

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122023\
 Data File : VN080538.D
 Acq On : 20 Dec 2023 11:31
 Operator : JC\MD
 Sample : VN1220MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 02:38:41 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)

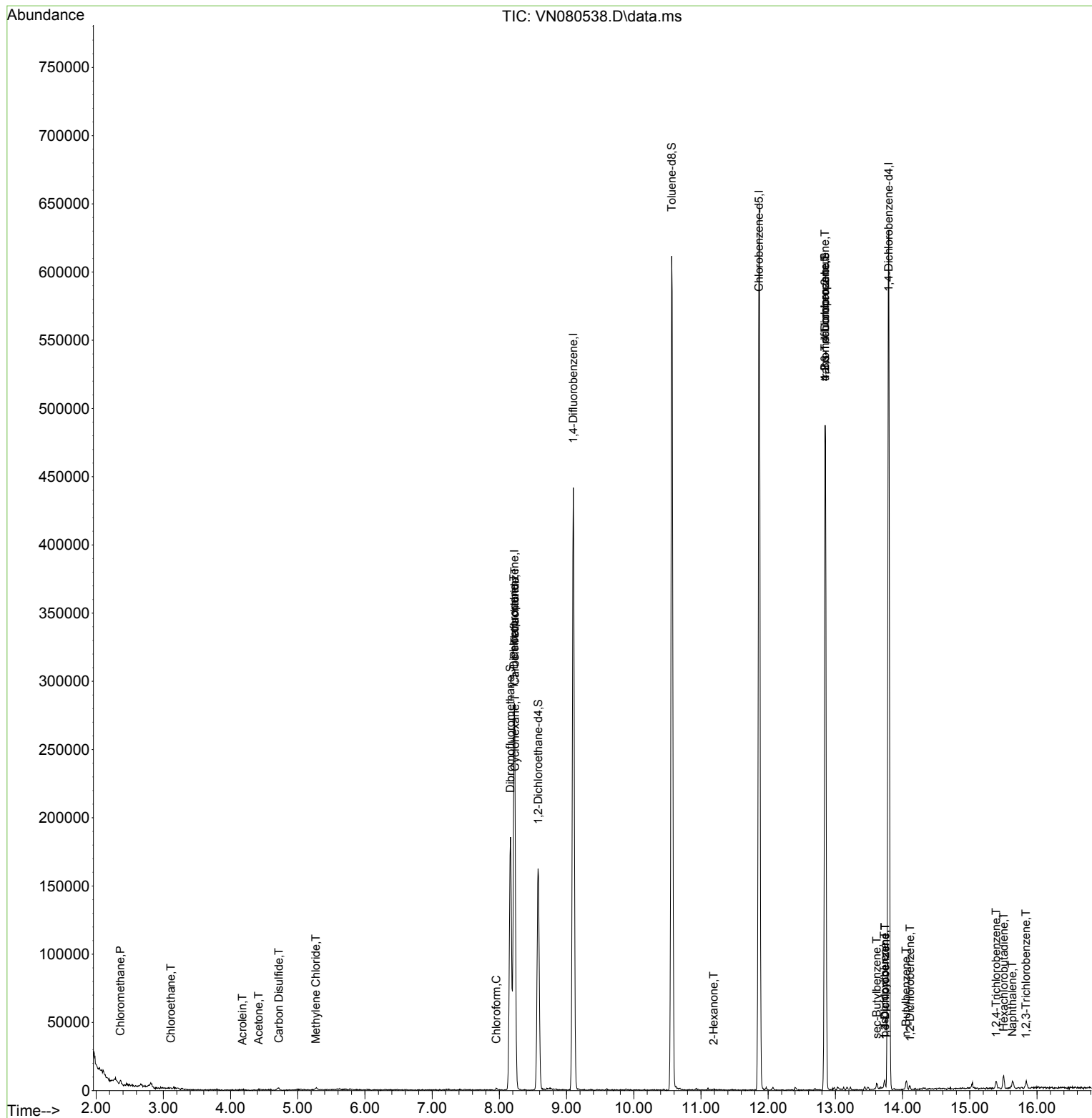
Internal Standards						
1) Pentafluorobenzene	8.224	168	198879	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	378111	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	378982	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	171725	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	144497	56.885	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.780%			
35) Dibromofluoromethane	8.165	113	130088	54.263	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.520%			
50) Toluene-d8	10.565	98	439951	49.206	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.420%			
62) 4-Bromofluorobenzene	12.847	95	178230	52.496	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.000%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	3770	1.025	ug/l #	79
6) Chloroethane	3.112	64	519	0.372	ug/l #	43
13) Acrolein	4.177	56	420	1.282	ug/l	84
16) Acetone	4.418	43	365	0.810	ug/l #	40
17) Carbon Disulfide	4.718	76	2941	0.485	ug/l #	79
20) Methylene Chloride	5.271	84	828	0.344	ug/l #	77
30) Chloroform	7.953	83	1090	0.247	ug/l #	59
31) Cyclohexane	8.235	56	3651	1.057	ug/l #	10
36) 1,1-Dichloropropene	8.218	75	16058	4.097	ug/l #	50
38) Carbon Tetrachloride	8.229	117	21075	4.500	ug/l #	14
59) 2-Hexanone	11.188	43	414	0.231	ug/l	69
76) 1,2,3-Trichloropropane	12.847	75	93273	27.226	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	93273	71.485	ug/l #	15
85) sec-Butylbenzene	13.617	105	3546	0.285	ug/l	100
86) p-Isopropyltoluene	13.729	119	2513	0.224	ug/l	94
87) 1,3-Dichlorobenzene	13.741	146	1363	0.228	ug/l	95
88) 1,4-Dichlorobenzene	13.741	146	1363	0.226	ug/l	97
89) n-Butylbenzene	14.053	91	3932	0.419	ug/l	94
91) 1,2-Dichlorobenzene	14.111	146	1361	0.240	ug/l	90
93) 1,2,4-Trichlorobenzene	15.394	180	2498	0.792	ug/l	90
94) Hexachlorobutadiene	15.506	225	2004	1.117	ug/l	97
95) Naphthalene	15.635	128	5722	0.598	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.835	180	1092	0.359	ug/l #	23

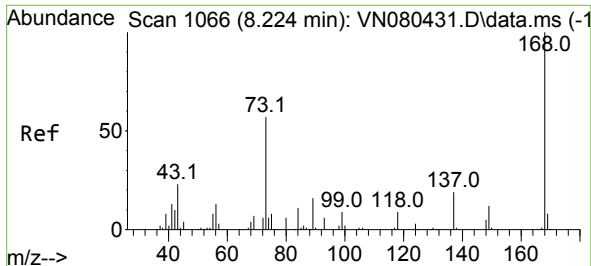
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN080538.D
Acq On : 20 Dec 2023 11:31
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Sample : VN1220MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

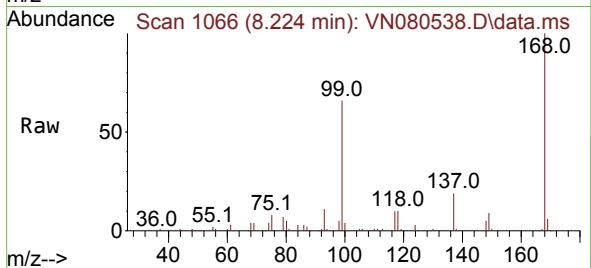
Quant Time: Dec 21 02:38:41 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
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QLast Update : Wed Dec 13 01:57:14 2023
Response via : Initial Calibration



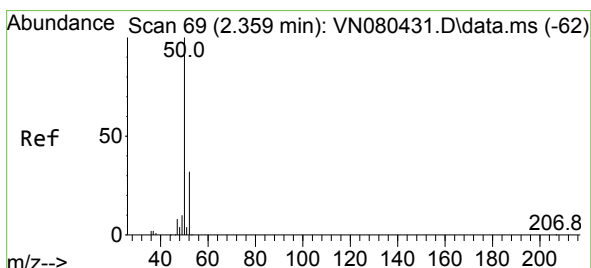
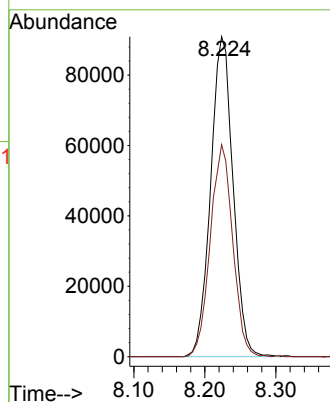
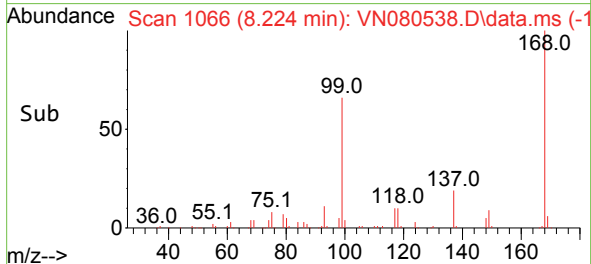


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

Instrument :
MSVOA_N
ClientSampleId :

