

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121223\
 Data File : VN080438.D
 Acq On : 12 Dec 2023 15:29
 Operator : JC\MD
 Sample : VN1212MBL01
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 13 02:32:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

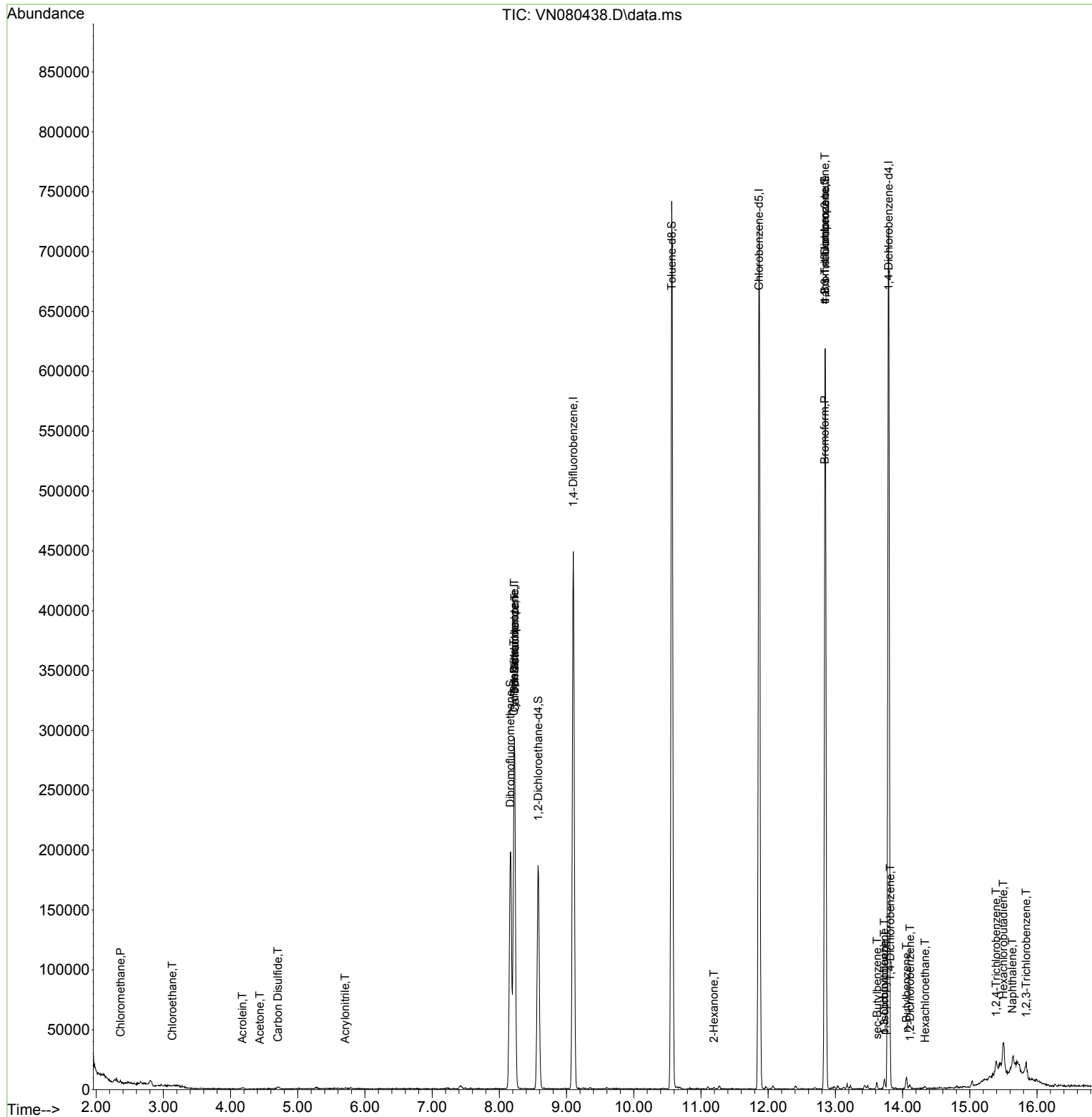
Internal Standards						
1) Pentafluorobenzene	8.224	168	215040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	393602	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	417580	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	199572	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	166136	60.489	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 120.980%	
35) Dibromofluoromethane	8.165	113	143382	57.454	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 114.900%	
50) Toluene-d8	10.565	98	523910	56.290	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 112.580%	
62) 4-Bromofluorobenzene	12.847	95	221817	62.763	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 125.520%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	2426	0.443	ug/l	97
6) Chloroethane	3.136	64	631	0.418	ug/l #	43
13) Acrolein	4.177	56	1065	3.006	ug/l #	62
15) Acrylonitrile	5.706	53	208	0.228	ug/l #	18
16) Acetone	4.436	43	285	0.585	ug/l #	40
17) Carbon Disulfide	4.706	76	4189	0.639	ug/l	95
31) Cyclohexane	8.218	56	4555	1.220	ug/l #	48
36) 1,1-Dichloropropene	8.224	75	16895	4.140	ug/l #	49
38) Carbon Tetrachloride	8.230	117	23640	4.849	ug/l #	15
59) 2-Hexanone	11.194	43	923	0.494	ug/l #	58
71) Bromoform	12.841	173	550	0.207	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	114308	28.711	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	114308	75.382	ug/l #	15
85) sec-Butylbenzene	13.623	105	4196	0.290	ug/l	98
86) p-Isopropyltoluene	13.729	119	2706	0.207	ug/l	83
87) 1,3-Dichlorobenzene	13.729	146	1528	0.220	ug/l	87
88) 1,4-Dichlorobenzene	13.817	146	2193	0.313	ug/l #	58
89) n-Butylbenzene	14.059	91	5877	0.539	ug/l	99
90) Hexachloroethane	14.335	117	555	0.268	ug/l	96
91) 1,2-Dichlorobenzene	14.112	146	1369	0.207	ug/l #	67
93) 1,2,4-Trichlorobenzene	15.394	180	3139	0.857	ug/l	95
94) Hexachlorobutadiene	15.500	225	3708	1.778	ug/l	84
95) Naphthalene	15.635	128	8315	0.747	ug/l	97
96) 1,2,3-Trichlorobenzene	15.841	180	3227	0.913	ug/l	86

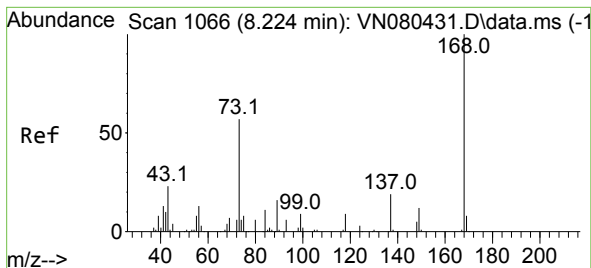
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121223\
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Misc : 5.0g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 13 02:32:06 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 13 01:57:14 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

Instrument :

MSVOA_N

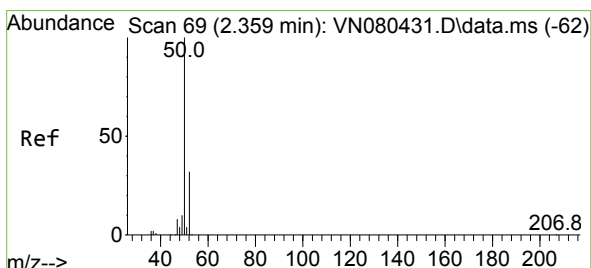
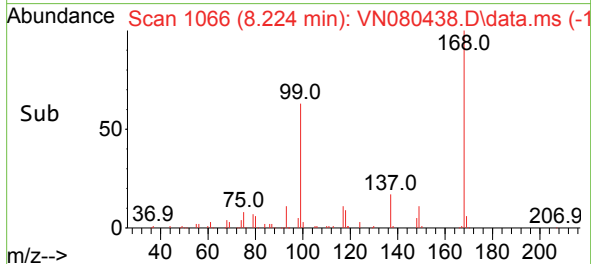
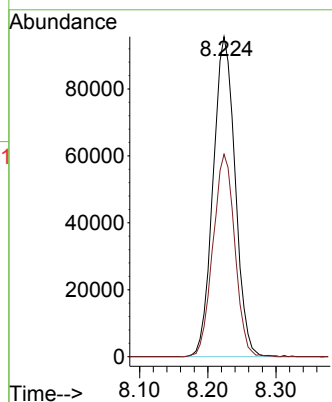
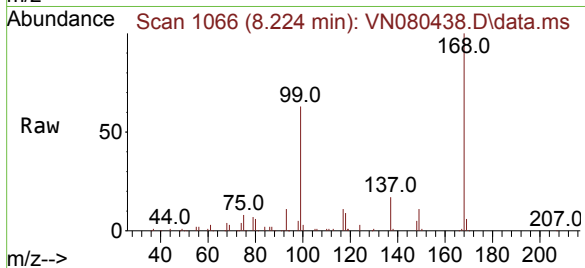
ClientSampleId :

Tgt Ion:168 Resp: 215040

Ion Ratio Lower Upper

168 100

99 63.2 53.0 79.6



#3

Chloromethane

Concen: 0.443 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080438.D

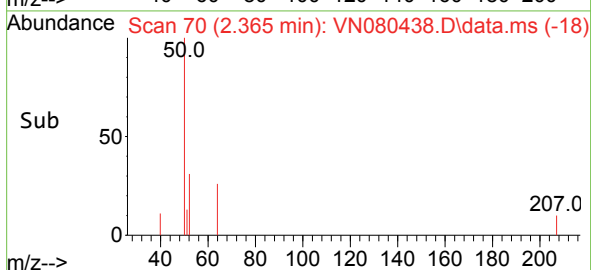
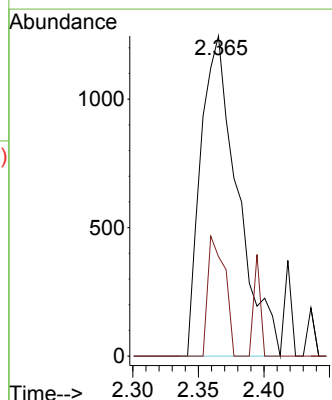
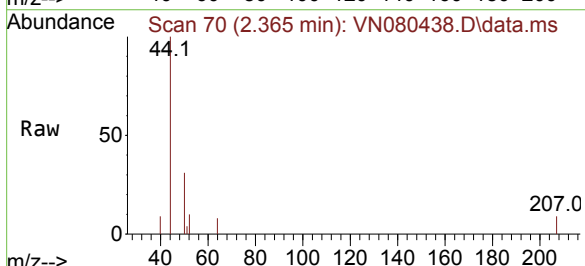
Acq: 12 Dec 2023 15:29

