

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072121\
 Data File : VN067847.D
 Acq On : 21 Jul 2021 18:41
 Operator : JC/MD
 Sample : M3089-19
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 22 02:14:26 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)

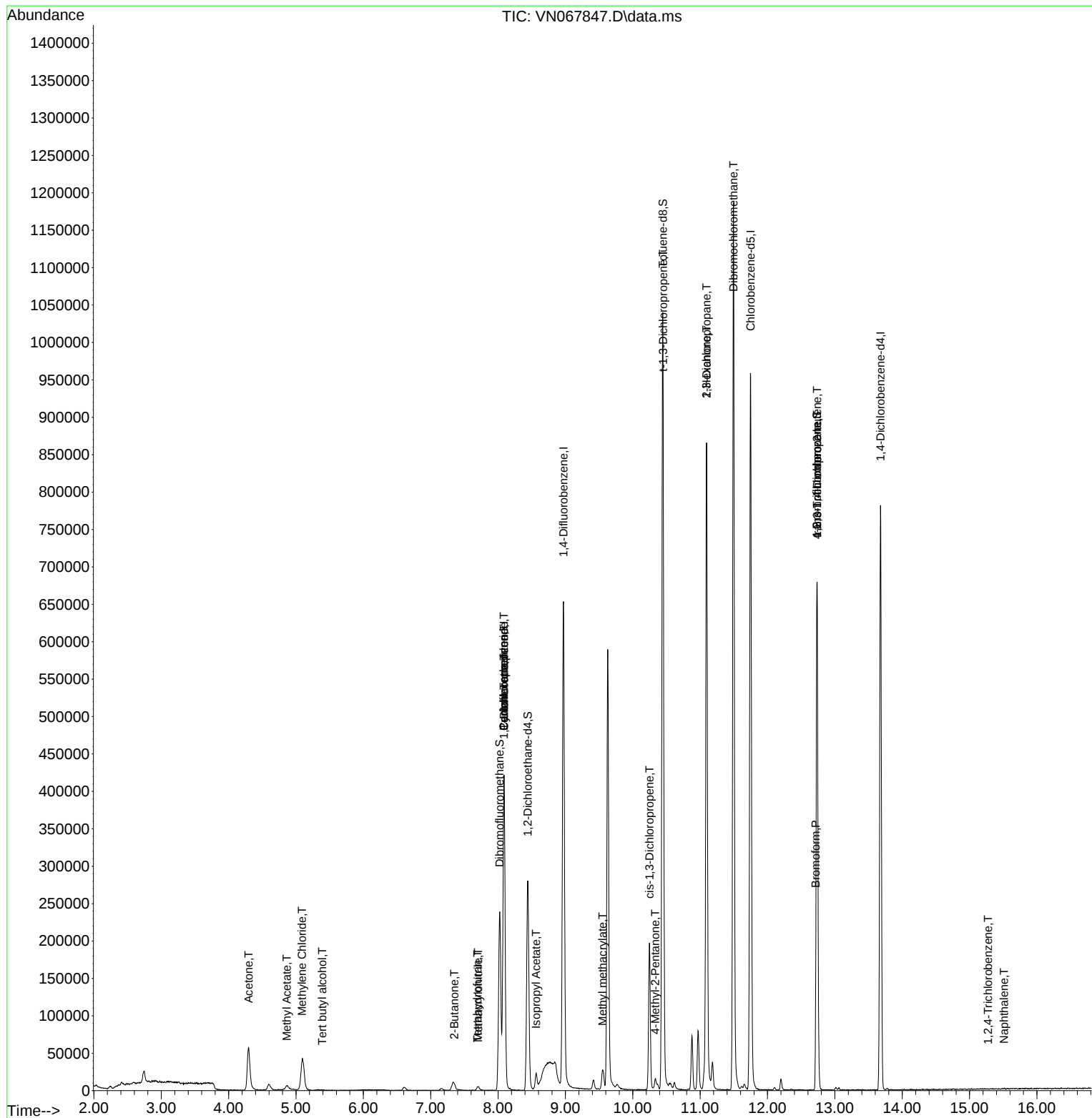
Internal Standards						
1) Pentafluorobenzene	8.088	168	295009	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	572049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	556443	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	198477	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	237033	53.164	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 106.320%			
35) Dibromofluoromethane	8.024	113	171347	49.577	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.160%			
50) Toluene-d8	10.446	98	726897	50.246	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 100.500%			
62) 4-Bromofluorobenzene	12.733	95	242434	47.439	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 94.880%			
Target Compounds			Qvalue			
5) Bromomethane	2.826	94	53	Below Cal	#	4
6) Chloroethane	3.019	64	29	Below Cal	#	44
11) Tert butyl alcohol	5.390	59	481	0.751	ug/l #	71
13) Acrolein	4.038	56	52	Below Cal	#	14
16) Acetone	4.296	43	107590	76.691	ug/l	93
18) Methyl Acetate	4.864	43	11923	3.026	ug/l #	84
20) Methylene Chloride	5.090	84	33224	9.582	ug/l	91
25) 2-Butanone	7.351	43	8656	3.716	ug/l #	87
29) Tetrahydrofuran	7.694	42	1973	1.288	ug/l #	54
31) Cyclohexane	8.088	56	8198	1.311	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	27748	5.222	ug/l #	52
38) Carbon Tetrachloride	8.088	117	33238	6.341	ug/l #	17
41) Methacrylonitrile	7.705	41	2710	1.024	ug/l #	38
43) Isopropyl Acetate	8.566	43	25664	2.834	ug/l #	92
48) Methyl methacrylate	9.553	41	9456	2.361	ug/l #	21
51) 4-Methyl-2-Pentanone	10.336	43	10457	1.879	ug/l	92
53) t-1,3-Dichloropropene	10.451	75	94	1.758	ug/l #	35
54) cis-1,3-Dichloropropene	10.247	75	34904	5.618	ug/l #	61
57) 1,3-Dichloropropane	11.095	76	9423	1.376	ug/l #	43
59) 2-Hexanone	11.095	43	152053	39.151	ug/l #	52
60) Dibromochloromethane	11.494	129	59	2.368	ug/l #	11
71) Bromoform	12.717	173	156	3.217	ug/l #	1
76) 1,2,3-Trichloropropane	12.736	75	134723	33.238	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.736	75	134723	107.163	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.273	180	51	2.689	ug/l #	12
95) Naphthalene	15.512	128	674	3.077	ug/l #	69

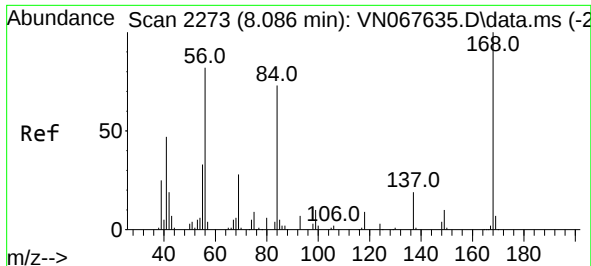
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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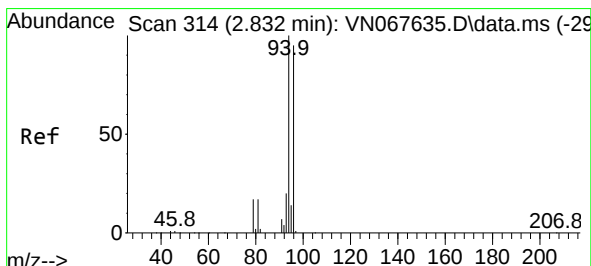
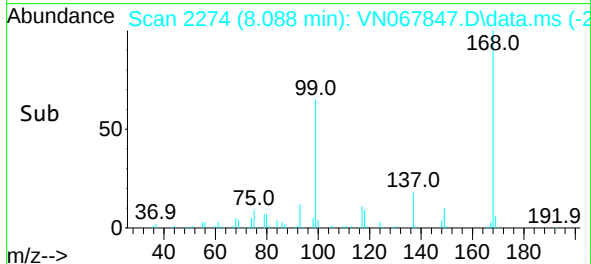
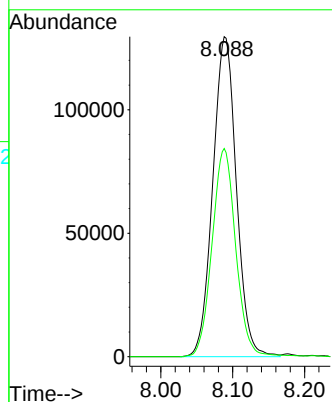
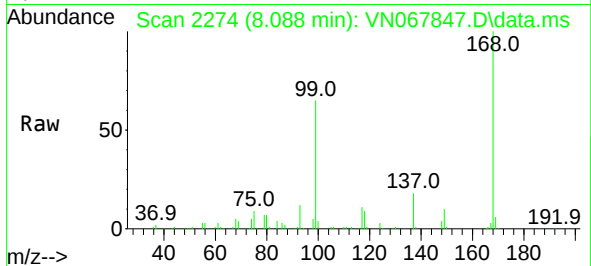




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

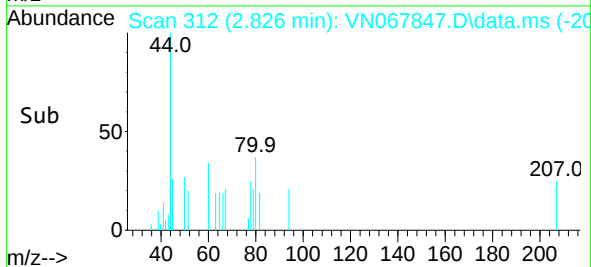
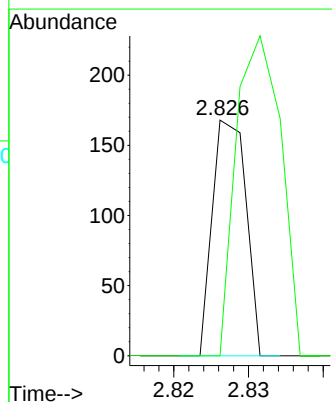
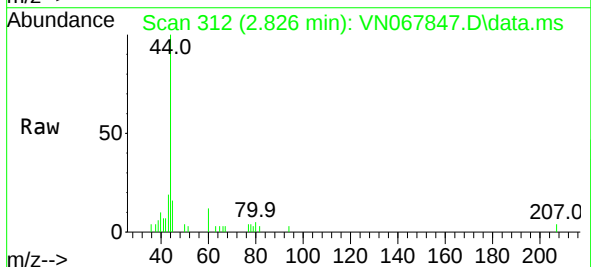
Instrument :
MSVOA_N
ClientSampleId :

