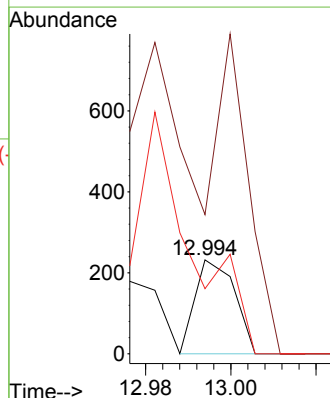
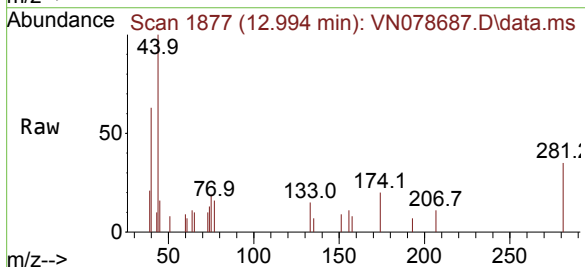
Tgt Ion:156 Resp: 149

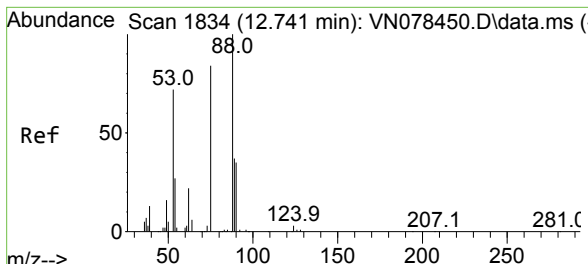
Ion Ratio Lower Upper

156 100

77 0.0 107.7 323.3#

158 0.0 48.4 145.3#

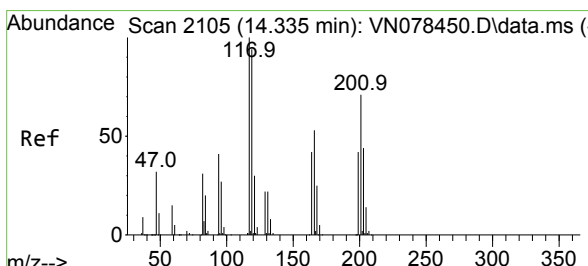
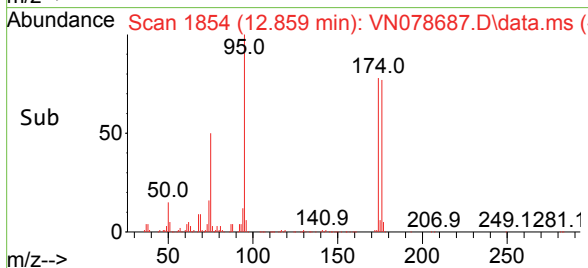
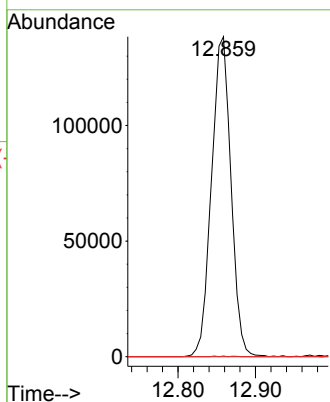
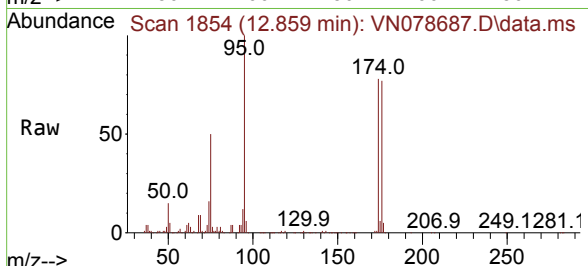




#81
trans-1,4-Dichloro-2-butene
Concen: 68.811 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