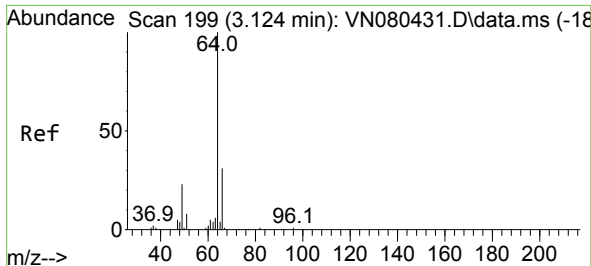
Tgt Ion: 50 Resp: 2426

Ion Ratio Lower Upper

50 100

52 31.1 26.5 39.7

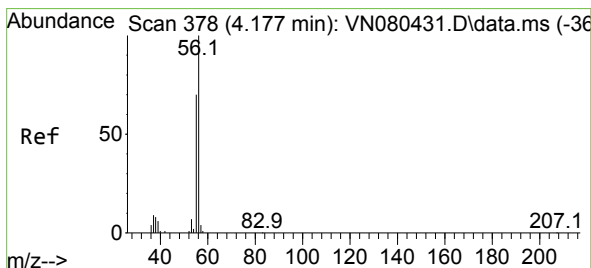
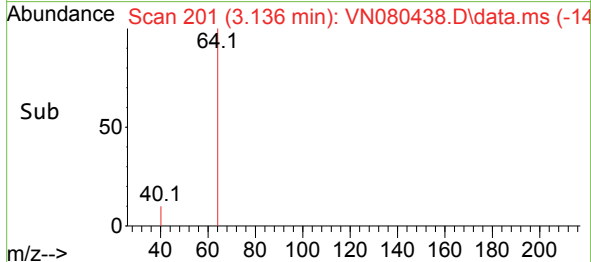
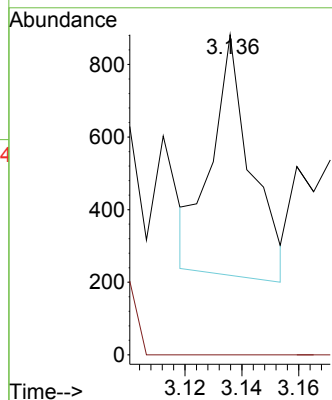
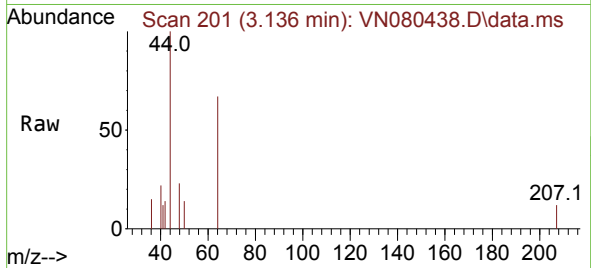




#6
Chloroethane
Concen: 0.418 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

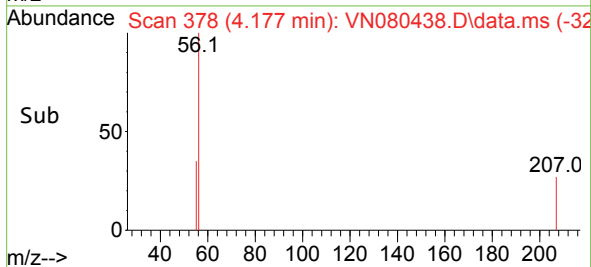
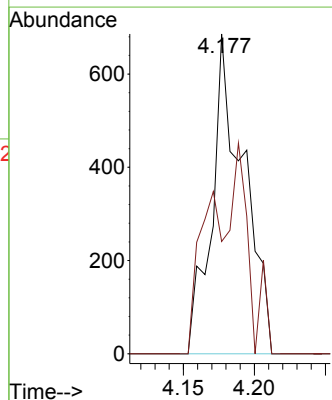
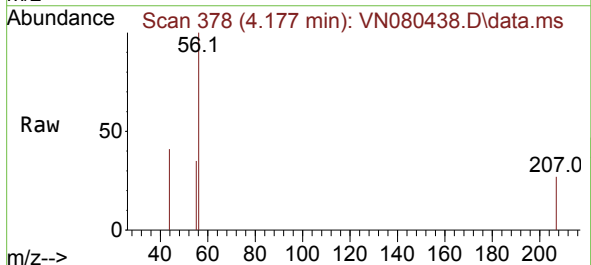
Instrument :
MSVOA_N
ClientSampleId :

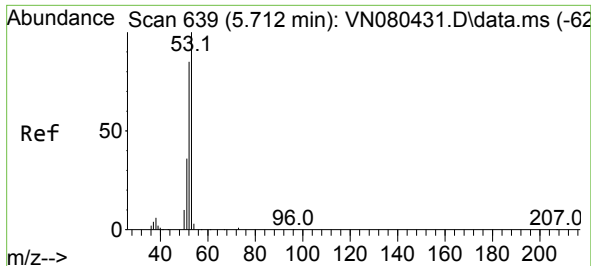
Tgt Ion: 64 Resp: 631
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#13
Acrolein
Concen: 3.006 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.000 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

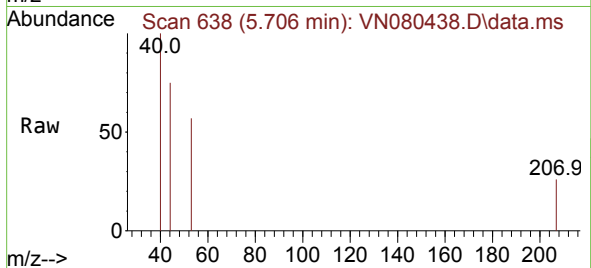
Tgt Ion: 56 Resp: 1065
Ion Ratio Lower Upper
56 100
55 37.0 54.5 81.7#



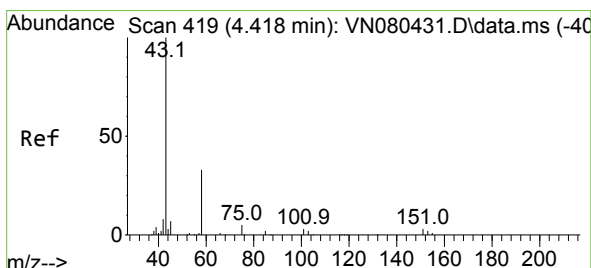
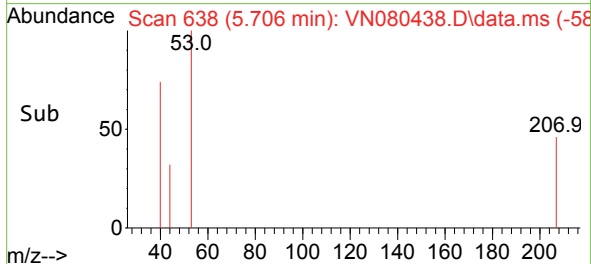
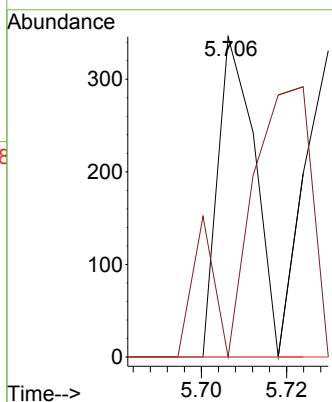


#15
Acrylonitrile
Concen: 0.228 ug/l
RT: 5.706 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

Instrument :
MSVOA_N
ClientSampleId :

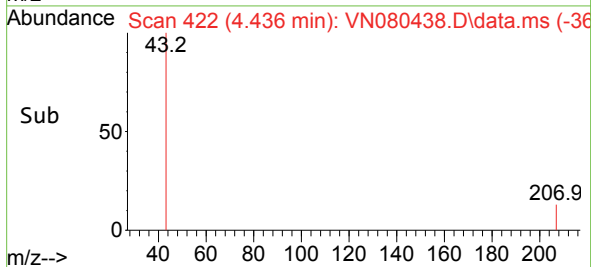
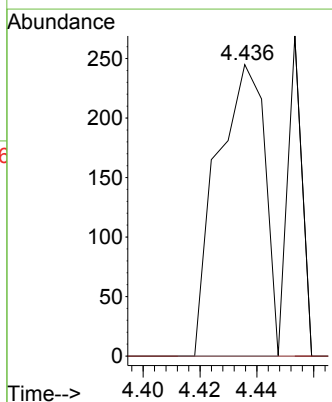
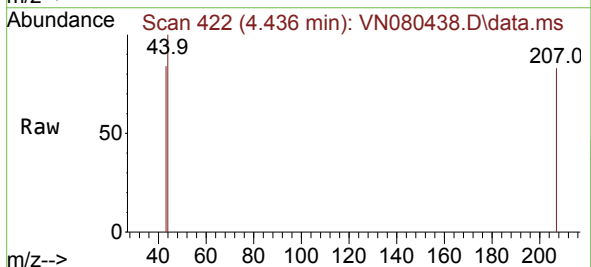