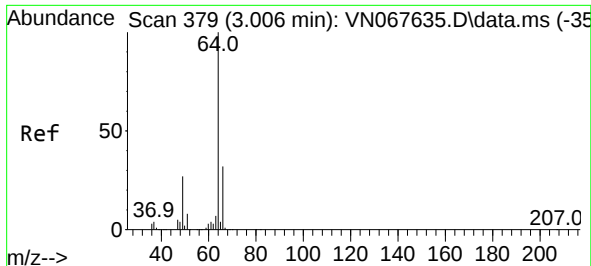
Tgt Ion:168 Resp: 295009
Ion Ratio Lower Upper
168 100
99 65.1 62.9 94.3



#5
Bromomethane
Concen: Below Cal
RT: 2.826 min Scan# 312
Delta R.T. -0.006 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

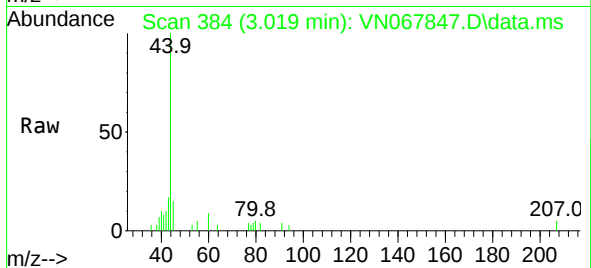
Tgt Ion: 94 Resp: 53
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#



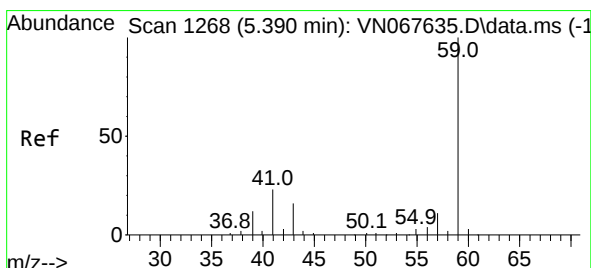
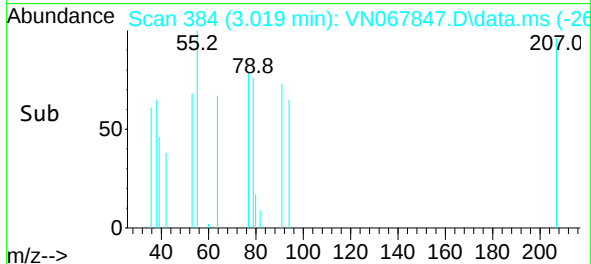
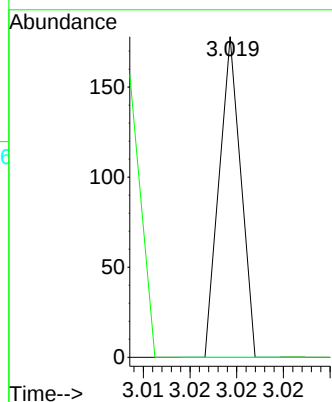


#6
Chloroethane
Concen: Below Cal
RT: 3.019 min Scan# 384
Delta R.T. 0.013 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Instrument :
MSVOA_N
ClientSampled :

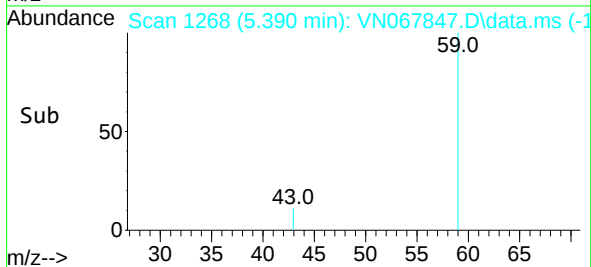
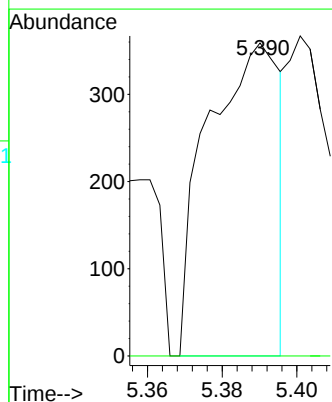
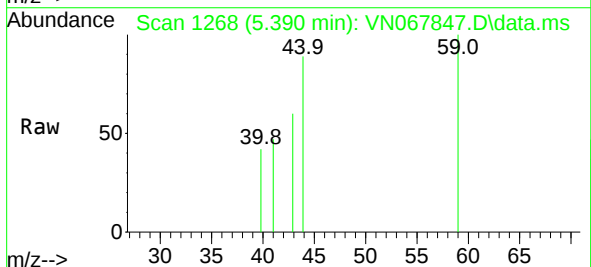


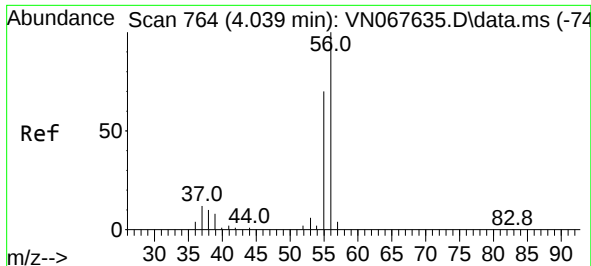
Tgt Ion: 64 Resp: 29
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.751 ug/l
RT: 5.390 min Scan# 1268
Delta R.T. 0.000 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 59 Resp: 481
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

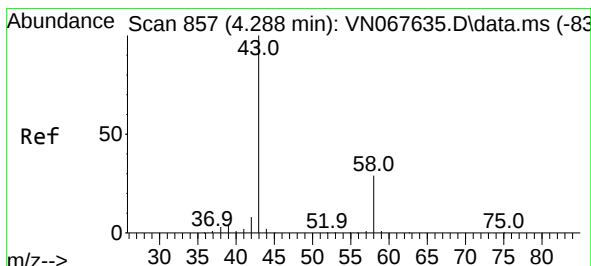
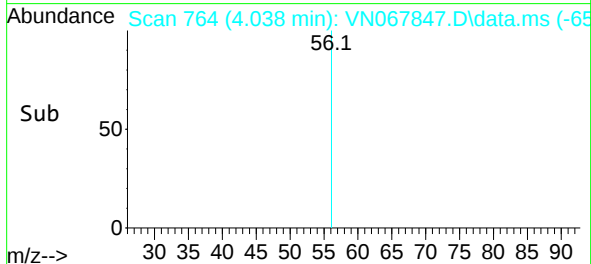
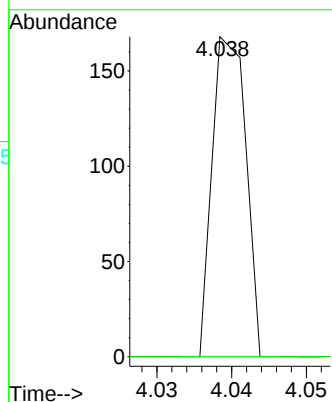
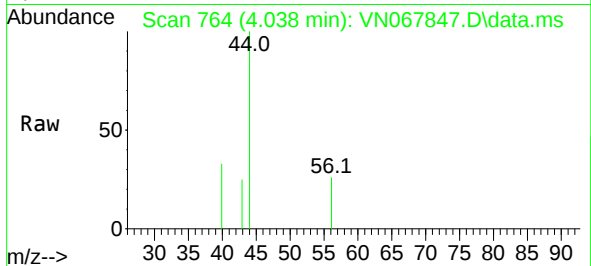




#13
Acrolein
Concen: Below Cal
RT: 4.038 min Scan# 764
Delta R.T. -0.001 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

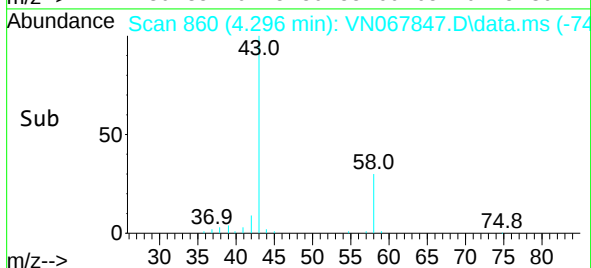
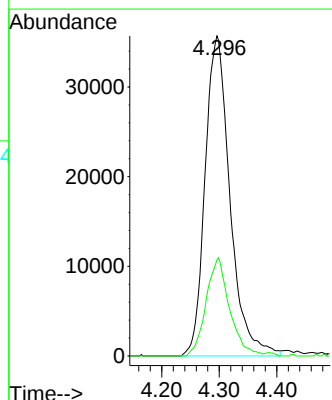
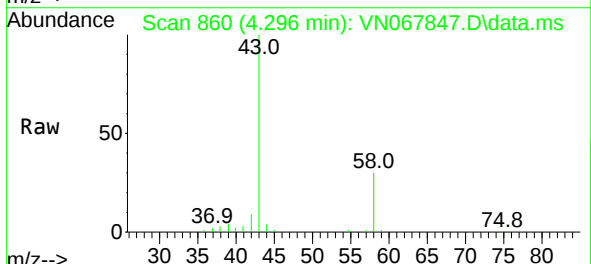
Instrument :
MSVOA_N
ClientSampled :

