

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070821\
 Data File : VN067670.D
 Acq On : 8 Jul 2021 17:56
 Operator : JC/MD
 Sample : M2967-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 09 03:55:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070721W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 07 16:18:53 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.088	168	346350	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	660301	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	735161	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	267464	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	275341	52.602	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 105.200%	
35) Dibromofluoromethane	8.024	113	192632	48.286	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 96.580%	
50) Toluene-d8	10.443	98	905175	54.207	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 108.420%	
62) 4-Bromofluorobenzene	12.733	95	315732	53.524	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 107.040%	

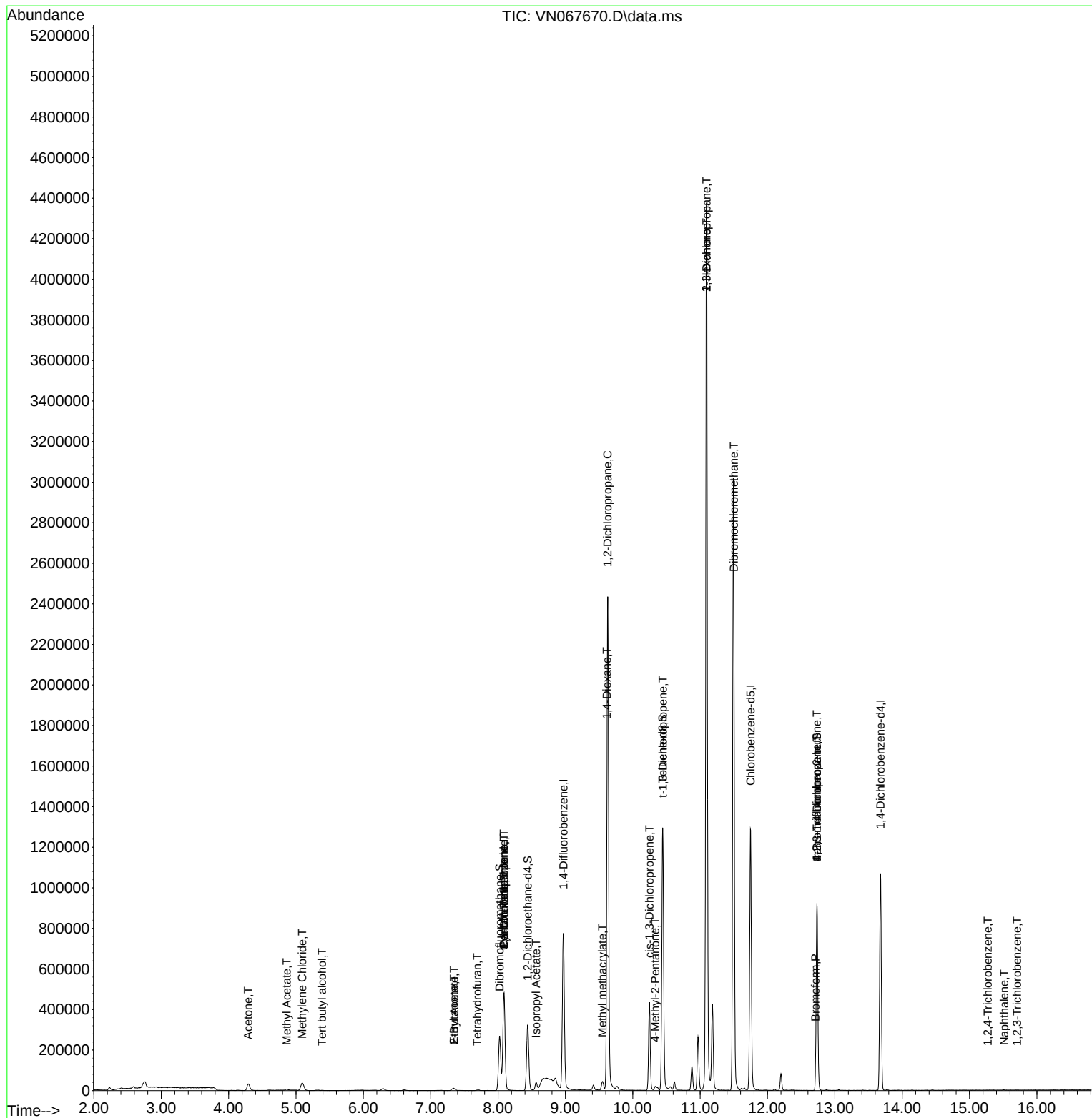
Target Compounds				Qvalue		
5) Bromomethane	2.818	94	81	Below Cal	#	4
6) Chloroethane	3.022	64	307	Below Cal	#	44
11) Tert butyl alcohol	5.388	59	430	0.572	ug/l #	71
13) Acrolein	4.041	56	274	Below Cal	#	77
16) Acetone	4.291	43	61753	37.493	ug/l	94
18) Methyl Acetate	4.865	43	11037	2.386	ug/l #	81
20) Methylene Chloride	5.093	84	29560	7.091	ug/l	94
25) 2-Butanone	7.348	43	10271	3.755	ug/l #	88
29) Tetrahydrofuran	7.689	42	1155	0.642	ug/l #	51
31) Cyclohexane	8.091	56	9495	1.294	ug/l #	23
36) 1,1-Dichloropropene	8.086	75	32759	5.341	ug/l #	51
37) Ethyl Acetate	7.348	43	10271	1.728	ug/l #	73
38) Carbon Tetrachloride	8.088	117	38109	6.299	ug/l #	17
43) Isopropyl Acetate	8.566	43	47769	4.569	ug/l #	91
45) 1,2-Dichloropropane	9.625	63	2878	0.619	ug/l #	44
48) Methyl methacrylate	9.550	41	9956	2.153	ug/l #	12
49) 1,4-Dioxane	9.617	88	217	34.416	ug/l #	20
51) 4-Methyl-2-Pentanone	10.333	43	10874	1.693	ug/l	89
53) t-1,3-Dichloropropene	10.448	75	233	1.774	ug/l #	1
54) cis-1,3-Dichloropropene	10.247	75	73806	10.293	ug/l #	62
57) 1,3-Dichloropropane	11.095	76	45749	5.789	ug/l #	43
59) 2-Hexanone	11.095	43	676769	150.967	ug/l #	54
60) Dibromochloromethane	11.502	129	333	2.413	ug/l #	11
71) Bromoform	12.712	173	64	3.188	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	176246	32.267	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.733	75	176246	104.032	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.271	180	314	2.741	ug/l #	44
95) Naphthalene	15.515	128	1793	3.141	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.705	180	134	2.662	ug/l #	14

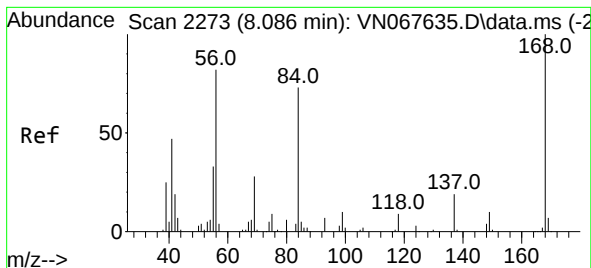
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN067670.D

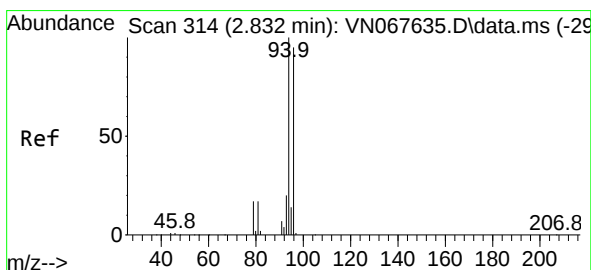
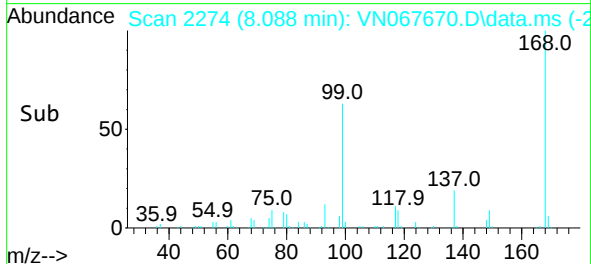
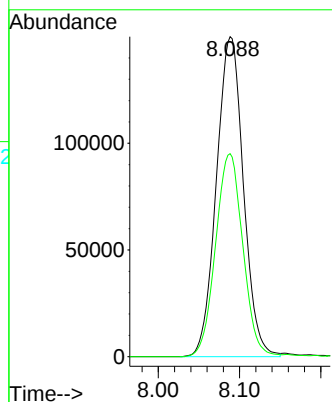
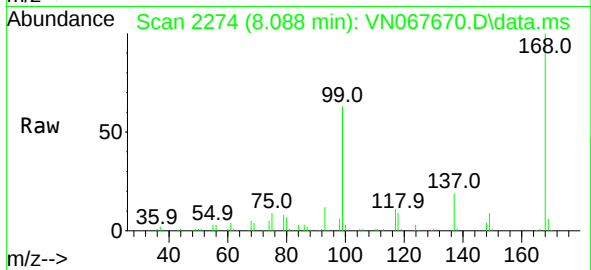
Acq: 8 Jul 2021 17:56

Tgt Ion:168 Resp: 346350

Ion Ratio Lower Upper

168 100

99 63.5 62.9 94.3



#5

Bromomethane

Concen: Below Cal

RT: 2.818 min Scan# 309

Delta R.T. -0.014 min

Lab File: VN067670.D

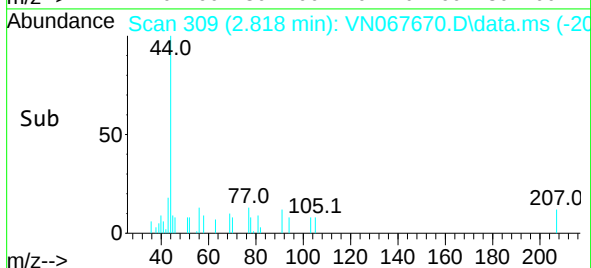
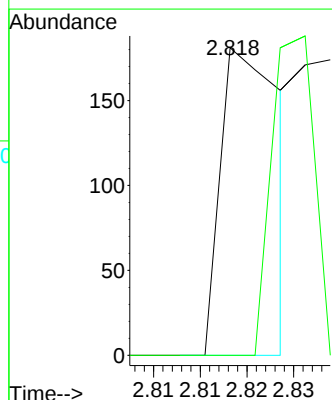
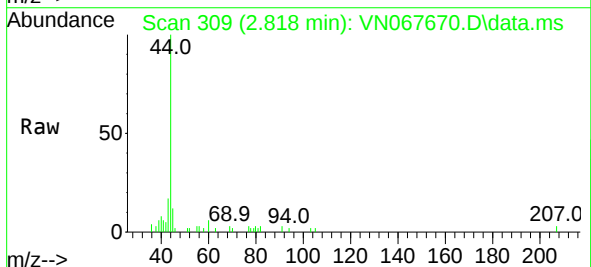
Acq: 8 Jul 2021 17:56

