

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070176.D
 Acq On : 17 Dec 2021 20:26
 Operator : JC/MD
 Sample : M5114-03 100X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 18 05:48:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

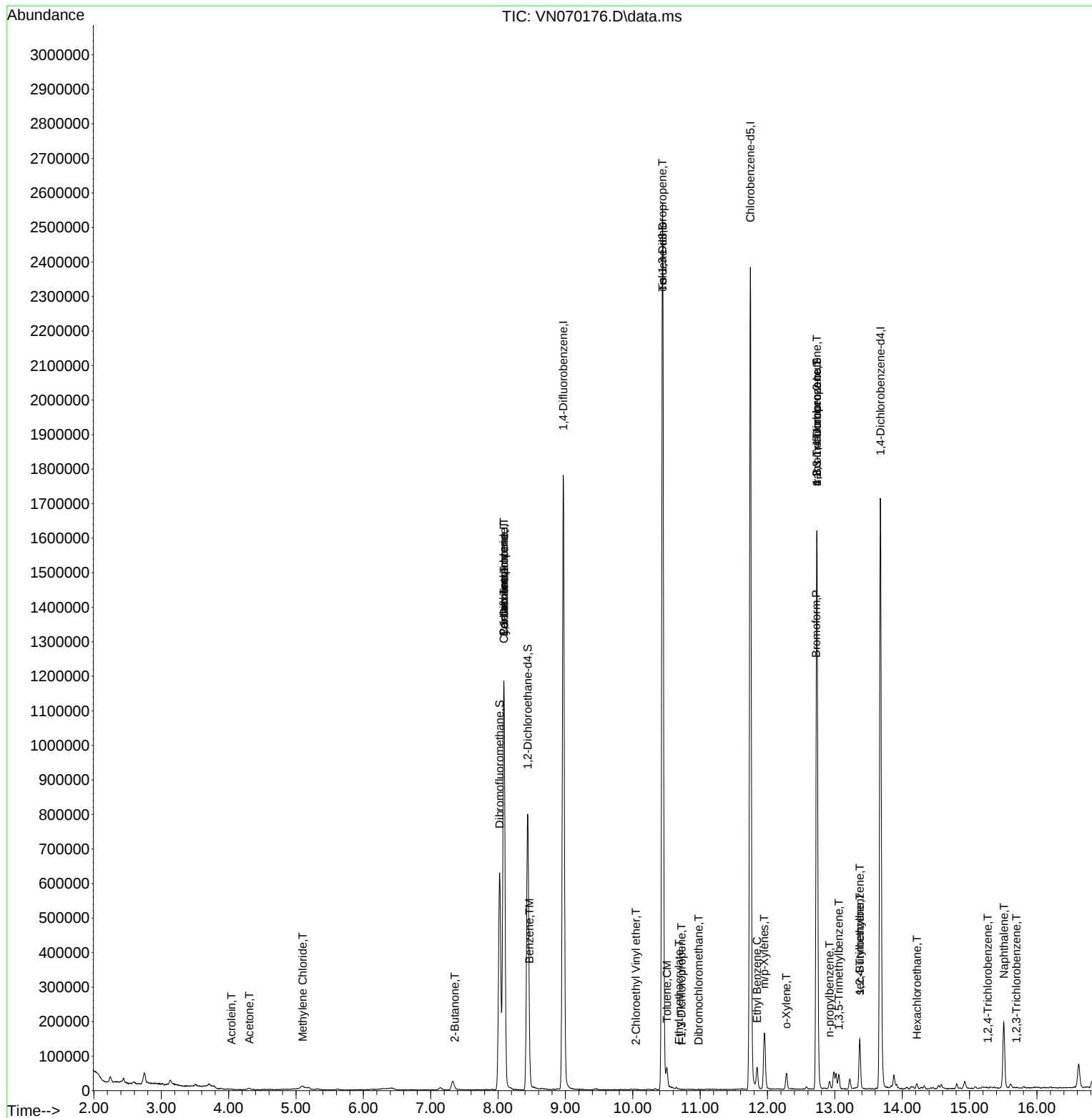
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

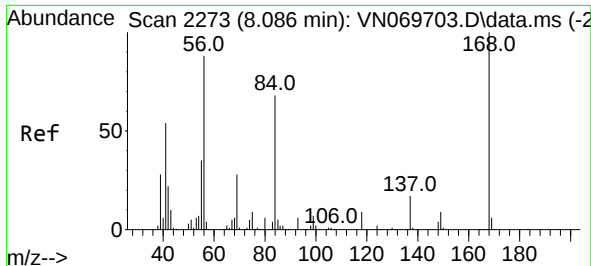
Internal Standards						
1) Pentafluorobenzene	8.086	168	886154	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1488983	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	1319774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	452753	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	705389	51.555	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 103.120%			
35) Dibromofluoromethane	8.024	113	453425	48.616	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.240%			
50) Toluene-d8	10.443	98	1750170	46.734	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 93.460%			
62) 4-Bromofluorobenzene	12.734	95	569451	41.973	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 83.940%			
Target Compounds					Qvalue	
13) Acrolein	4.041	56	1114	0.506	ug/l	93
16) Acetone	4.309	43	6528	0.793	ug/l #	69
20) Methylene Chloride	5.098	84	2722	0.249	ug/l #	68
25) 2-Butanone	7.356	43	3234	0.289	ug/l #	48
31) Cyclohexane	8.088	56	23234	1.220	ug/l #	47
36) 1,1-Dichloropropene	8.086	75	74513	5.257	ug/l #	49
38) Carbon Tetrachloride	8.086	117	88930	6.398	ug/l #	16
40) Benzene	8.464	78	10142	0.234	ug/l	98
52) Toluene	10.505	92	20171	0.763	ug/l	98
53) t-1,3-Dichloropropene	10.725	75	71	2.798	ug/l	99
54) cis-1,3-Dichloropropene	10.440	75	502	2.025	ug/l #	1
56) Ethyl methacrylate	10.687	69	491	2.302	ug/l #	67
58) 2-Chloroethyl Vinyl ether	10.049	63	780	18.522	ug/l #	45
60) Dibromochloromethane	10.980	129	25	2.378	ug/l #	11
67) Ethyl Benzene	11.846	91	46088	0.948	ug/l	96
68) m/p-Xylenes	11.953	106	53249	3.007	ug/l	93
69) o-Xylene	12.280	106	13058	0.732	ug/l	95
71) Bromoform	12.723	173	881	2.834	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	310839	23.940	ug/l #	1
78) n-propylbenzene	12.921	91	17997	0.401	ug/l	98
80) 1,3,5-Trimethylbenzene	13.061	105	19649	0.606	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.734	75	310839	76.051	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.369	105	80647	2.612	ug/l	96
85) sec-Butylbenzene	13.369	105	80647	2.071	ug/l #	56
90) Hexachloroethane	14.219	117	1091	0.204	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.271	180	285	2.914	ug/l	75
95) Naphthalene	15.509	128	171718	11.127	ug/l	99
96) 1,2,3-Trichlorobenzene	15.694	180	196	2.461	ug/l #	48

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

Instrument :
MSVOA_N
ClientSampleId :

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MSVOA_N
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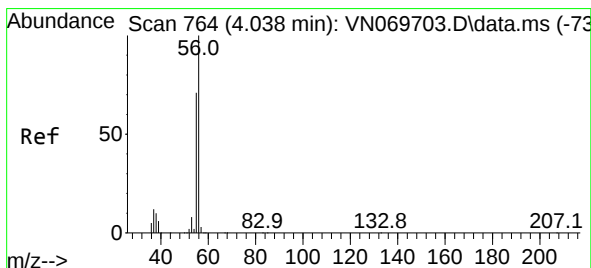
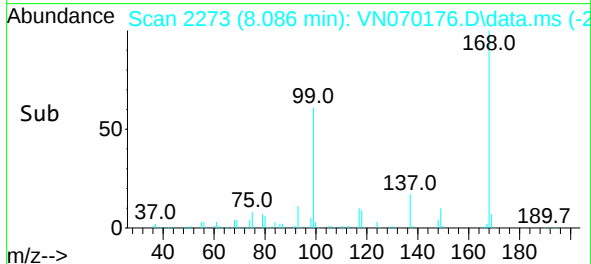
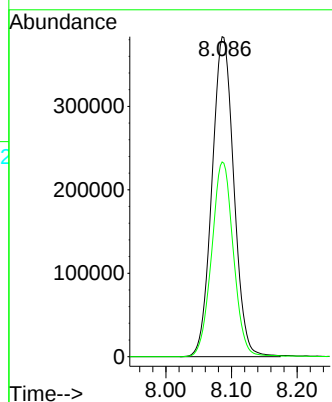
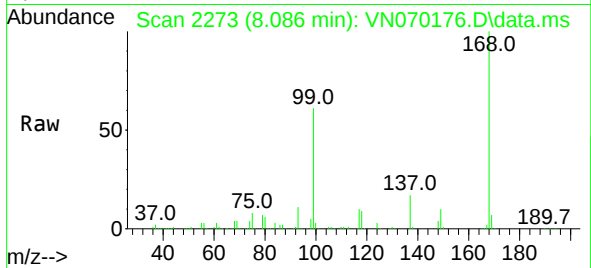




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

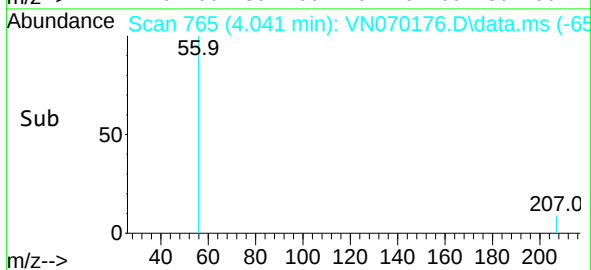
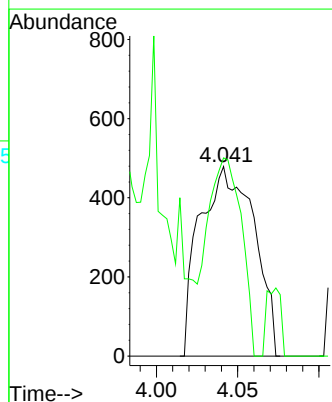
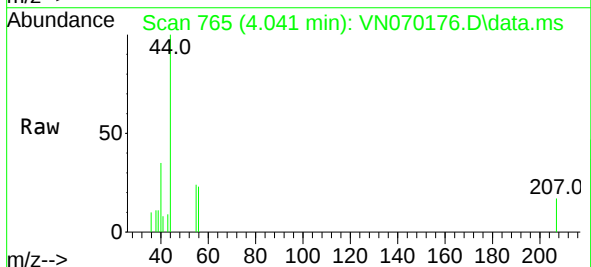
Instrument :
MSVOA_N
ClientSampleId :

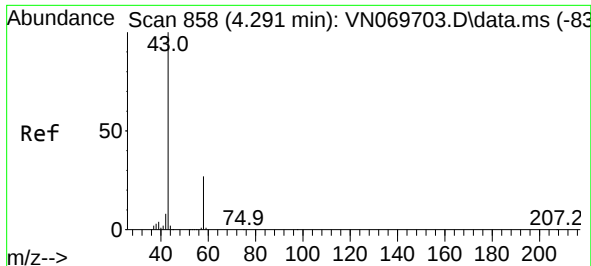
Tgt Ion:168 Resp: 886154
Ion Ratio Lower Upper
168 100
99 60.8 41.3 61.9



