

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122023\
 Data File : VN080547.D
 Acq On : 20 Dec 2023 15:20
 Operator : JC\MD
 Sample : 05863-02 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 02:43:02 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)

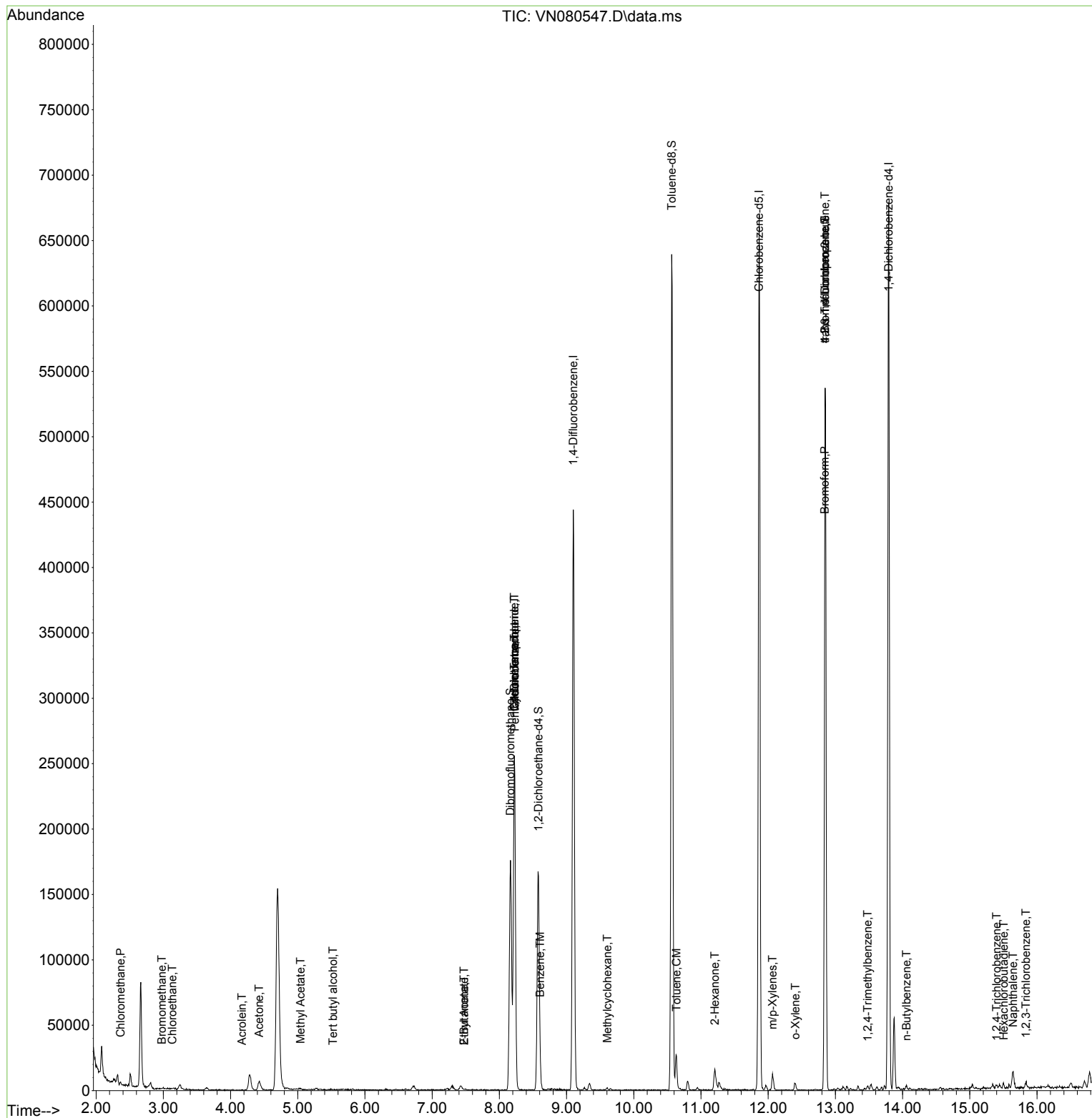
Internal Standards						
1) Pentafluorobenzene	8.230	168	178611	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	351899	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	384025	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	182158	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	147185	64.519	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 129.040%#			
35) Dibromofluoromethane	8.165	113	124259	55.692	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.380%			
50) Toluene-d8	10.565	98	455010	54.681	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.360%			
62) 4-Bromofluorobenzene	12.847	95	193296	61.174	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 122.340%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	3501	1.073	ug/l	95
5) Bromomethane	2.977	94	221	0.251	ug/l #	4
6) Chloroethane	3.136	64	254	0.203	ug/l #	43
11) Tert butyl alcohol	5.524	59	60	0.223	ug/l #	72
13) Acrolein	4.171	56	146	0.496	ug/l #	82
16) Acetone	4.424	43	12140	30.013	ug/l	90
18) Methyl Acetate	5.042	43	1722	0.662	ug/l #	42
25) 2-Butanone	7.477	43	846	1.086	ug/l #	37
31) Cyclohexane	8.224	56	5111	1.647	ug/l #	39
36) 1,1-Dichloropropene	8.224	75	14141	3.876	ug/l #	51
37) Ethyl Acetate	7.477	43	846	0.370	ug/l #	63
38) Carbon Tetrachloride	8.224	117	20496	4.702	ug/l #	16
39) Methylcyclohexane	9.606	83	949	0.250	ug/l #	87
40) Benzene	8.606	78	7917	0.752	ug/l	94
52) Toluene	10.635	92	11530	1.733	ug/l	99
59) 2-Hexanone	11.206	43	4930	2.952	ug/l #	29
68) m/p-Xylenes	12.065	106	3724	0.642	ug/l	82
69) o-Xylene	12.406	106	1502	0.265	ug/l	98
71) Bromoform	12.841	173	804	0.329	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	102953	28.331	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	102953	74.384	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.482	105	2563	0.204	ug/l	86
89) n-Butylbenzene	14.059	91	2133	0.214	ug/l	94
93) 1,2,4-Trichlorobenzene	15.400	180	1159	0.347	ug/l	84
94) Hexachlorobutadiene	15.506	225	1148	0.603	ug/l	95
95) Naphthalene	15.647	128	12019	1.184	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	1067	0.331	ug/l	74

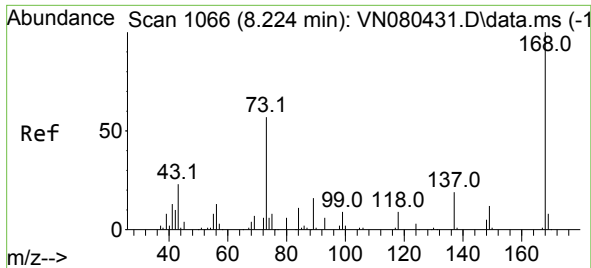
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

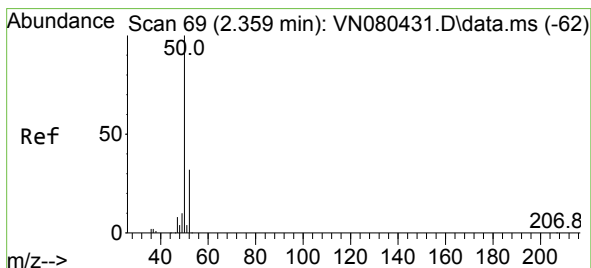
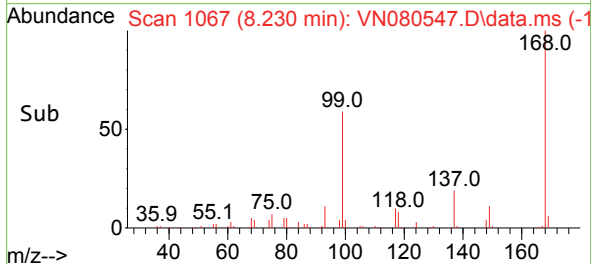
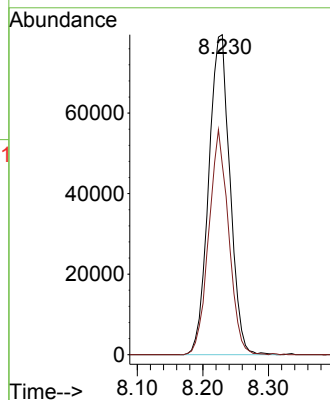
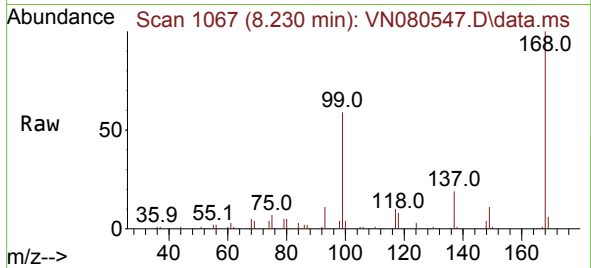




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

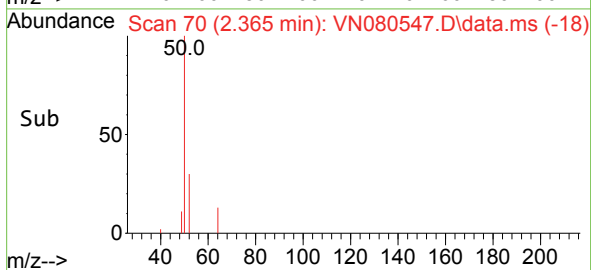
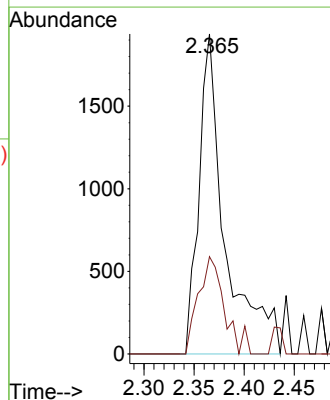
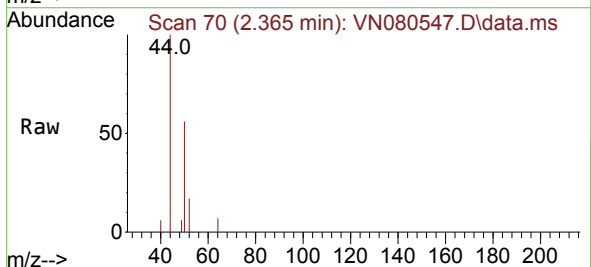
Instrument :
MSVOA_N
ClientSampleId :

