

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072823\
 Data File : VN078690.D
 Acq On : 28 Jul 2023 17:17
 Operator : JC\MD
 Sample : 03831-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-18-20230727

Quant Time: Jul 29 00:52:01 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)

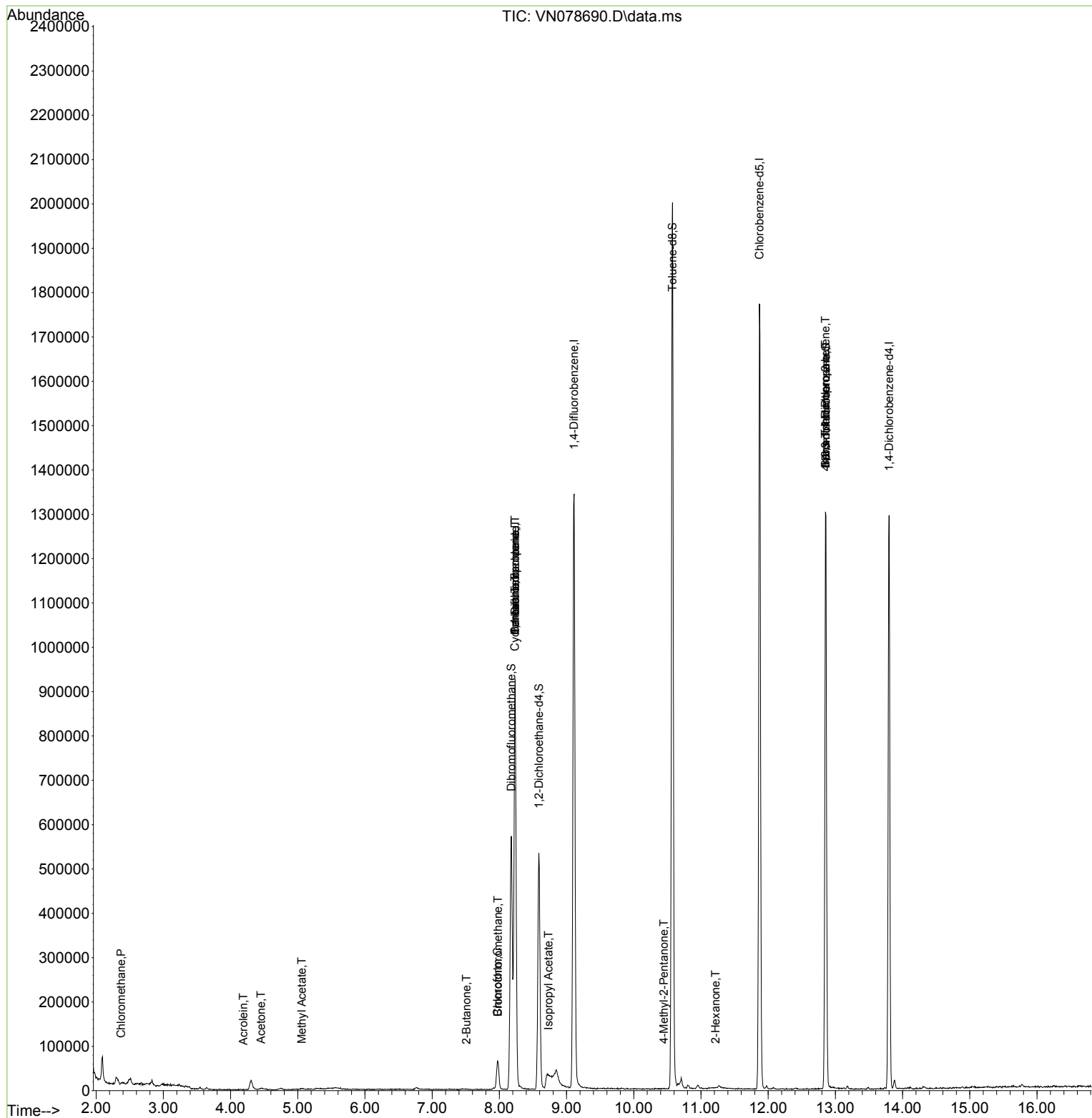
Internal Standards						
1) Pentafluorobenzene	8.235	168	683246	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	1227338	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	1104538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	375972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	439107	47.939	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.880%
35) Dibromofluoromethane	8.177	113	425299	51.047	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.100%
50) Toluene-d8	10.576	98	1485077	47.184	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.360%
62) 4-Bromofluorobenzene	12.859	95	493087	50.862	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.720%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	3613	0.397	ug/l	90
5) Bromomethane	2.977	94	1311	Below Cal		96
6) Chloroethane	3.112	64	2914	Below Cal	#	72
13) Acrolein	4.189	56	493	0.355	ug/l	100
16) Acetone	4.453	43	3140	1.101	ug/l	92
18) Methyl Acetate	5.059	43	4924	0.408	ug/l	# 62
20) Methylene Chloride	5.283	84	2109	Below Cal	#	48
25) 2-Butanone	7.512	43	1087	0.242	ug/l	# 80
28) Bromochloromethane	7.977	49	4158	0.594	ug/l	# 5
30) Chloroform	7.971	83	67816	4.382	ug/l	91
31) Cyclohexane	8.230	56	12715	1.027	ug/l	# 3
36) 1,1-Dichloropropene	8.235	75	51492	4.280	ug/l	# 49
38) Carbon Tetrachloride	8.235	117	70539	5.395	ug/l	# 17
43) Isopropyl Acetate	8.730	43	40989	2.483	ug/l	# 49
51) 4-Methyl-2-Pentanone	10.447	43	2372	0.242	ug/l	# 31
59) 2-Hexanone	11.218	43	2607	0.374	ug/l	# 42
71) Bromoform	12.853	173	2146	0.334	ug/l	# 28
75) 1,1,2,2-Tetrachloroethane	12.953	83	136	Below Cal	#	15
76) 1,2,3-Trichloropropane	12.853	75	244558	26.911	ug/l	# 1
77) Bromobenzene	12.994	156	166	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	244558	70.717	ug/l	# 15
90) Hexachloroethane	14.347	117	86	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.735	75	82	Below Cal	#	4
94) Hexachlorobutadiene	15.511	225	156	Below Cal	#	17

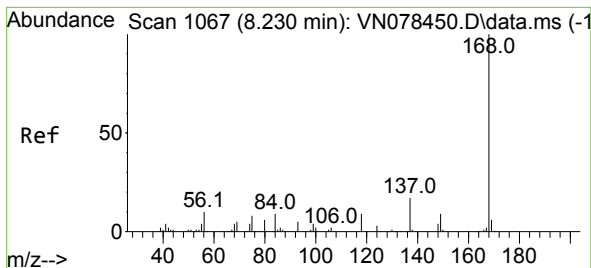
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN078690.D

Acq: 28 Jul 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

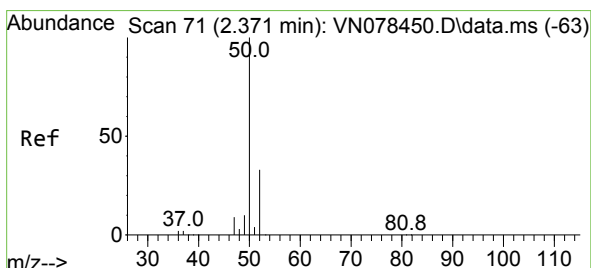
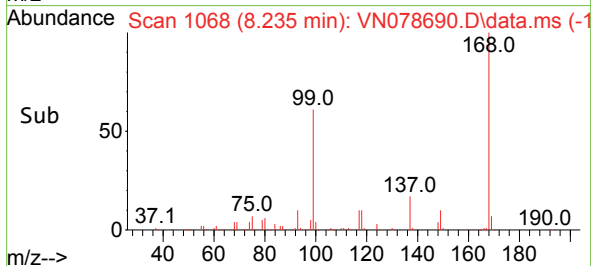
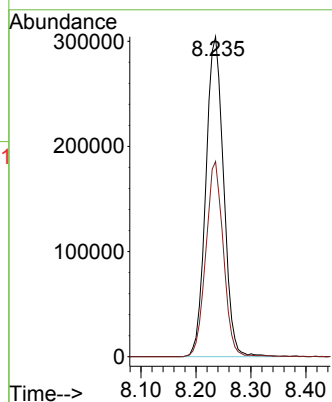
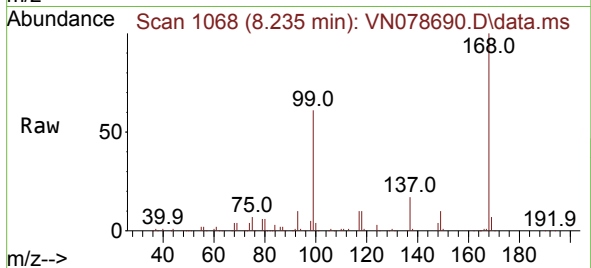
MW-18-20230727