#13
Acrolein
Concen: 0.506 ug/l
RT: 4.041 min Scan# 765
Delta R.T. 0.003 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion: 56 Resp: 1114
Ion Ratio Lower Upper
56 100
55 64.7 56.6 85.0

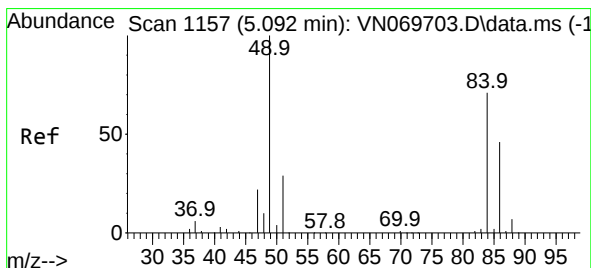
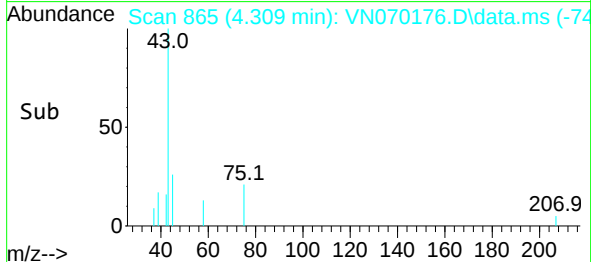
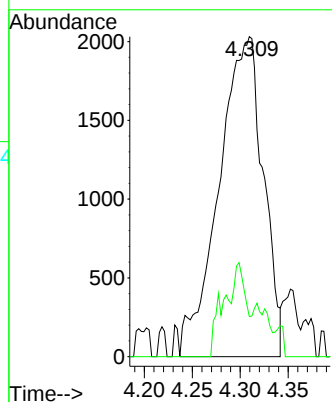
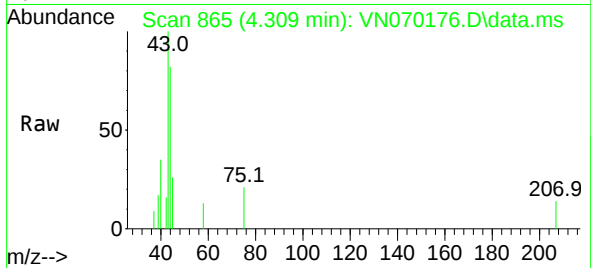




#16
Acetone
Concen: 0.793 ug/l
RT: 4.309 min Scan# 80
Delta R.T. 0.019 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

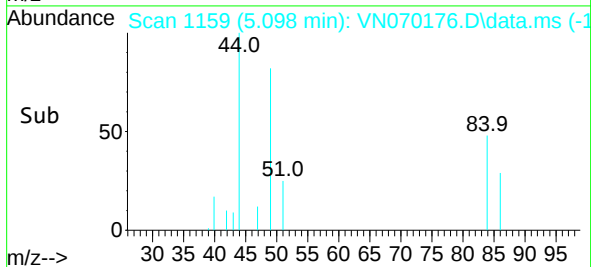
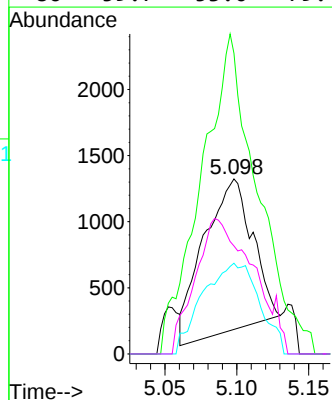
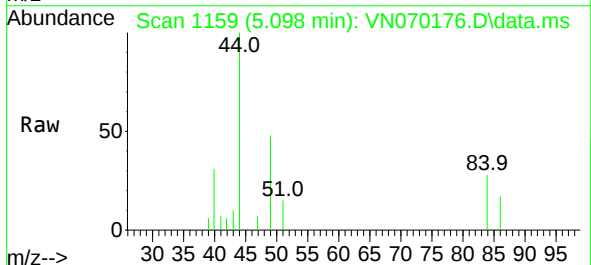
Instrument :
MSVOA_N
ClientSampleId :

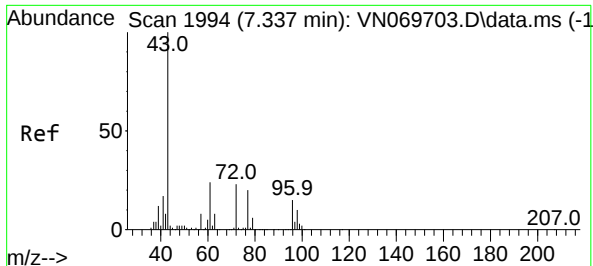
Tgt Ion: 43 Resp: 6528
Ion Ratio Lower Upper
43 100
58 12.6 23.1 34.7#



#20
Methylene Chloride
Concen: 0.249 ug/l
RT: 5.098 min Scan# 1159
Delta R.T. 0.006 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion: 84 Resp: 2722
Ion Ratio Lower Upper
84 100
49 168.7 93.5 140.3#
51 51.2 29.4 44.2#
86 59.7 53.0 79.4

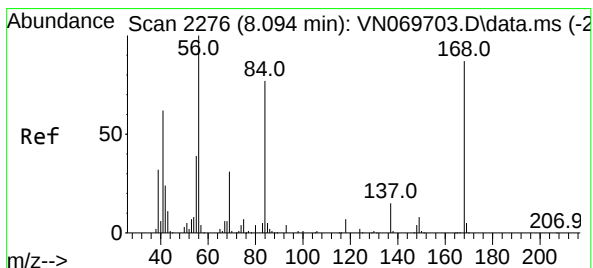
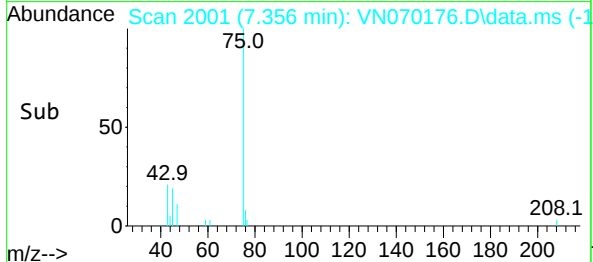
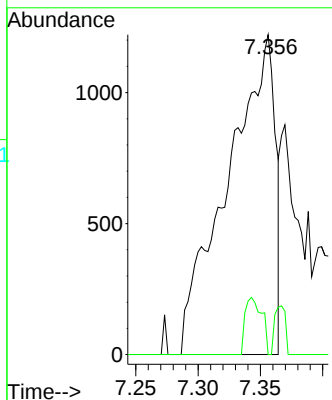
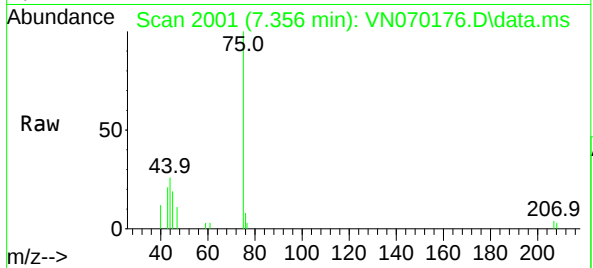




#25
2-Butanone
Concen: 0.289 ug/l
RT: 7.356 min Scan# 20
Delta R.T. 0.019 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

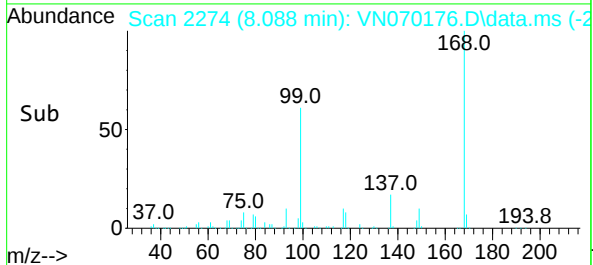
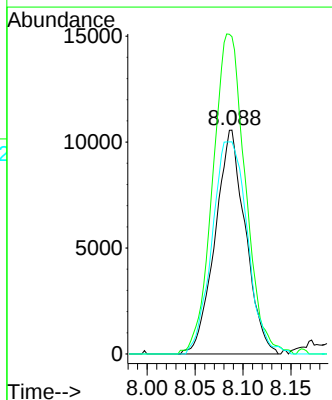
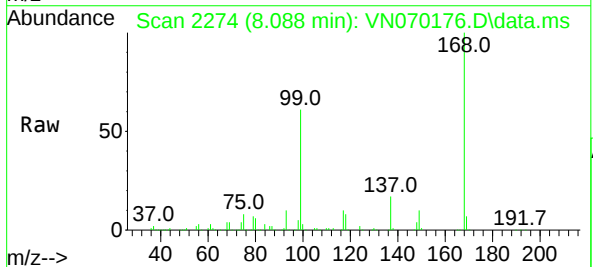
Instrument :
MSVOA_N
ClientSampleId :

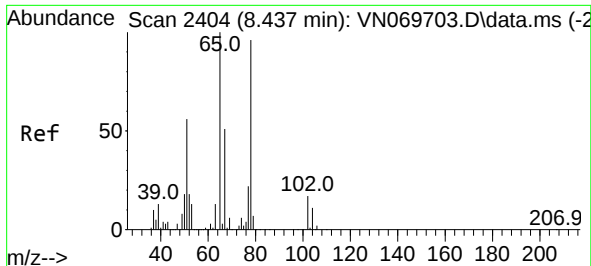
Tgt Ion: 43 Resp: 3234
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#



#31
Cyclohexane
Concen: 1.220 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.005 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion: 56 Resp: 23234
Ion Ratio Lower Upper
56 100
69 141.8 27.1 40.7#
84 94.8 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 51.555 ug/l

RT: 8.440 min Scan# 2404

Delta R.T. 0.003 min

Lab File: VN070176.D

Acq: 17 Dec 2021 20:26

Instrument :