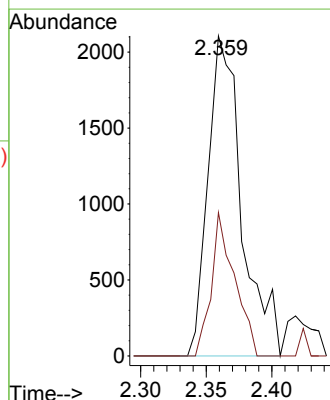
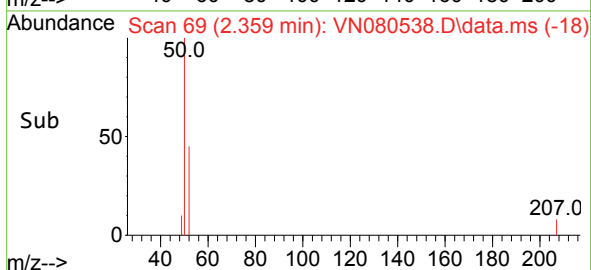
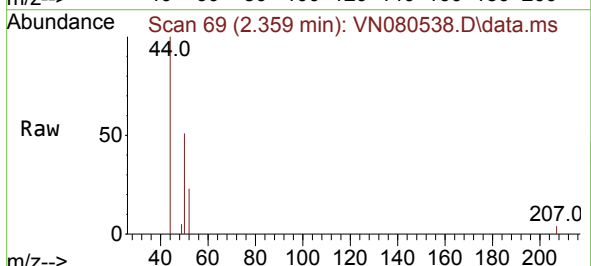


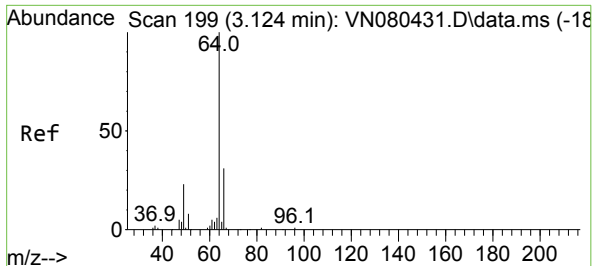
Tgt Ion:168 Resp: 198879
Ion Ratio Lower Upper
168 100
99 66.2 53.0 79.6



#3
Chloromethane
Concen: 1.025 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

Tgt Ion: 50 Resp: 3770
Ion Ratio Lower Upper
50 100
52 44.8 26.5 39.7#

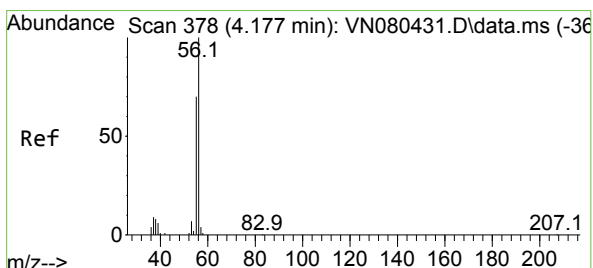
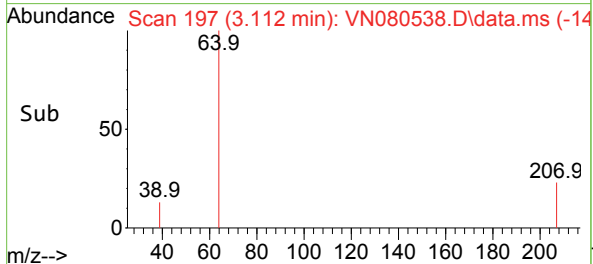
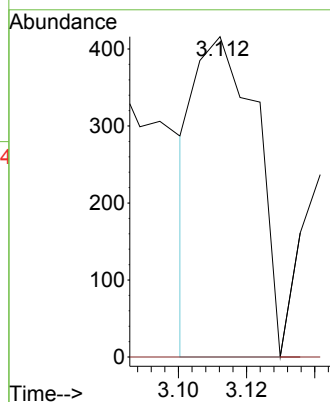
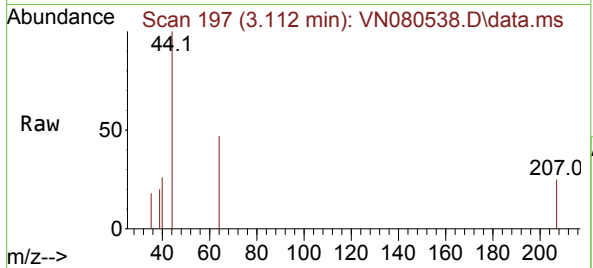




#6
Chloroethane
Concen: 0.372 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

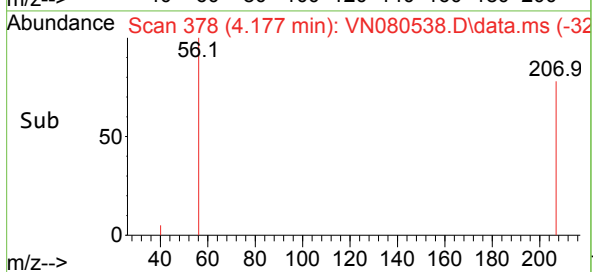
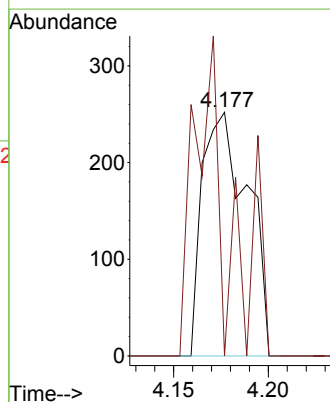
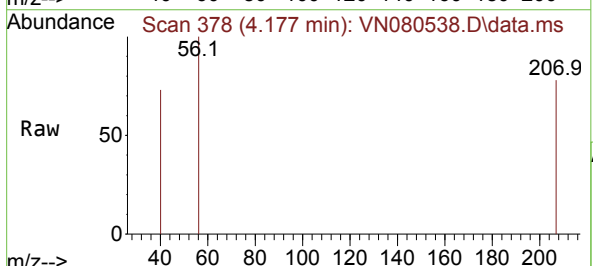
Instrument :
MSVOA_N
ClientSampleId :

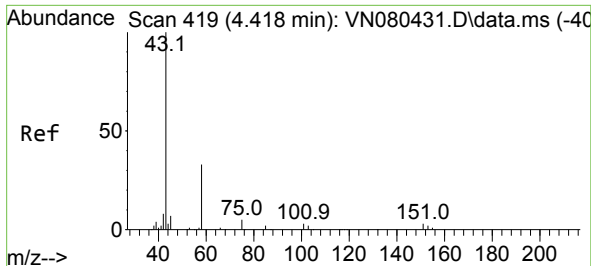
Tgt Ion: 64 Resp: 519
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#13
Acrolein
Concen: 1.282 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.000 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

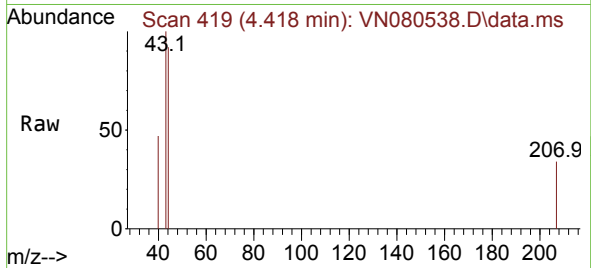
Tgt Ion: 56 Resp: 420
Ion Ratio Lower Upper
56 100
55 80.7 54.5 81.7



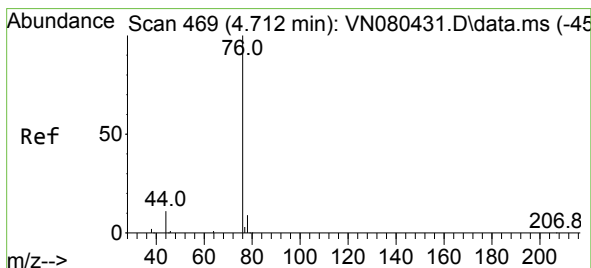
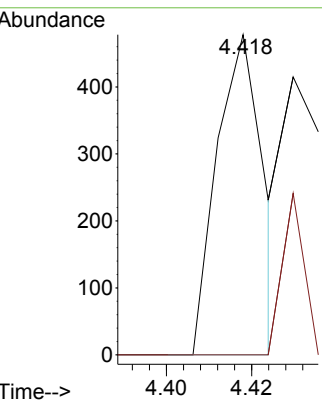
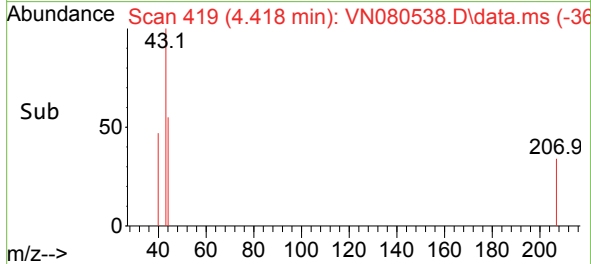


#16
Acetone
Concen: 0.810 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

Instrument :
MSVOA_N
ClientSampleId :

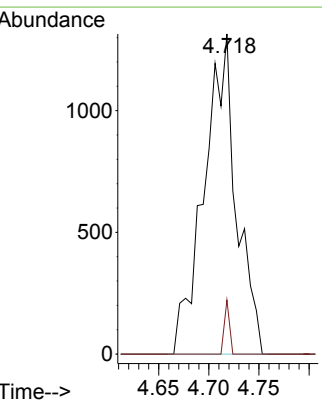
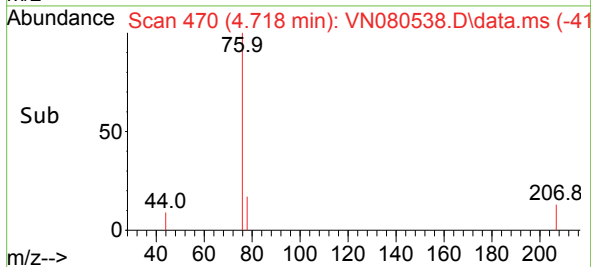
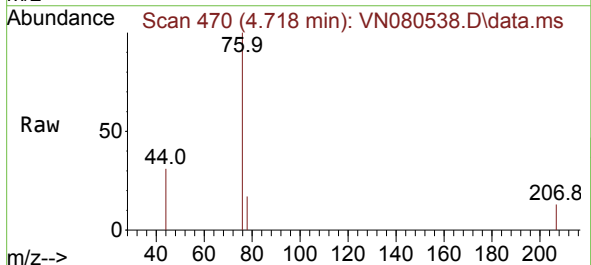