Tgt Ion:168 Resp: 683246

Ion Ratio Lower Upper

168 100

99 61.0 53.0 79.6



#3

Chloromethane

Concen: 0.397 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078690.D

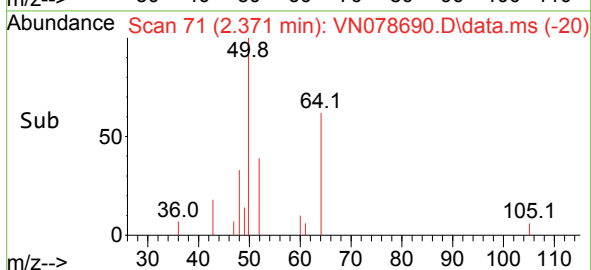
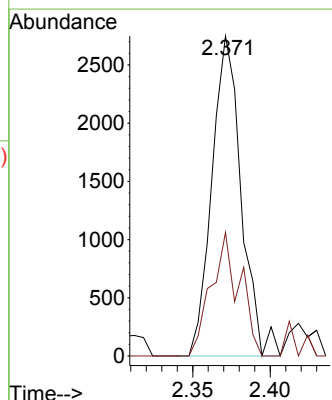
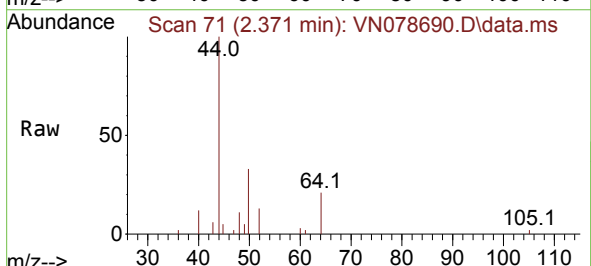
Acq: 28 Jul 2023 17:17

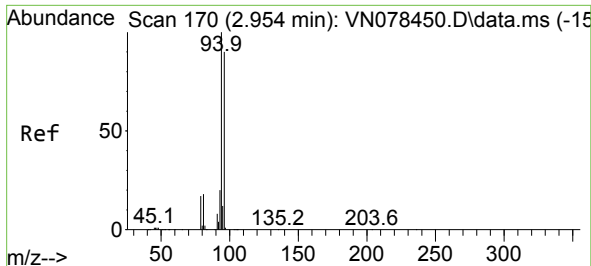
Tgt Ion: 50 Resp: 3613

Ion Ratio Lower Upper

50 100

52 38.6 26.5 39.7

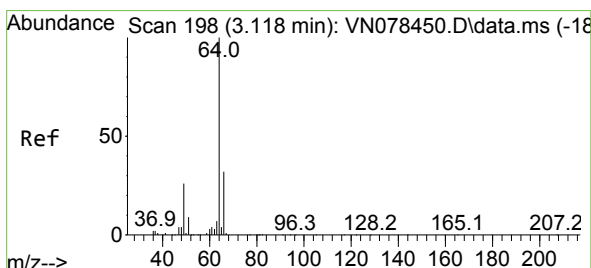
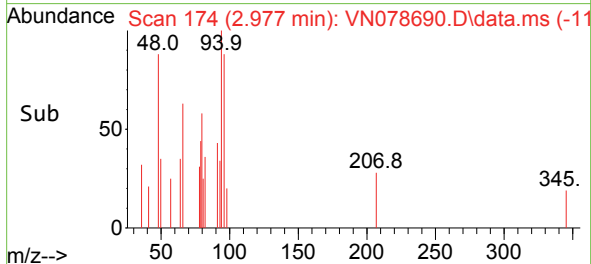
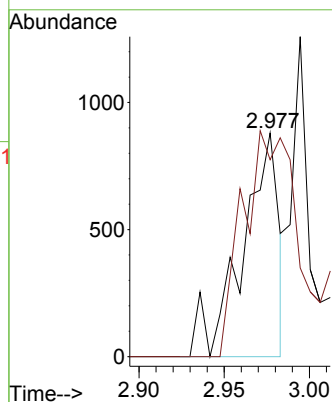
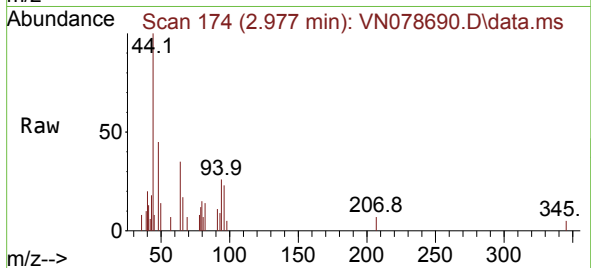




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

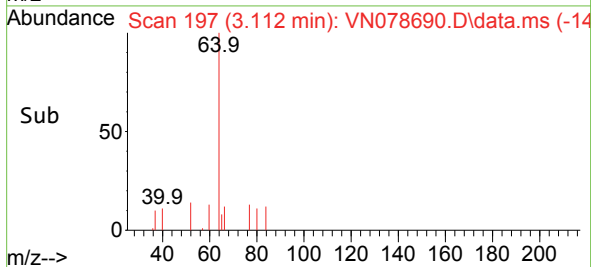
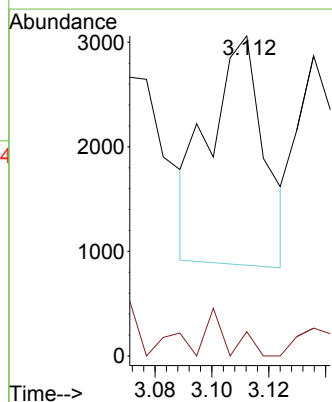
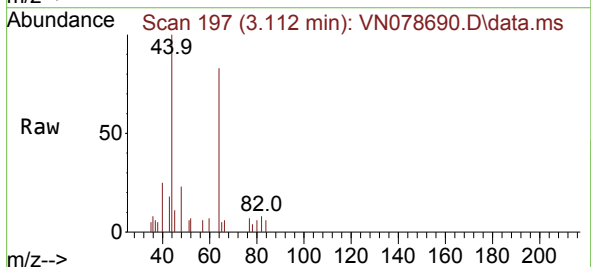
Instrument :
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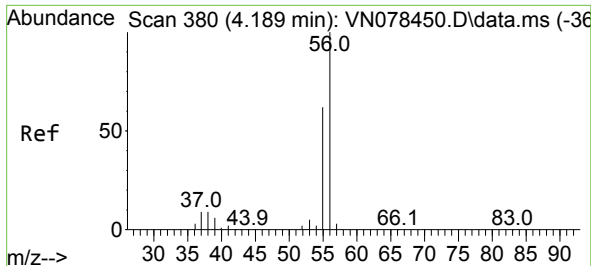
Tgt Ion: 94 Resp: 1311
Ion Ratio Lower Upper
94 100
96 88.1 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 64 Resp: 2914
Ion Ratio Lower Upper
64 100
66 16.2 25.4 38.2#

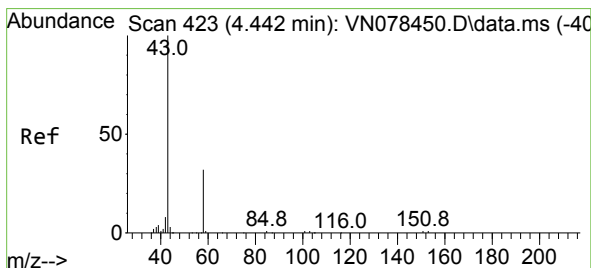
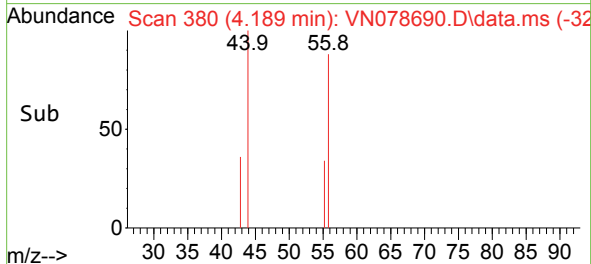
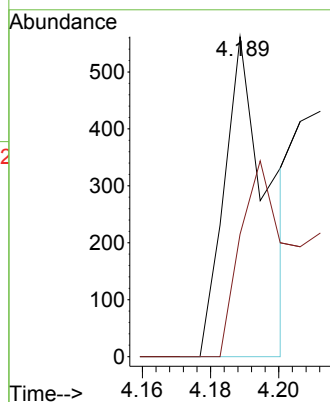
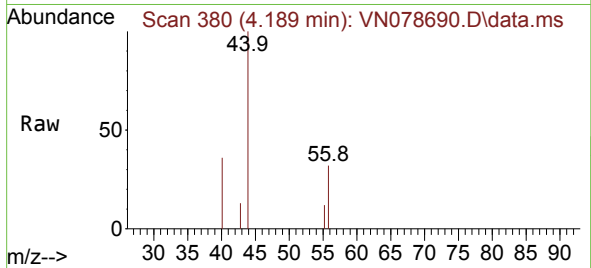




#13
Acrolein
Concen: 0.355 ug/l
RT: 4.189 min Scan# 380
Delta R.T. -0.000 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

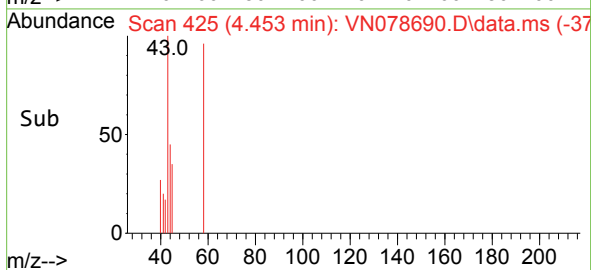
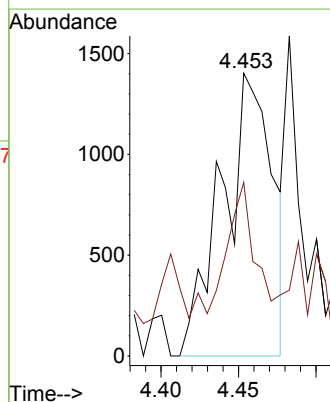
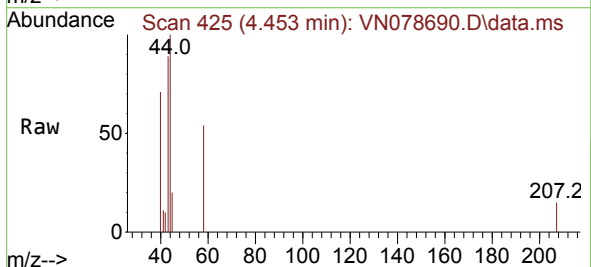
Instrument :
MSVOA_N
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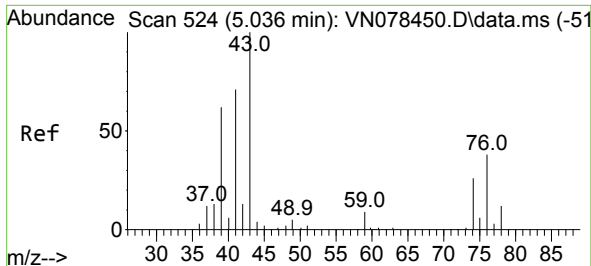
Tgt Ion: 56 Resp: 493
Ion Ratio Lower Upper
56 100
55 68.2 54.5 81.7