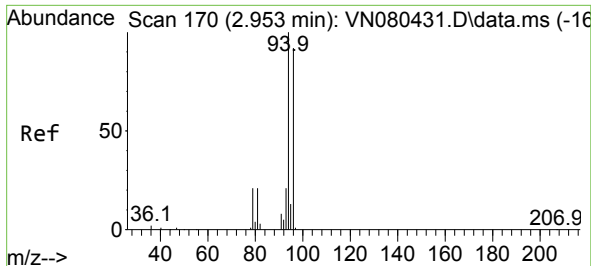
Tgt Ion:168 Resp: 178611
Ion Ratio Lower Upper
168 100
99 59.5 53.0 79.6



#3
Chloromethane
Concen: 1.073 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion: 50 Resp: 3501
Ion Ratio Lower Upper
50 100
52 30.4 26.5 39.7

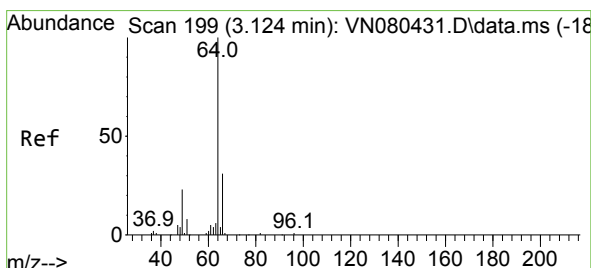
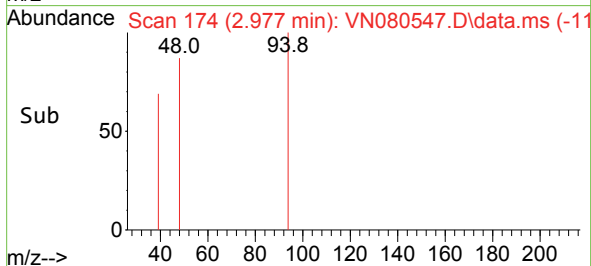
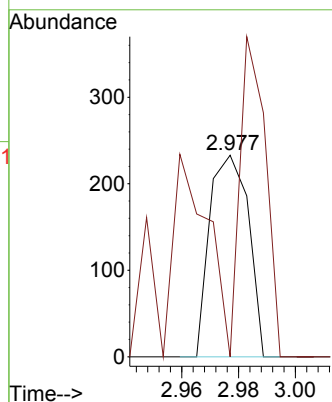
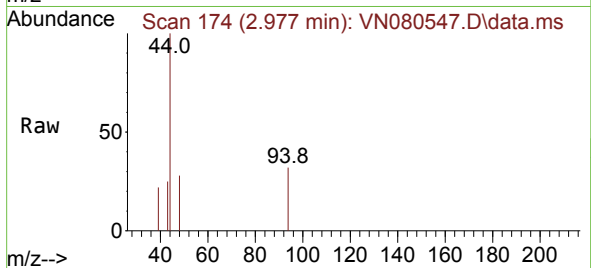




#5
Bromomethane
Concen: 0.251 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

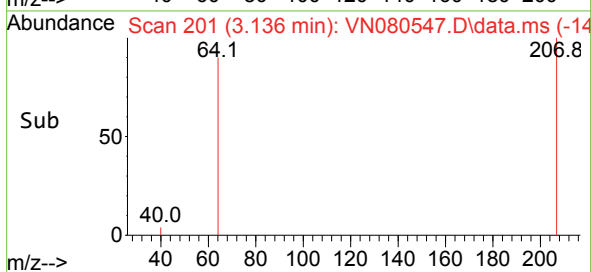
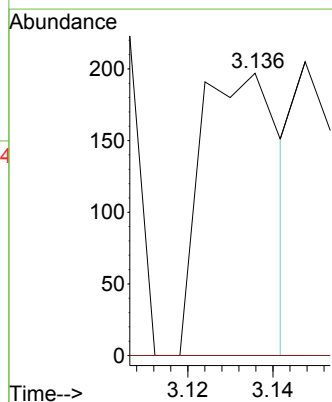
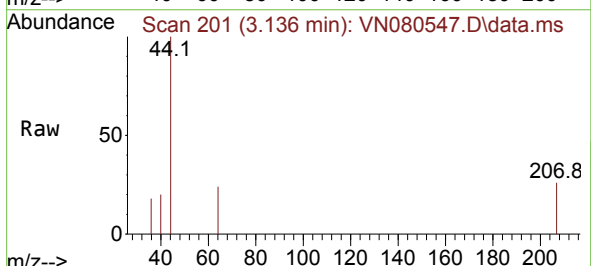
Instrument :
MSVOA_N
ClientSampleId :

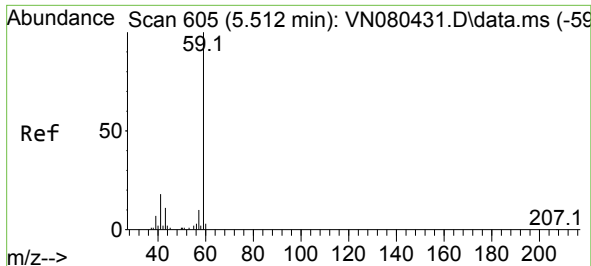
Tgt Ion: 94 Resp: 221
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#6
Chloroethane
Concen: 0.203 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion: 64 Resp: 254
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

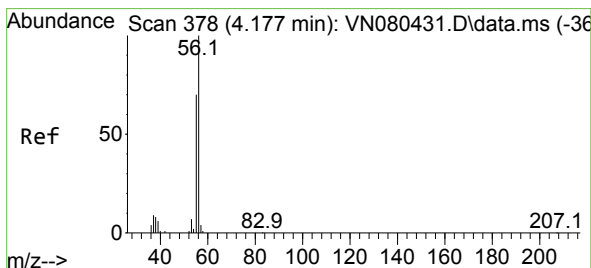
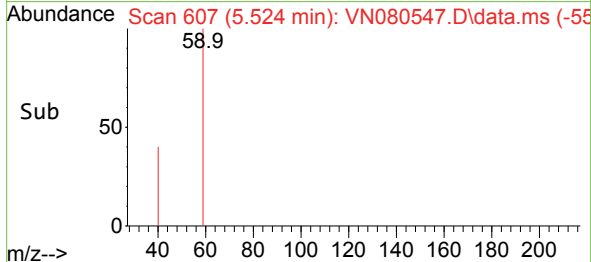
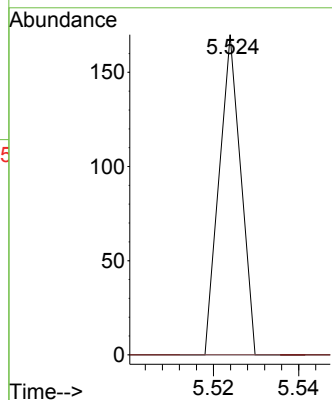
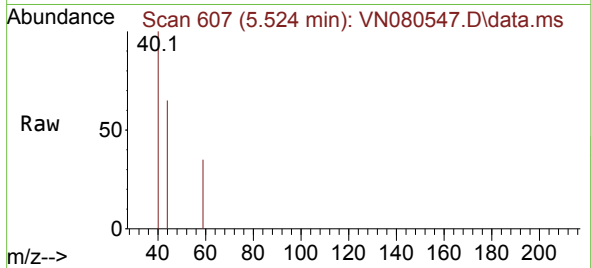




#11
Tert butyl alcohol
Concen: 0.223 ug/l
RT: 5.524 min Scan# 60
Delta R.T. 0.012 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

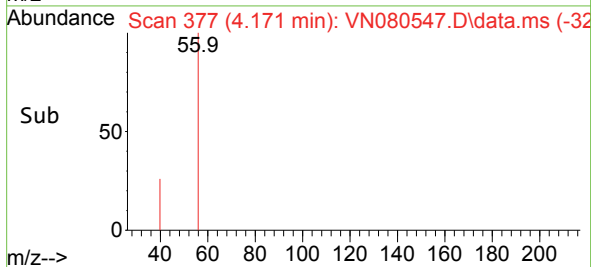
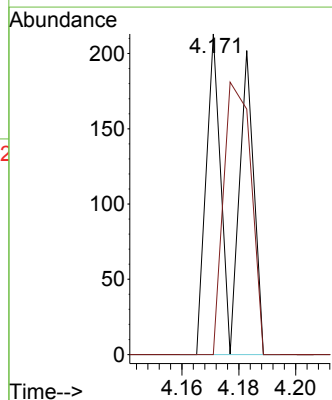
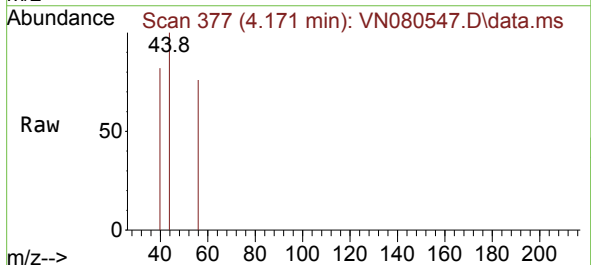
Instrument :
MSVOA_N
ClientSampleId :

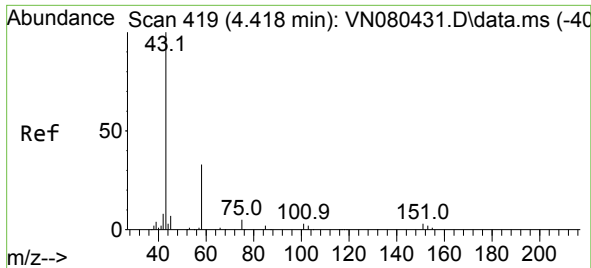
Tgt Ion: 59 Resp: 60
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.496 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion: 56 Resp: 146
Ion Ratio Lower Upper
56 100
55 82.9 54.5 81.7#

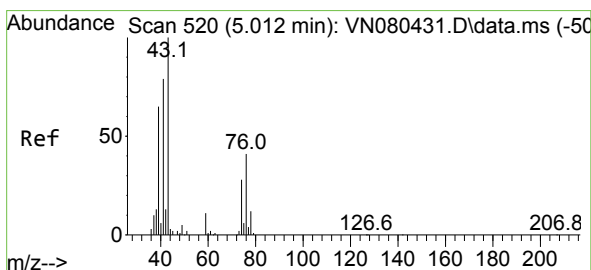
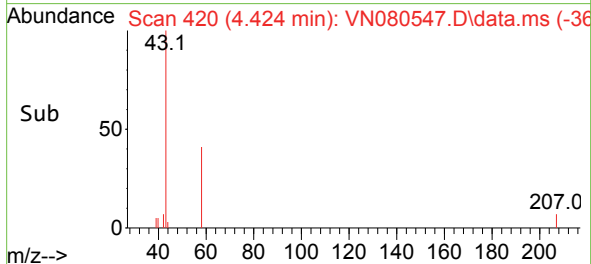
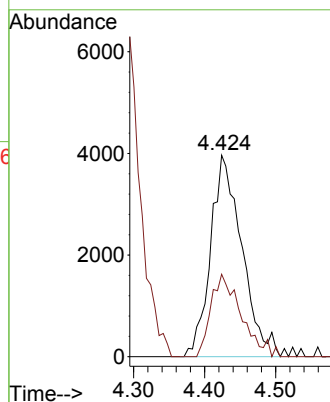
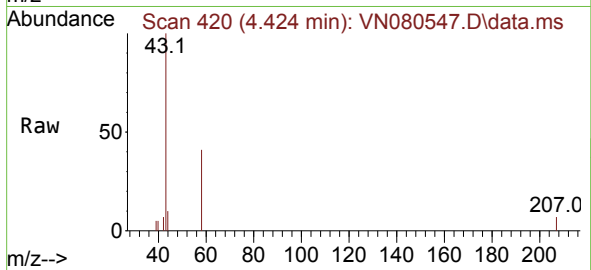