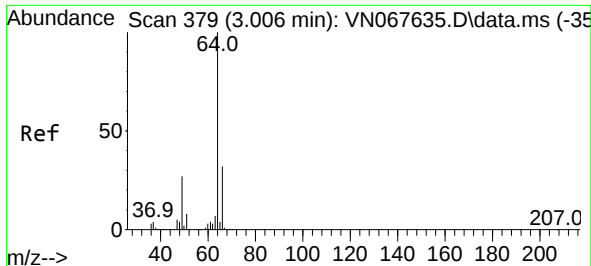
Tgt Ion: 94 Resp: 81

Ion Ratio Lower Upper

94 100

96 0.0 73.7 110.5#

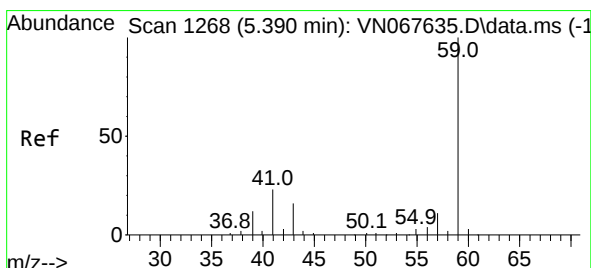
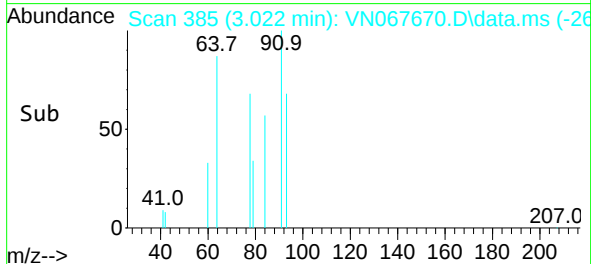
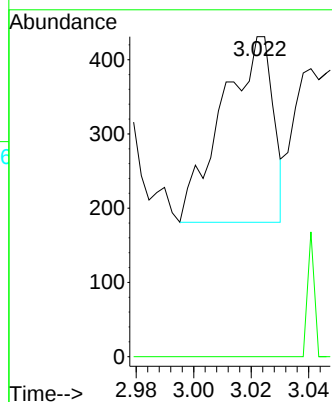
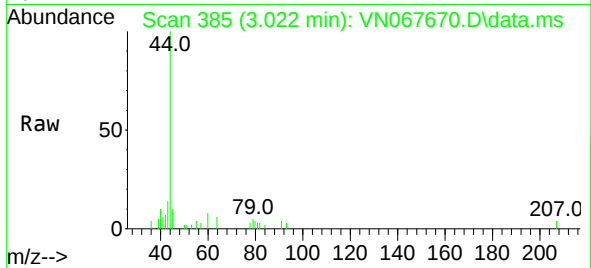




#6
Chloroethane
Concen: Below Cal
RT: 3.022 min Scan# 385
Delta R.T. 0.016 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

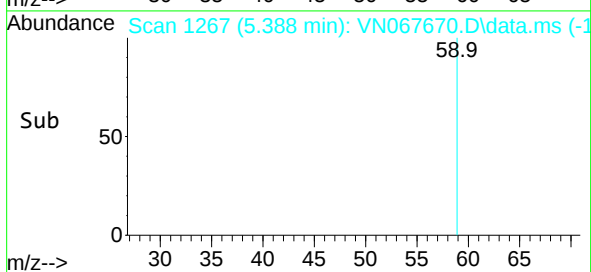
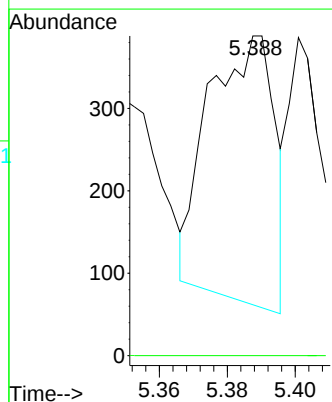
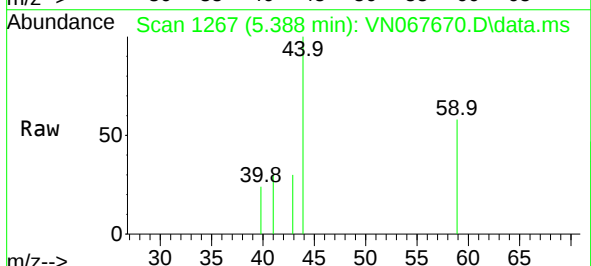
Instrument :
MSVOA_N
ClientSampled :

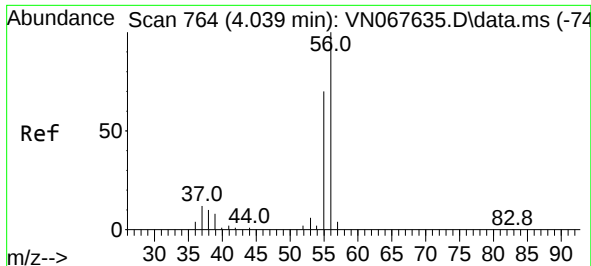
Tgt Ion: 64 Resp: 307
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.572 ug/l
RT: 5.388 min Scan# 1267
Delta R.T. -0.002 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 59 Resp: 430
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

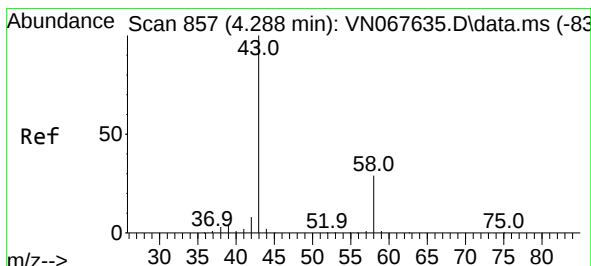
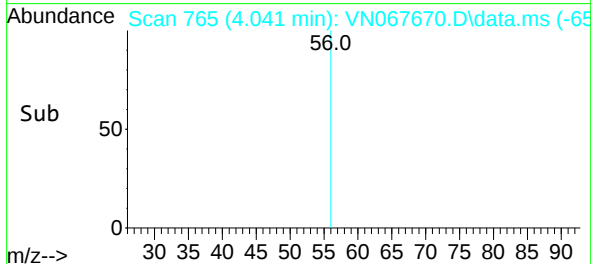
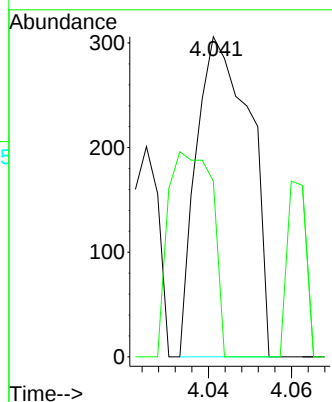
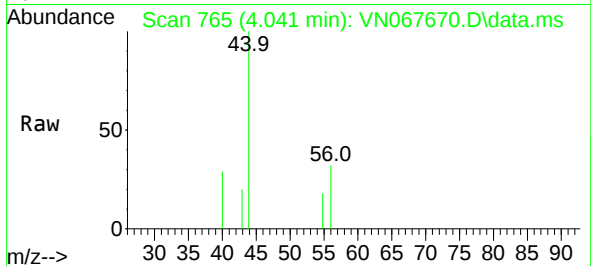




#13
Acrolein
Concen: Below Cal
RT: 4.041 min Scan# 765
Delta R.T. 0.002 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

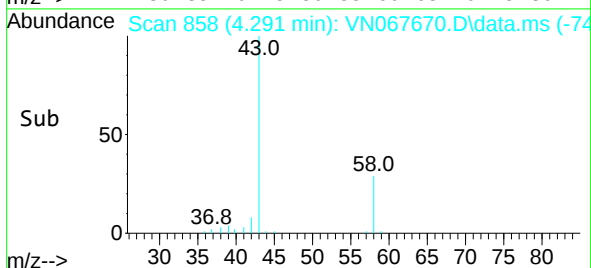
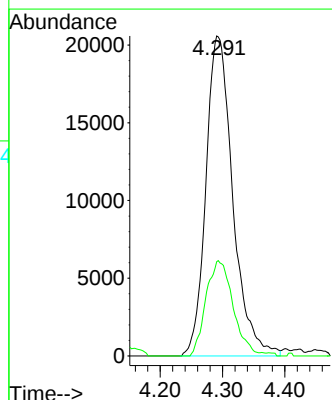
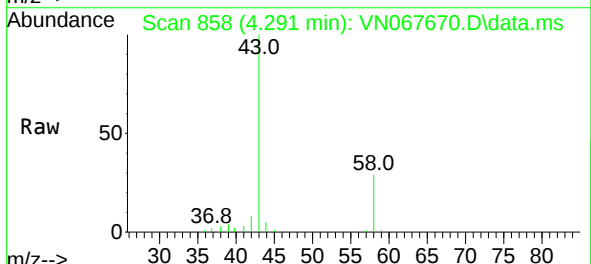
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MSVOA_N
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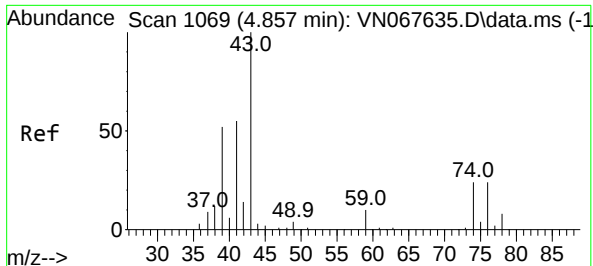
Tgt Ion: 56 Resp: 274
Ion Ratio Lower Upper
56 100
55 52.9 57.4 86.0#



#16
Acetone
Concen: 37.493 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.003 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 43 Resp: 61753
Ion Ratio Lower Upper
43 100
58 29.4 21.2 31.8

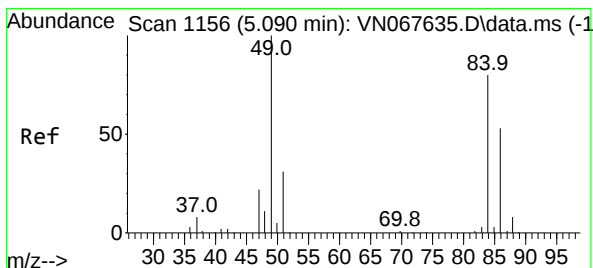
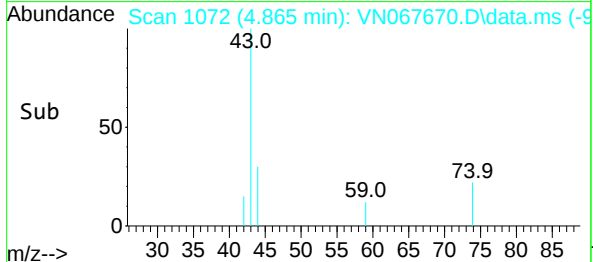
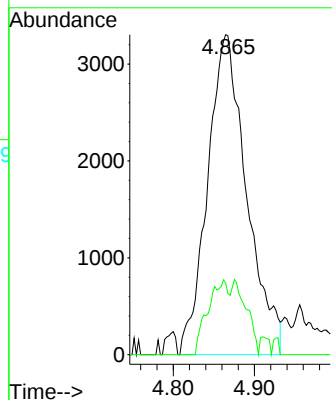
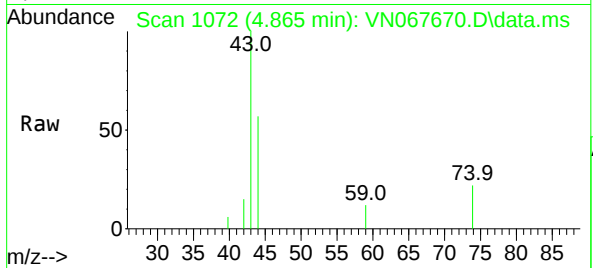




