

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111823\
 Data File : VN080184.D
 Acq On : 18 Nov 2023 14:31
 Operator : JC\MD
 Sample : 05470-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 20 01:25:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

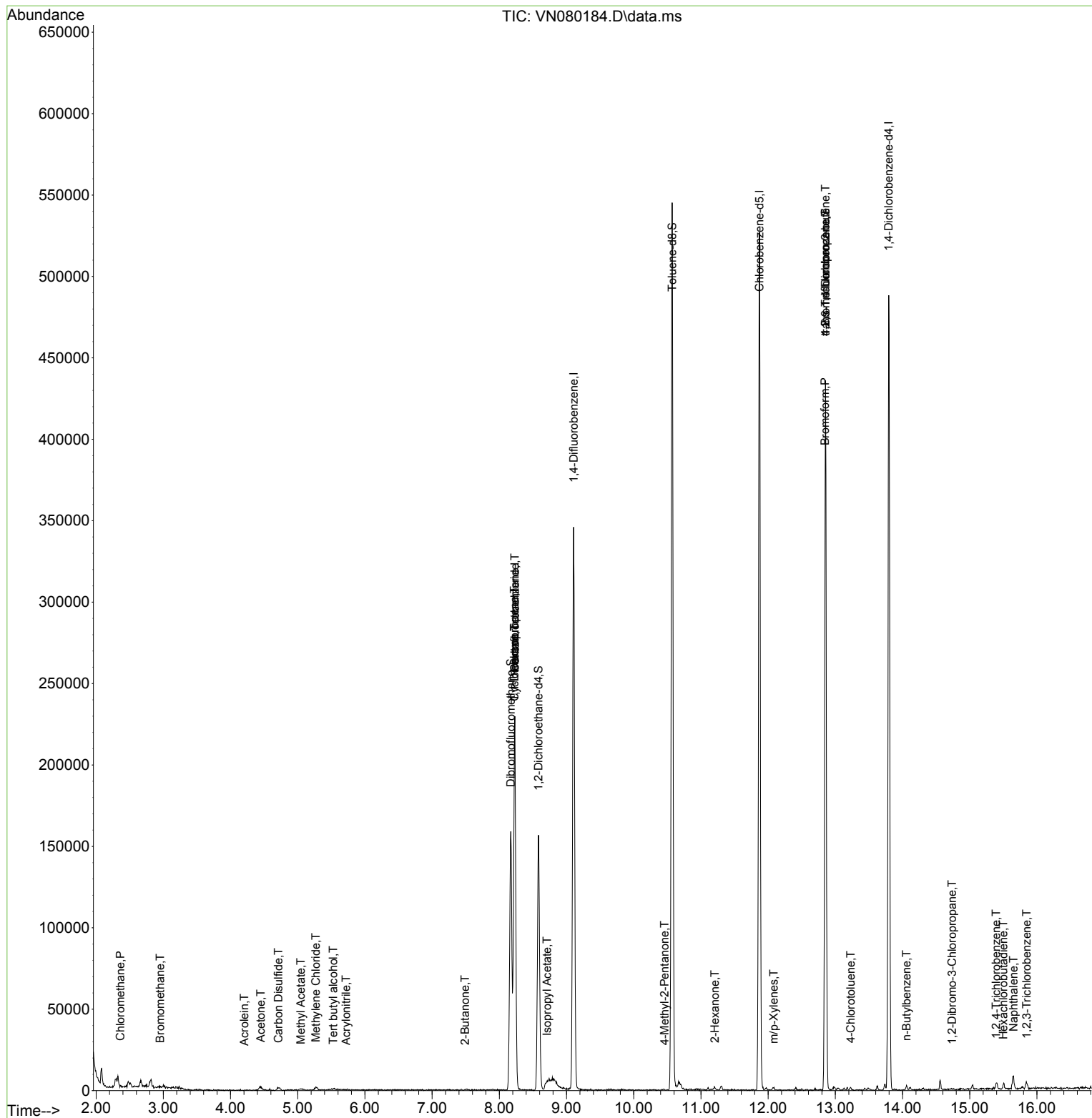
Internal Standards						
1) Pentafluorobenzene	8.230	168	153161	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	283524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	299626	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	130370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	140747	55.655	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.300%			
35) Dibromofluoromethane	8.171	113	108518	51.872	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.740%			
50) Toluene-d8	10.571	98	376670	49.947	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.900%			
62) 4-Bromofluorobenzene	12.853	95	145960	51.241	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.480%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	386	0.225	ug/l #	42
5) Bromomethane	2.954	94	296	0.240	ug/l #	61
6) Chloroethane	3.124	64	731	Below Cal	#	43
11) Tert butyl alcohol	5.530	59	955	3.434	ug/l #	72
13) Acrolein	4.206	56	57	0.232	ug/l #	16
15) Acrylonitrile	5.718	53	157	0.210	ug/l #	47
16) Acetone	4.448	43	4497	5.294	ug/l #	88
17) Carbon Disulfide	4.712	76	3148	0.651	ug/l #	75
18) Methyl Acetate	5.048	43	1746	0.640	ug/l #	50
20) Methylene Chloride	5.271	84	1398	0.786	ug/l #	69
25) 2-Butanone	7.489	43	270	0.268	ug/l #	37
31) Cyclohexane	8.224	56	3787	1.377	ug/l #	28
36) 1,1-Dichloropropene	8.224	75	13654	4.508	ug/l #	49
38) Carbon Tetrachloride	8.230	117	18006	4.685	ug/l #	17
43) Isopropyl Acetate	8.712	43	5065	1.239	ug/l #	49
51) 4-Methyl-2-Pentanone	10.459	43	485	0.229	ug/l #	31
59) 2-Hexanone	11.206	43	1261	0.741	ug/l	65
68) m/p-Xylenes	12.082	106	932	0.212	ug/l	98
71) Bromoform	12.847	173	624	0.319	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	82932	25.963	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	82932	87.717	ug/l #	15
82) 4-Chlorotoluene	13.229	91	1572	0.209	ug/l	93
89) n-Butylbenzene	14.059	91	1771	0.265	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.735	75	239	0.339	ug/l #	23
93) 1,2,4-Trichlorobenzene	15.394	180	1877	0.733	ug/l	85
94) Hexachlorobutadiene	15.500	225	860	0.583	ug/l	97
95) Naphthalene	15.653	128	8174	1.101	ug/l	99
96) 1,2,3-Trichlorobenzene	15.847	180	1801	0.750	ug/l	89

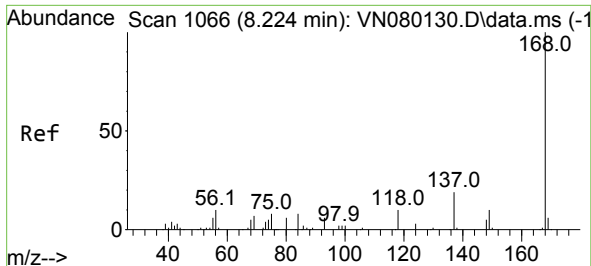
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111823\
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 17 01:19:32 2023
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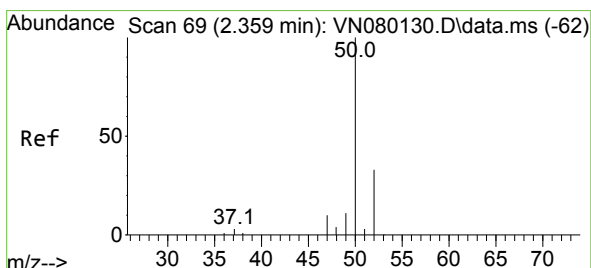
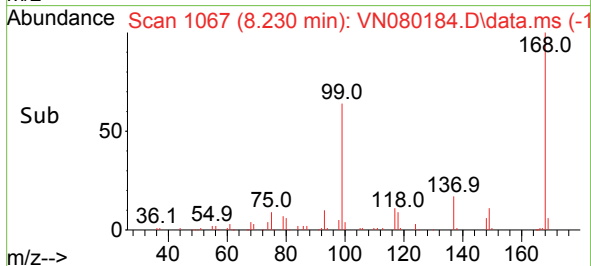
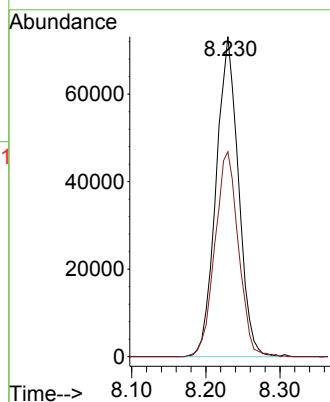
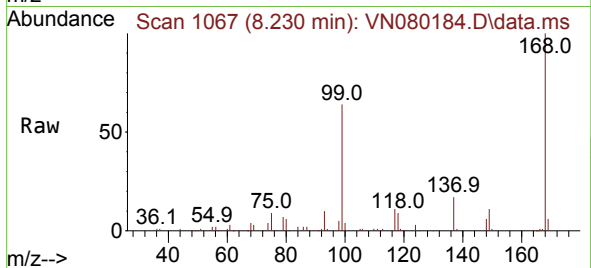




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

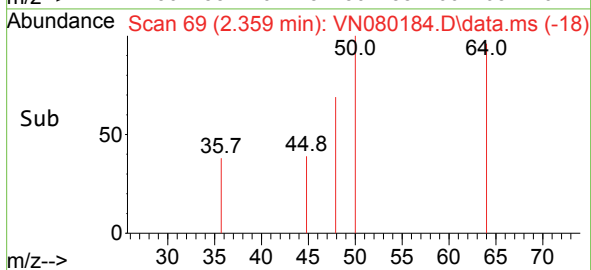
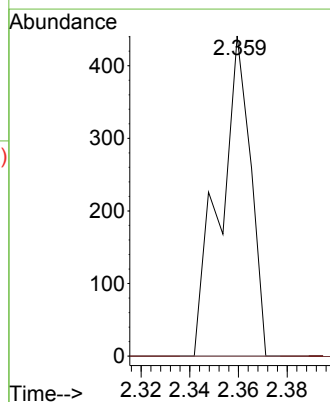
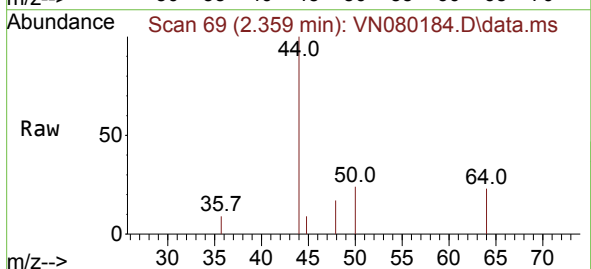
Instrument :
MSVOA_N
ClientSampleId :