#16
Acetone
Concen: 30.013 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

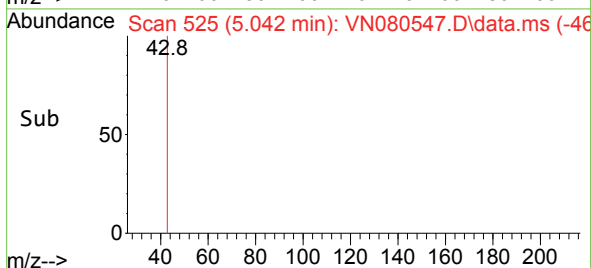
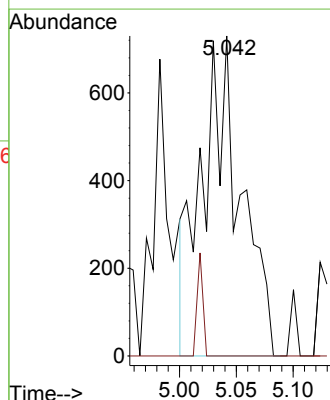
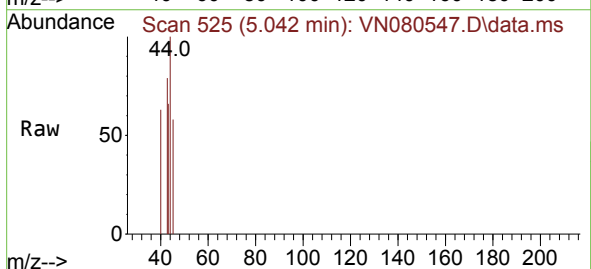
Instrument :
MSVOA_N
ClientSampleId :

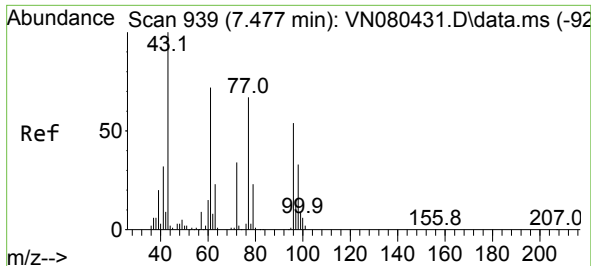
Tgt Ion: 43 Resp: 12140
Ion Ratio Lower Upper
43 100
58 40.9 28.0 42.0



#18
Methyl Acetate
Concen: 0.662 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.030 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion: 43 Resp: 1722
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#

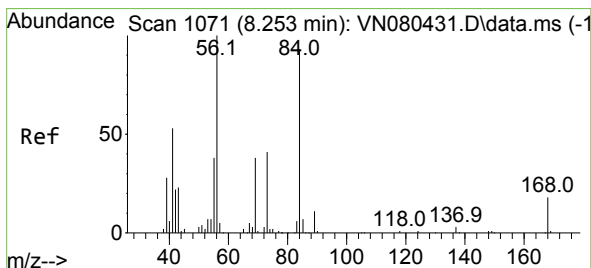
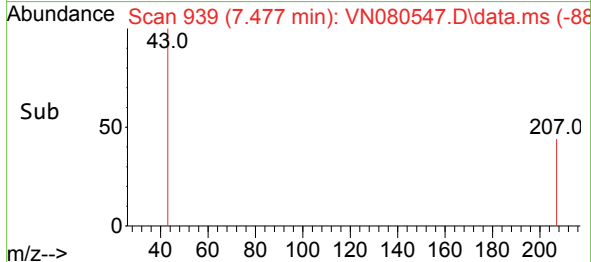
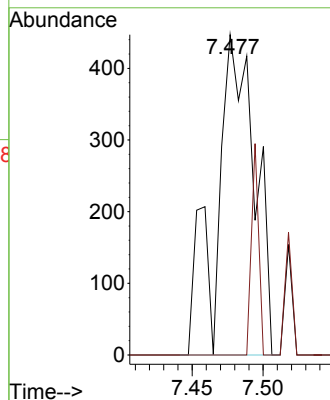
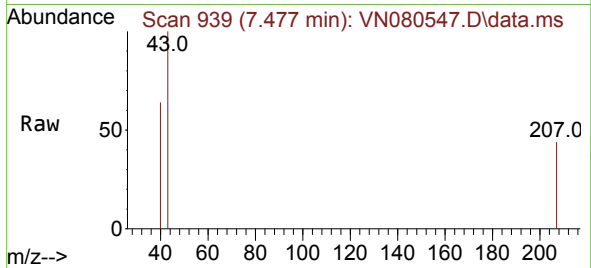




#25
2-Butanone
Concen: 1.086 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

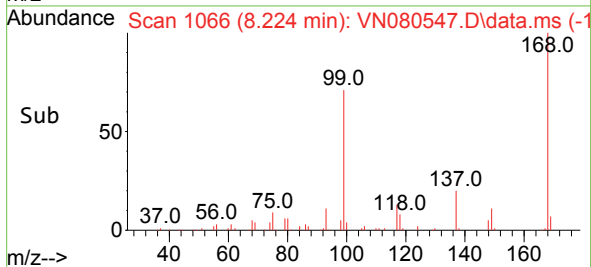
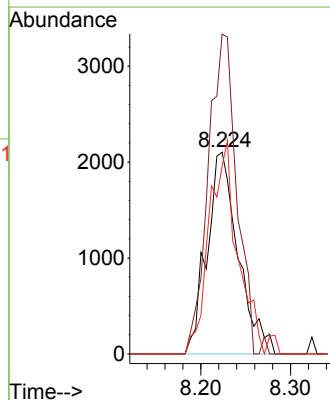
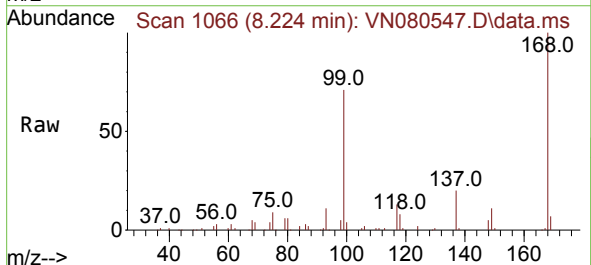
Instrument :
MSVOA_N
ClientSampleId :

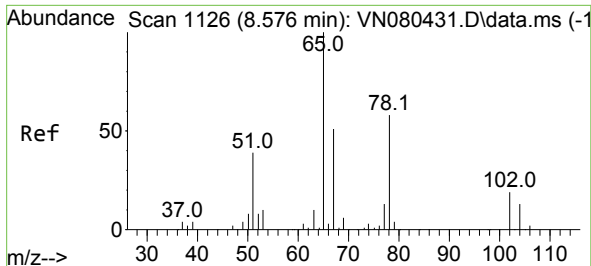
Tgt Ion: 43 Resp: 846
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.647 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion: 56 Resp: 5111
Ion Ratio Lower Upper
56 100
69 158.6 26.8 40.2#
84 93.0 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 64.519 ug/l

RT: 8.582 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN080547.D

Acq: 20 Dec 2023 15:20

Instrument :

MSVOA_N

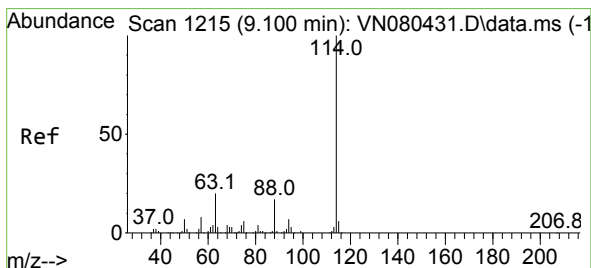
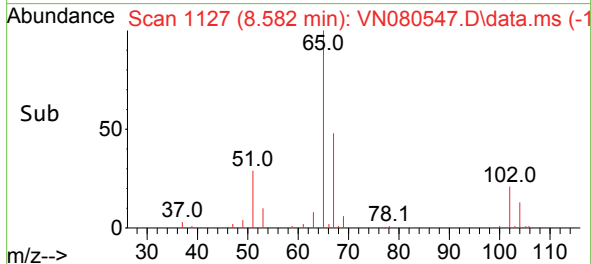
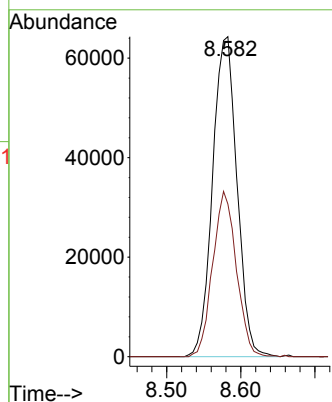
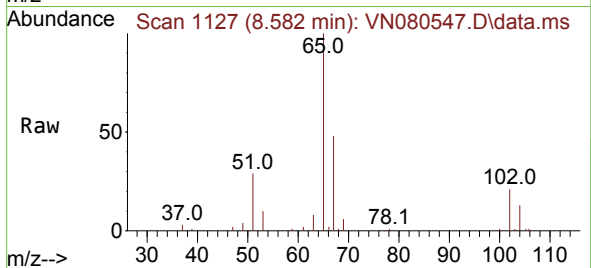
ClientSampleId :