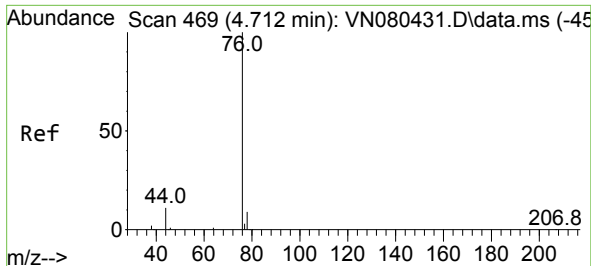
Tgt Ion: 53 Resp: 208
Ion Ratio Lower Upper
53 100
52 0.0 65.3 97.9#
51 0.0 28.9 43.3#



#16
Acetone
Concen: 0.585 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

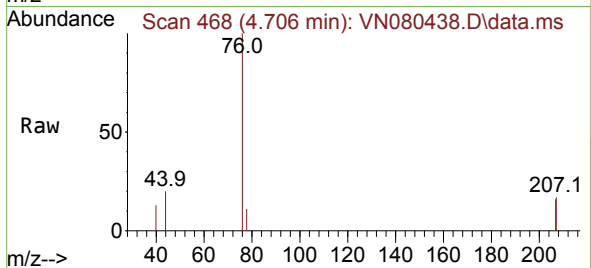
Tgt Ion: 43 Resp: 285
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



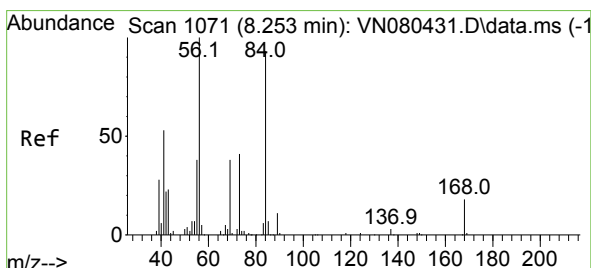
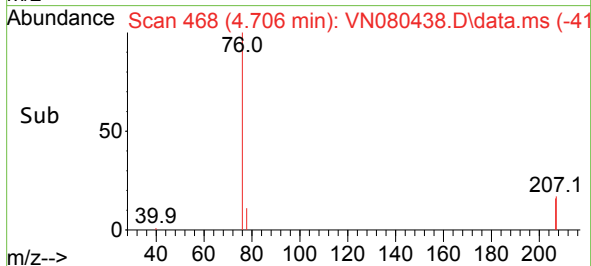
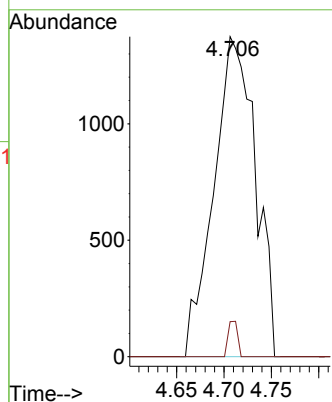


#17
Carbon Disulfide
Concen: 0.639 ug/l
RT: 4.706 min Scan# 4189
Delta R.T. -0.006 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

Instrument :
MSVOA_N
ClientSampleId :

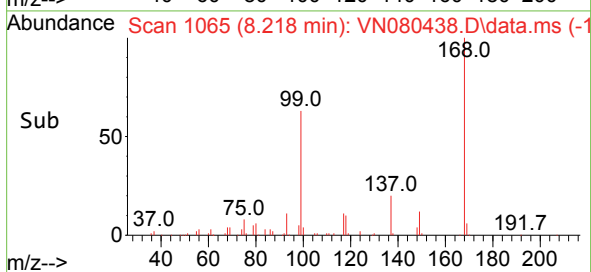
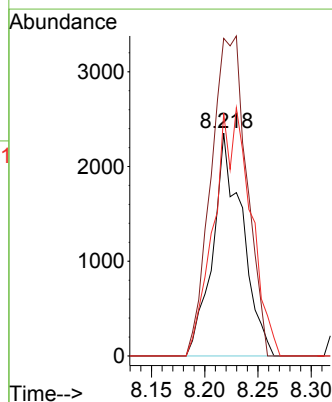
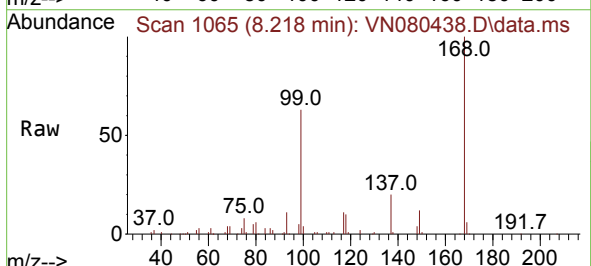


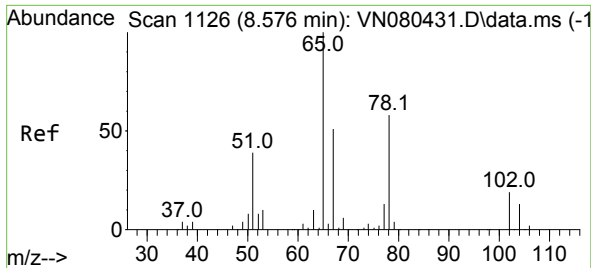
Tgt Ion: 76 Resp: 4189
Ion Ratio Lower Upper
76 100
78 11.0 7.4 11.0



#31
Cyclohexane
Concen: 1.220 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

Tgt Ion: 56 Resp: 4555
Ion Ratio Lower Upper
56 100
69 142.5 26.8 40.2#
84 108.9 81.8 122.6

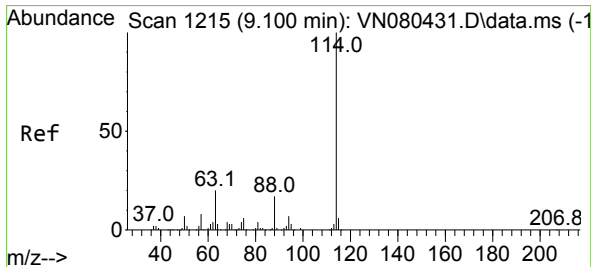
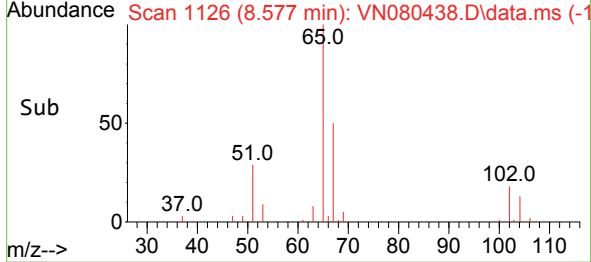
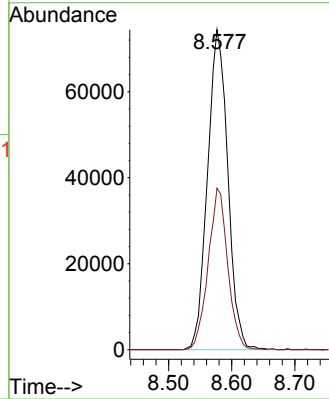
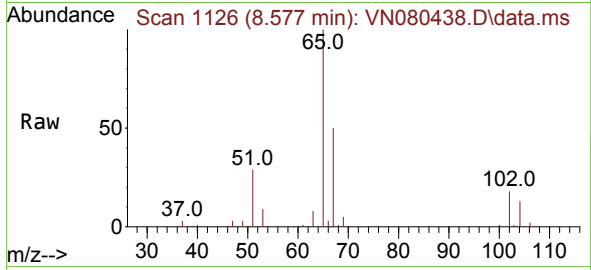




#33
 1,2-Dichloroethane-d4
 Concen: 60.489 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN080438.D
 Acq: 12 Dec 2023 15:29

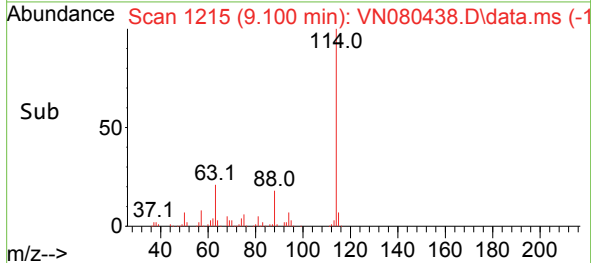
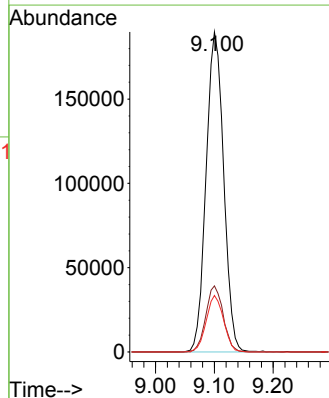
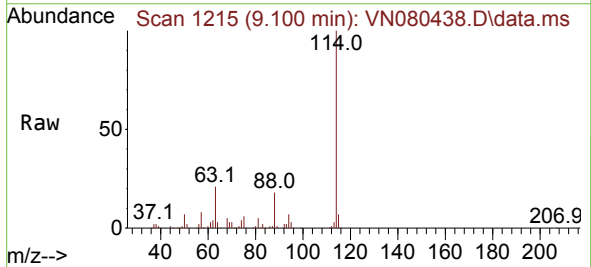
Instrument :
 MSVOA_N
 ClientSampleId :

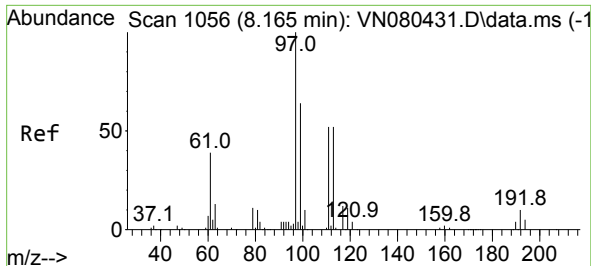
Tgt Ion: 65 Resp: 166136
 Ion Ratio Lower Upper
 65 100
 67 48.6 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN080438.D
 Acq: 12 Dec 2023 15:29