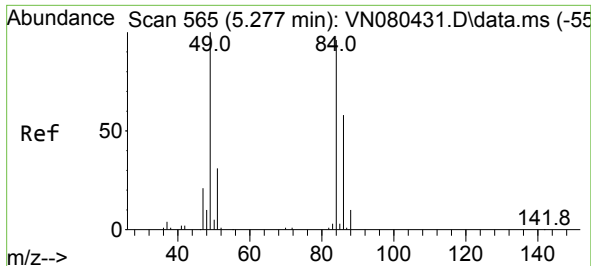
Tgt Ion: 43 Resp: 365
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.485 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

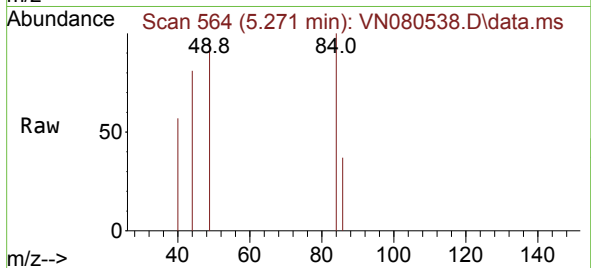
Tgt Ion: 76 Resp: 2941
Ion Ratio Lower Upper
76 100
78 16.9 7.4 11.0#



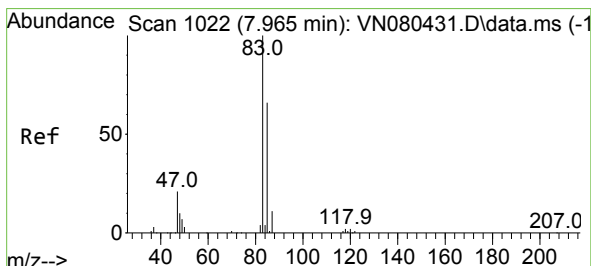
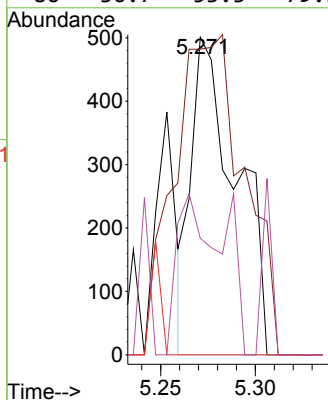
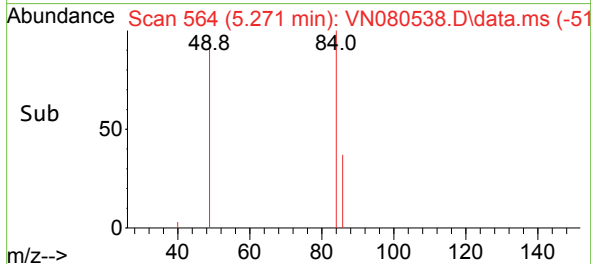


#20
Methylene Chloride
Concen: 0.344 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

Instrument :
MSVOA_N
ClientSampleId :

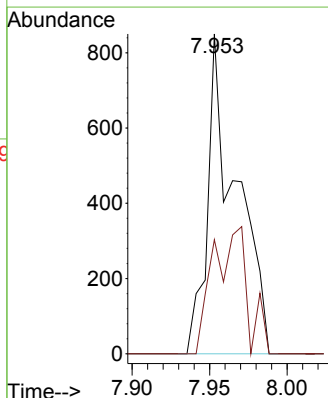
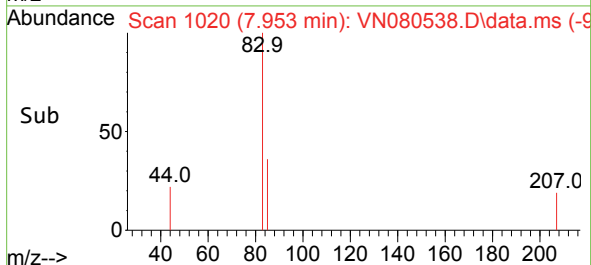
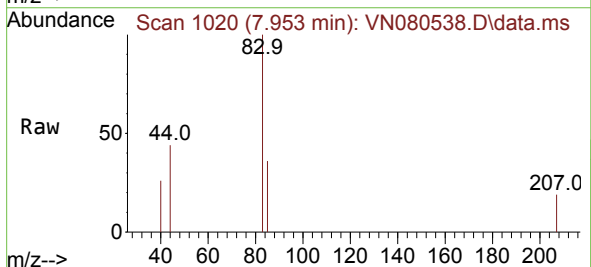


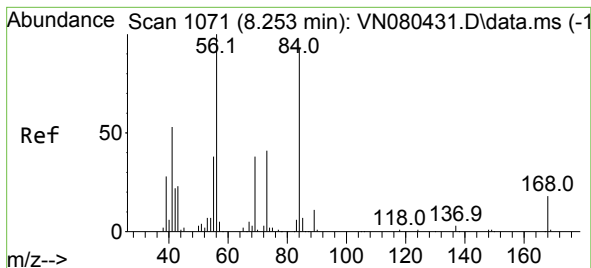
Tgt Ion: 84 Resp: 828
Ion Ratio Lower Upper
84 100
49 96.2 79.7 119.5
51 0.0 25.2 37.8#
86 36.7 53.3 79.9#



#30
Chloroform
Concen: 0.247 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.012 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

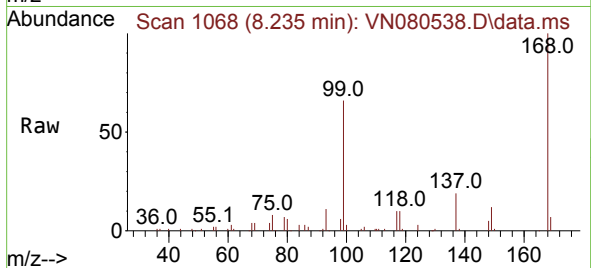
Tgt Ion: 83 Resp: 1090
Ion Ratio Lower Upper
83 100
85 35.6 55.4 83.0#



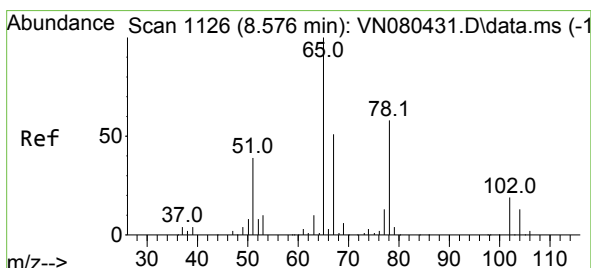
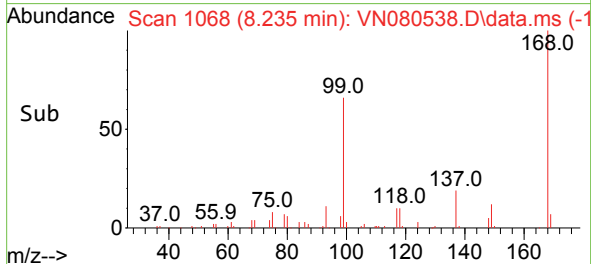
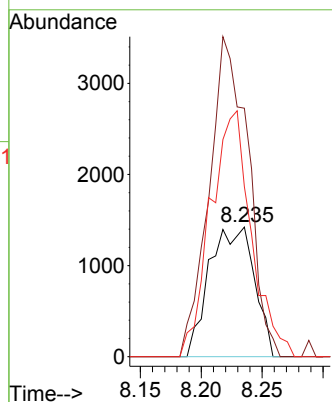


#31
Cyclohexane
Concen: 1.057 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.018 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

Instrument :
MSVOA_N
ClientSampleId :

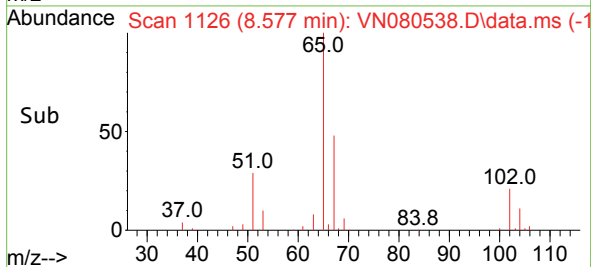
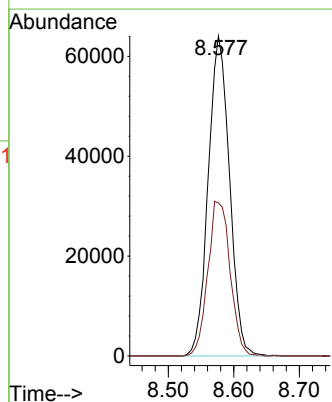
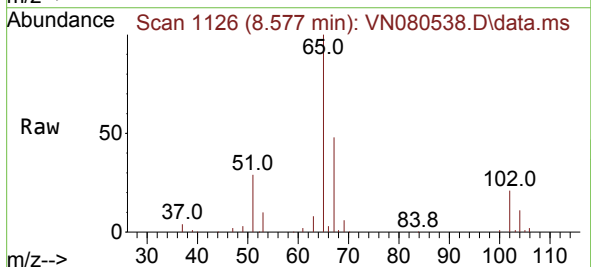