#16
Acetone
Concen: 1.101 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.011 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 43 Resp: 3140
Ion Ratio Lower Upper
43 100
58 39.8 28.0 42.0

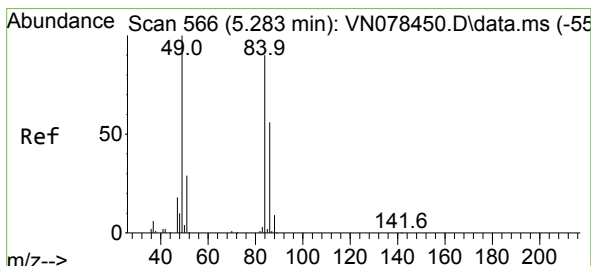
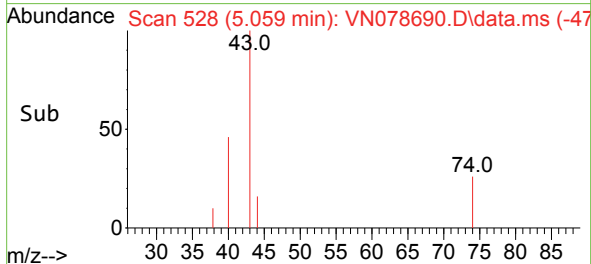
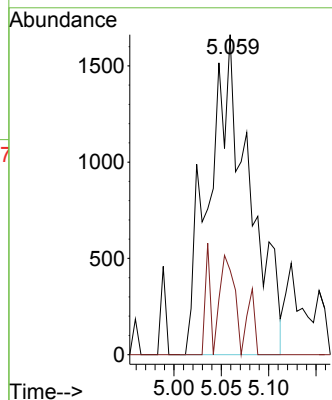
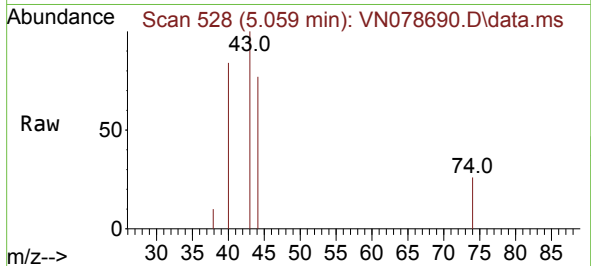




#18
Methyl Acetate
Concen: 0.408 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

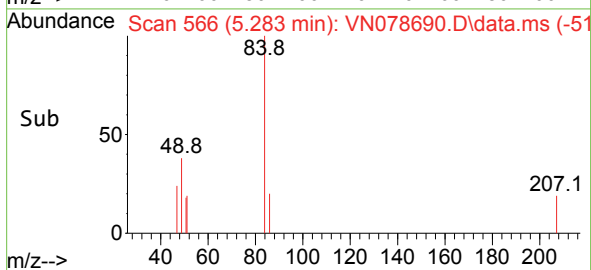
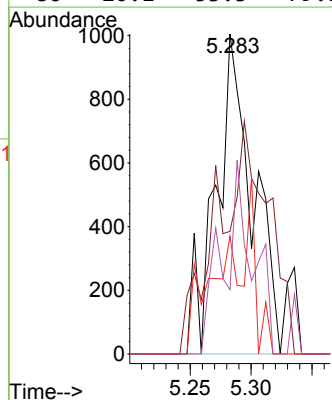
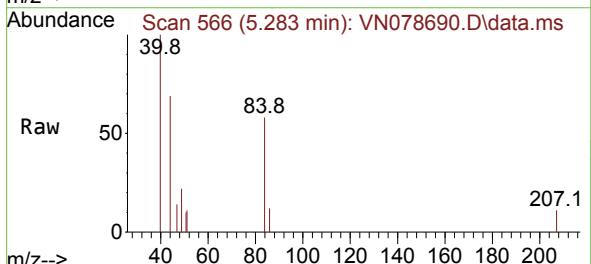
Instrument :
MSVOA_N
ClientSampleId :
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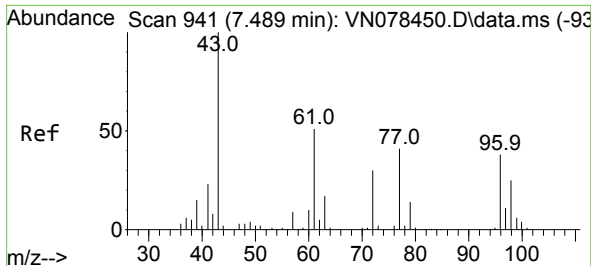
Tgt Ion: 43 Resp: 4924
Ion Ratio Lower Upper
43 100
74 11.3 26.2 39.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 84 Resp: 2109
Ion Ratio Lower Upper
84 100
49 38.3 79.7 119.5#
51 36.8 25.2 37.8
86 20.1 53.3 79.9#

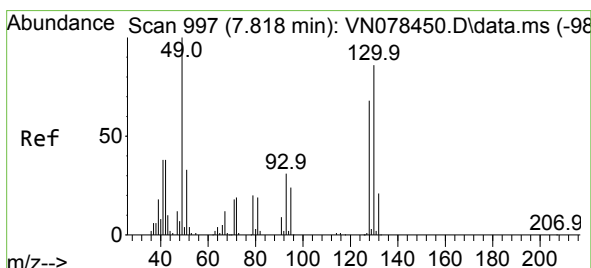
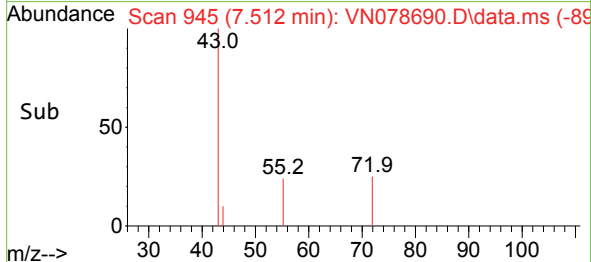
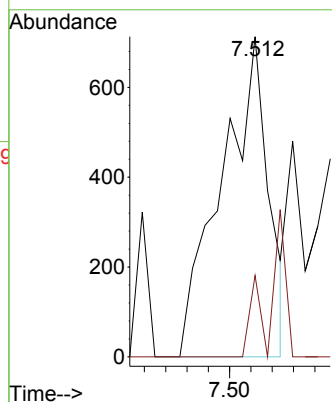
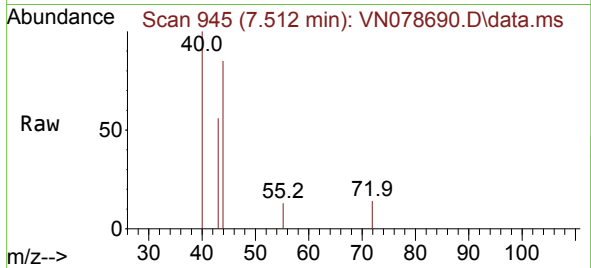




#25
2-Butanone
Concen: 0.242 ug/l
RT: 7.512 min Scan# 941
Delta R.T. 0.023 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

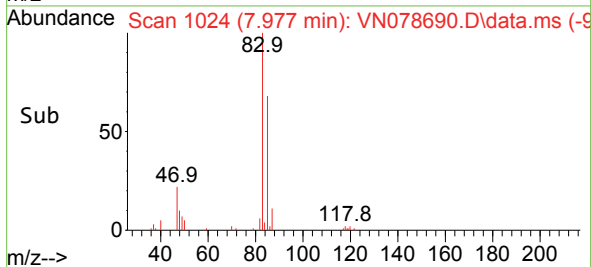
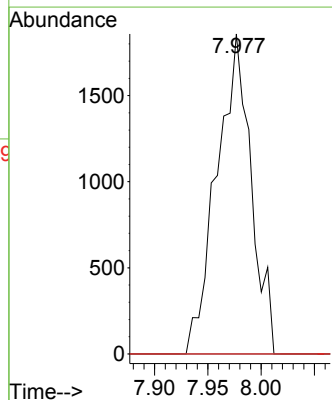
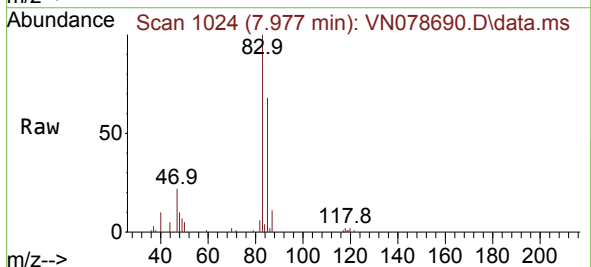
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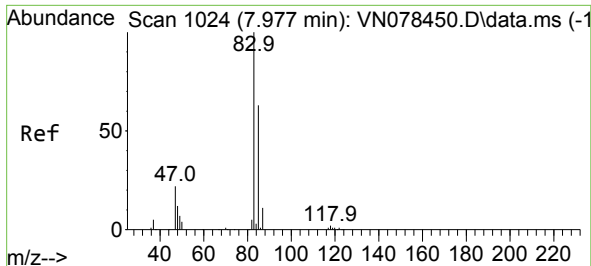
Tgt Ion: 43 Resp: 1087
Ion Ratio Lower Upper
43 100
72 25.4 30.2 45.2#