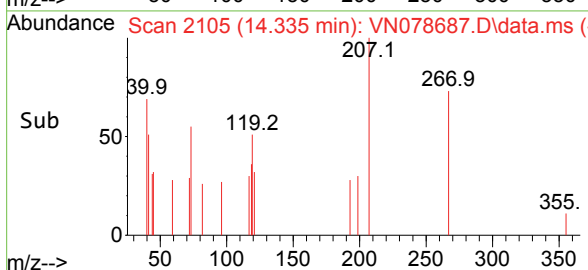
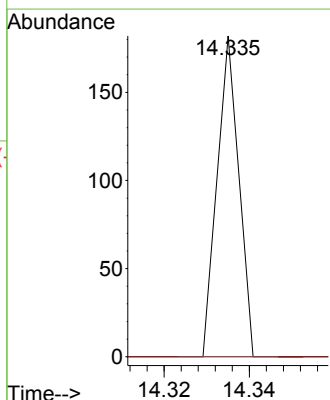
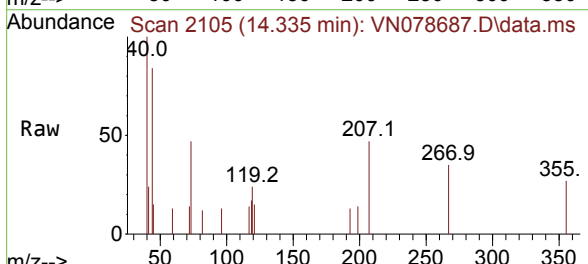
Instrument :
MSVOA_N
ClientSampleId :
MW-20-20230727

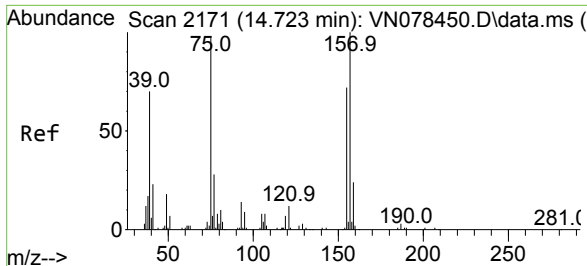
Tgt Ion: 75 Resp: 241826
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN078687.D
Acq: 28 Jul 2023 16:04

Tgt Ion: 117 Resp: 64
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#

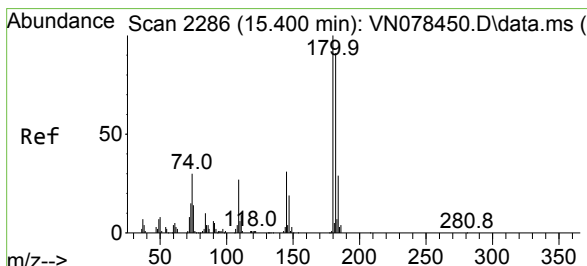
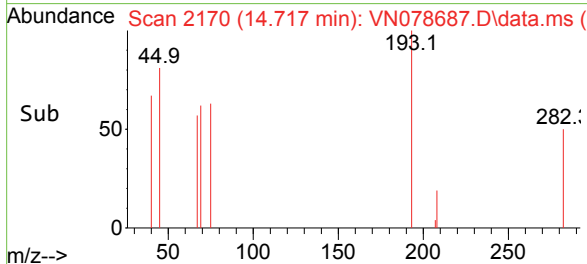
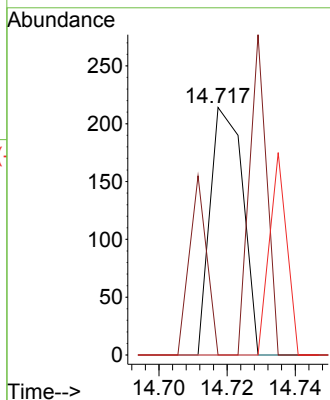
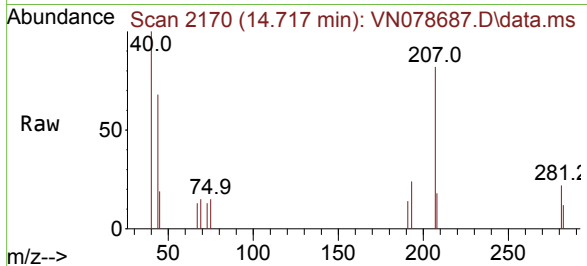




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.717 min Scan# 2171
 Delta R.T. -0.006 min
 Lab File: VN078687.D
 Acq: 28 Jul 2023 16:04

