

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101321\
 Data File : VN068893.D
 Acq On : 13 Oct 2021 13:16
 Operator : JC/MD
 Sample : M4142-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2186-2187

Quant Time: Oct 14 06:41:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 13 05:44:40 2021
 Response via : Initial Calibration

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

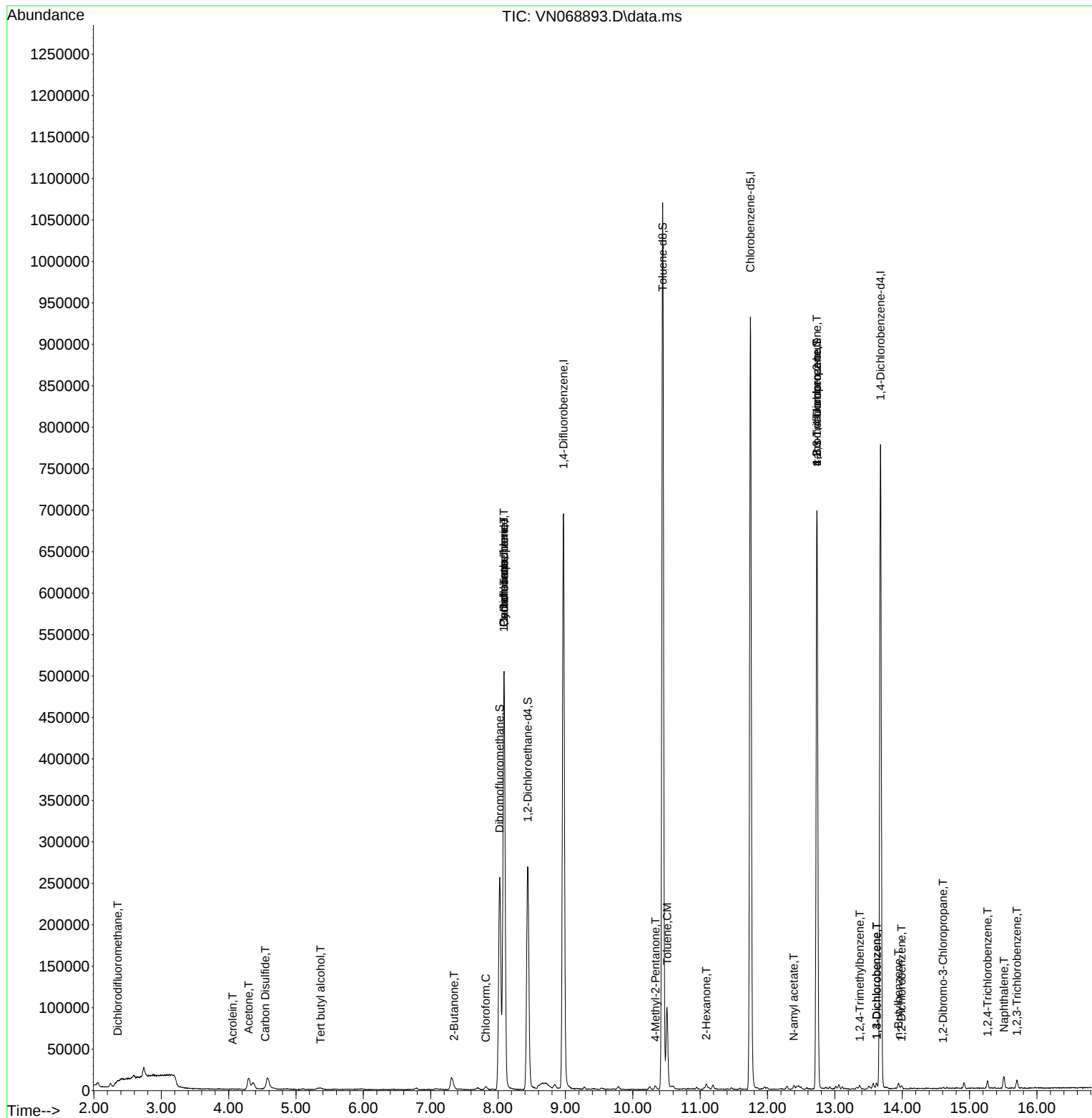
Internal Standards						
1) Pentafluorobenzene	8.088	168	396380	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	640776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	562656	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	215376	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	230955	44.192	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	88.380%		
35) Dibromofluoromethane	8.024	113	190805	51.180	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	102.360%		
50) Toluene-d8	10.443	98	769689	51.599	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.200%		
62) 4-Bromofluorobenzene	12.733	95	254185	45.165	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	90.340%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.351	85	51	1.253	ug/l #	42
11) Tert butyl alcohol	5.363	59	2053	2.150	ug/l #	89
13) Acrolein	4.060	56	513	1.214	ug/l #	50
16) Acetone	4.296	43	25359	13.003	ug/l	95
17) Carbon Disulfide	4.545	76	2208	0.212	ug/l #	75
25) 2-Butanone	7.345	43	3252	1.103	ug/l #	88
30) Chloroform	7.817	83	3597	0.440	ug/l	88
31) Cyclohexane	8.088	56	8864	1.091	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	30012	5.483	ug/l #	49
38) Carbon Tetrachloride	8.088	117	39744	6.612	ug/l #	16
51) 4-Methyl-2-Pentanone	10.338	43	2906	0.502	ug/l	93
52) Toluene	10.510	92	41438	3.865	ug/l	97
59) 2-Hexanone	11.089	43	4169	1.005	ug/l	89
74) N-amyl acetate	12.390	43	2139	0.315	ug/l #	77
76) 1,2,3-Trichloropropane	12.733	75	129437	28.245	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	129437	67.575	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.369	105	2963	0.206	ug/l	88
87) 1,3-Dichlorobenzene	13.621	146	1960	0.286	ug/l	84
88) 1,4-Dichlorobenzene	13.621	146	1960	0.288	ug/l	85
89) n-Butylbenzene	13.943	91	4284	0.356	ug/l	91
91) 1,2-Dichlorobenzene	13.991	146	1784	0.268	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.605	75	366	0.366	ug/l	89
93) 1,2,4-Trichlorobenzene	15.268	180	3289	3.463	ug/l	98
95) Naphthalene	15.512	128	14369	5.140	ug/l	97
96) 1,2,3-Trichlorobenzene	15.702	180	3947	3.603	ug/l	94

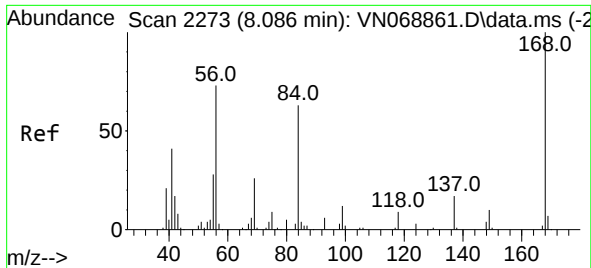
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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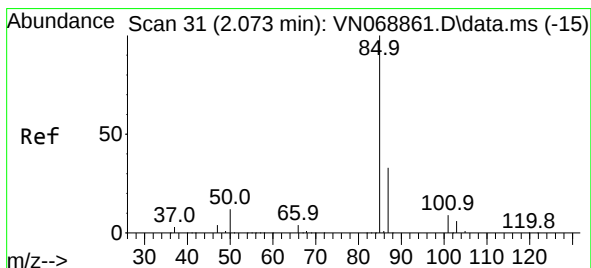
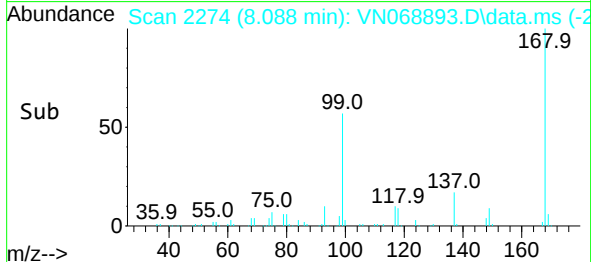
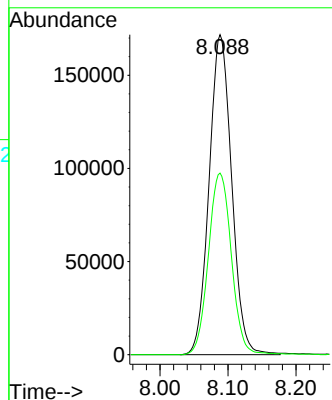
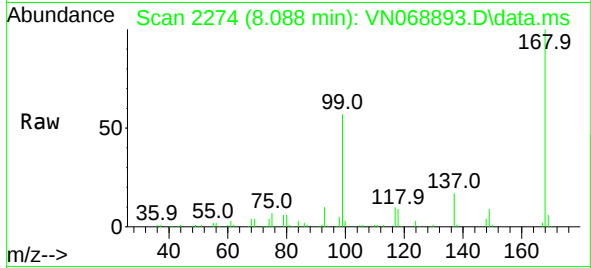




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

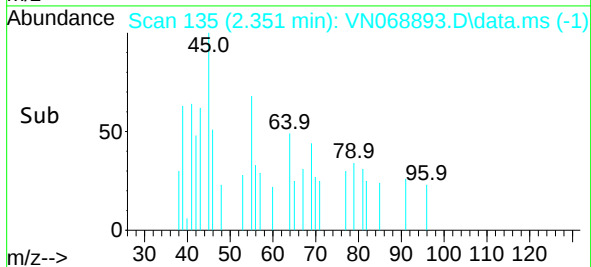
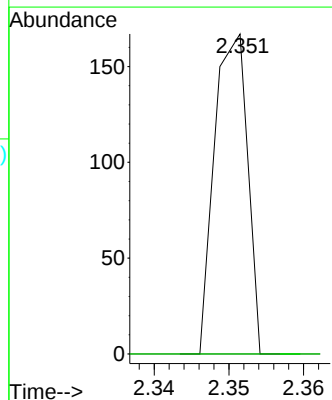
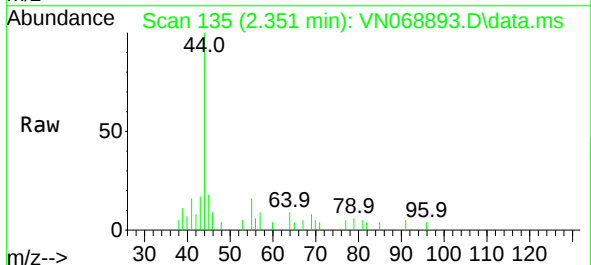
Instrument :
MSVOA_N
ClientSampled :
2186-2187