Tgt Ion: 65 Resp: 147185

Ion Ratio Lower Upper

65 100

67 50.0 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: VN080547.D

Acq: 20 Dec 2023 15:20

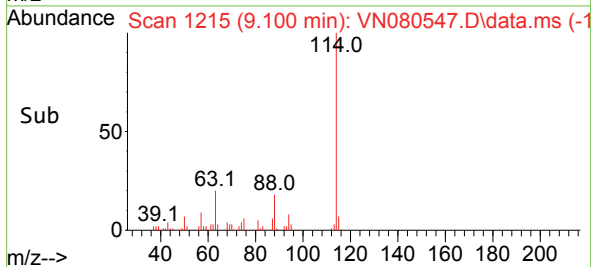
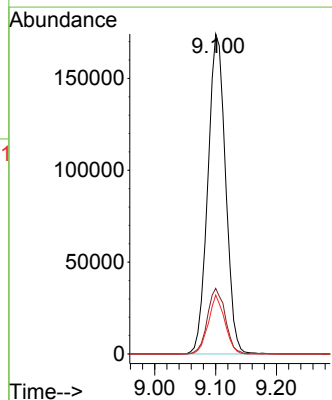
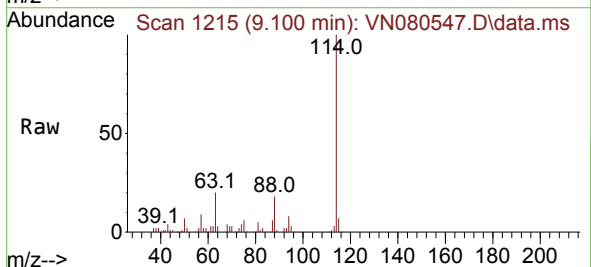
Tgt Ion: 114 Resp: 351899

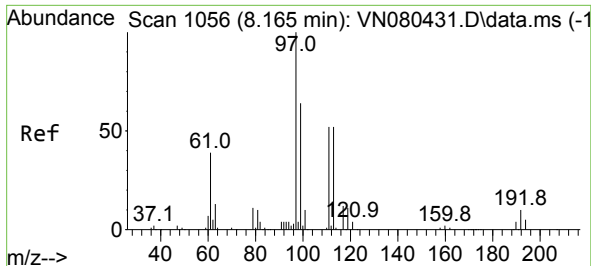
Ion Ratio Lower Upper

114 100

63 20.5 0.0 36.4

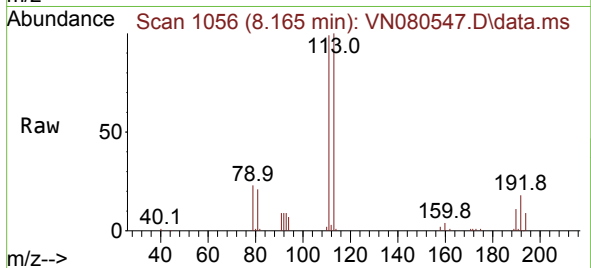
88 18.4 0.0 30.6



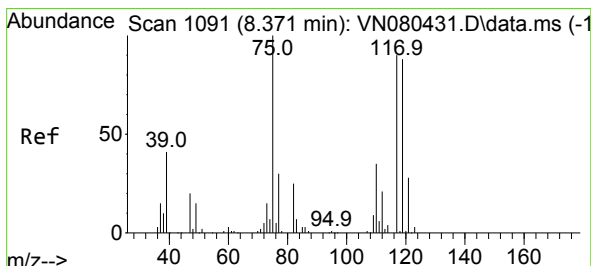
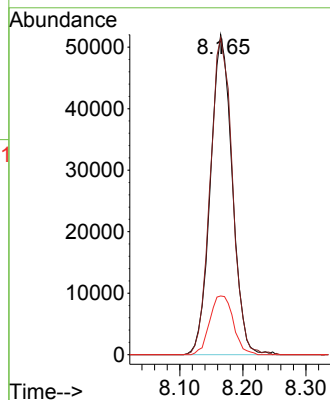
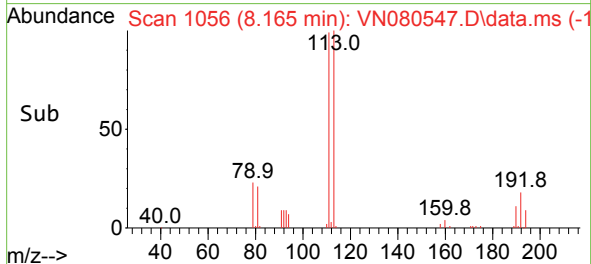


#35
Dibromofluoromethane
Concen: 55.692 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Instrument :
MSVOA_N
ClientSampleId :

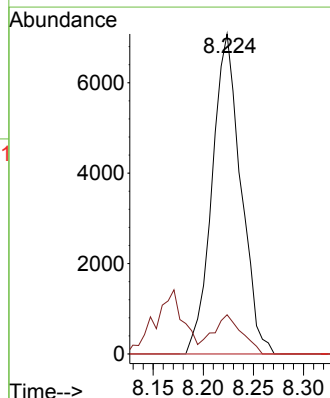
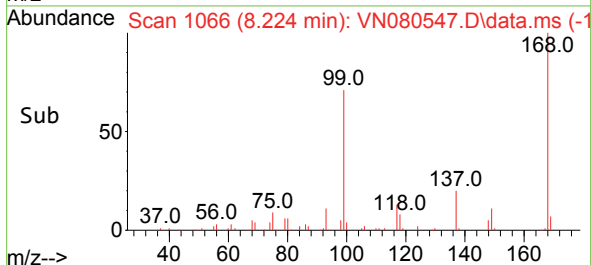
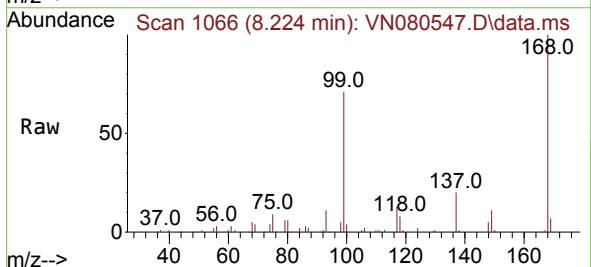


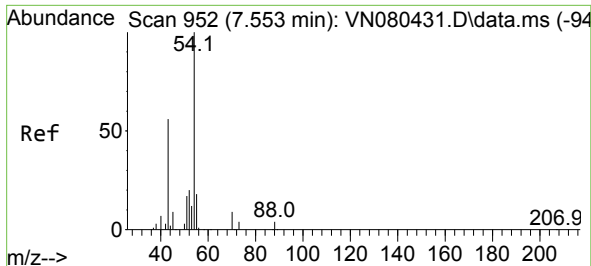
Tgt Ion:113 Resp: 124259
Ion Ratio Lower Upper
113 100
111 101.3 82.6 123.8
192 19.9 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 3.876 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

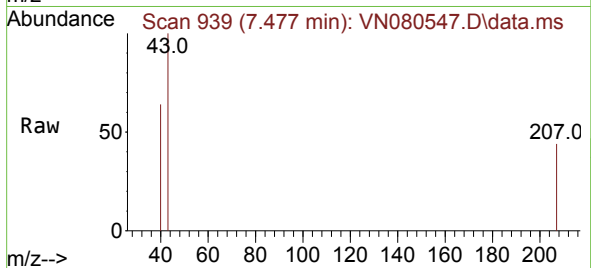
Tgt Ion: 75 Resp: 14141
Ion Ratio Lower Upper
75 100
110 12.4 19.1 57.3#
77 0.0 25.0 37.4#



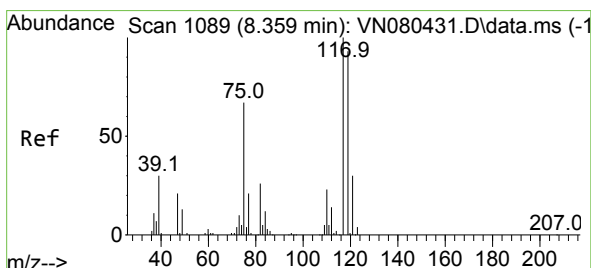
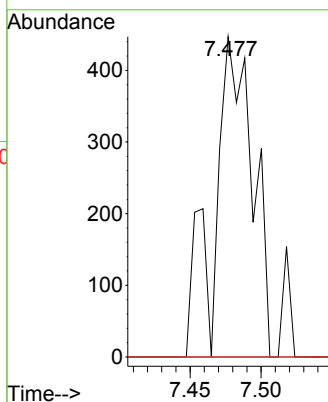
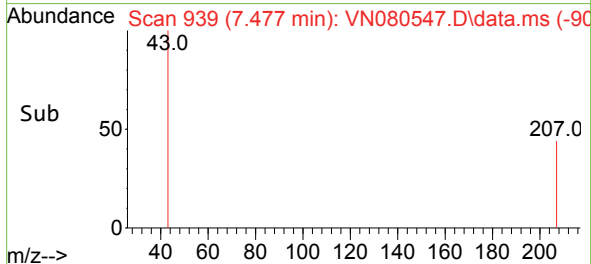


#37
Ethyl Acetate
Concen: 0.370 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.076 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Instrument :
MSVOA_N
ClientSampleId :

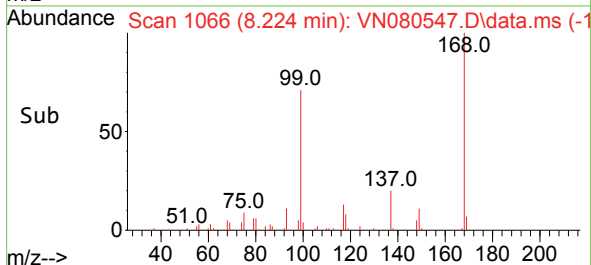
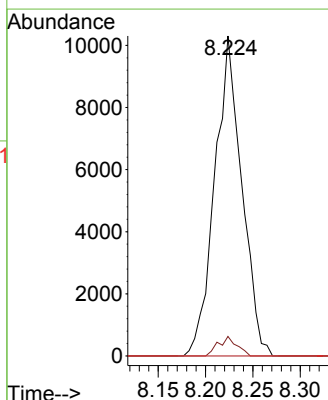
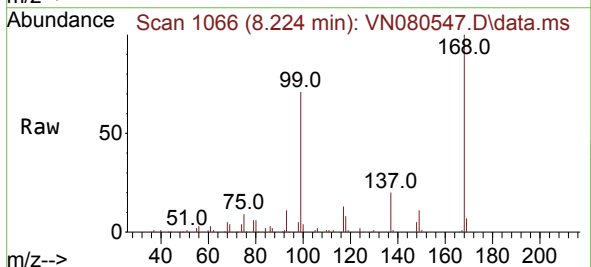


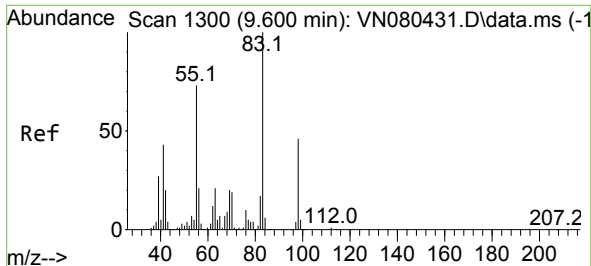
Tgt Ion: 43 Resp: 846
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 0.0 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.702 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion: 117 Resp: 20496
Ion Ratio Lower Upper
117 100
119 6.1 77.3 115.9#
121 0.0 23.3 34.9#