MSVOA_N

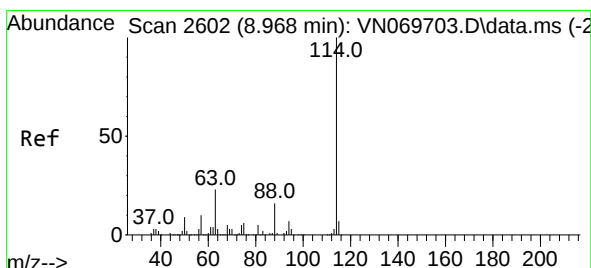
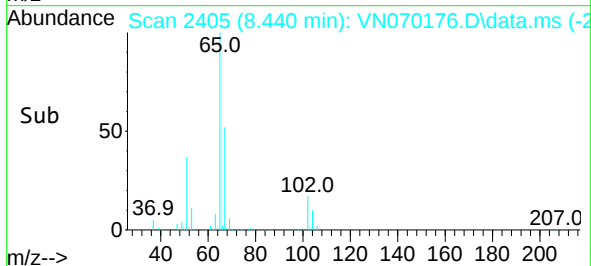
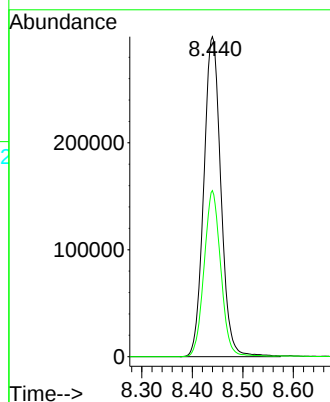
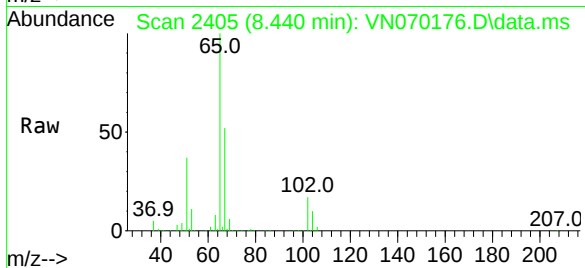
ClientSampleId :

Tgt Ion: 65 Resp: 705389

Ion Ratio Lower Upper

65 100

67 50.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN070176.D

Acq: 17 Dec 2021 20:26

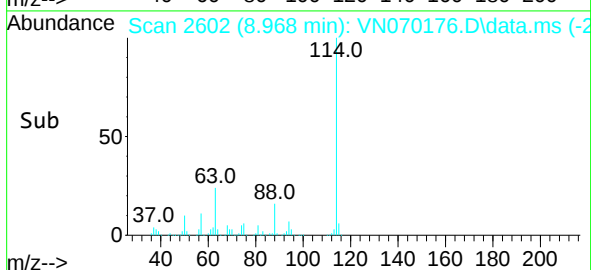
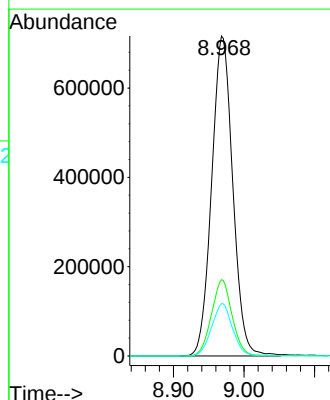
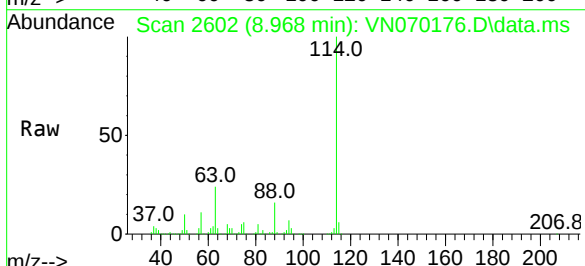
Tgt Ion: 114 Resp: 1488983

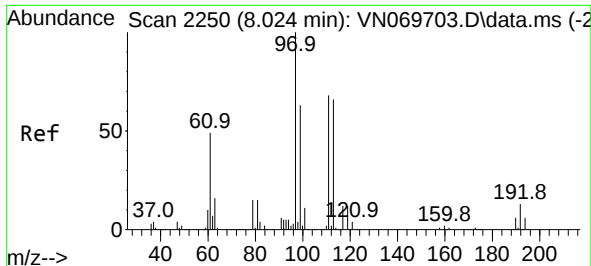
Ion Ratio Lower Upper

114 100

63 23.9 0.0 37.8

88 16.3 0.0 27.4

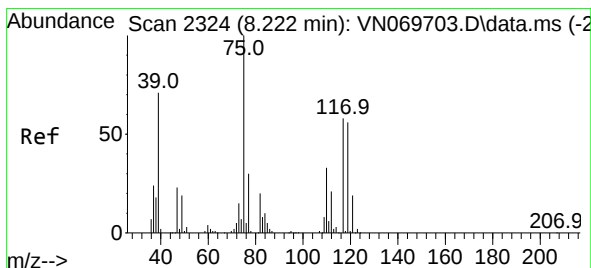
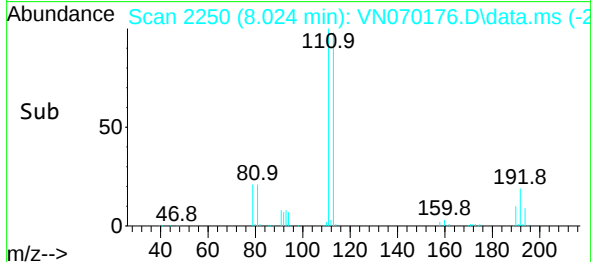
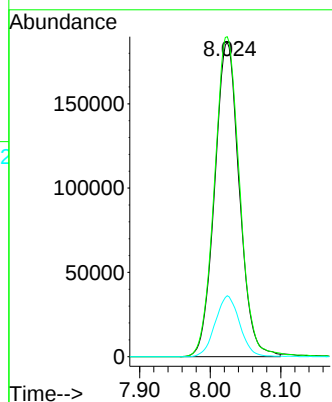
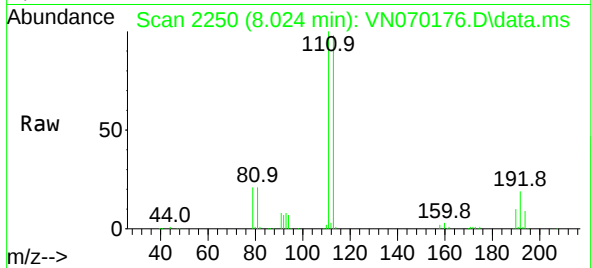




#35
Dibromofluoromethane
Concen: 48.616 ug/l
RT: 8.024 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

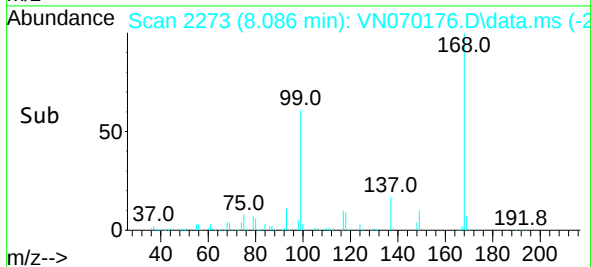
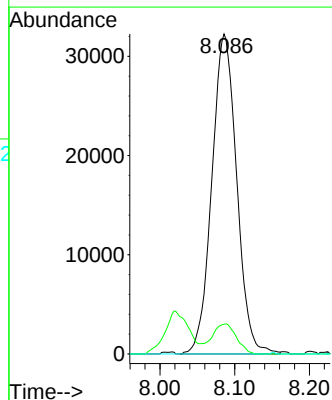
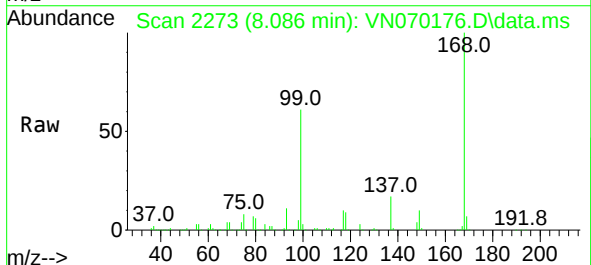
Instrument :
MSVOA_N
ClientSampleId :

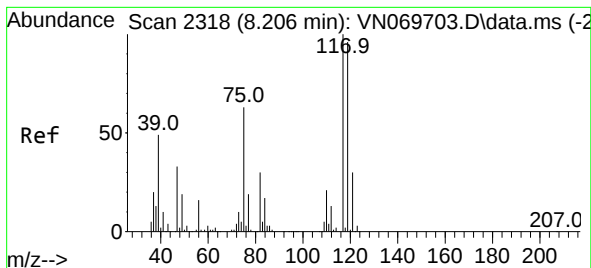
Tgt Ion:113 Resp: 453425
Ion Ratio Lower Upper
113 100
111 104.1 82.2 123.2
192 19.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.257 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion: 75 Resp: 74513
Ion Ratio Lower Upper
75 100
110 9.0 18.4 55.2#
77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 6.398 ug/l

RT: 8.086 min Scan# 21

Delta R.T. -0.121 min

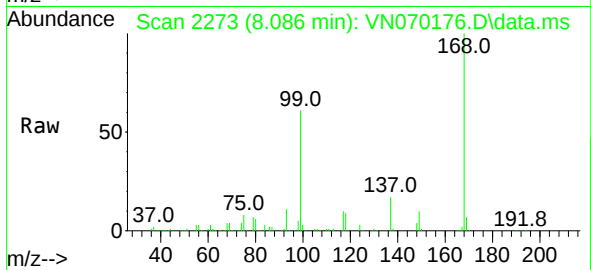
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Acq: 17 Dec 2021 20:26

Instrument :

MSVOA_N

ClientSampleId :



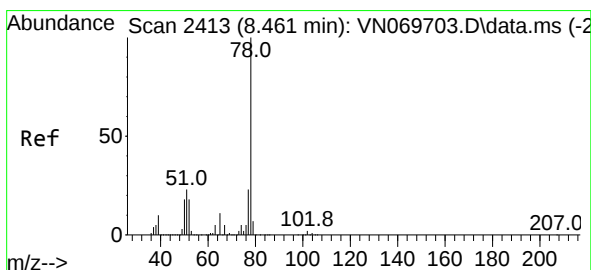
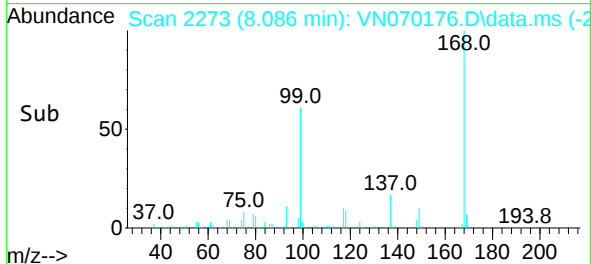
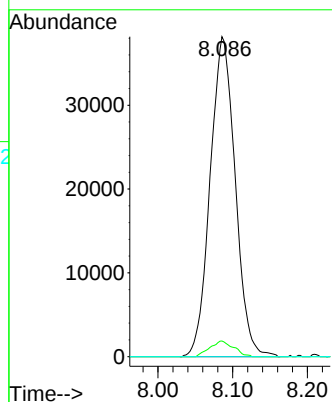
Tgt Ion:117 Resp: 88930

Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

121 0.0 24.2 36.2#



#40

Benzene

Concen: 0.234 ug/l

RT: 8.464 min Scan# 2414

Delta R.T. 0.003 min

Lab File: VN070176.D

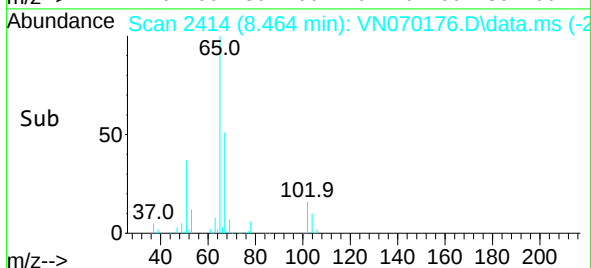
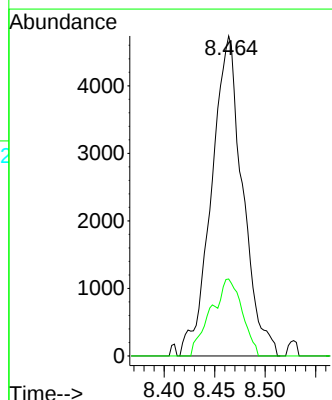
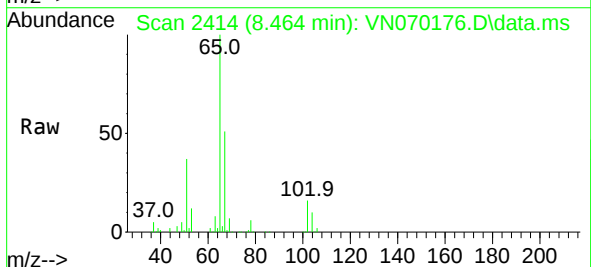
Acq: 17 Dec 2021 20:26

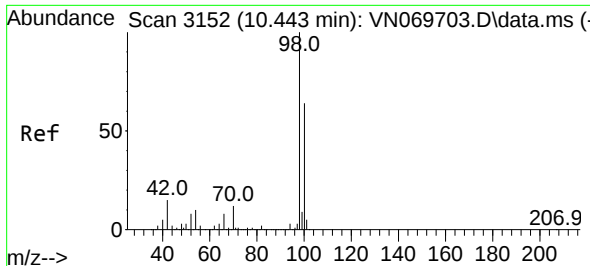
Tgt Ion: 78 Resp: 10142

Ion Ratio Lower Upper

78 100

77 24.1 18.6 27.8

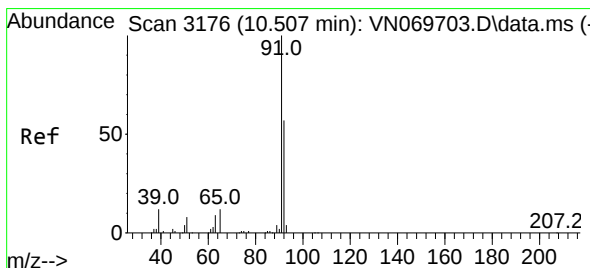
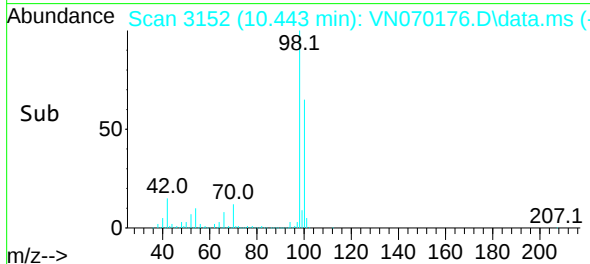
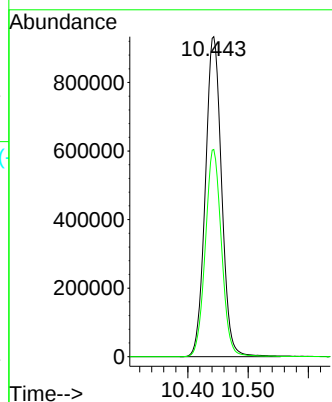
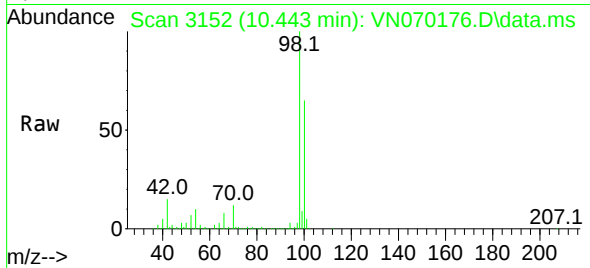




#50
Toluene-d8
Concen: 46.734 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

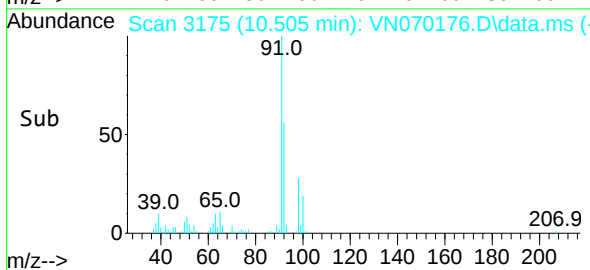
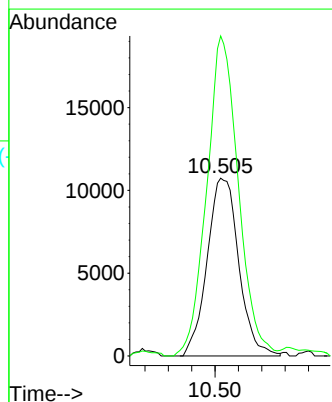
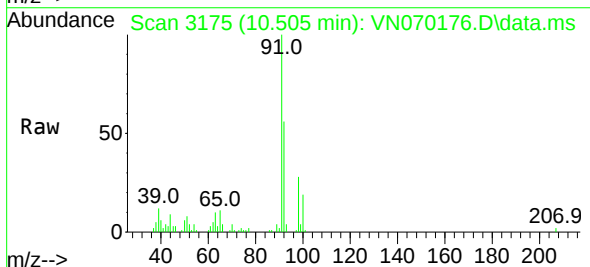
Instrument :
MSVOA_N
ClientSampleId :

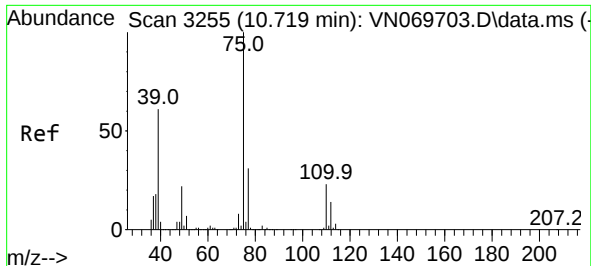
Tgt Ion: 98 Resp: 1750170
Ion Ratio Lower Upper
98 100
100 64.3 50.4 75.6



#52
Toluene
Concen: 0.763 ug/l
RT: 10.505 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

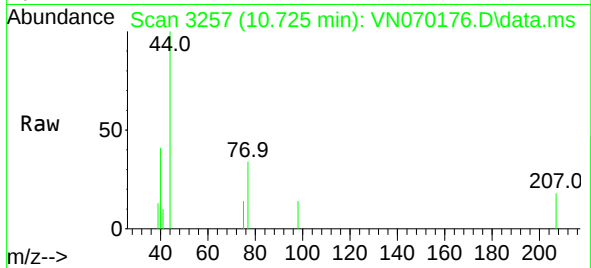
Tgt Ion: 92 Resp: 20171
Ion Ratio Lower Upper
92 100
91 179.6 142.0 213.0



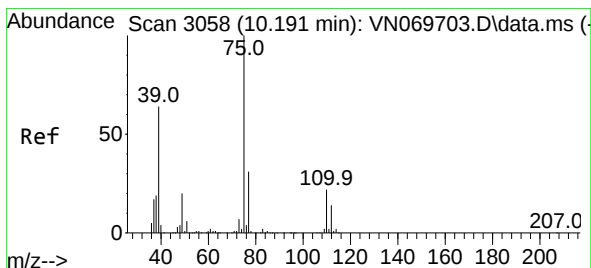
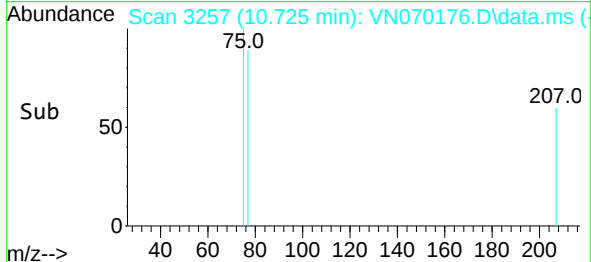
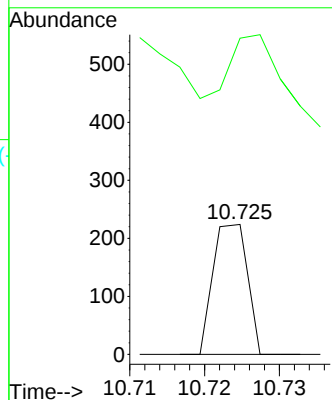


#53
 t-1,3-Dichloropropene
 Concen: 2.798 ug/l
 RT: 10.725 min Scan# 3151
 Delta R.T. 0.006 min
 Lab File: VN070176.D
 Acq: 17 Dec 2021 20:26

Instrument :
 MSVOA_N
 ClientSampleId :

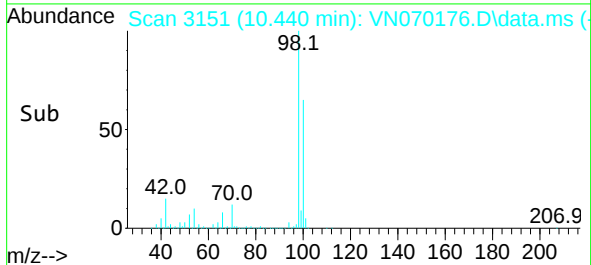
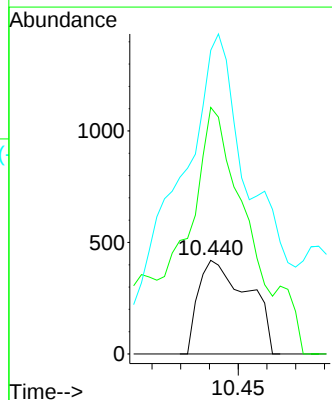
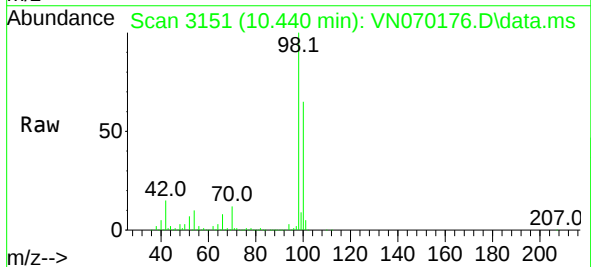


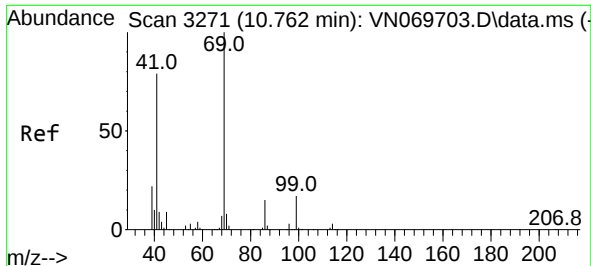
Tgt Ion: 75 Resp: 71
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.6 38.4



#54
 cis-1,3-Dichloropropene
 Concen: 2.025 ug/l
 RT: 10.440 min Scan# 3151
 Delta R.T. 0.249 min
 Lab File: VN070176.D
 Acq: 17 Dec 2021 20:26