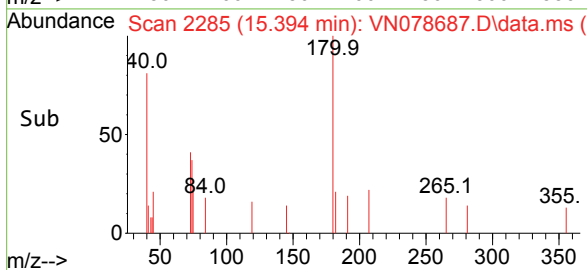
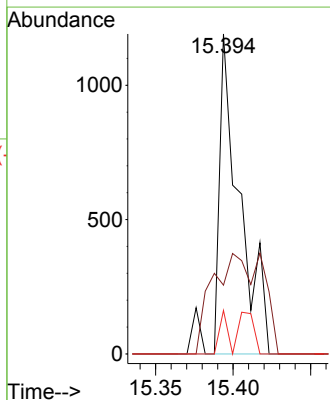
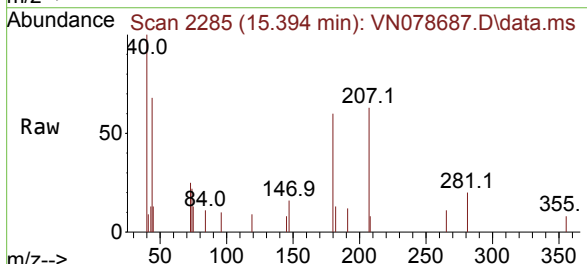
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-20-20230727

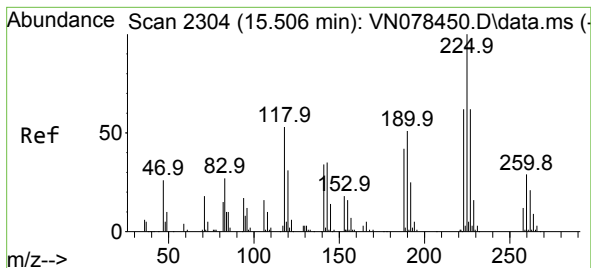
Tgt Ion: 75 Resp: 143
 Ion Ratio Lower Upper
 75 100
 155 38.5 39.1 117.2#
 157 0.0 50.3 150.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.255 ug/l
 RT: 15.394 min Scan# 2285
 Delta R.T. -0.006 min
 Lab File: VN078687.D
 Acq: 28 Jul 2023 16:04

Tgt Ion: 180 Resp: 1116
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.1 138.2#
 145 14.8 16.6 49.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.506 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078687.D

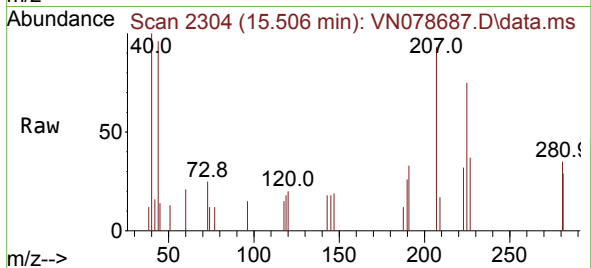
Acq: 28 Jul 2023 16:04

Instrument :

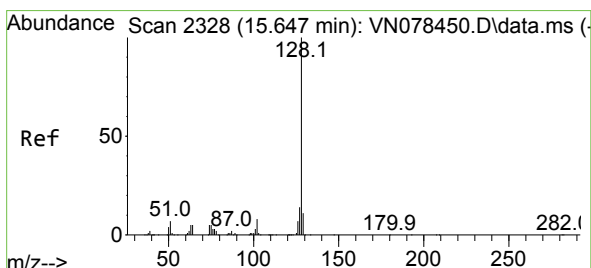
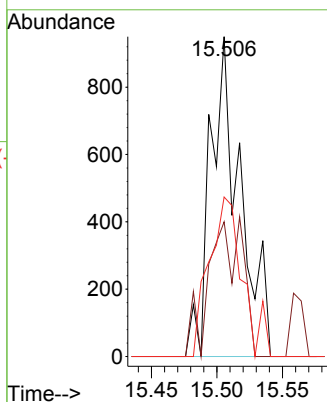
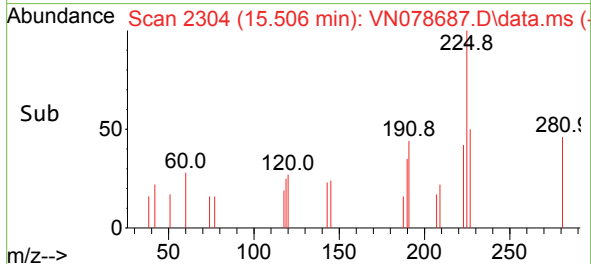
MSVOA_N