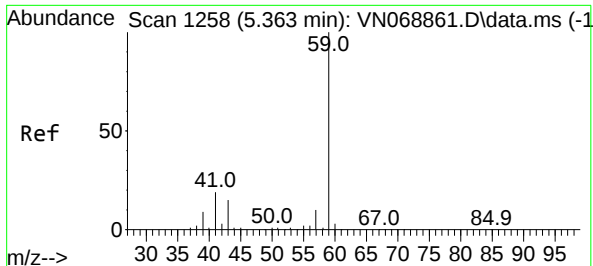
Tgt Ion:168 Resp: 396380
Ion Ratio Lower Upper
168 100
99 56.8 48.9 73.3



#2
Dichlorodifluoromethane
Concen: 1.253 ug/l
RT: 2.351 min Scan# 135
Delta R.T. 0.278 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 85 Resp: 51
Ion Ratio Lower Upper
85 100
87 0.0 16.3 48.8#



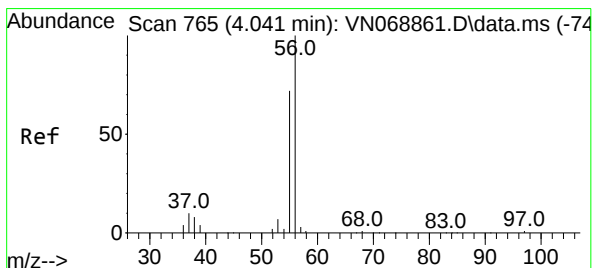
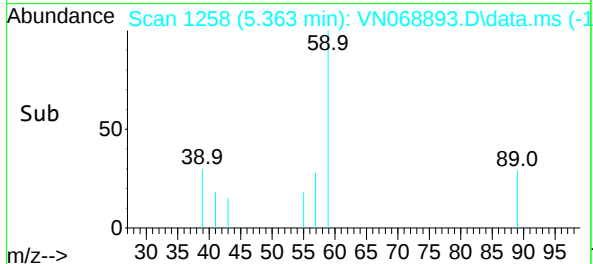
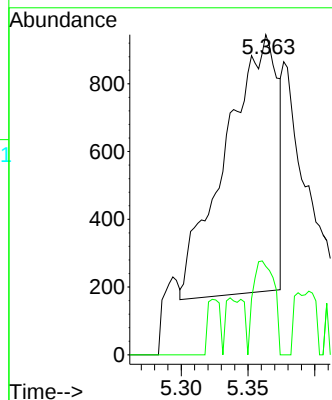
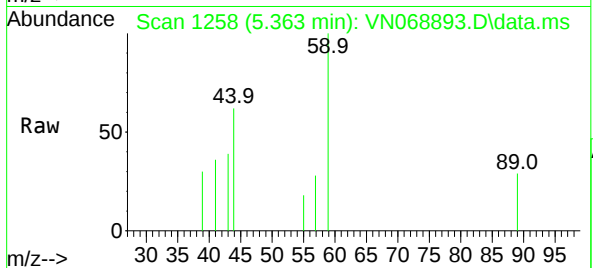


#11

Tert butyl alcohol
Concen: 2.150 ug/l
RT: 5.363 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Instrument :
MSVOA_N
ClientSampled :
2186-2187

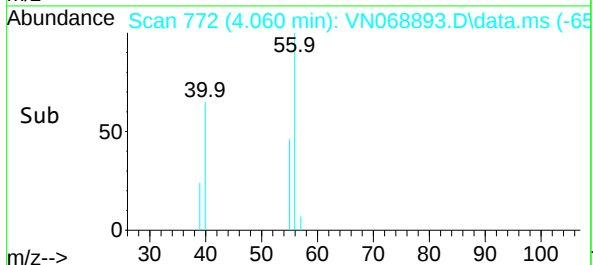
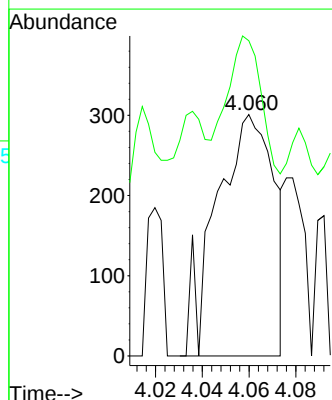
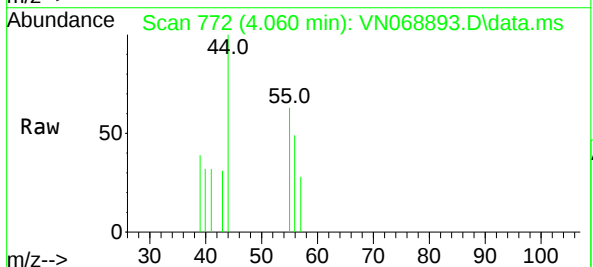
Tgt Ion: 59 Resp: 2053
Ion Ratio Lower Upper
59 100
57 14.7 8.3 12.5#

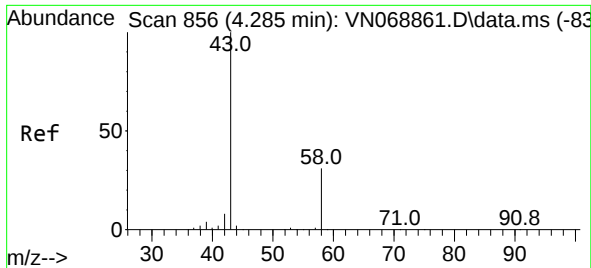


#13

Acrolein
Concen: 1.214 ug/l
RT: 4.060 min Scan# 772
Delta R.T. 0.019 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 56 Resp: 513
Ion Ratio Lower Upper
56 100
55 30.8 58.1 87.1#

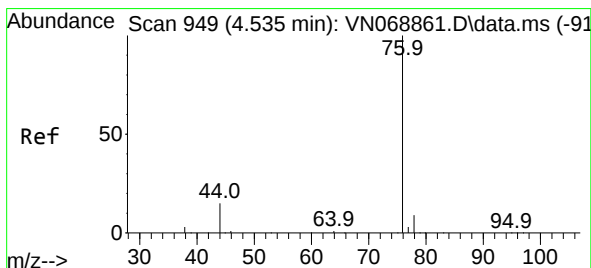
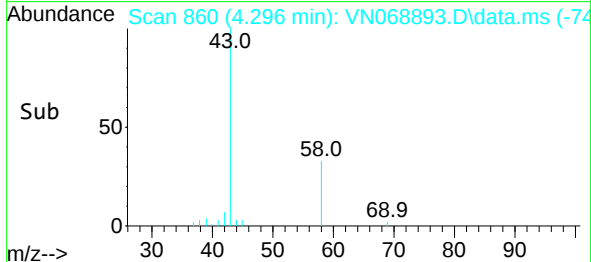
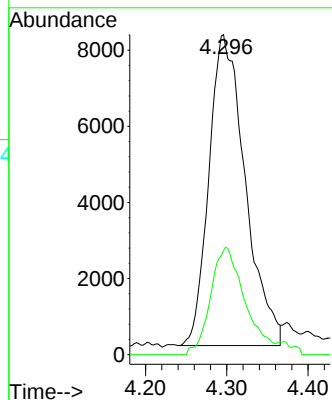
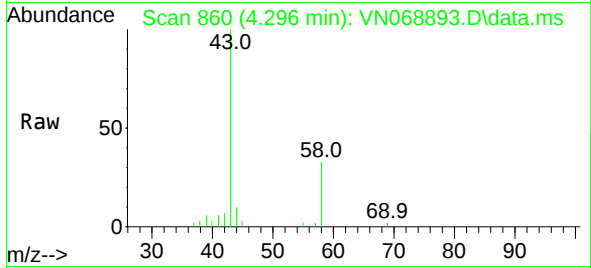




#16
Acetone
Concen: 13.003 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.011 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

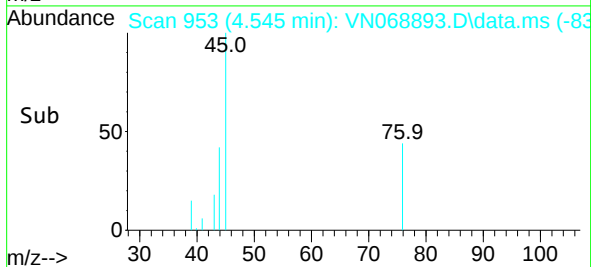
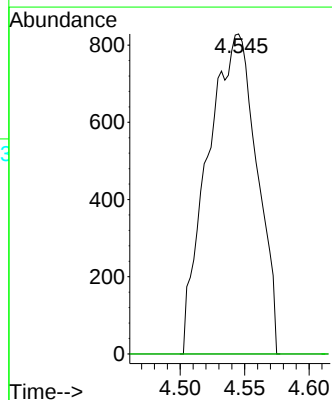
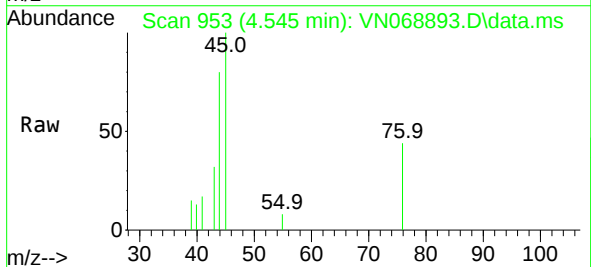
Instrument :
MSVOA_N
ClientSampleId :
2186-2187

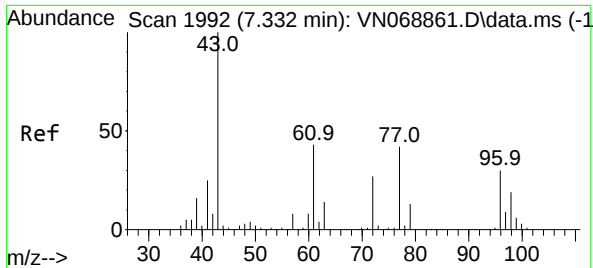
Tgt Ion: 43 Resp: 25359
Ion Ratio Lower Upper
43 100
58 33.5 24.5 36.7