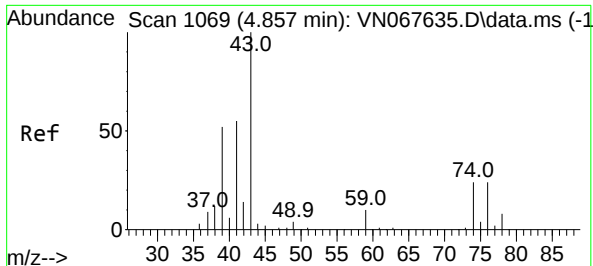
Tgt Ion: 56 Resp: 52
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: 76.691 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.008 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 43 Resp: 107590
Ion Ratio Lower Upper
43 100
58 30.1 21.2 31.8





#18

Methyl Acetate

Concen: 3.026 ug/l

RT: 4.864 min Scan# 1072

Delta R.T. 0.007 min

Lab File: VN067847.D

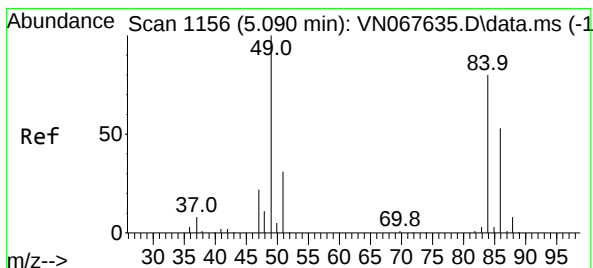
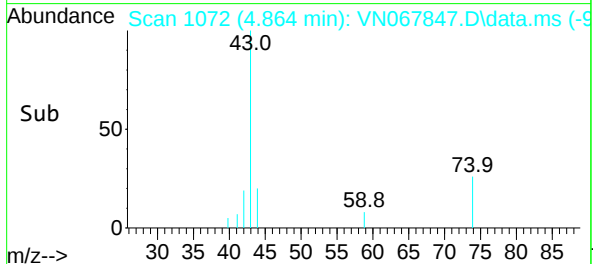
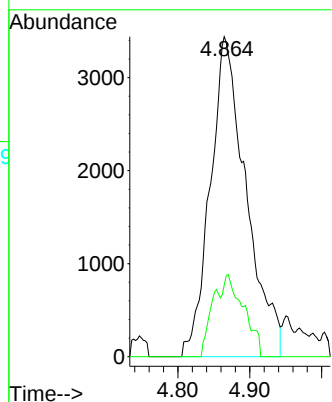
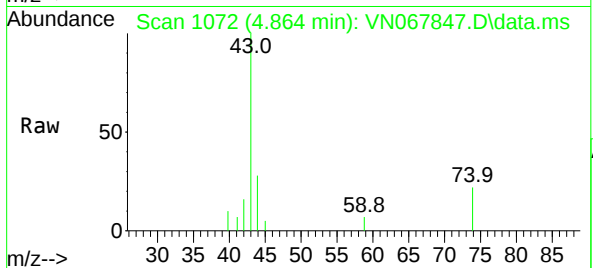
Acq: 21 Jul 2021 18:41

Tgt Ion: 43 Resp: 11923

Ion Ratio Lower Upper

43 100

74 14.0 17.4 26.0#



#20

Methylene Chloride

Concen: 9.582 ug/l

RT: 5.090 min Scan# 1156

Delta R.T. -0.000 min

Lab File: VN067847.D

Acq: 21 Jul 2021 18:41

Tgt Ion: 84 Resp: 33224

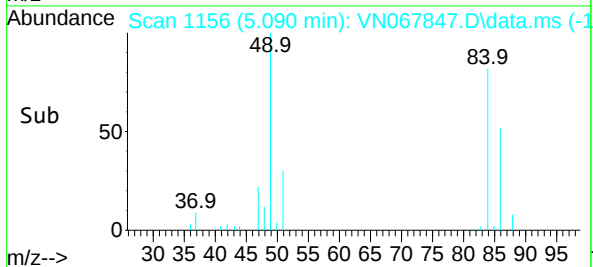
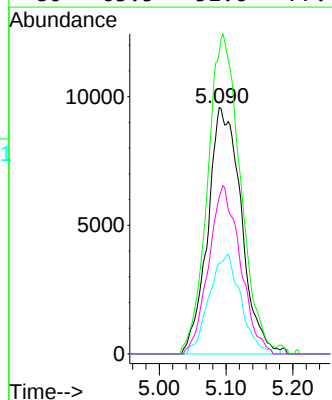
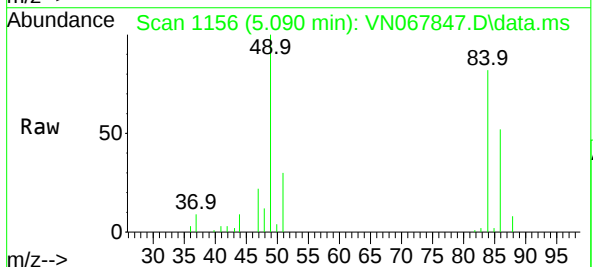
Ion Ratio Lower Upper

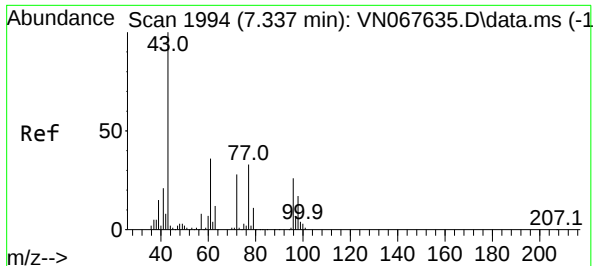
84 100

49 122.0 110.9 166.3

51 36.9 32.6 49.0

86 63.5 51.6 77.4

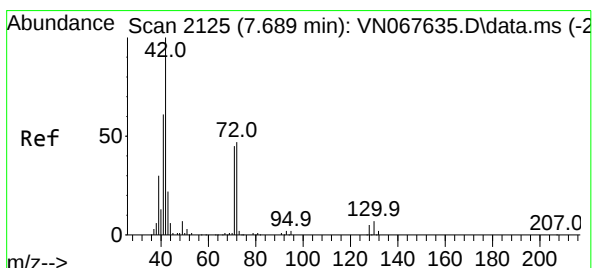
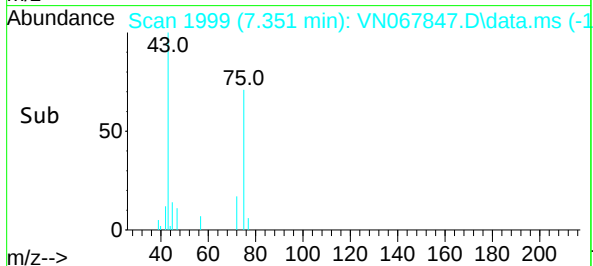
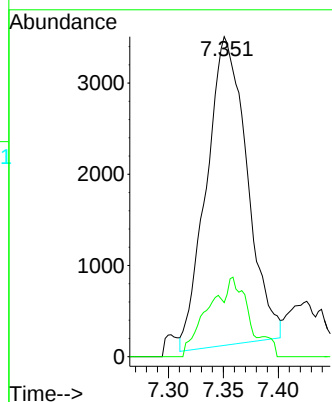
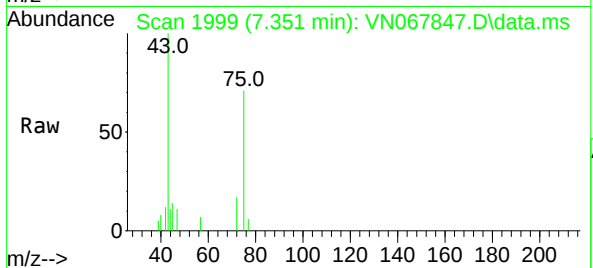




#25
2-Butanone
Concen: 3.716 ug/l
RT: 7.351 min Scan# 1999
Delta R.T. 0.014 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

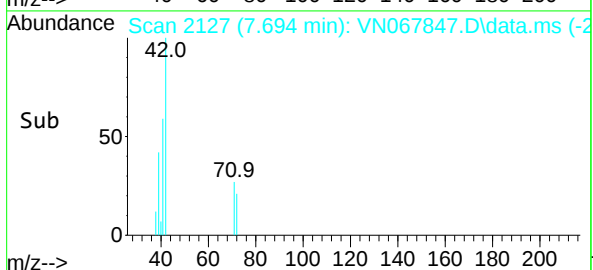
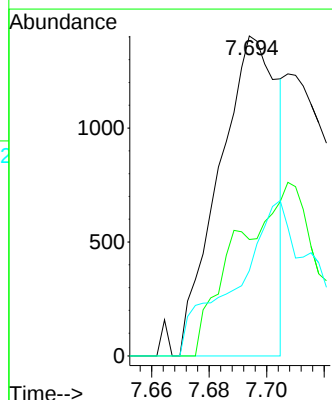
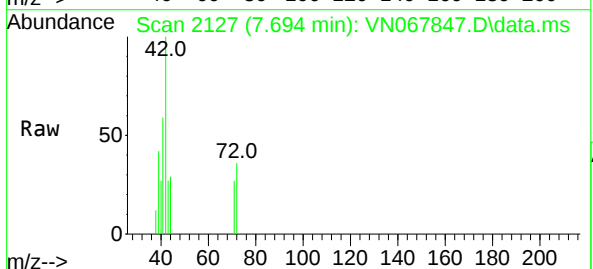
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ClientSampled :

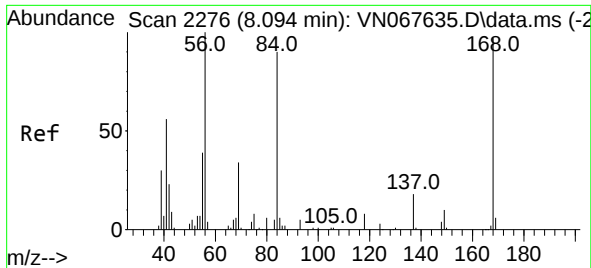
Tgt Ion: 43 Resp: 8656
Ion Ratio Lower Upper
43 100
72 18.0 19.7 29.5#