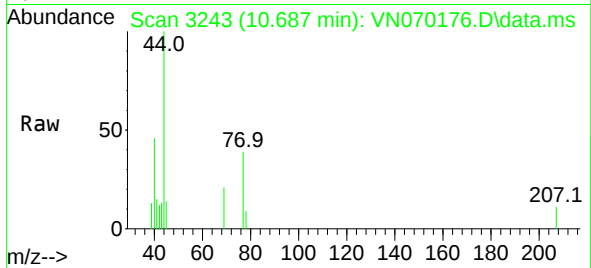
Tgt Ion: 75 Resp: 502
 Ion Ratio Lower Upper
 75 100
 77 191.0 26.4 39.6#
 39 205.0 42.5 63.7#



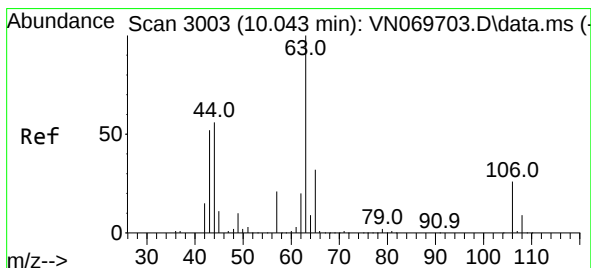
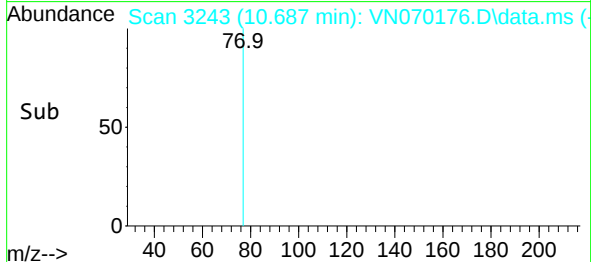
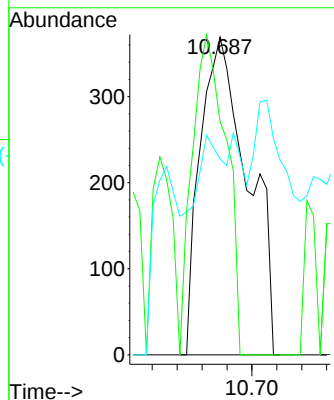


#56
Ethyl methacrylate
Concen: 2.302 ug/l
RT: 10.687 min Scan# 31
Delta R.T. -0.075 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Instrument :
MSVOA_N
ClientSampleId :

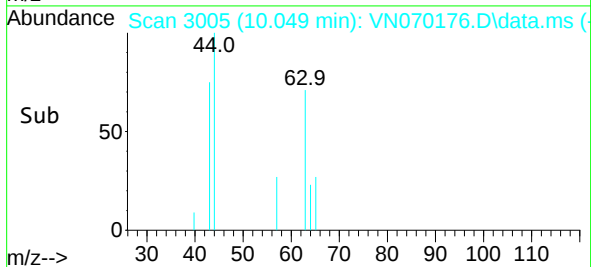
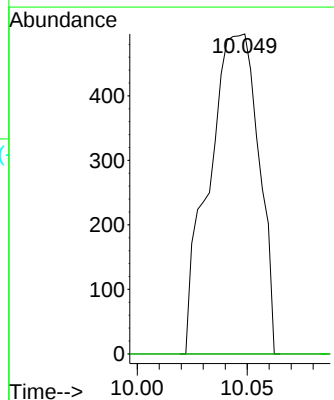
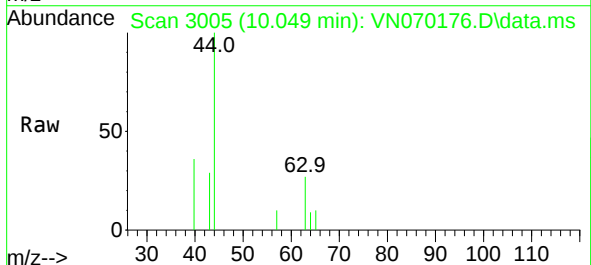


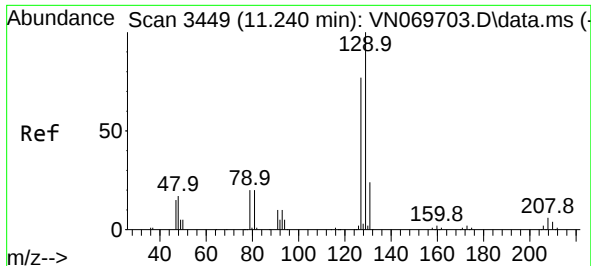
Tgt Ion: 69 Resp: 491
Ion Ratio Lower Upper
69 100
41 71.5 51.4 77.0
39 0.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.522 ug/l
RT: 10.049 min Scan# 3005
Delta R.T. 0.006 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

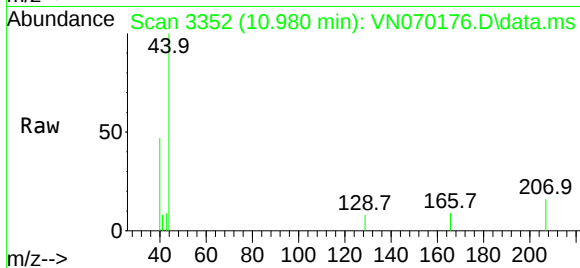
Tgt Ion: 63 Resp: 780
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



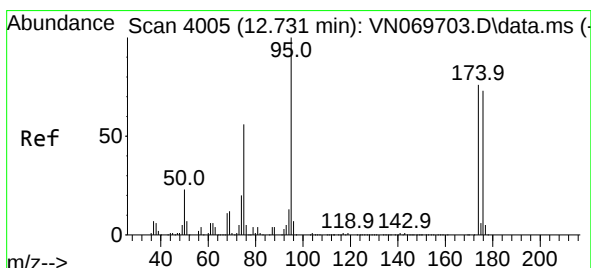
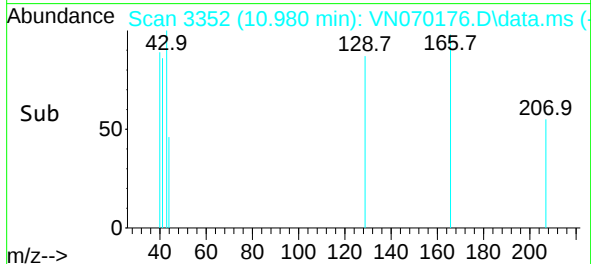
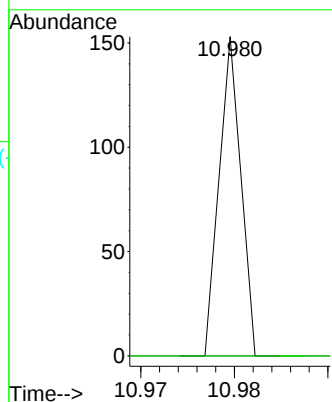


#60
Dibromochloromethane
Concen: 2.378 ug/l
RT: 10.980 min Scan# 31
Delta R.T. -0.260 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Instrument :
MSVOA_N
ClientSampleId :

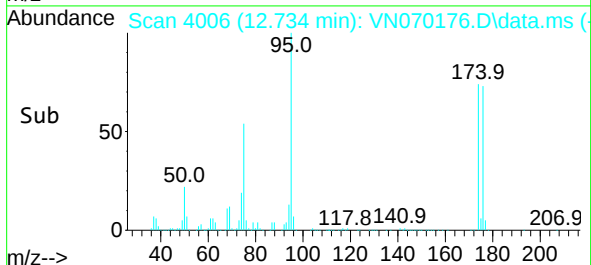
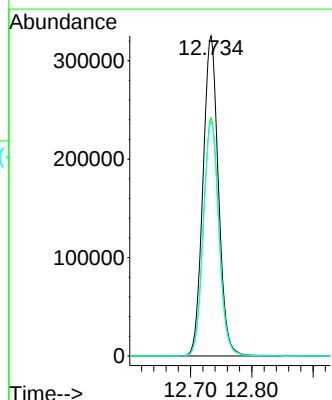
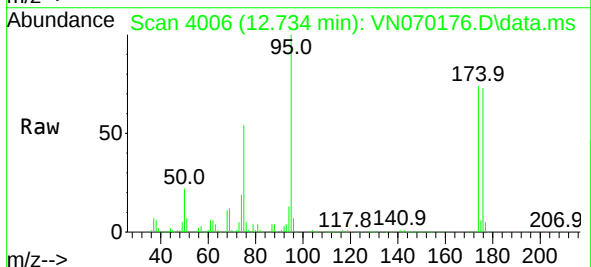


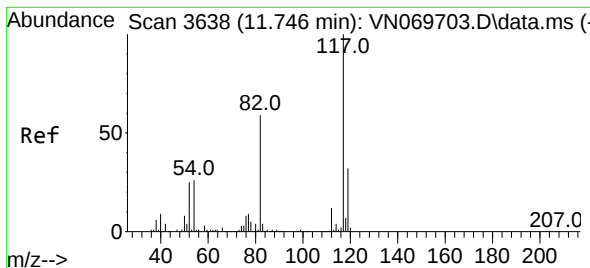
Tgt Ion:129 Resp: 25
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 41.973 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion: 95 Resp: 569451
Ion Ratio Lower Upper
95 100
174 75.5 0.0 187.2
176 73.4 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.747 min Scan# 3

Delta R.T. 0.001 min

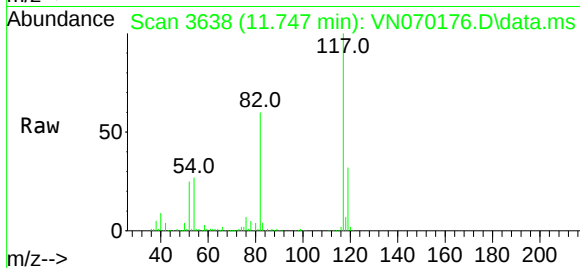
Lab File: VN070176.D

Acq: 17 Dec 2021 20:26

Instrument :

MSVOA_N

ClientSampleId :



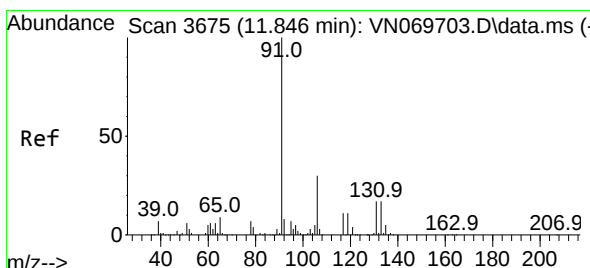
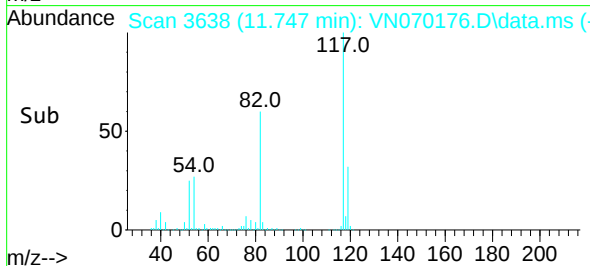
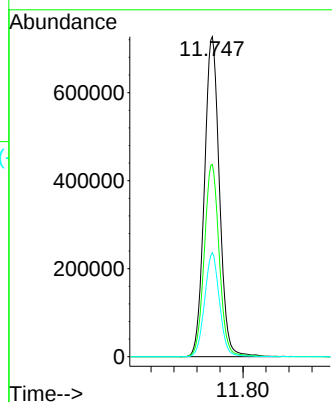
Tgt Ion:117 Resp: 1319774