#18
Methyl Acetate
Concen: 2.386 ug/l
RT: 4.865 min Scan# 1072
Delta R.T. 0.008 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

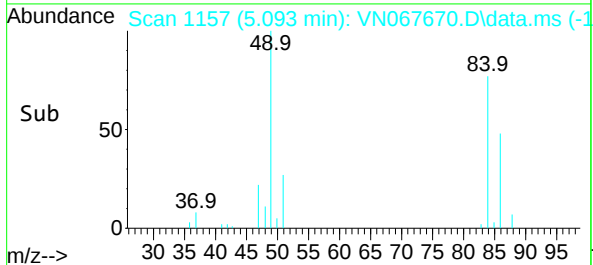
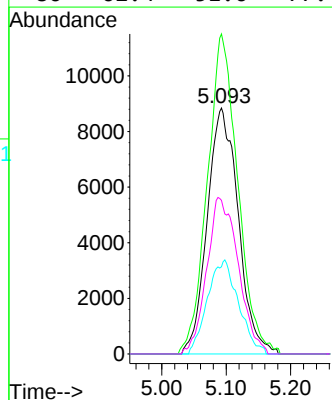
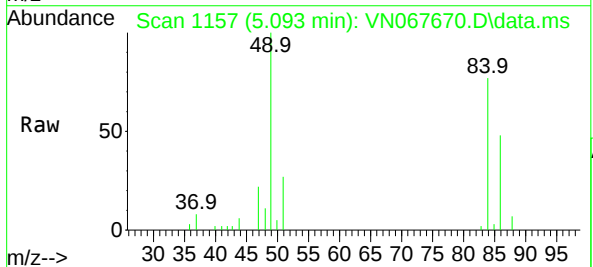
Instrument :
MSVOA_N
ClientSampleId :

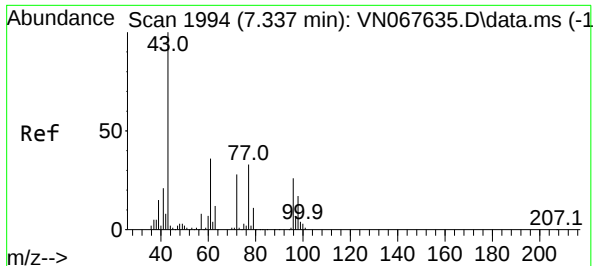
Tgt Ion: 43 Resp: 11037
Ion Ratio Lower Upper
43 100
74 12.7 17.4 26.0#



#20
Methylene Chloride
Concen: 7.091 ug/l
RT: 5.093 min Scan# 1157
Delta R.T. 0.003 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 84 Resp: 29560
Ion Ratio Lower Upper
84 100
49 130.1 110.9 166.3
51 35.5 32.6 49.0
86 62.4 51.6 77.4

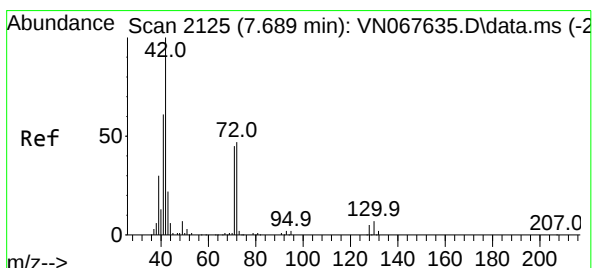
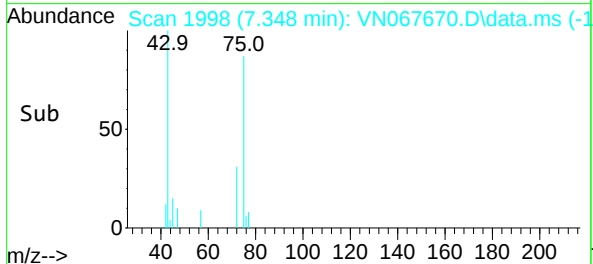
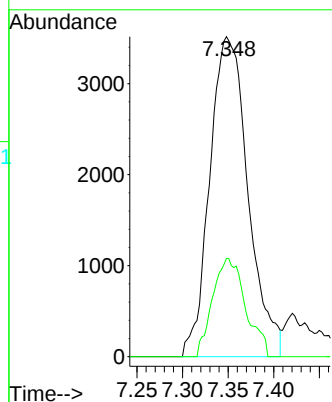
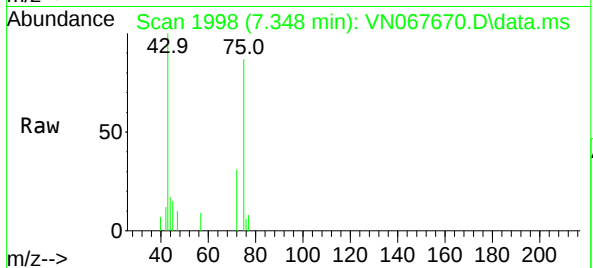




#25
2-Butanone
Concen: 3.755 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.011 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

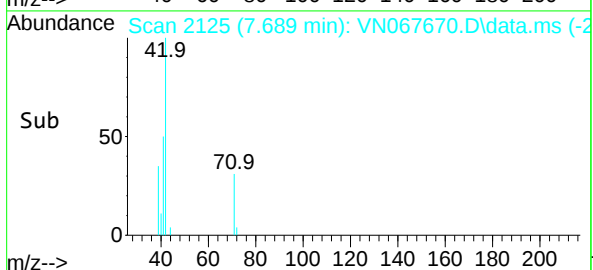
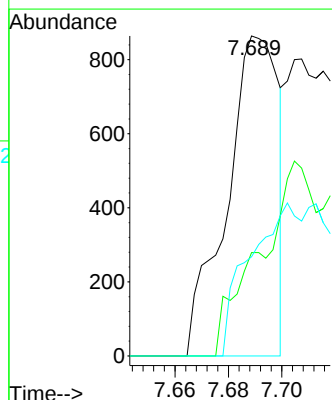
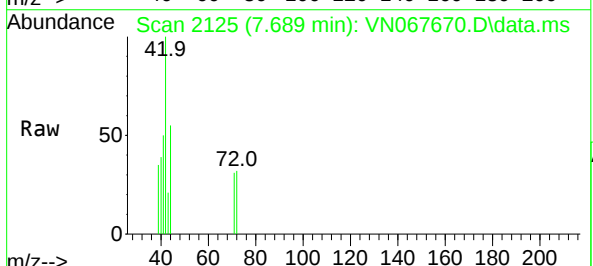
Instrument :
MSVOA_N
ClientSampled :

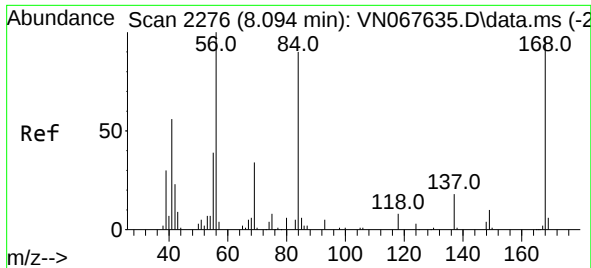
Tgt Ion: 43 Resp: 10271
Ion Ratio Lower Upper
43 100
72 30.7 19.7 29.5#



#29
Tetrahydrofuran
Concen: 0.642 ug/l
RT: 7.689 min Scan# 2125
Delta R.T. -0.000 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 42 Resp: 1155
Ion Ratio Lower Upper
42 100
72 92.6 32.8 49.2#
71 47.8 31.2 46.8#

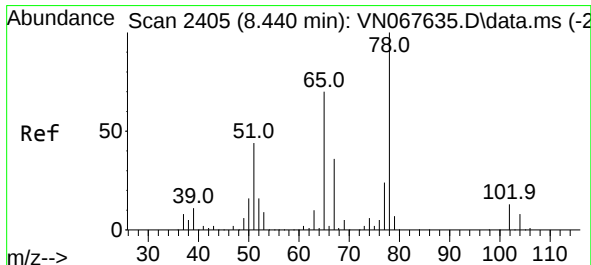
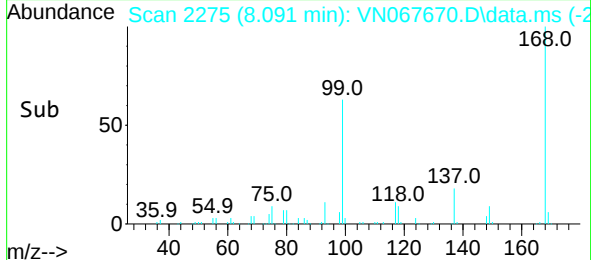
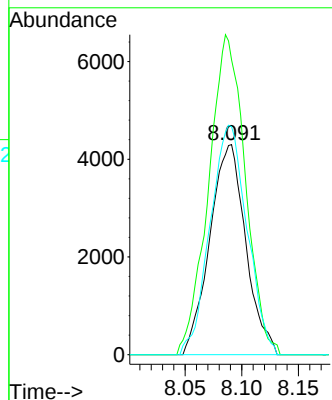
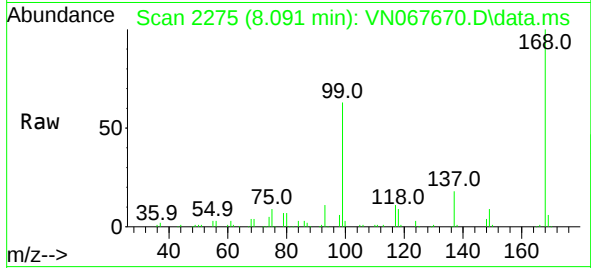




#31
Cyclohexane
Concen: 1.294 ug/l
RT: 8.091 min Scan# 2275
Delta R.T. -0.003 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

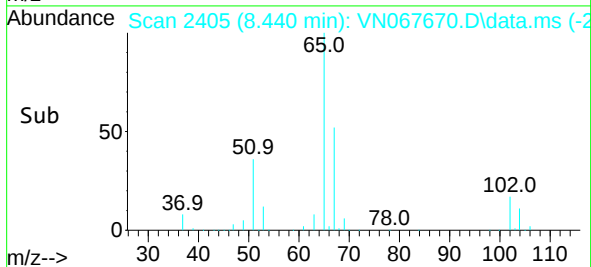
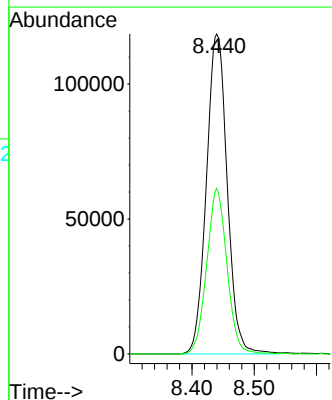
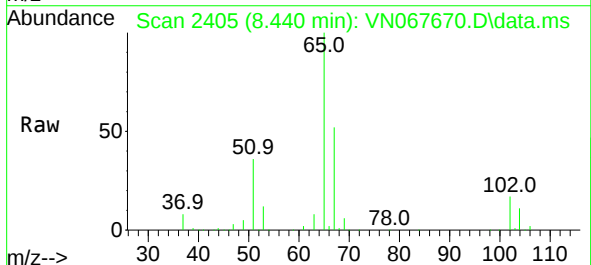
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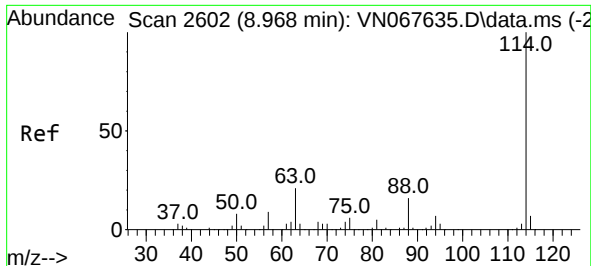
Tgt Ion: 56 Resp: 9495
Ion Ratio Lower Upper
56 100
69 140.3 27.3 40.9#
84 108.6 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 52.602 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 65 Resp: 275341
Ion Ratio Lower Upper
65 100
67 50.3 0.0 98.6