#17
Carbon Disulfide
Concen: 0.212 ug/l
RT: 4.545 min Scan# 953
Delta R.T. 0.011 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 76 Resp: 2208
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

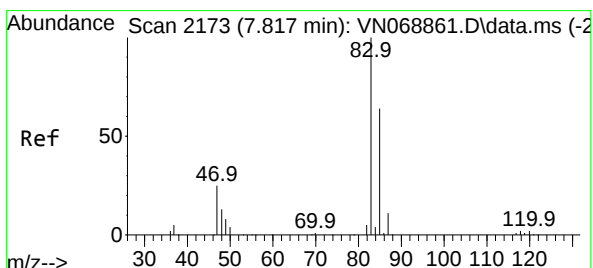
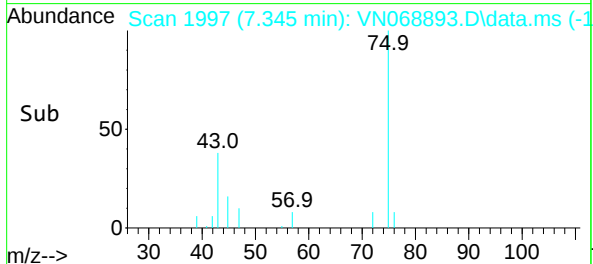
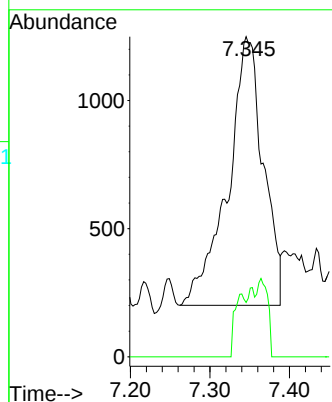
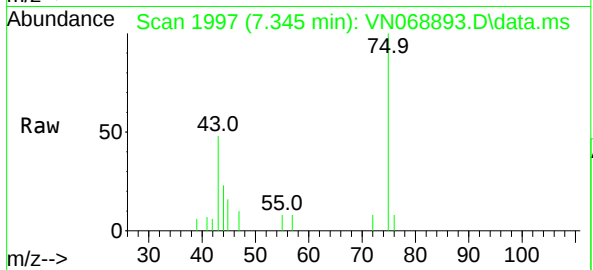




#25
2-Butanone
Concen: 1.103 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. 0.013 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

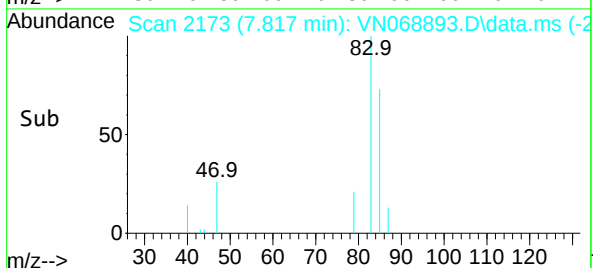
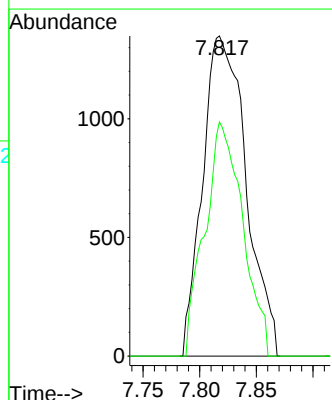
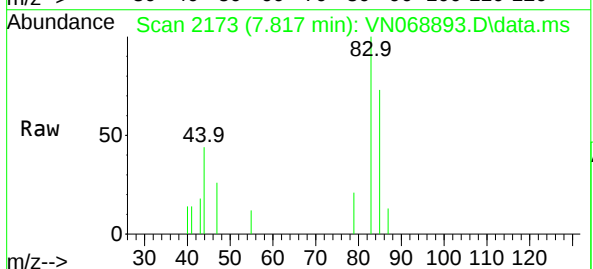
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MSVOA_N
ClientSampled :
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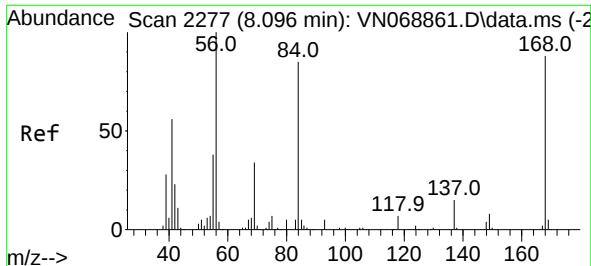
Tgt Ion: 43 Resp: 3252
Ion Ratio Lower Upper
43 100
72 20.2 21.2 31.8#



#30
Chloroform
Concen: 0.440 ug/l
RT: 7.817 min Scan# 2173
Delta R.T. -0.000 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 83 Resp: 3597
Ion Ratio Lower Upper
83 100
85 73.2 51.1 76.7

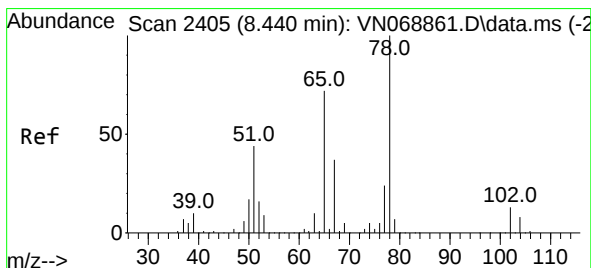
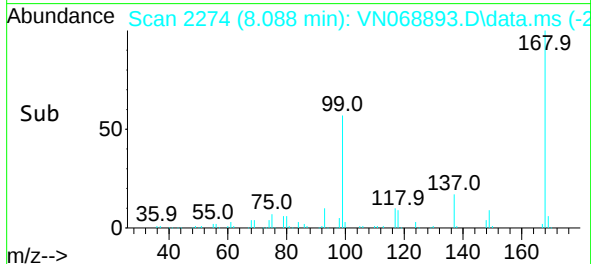
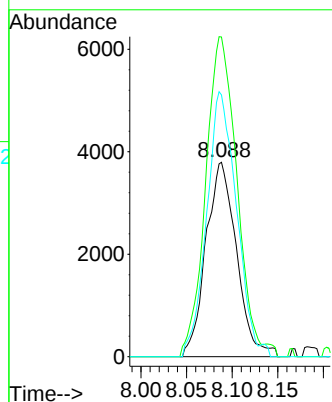
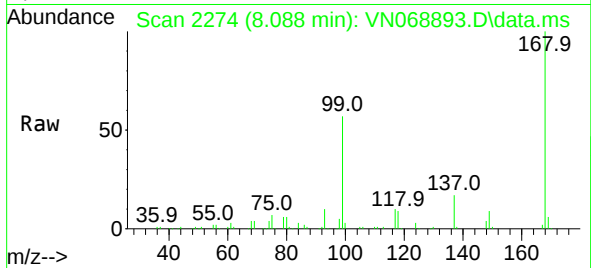




#31
Cyclohexane
Concen: 1.091 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.008 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

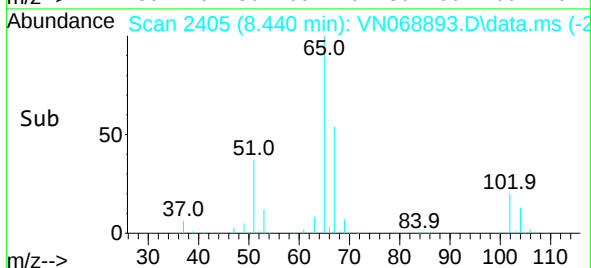
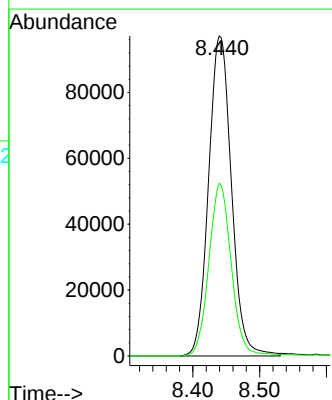
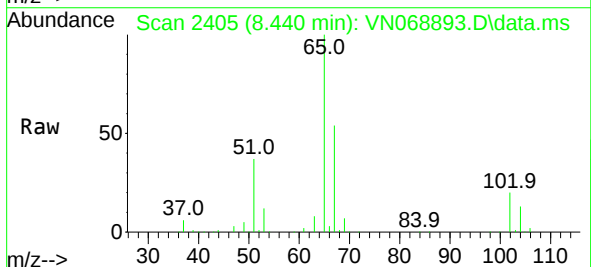
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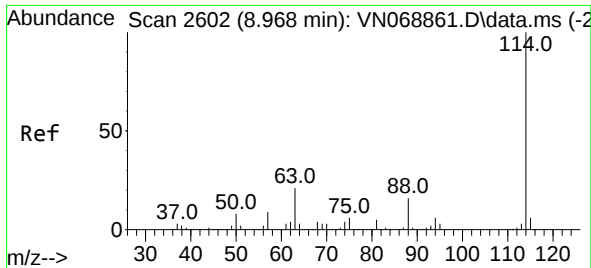
Tgt Ion: 56 Resp: 8864
Ion Ratio Lower Upper
56 100
69 164.5 26.9 40.3#
84 134.7 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 44.192 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 65 Resp: 230955
Ion Ratio Lower Upper
65 100
67 52.9 0.0 103.8