#29
Tetrahydrofuran
Concen: 1.288 ug/l
RT: 7.694 min Scan# 2127
Delta R.T. 0.005 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 42 Resp: 1973
Ion Ratio Lower Upper
42 100
72 22.7 32.8 49.2#
71 0.0 31.2 46.8#

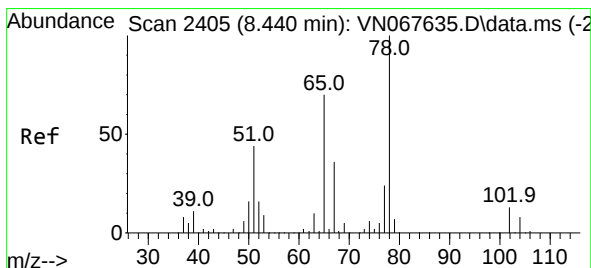
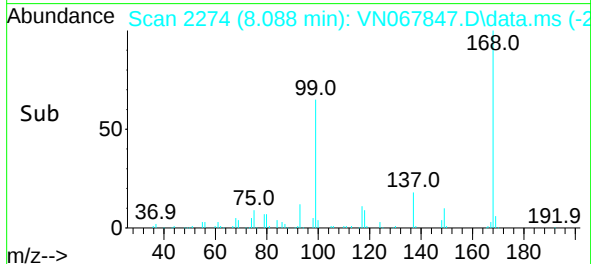
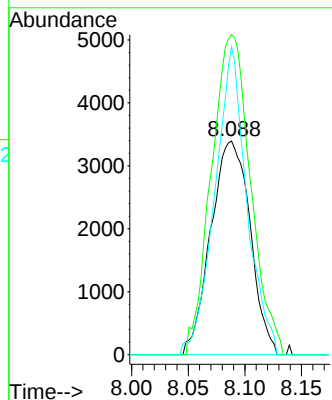
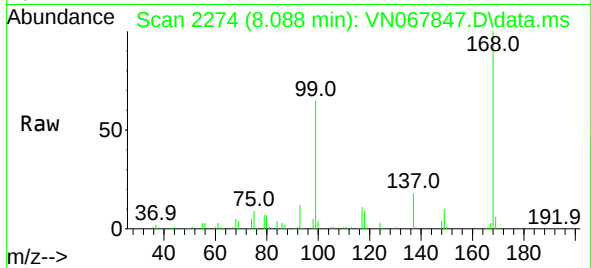




#31
Cyclohexane
Concen: 1.311 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.006 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

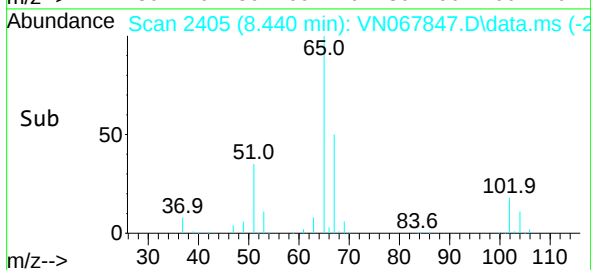
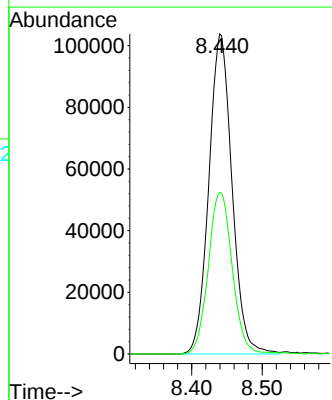
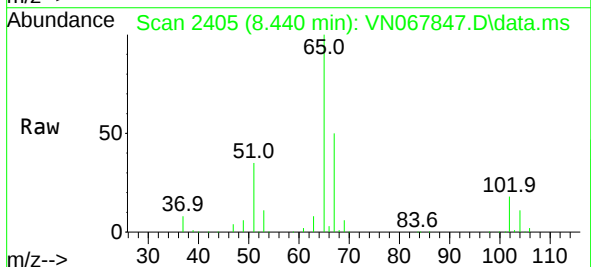
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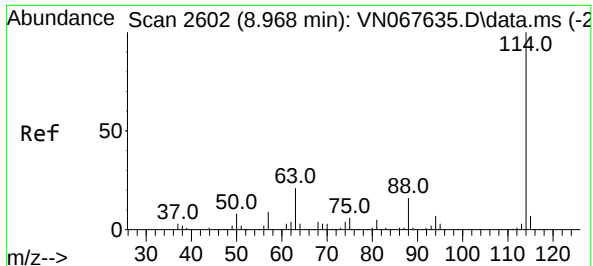
Tgt Ion: 56 Resp: 8198
Ion Ratio Lower Upper
56 100
69 149.9 27.3 40.9#
84 144.1 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 53.164 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 65 Resp: 237033
Ion Ratio Lower Upper
65 100
67 52.1 0.0 98.6

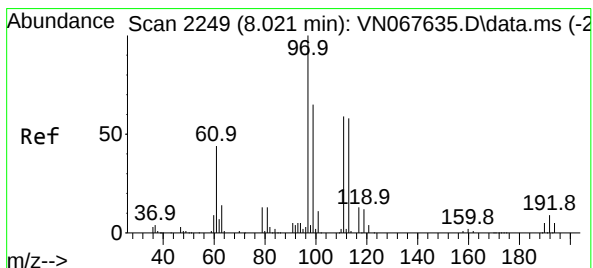
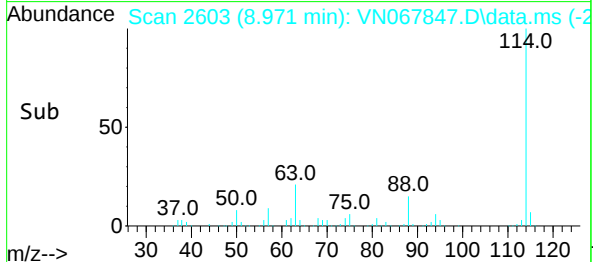
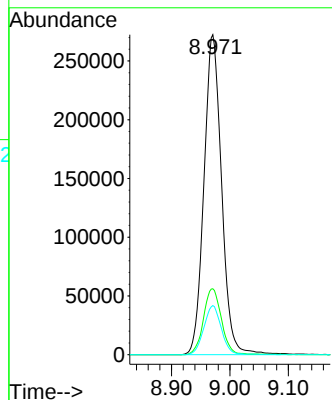
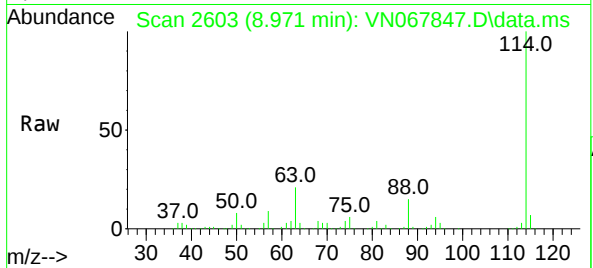




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

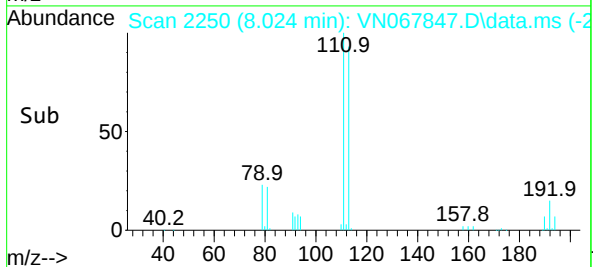
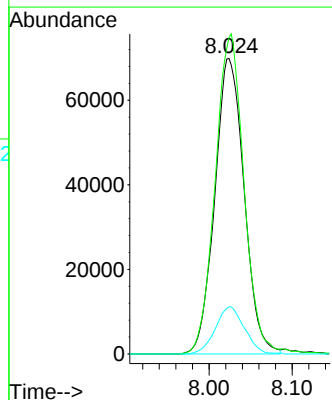
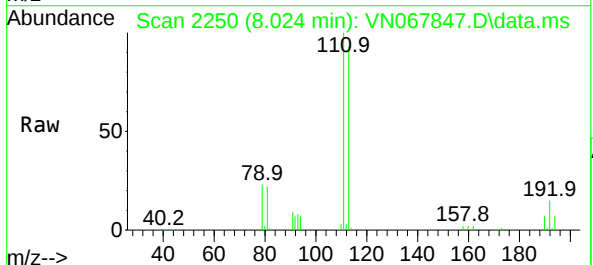
Instrument :
MSVOA_N
ClientSampleId :

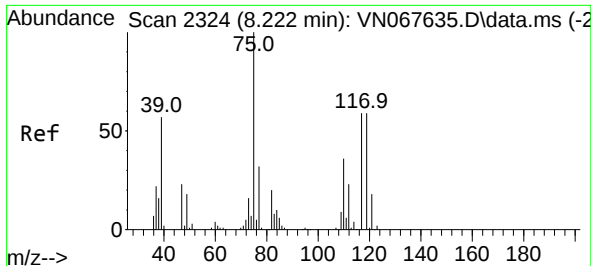
Tgt Ion:114 Resp: 572049
Ion Ratio Lower Upper
114 100
63 20.6 0.0 49.0
88 15.3 0.0 36.6



#35
Dibromofluoromethane
Concen: 49.577 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion:113 Resp: 171347
Ion Ratio Lower Upper
113 100
111 106.8 83.8 125.8
192 15.8 13.4 20.0