#28
Bromochloromethane
Concen: 0.594 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.159 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 49 Resp: 4158
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.8
130 0.0 75.3 112.9#

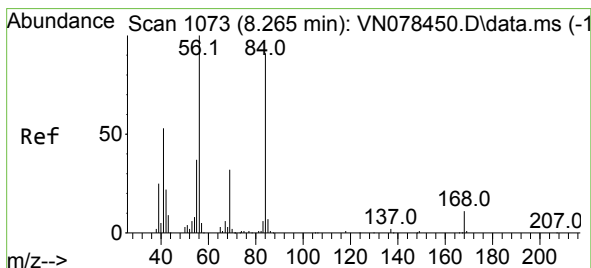
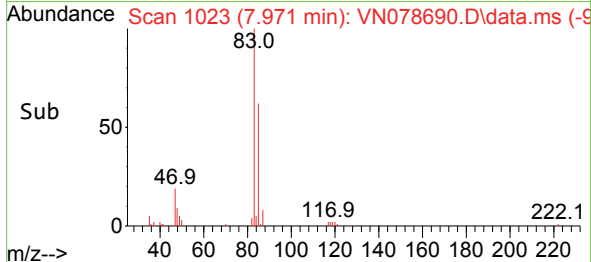
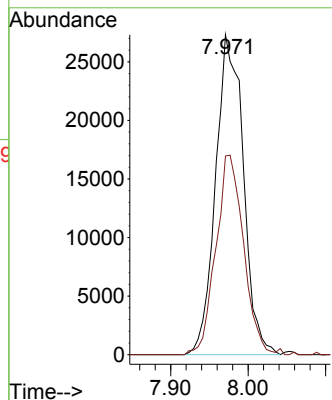
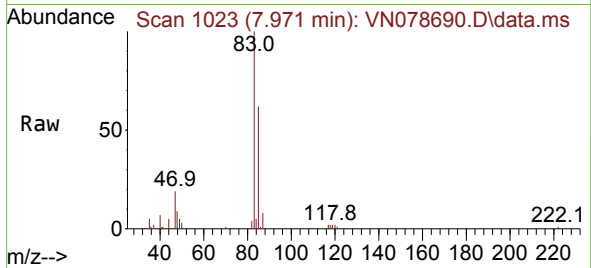




#30
Chloroform
Concen: 4.382 ug/l
RT: 7.971 min Scan# 1067
Delta R.T. -0.006 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

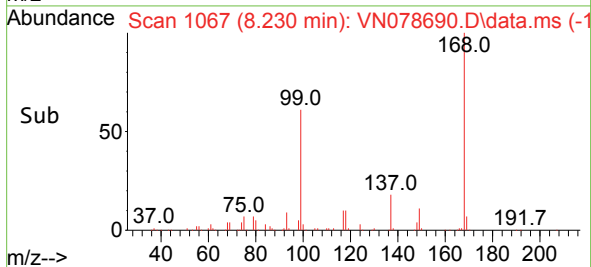
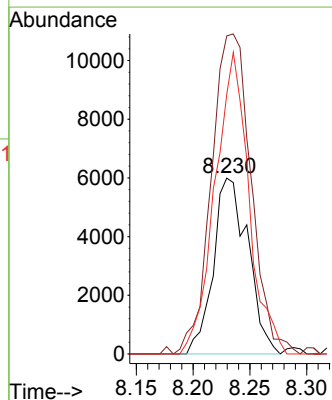
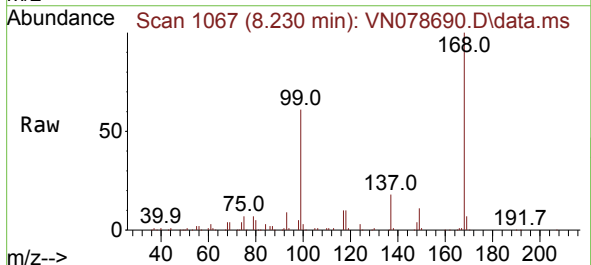
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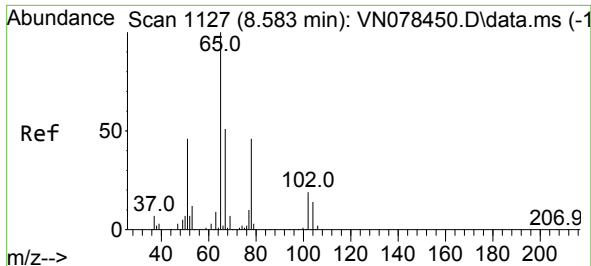
Tgt Ion: 83 Resp: 67816
Ion Ratio Lower Upper
83 100
85 62.1 55.4 83.0



#31
Cyclohexane
Concen: 1.027 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 56 Resp: 12715
Ion Ratio Lower Upper
56 100
69 178.1 26.8 40.2#
84 147.7 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 47.939 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078690.D

Acq: 28 Jul 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

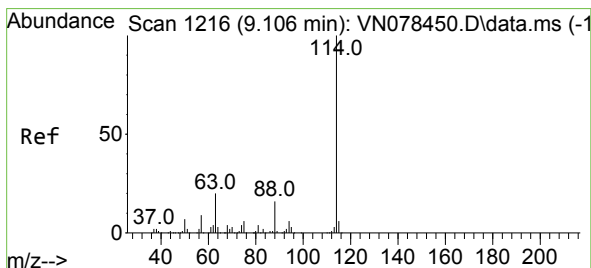
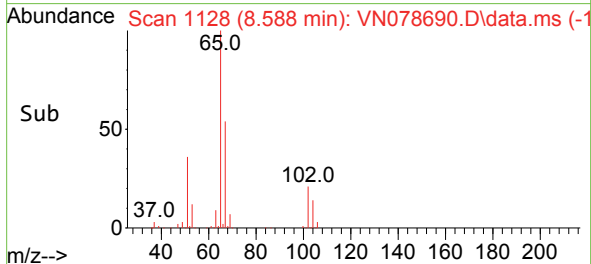
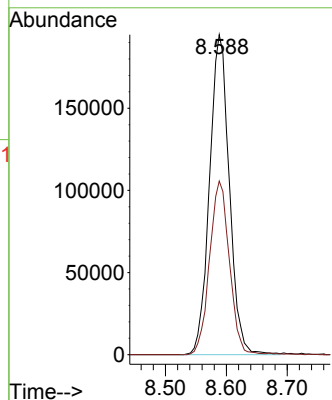
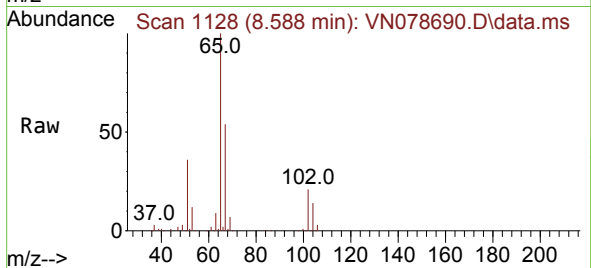
MW-18-20230727

Tgt Ion: 65 Resp: 439107

Ion Ratio Lower Upper

65 100

67 54.3 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: VN078690.D

Acq: 28 Jul 2023 17:17

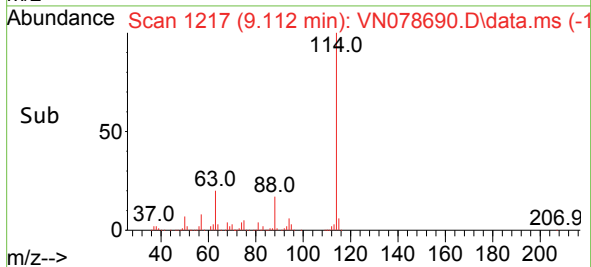
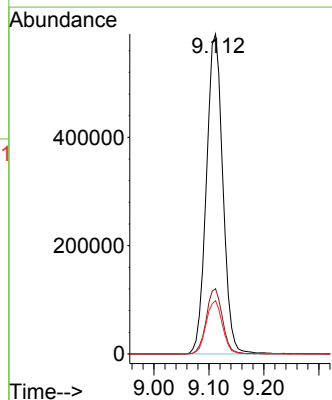
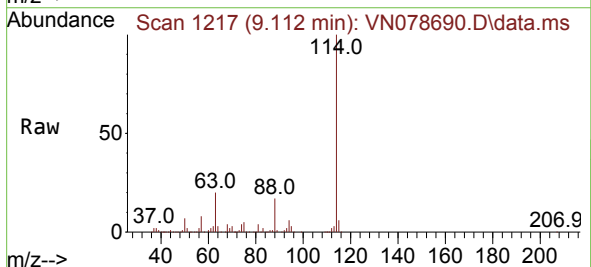
Tgt Ion: 114 Resp: 1227338