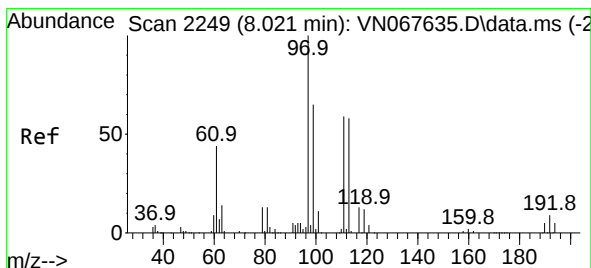
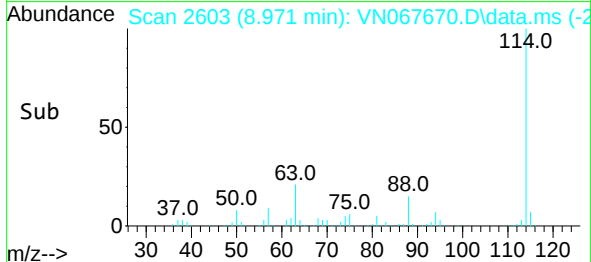
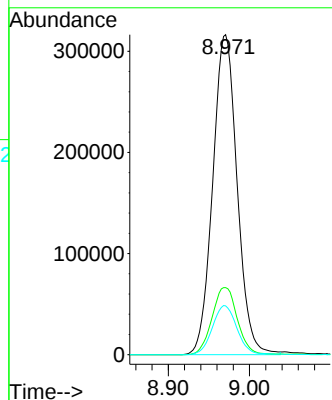
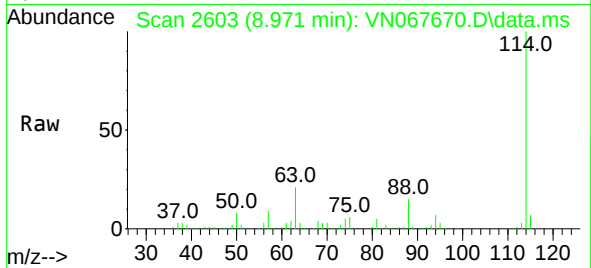




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

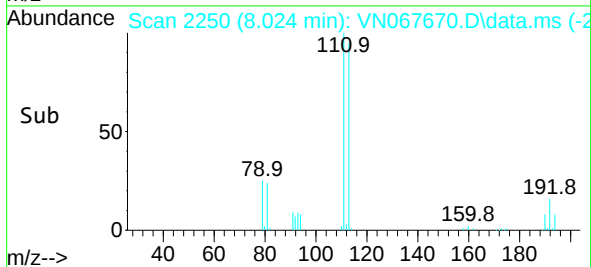
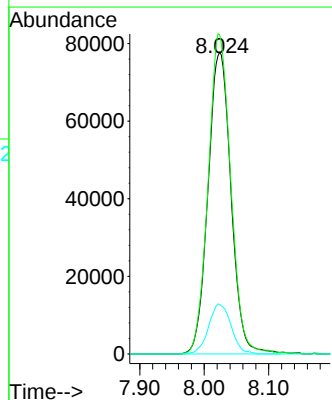
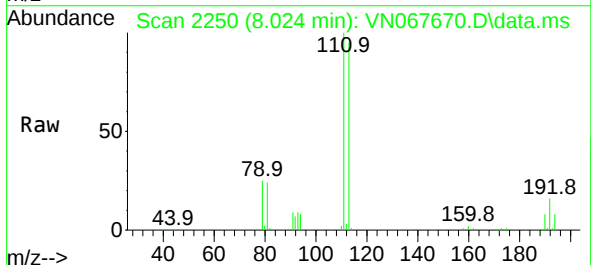
Instrument :
MSVOA_N
ClientSampled :

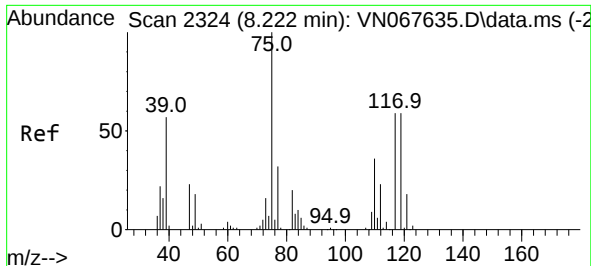
Tgt Ion:114 Resp: 660301
Ion Ratio Lower Upper
114 100
63 20.9 0.0 49.0
88 15.2 0.0 36.6



#35
Dibromofluoromethane
Concen: 48.286 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

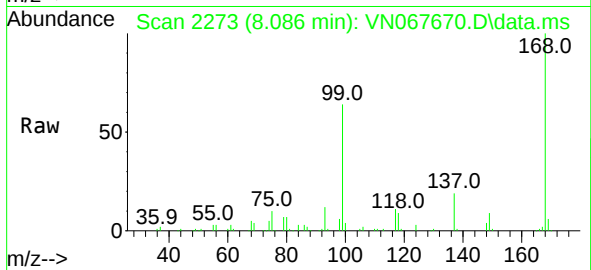
Tgt Ion:113 Resp: 192632
Ion Ratio Lower Upper
113 100
111 103.8 83.8 125.8
192 16.2 13.4 20.0



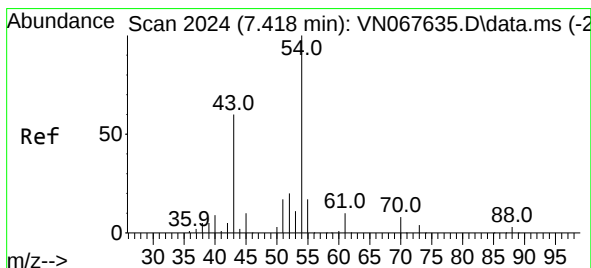
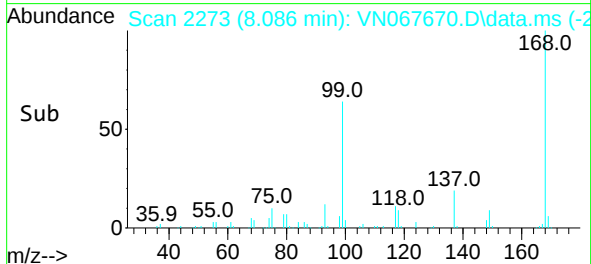
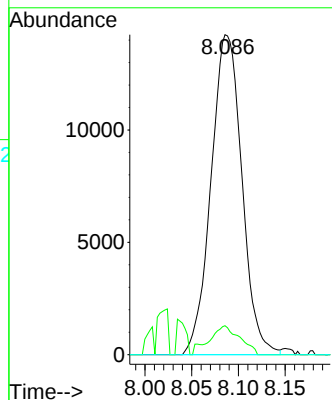


#36
1,1-Dichloropropene
Concen: 5.341 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Instrument :
MSVOA_N
ClientSampleId :

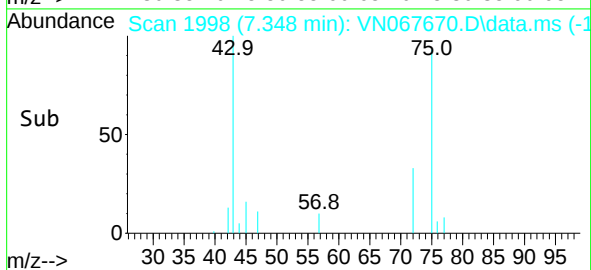
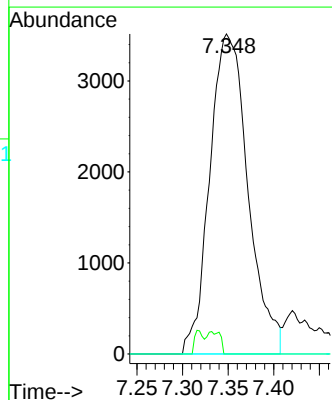
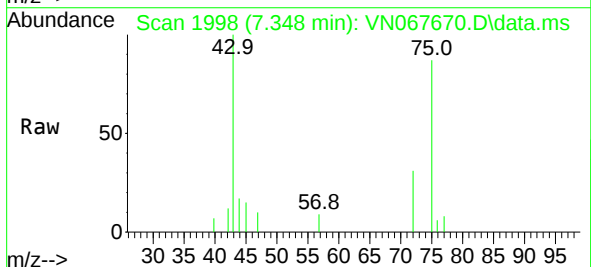


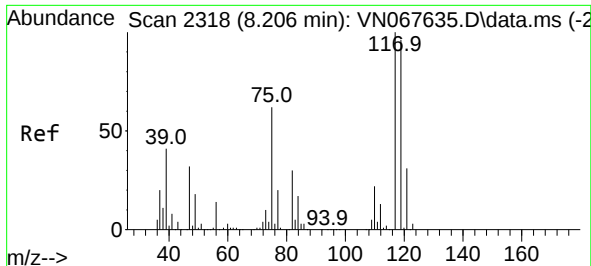
Tgt Ion: 75 Resp: 32759
Ion Ratio Lower Upper
75 100
110 8.0 15.7 47.0#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 1.728 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. -0.070 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

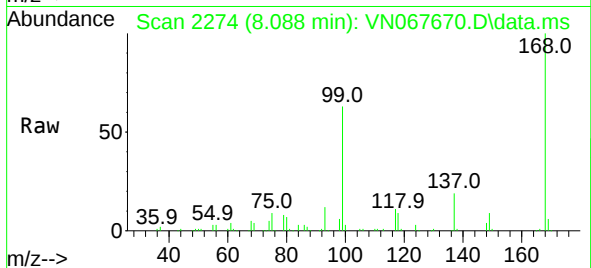
Tgt Ion: 43 Resp: 10271
Ion Ratio Lower Upper
43 100
61 2.4 10.6 16.0#
70 0.0 8.1 12.1#



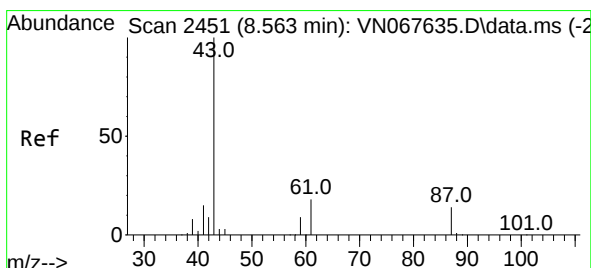
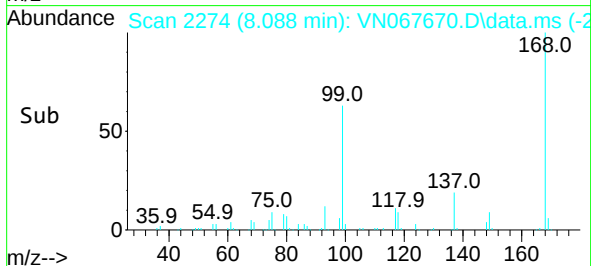
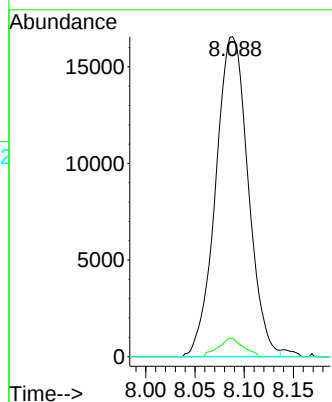