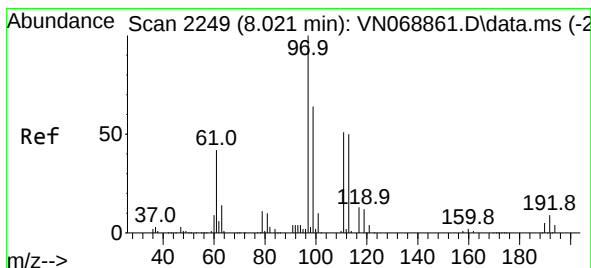
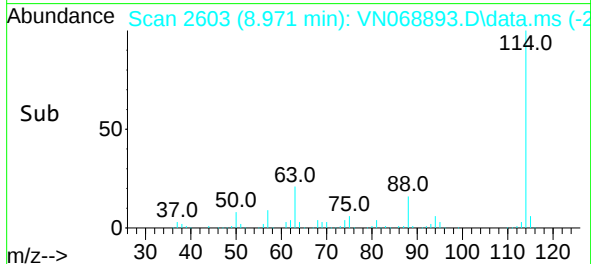
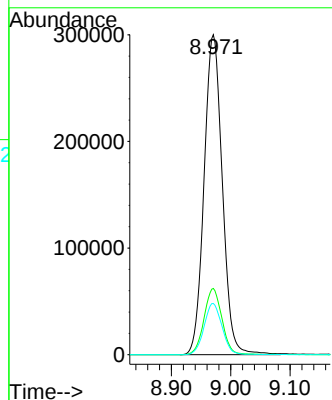
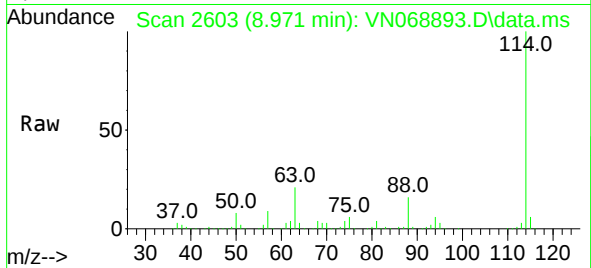




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

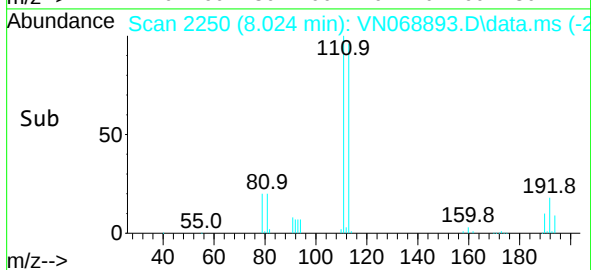
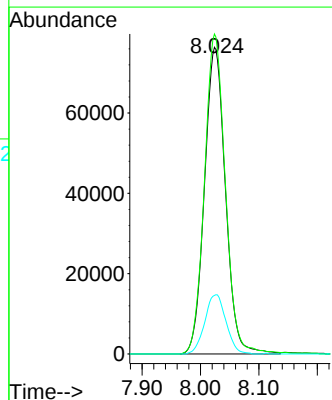
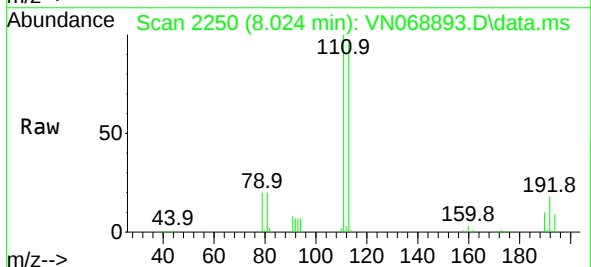
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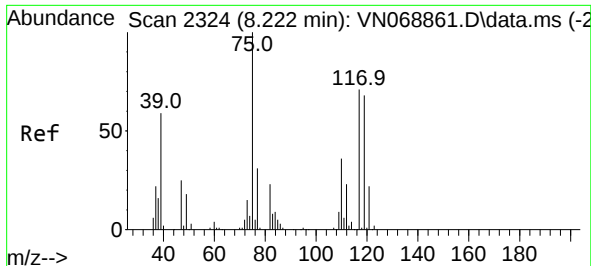
Tgt Ion:114 Resp: 640776
Ion Ratio Lower Upper
114 100
63 20.7 0.0 42.6
88 16.0 0.0 32.0



#35
Dibromofluoromethane
Concen: 51.180 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion:113 Resp: 190805
Ion Ratio Lower Upper
113 100
111 103.7 83.2 124.8
192 19.5 15.0 22.4

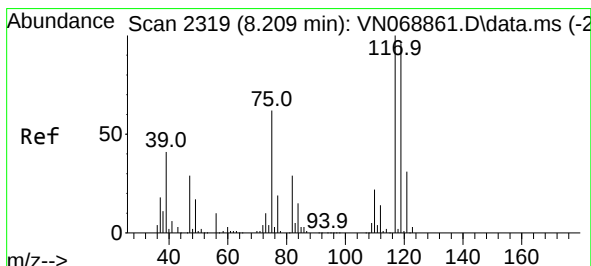
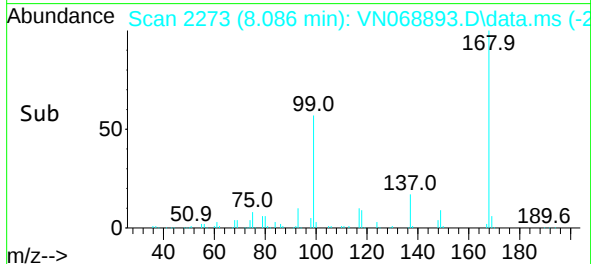
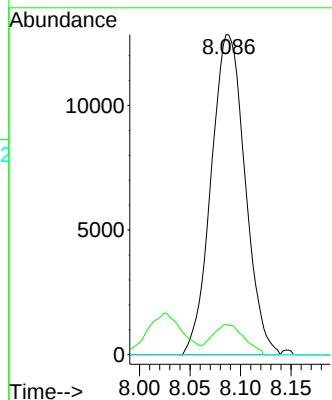
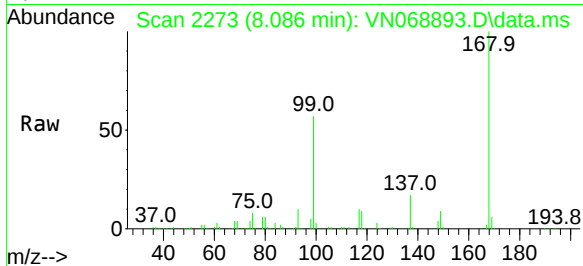




#36
1,1-Dichloropropene
Concen: 5.483 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

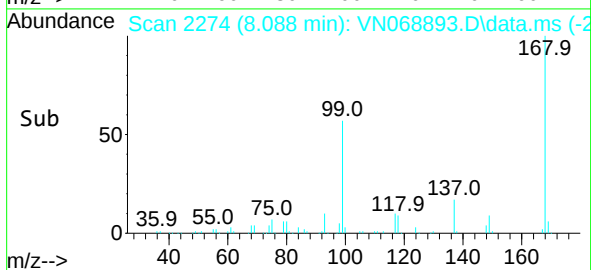
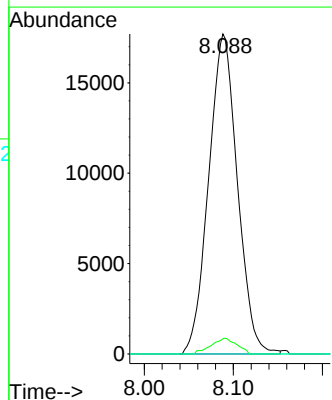
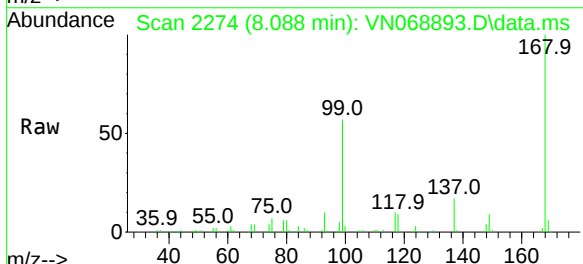
Instrument :
MSVOA_N
ClientSampled :
2186-2187

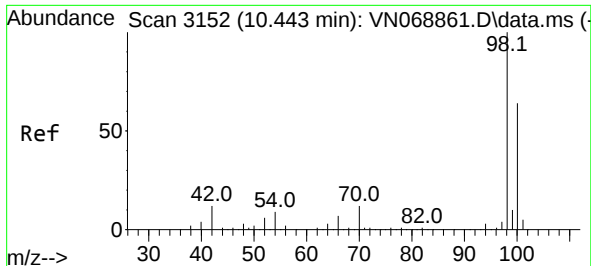
Tgt Ion: 75 Resp: 30012
Ion Ratio Lower Upper
75 100
110 8.9 17.9 53.8#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 6.612 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 117 Resp: 39744
Ion Ratio Lower Upper
117 100
119 4.7 76.9 115.3#
121 0.0 24.6 37.0#

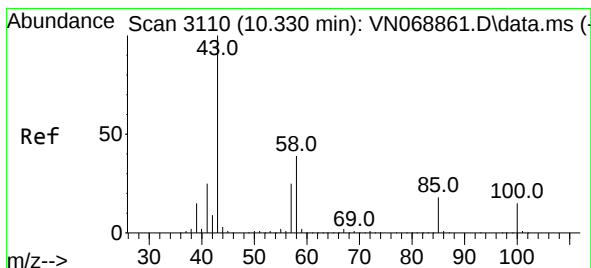
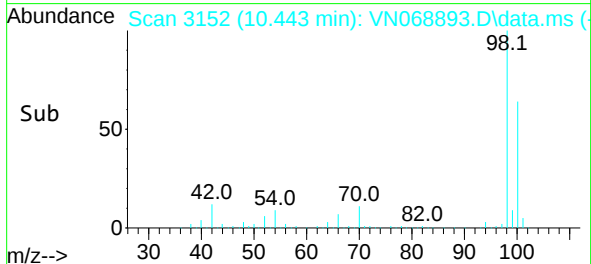
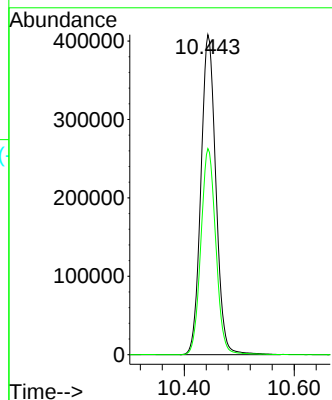
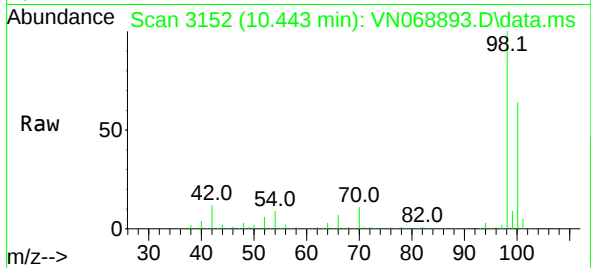