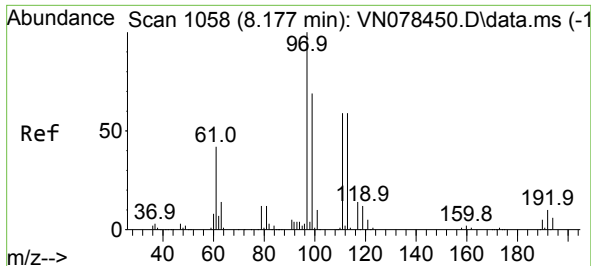
Ion Ratio Lower Upper

114 100

63 20.4 0.0 36.4

88 16.6 0.0 30.6

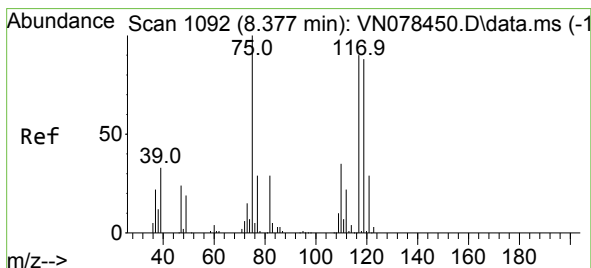
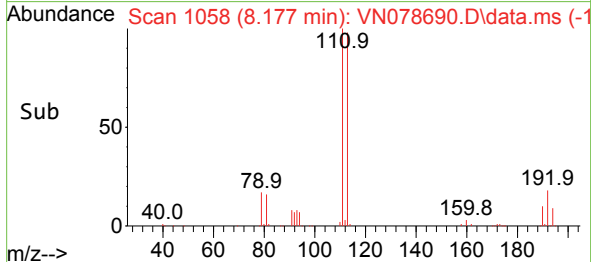
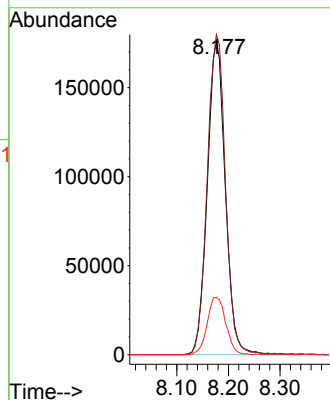
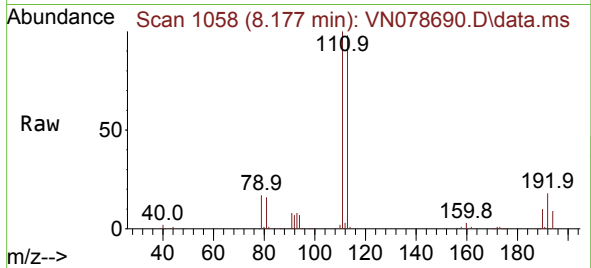




#35
Dibromofluoromethane
Concen: 51.047 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

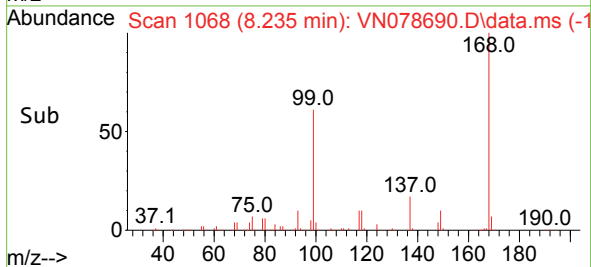
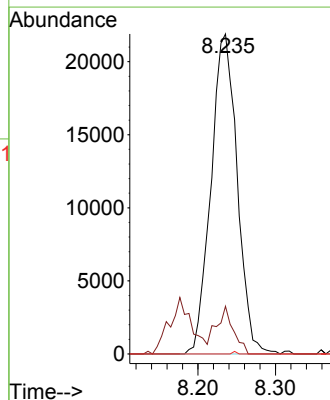
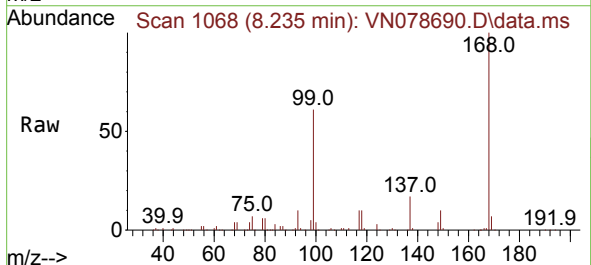
Instrument :
MSVOA_N
ClientSampleId :
MW-18-20230727

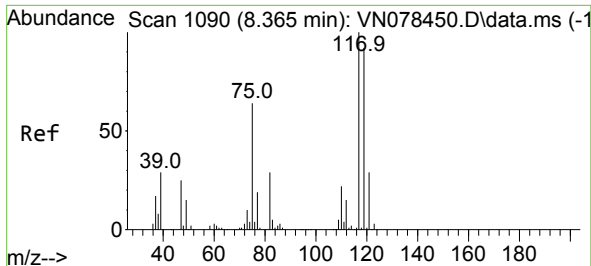
Tgt Ion:113 Resp: 425299
Ion Ratio Lower Upper
113 100
111 103.4 82.6 123.8
192 18.9 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.280 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 75 Resp: 51492
Ion Ratio Lower Upper
75 100
110 9.8 19.1 57.3#
77 0.1 25.0 37.4#

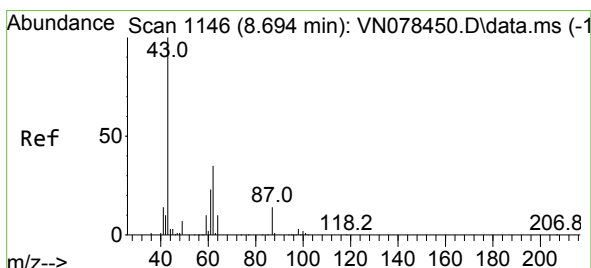
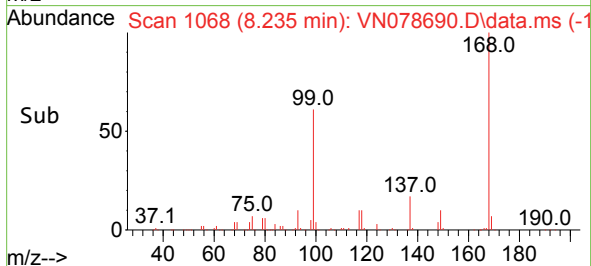
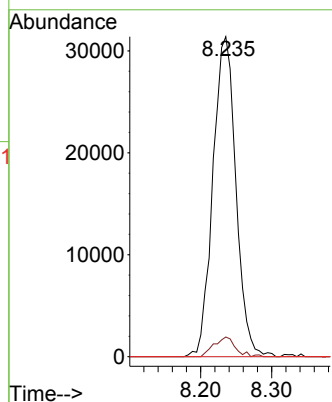
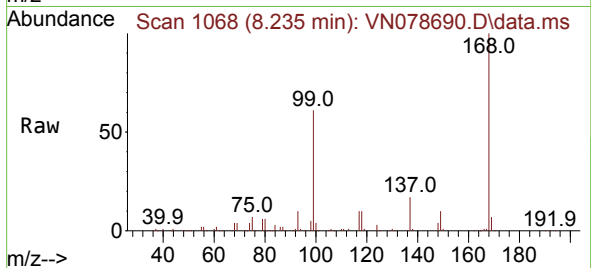




#38
Carbon Tetrachloride
Concen: 5.395 ug/l
RT: 8.235 min Scan# 1105
Delta R.T. -0.130 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

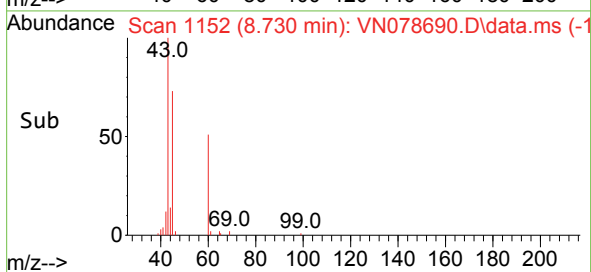
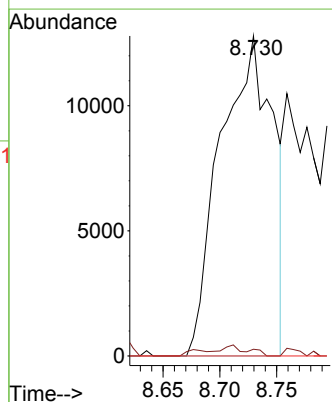
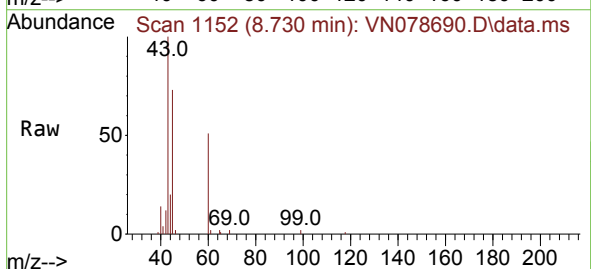
Instrument :
MSVOA_N
ClientSampleId :
MW-18-20230727

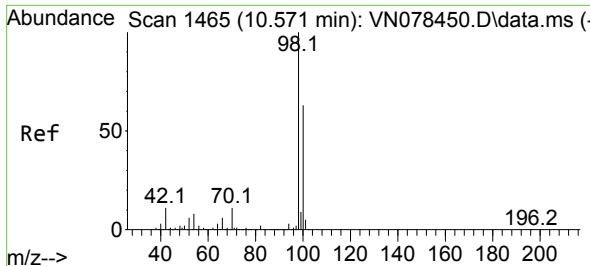
Tgt Ion:117 Resp: 70539
Ion Ratio Lower Upper
117 100
119 6.2 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 2.483 ug/l
RT: 8.730 min Scan# 1152
Delta R.T. 0.036 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 43 Resp: 40989
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#