#38
Carbon Tetrachloride
Concen: 6.299 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Instrument :
MSVOA_N
ClientSampleId :

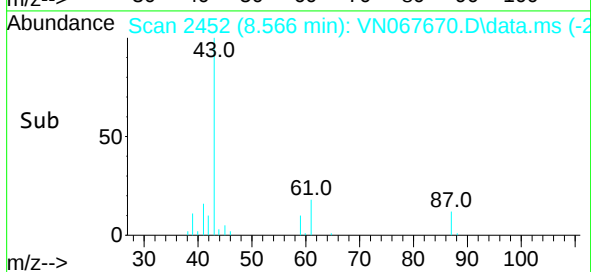
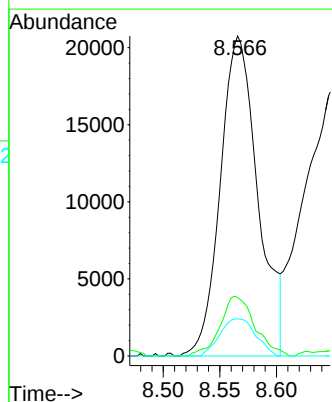
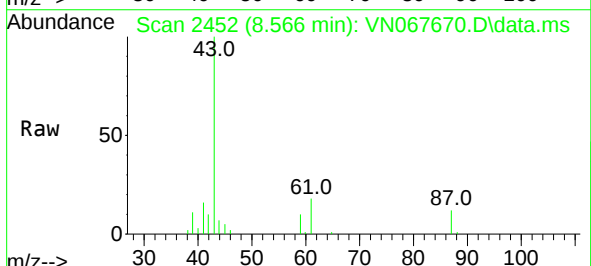


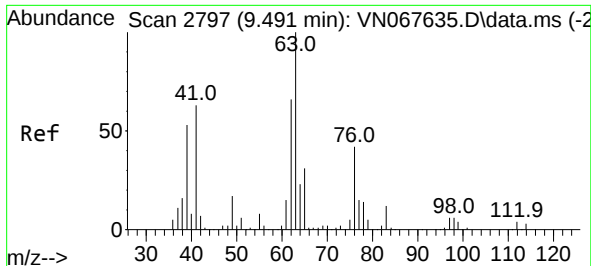
Tgt Ion:117 Resp: 38109
Ion Ratio Lower Upper
117 100
119 5.7 75.4 113.2#
121 0.0 23.5 35.3#



#43
Isopropyl Acetate
Concen: 4.569 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.003 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 43 Resp: 47769
Ion Ratio Lower Upper
43 100
61 17.3 19.0 28.4#
87 11.1 9.5 14.3



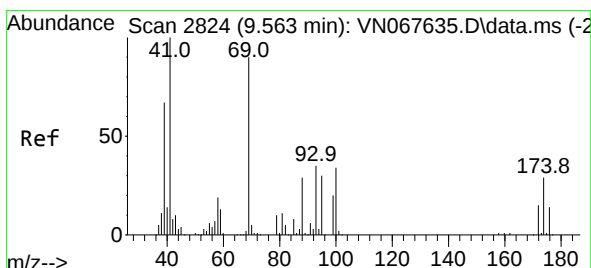
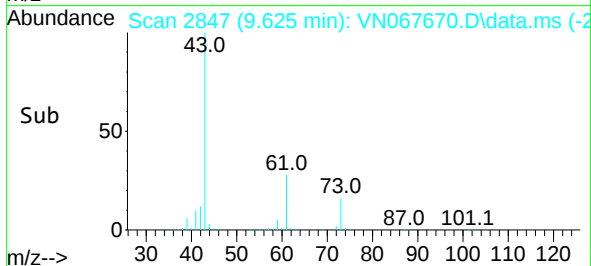
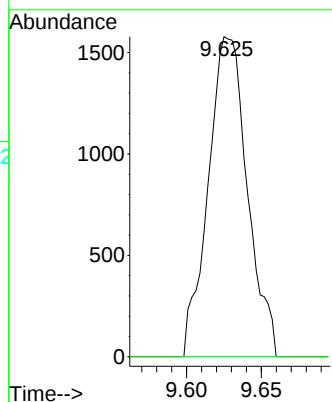
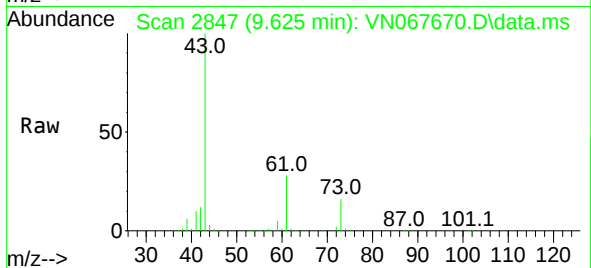


#45

1,2-Dichloropropane
Concen: 0.619 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Instrument :
MSVOA_N
ClientSampled :

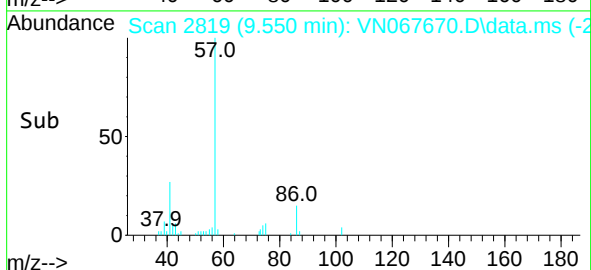
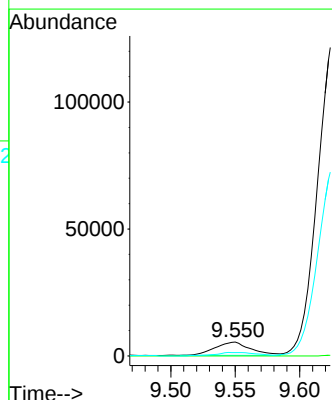
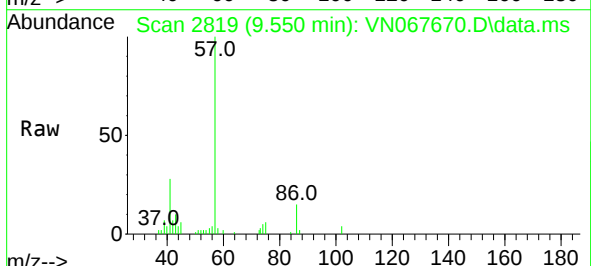
Tgt Ion: 63 Resp: 2878
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#

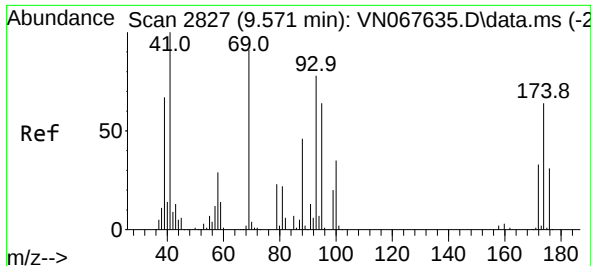


#48

Methyl methacrylate
Concen: 2.153 ug/l
RT: 9.550 min Scan# 2819
Delta R.T. -0.013 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 41 Resp: 9956
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#





#49

1,4-Dioxane

Concen: 34.416 ug/l

RT: 9.617 min Scan# 2844

Delta R.T. 0.046 min

Lab File: VN067670.D

Acq: 8 Jul 2021 17:56

Tgt Ion: 88 Resp: 217

Ion Ratio Lower Upper

88 100

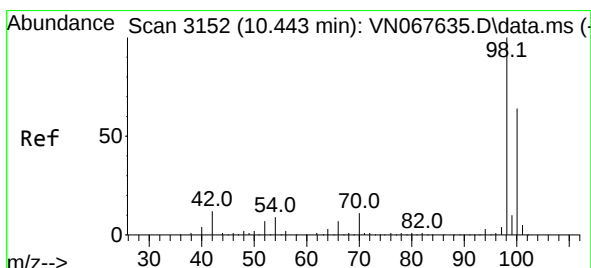
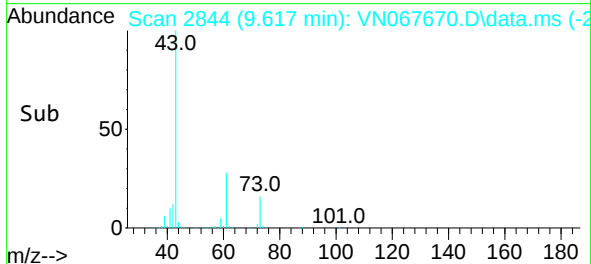
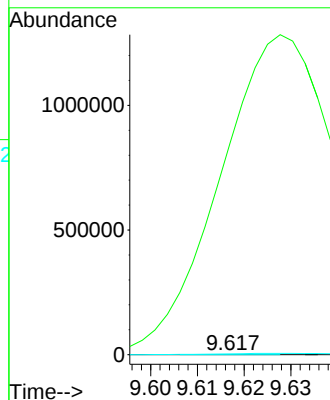
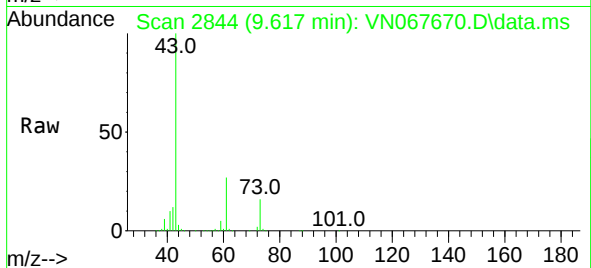
43 0.0 28.8 43.2#

58 0.0 60.4 90.6#

Instrument :

MSVOA_N

ClientSampled :



#50

Toluene-d8

Concen: 54.207 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN067670.D

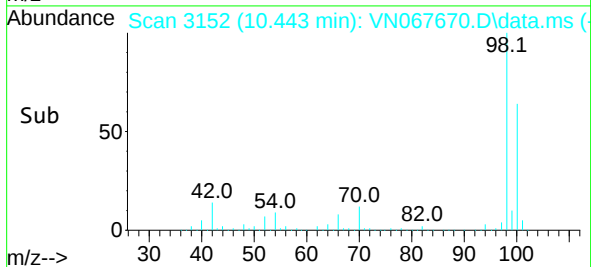
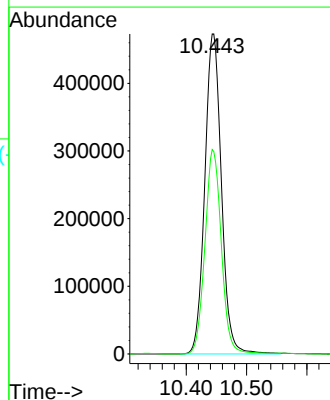
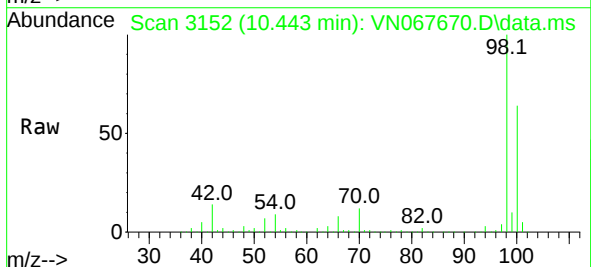
Acq: 8 Jul 2021 17:56