Tgt Ion: 114 Resp: 393602
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 36.4
 88 17.6 0.0 30.6

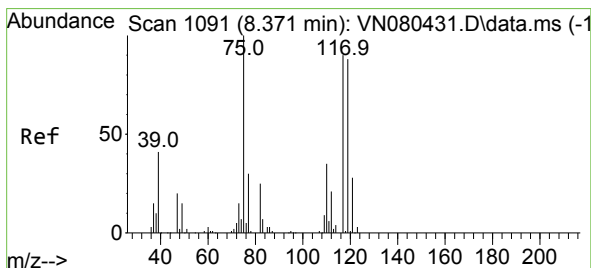
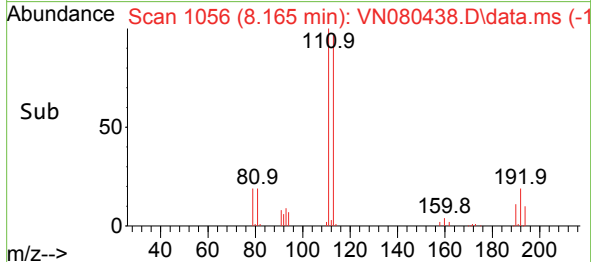
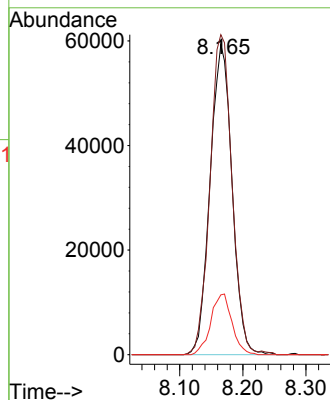
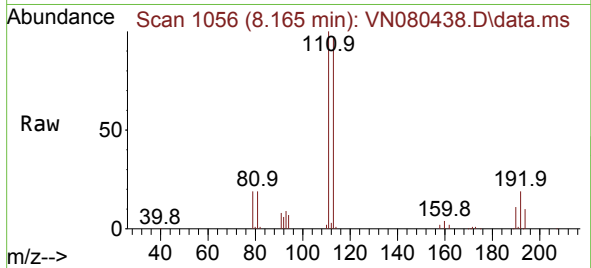




#35
Dibromofluoromethane
Concen: 57.454 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

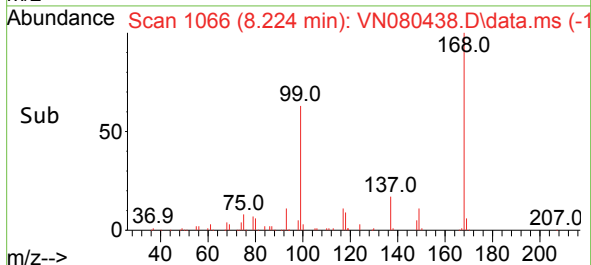
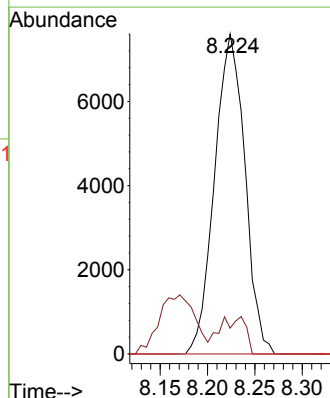
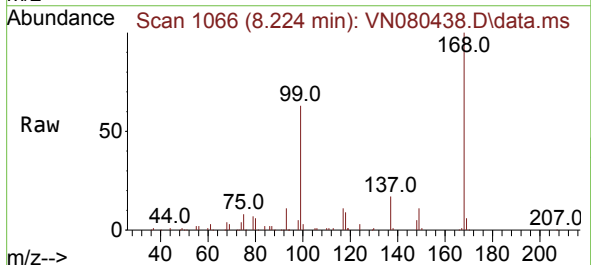
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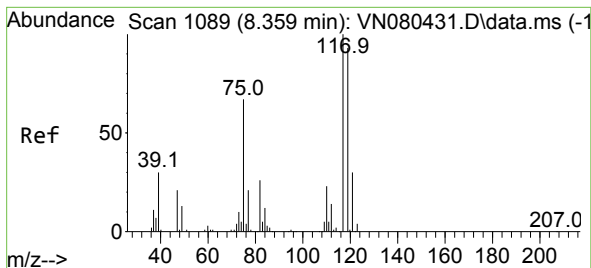
Tgt Ion:113 Resp: 143382
Ion Ratio Lower Upper
113 100
111 103.5 82.6 123.8
192 18.8 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.140 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

Tgt Ion: 75 Resp: 16895
Ion Ratio Lower Upper
75 100
110 10.0 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.849 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

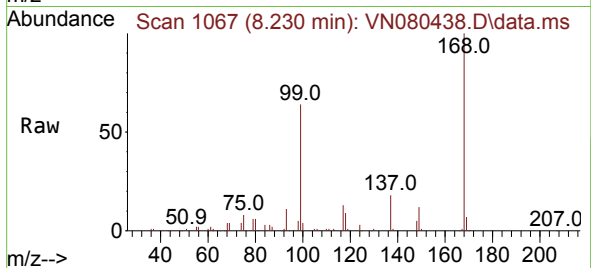
Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

Instrument :

MSVOA_N

ClientSampleId :



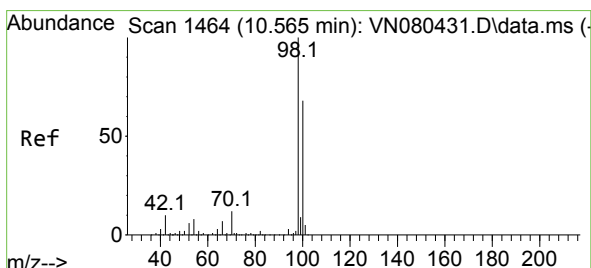
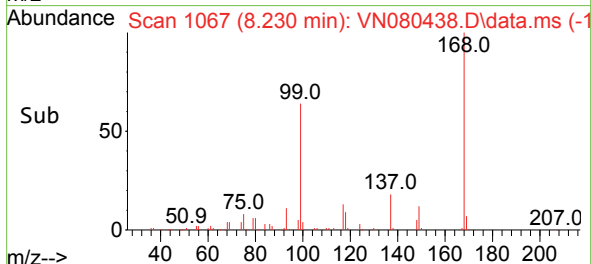
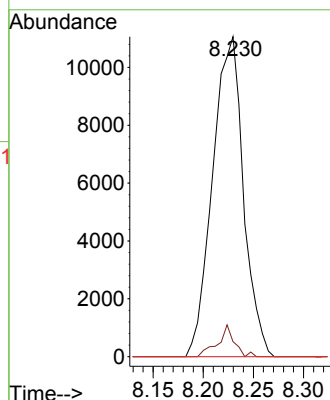
Tgt Ion:117 Resp: 23640

Ion Ratio Lower Upper

117 100

119 4.7 77.3 115.9#

121 0.0 23.3 34.9#



#50

Toluene-d8

Concen: 56.290 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN080438.D

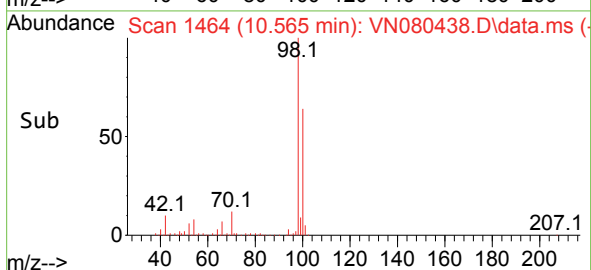
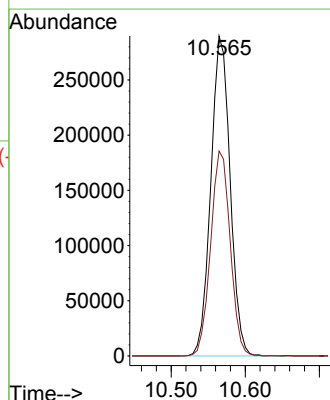
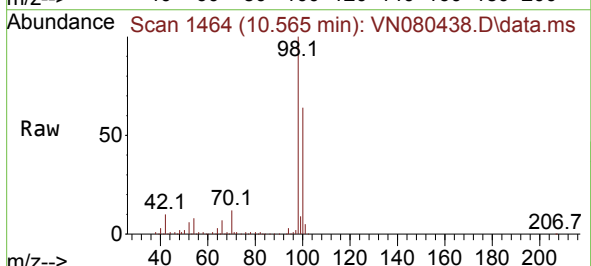
Acq: 12 Dec 2023 15:29