#50
Toluene-d8
Concen: 51.599 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

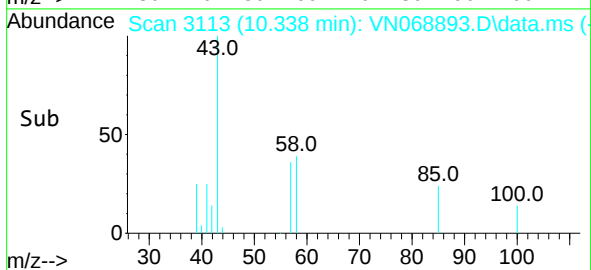
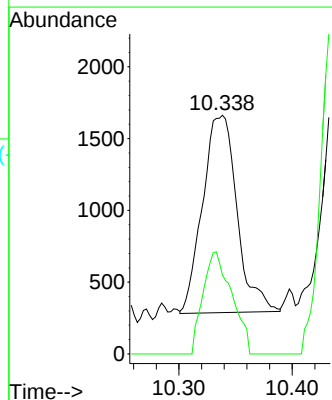
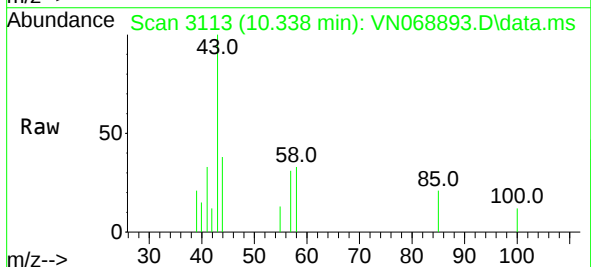
Instrument :
MSVOA_N
ClientSampled :
2186-2187

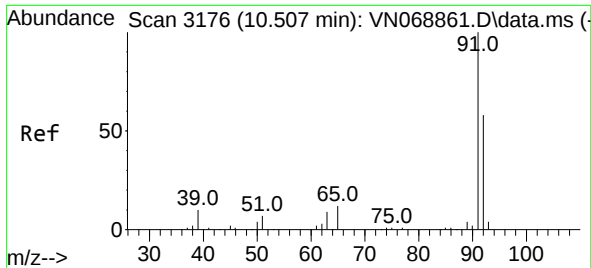
Tgt Ion: 98 Resp: 769689
Ion Ratio Lower Upper
98 100
100 64.5 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.502 ug/l
RT: 10.338 min Scan# 3113
Delta R.T. 0.008 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 43 Resp: 2906
Ion Ratio Lower Upper
43 100
58 43.2 31.0 46.4

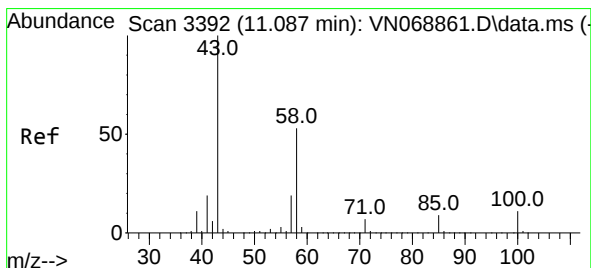
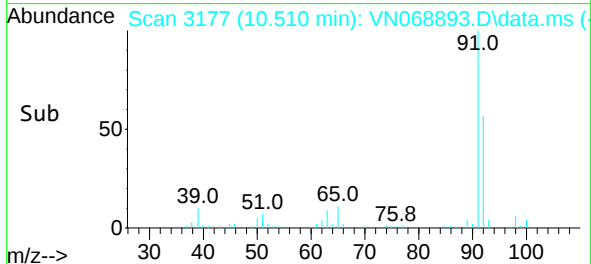
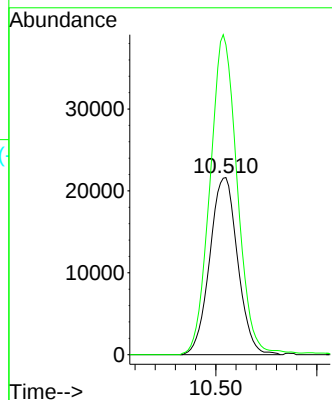
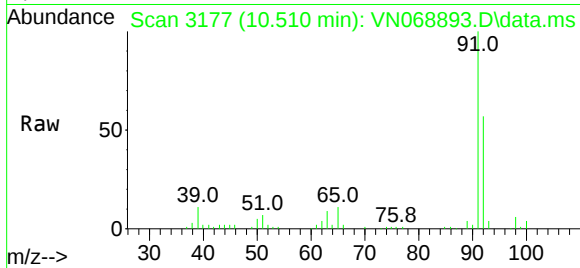




#52
Toluene
Concen: 3.865 ug/l
RT: 10.510 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

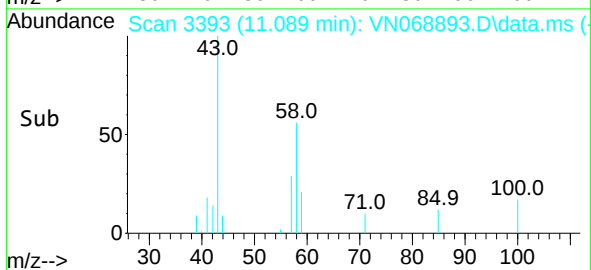
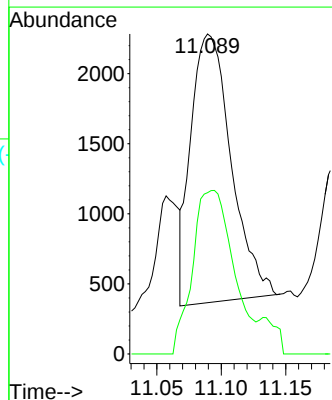
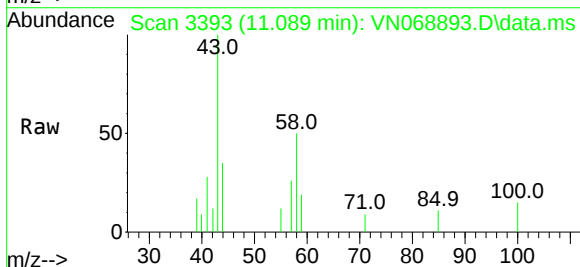
Instrument :
MSVOA_N
ClientSampled :
2186-2187

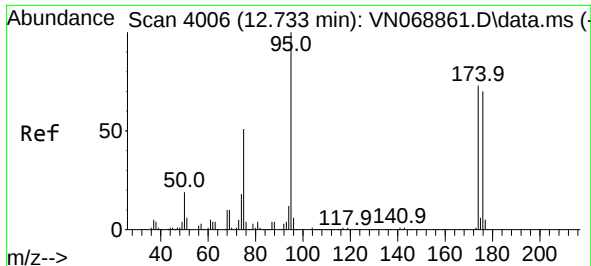
Tgt Ion: 92 Resp: 41438
Ion Ratio Lower Upper
92 100
91 176.7 138.5 207.7



#59
2-Hexanone
Concen: 1.005 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.003 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 43 Resp: 4169
Ion Ratio Lower Upper
43 100
58 61.8 26.9 80.7

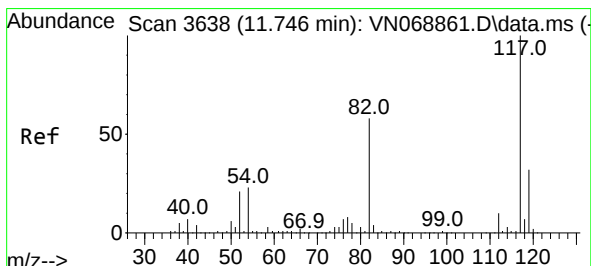
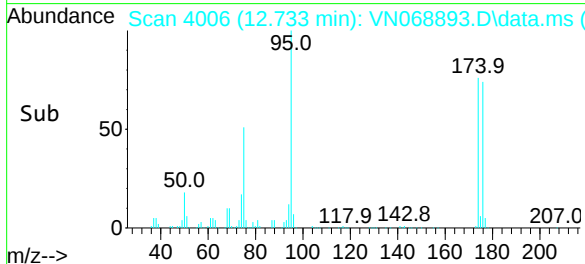
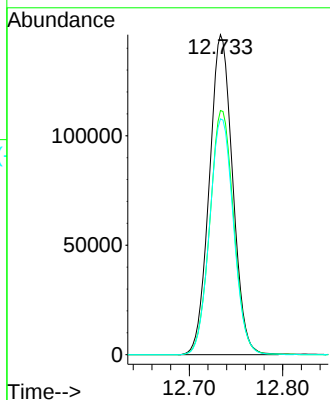
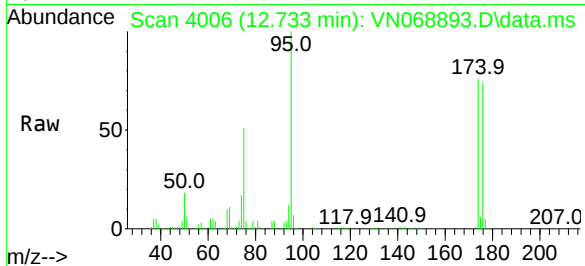




#62
4-Bromofluorobenzene
Concen: 45.165 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

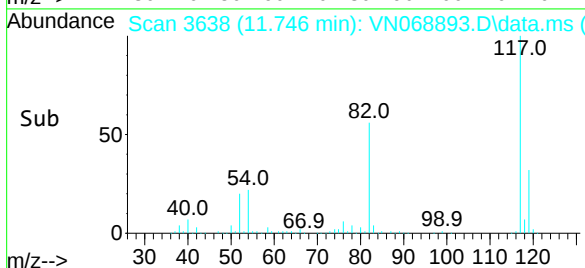
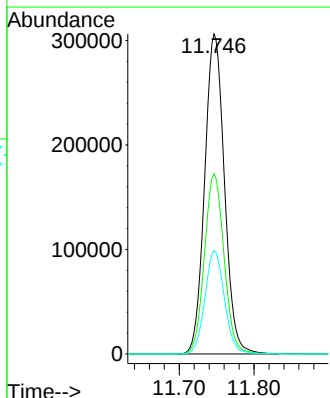
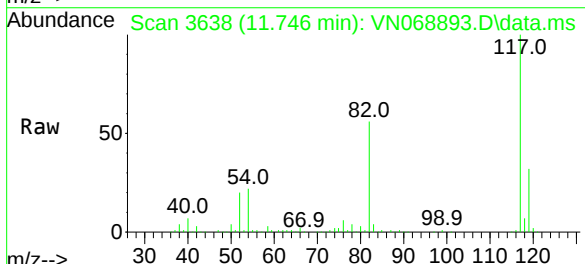
Instrument :
MSVOA_N
ClientSampleId :
2186-2187