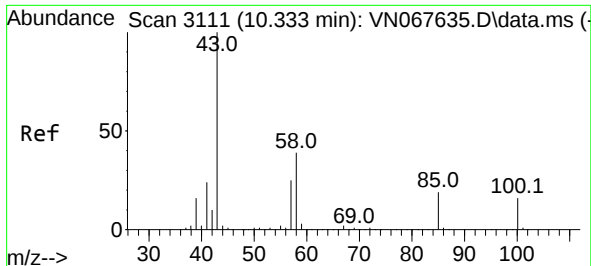
Tgt Ion: 98 Resp: 905175

Ion Ratio Lower Upper

98 100

100 63.1 51.7 77.5

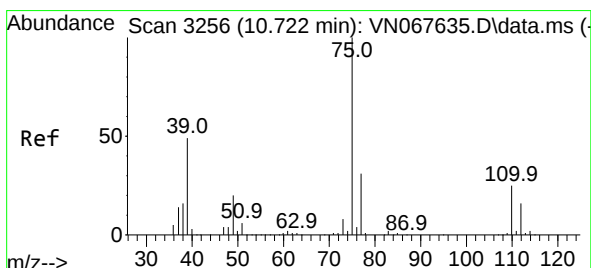
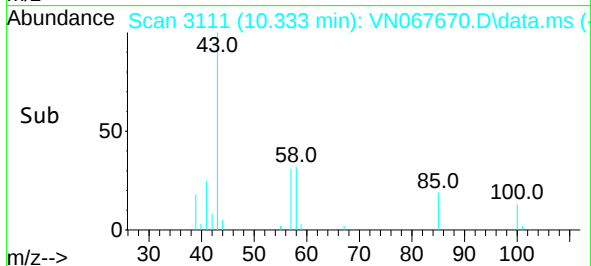
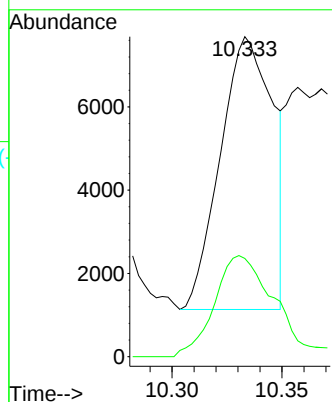
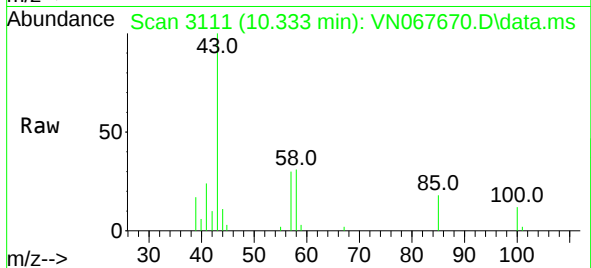




#51
4-Methyl-2-Pentanone
Concen: 1.693 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

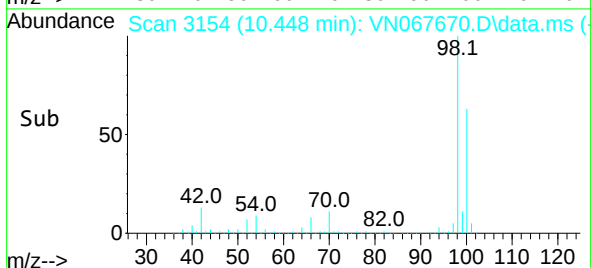
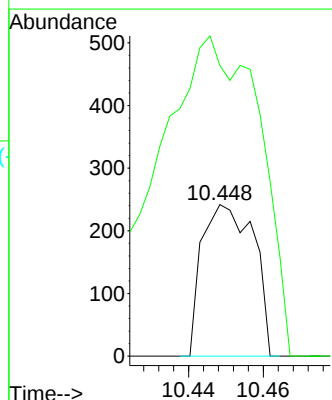
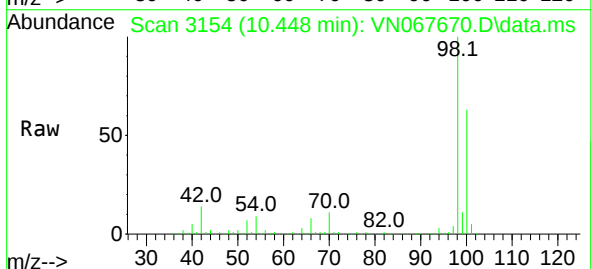
Instrument :
MSVOA_N
ClientSampled :

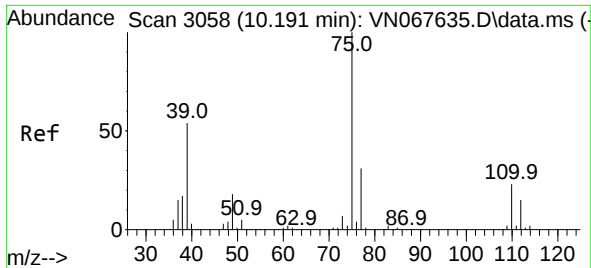
Tgt Ion: 43 Resp: 10874
Ion Ratio Lower Upper
43 100
58 42.3 28.6 43.0



#53
t-1,3-Dichloropropene
Concen: 1.774 ug/l
RT: 10.448 min Scan# 3154
Delta R.T. -0.274 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 75 Resp: 233
Ion Ratio Lower Upper
75 100
77 127.7 25.1 37.7#

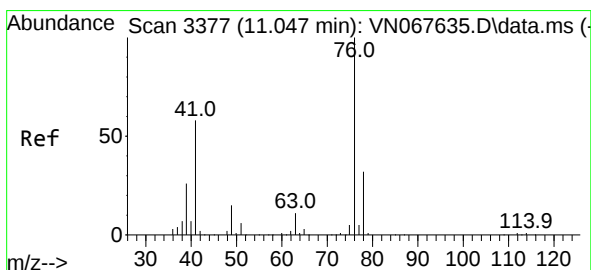
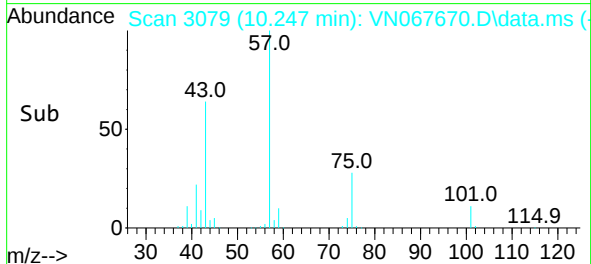
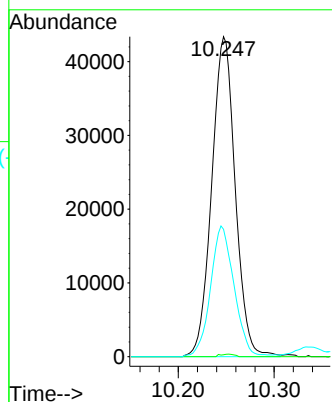
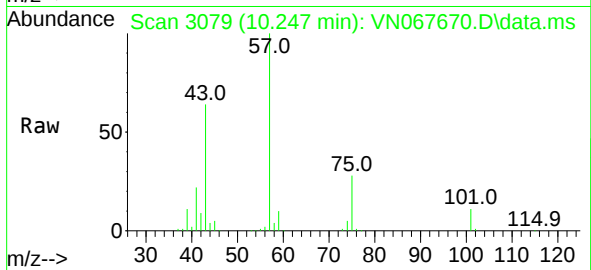




#54
 cis-1,3-Dichloropropene
 Concen: 10.293 ug/l
 RT: 10.247 min Scan# 3079
 Delta R.T. 0.056 min
 Lab File: VN067670.D
 Acq: 8 Jul 2021 17:56

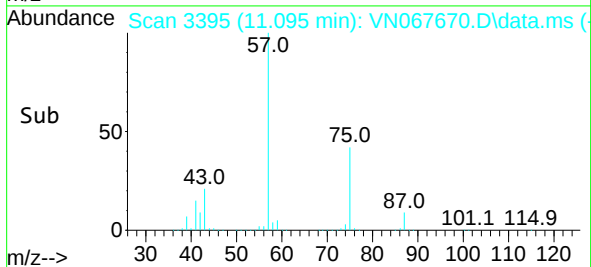
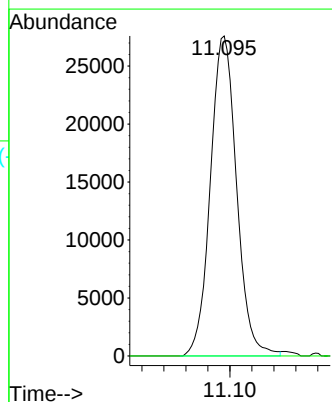
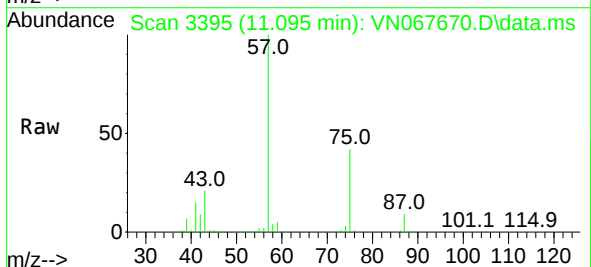
Instrument :
 MSVOA_N
 ClientSampleId :

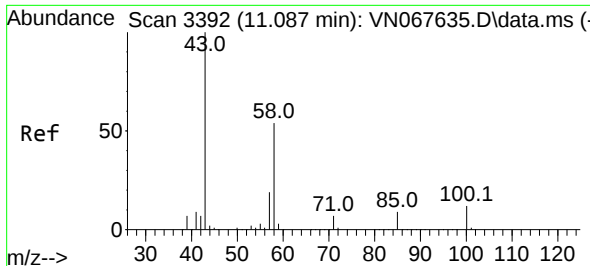
Tgt Ion: 75 Resp: 73806
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.6 37.0#
 39 39.8 50.7 76.1#



#57
 1,3-Dichloropropane
 Concen: 5.789 ug/l
 RT: 11.095 min Scan# 3395
 Delta R.T. 0.048 min
 Lab File: VN067670.D
 Acq: 8 Jul 2021 17:56