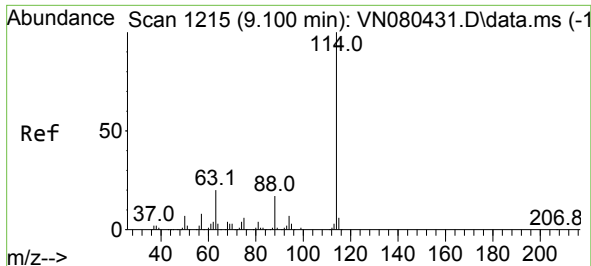
Tgt Ion: 56 Resp: 3651
Ion Ratio Lower Upper
56 100
69 191.6 26.8 40.2#
84 131.2 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 56.885 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

Tgt Ion: 65 Resp: 144497
Ion Ratio Lower Upper
65 100
67 50.7 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN080538.D

Acq: 20 Dec 2023 11:31

Instrument :

MSVOA_N

ClientSampleId :

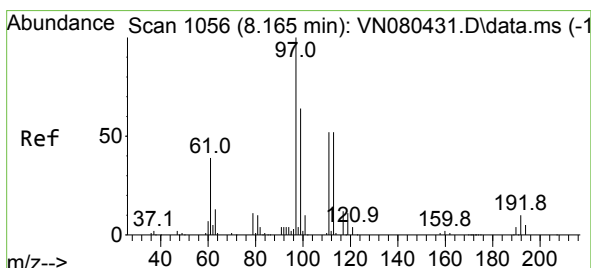
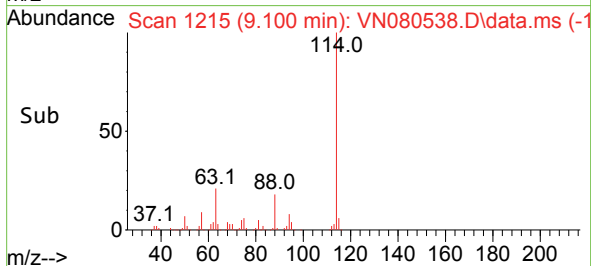
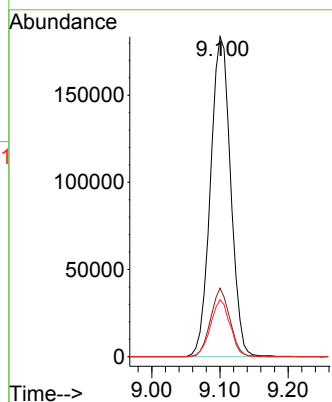
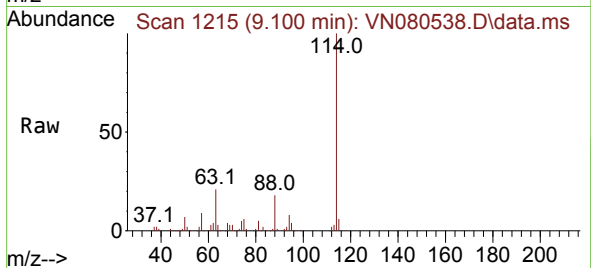
Tgt Ion:114 Resp: 378111

Ion Ratio Lower Upper

114 100

63 21.4 0.0 36.4

88 17.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.263 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN080538.D

Acq: 20 Dec 2023 11:31

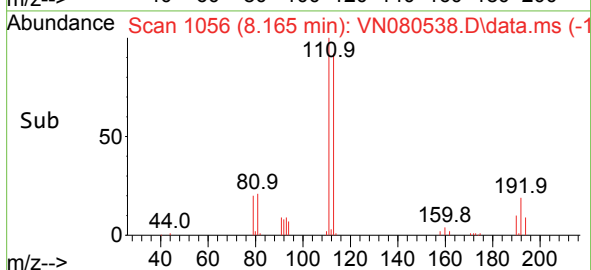
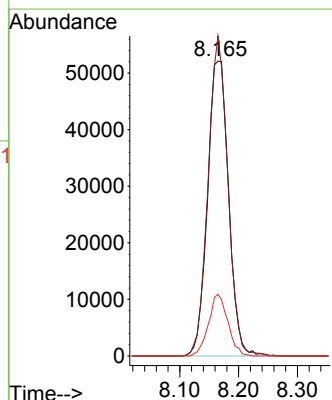
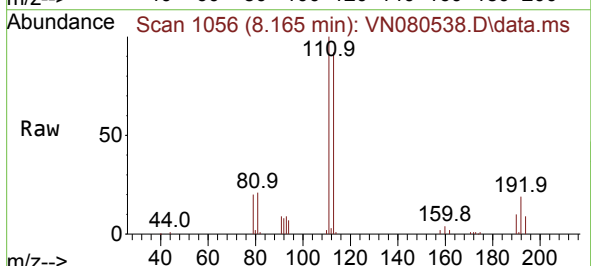
Tgt Ion:113 Resp: 130088

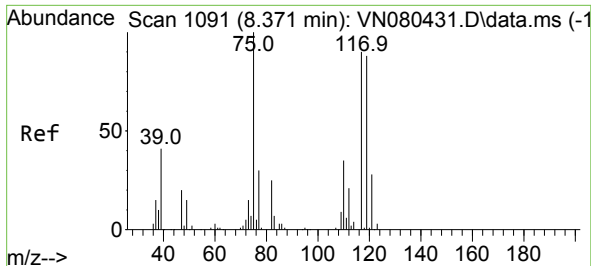
Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

192 19.2 12.7 19.1#





#36

1,1-Dichloropropene

Concen: 4.097 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

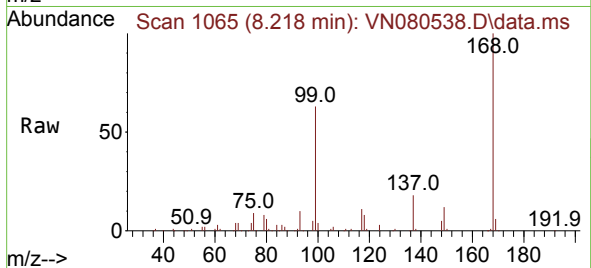
Lab File: VN080538.D

Acq: 20 Dec 2023 11:31

Instrument :

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ClientSampleId :



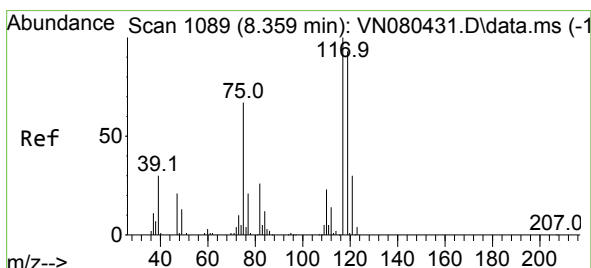
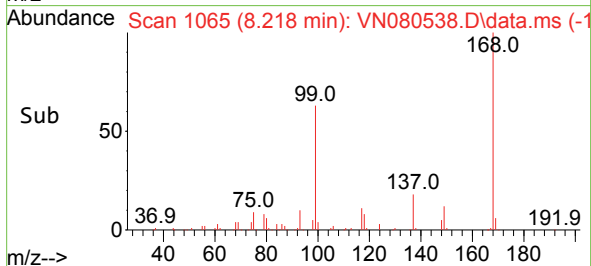
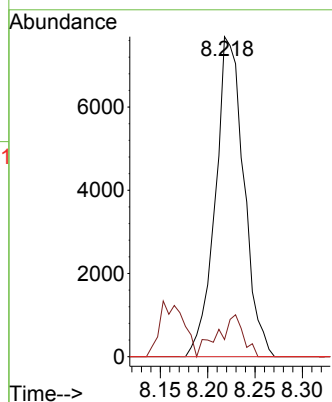
Tgt Ion: 75 Resp: 16058

Ion Ratio Lower Upper

75 100

110 11.7 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.500 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN080538.D

Acq: 20 Dec 2023 11:31

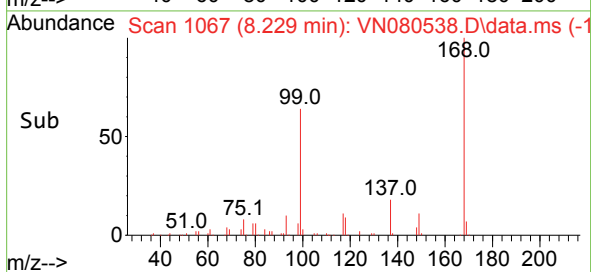
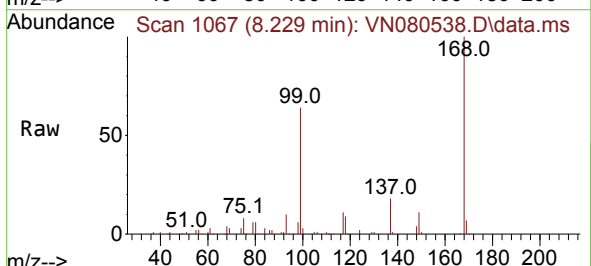
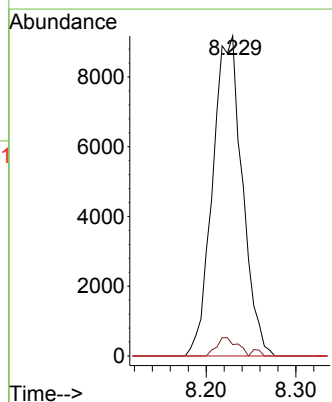
Tgt Ion: 117 Resp: 21075