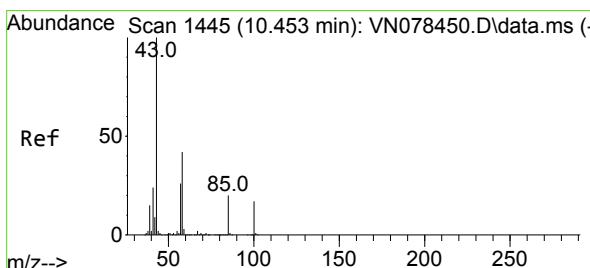
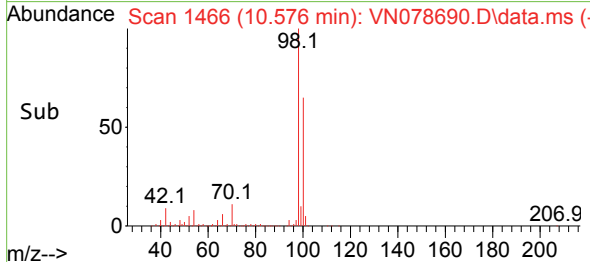
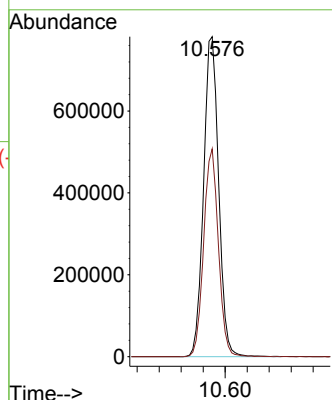
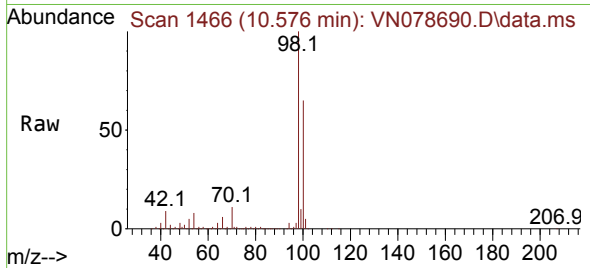




#50
Toluene-d8
Concen: 47.184 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

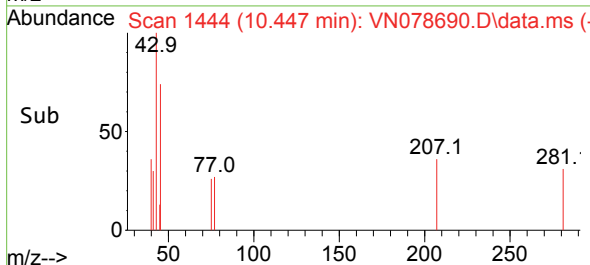
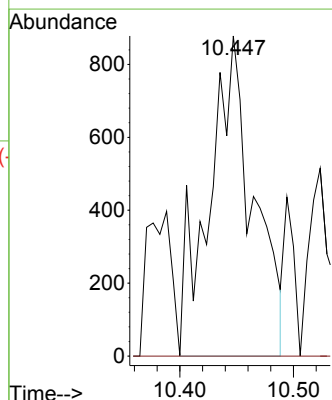
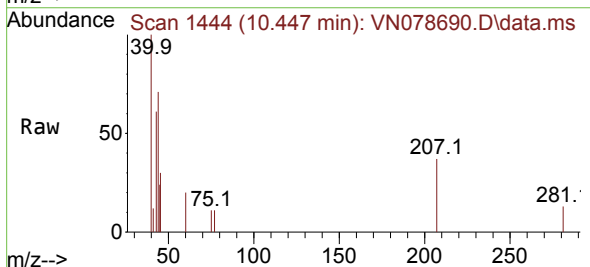
Instrument :
MSVOA_N
ClientSampleId :
MW-18-20230727

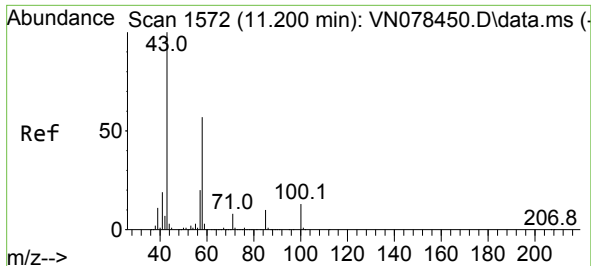
Tgt Ion: 98 Resp: 1485077
Ion Ratio Lower Upper
98 100
100 63.5 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.242 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 43 Resp: 2372
Ion Ratio Lower Upper
43 100
58 0.0 36.6 54.8#

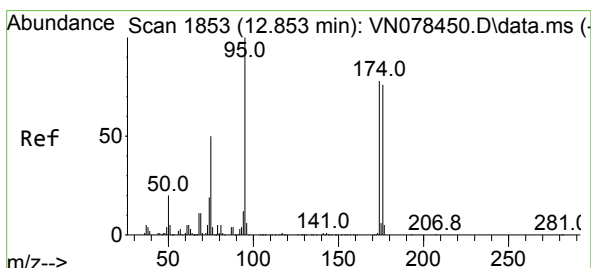
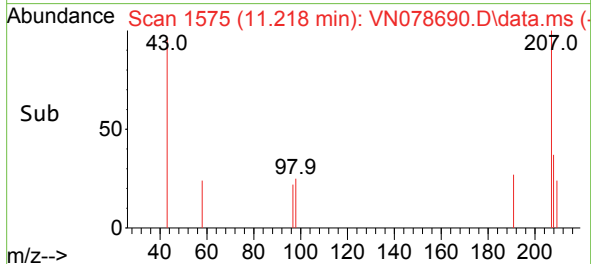
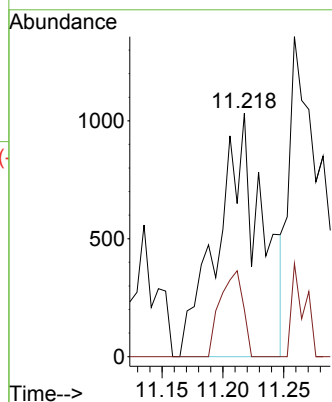
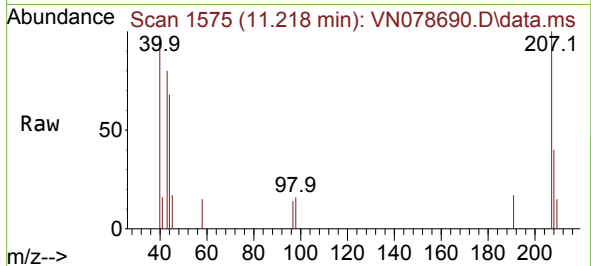




#59
2-Hexanone
Concen: 0.374 ug/l
RT: 11.218 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

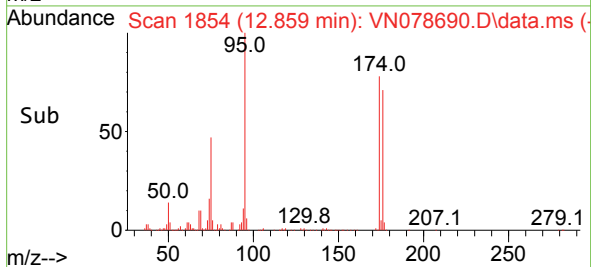
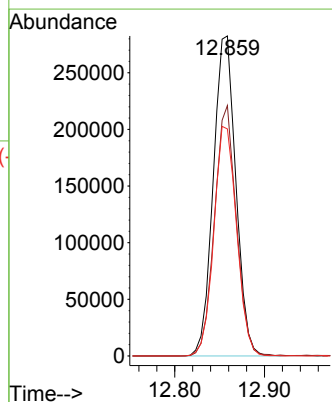
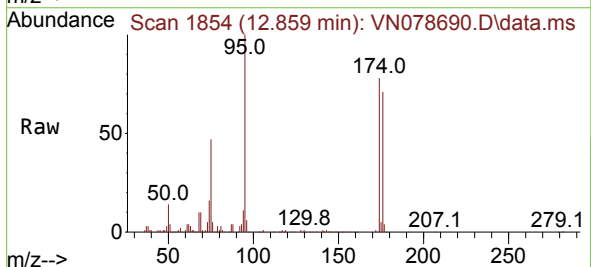
Instrument :
MSVOA_N
ClientSampleId :
MW-18-20230727

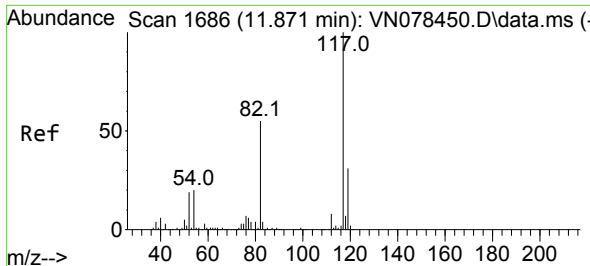
Tgt Ion: 43 Resp: 2607
Ion Ratio Lower Upper
43 100
58 18.3 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.862 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

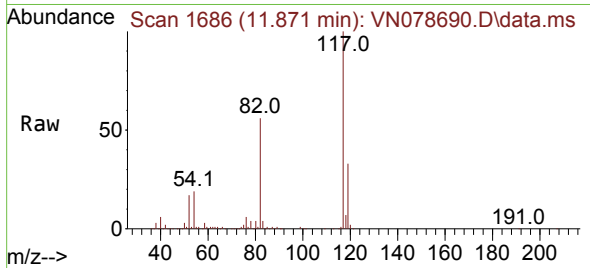
Tgt Ion: 95 Resp: 493087
Ion Ratio Lower Upper
95 100
174 76.0 0.0 143.8
176 72.4 0.0 135.8



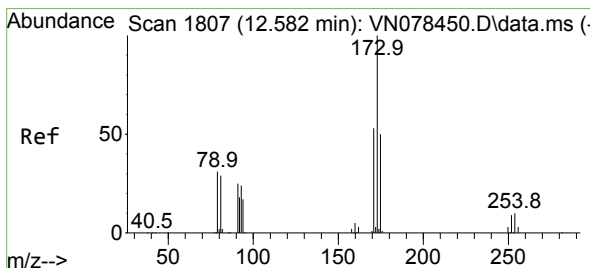
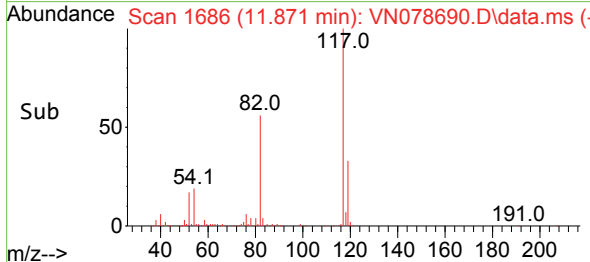
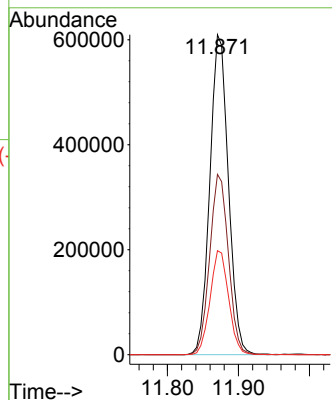