Ion Ratio Lower Upper

117 100

82 60.1 42.4 63.6

119 32.5 25.4 38.2



#67

Ethyl Benzene

Concen: 0.948 ug/l

RT: 11.846 min Scan# 3675

Delta R.T. 0.000 min

Lab File: VN070176.D

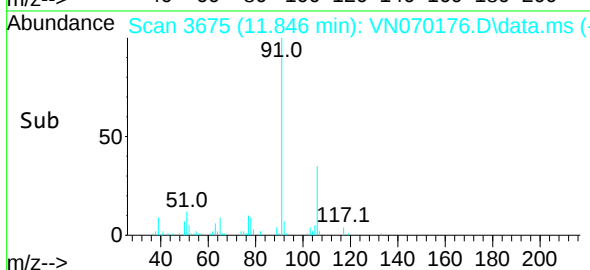
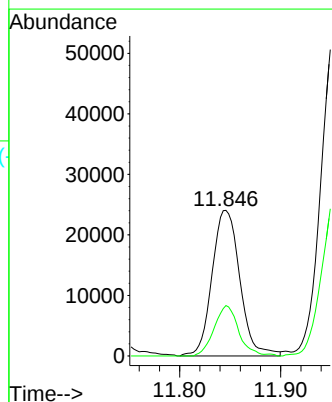
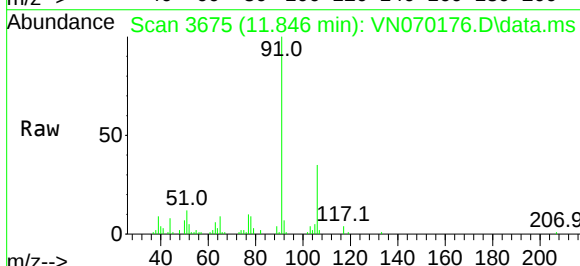
Acq: 17 Dec 2021 20:26

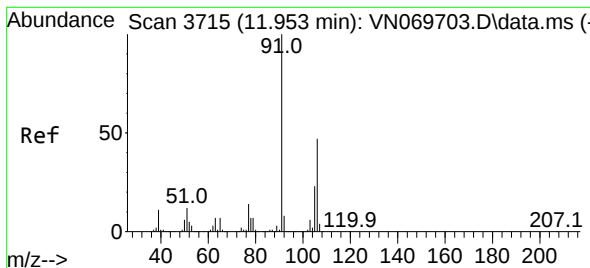
Tgt Ion: 91 Resp: 46088

Ion Ratio Lower Upper

91 100

106 34.6 25.7 38.5

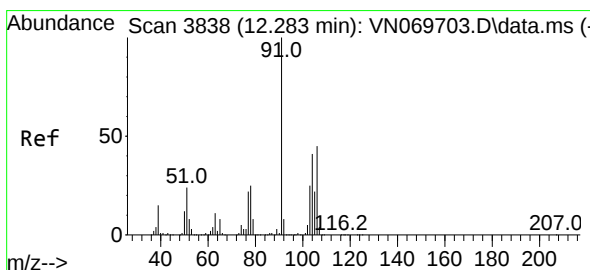
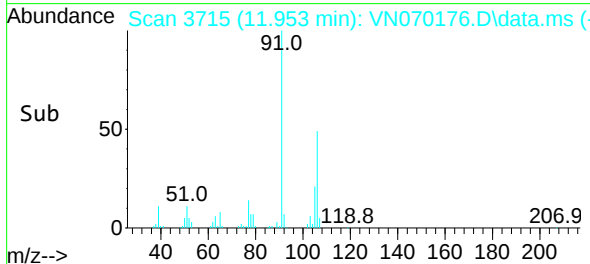
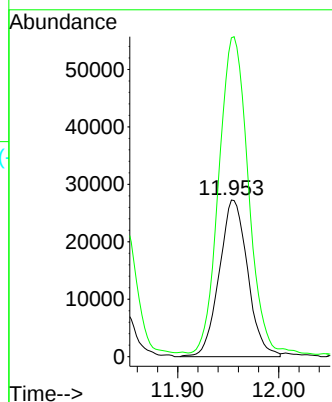
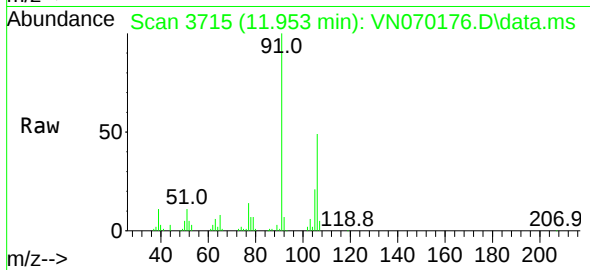




#68
m/p-Xylenes
Concen: 3.007 ug/l
RT: 11.953 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

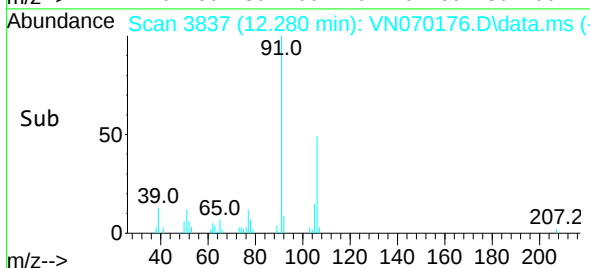
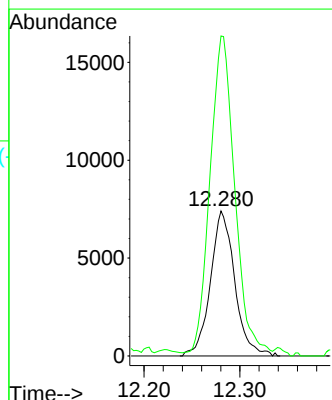
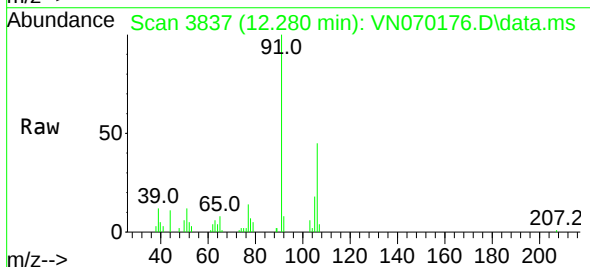
Instrument :
MSVOA_N
ClientSampleId :

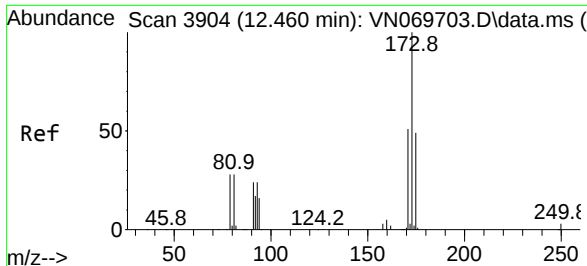
Tgt Ion:106 Resp: 53249
Ion Ratio Lower Upper
106 100
91 211.8 160.6 240.8



#69
o-Xylene
Concen: 0.732 ug/l
RT: 12.280 min Scan# 3837
Delta R.T. -0.003 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion:106 Resp: 13058
Ion Ratio Lower Upper
106 100
91 219.3 105.8 317.3

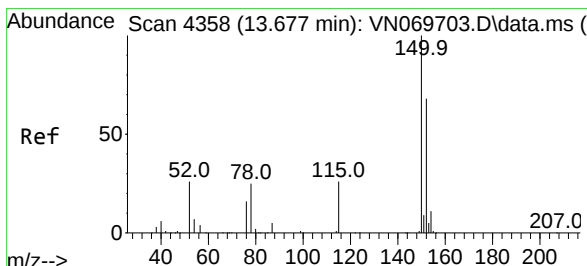
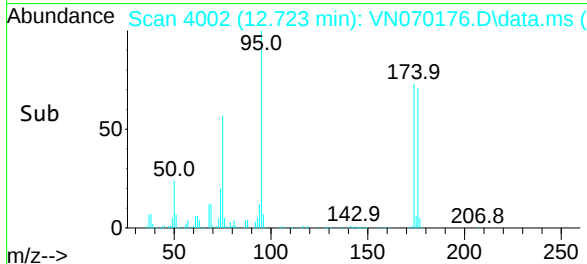
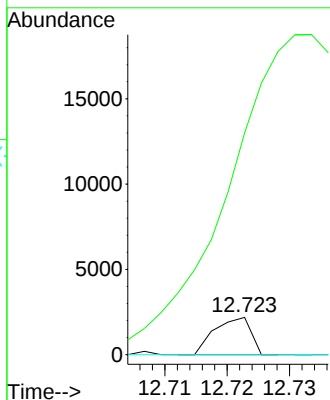
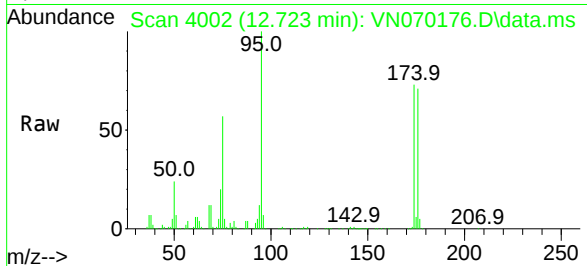




#71
Bromoform
Concen: 2.834 ug/l
RT: 12.723 min Scan# 4002
Delta R.T. 0.263 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

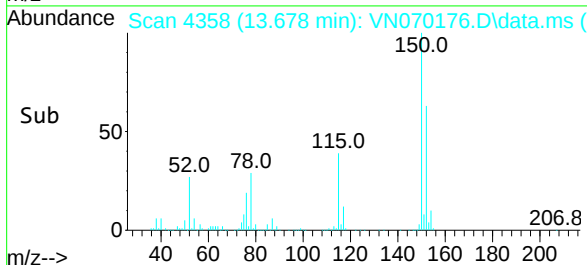
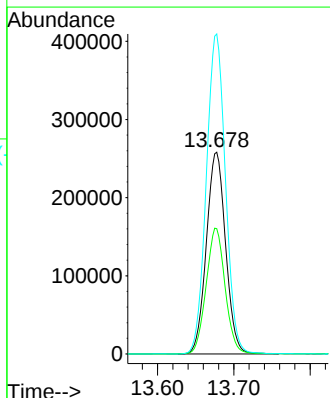
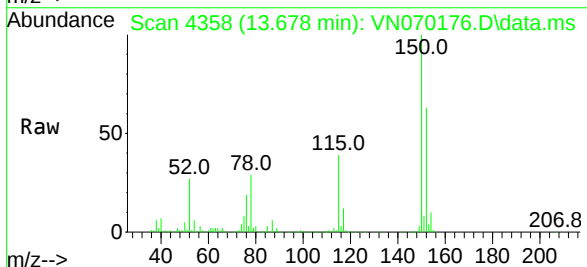
Instrument :
MSVOA_N
ClientSampleId :