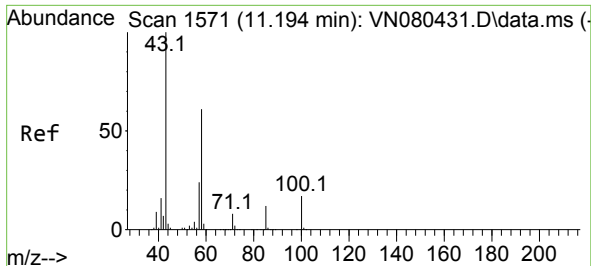
Tgt Ion: 98 Resp: 523910

Ion Ratio Lower Upper

98 100

100 64.8 52.0 78.0

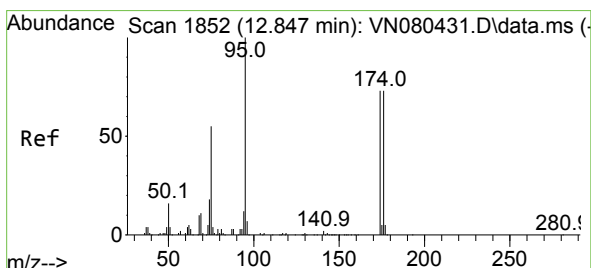
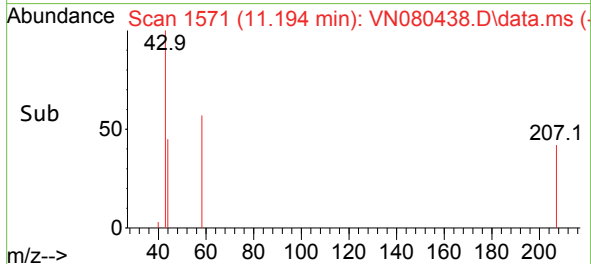
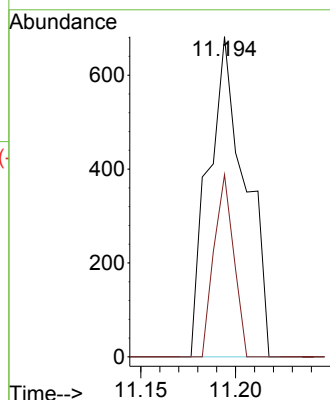
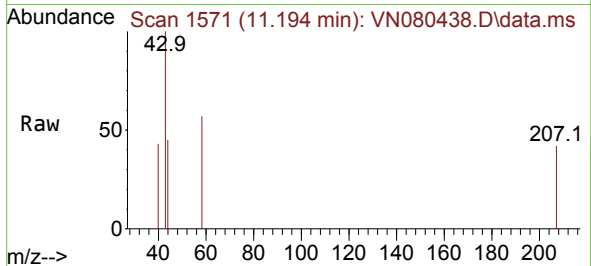




#59
2-Hexanone
Concen: 0.494 ug/l
RT: 11.194 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

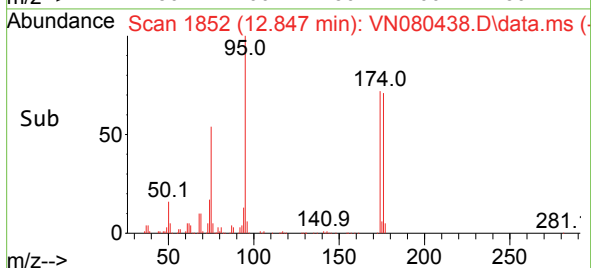
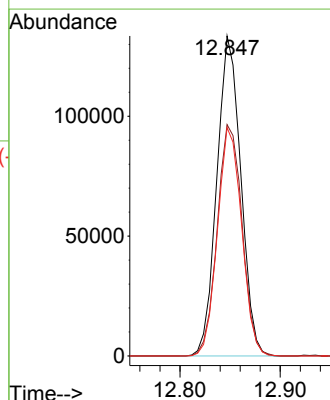
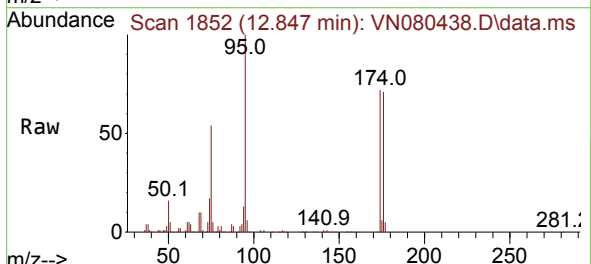
Instrument :
MSVOA_N
ClientSampleId :

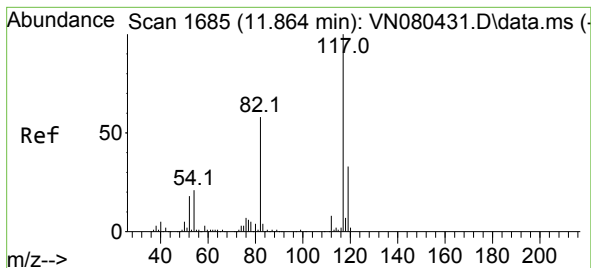
Tgt Ion: 43 Resp: 923
Ion Ratio Lower Upper
43 100
58 30.6 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 62.763 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

Tgt Ion: 95 Resp: 221817
Ion Ratio Lower Upper
95 100
174 75.0 0.0 143.8
176 71.9 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

Instrument :

MSVOA_N

ClientSampleId :

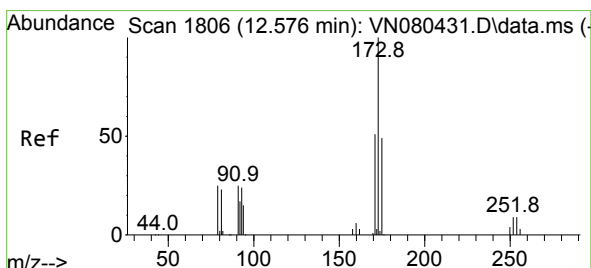
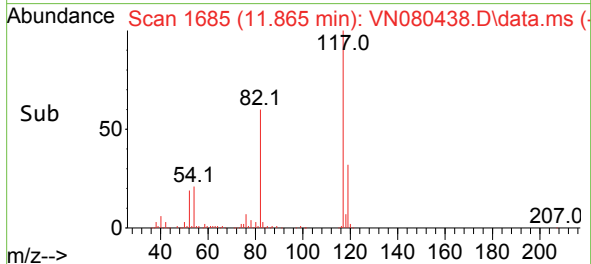
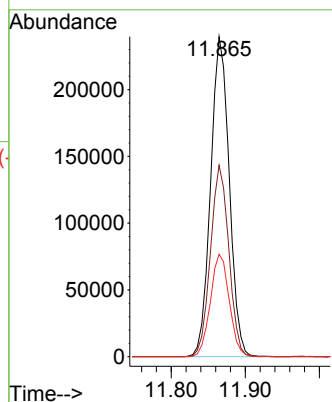
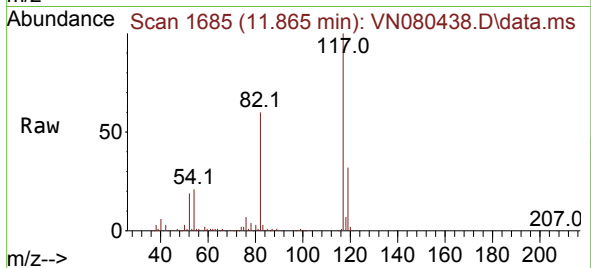
Tgt Ion:117 Resp: 417580

Ion Ratio Lower Upper

117 100

82 59.8 44.0 66.0

119 32.0 25.6 38.4



#71

Bromoform

Concen: 0.207 ug/l

RT: 12.841 min Scan# 1851

Delta R.T. 0.265 min

Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

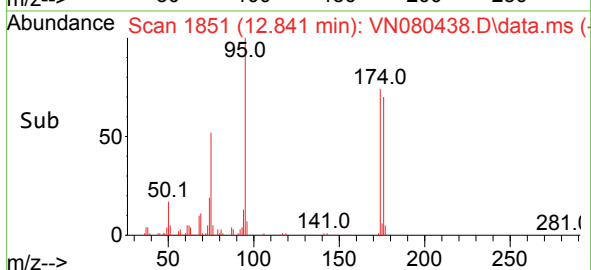
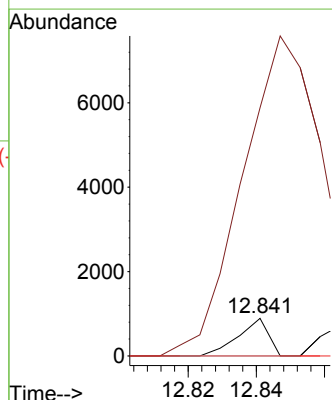
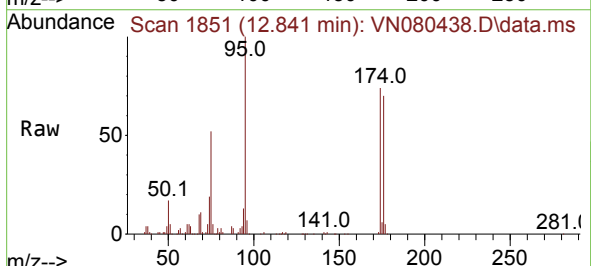
Tgt Ion:173 Resp: 550

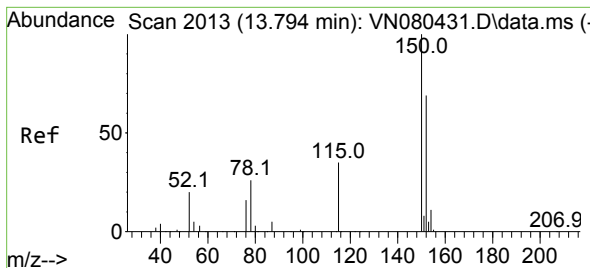
Ion Ratio Lower Upper

173 100

175 1737.8 24.3 73.0#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

Instrument :

MSVOA_N

ClientSampleId :