ClientSampleId :

MW-20-20230727



Tgt Ion:	225	Resp:	1491
Ion Ratio	Lower	Upper	
225	100		
223	48.8	31.3	93.8
227	56.0	31.9	95.9



#95

Naphthalene

Concen: 0.303 ug/l

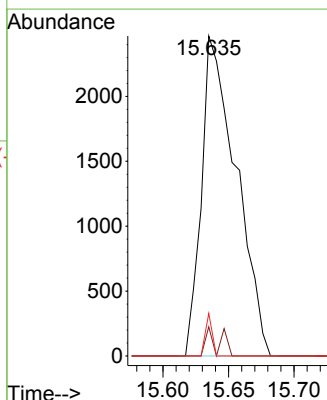
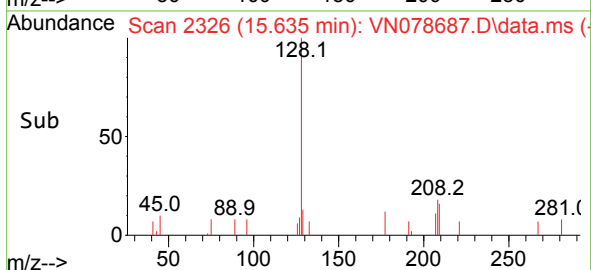
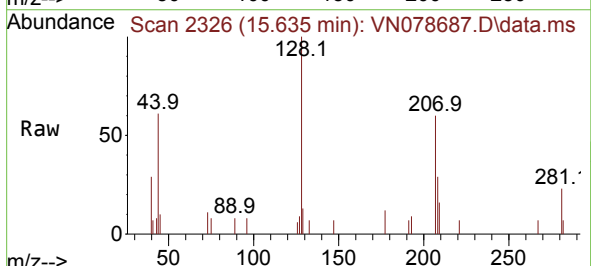
RT: 15.635 min Scan# 2326

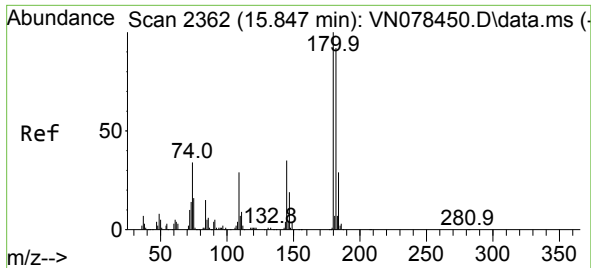
Delta R.T. -0.012 min

Lab File: VN078687.D

Acq: 28 Jul 2023 16:04

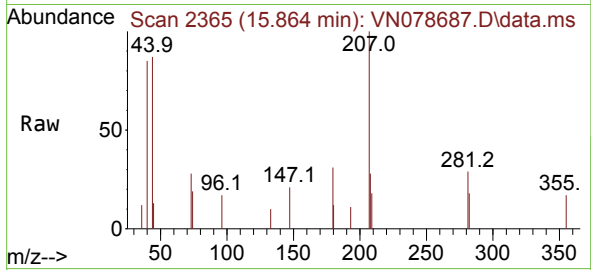
Tgt Ion:	128	Resp:	4529
Ion Ratio	Lower	Upper	
128	100		
127	3.4	10.0	15.0#
129	2.6	8.7	13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.262 ug/l
 RT: 15.864 min Scan# 21
 Delta R.T. 0.017 min
 Lab File: VN078687.D
 Acq: 28 Jul 2023 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-20-20230727



Tgt Ion:180 Resp: 1321
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.2 138.6#
 145 0.0 17.5 52.6#