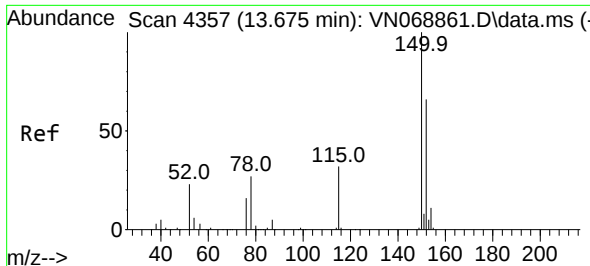
Tgt Ion: 95 Resp: 254185
Ion Ratio Lower Upper
95 100
174 78.0 0.0 144.8
176 75.8 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 117 Resp: 562656
Ion Ratio Lower Upper
117 100
82 56.3 46.4 69.6
119 32.3 26.0 39.0

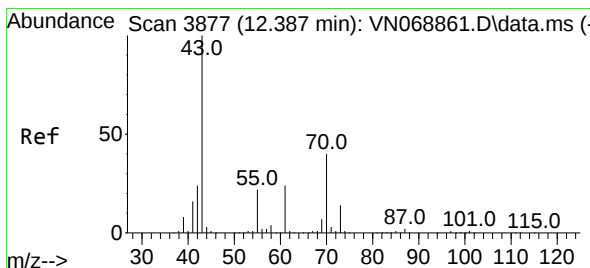
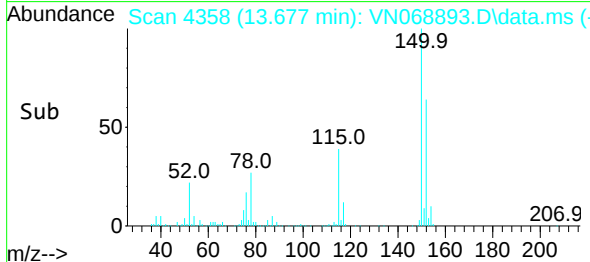
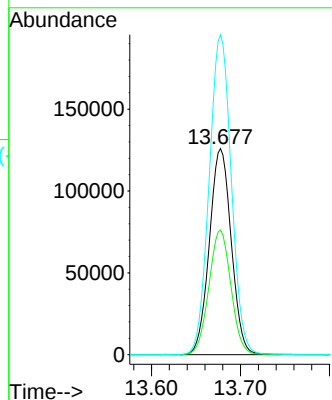
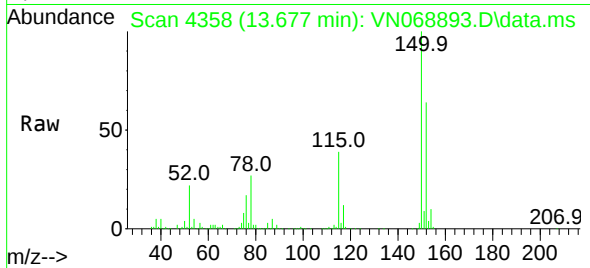




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

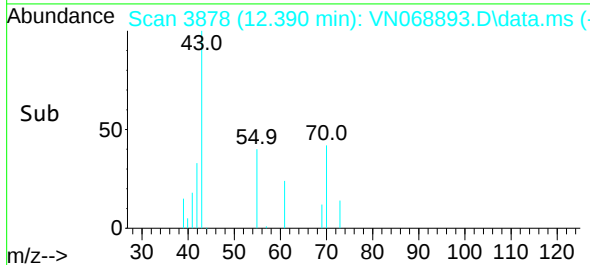
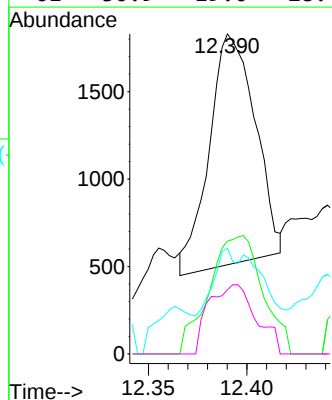
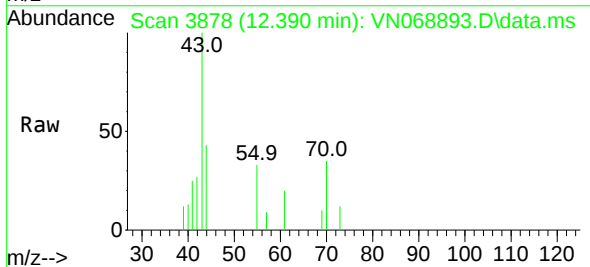
Instrument :
MSVOA_N
ClientSampleId :
2186-2187

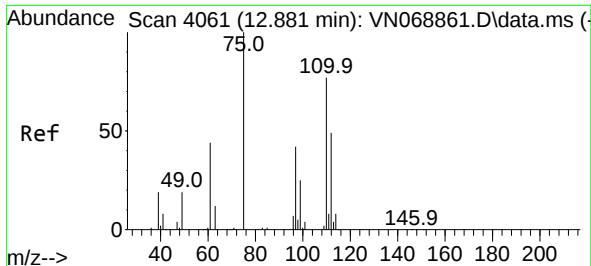
Tgt Ion:152 Resp: 215376
Ion Ratio Lower Upper
152 100
115 60.9 31.4 94.3
150 156.7 0.0 351.0



#74
N-ethyl acetate
Concen: 0.315 ug/l
RT: 12.390 min Scan# 3878
Delta R.T. 0.003 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 43 Resp: 2139
Ion Ratio Lower Upper
43 100
70 59.7 32.2 48.2#
55 14.4 18.0 27.0#
61 30.9 19.0 28.4#

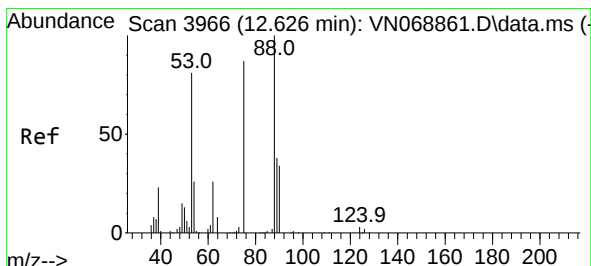
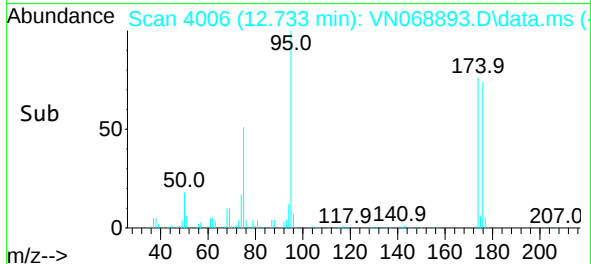
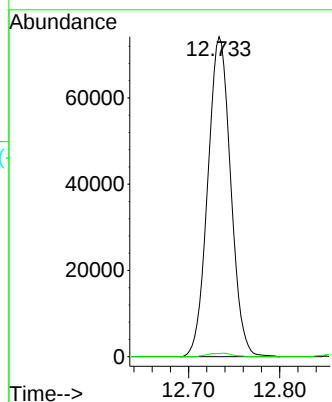
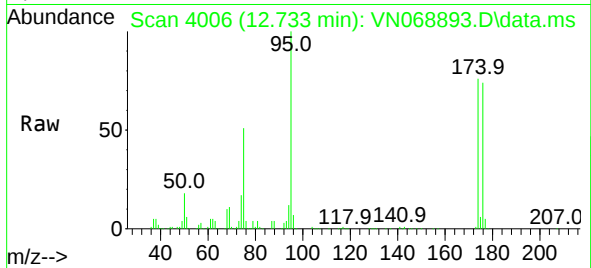




#76
1,2,3-Trichloropropane
Concen: 28.245 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

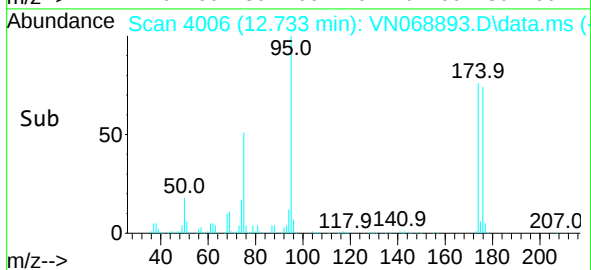
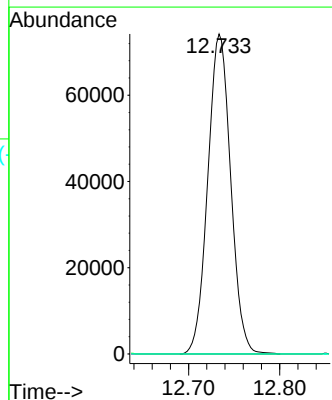
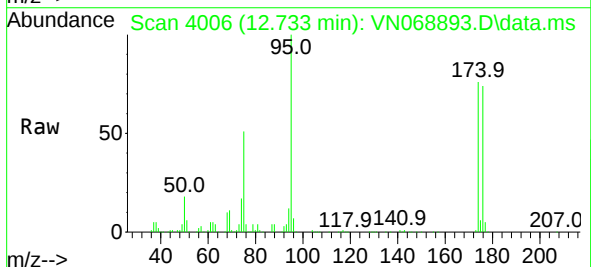
Instrument :
MSVOA_N
ClientSampled :
2186-2187