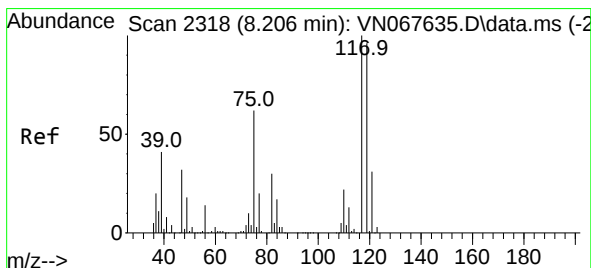
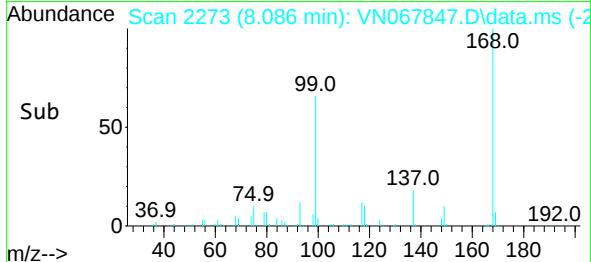
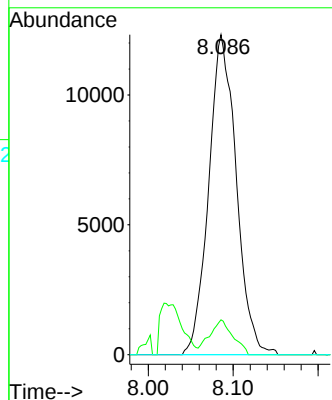
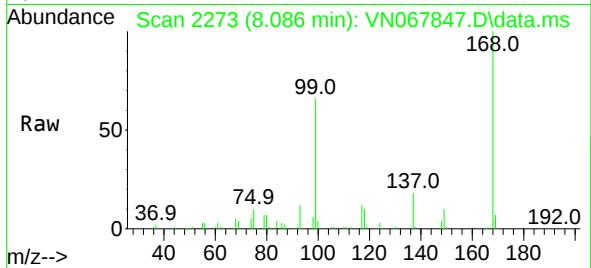




#36
1,1-Dichloropropene
Concen: 5.222 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

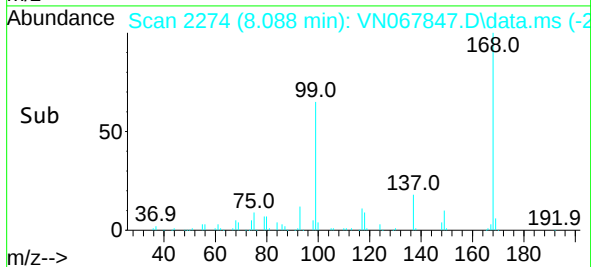
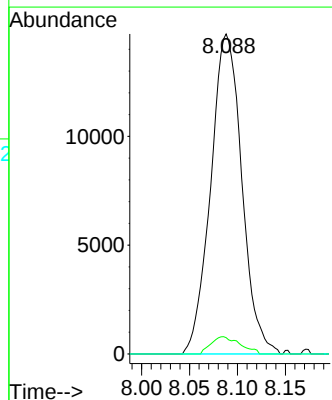
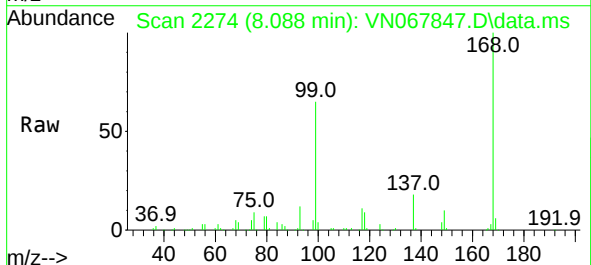
Instrument :
MSVOA_N
ClientSampleId :

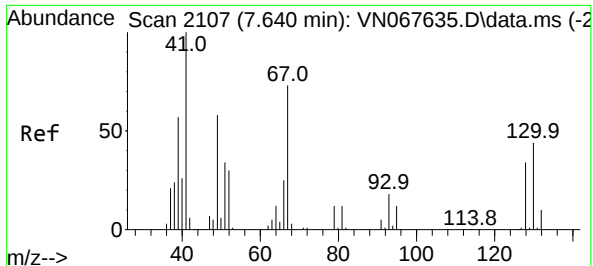
Tgt Ion: 75 Resp: 27748
Ion Ratio Lower Upper
75 100
110 9.2 15.7 47.0#
77 0.0 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 6.341 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 117 Resp: 33238
Ion Ratio Lower Upper
117 100
119 5.1 75.4 113.2#
121 0.0 23.5 35.3#

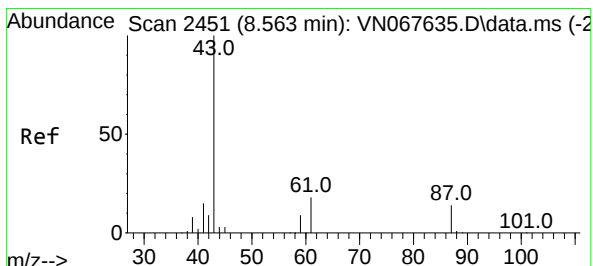
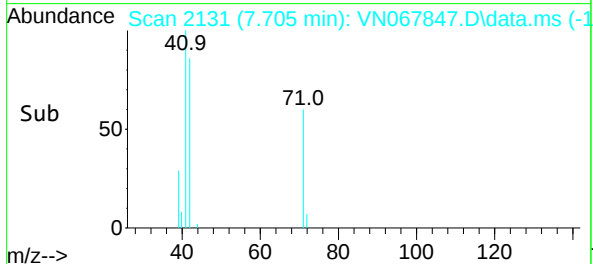
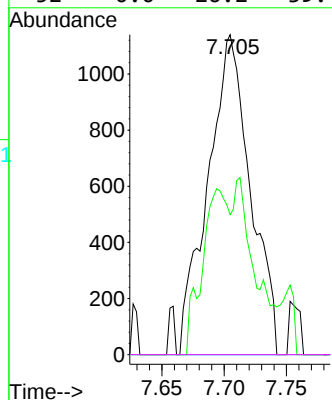
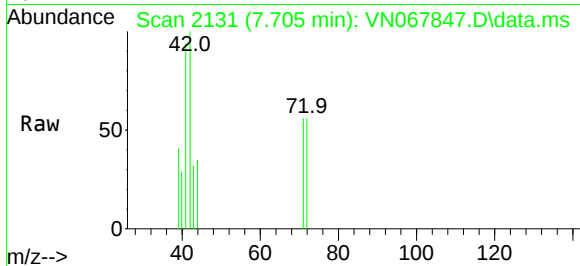




#41
Methacrylonitrile
Concen: 1.024 ug/l
RT: 7.705 min Scan# 2131
Delta R.T. 0.065 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

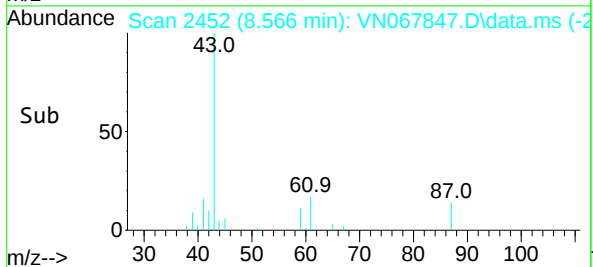
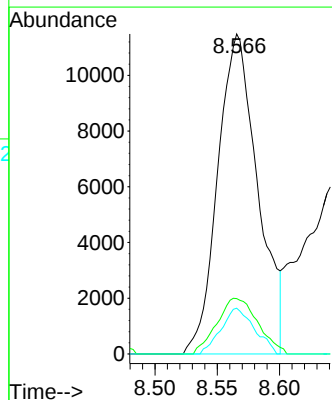
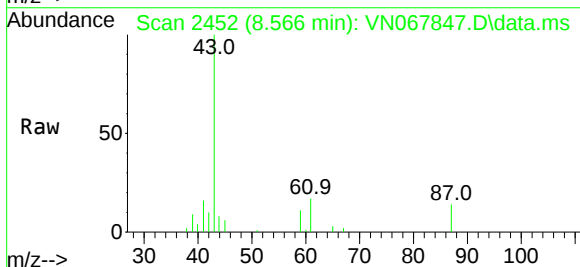
Instrument :
MSVOA_N
ClientSampled :

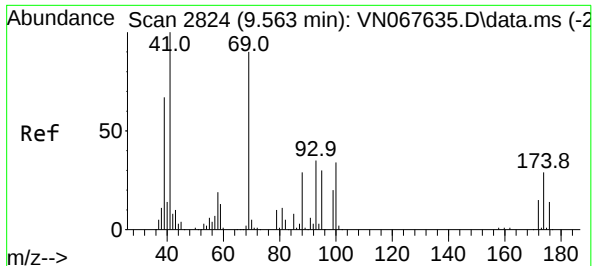
Tgt Ion: 41	Resp: 2710
Ion Ratio	Lower Upper
41 100	
39 32.7	47.6 71.4#
67 0.0	57.7 86.5#
52 0.0	26.2 39.4#



#43
Isopropyl Acetate
Concen: 2.834 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.003 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 43	Resp: 25664
Ion Ratio	Lower Upper
43 100	
61 17.8	19.0 28.4#
87 12.0	9.5 14.3