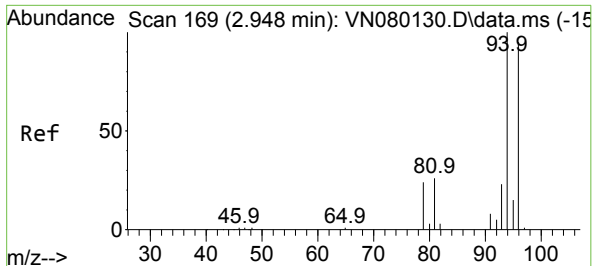
Tgt Ion:168 Resp: 153161
Ion Ratio Lower Upper
168 100
99 64.0 53.0 79.6



#3
Chloromethane
Concen: 0.225 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion: 50 Resp: 386
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

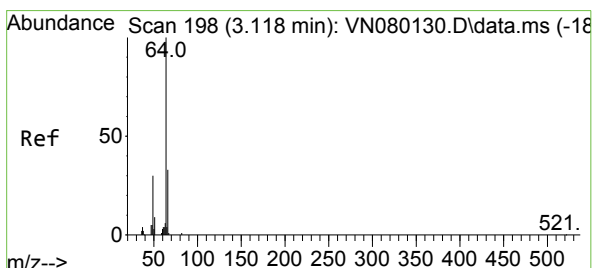
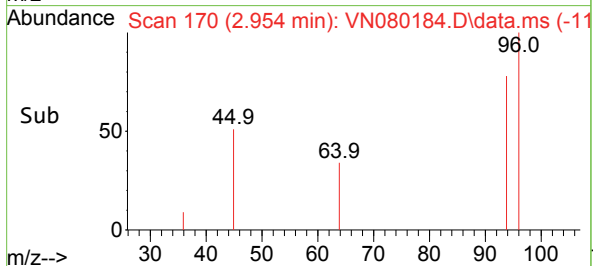
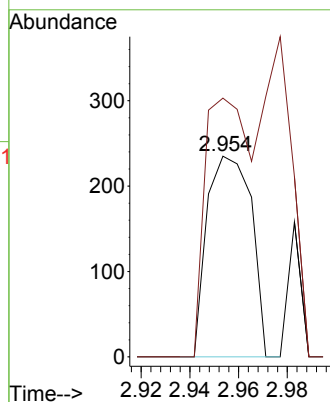
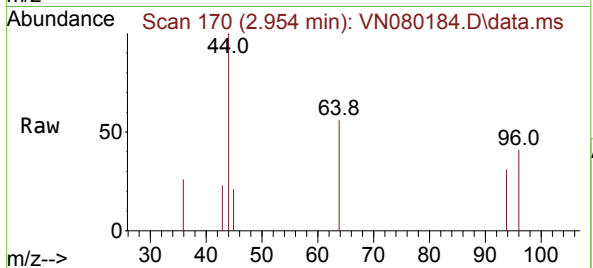




#5
Bromomethane
Concen: 0.240 ug/l
RT: 2.954 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

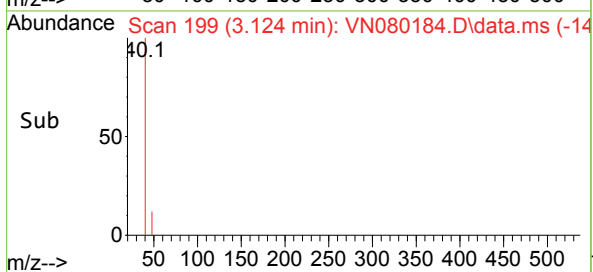
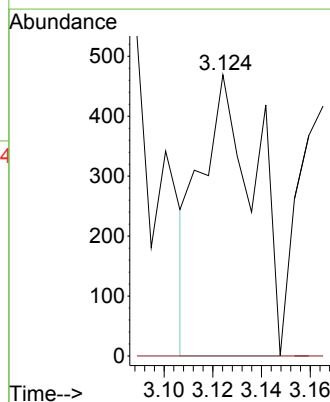
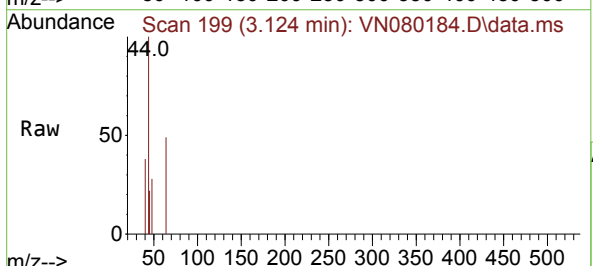
Instrument :
MSVOA_N
ClientSampleId :

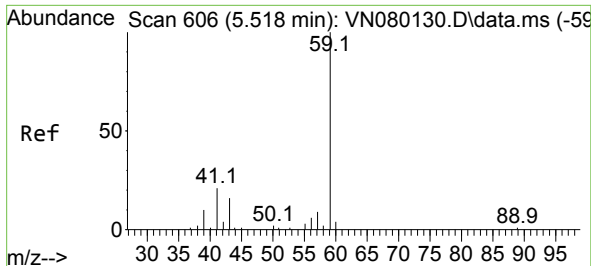
Tgt Ion: 94 Resp: 296
Ion Ratio Lower Upper
94 100
96 128.9 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

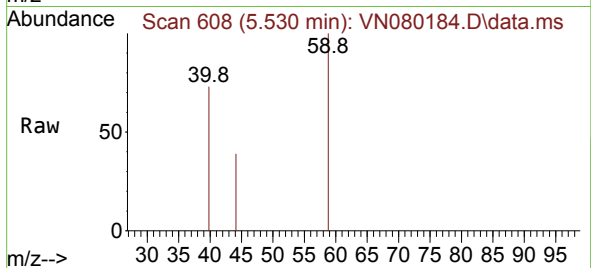
Tgt Ion: 64 Resp: 731
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



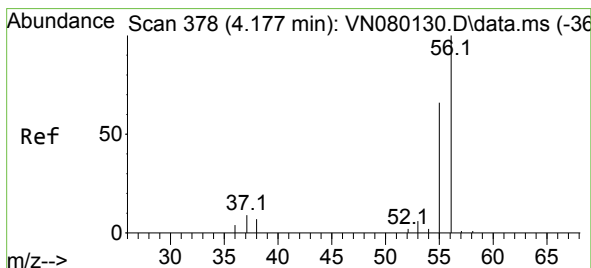
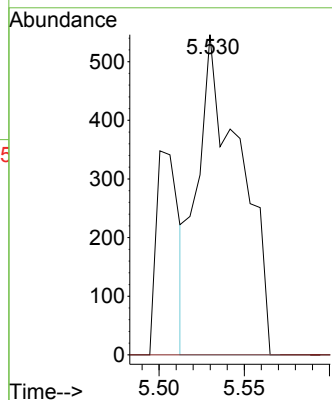
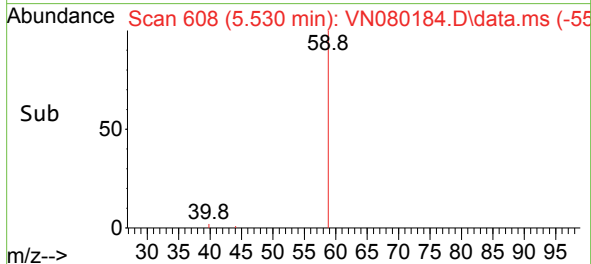


#11
Tert butyl alcohol
Concen: 3.434 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Instrument :
MSVOA_N
ClientSampleId :

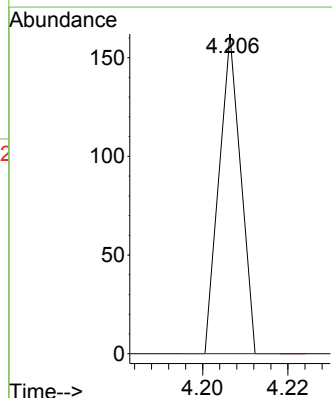
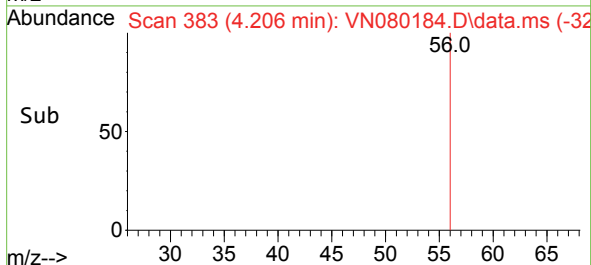
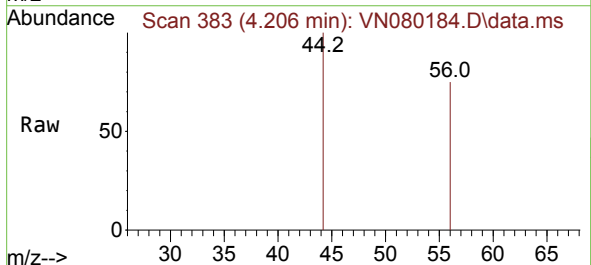


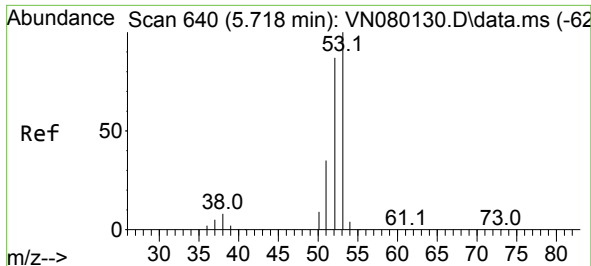
Tgt Ion: 59 Resp: 955
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.232 ug/l
RT: 4.206 min Scan# 383
Delta R.T. 0.029 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

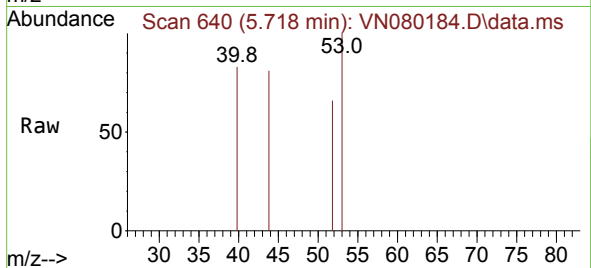
Tgt Ion: 56 Resp: 57
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