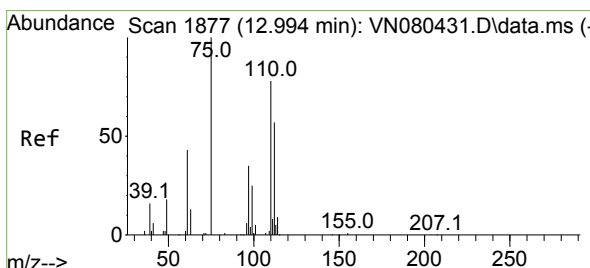
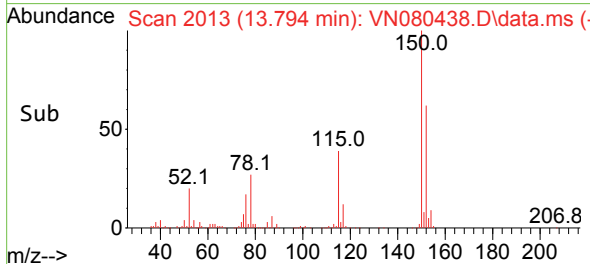
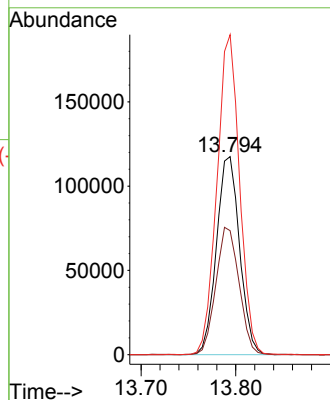
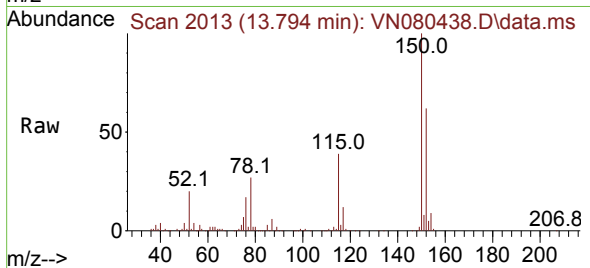
Tgt Ion:152 Resp: 199572

Ion Ratio Lower Upper

152 100

115 64.6 32.3 96.8

150 157.8 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 28.711 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080438.D

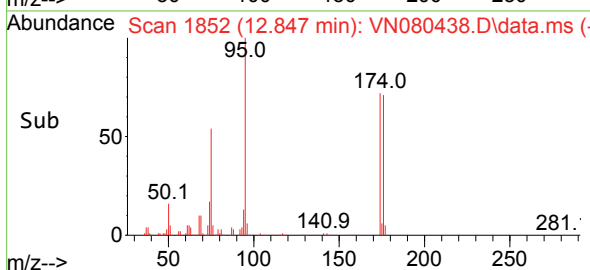
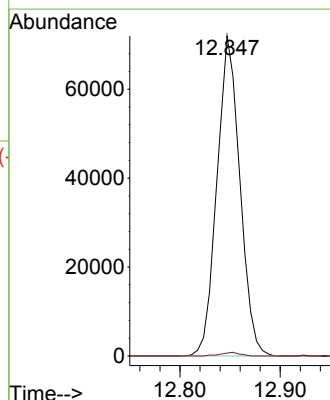
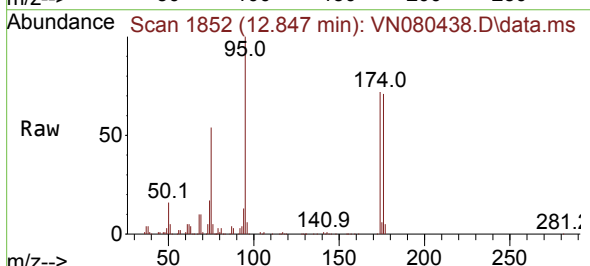
Acq: 12 Dec 2023 15:29

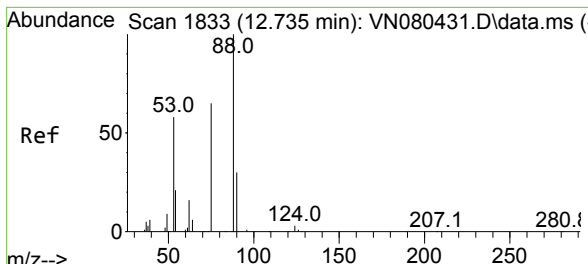
Tgt Ion: 75 Resp: 114308

Ion Ratio Lower Upper

75 100

77 0.9 84.5 253.5#

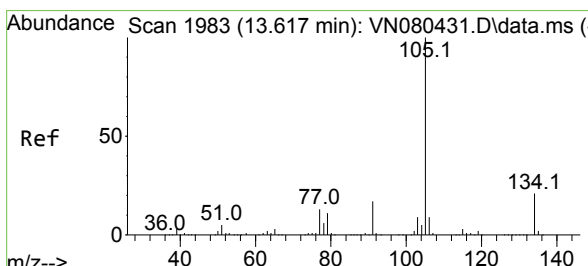
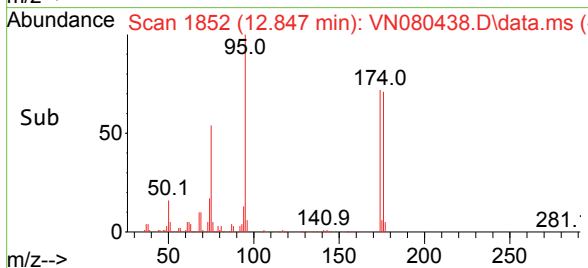
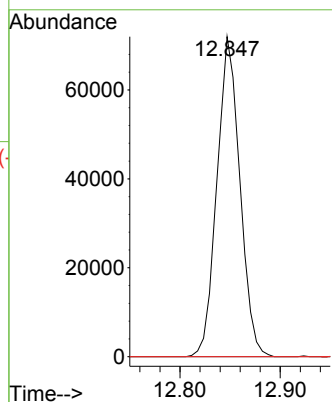
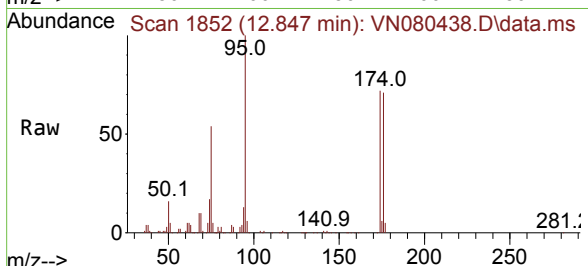




#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.382 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN080438.D
 Acq: 12 Dec 2023 15:29

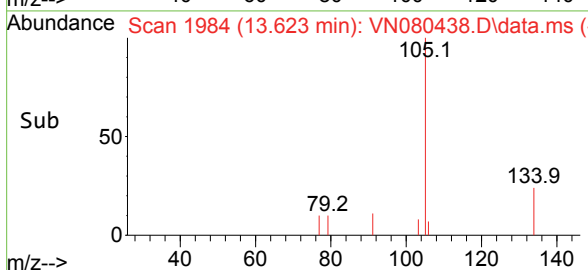
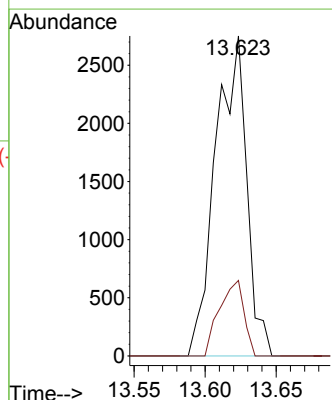
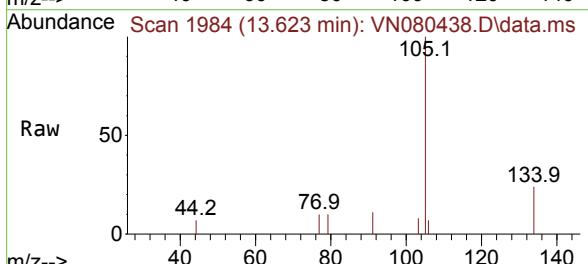
Instrument :
 MSVOA_N
 ClientSampleId :

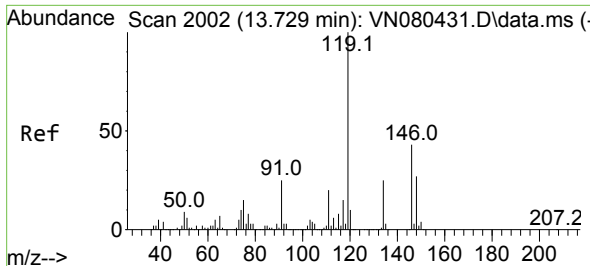
Tgt Ion: 75 Resp: 114308
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#



#85
 sec-Butylbenzene
 Concen: 0.290 ug/l
 RT: 13.623 min Scan# 1984
 Delta R.T. 0.006 min
 Lab File: VN080438.D
 Acq: 12 Dec 2023 15:29

Tgt Ion:105 Resp: 4196
 Ion Ratio Lower Upper
 105 100
 134 18.6 9.8 29.3

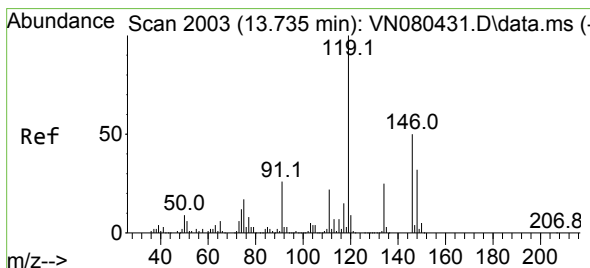
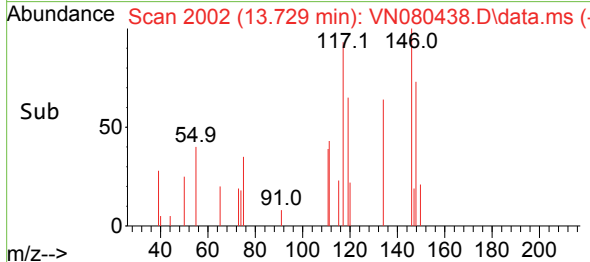
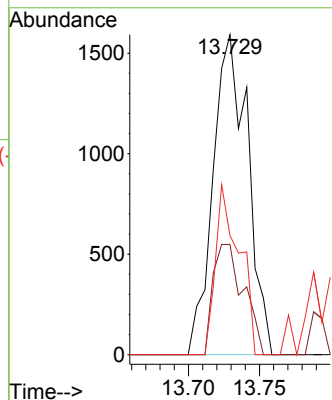
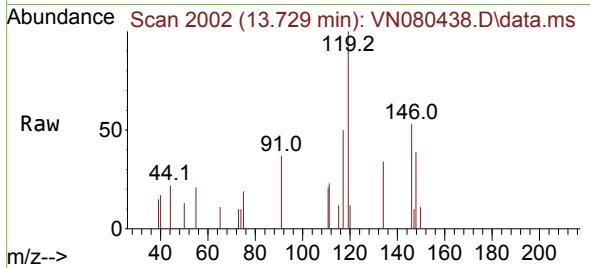