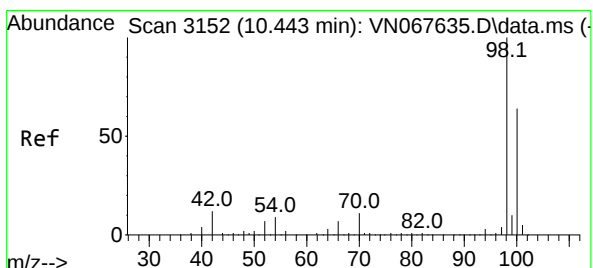
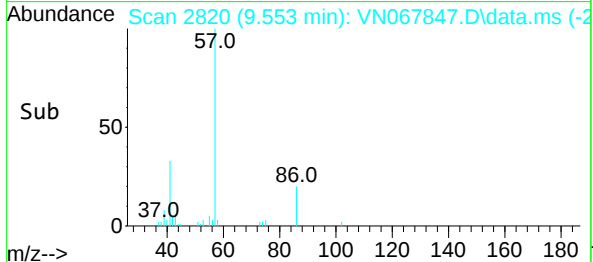
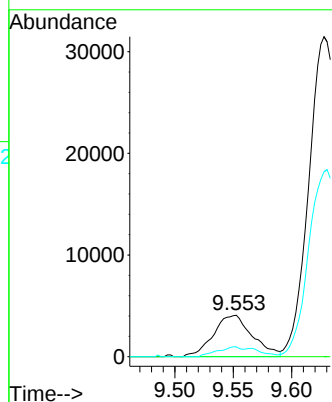
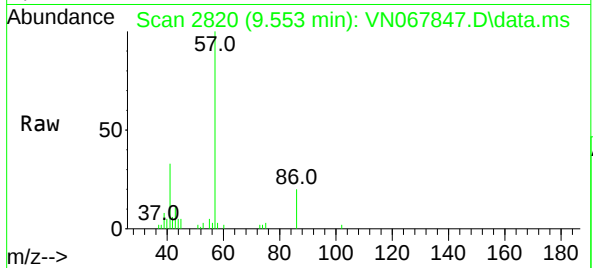




#48
Methyl methacrylate
Concen: 2.361 ug/l
RT: 9.553 min Scan# 2820
Delta R.T. -0.010 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

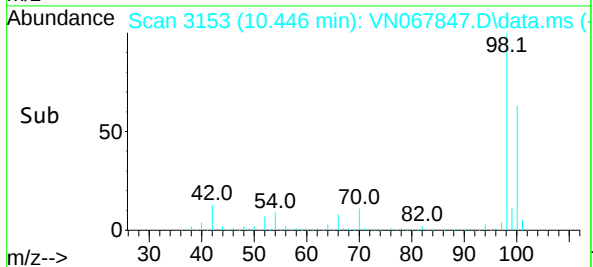
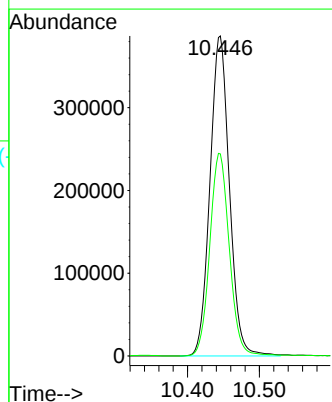
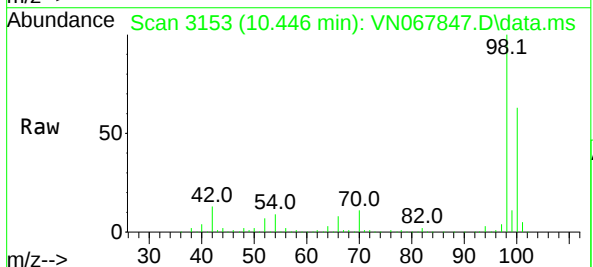
Instrument :
MSVOA_N
ClientSampleId :

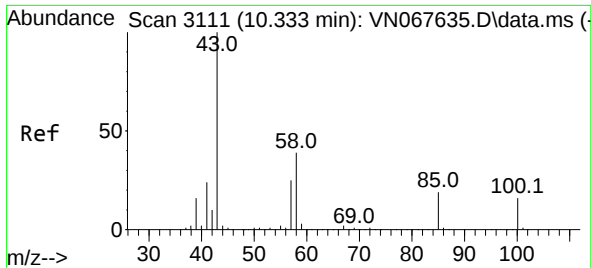
Tgt Ion: 41 Resp: 9456
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 14.6 53.3 79.9#



#50
Toluene-d8
Concen: 50.246 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 98 Resp: 726897
Ion Ratio Lower Upper
98 100
100 63.6 51.7 77.5

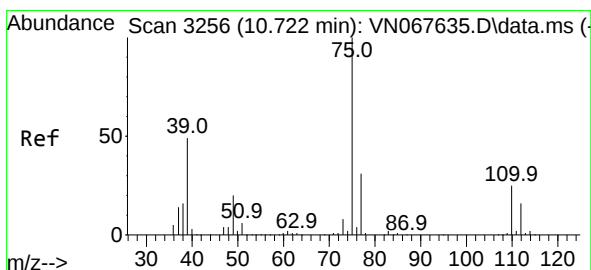
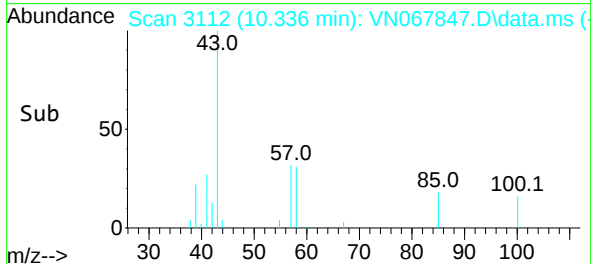
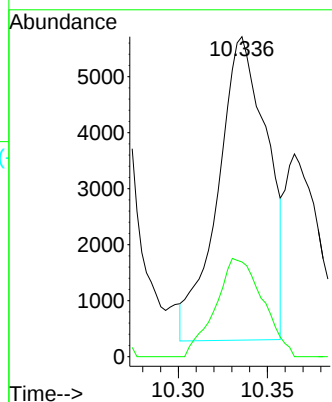
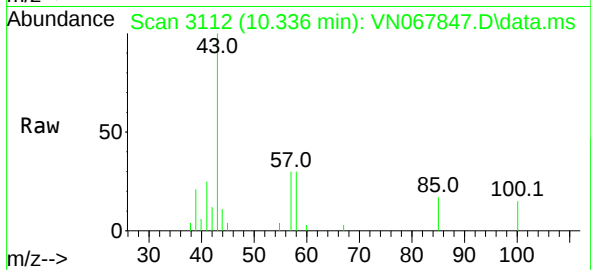




#51
4-Methyl-2-Pentanone
Concen: 1.879 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

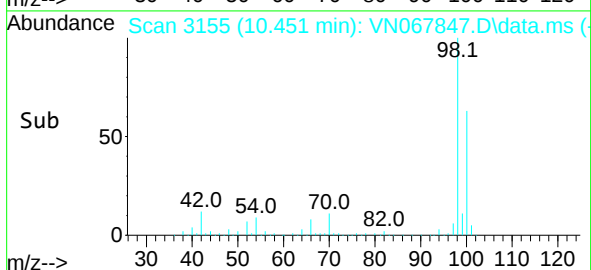
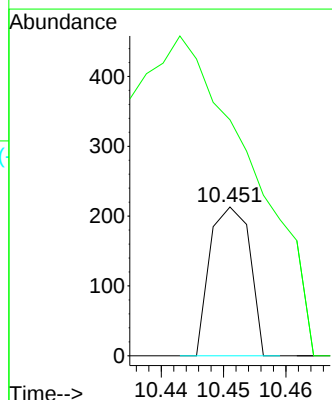
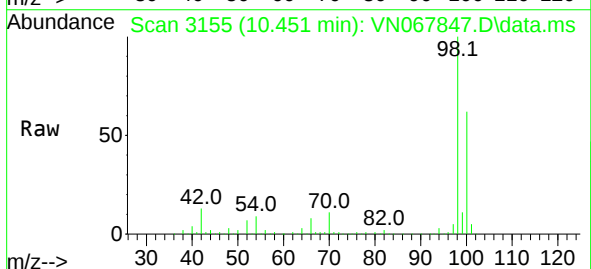
Instrument :
MSVOA_N
ClientSampled :

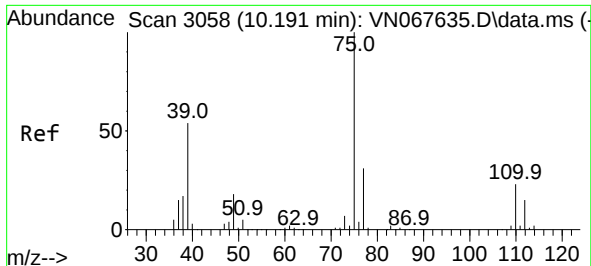
Tgt Ion: 43 Resp: 10457
Ion Ratio Lower Upper
43 100
58 31.0 28.6 43.0



#53
t-1,3-Dichloropropene
Concen: 1.758 ug/l
RT: 10.451 min Scan# 3155
Delta R.T. -0.271 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 75 Resp: 94
Ion Ratio Lower Upper
75 100
77 67.1 25.1 37.7#

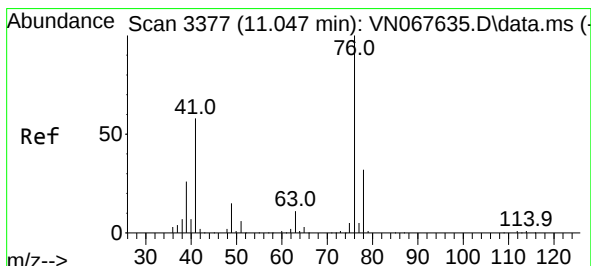
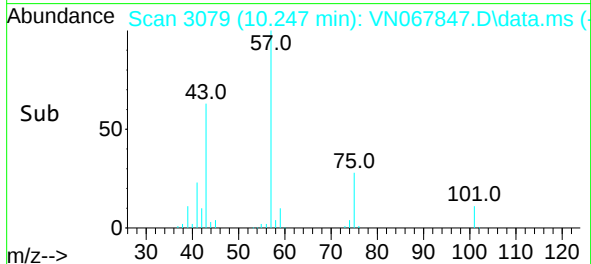
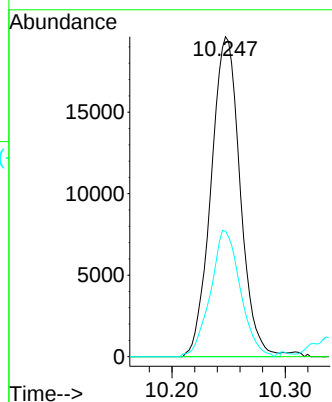
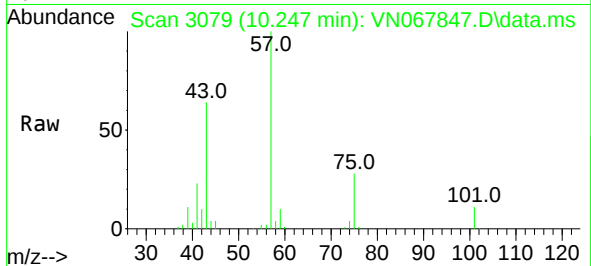