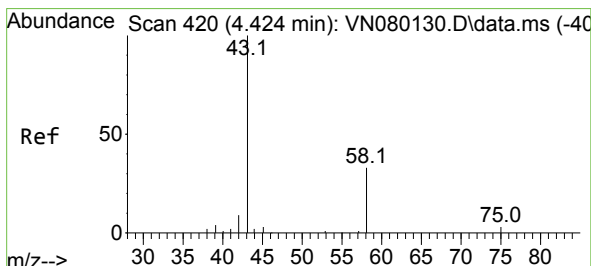
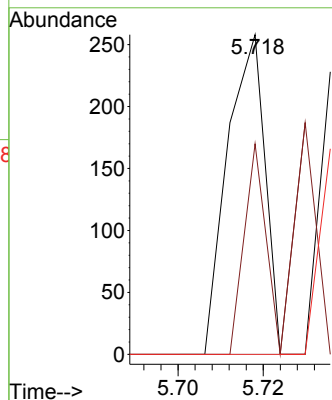
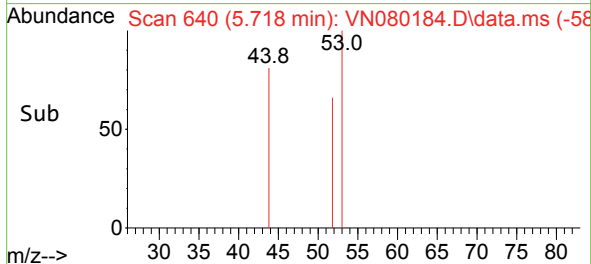


#15
Acrylonitrile
Concen: 0.210 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Instrument :
MSVOA_N
ClientSampleId :

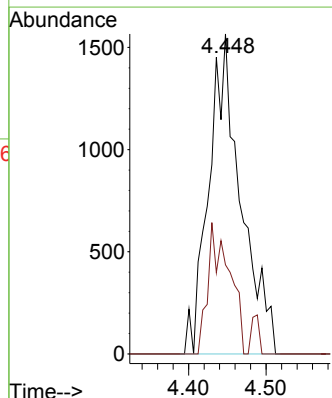
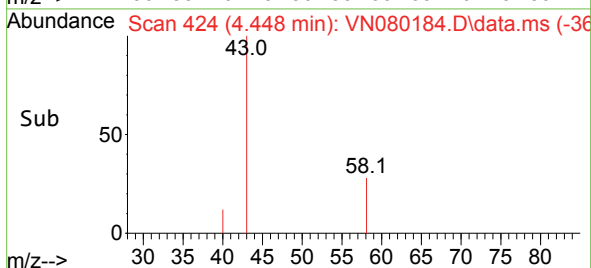
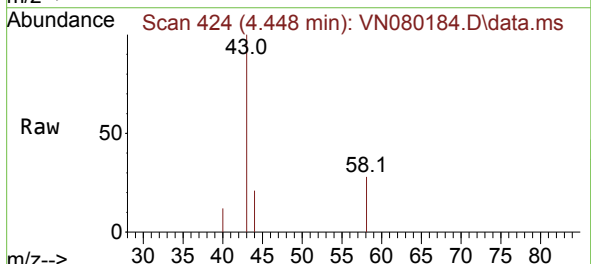


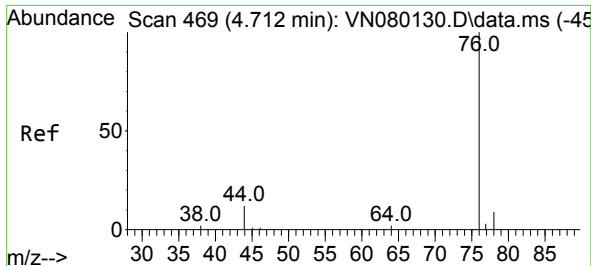
Tgt Ion: 53 Resp: 157
Ion Ratio Lower Upper
53 100
52 38.2 65.3 97.9#
51 0.0 28.9 43.3#



#16
Acetone
Concen: 5.294 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.024 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

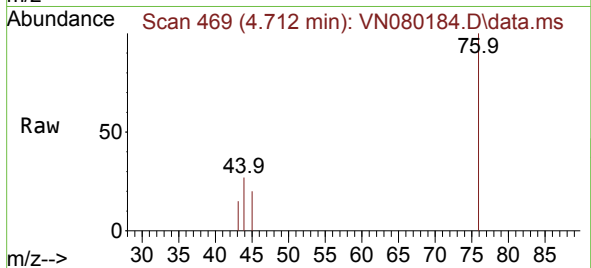
Tgt Ion: 43 Resp: 4497
Ion Ratio Lower Upper
43 100
58 27.8 28.0 42.0#



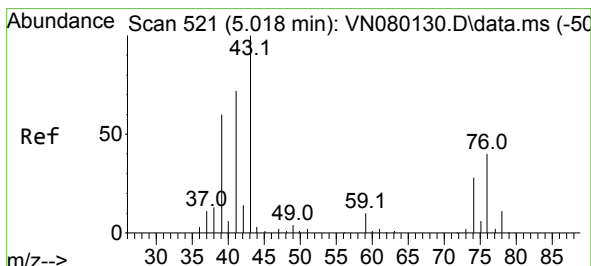
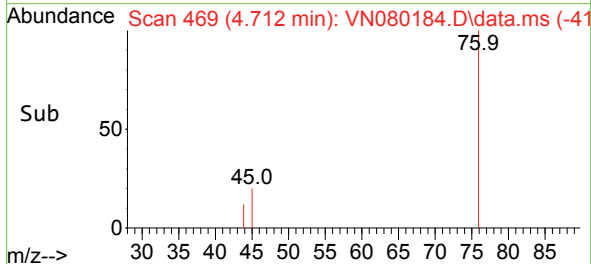
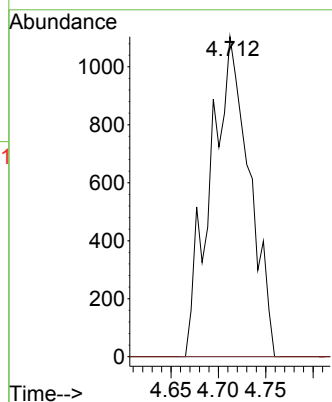


#17
Carbon Disulfide
Concen: 0.651 ug/l
RT: 4.712 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Instrument :
MSVOA_N
ClientSampleId :

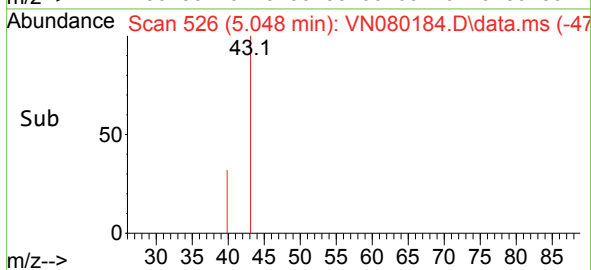
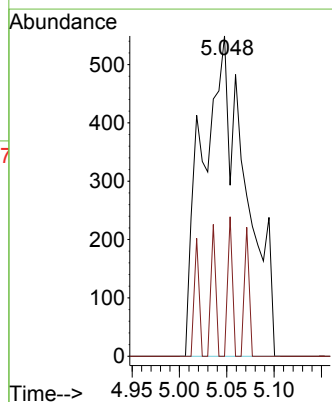
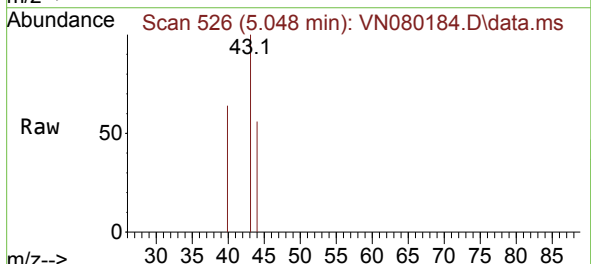


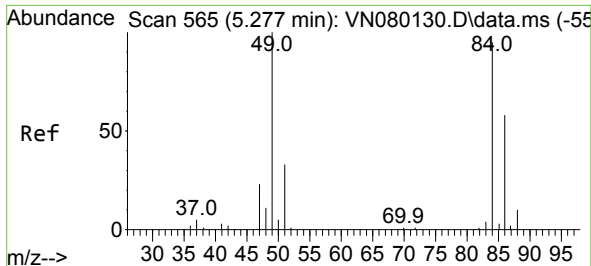
Tgt Ion: 76 Resp: 3148
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.640 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.029 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

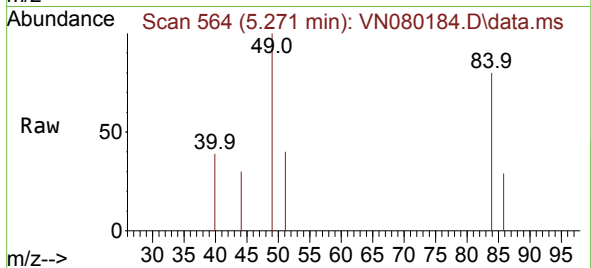
Tgt Ion: 43 Resp: 1746
Ion Ratio Lower Upper
43 100
74 4.8 26.2 39.4#



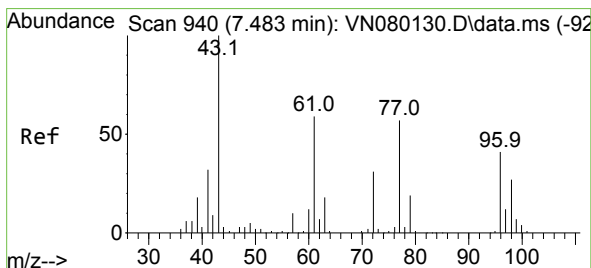
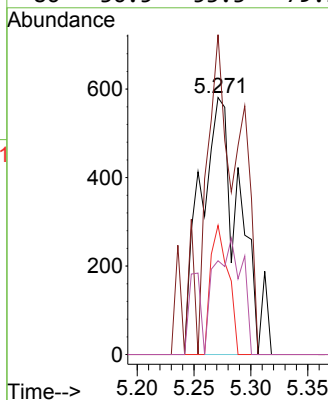


#20
Methylene Chloride
Concen: 0.786 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Instrument :
MSVOA_N
ClientSampleId :

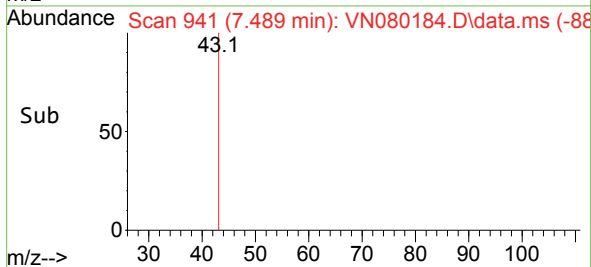
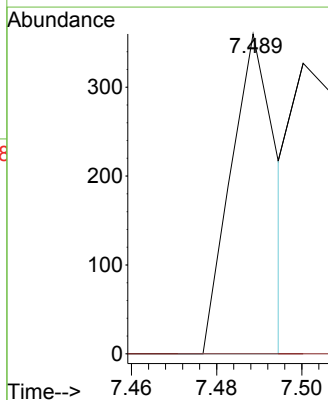
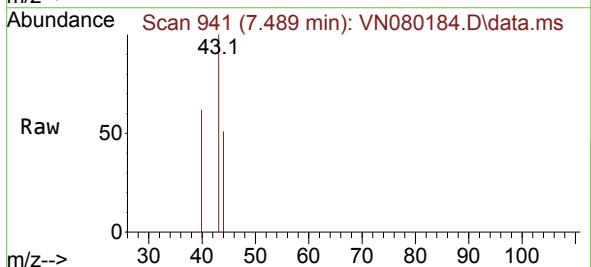