#86
p-Isopropyltoluene
Concen: 0.207 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

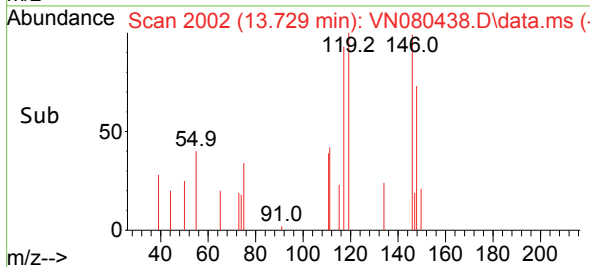
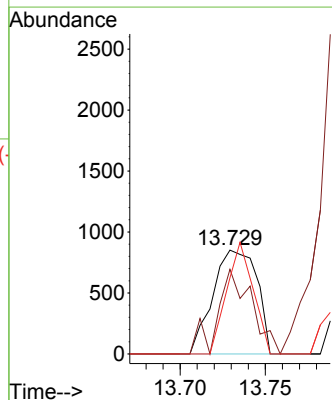
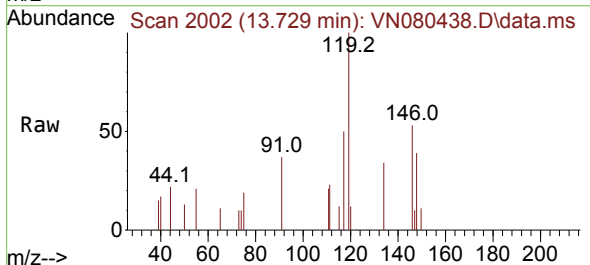
Instrument :
MSVOA_N
ClientSampleId :

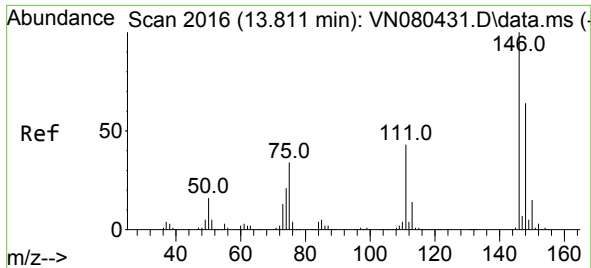
Tgt Ion:119 Resp: 2706
Ion Ratio Lower Upper
119 100
134 30.3 12.6 37.8
91 36.4 12.4 37.2



#87
1,3-Dichlorobenzene
Concen: 0.220 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.006 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

Tgt Ion:146 Resp: 1528
Ion Ratio Lower Upper
146 100
111 63.7 22.1 66.3
148 64.6 32.0 96.0

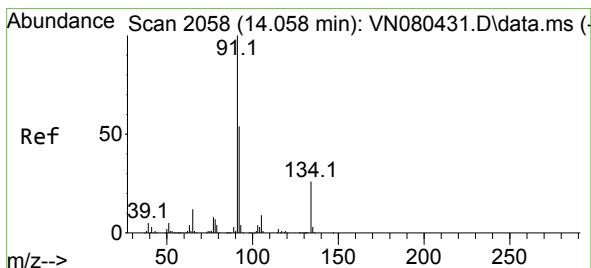
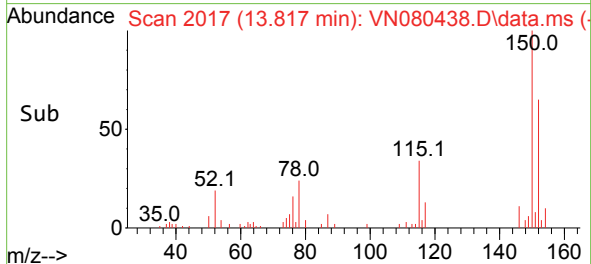
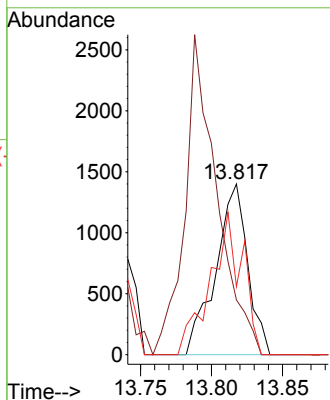
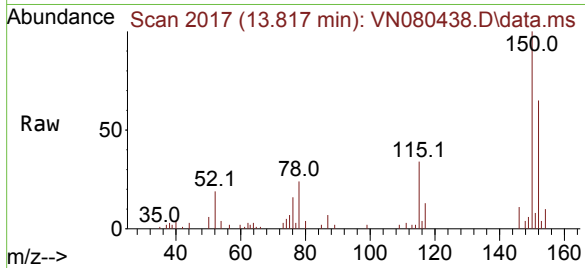




#88
 1,4-Dichlorobenzene
 Concen: 0.313 ug/l
 RT: 13.817 min Scan# 2016
 Delta R.T. 0.006 min
 Lab File: VN080438.D
 Acq: 12 Dec 2023 15:29

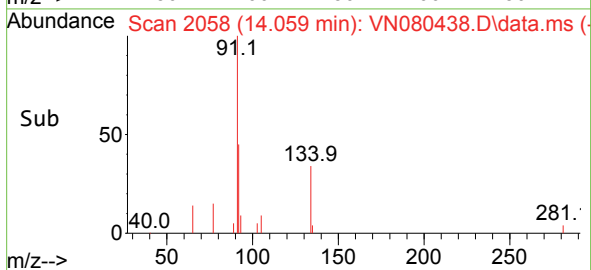
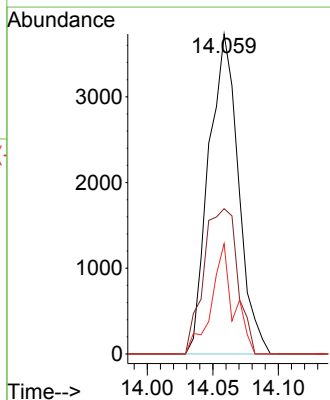
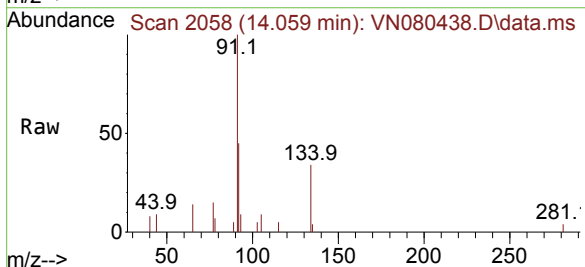
Instrument :
 MSVOA_N
 ClientSampleId :

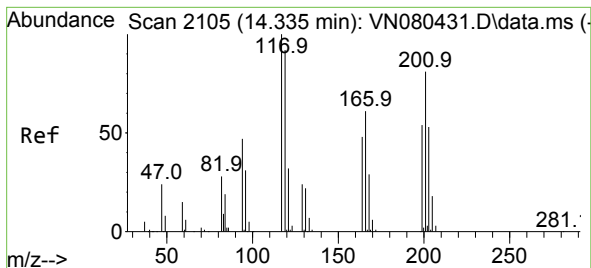
Tgt Ion:146 Resp: 2193
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.6 61.8#
 148 83.4 31.6 94.8



#89
 n-Butylbenzene
 Concen: 0.539 ug/l
 RT: 14.059 min Scan# 2058
 Delta R.T. 0.000 min
 Lab File: VN080438.D
 Acq: 12 Dec 2023 15:29

Tgt Ion: 91 Resp: 5877
 Ion Ratio Lower Upper
 91 100
 92 51.8 26.4 79.0
 134 25.8 12.6 37.6





#90

Hexachloroethane

Concen: 0.268 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

Instrument :

MSVOA_N

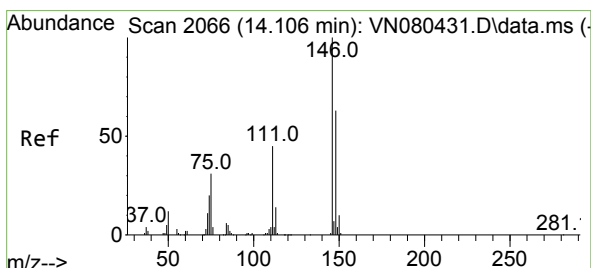
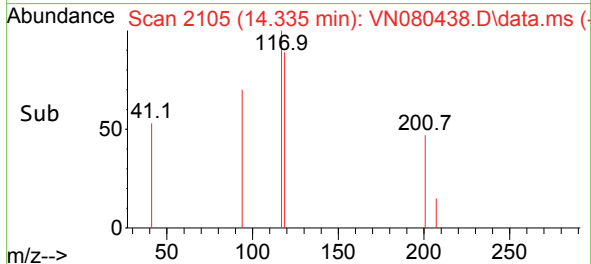
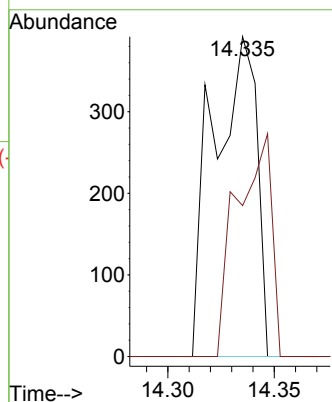
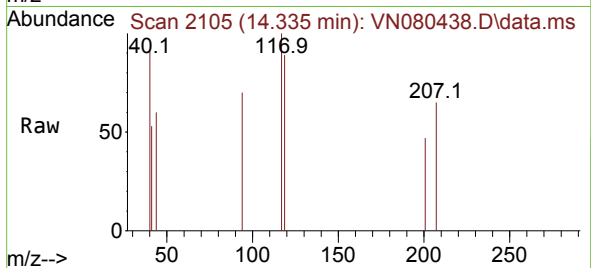
ClientSampleId :