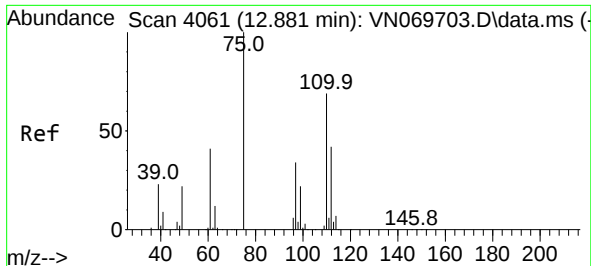
Tgt Ion:173 Resp: 881
Ion Ratio Lower Upper
173 100
175 3457.2 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion:152 Resp: 452753
Ion Ratio Lower Upper
152 100
115 61.7 27.5 82.5
150 157.8 0.0 344.4

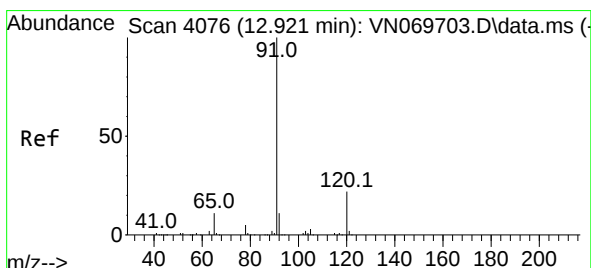
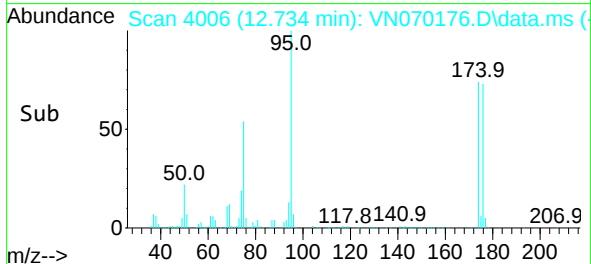
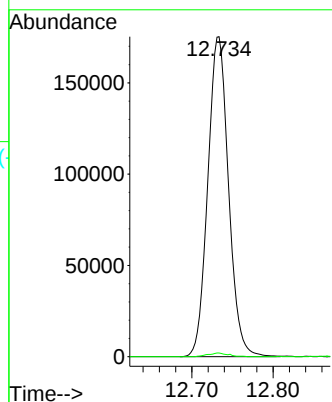
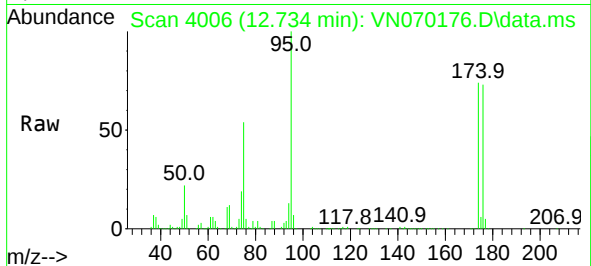




#76
1,2,3-Trichloropropane
Concen: 23.940 ug/l
RT: 12.734 min Scan# 4061
Delta R.T. -0.147 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

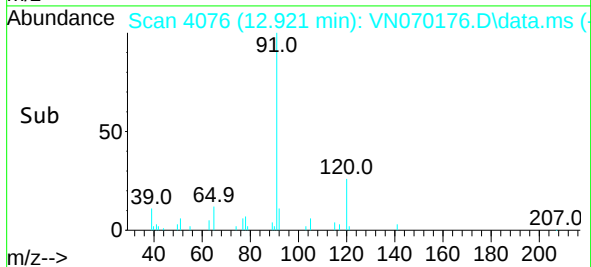
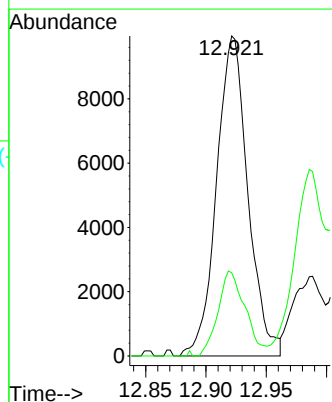
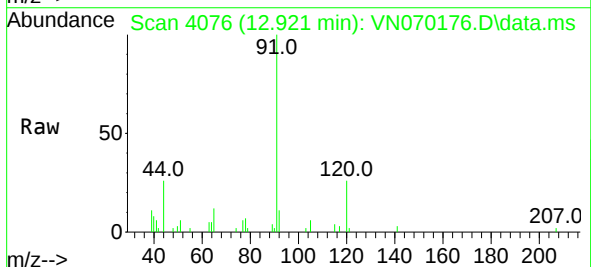
Instrument :
MSVOA_N
ClientSampleId :

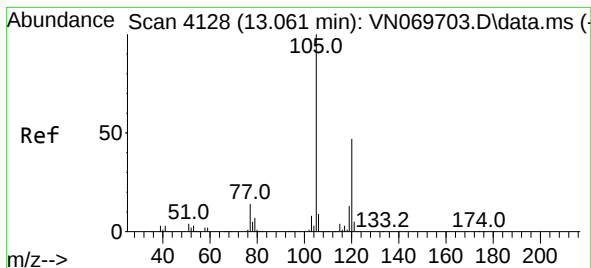
Tgt Ion: 75 Resp: 310839
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#78
n-propylbenzene
Concen: 0.401 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. 0.000 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion: 91 Resp: 17997
Ion Ratio Lower Upper
91 100
120 23.2 11.9 35.9





#80

1,3,5-Trimethylbenzene

Concen: 0.606 ug/l

RT: 13.061 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN070176.D

Acq: 17 Dec 2021 20:26

Instrument :

MSVOA_N

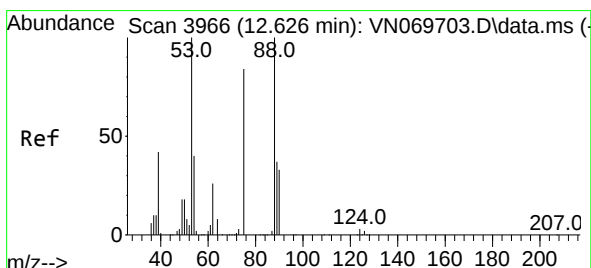
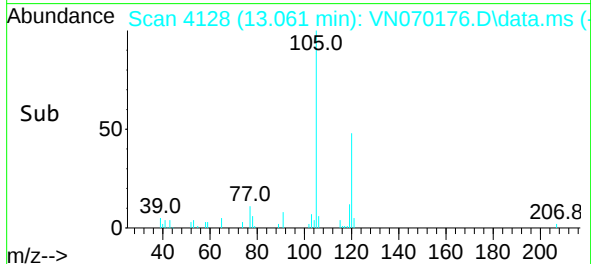
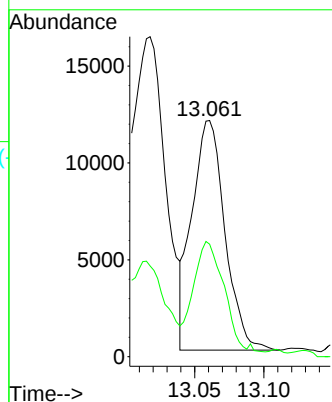
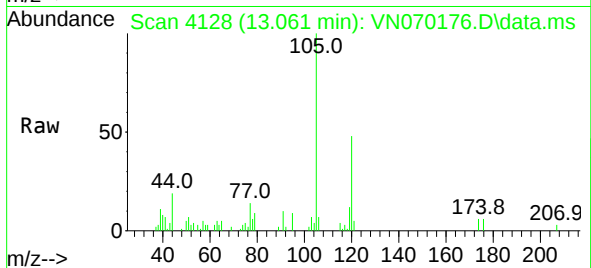
ClientSampleId :

Tgt Ion:105 Resp: 19649

Ion Ratio Lower Upper

105 100

120 44.8 24.6 73.6



#81

trans-1,4-Dichloro-2-butene

Concen: 76.051 ug/l

RT: 12.734 min Scan# 4006

Delta R.T. 0.108 min

Lab File: VN070176.D

Acq: 17 Dec 2021 20:26

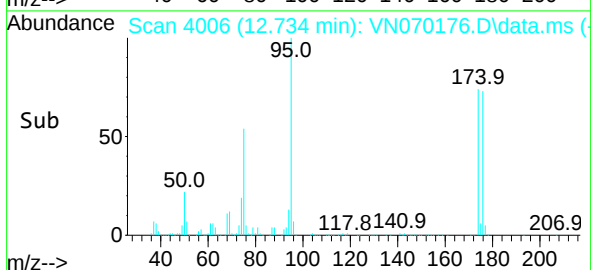
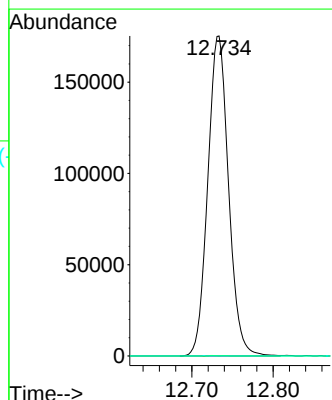
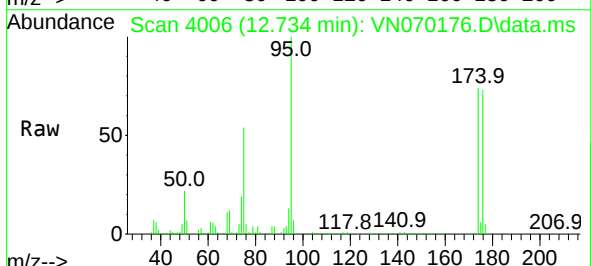
Tgt Ion: 75 Resp: 310839

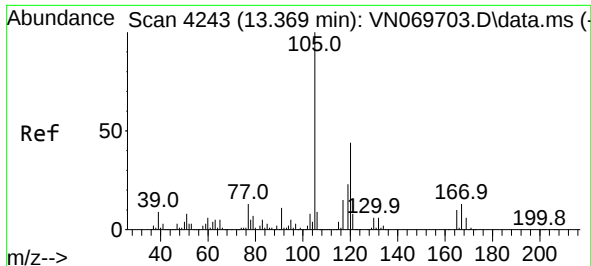
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 38.2 57.4#