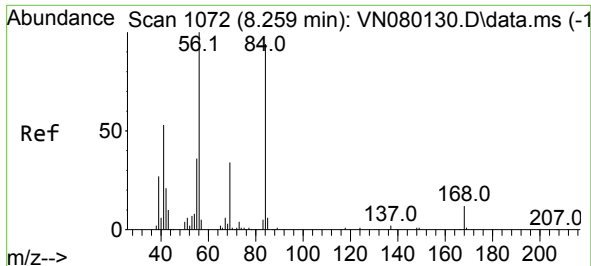
Tgt Ion:	84	Resp:	1398
Ion	Ratio	Lower	Upper
84	100		
49	124.4	79.7	119.5#
51	50.3	25.2	37.8#
86	36.5	53.3	79.9#



#25
2-Butanone
Concen: 0.268 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

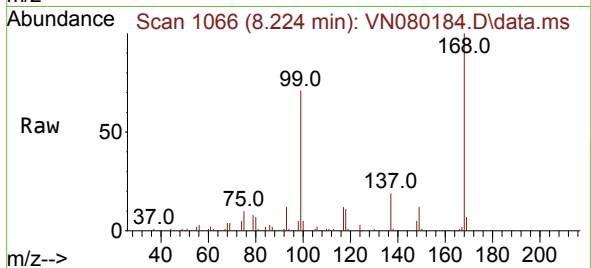
Tgt Ion:	43	Resp:	270
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#



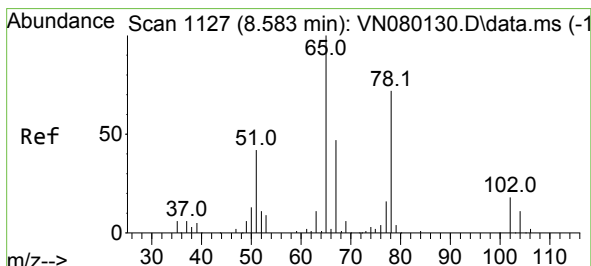
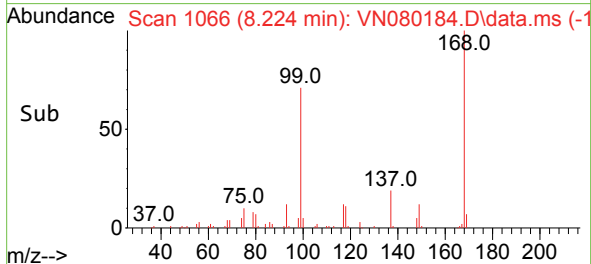
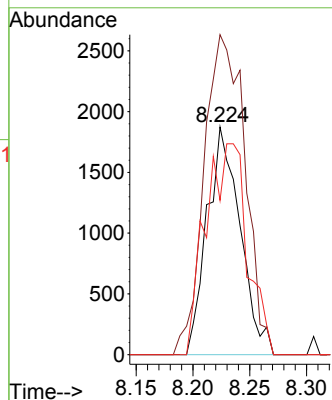


#31
Cyclohexane
Concen: 1.377 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Instrument :
MSVOA_N
ClientSampleId :

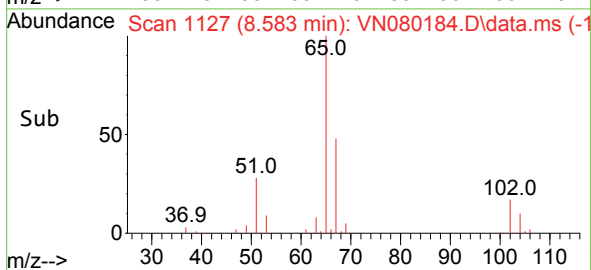
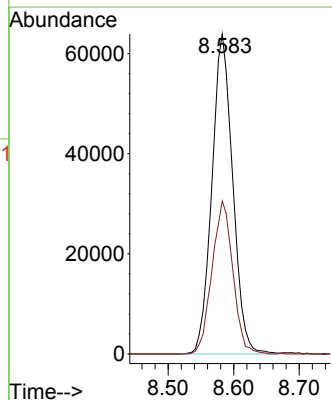
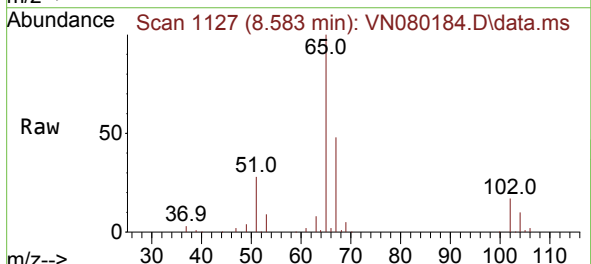


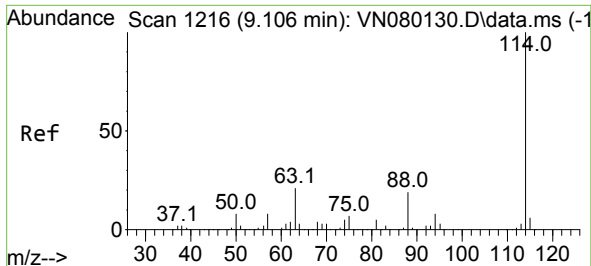
Tgt Ion: 56 Resp: 3787
Ion Ratio Lower Upper
56 100
69 140.6 26.8 40.2#
84 67.8 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 55.655 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion: 65 Resp: 140747
Ion Ratio Lower Upper
65 100
67 47.8 0.0 106.6

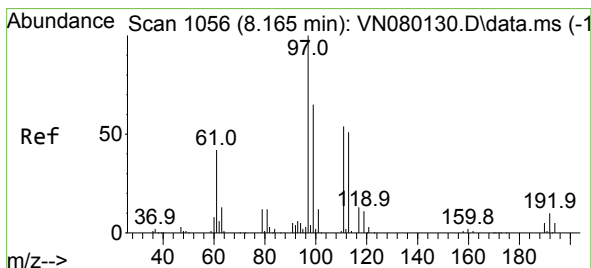
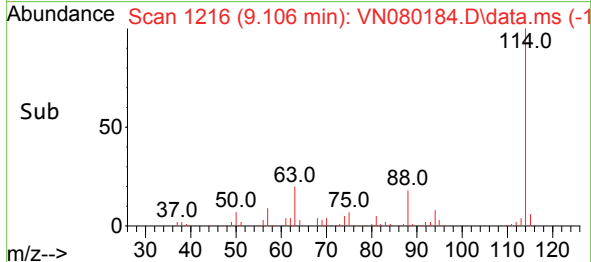
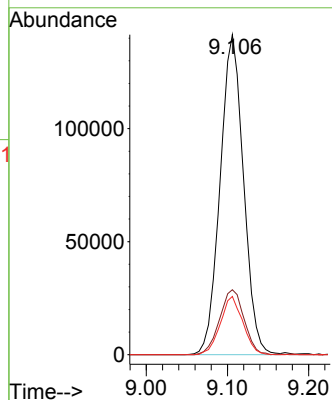
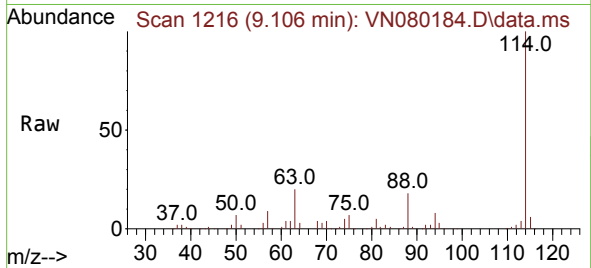




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

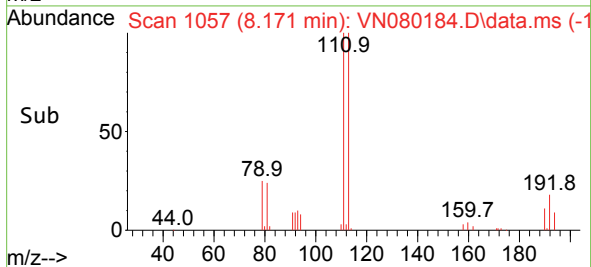
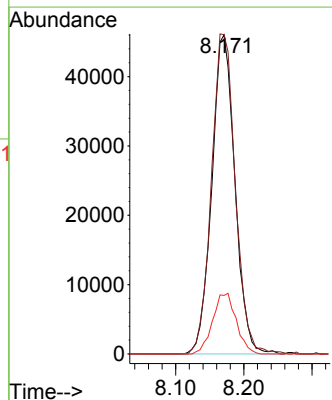
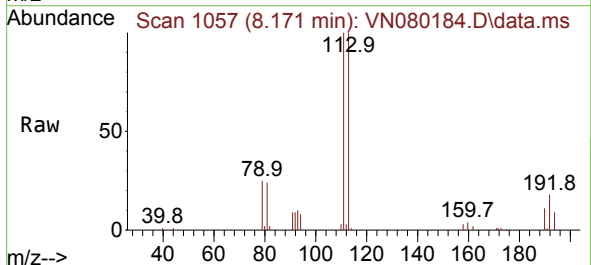
Instrument :
MSVOA_N
ClientSampleId :

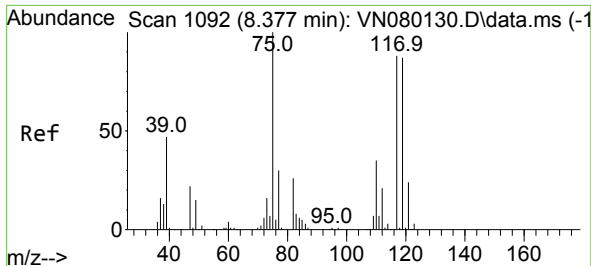
Tgt Ion:114 Resp: 283524
Ion Ratio Lower Upper
114 100
63 20.3 0.0 36.4
88 18.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.872 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion:113 Resp: 108518
Ion Ratio Lower Upper
113 100
111 103.4 82.6 123.8
192 19.4 12.7 19.1#