#39

Methylcyclohexane

Concen: 0.250 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. 0.006 min

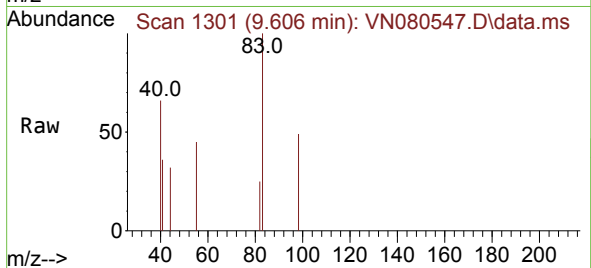
Lab File: VN080547.D

Acq: 20 Dec 2023 15:20

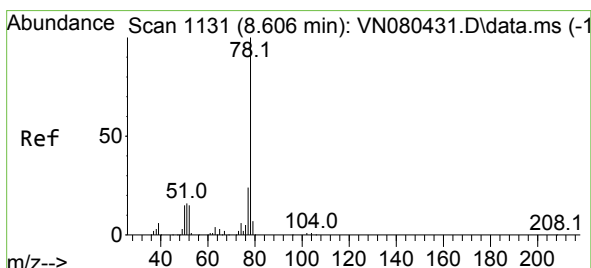
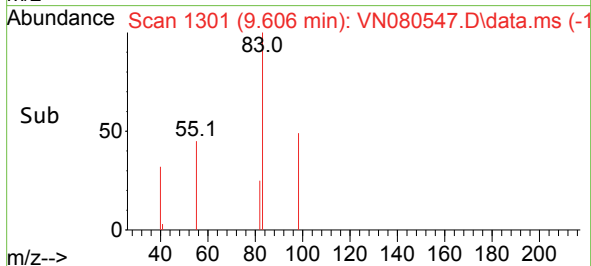
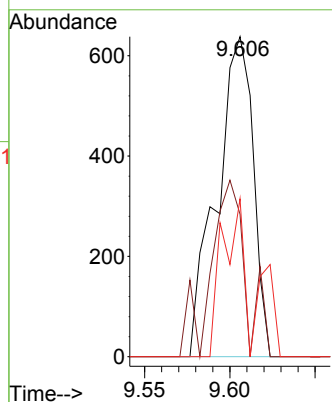
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	83	Resp:	949
Ion	Ratio	Lower	Upper
83	100		
55	44.5	49.1	73.7#
98	49.4	40.6	61.0



#40

Benzene

Concen: 0.752 ug/l

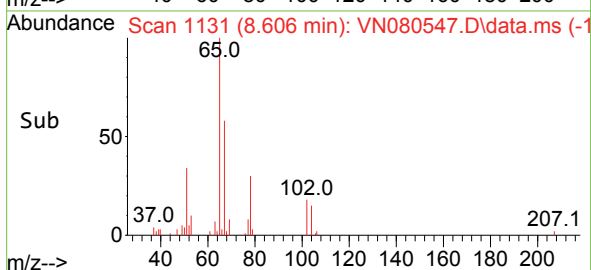
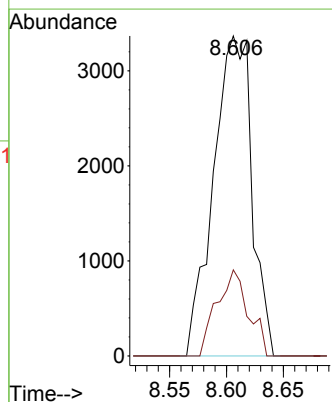
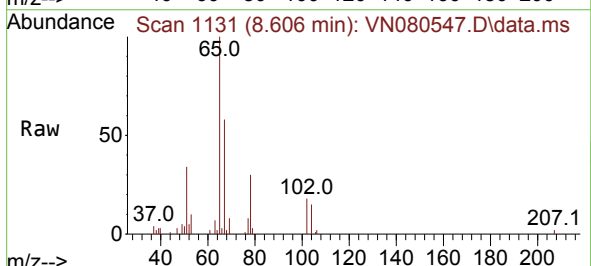
RT: 8.606 min Scan# 1131

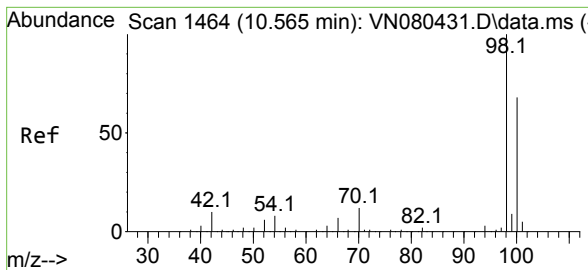
Delta R.T. 0.000 min

Lab File: VN080547.D

Acq: 20 Dec 2023 15:20

Tgt Ion:	78	Resp:	7917
Ion	Ratio	Lower	Upper
78	100		
77	26.9	19.0	28.6

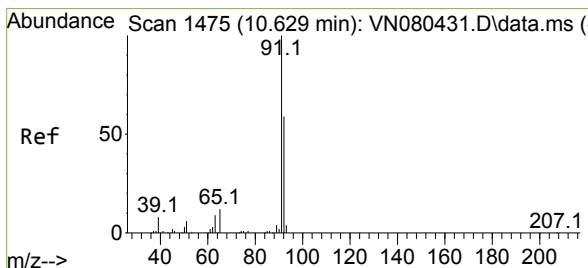
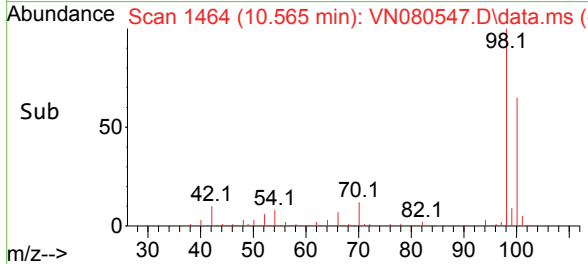
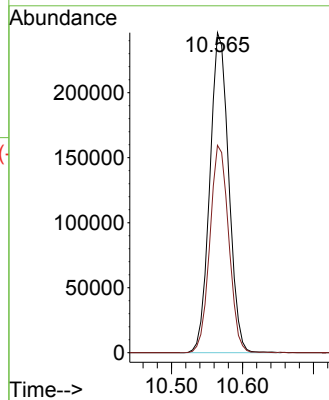
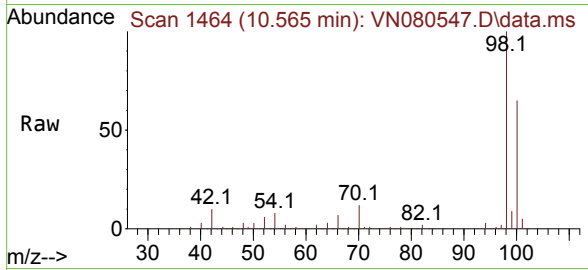




#50
Toluene-d8
Concen: 54.681 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

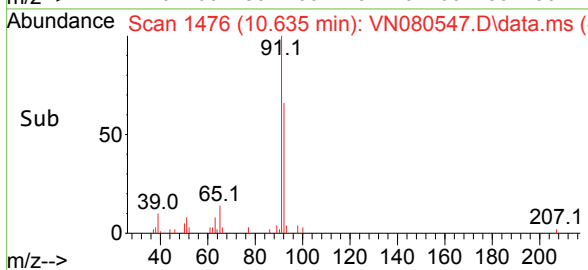
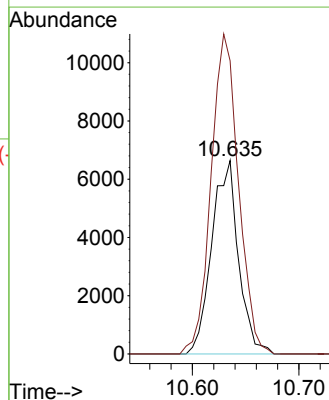
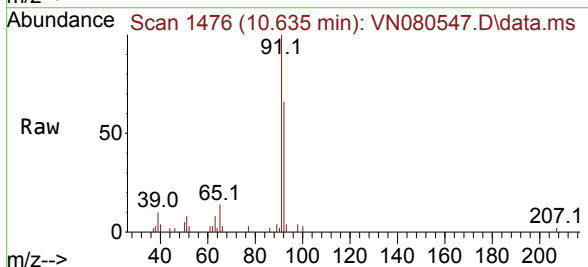
Instrument :
MSVOA_N
ClientSampleId :

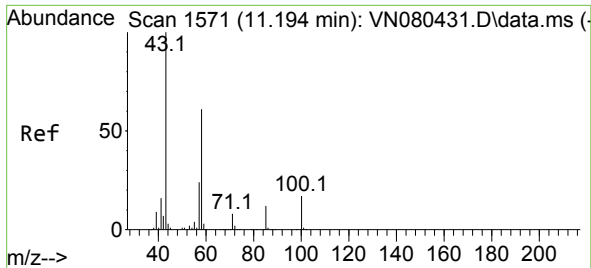
Tgt Ion: 98 Resp: 455010
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0



#52
Toluene
Concen: 1.733 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion: 92 Resp: 11530
Ion Ratio Lower Upper
92 100
91 170.3 137.4 206.0

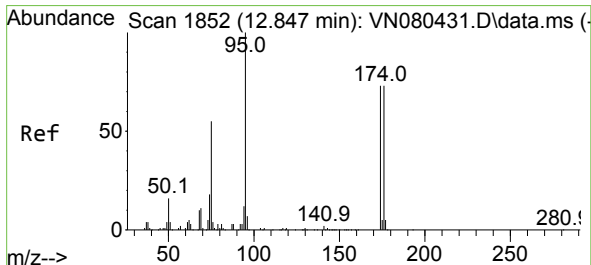
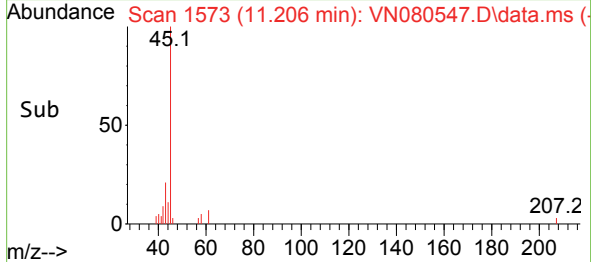
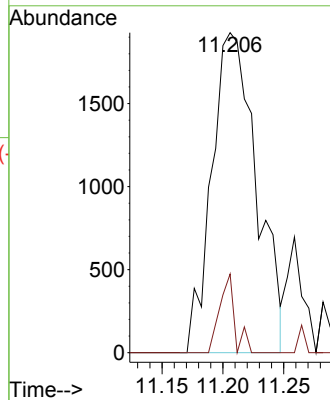
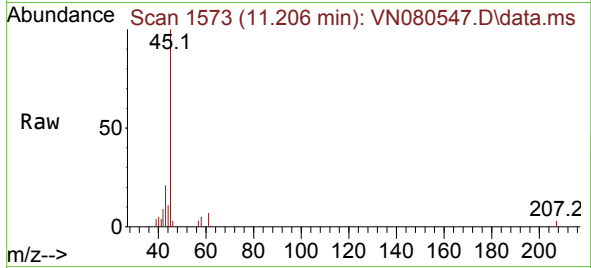