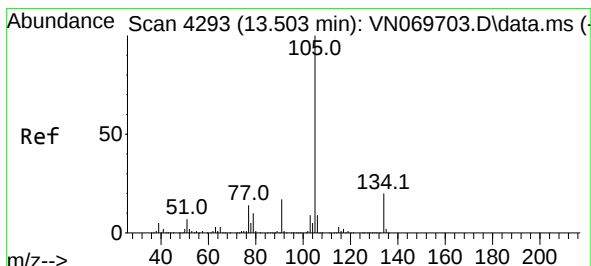
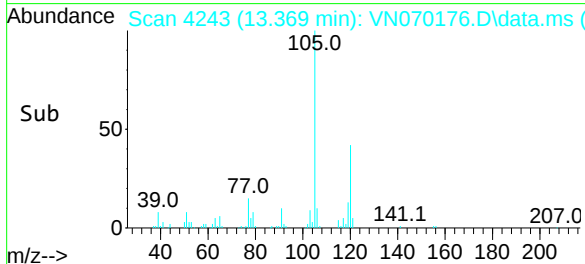
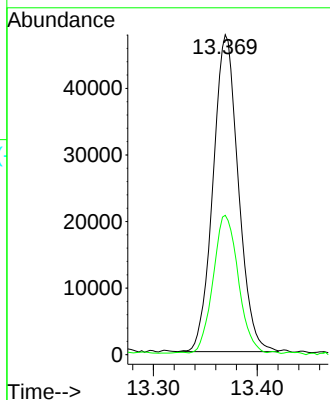
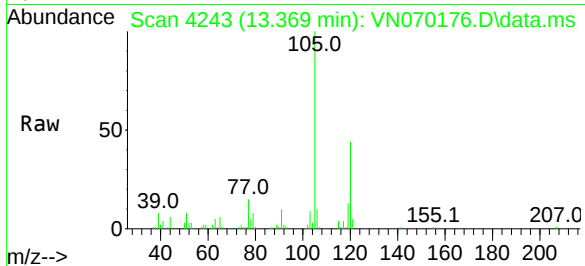




#84
1,2,4-Trimethylbenzene
Concen: 2.612 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

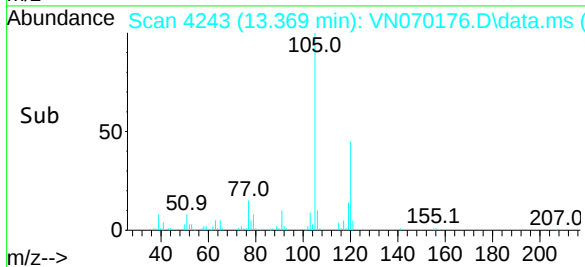
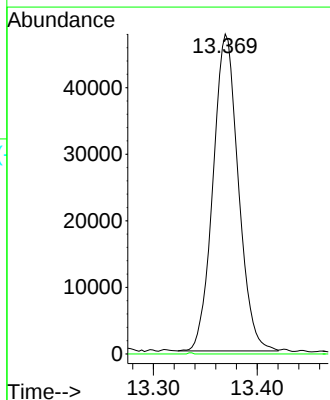
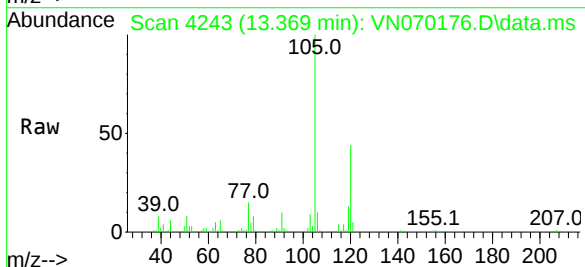
Instrument :
MSVOA_N
ClientSampleId :

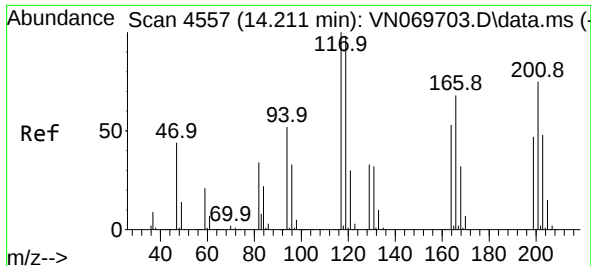
Tgt Ion:105 Resp: 80647
Ion Ratio Lower Upper
105 100
120 42.9 22.8 68.4



#85
sec-Butylbenzene
Concen: 2.071 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. -0.134 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion:105 Resp: 80647
Ion Ratio Lower Upper
105 100
134 0.0 10.4 31.1#

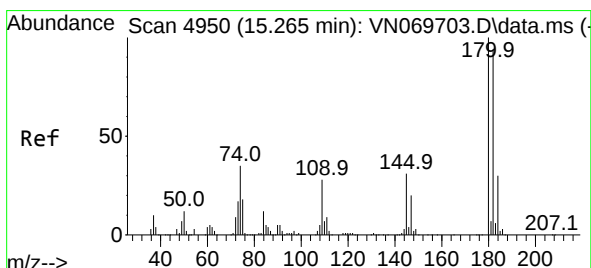
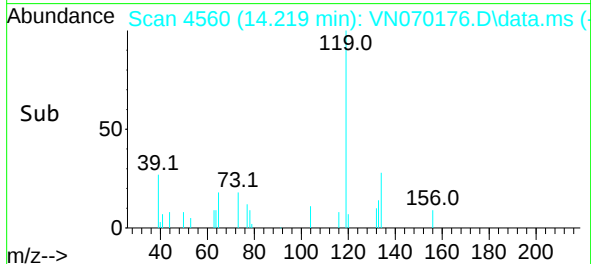
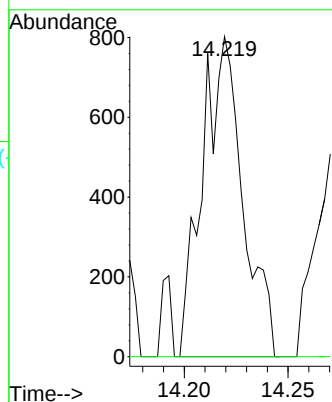
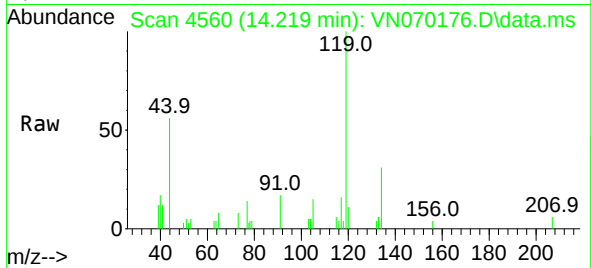




#90
Hexachloroethane
Concen: 0.204 ug/l
RT: 14.219 min Scan# 41
Delta R.T. 0.008 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

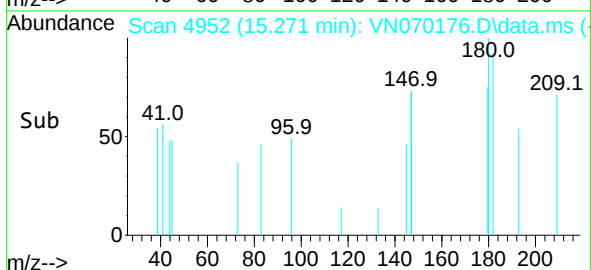
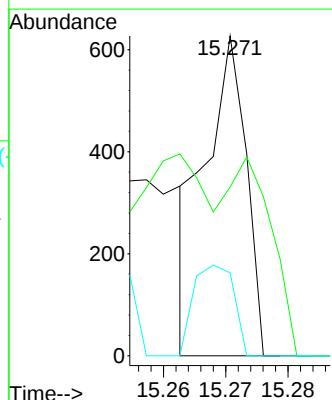
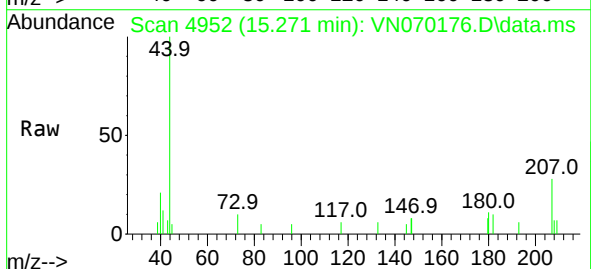
Instrument :
MSVOA_N
ClientSampleId :

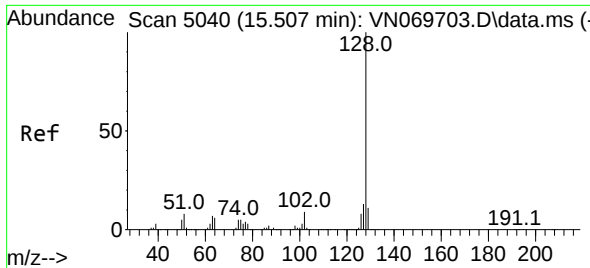
Tgt Ion:117 Resp: 1091
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#



#93
1,2,4-Trichlorobenzene
Concen: 2.914 ug/l
RT: 15.271 min Scan# 4952
Delta R.T. 0.006 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion:180 Resp: 285
Ion Ratio Lower Upper
180 100
182 127.4 48.3 144.9
145 28.1 14.5 43.5

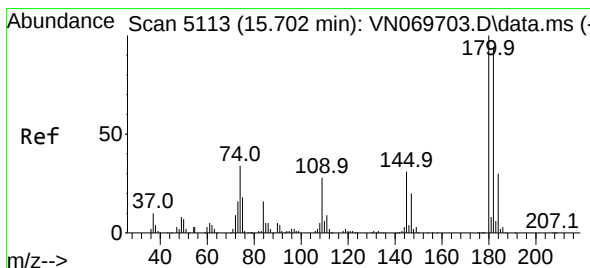
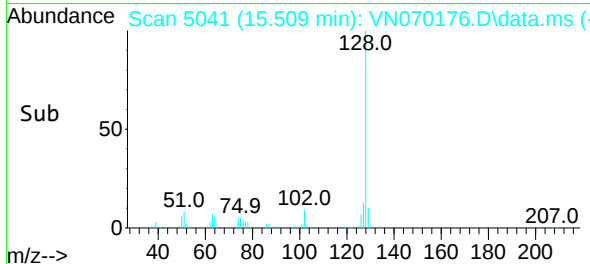
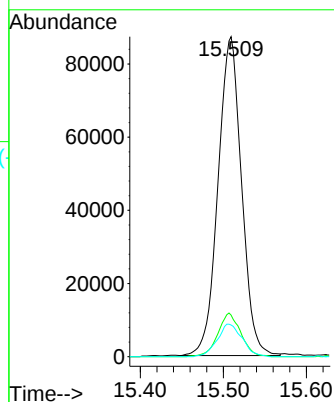
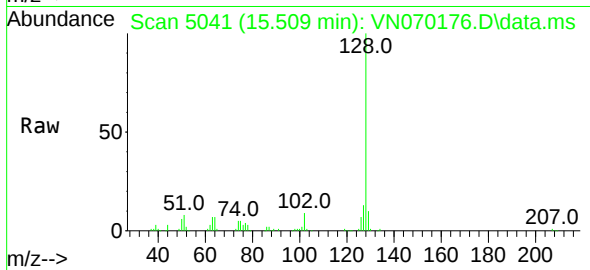




#95
Naphthalene
Concen: 11.127 ug/l
RT: 15.509 min Scan# 5040
Delta R.T. 0.002 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 171718
Ion Ratio Lower Upper
128 100
127 13.4 10.5 15.7
129 10.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.461 ug/l
RT: 15.694 min Scan# 5110
Delta R.T. -0.008 min
Lab File: VN070176.D
Acq: 17 Dec 2021 20:26

Tgt Ion:180 Resp: 196
Ion Ratio Lower Upper
180 100
182 114.3 47.4 142.2
145 113.3 15.0 45.1#