#36

1,1-Dichloropropene

Concen: 4.508 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

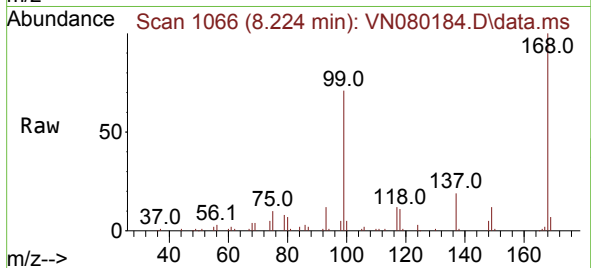
Lab File: VN080184.D

Acq: 18 Nov 2023 14:31

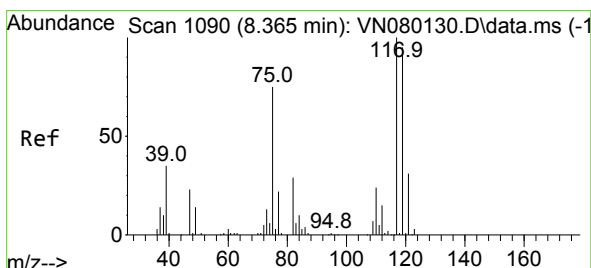
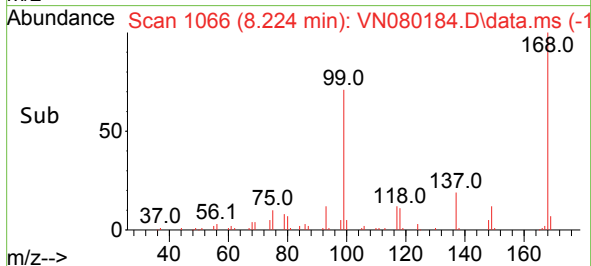
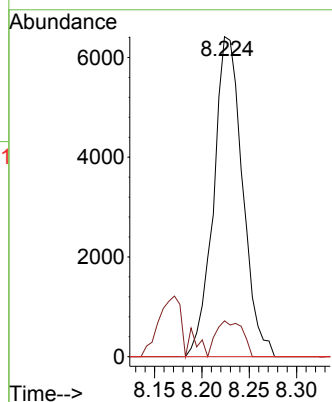
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 13654
Ion Ratio	Lower Upper
75	100
110	10.2 19.1 57.3#
77	0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.685 ug/l

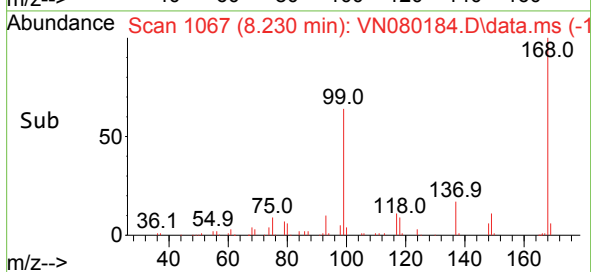
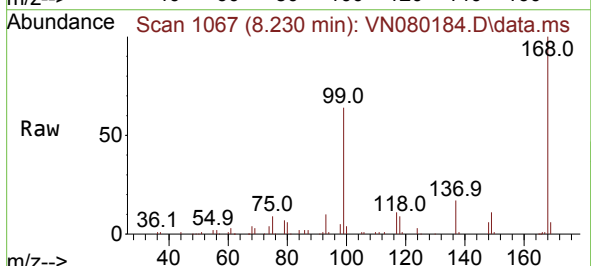
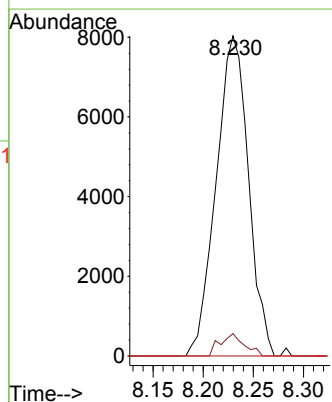
RT: 8.230 min Scan# 1067

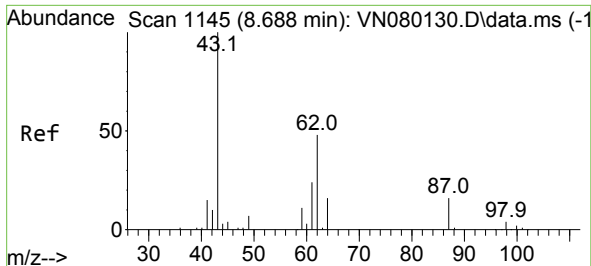
Delta R.T. -0.135 min

Lab File: VN080184.D

Acq: 18 Nov 2023 14:31

Tgt Ion: 117	Resp: 18006
Ion Ratio	Lower Upper
117	100
119	7.0 77.3 115.9#
121	0.0 23.3 34.9#

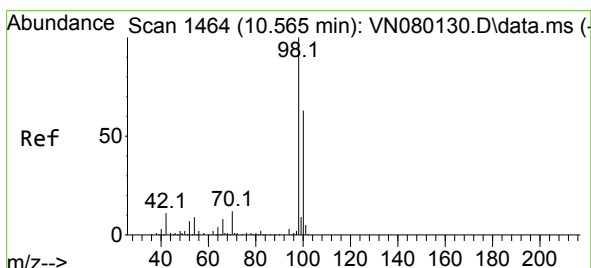
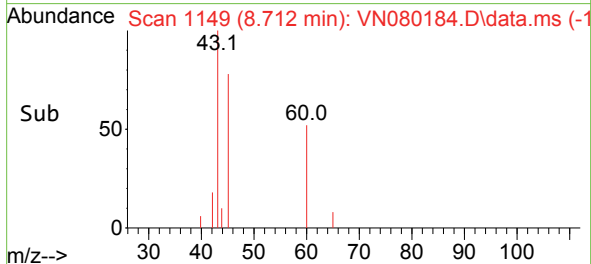
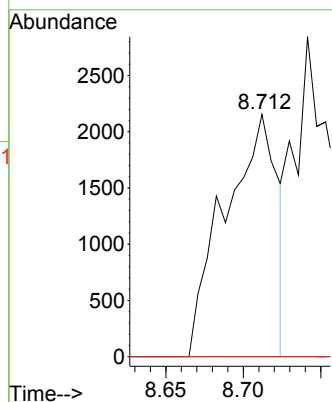
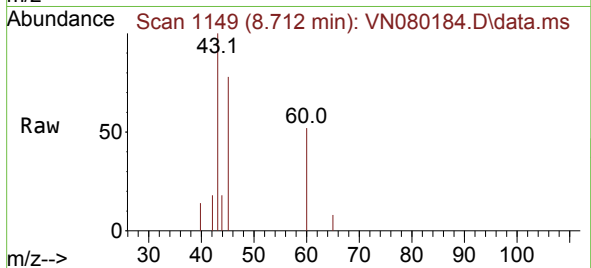




#43
Isopropyl Acetate
Concen: 1.239 ug/l
RT: 8.712 min Scan# 1149
Delta R.T. 0.024 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

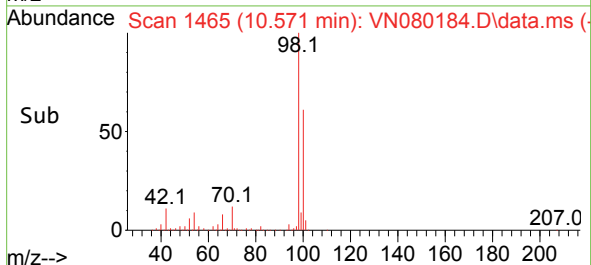
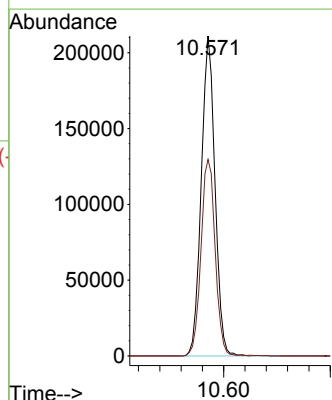
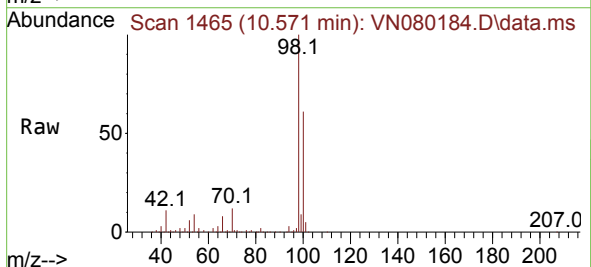
Instrument :
MSVOA_N
ClientSampleId :

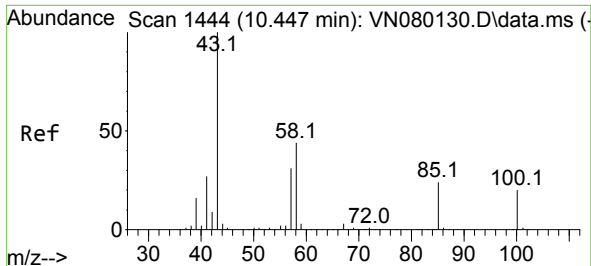
Tgt Ion: 43 Resp: 5065
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 49.947 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion: 98 Resp: 376670
Ion Ratio Lower Upper
98 100
100 63.5 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.229 ug/l

RT: 10.459 min Scan# 1446

Delta R.T. 0.012 min

Lab File: VN080184.D

Acq: 18 Nov 2023 14:31

Instrument :

MSVOA_N

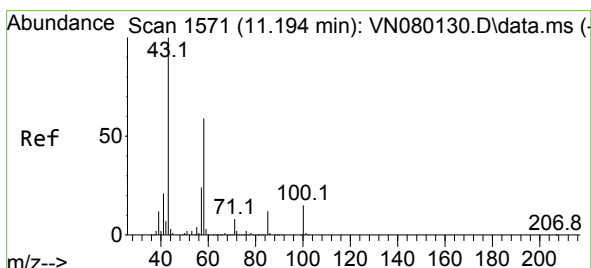
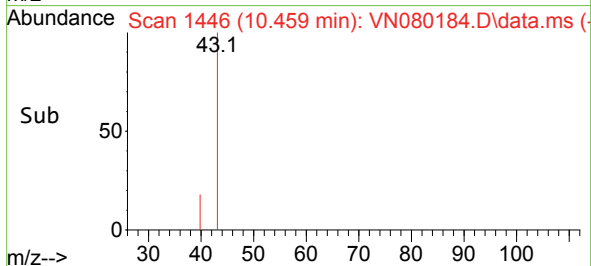
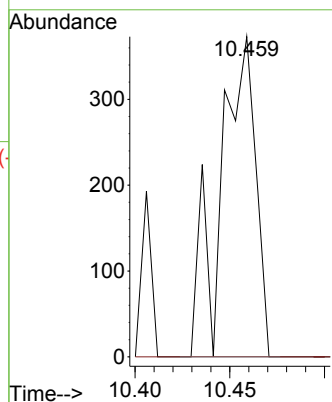
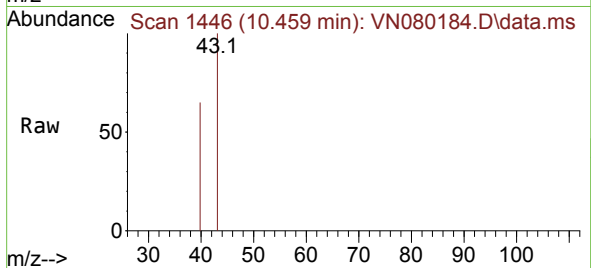
ClientSampleId :