Tgt Ion:117 Resp: 555

Ion Ratio Lower Upper

117 100

201 55.9 29.3 88.0



#91

1,2-Dichlorobenzene

Concen: 0.207 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.006 min

Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

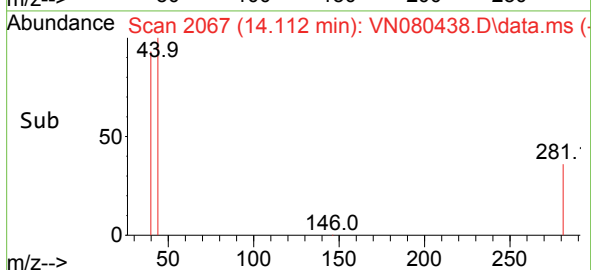
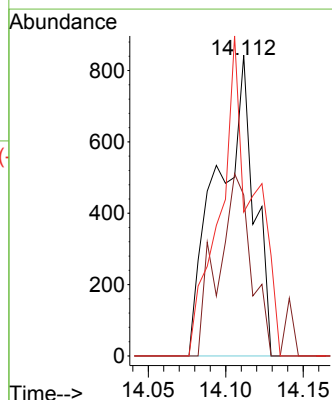
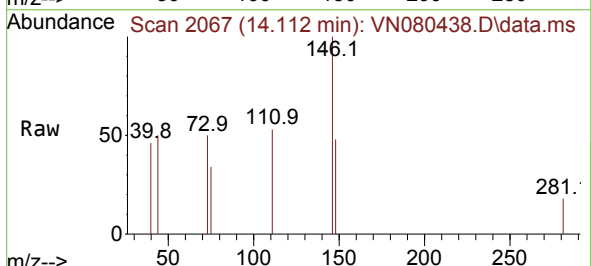
Tgt Ion:146 Resp: 1369

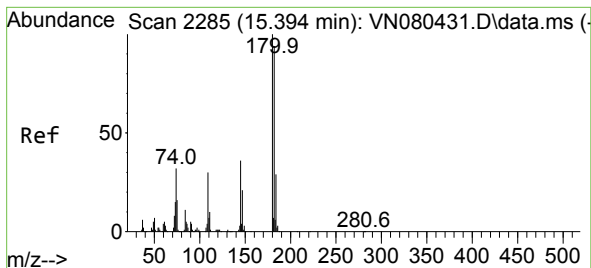
Ion Ratio Lower Upper

146 100

111 55.1 22.0 66.0

148 97.1 31.8 95.3#





#93

1,2,4-Trichlorobenzene

Concen: 0.857 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

Instrument :

MSVOA_N

ClientSampleId :

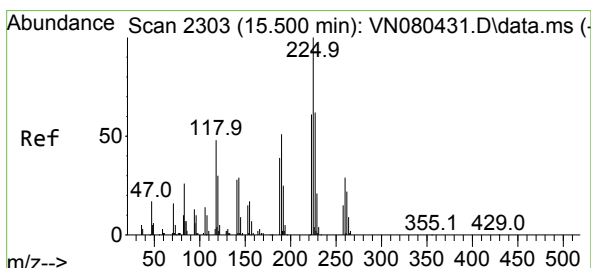
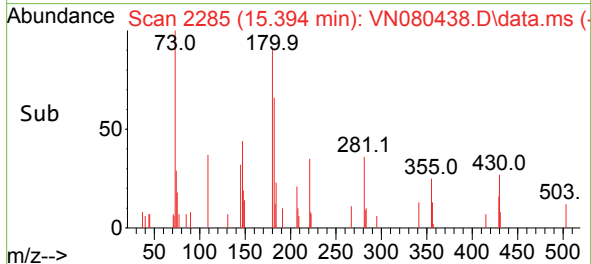
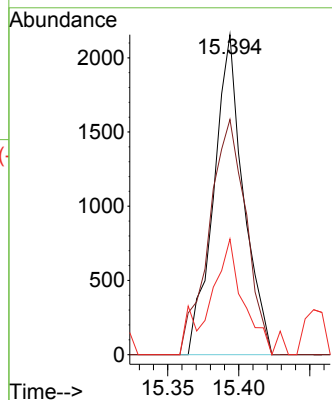
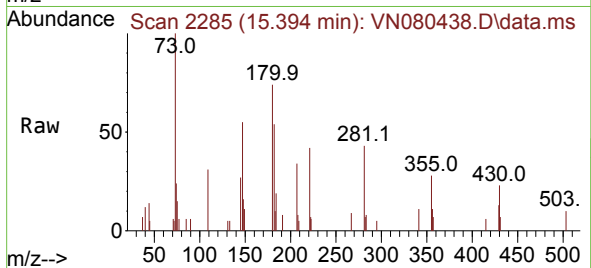
Tgt Ion:180 Resp: 3139

Ion Ratio Lower Upper

180 100

182 91.2 46.1 138.2

145 42.3 16.6 49.8



#94

Hexachlorobutadiene

Concen: 1.778 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN080438.D

Acq: 12 Dec 2023 15:29

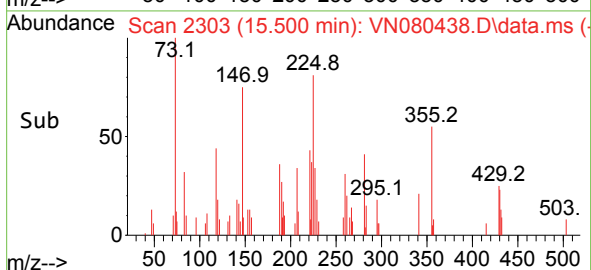
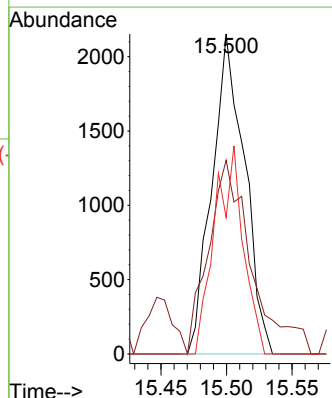
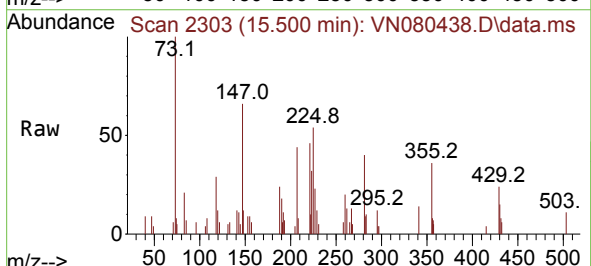
Tgt Ion:225 Resp: 3708

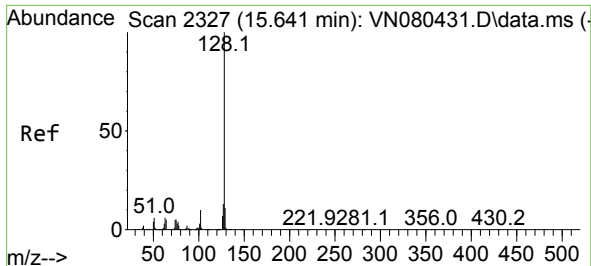
Ion Ratio Lower Upper

225 100

223 80.1 31.3 93.8

227 57.1 31.9 95.9

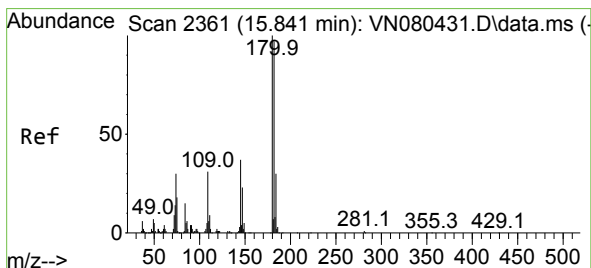
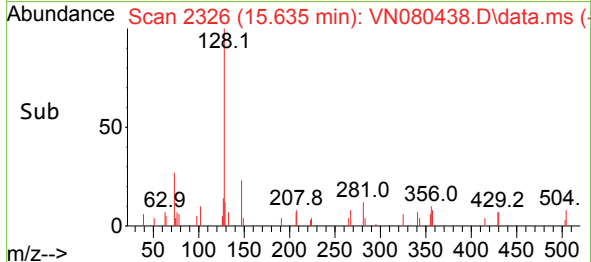
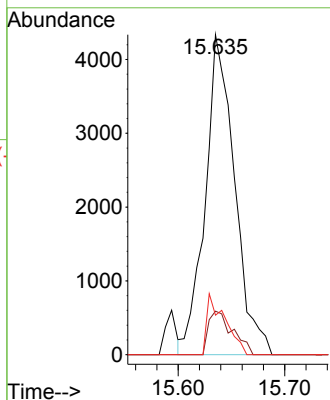
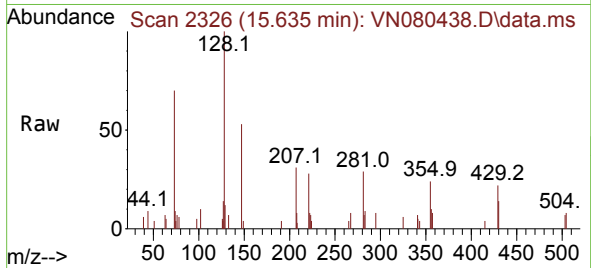




#95
Naphthalene
Concen: 0.747 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.0	15.0
129	11.8	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.913 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN080438.D
Acq: 12 Dec 2023 15:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	81.6	46.2	138.6
145	48.2	17.5	52.6