#59
2-Hexanone
Concen: 2.952 ug/l
RT: 11.206 min Scan# 1157
Delta R.T. 0.012 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

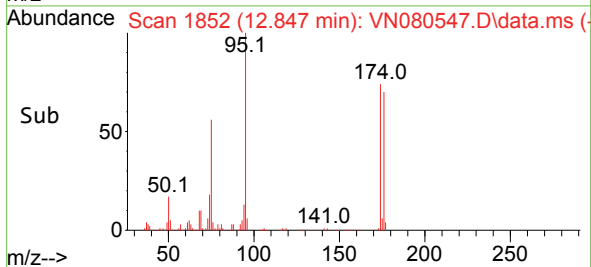
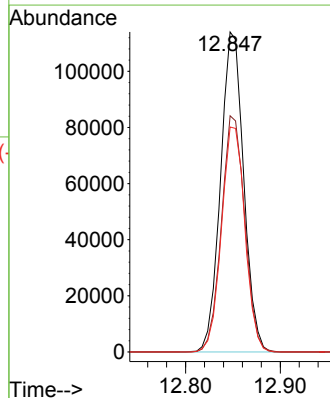
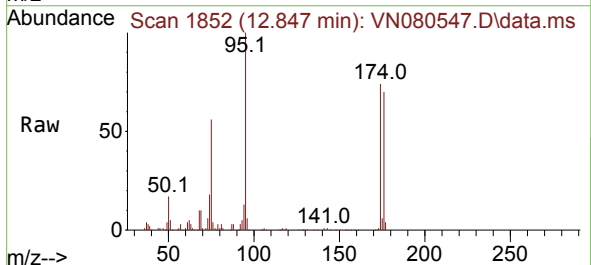
Instrument :
MSVOA_N
ClientSampleId :

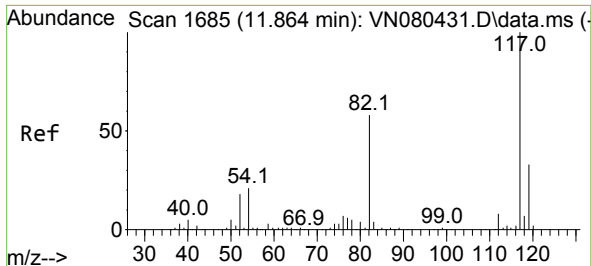
Tgt Ion: 43 Resp: 4930
Ion Ratio Lower Upper
43 100
58 8.3 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 61.174 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion: 95 Resp: 193296
Ion Ratio Lower Upper
95 100
174 74.6 0.0 143.8
176 71.3 0.0 135.8

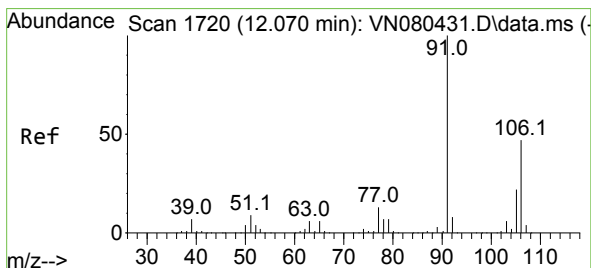
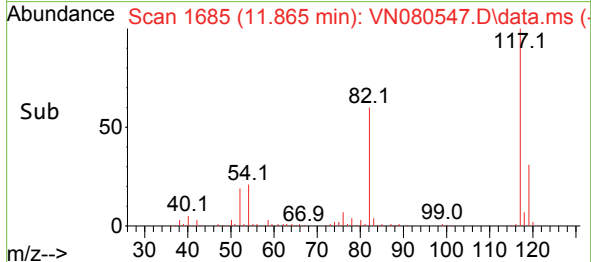
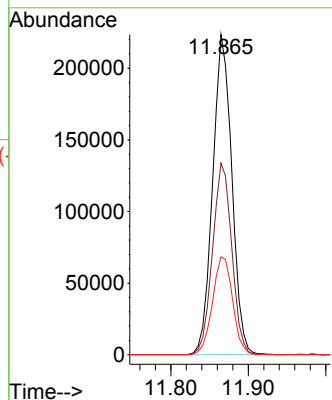
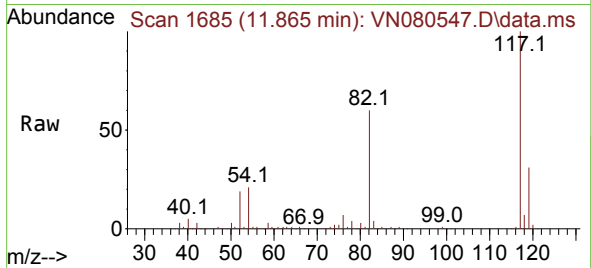




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

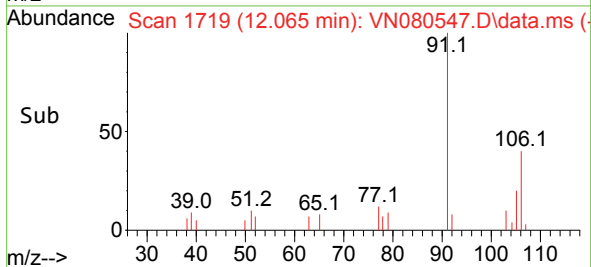
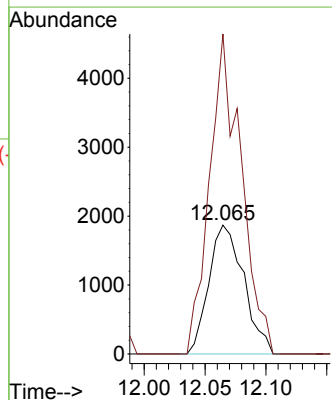
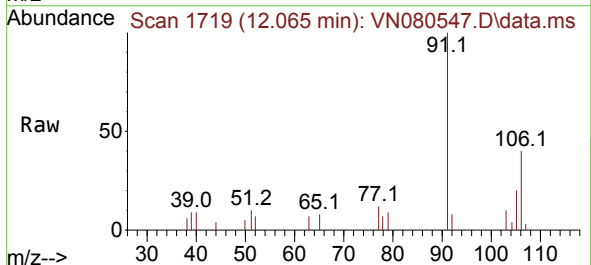
Instrument :
MSVOA_N
ClientSampleId :

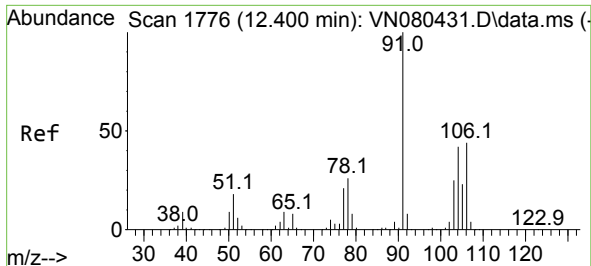
Tgt Ion:117 Resp: 384025
Ion Ratio Lower Upper
117 100
82 59.9 44.0 66.0
119 30.6 25.6 38.4



#68
m/p-Xylenes
Concen: 0.642 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

Tgt Ion:106 Resp: 3724
Ion Ratio Lower Upper
106 100
91 226.0 159.6 239.4

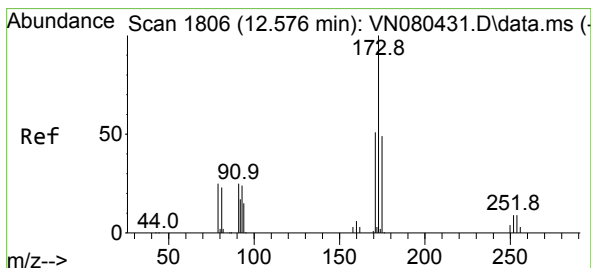
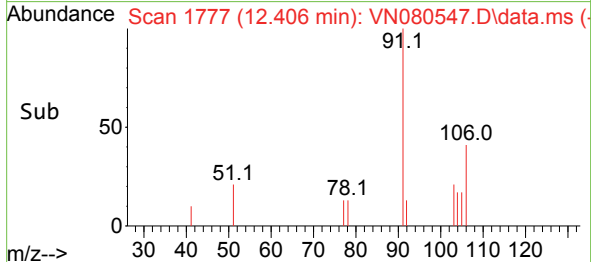
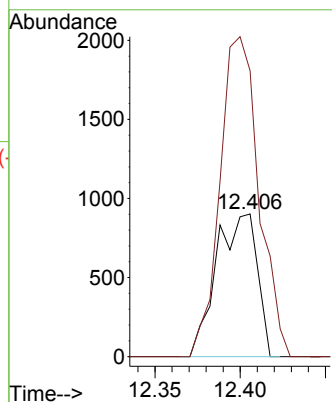
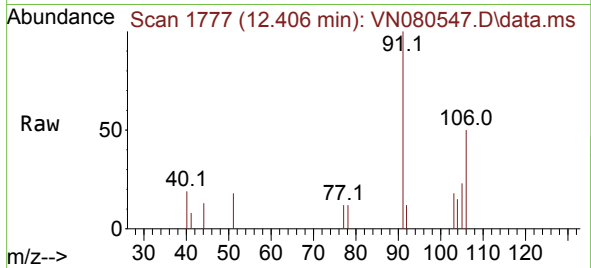




#69
o-Xylene
Concen: 0.265 ug/l
RT: 12.406 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