Tgt Ion: 43 Resp: 485

Ion Ratio Lower Upper

43 100

58 0.0 36.6 54.8#



#59

2-Hexanone

Concen: 0.741 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN080184.D

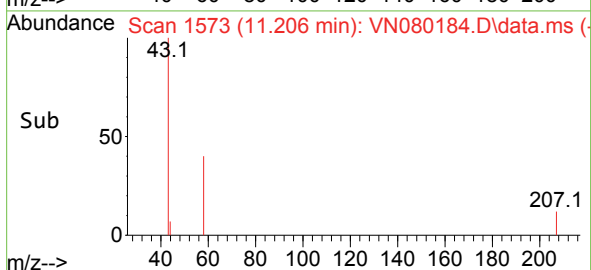
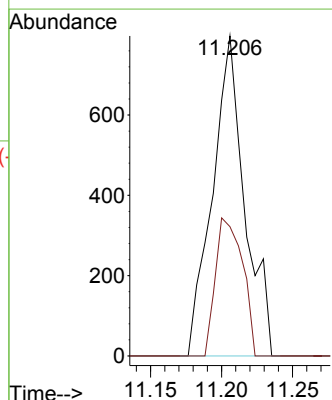
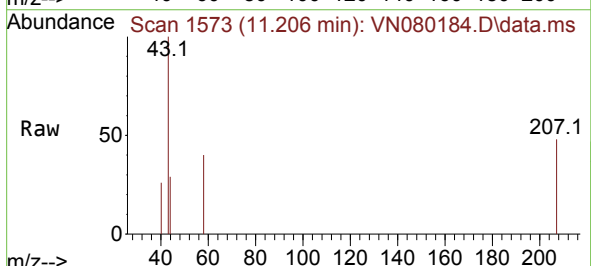
Acq: 18 Nov 2023 14:31

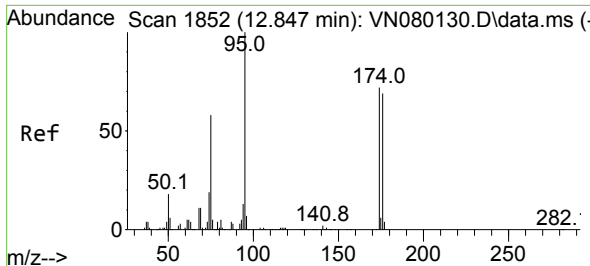
Tgt Ion: 43 Resp: 1261

Ion Ratio Lower Upper

43 100

58 36.0 31.7 95.1

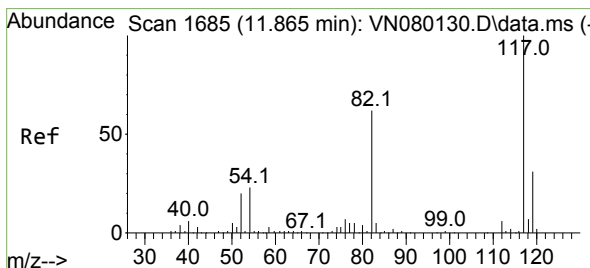
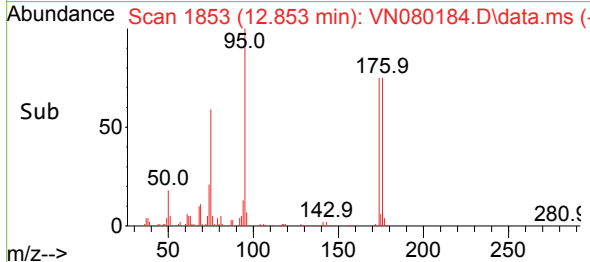
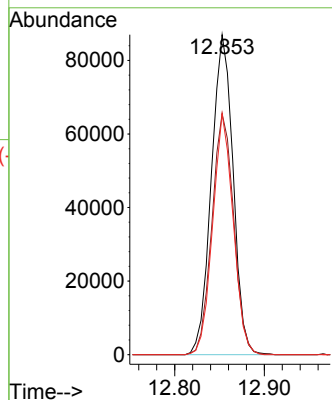
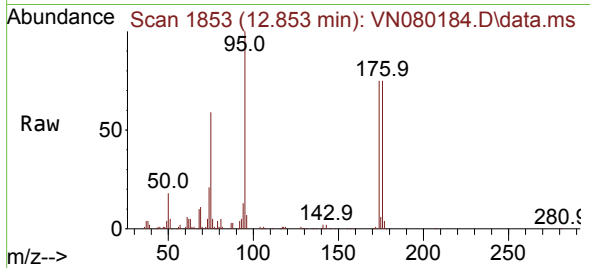




#62
4-Bromofluorobenzene
Concen: 51.241 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

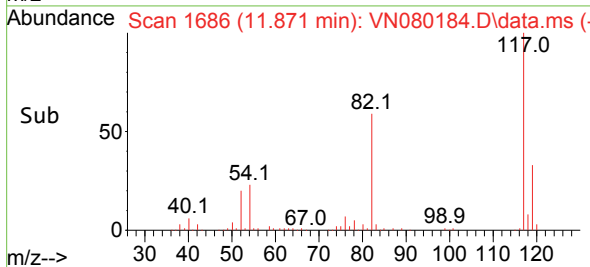
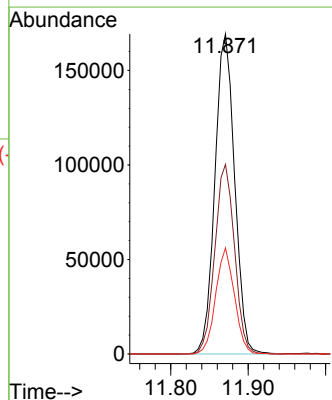
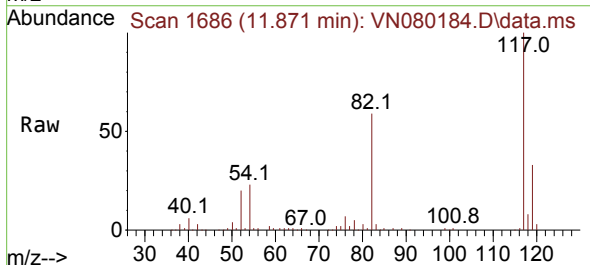
Instrument :
MSVOA_N
ClientSampleId :

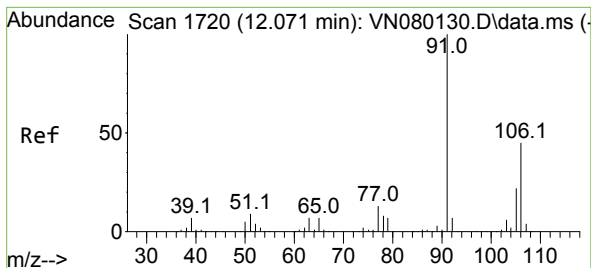
Tgt Ion: 95 Resp: 145960
Ion Ratio Lower Upper
95 100
174 75.6 0.0 143.8
176 71.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion: 117 Resp: 299626
Ion Ratio Lower Upper
117 100
82 59.3 44.0 66.0
119 33.1 25.6 38.4

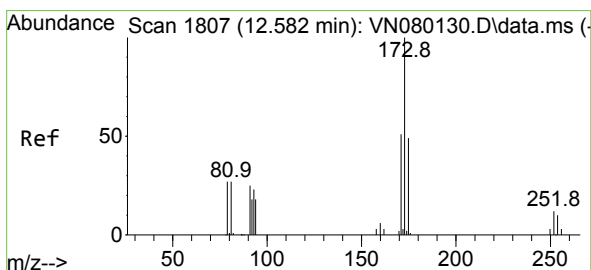
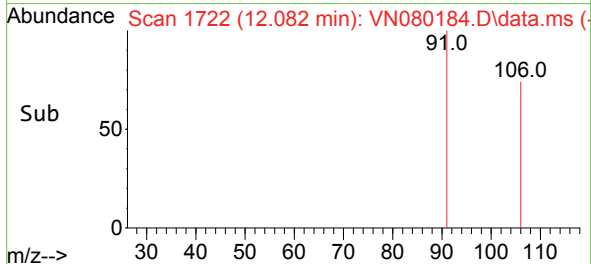
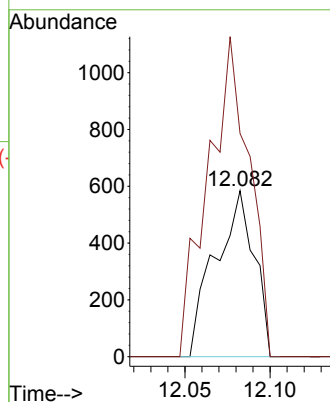
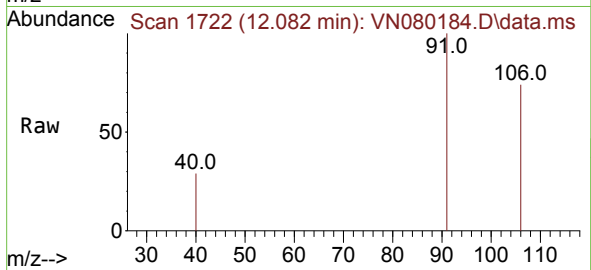




#68
m/p-Xylenes
Concen: 0.212 ug/l
RT: 12.082 min Scan# 1722
Delta R.T. 0.012 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

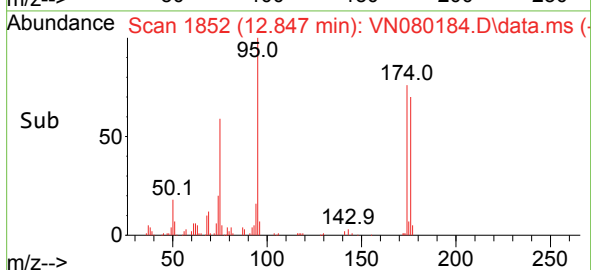
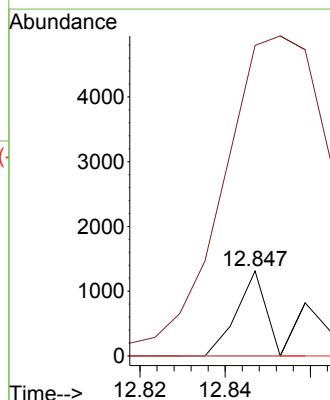
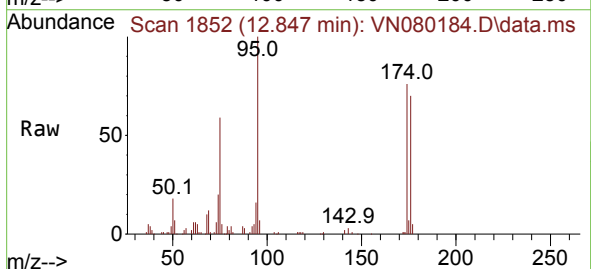
Instrument :
MSVOA_N
ClientSampleId :