Tgt Ion: 76 Resp: 45749
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

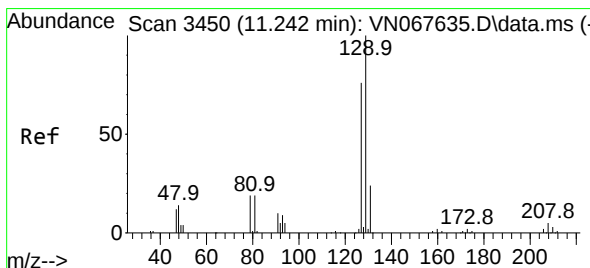
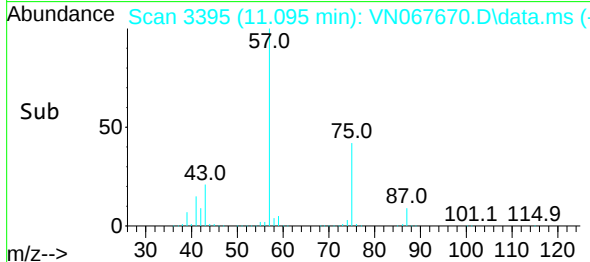
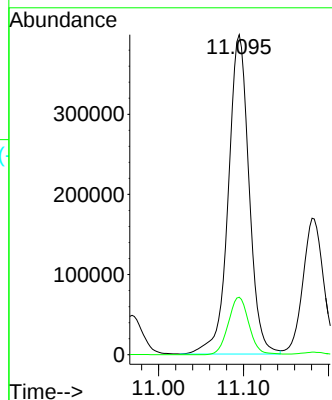
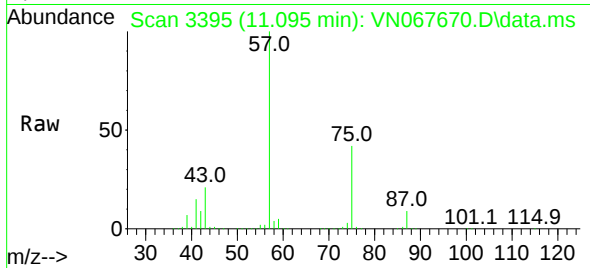




#59
2-Hexanone
Concen: 150.967 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

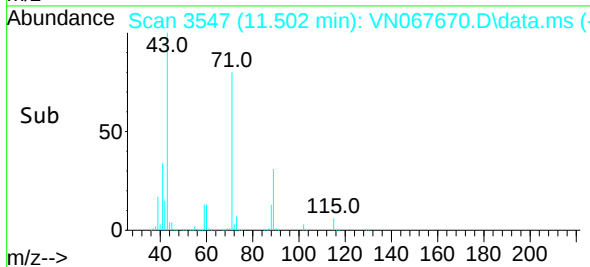
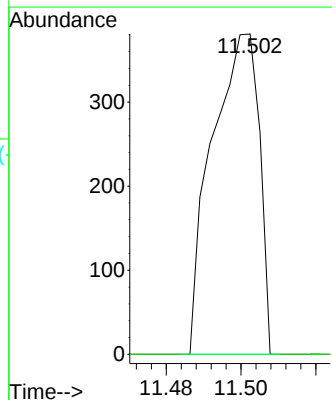
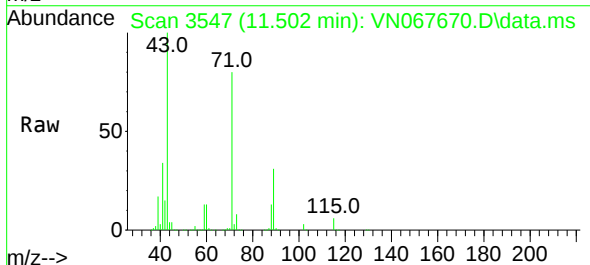
Instrument :
MSVOA_N
ClientSampleId :

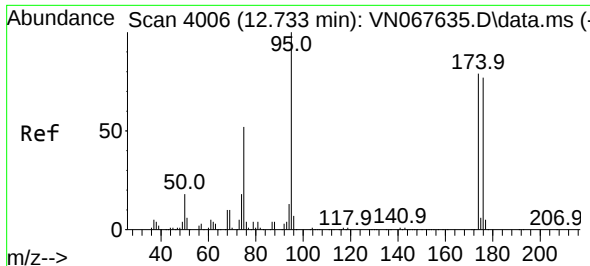
Tgt Ion: 43 Resp: 676769
Ion Ratio Lower Upper
43 100
58 17.9 24.7 74.1#



#60
Dibromochloromethane
Concen: 2.413 ug/l
RT: 11.502 min Scan# 3547
Delta R.T. 0.260 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion:129 Resp: 333
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

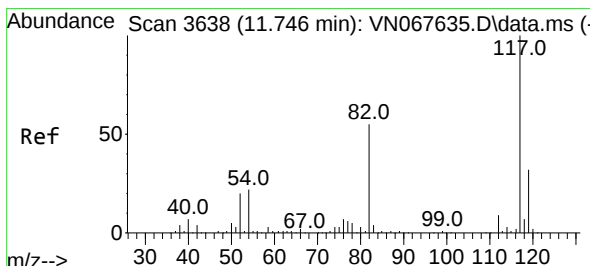
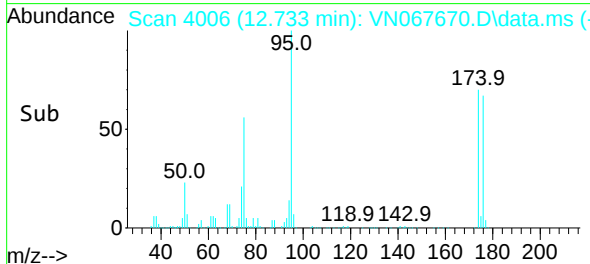
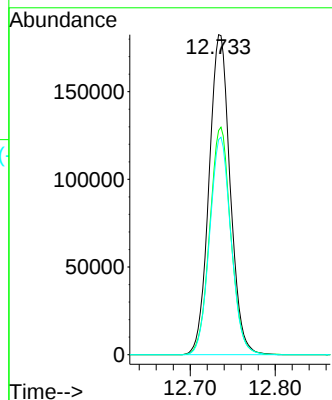
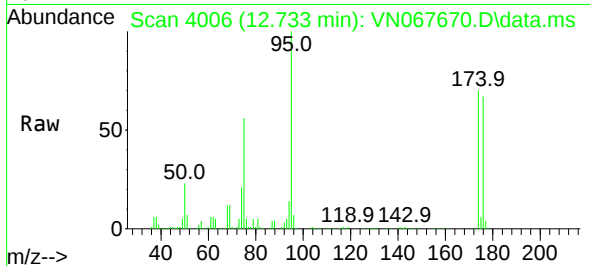




#62
4-Bromofluorobenzene
Concen: 53.524 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

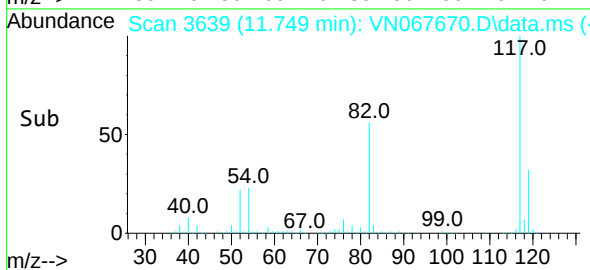
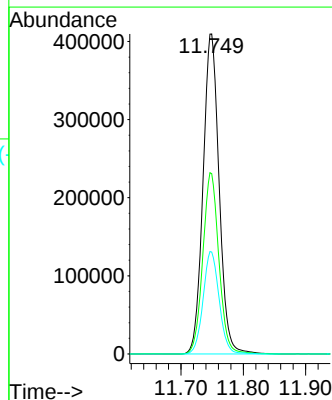
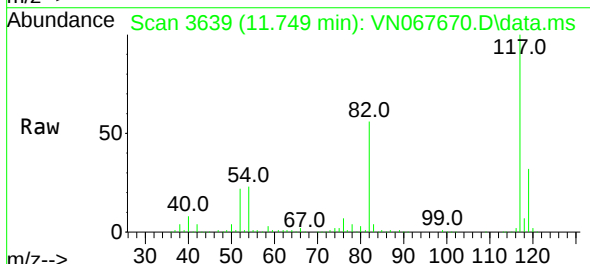
Instrument :
MSVOA_N
ClientSampleId :

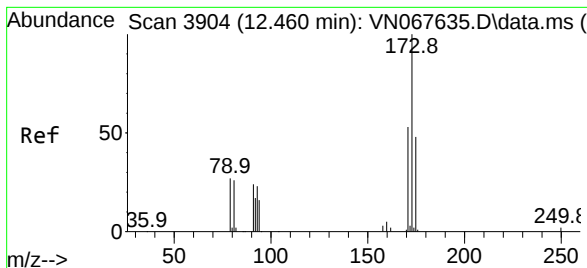
Tgt Ion: 95 Resp: 315732
Ion Ratio Lower Upper
95 100
174 71.3 0.0 122.0
176 68.5 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

Tgt Ion: 117 Resp: 735161
Ion Ratio Lower Upper
117 100
82 56.4 53.1 79.7
119 31.8 25.5 38.3





#71

Bromoform

Concen: 3.188 ug/l

RT: 12.712 min Scan# 3998

Delta R.T. 0.252 min

Lab File: VN067670.D

Acq: 8 Jul 2021 17:56

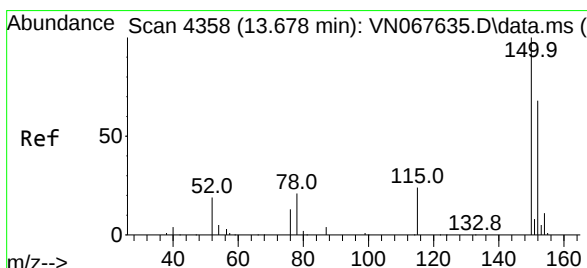
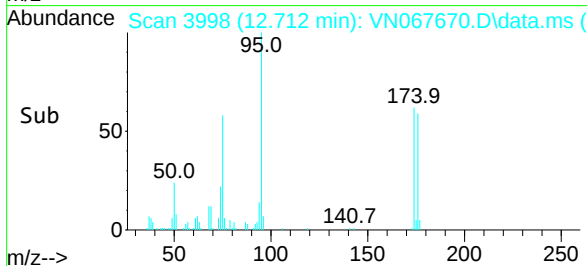
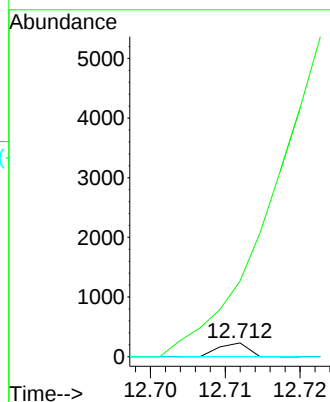
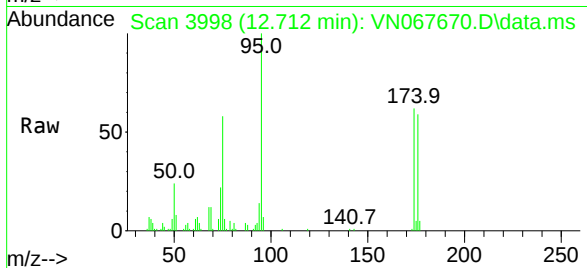
Tgt Ion:173 Resp: 64

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 4358

Delta R.T. -0.000 min

Lab File: VN067670.D

Acq: 8 Jul 2021 17:56

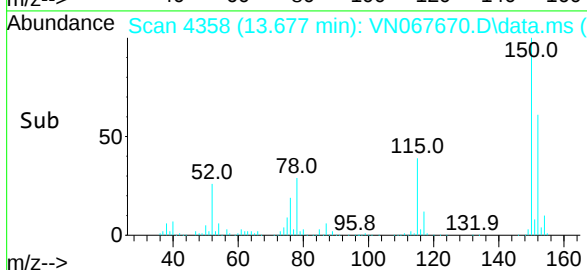
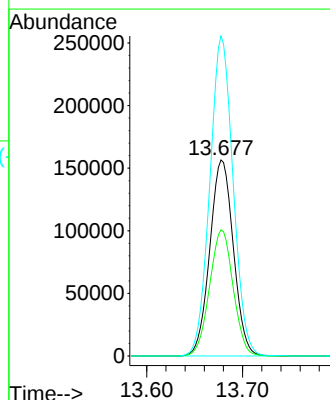
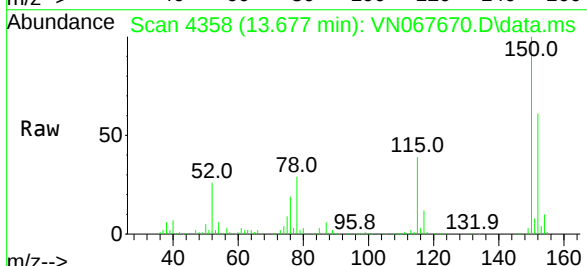
Tgt Ion:152 Resp: 267464