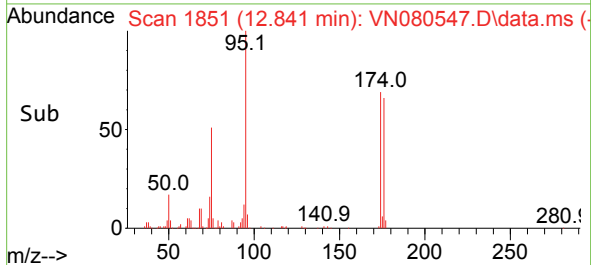
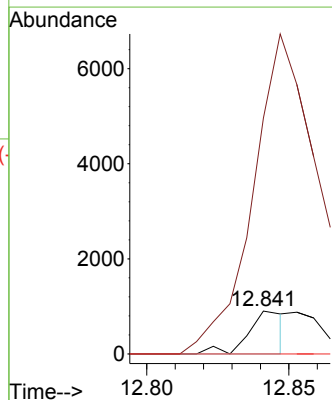
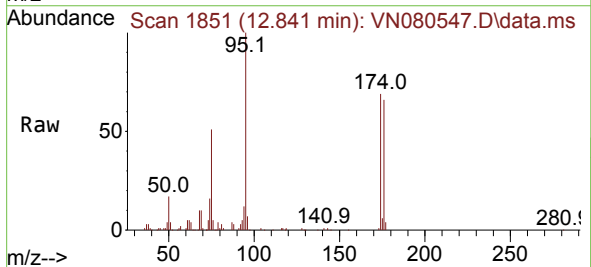
Instrument :
MSVOA_N
ClientSampleId :

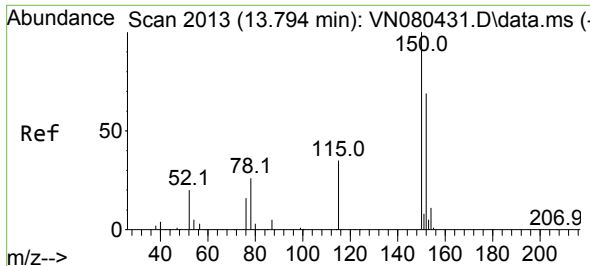
Tgt Ion:106 Resp: 1502
Ion Ratio Lower Upper
106 100
91 213.9 105.2 315.5



#71
Bromoform
Concen: 0.329 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

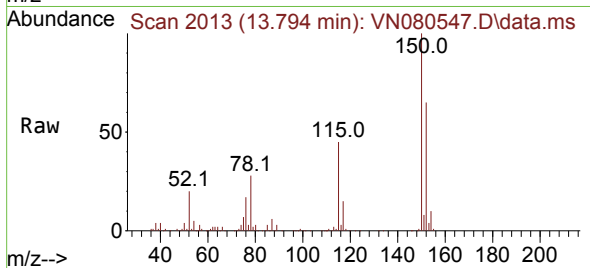
Tgt Ion:173 Resp: 804
Ion Ratio Lower Upper
173 100
175 956.3 24.3 73.0#
254 0.0 0.0 0.0



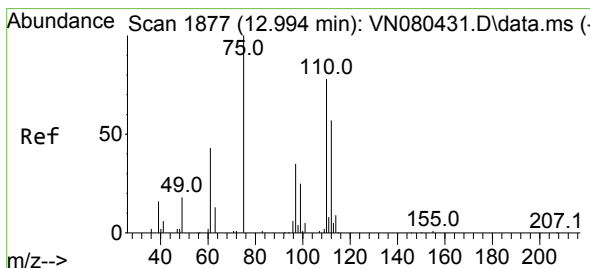
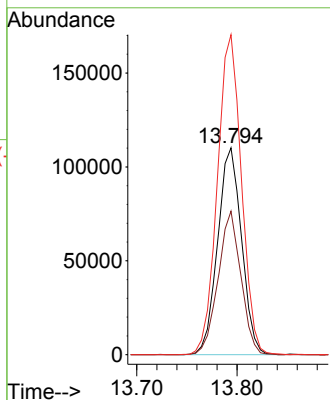
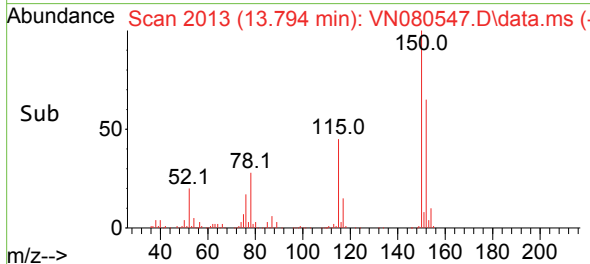


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN080547.D
 Acq: 20 Dec 2023 15:20

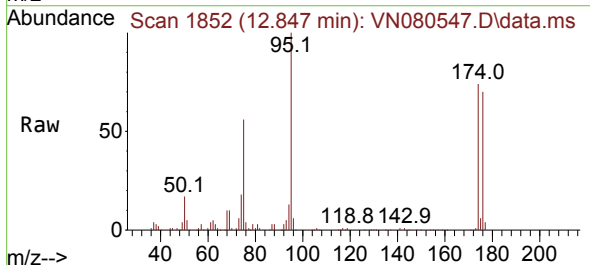
Instrument :
 MSVOA_N
 ClientSampleId :



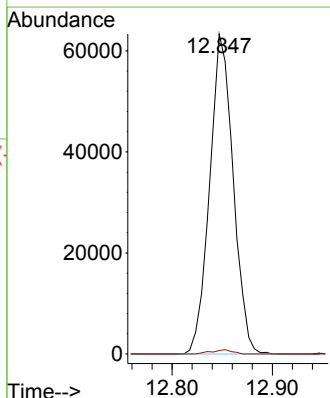
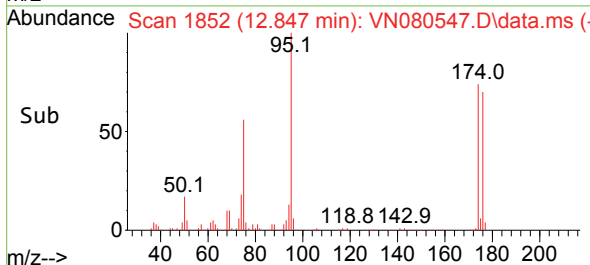
Tgt Ion:152 Resp: 182158
 Ion Ratio Lower Upper
 152 100
 115 66.1 32.3 96.8
 150 155.5 0.0 355.8

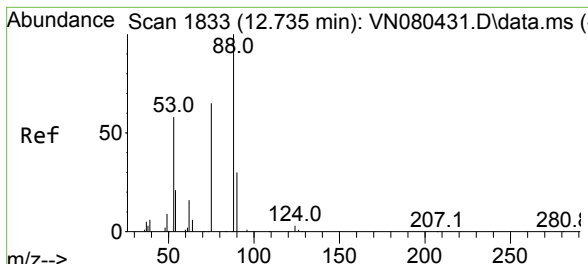


#76
 1,2,3-Trichloropropane
 Concen: 28.331 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN080547.D
 Acq: 20 Dec 2023 15:20



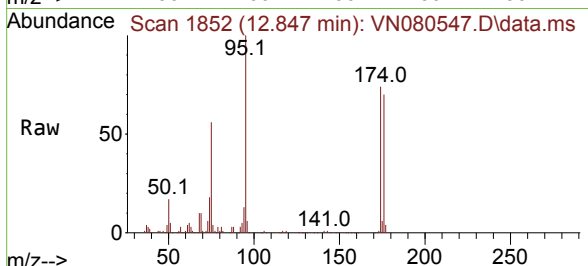
Tgt Ion: 75 Resp: 102953
 Ion Ratio Lower Upper
 75 100
 77 1.2 84.5 253.5#



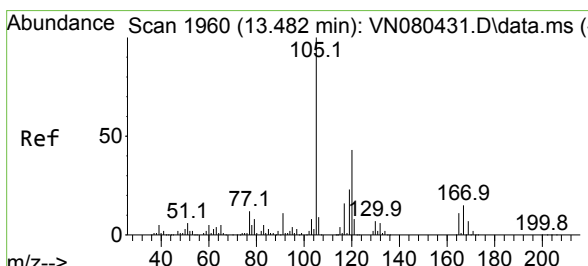
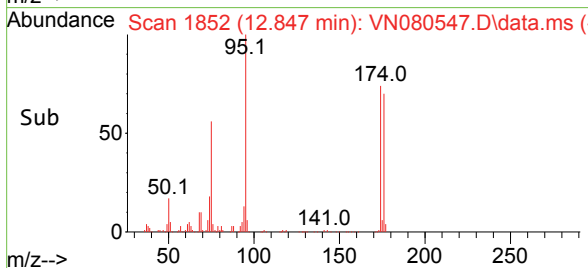
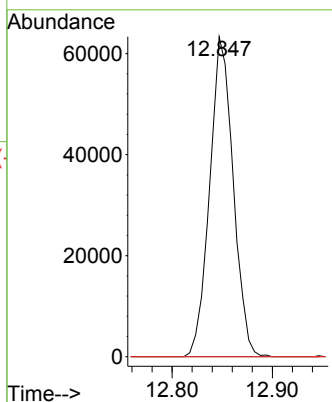


#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.384 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN080547.D
 Acq: 20 Dec 2023 15:20

Instrument :
 MSVOA_N
 ClientSampleId :

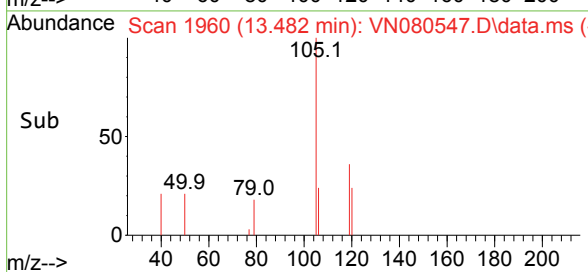
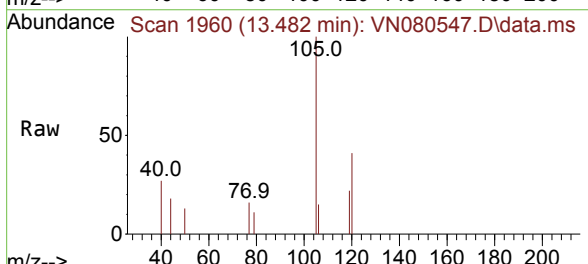
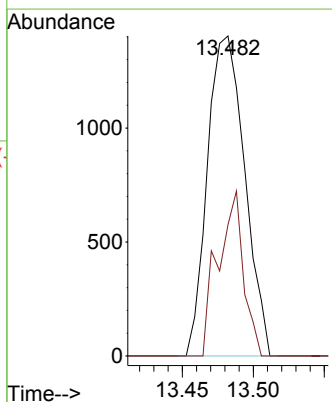


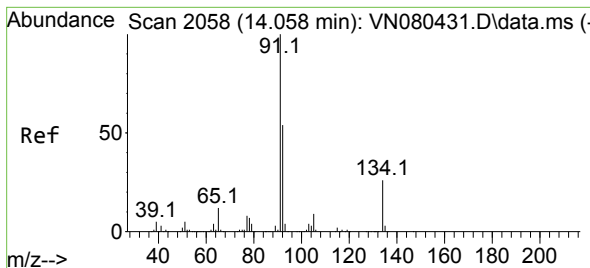
Tgt Ion: 75 Resp: 102953
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.204 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.000 min
 Lab File: VN080547.D
 Acq: 20 Dec 2023 15:20