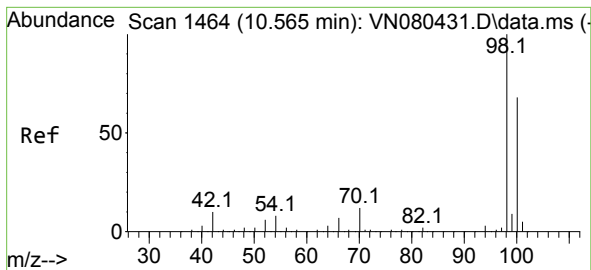
Ion Ratio Lower Upper

117 100

119 3.6 77.3 115.9#

121 0.0 23.3 34.9#

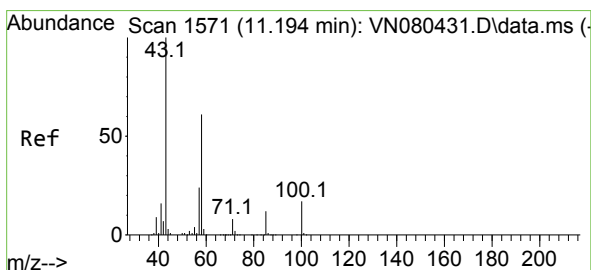
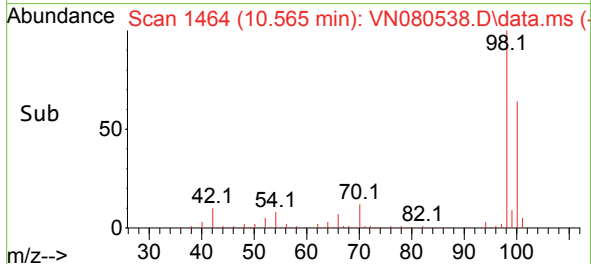
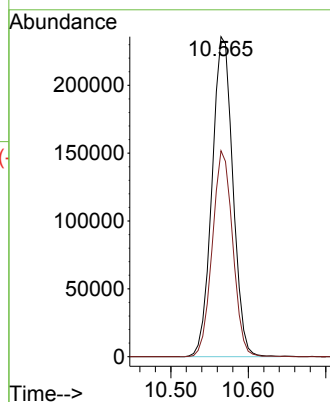
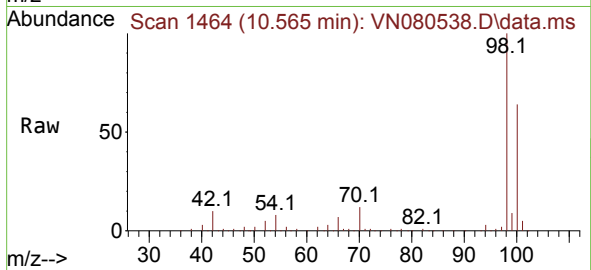




#50
Toluene-d8
Concen: 49.206 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

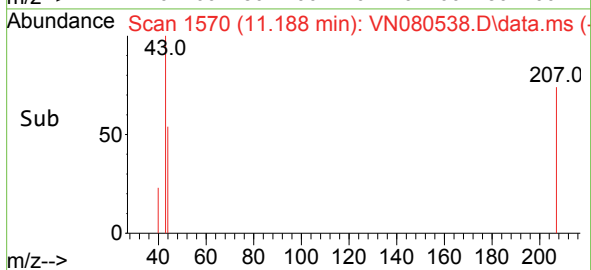
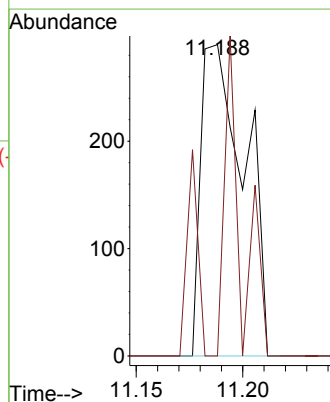
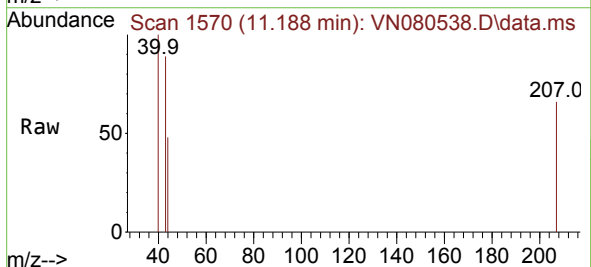
Instrument :
MSVOA_N
ClientSampleId :

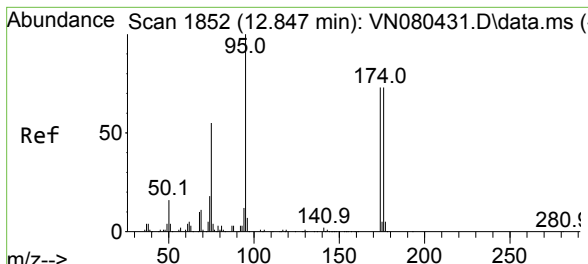
Tgt Ion: 98 Resp: 439951
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0



#59
2-Hexanone
Concen: 0.231 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

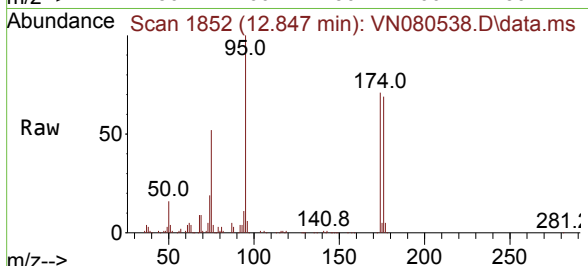
Tgt Ion: 43 Resp: 414
Ion Ratio Lower Upper
43 100
58 38.9 31.7 95.1



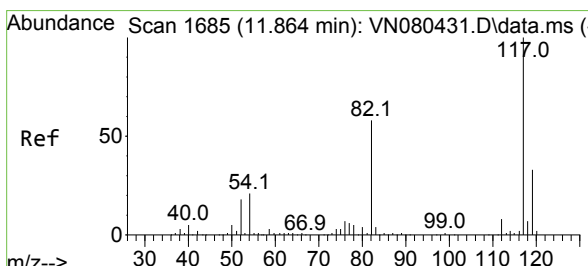
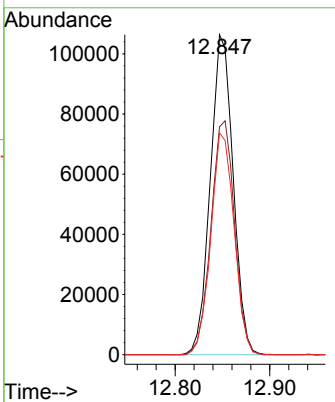
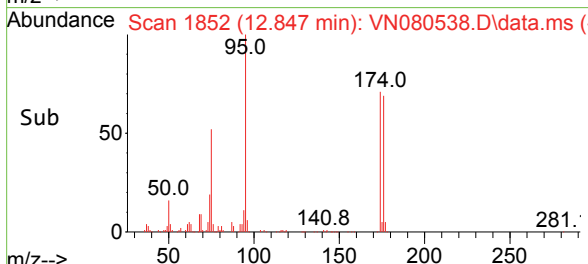


#62
 4-Bromofluorobenzene
 Concen: 52.496 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.000 min
 Lab File: VN080538.D
 Acq: 20 Dec 2023 11:31

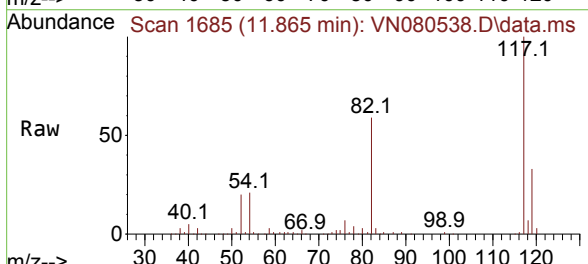
Instrument :
 MSVOA_N
 ClientSampleId :



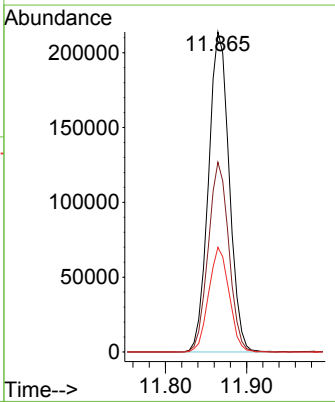
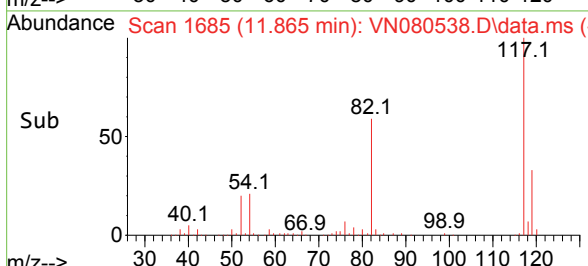
Tgt Ion:	95	Resp:	178230
Ion	Ratio	Lower	Upper
95	100		
174	75.5	0.0	143.8
176	70.5	0.0	135.8

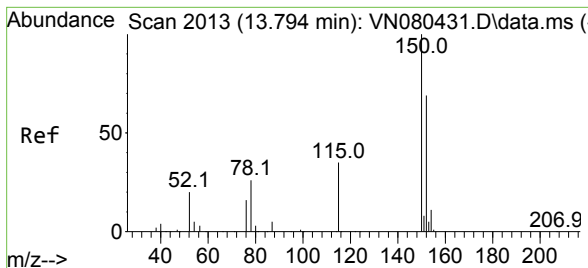


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN080538.D
 Acq: 20 Dec 2023 11:31



Tgt Ion:	117	Resp:	378982
Ion	Ratio	Lower	Upper
117	100		
82	59.3	44.0	66.0
119	32.7	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