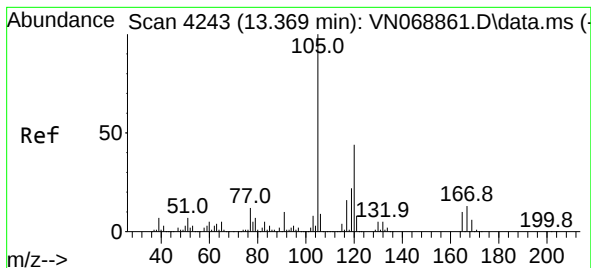
Tgt Ion: 75 Resp: 129437
Ion Ratio Lower Upper
75 100
77 1.2 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.575 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 75 Resp: 129437
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#





#84

1,2,4-Trimethylbenzene

Concen: 0.206 ug/l

RT: 13.369 min Scan# 4243

Delta R.T. -0.000 min

Lab File: VN068893.D

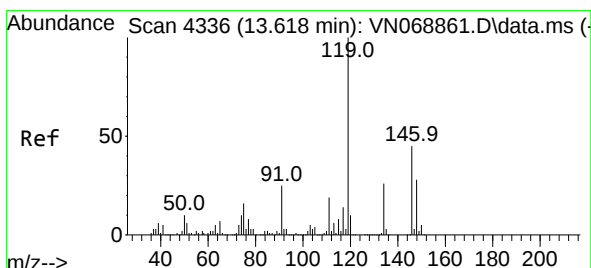
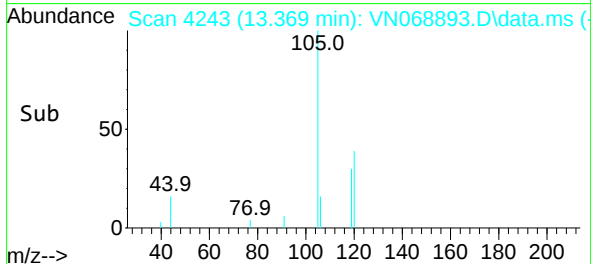
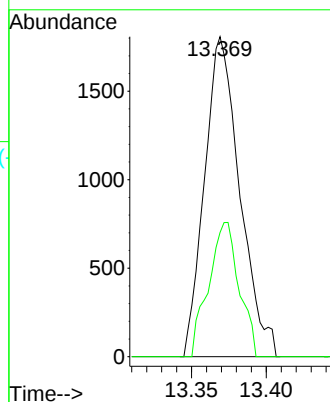
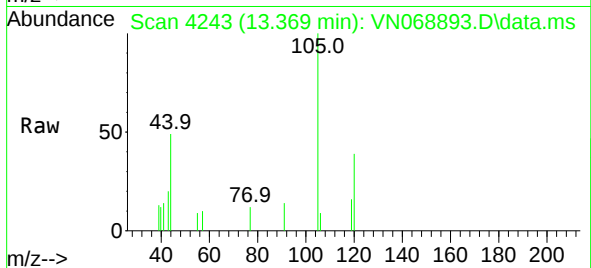
Acq: 13 Oct 2021 13:16

Tgt Ion:105 Resp: 2963

Ion Ratio Lower Upper

105 100

120 36.2 21.9 65.5



#87

1,3-Dichlorobenzene

Concen: 0.286 ug/l

RT: 13.621 min Scan# 4337

Delta R.T. 0.003 min

Lab File: VN068893.D

Acq: 13 Oct 2021 13:16

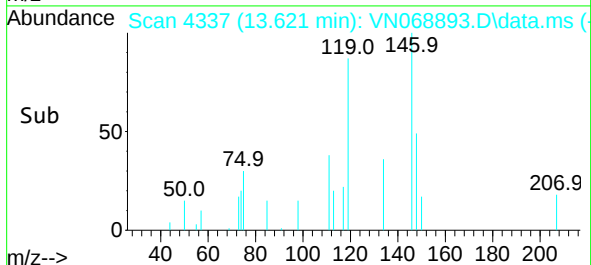
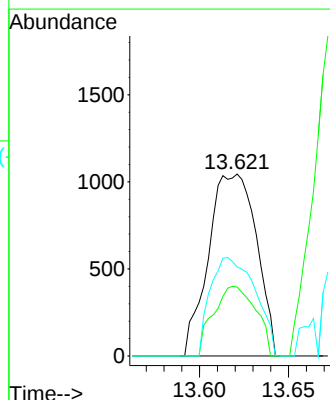
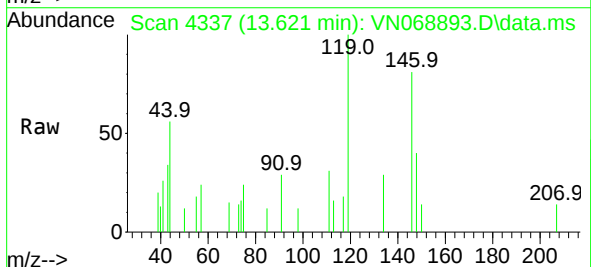
Tgt Ion:146 Resp: 1960

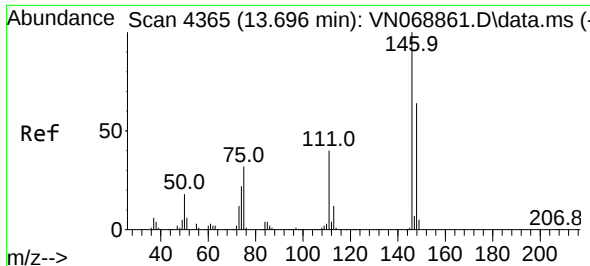
Ion Ratio Lower Upper

146 100

111 33.6 21.4 64.2

148 50.8 32.0 96.2

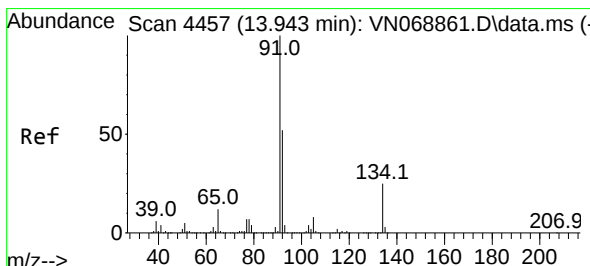
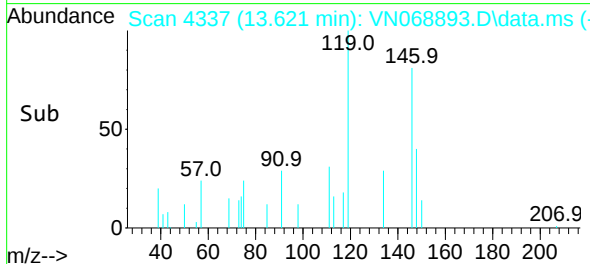
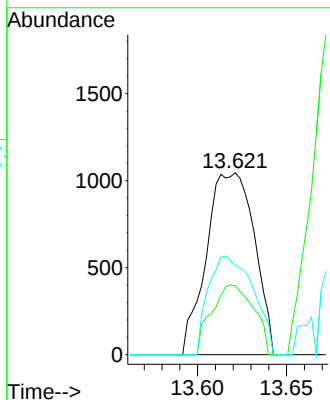
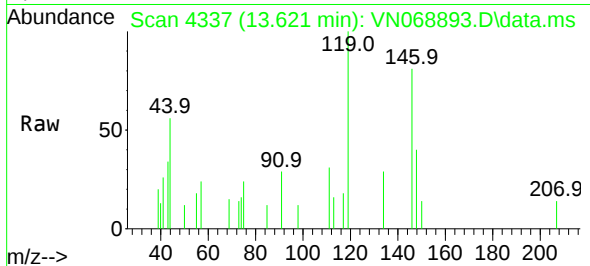




#88
1,4-Dichlorobenzene
Concen: 0.288 ug/l
RT: 13.621 min Scan# 4337
Delta R.T. -0.075 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

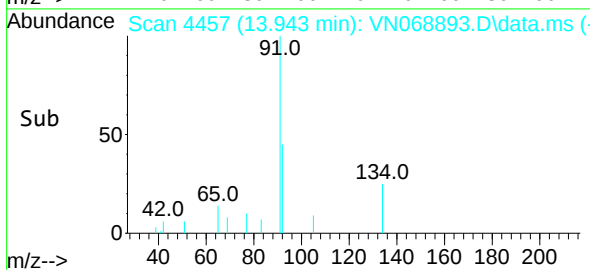
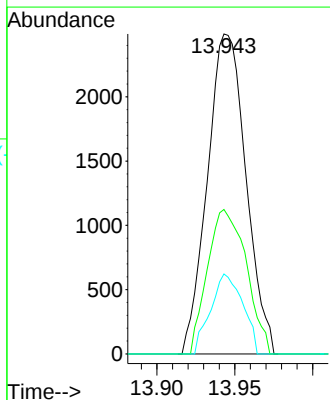
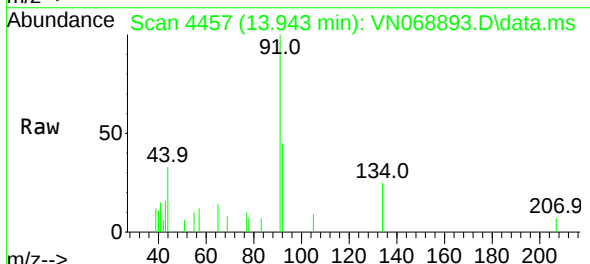
Instrument :
MSVOA_N
ClientSampled :
2186-2187

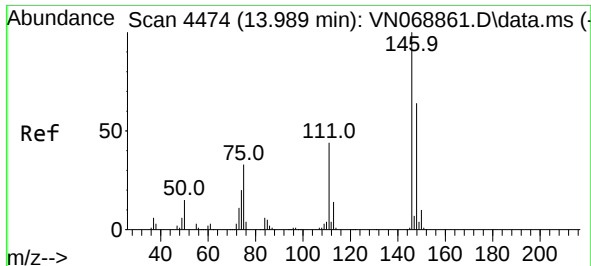
Tgt Ion:146 Resp: 1960
Ion Ratio Lower Upper
146 100
111 33.6 20.6 61.8
148 50.8 32.1 96.5



#89
n-Butylbenzene
Concen: 0.356 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. -0.000 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 91 Resp: 4284
Ion Ratio Lower Upper
91 100
92 45.5 26.0 78.0
134 20.9 12.5 37.5