#54
cis-1,3-Dichloropropene
Concen: 5.618 ug/l
RT: 10.247 min Scan# 3079
Delta R.T. 0.056 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

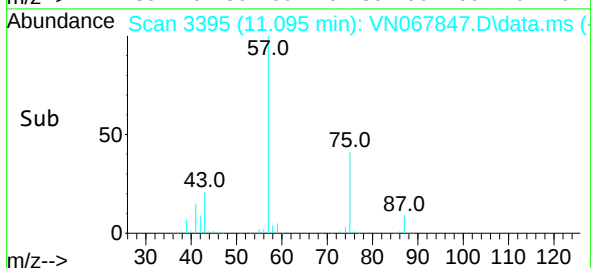
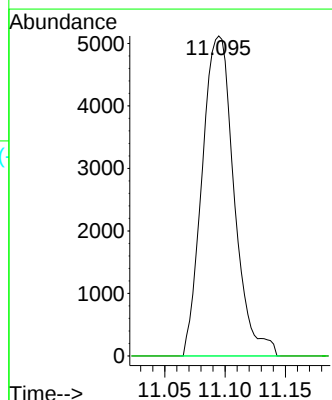
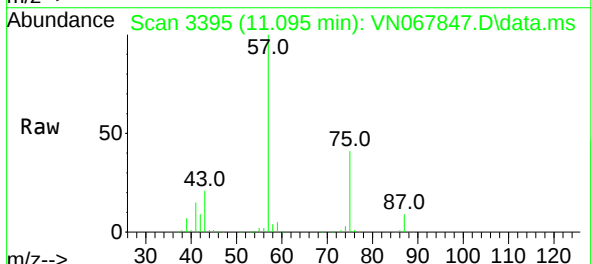
Instrument :
MSVOA_N
ClientSampled :

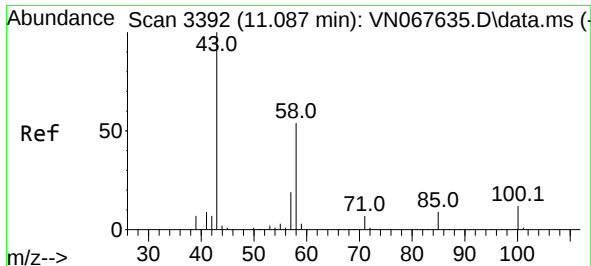
Tgt Ion: 75 Resp: 34904
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
39 39.3 50.7 76.1#



#57
1,3-Dichloropropane
Concen: 1.376 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.048 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 76 Resp: 9423
Ion Ratio Lower Upper
76 100
78 0.0 25.7 38.5#

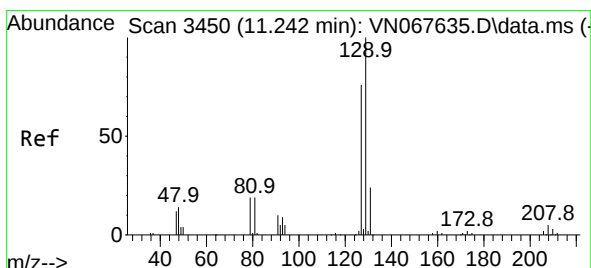
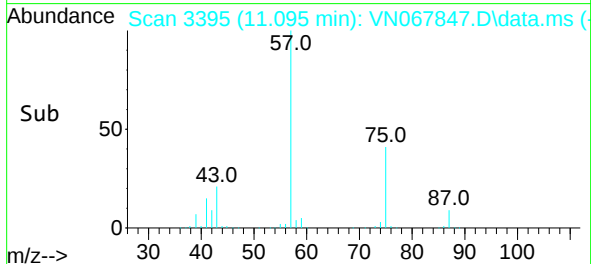
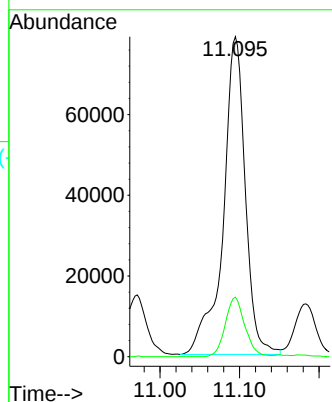
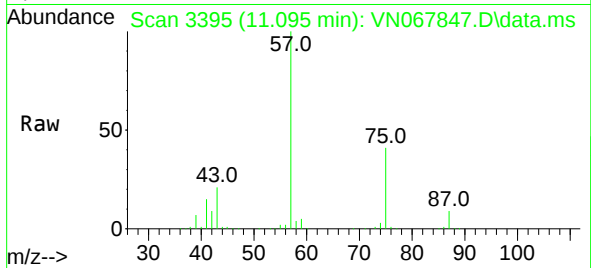




#59
2-Hexanone
Concen: 39.151 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

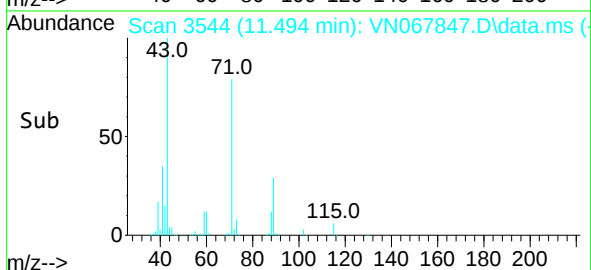
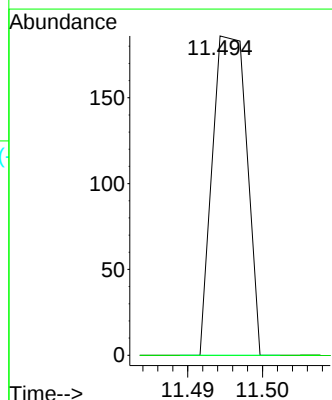
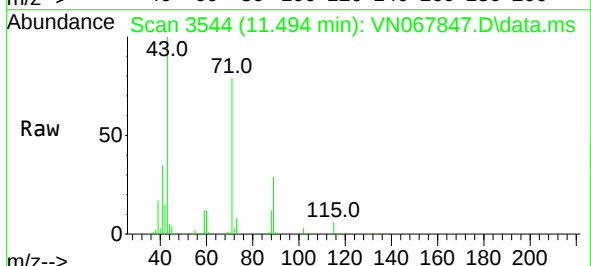
Instrument :
MSVOA_N
ClientSampled :

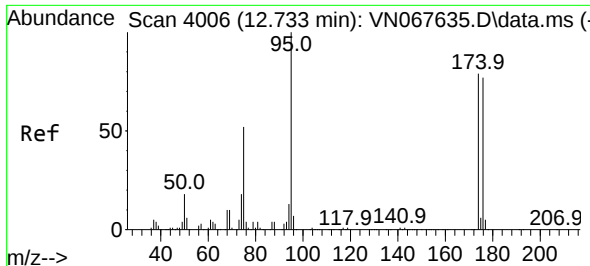
Tgt Ion: 43 Resp: 152053
Ion Ratio Lower Upper
43 100
58 16.6 24.7 74.1#



#60
Dibromochloromethane
Concen: 2.368 ug/l
RT: 11.494 min Scan# 3544
Delta R.T. 0.252 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 129 Resp: 59
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

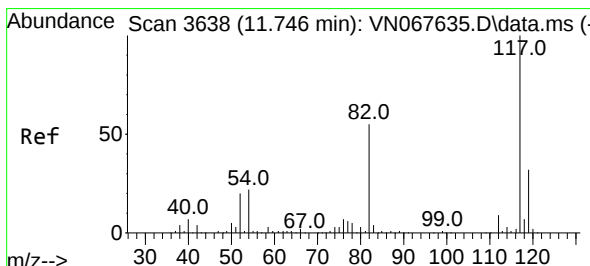
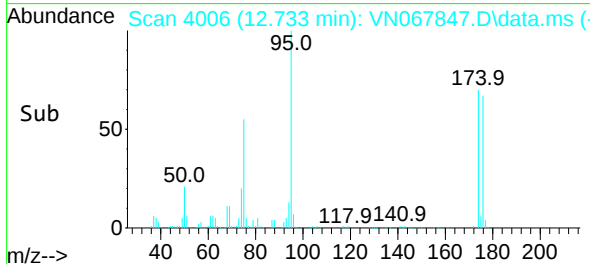
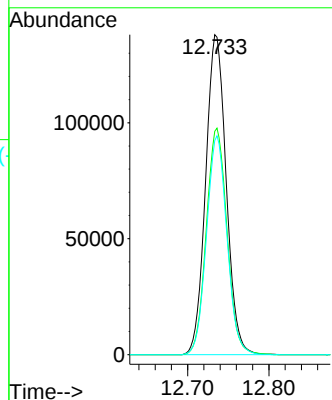
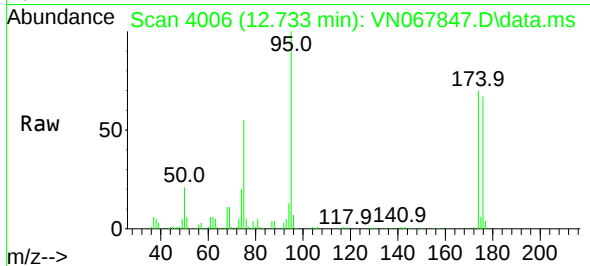




#62
4-Bromofluorobenzene
Concen: 47.439 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