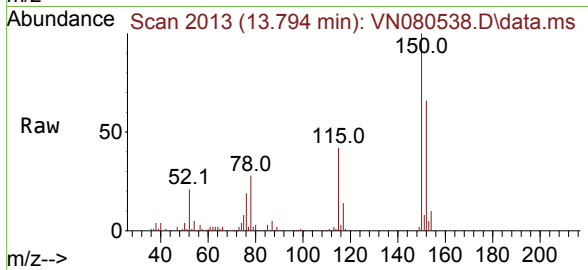
Lab File: VN080538.D

Acq: 20 Dec 2023 11:31

Instrument :

MSVOA_N

ClientSampleId :



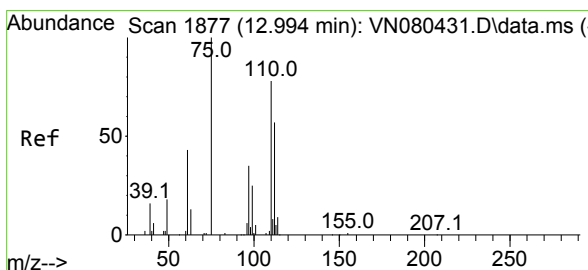
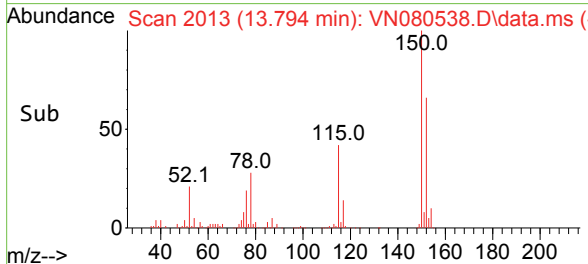
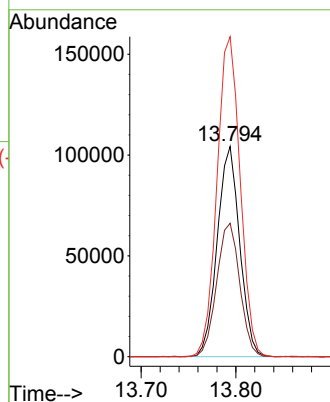
Tgt Ion:152 Resp: 171725

Ion Ratio Lower Upper

152 100

115 65.5 32.3 96.8

150 157.3 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 27.226 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080538.D

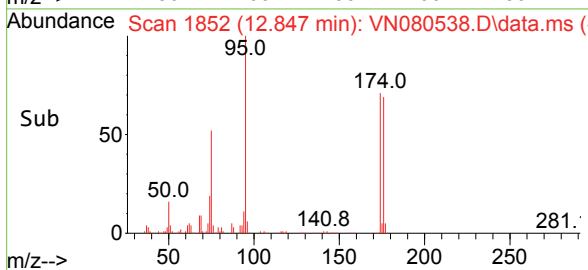
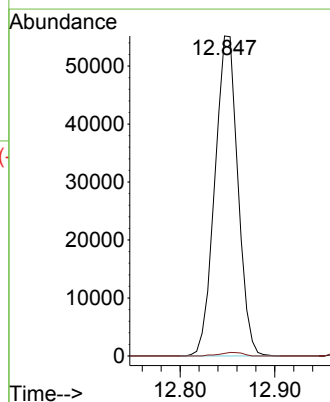
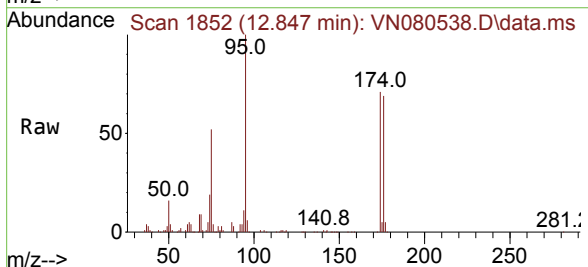
Acq: 20 Dec 2023 11:31

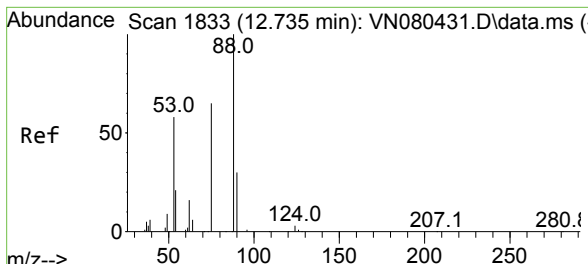
Tgt Ion: 75 Resp: 93273

Ion Ratio Lower Upper

75 100

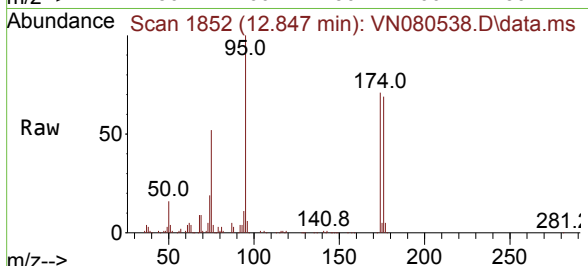
77 1.1 84.5 253.5#



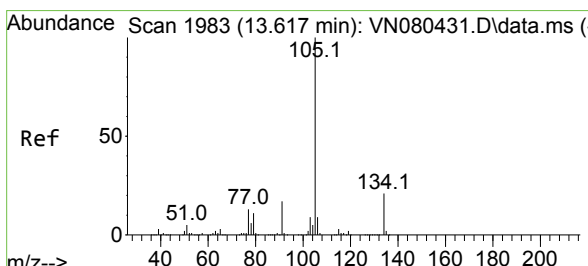
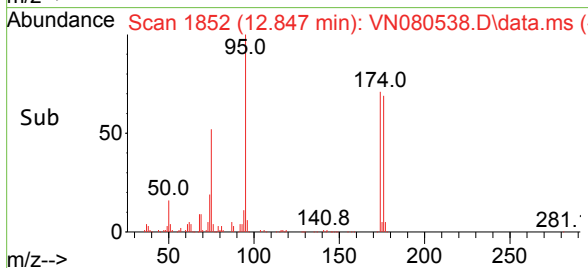
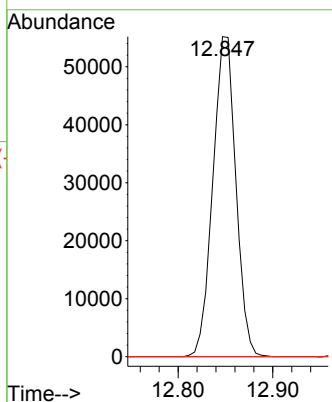


#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.485 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN080538.D
 Acq: 20 Dec 2023 11:31

Instrument :
 MSVOA_N
 ClientSampleId :

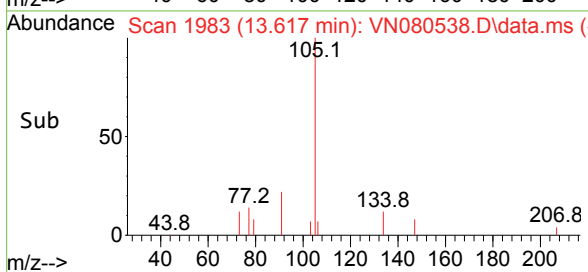
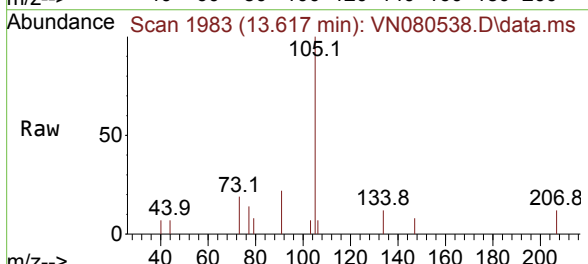
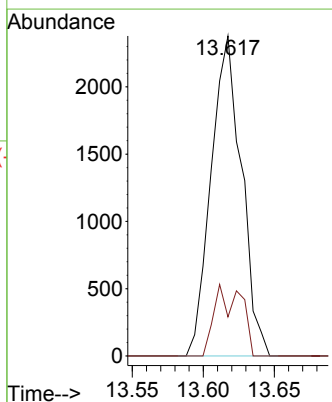


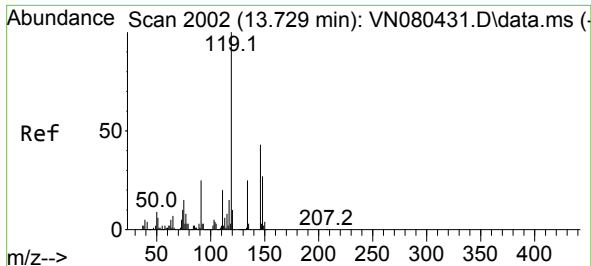
Tgt Ion: 75 Resp: 93273
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#



#85
 sec-Butylbenzene
 Concen: 0.285 ug/l
 RT: 13.617 min Scan# 1983
 Delta R.T. 0.000 min
 Lab File: VN080538.D
 Acq: 20 Dec 2023 11:31