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1104
Delta R.T. -0.001 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Instrument :
MSVOA_N
ClientSampleId :
MW-18-20230727

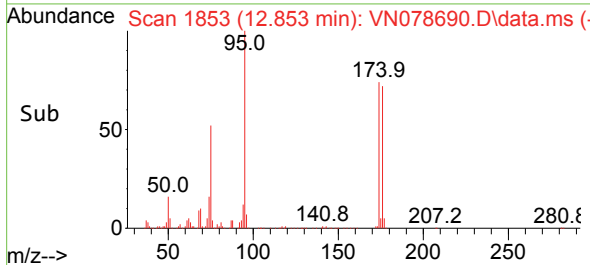
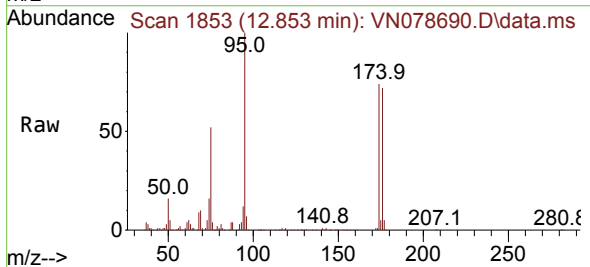
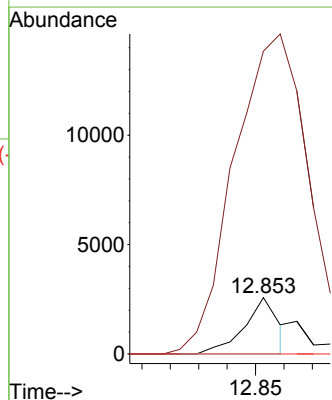


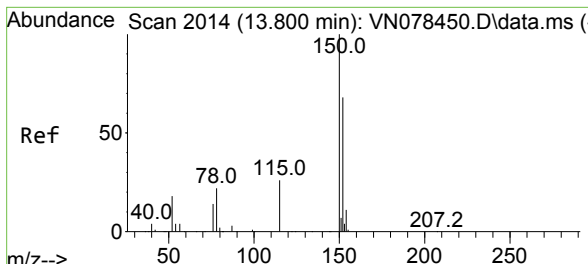
Tgt Ion:117 Resp: 1104538
Ion Ratio Lower Upper
117 100
82 56.3 44.0 66.0
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.334 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion:173 Resp: 2146
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

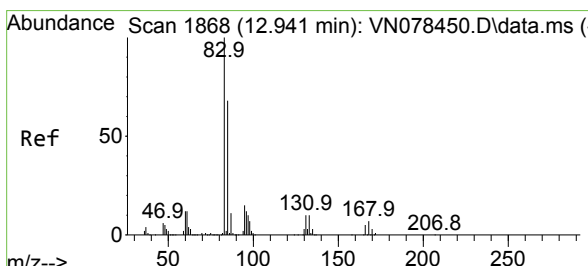
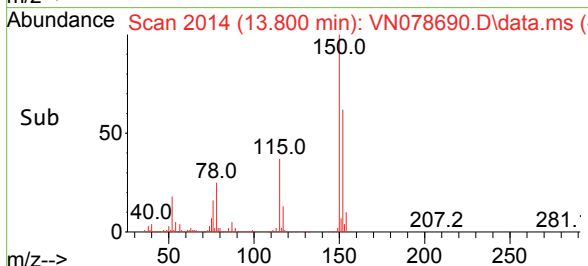
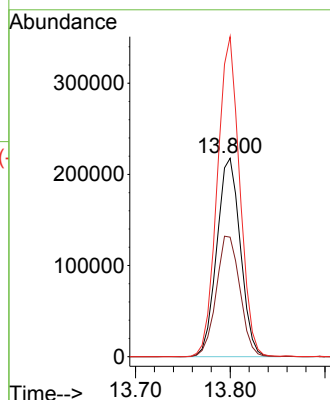
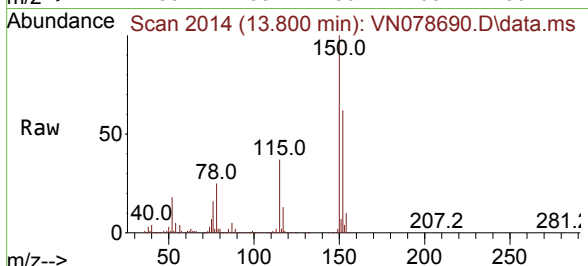




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 2014
 Delta R.T. -0.000 min
 Lab File: VN078690.D
 Acq: 28 Jul 2023 17:17

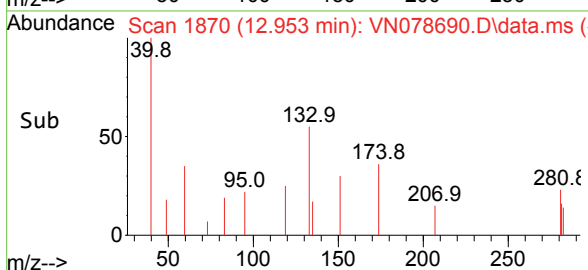
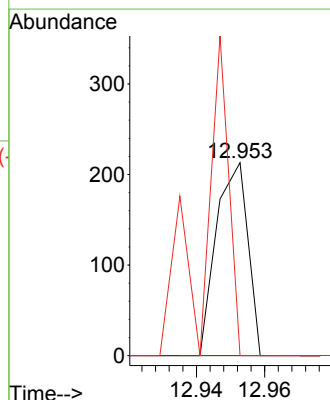
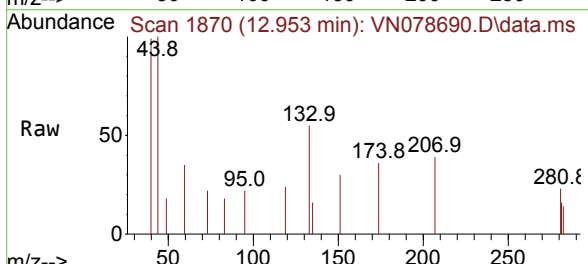
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-18-20230727

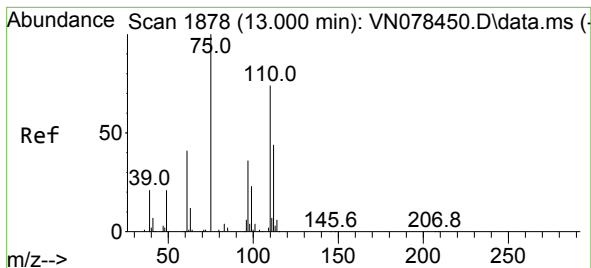
Tgt Ion:	152	Resp:	375972
Ion	Ratio	Lower	Upper
152	100		
115	61.2	32.3	96.8
150	153.4	0.0	355.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.953 min Scan# 1870
 Delta R.T. 0.012 min
 Lab File: VN078690.D
 Acq: 28 Jul 2023 17:17

Tgt Ion:	83	Resp:	136
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	137.5	31.9	95.7#





#76

1,2,3-Trichloropropane

Concen: 26.911 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078690.D

Acq: 28 Jul 2023 17:17

Instrument :

MSVOA_N

ClientSampleId :

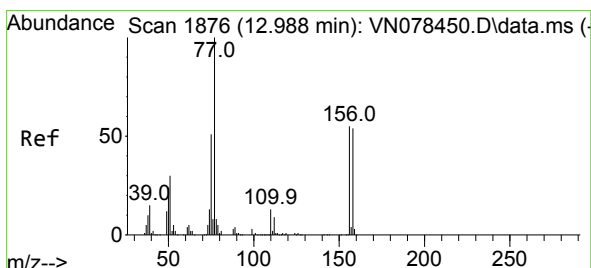
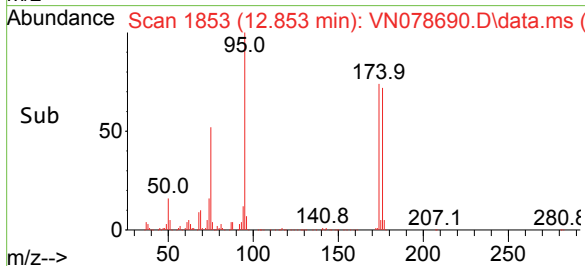
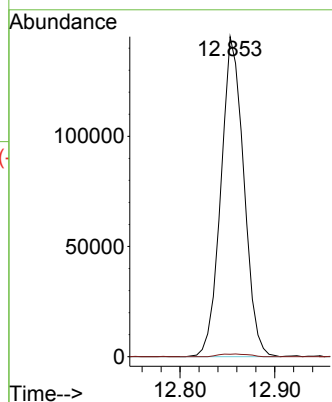
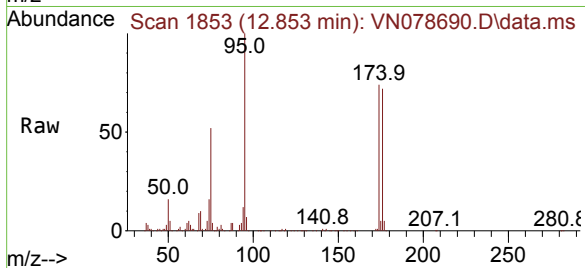
MW-18-20230727