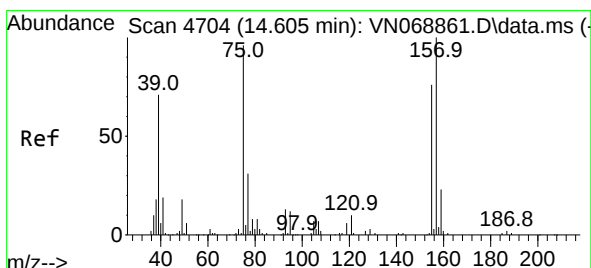
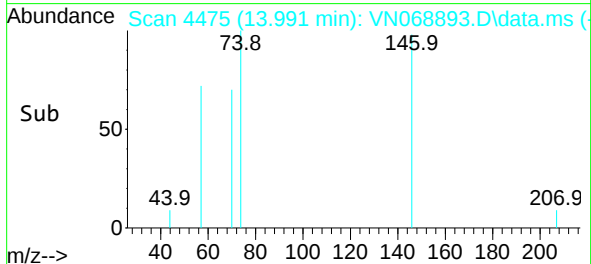
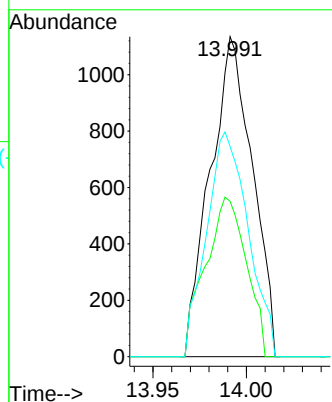
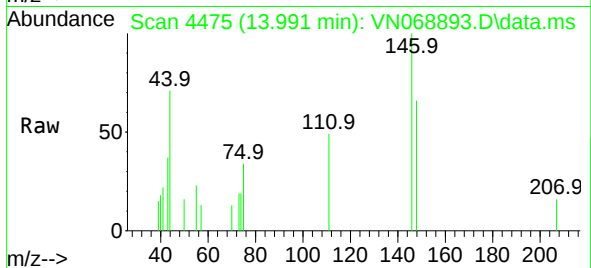




#91
1,2-Dichlorobenzene
Concen: 0.268 ug/l
RT: 13.991 min Scan# 4475
Delta R.T. 0.003 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

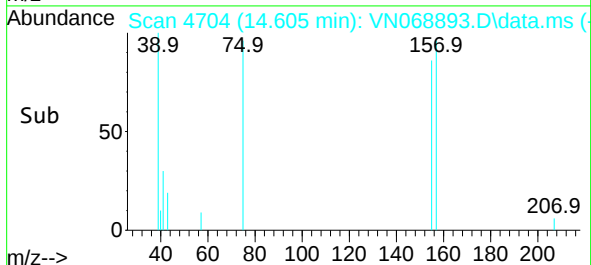
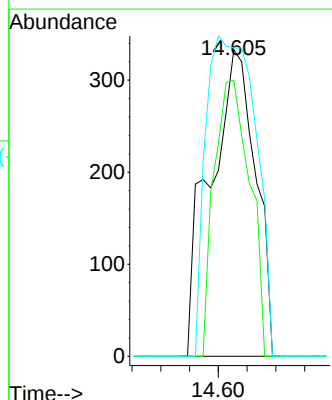
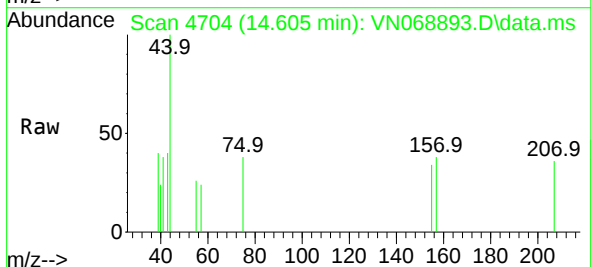
Instrument :
MSVOA_N
ClientSampleId :
2186-2187

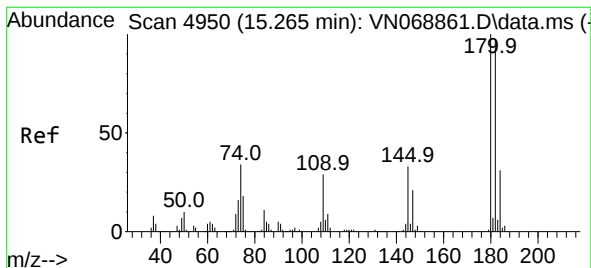
Tgt Ion:146 Resp: 1784
Ion Ratio Lower Upper
146 100
111 48.3 22.0 66.0
148 69.5 32.1 96.5



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.366 ug/l
RT: 14.605 min Scan# 4704
Delta R.T. -0.000 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

Tgt Ion: 75 Resp: 366
Ion Ratio Lower Upper
75 100
155 70.5 38.8 116.4
157 113.9 50.2 150.6

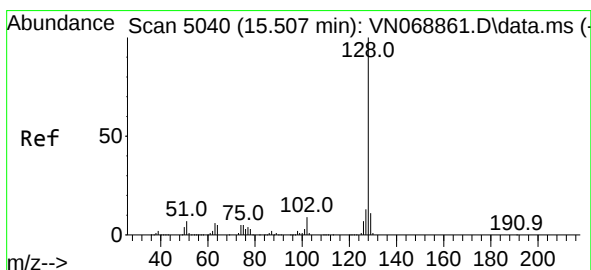
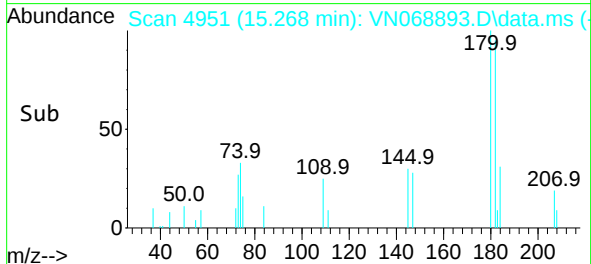
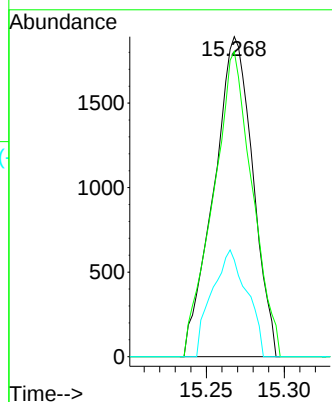
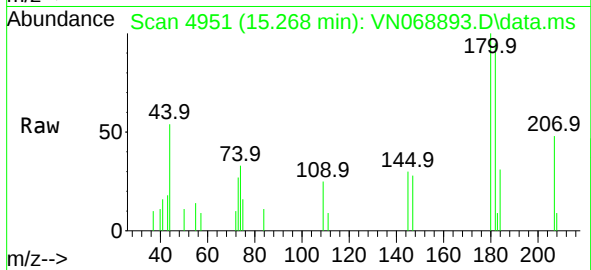




#93
1,2,4-Trichlorobenzene
Concen: 3.463 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

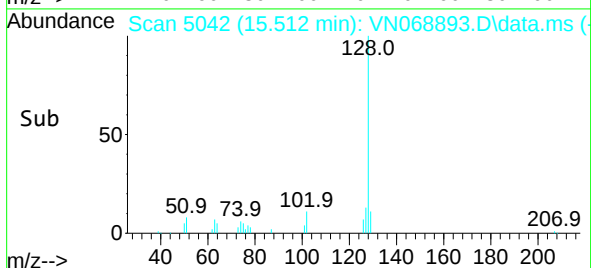
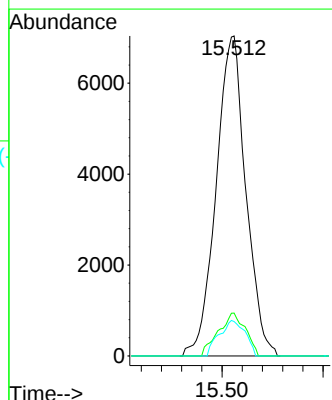
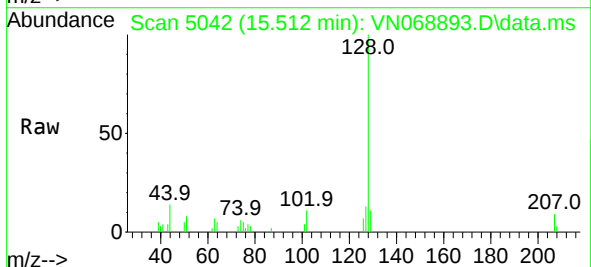
Instrument :
MSVOA_N
ClientSampleId :
2186-2187

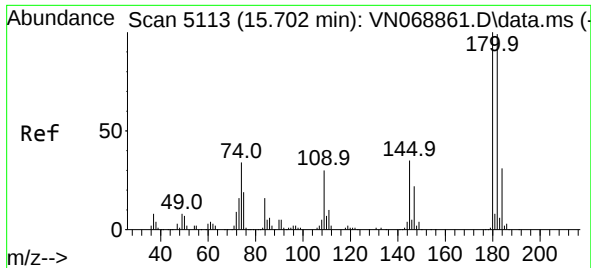
Tgt Ion:180 Resp: 3289
Ion Ratio Lower Upper
180 100
182 95.4 47.9 143.7
145 29.8 16.4 49.2



#95
Naphthalene
Concen: 5.140 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068893.D
Acq: 13 Oct 2021 13:16

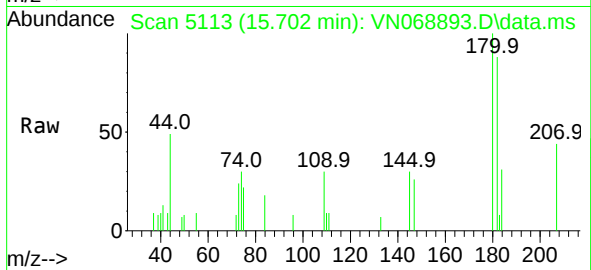
Tgt Ion:128 Resp: 14369
Ion Ratio Lower Upper
128 100
127 12.2 10.5 15.7
129 9.7 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 3.603 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. 0.000 min
 Lab File: VN068893.D
 Acq: 13 Oct 2021 13:16

Instrument :
 MSVOA_N
 ClientSampled :
 2186-2187



Tgt Ion:	180	Resp:	3947
Ion Ratio	Lower	Upper	
180	100		
182	91.1	48.1	144.3
145	30.4	17.4	52.2