Tgt Ion: 105 Resp: 3546
 Ion Ratio Lower Upper
 105 100
 134 19.5 9.8 29.3

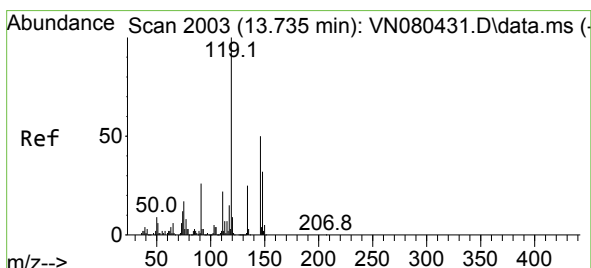
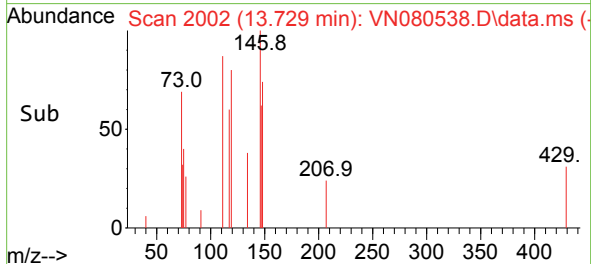
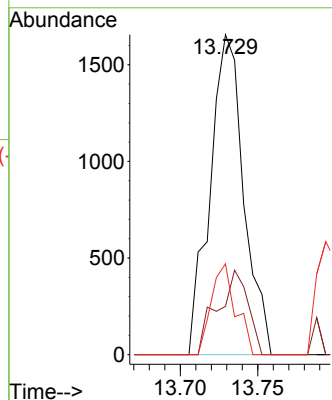
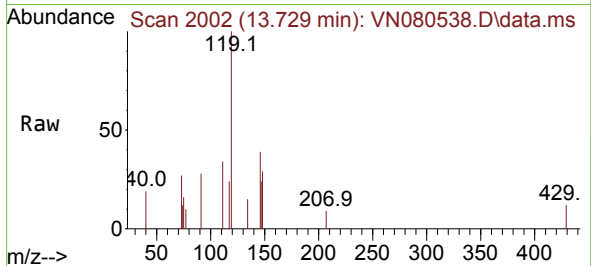




#86
p-Isopropyltoluene
Concen: 0.224 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

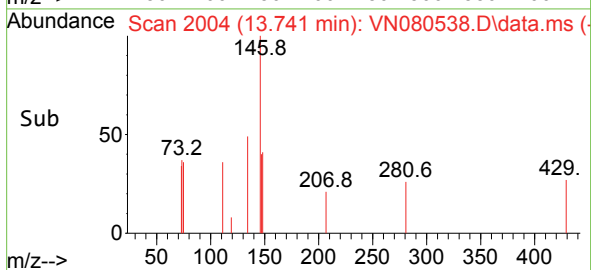
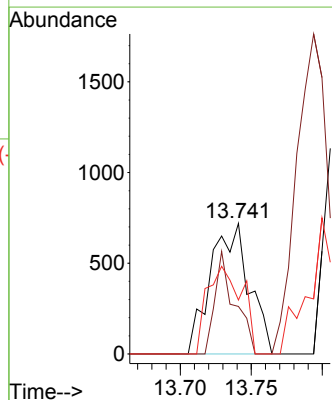
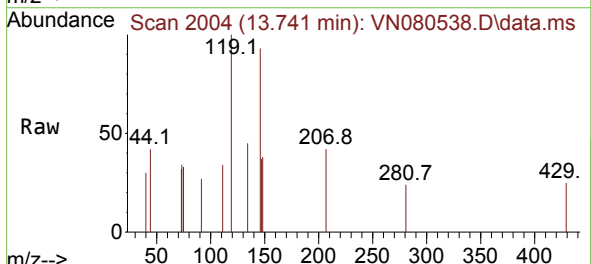
Instrument :
MSVOA_N
ClientSampleId :

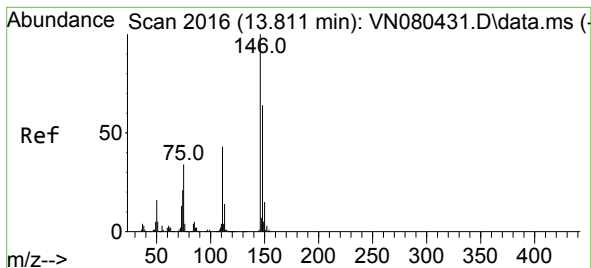
Tgt Ion:119 Resp: 2513
Ion Ratio Lower Upper
119 100
134 23.7 12.6 37.8
91 20.5 12.4 37.2



#87
1,3-Dichlorobenzene
Concen: 0.228 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. 0.006 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

Tgt Ion:146 Resp: 1363
Ion Ratio Lower Upper
146 100
111 40.1 22.1 66.3
148 60.4 32.0 96.0





#88

1,4-Dichlorobenzene

Concen: 0.226 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. -0.071 min

Lab File: VN080538.D

Acq: 20 Dec 2023 11:31

Instrument :

MSVOA_N

ClientSampleId :

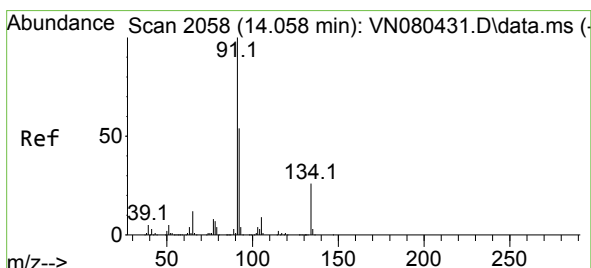
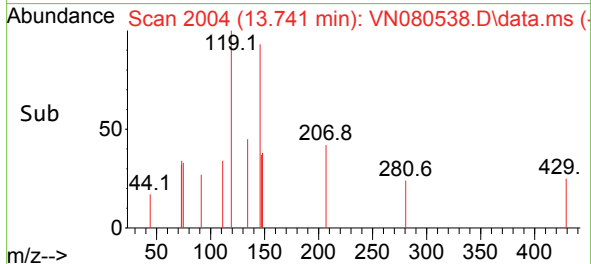
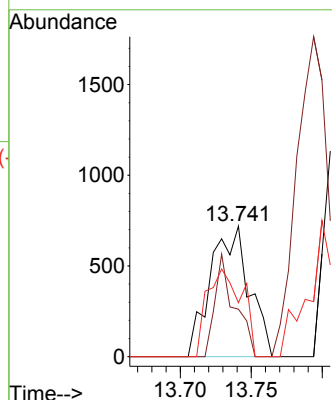
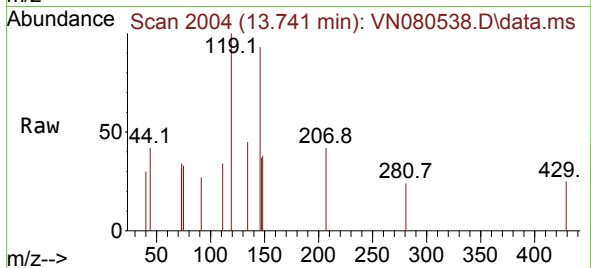
Tgt Ion:146 Resp: 1363

Ion Ratio Lower Upper

146 100

111 40.1 20.6 61.8

148 60.4 31.6 94.8



#89

n-Butylbenzene

Concen: 0.419 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.006 min

Lab File: VN080538.D

Acq: 20 Dec 2023 11:31

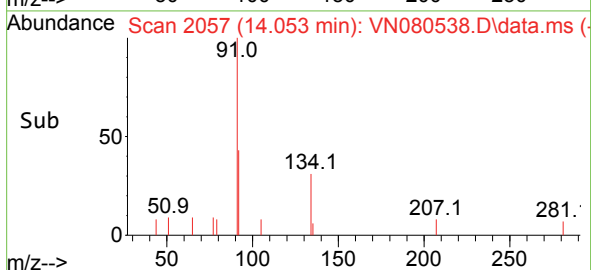
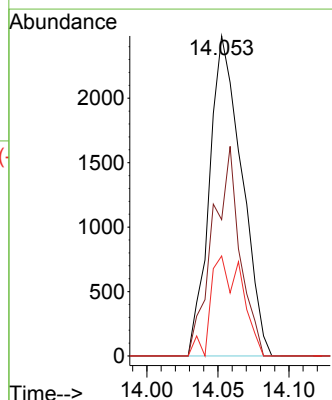
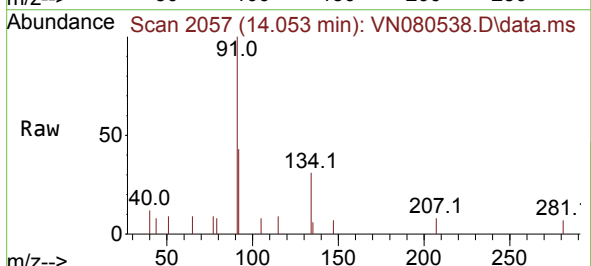
Tgt Ion: 91 Resp: 3932