Tgt Ion: 105 Resp: 2563
 Ion Ratio Lower Upper
 105 100
 120 35.2 22.0 66.0





#89

n-Butylbenzene

Concen: 0.214 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VN080547.D

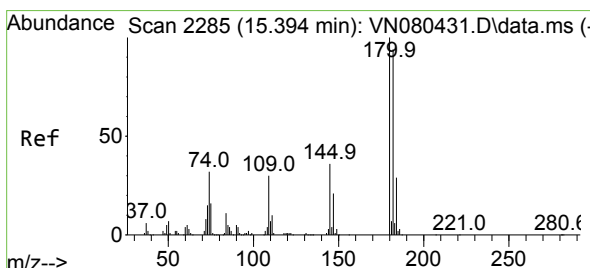
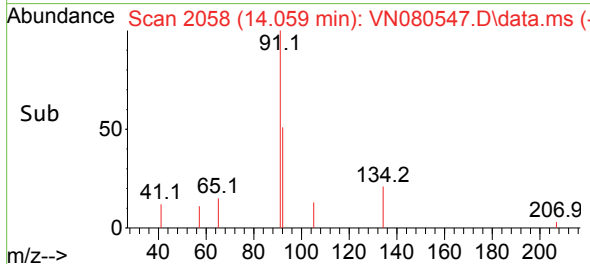
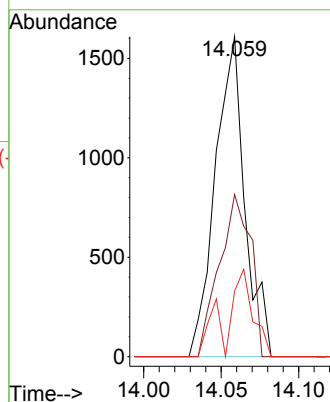
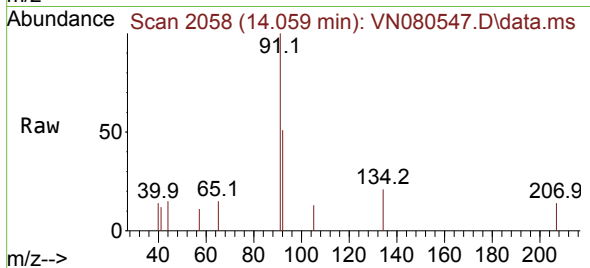
Acq: 20 Dec 2023 15:20

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp:	2133
Ion	Ratio	Lower Upper
91	100	
92	53.9	26.4 79.0
134	18.2	12.6 37.6



#93

1,2,4-Trichlorobenzene

Concen: 0.347 ug/l

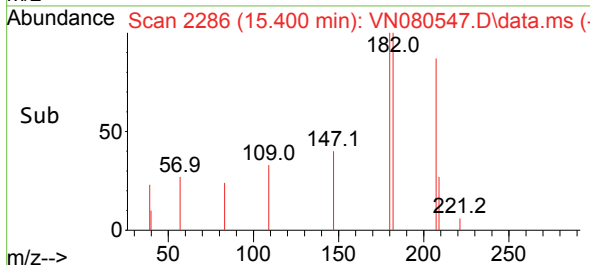
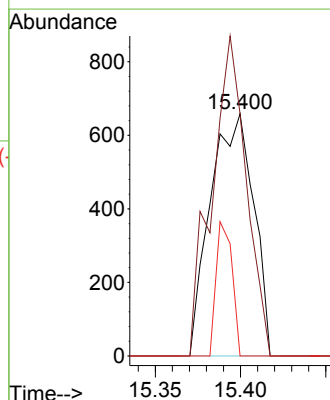
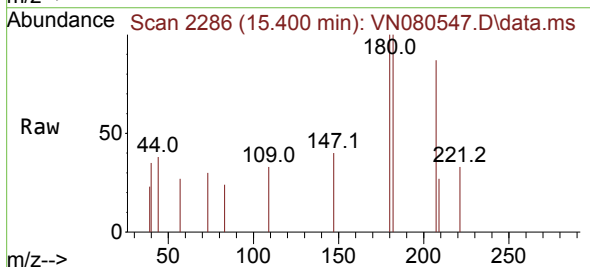
RT: 15.400 min Scan# 2286

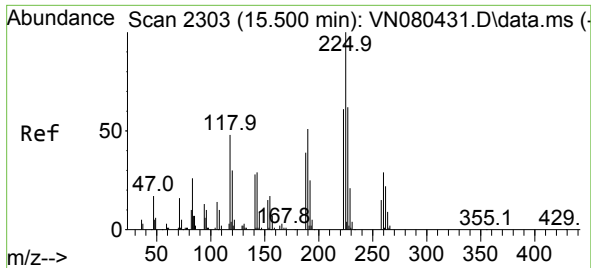
Delta R.T. 0.006 min

Lab File: VN080547.D

Acq: 20 Dec 2023 15:20

Tgt Ion: 180	Resp:	1159
Ion	Ratio	Lower Upper
180	100	
182	105.4	46.1 138.2
145	20.4	16.6 49.8

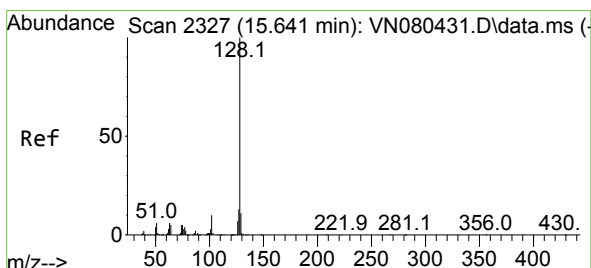
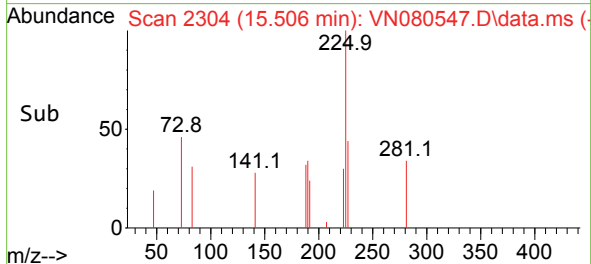
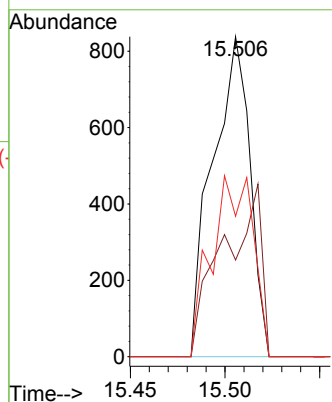
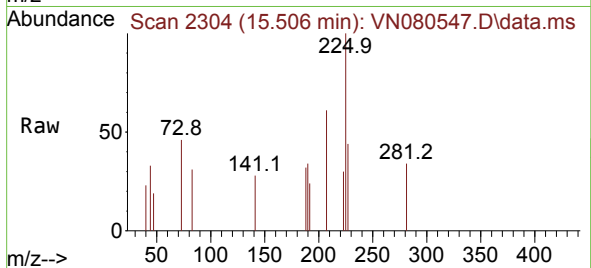




#94
Hexachlorobutadiene
Concen: 0.603 ug/l
RT: 15.506 min Scan# 2114
Delta R.T. 0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

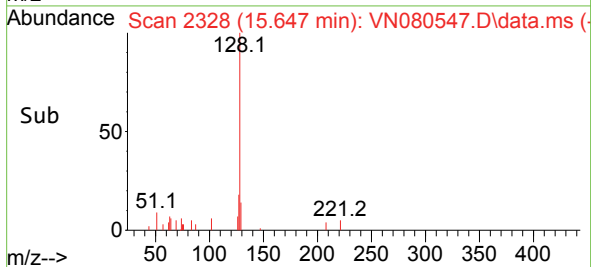
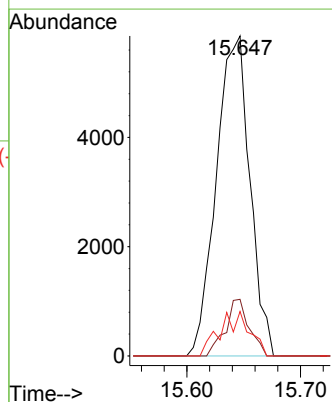
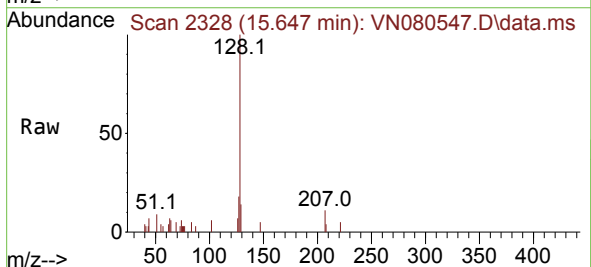
Instrument :
MSVOA_N
ClientSampleId :

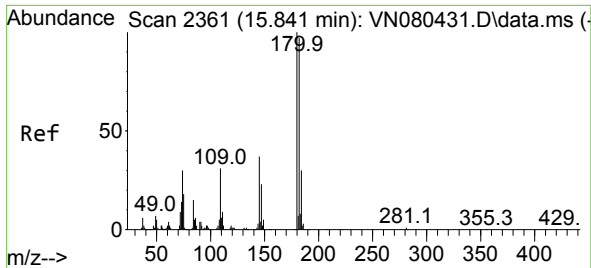
Tgt Ion:225 Resp: 1148
Ion Ratio Lower Upper
225 100
223 55.3 31.3 93.8
227 62.6 31.9 95.9



#95
Naphthalene
Concen: 1.184 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN080547.D
Acq: 20 Dec 2023 15:20

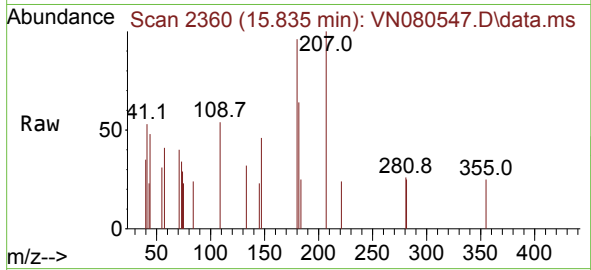
Tgt Ion:128 Resp: 12019
Ion Ratio Lower Upper
128 100
127 12.5 10.0 15.0
129 12.3 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.331 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN080547.D
 Acq: 20 Dec 2023 15:20

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1067
Ion	Ratio	Lower	Upper
180	100		
182	121.0	46.2	138.6
145	45.3	17.5	52.6