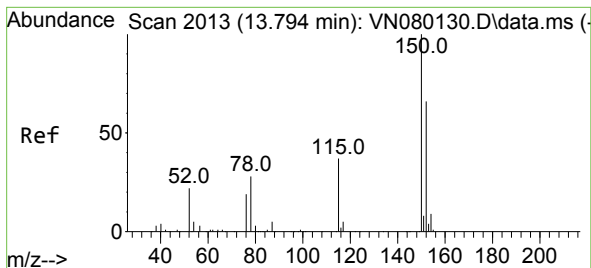
Tgt Ion:106 Resp: 932
Ion Ratio Lower Upper
106 100
91 202.9 159.6 239.4



#71
Bromoform
Concen: 0.319 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion:173 Resp: 624
Ion Ratio Lower Upper
173 100
175 1142.3 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: VN080184.D

Acq: 18 Nov 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

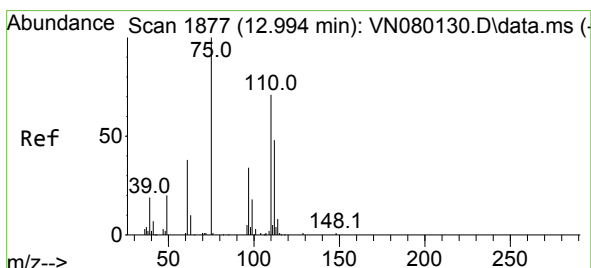
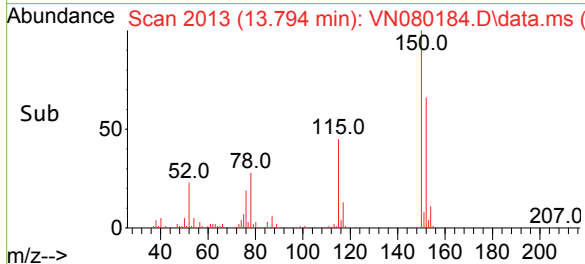
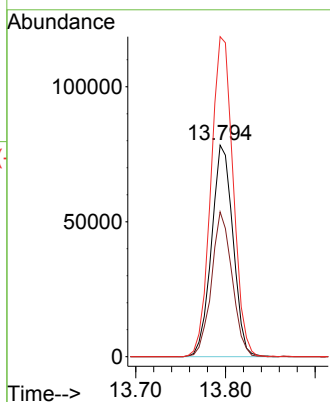
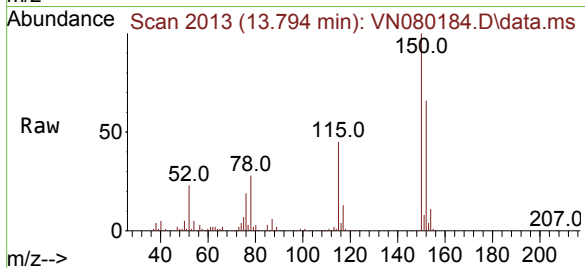
Tgt Ion:152 Resp: 130370

Ion Ratio Lower Upper

152 100

115 65.6 32.3 96.8

150 156.1 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 25.963 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080184.D

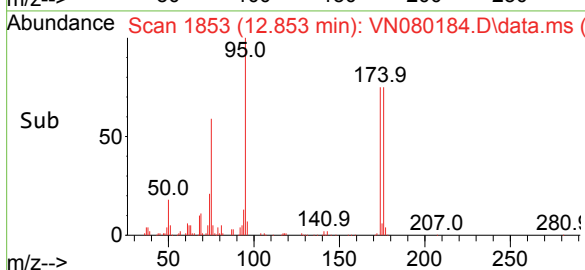
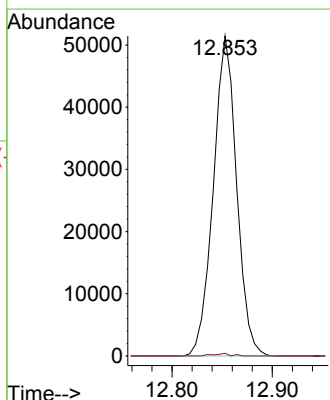
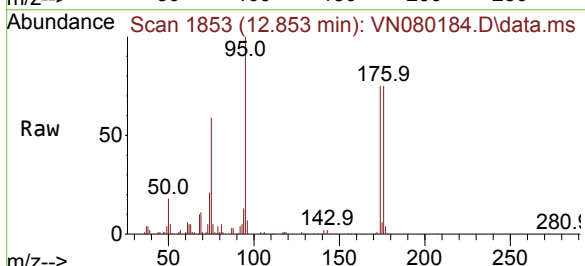
Acq: 18 Nov 2023 14:31

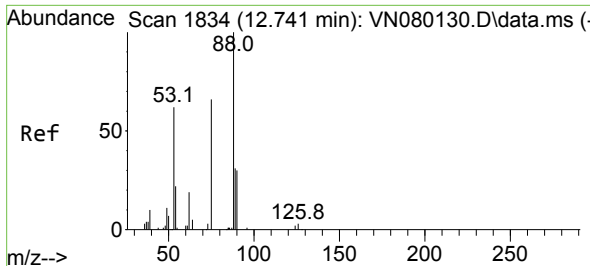
Tgt Ion: 75 Resp: 82932

Ion Ratio Lower Upper

75 100

77 0.6 84.5 253.5#

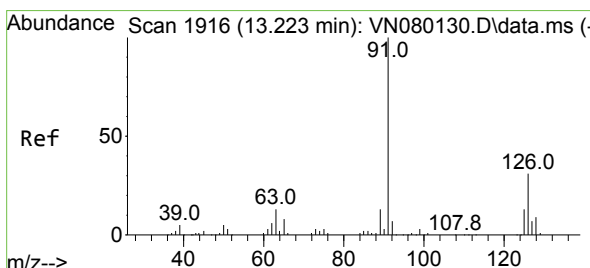
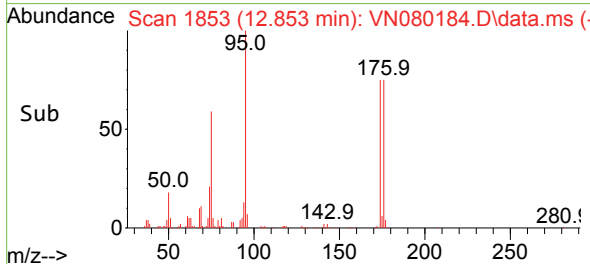
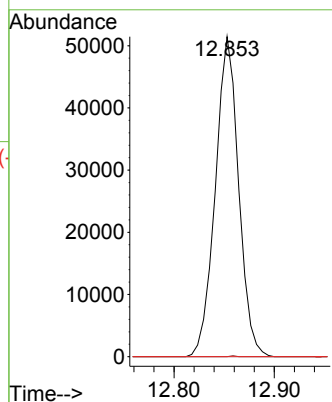
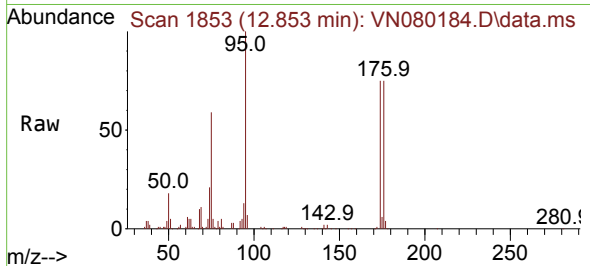




#81
trans-1,4-Dichloro-2-butene
Concen: 87.717 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

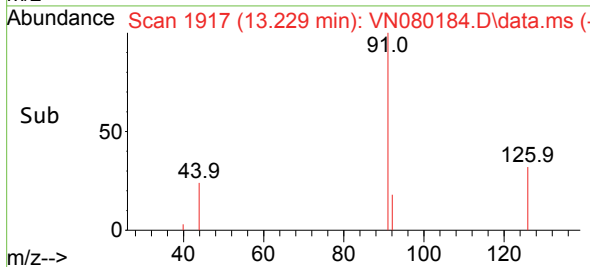
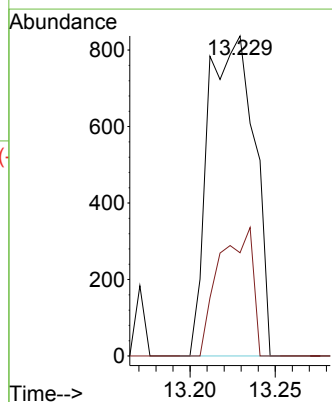
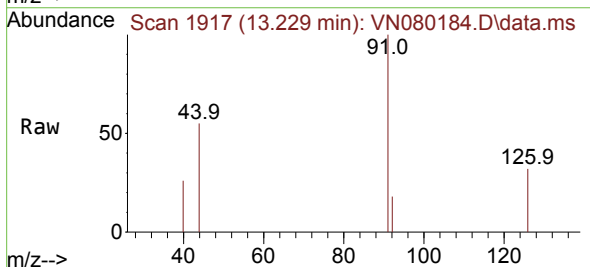
Instrument :
MSVOA_N
ClientSampleId :

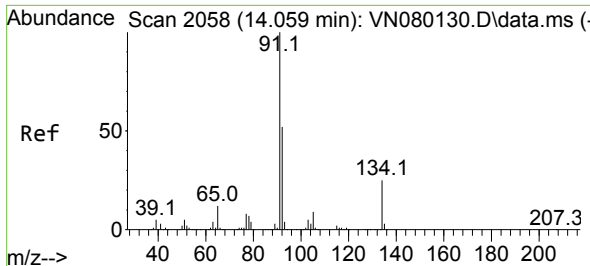
Tgt Ion: 75 Resp: 82932
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#82
4-Chlorotoluene
Concen: 0.209 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion: 91 Resp: 1572
Ion Ratio Lower Upper
91 100
126 29.6 16.7 50.0