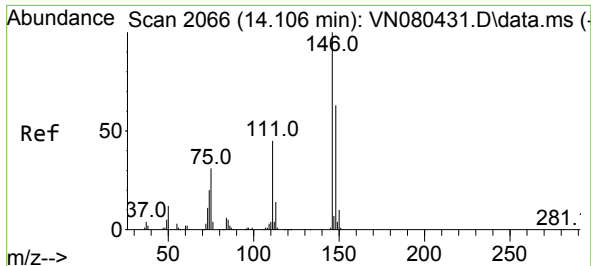
Ion Ratio Lower Upper

91 100

92 55.6 26.4 79.0

134 30.2 12.6 37.6

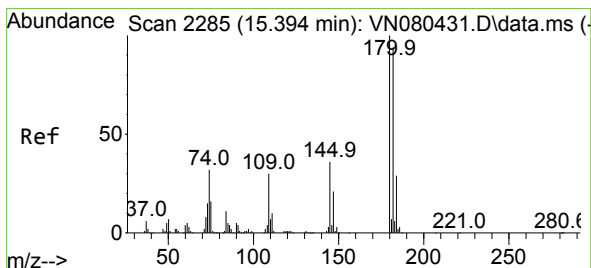
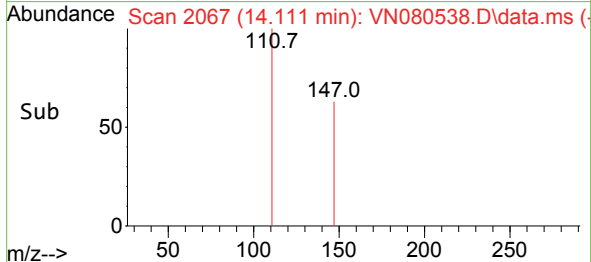
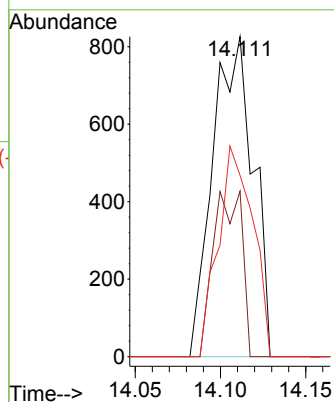
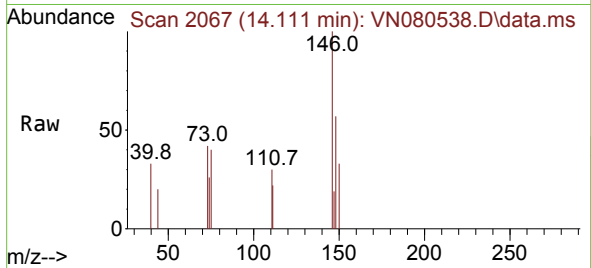




#91
 1,2-Dichlorobenzene
 Concen: 0.240 ug/l
 RT: 14.111 min Scan# 2067
 Delta R.T. 0.006 min
 Lab File: VN080538.D
 Acq: 20 Dec 2023 11:31

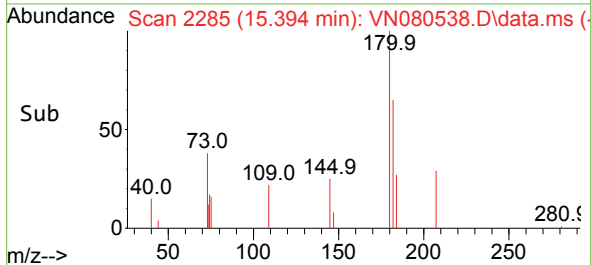
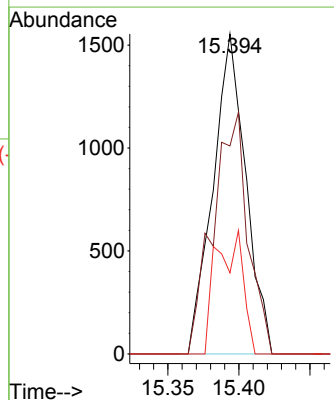
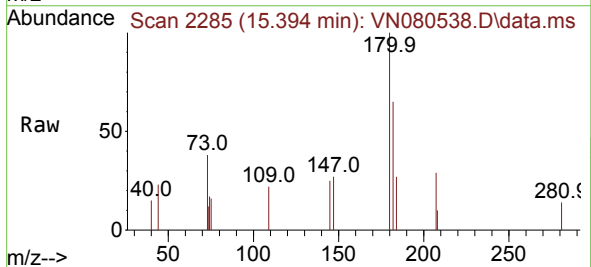
Instrument :
 MSVOA_N
 ClientSampleId :

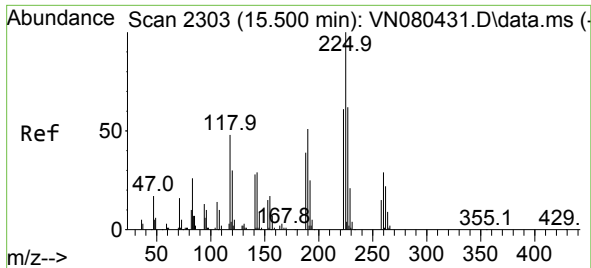
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	22.0	66.0
148	56.4	31.8	95.3



#93
 1,2,4-Trichlorobenzene
 Concen: 0.792 ug/l
 RT: 15.394 min Scan# 2285
 Delta R.T. 0.000 min
 Lab File: VN080538.D
 Acq: 20 Dec 2023 11:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	80.6	46.1	138.2
145	31.4	16.6	49.8

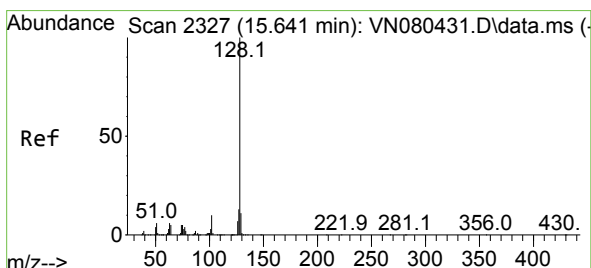
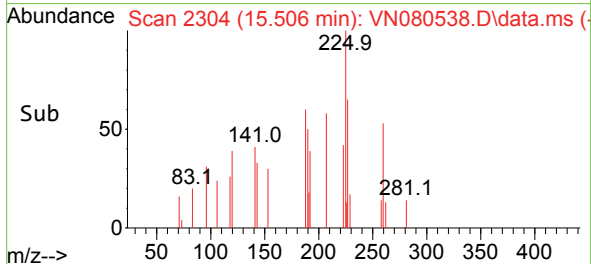
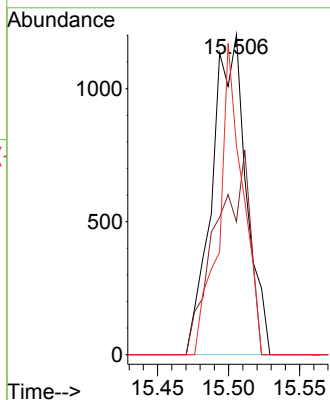
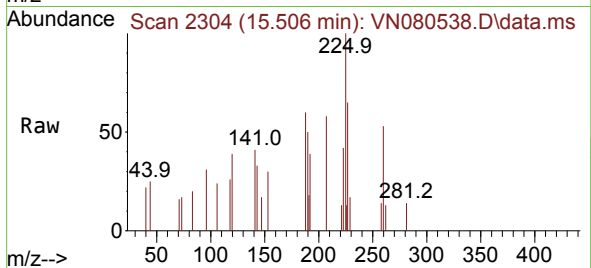




#94
Hexachlorobutadiene
Concen: 1.117 ug/l
RT: 15.506 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

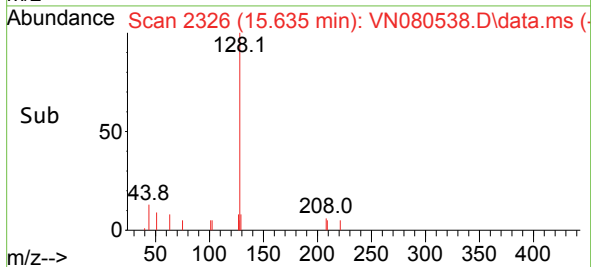
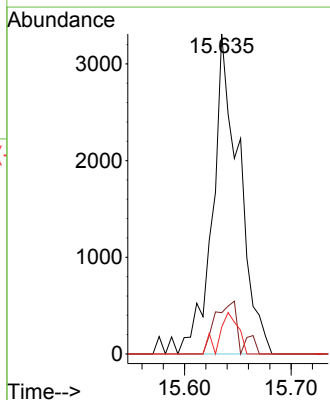
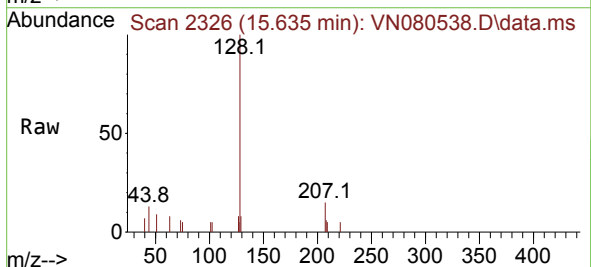
Instrument :
MSVOA_N
ClientSampleId :

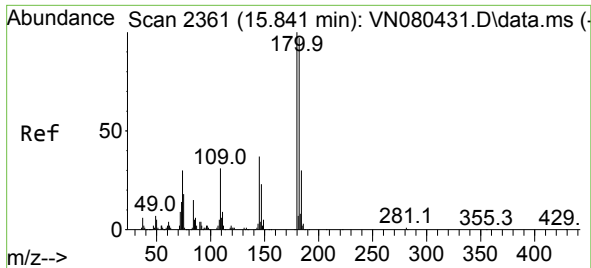
Tgt Ion:225 Resp: 2004
Ion Ratio Lower Upper
225 100
223 63.1 31.3 93.8
227 67.3 31.9 95.9



#95
Naphthalene
Concen: 0.598 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN080538.D
Acq: 20 Dec 2023 11:31

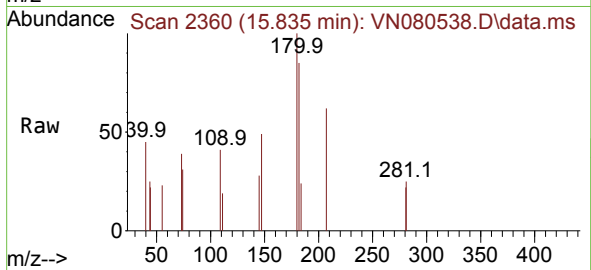
Tgt Ion:128 Resp: 5722
Ion Ratio Lower Upper
128 100
127 15.2 10.0 15.0#
129 9.2 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.359 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN080538.D
 Acq: 20 Dec 2023 11:31

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 1092
 Ion Ratio Lower Upper
 180 100
 182 180.3 46.2 138.6#
 145 56.6 17.5 52.6#