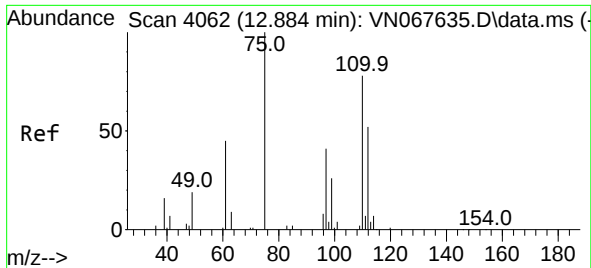
Ion Ratio Lower Upper

152 100

115 64.2 36.1 108.5

150 160.9 0.0 351.8

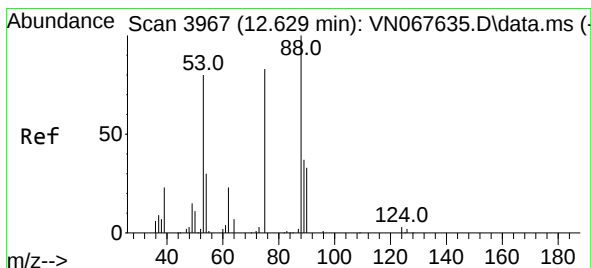
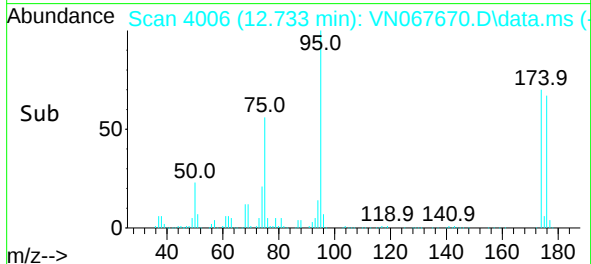
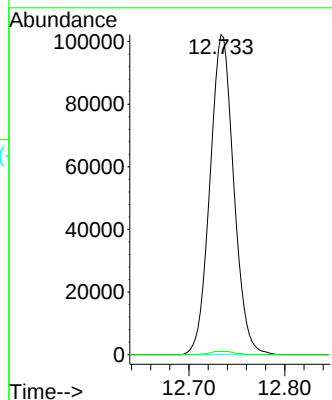
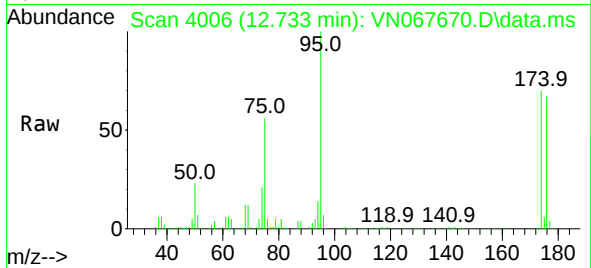




#76
1,2,3-Trichloropropane
Concen: 32.267 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.151 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

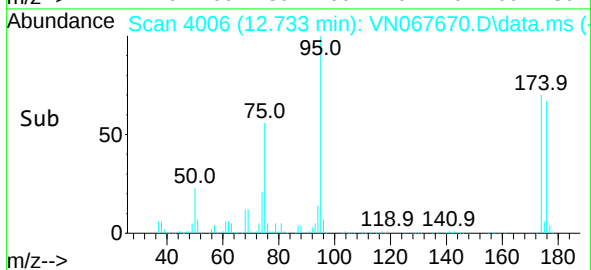
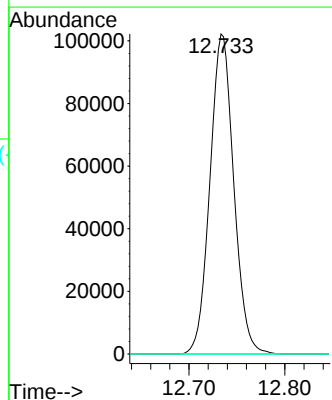
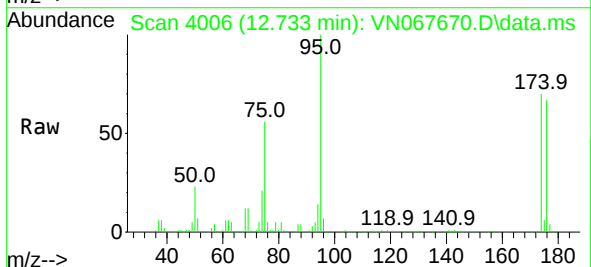
Instrument :
MSVOA_N
ClientSampled :

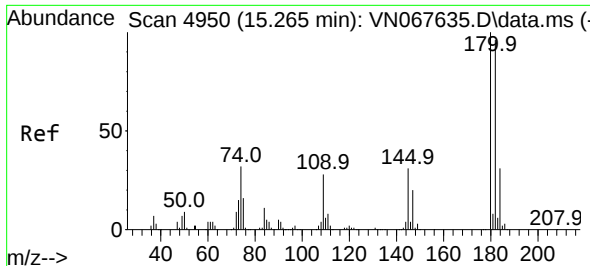
Tgt Ion: 75 Resp: 176246
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 104.032 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

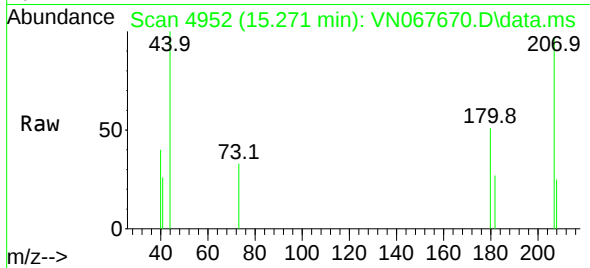
Tgt Ion: 75 Resp: 176246
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



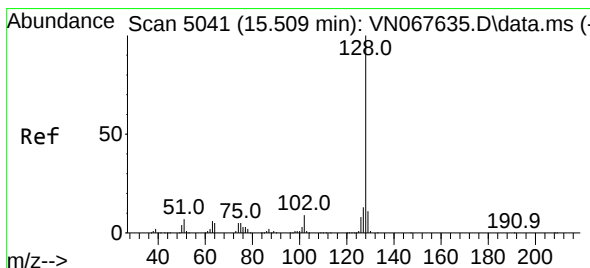
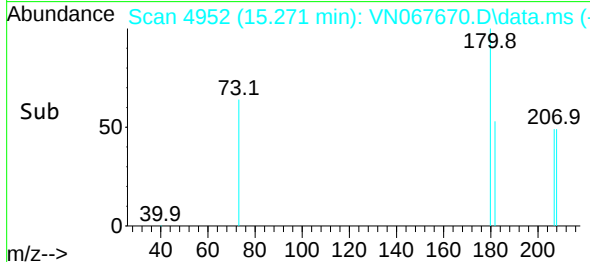
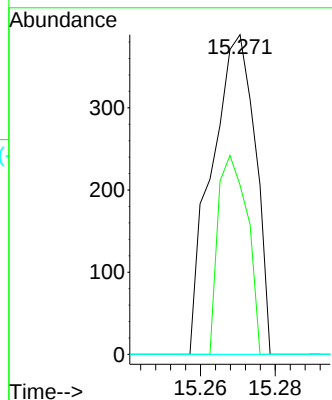


#93
1,2,4-Trichlorobenzene
Concen: 2.741 ug/l
RT: 15.271 min Scan# 4952
Delta R.T. 0.006 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56

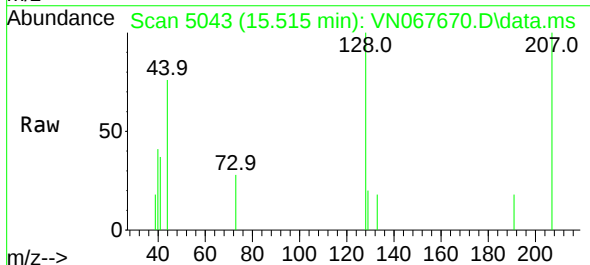
Instrument :
MSVOA_N
ClientSampled :



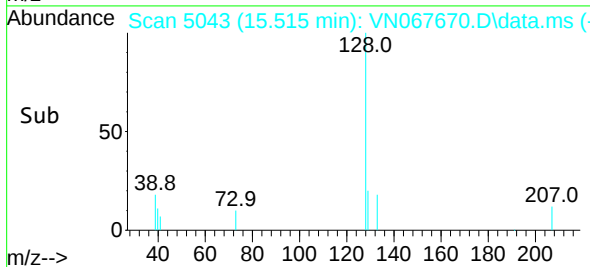
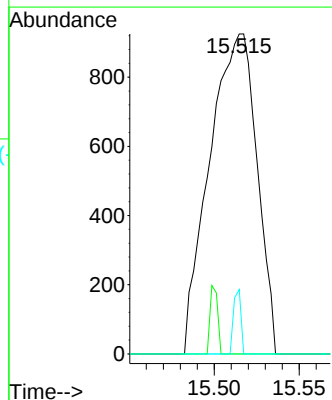
Tgt Ion:180 Resp: 314
Ion Ratio Lower Upper
180 100
182 41.7 47.5 142.5#
145 0.0 17.2 51.6#

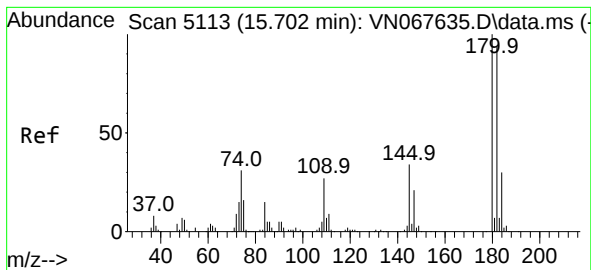


#95
Naphthalene
Concen: 3.141 ug/l
RT: 15.515 min Scan# 5043
Delta R.T. 0.006 min
Lab File: VN067670.D
Acq: 8 Jul 2021 17:56



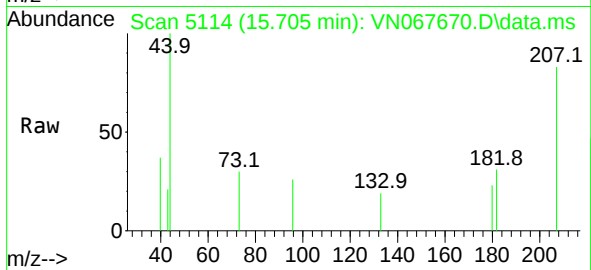
Tgt Ion:128 Resp: 1793
Ion Ratio Lower Upper
128 100
127 3.3 10.6 15.8#
129 3.1 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.662 ug/l
 RT: 15.705 min Scan# 5114
 Delta R.T. 0.003 min
 Lab File: VN067670.D
 Acq: 8 Jul 2021 17:56

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 134
 Ion Ratio Lower Upper
 180 100
 182 188.8 47.8 143.3#
 145 0.0 18.2 54.6#