Tgt Ion: 75 Resp: 244558

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.994 min Scan# 1877

Delta R.T. 0.006 min

Lab File: VN078690.D

Acq: 28 Jul 2023 17:17

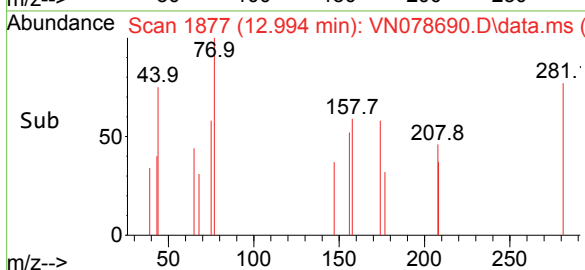
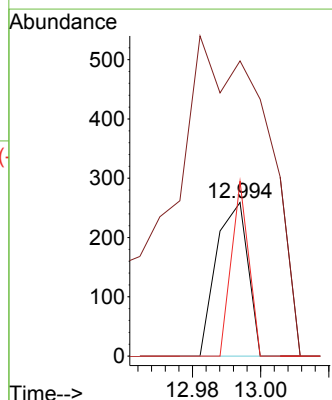
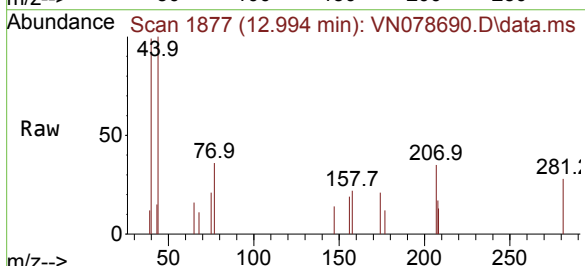
Tgt Ion:156 Resp: 166

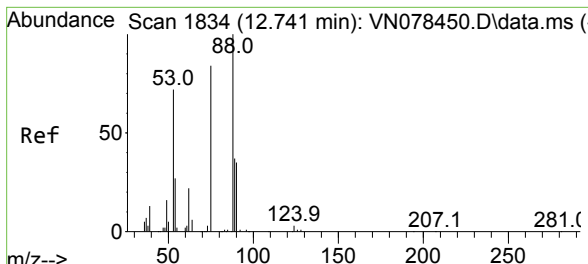
Ion Ratio Lower Upper

156 100

77 646.4 107.7 323.3#

158 62.7 48.4 145.3

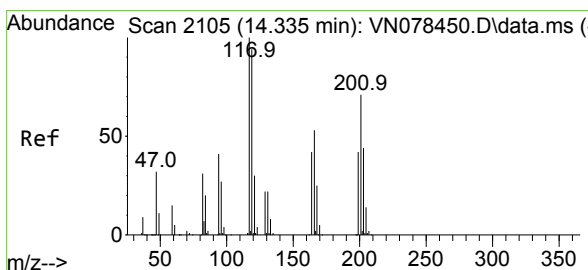
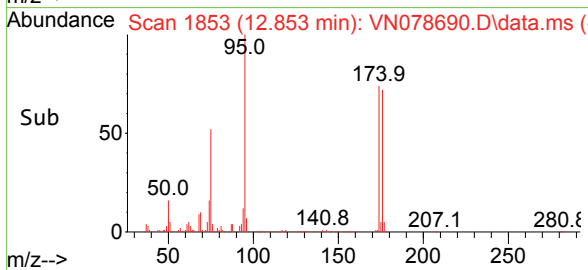
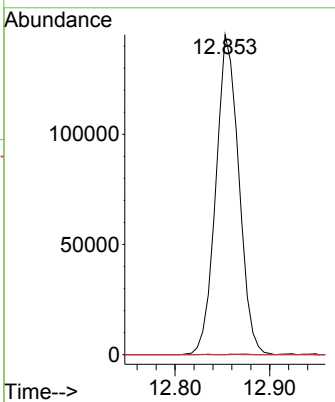
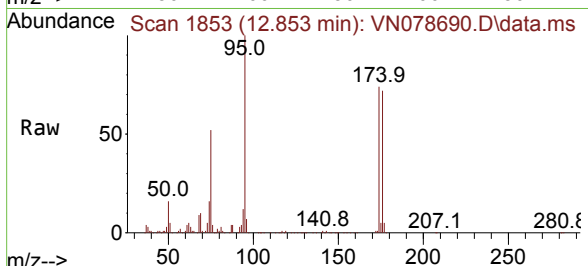




#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.717 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078690.D
 Acq: 28 Jul 2023 17:17

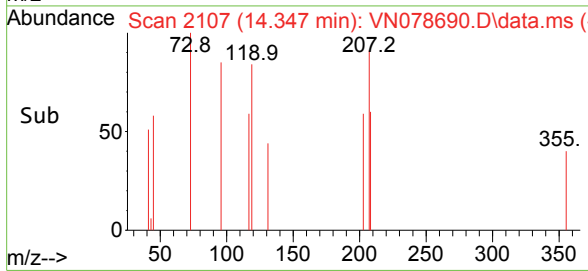
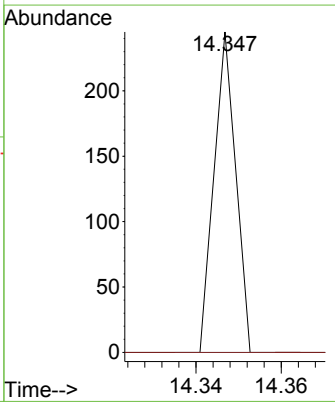
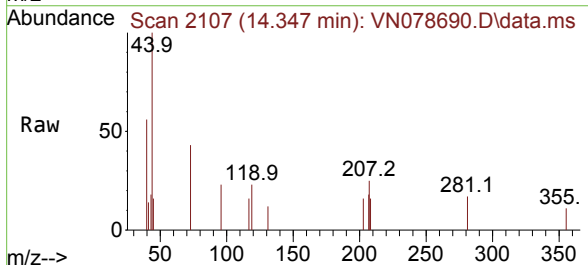
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-18-20230727

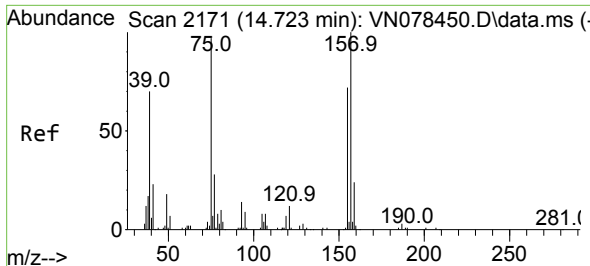
Tgt Ion:	75	Resp:	244558
Ion Ratio	Lower	Upper	
75	100		
53	0.1	67.4	101.2#
89	0.0	38.8	58.2#



#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.347 min Scan# 2107
 Delta R.T. 0.012 min
 Lab File: VN078690.D
 Acq: 28 Jul 2023 17:17

Tgt Ion:	117	Resp:	86
Ion Ratio	Lower	Upper	
117	100		
201	0.0	29.3	88.0#

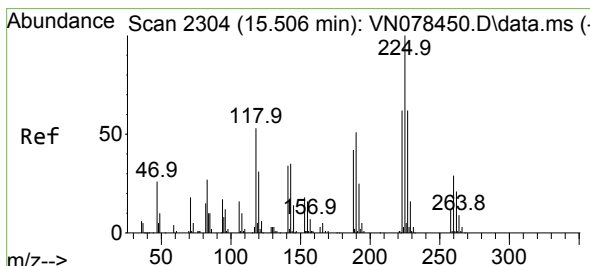
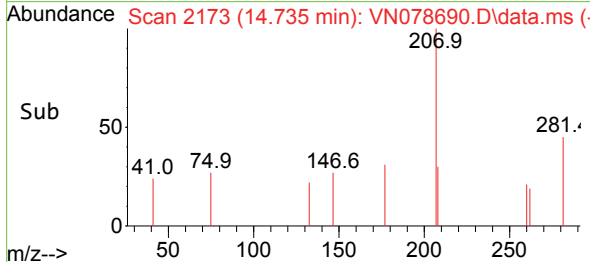
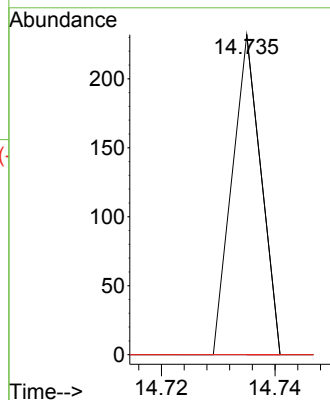
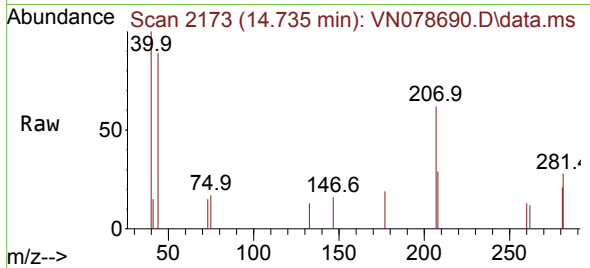




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.735 min Scan# 2171
Delta R.T. 0.012 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Instrument :
MSVOA_N
ClientSampleId :
MW-18-20230727

Tgt Ion: 75 Resp: 82
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.511 min Scan# 2305
Delta R.T. 0.005 min
Lab File: VN078690.D
Acq: 28 Jul 2023 17:17

Tgt Ion: 225 Resp: 156
Ion Ratio Lower Upper
225 100
223 128.2 31.3 93.8#
227 0.0 31.9 95.9#