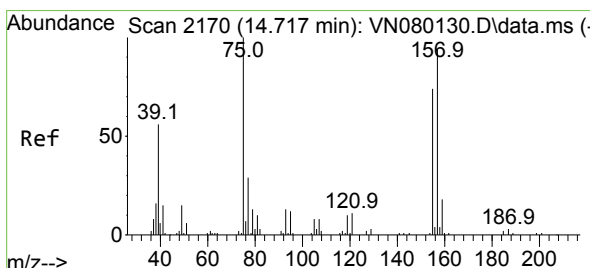
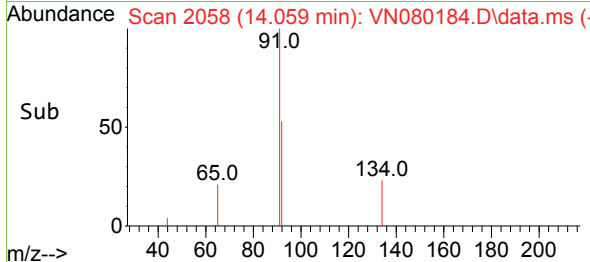
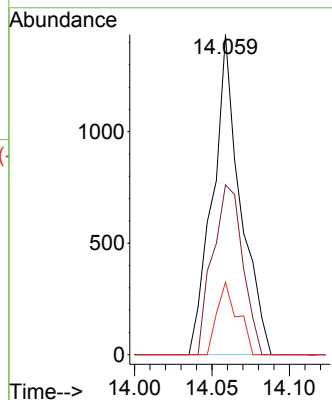
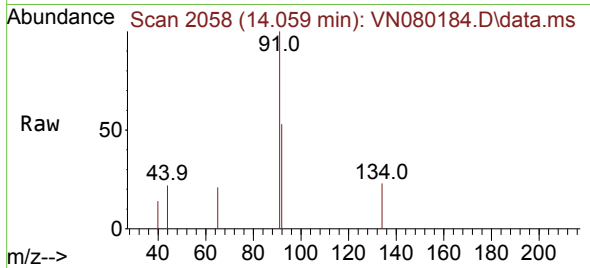




#89
n-Butylbenzene
Concen: 0.265 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

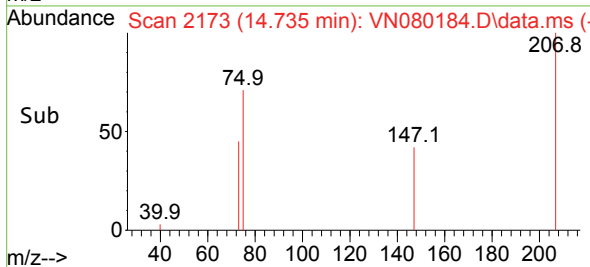
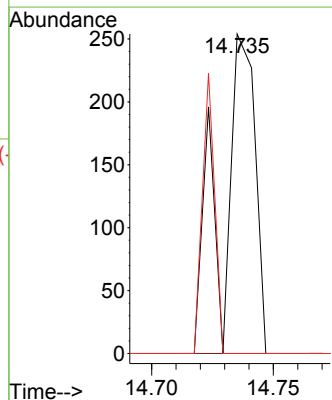
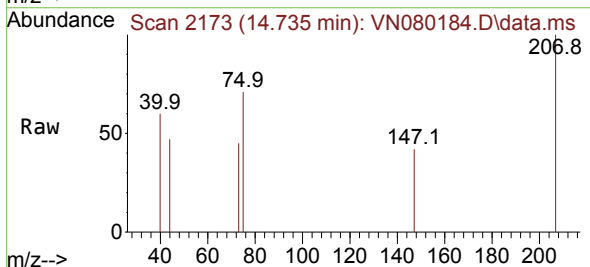
Instrument :
MSVOA_N
ClientSampleId :

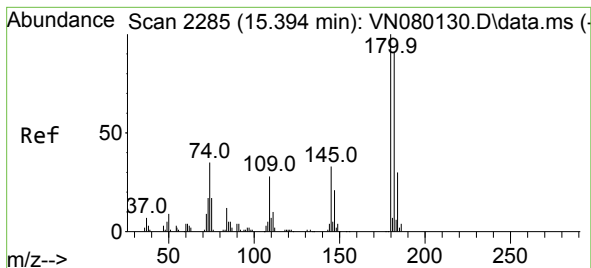
Tgt Ion: 91 Resp: 1771
Ion Ratio Lower Upper
91 100
92 57.8 26.4 79.0
134 17.0 12.6 37.6



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.339 ug/l
RT: 14.735 min Scan# 2173
Delta R.T. 0.018 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion: 75 Resp: 239
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 33.1 50.3 150.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.733 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN080184.D

Acq: 18 Nov 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

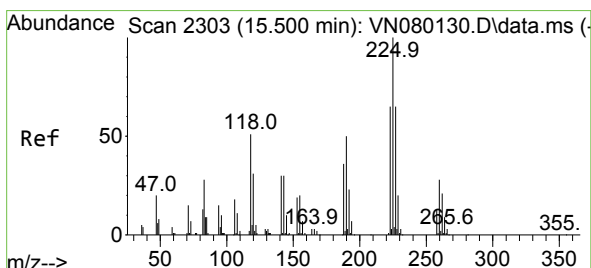
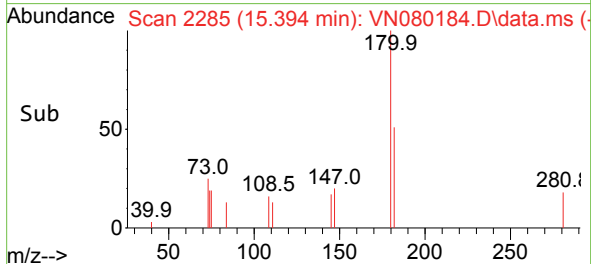
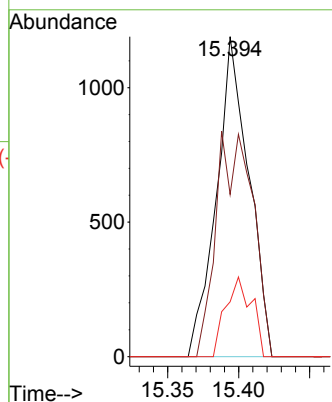
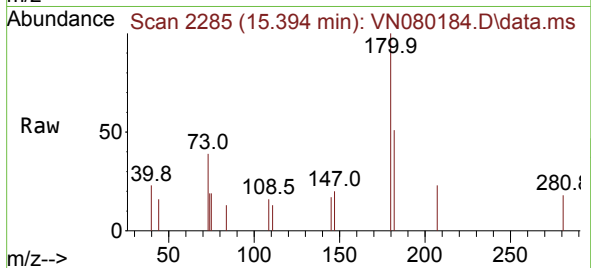
Tgt Ion:180 Resp: 1877

Ion Ratio Lower Upper

180 100

182 80.1 46.1 138.2

145 20.1 16.6 49.8



#94

Hexachlorobutadiene

Concen: 0.583 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN080184.D

Acq: 18 Nov 2023 14:31

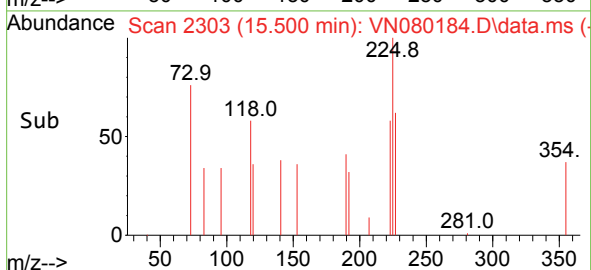
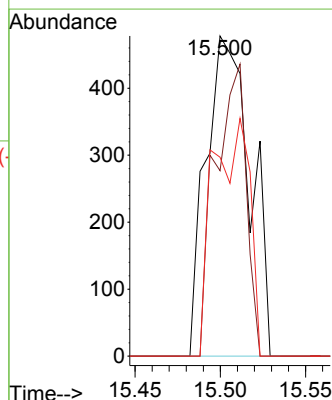
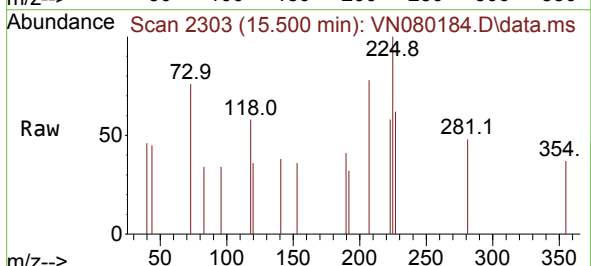
Tgt Ion:225 Resp: 860

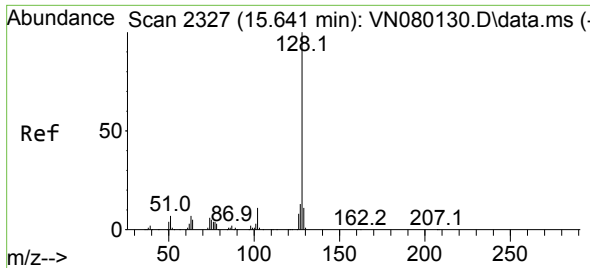
Ion Ratio Lower Upper

225 100

223 63.8 31.3 93.8

227 61.3 31.9 95.9

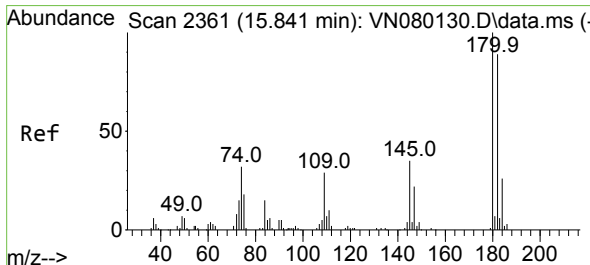
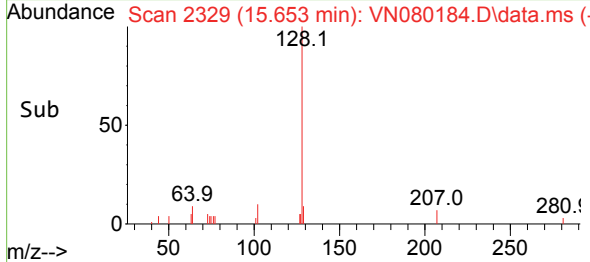
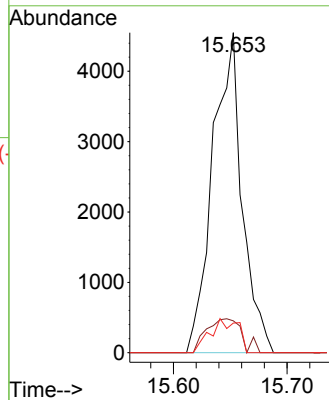
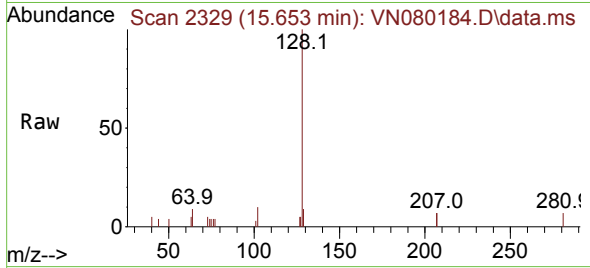




#95
Naphthalene
Concen: 1.101 ug/l
RT: 15.653 min Scan# 2329
Delta R.T. 0.012 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 8174
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 10.2 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.750 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. 0.006 min
Lab File: VN080184.D
Acq: 18 Nov 2023 14:31

Tgt Ion:180 Resp: 1801
Ion Ratio Lower Upper
180 100
182 103.1 46.2 138.6
145 41.3 17.5 52.6