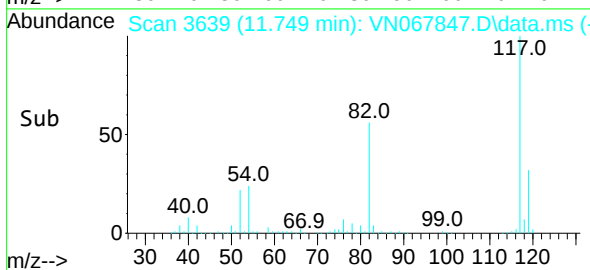
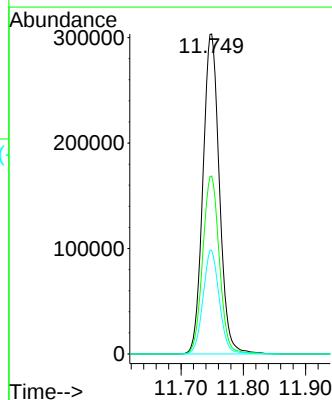
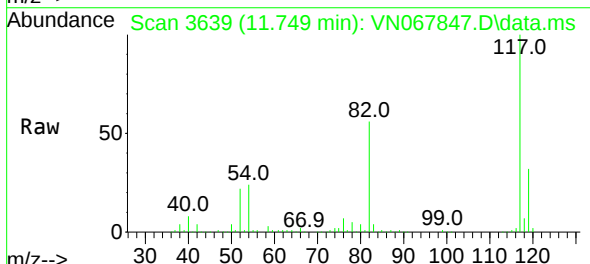
Instrument :
MSVOA_N
ClientSampleId :

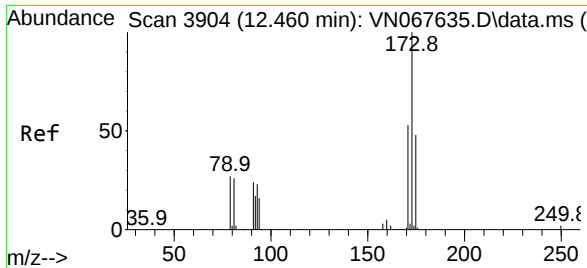
Tgt Ion: 95 Resp: 242434
Ion Ratio Lower Upper
95 100
174 71.4 0.0 122.0
176 67.9 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion: 117 Resp: 556443
Ion Ratio Lower Upper
117 100
82 55.6 53.1 79.7
119 32.4 25.5 38.3

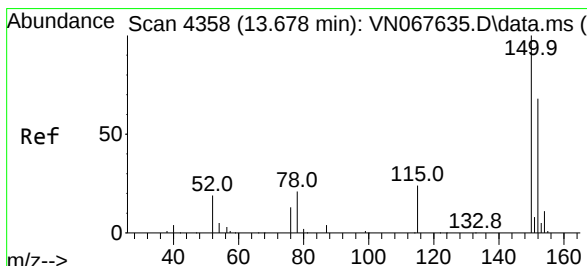
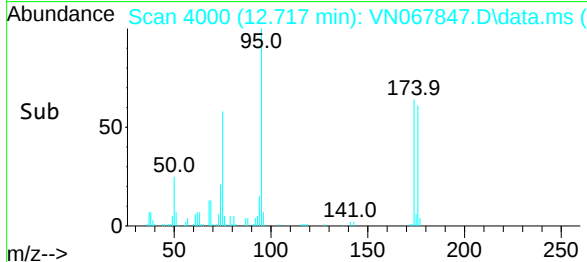
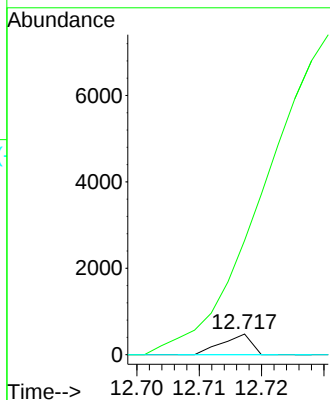
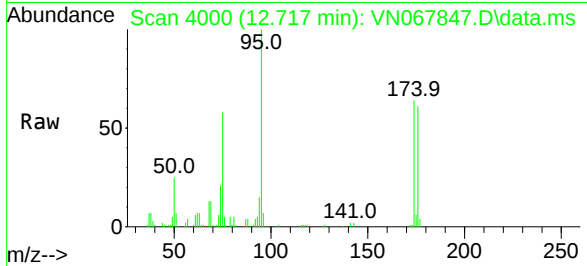




#71
Bromoform
Concen: 3.217 ug/l
RT: 12.717 min Scan# 4000
Delta R.T. 0.257 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

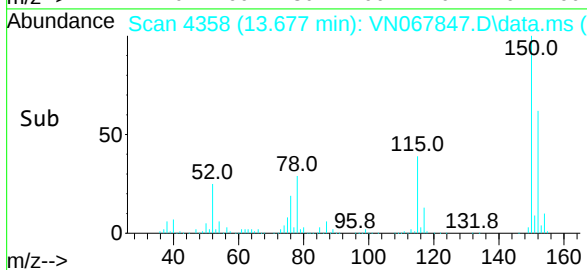
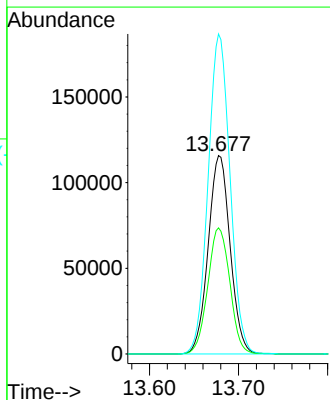
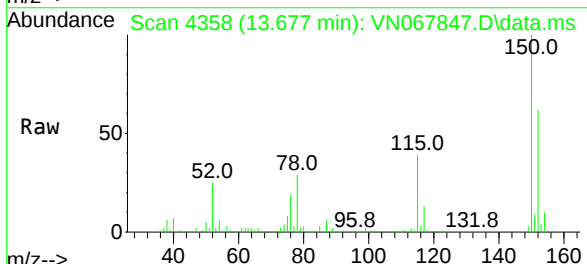
Instrument :
MSVOA_N
ClientSampleId :

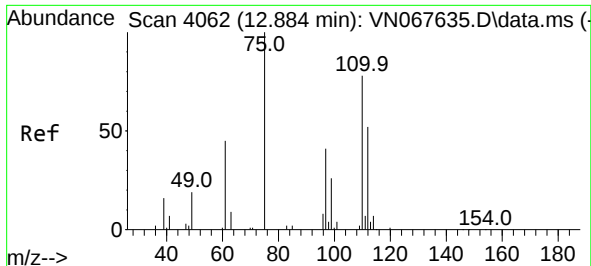
Tgt Ion:173 Resp: 156
Ion Ratio Lower Upper
173 100
175 8130.8 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. -0.000 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

Tgt Ion:152 Resp: 198477
Ion Ratio Lower Upper
152 100
115 63.9 36.1 108.5
150 160.8 0.0 351.8

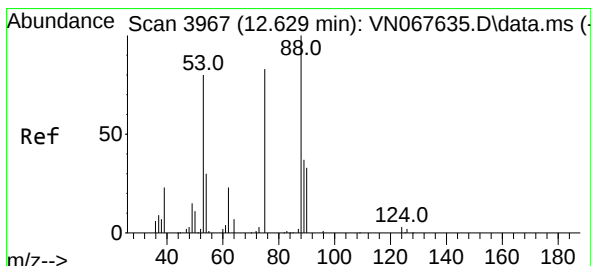
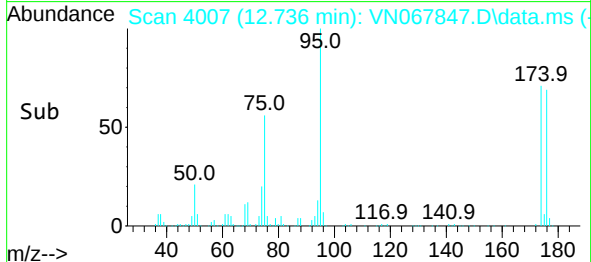
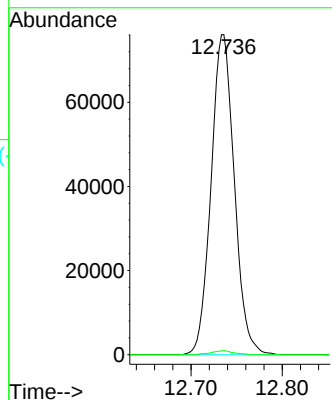
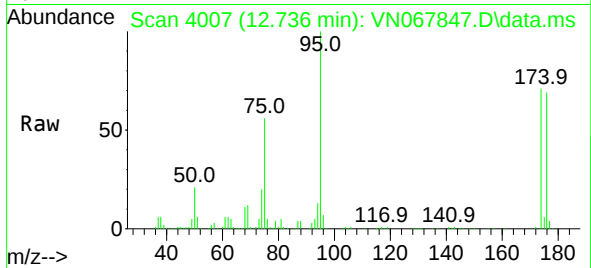




#76
1,2,3-Trichloropropane
Concen: 33.238 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. -0.148 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

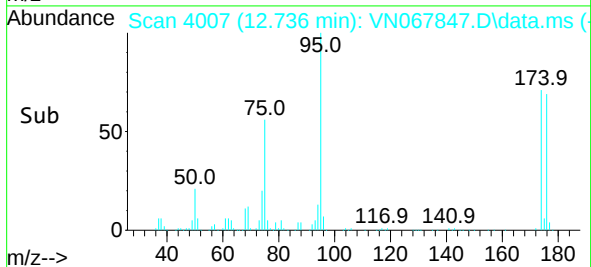
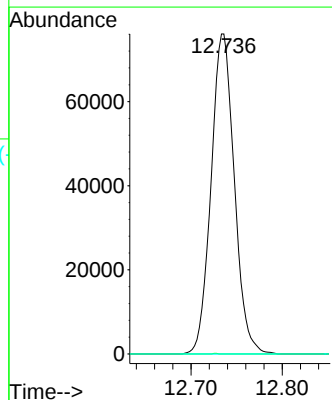
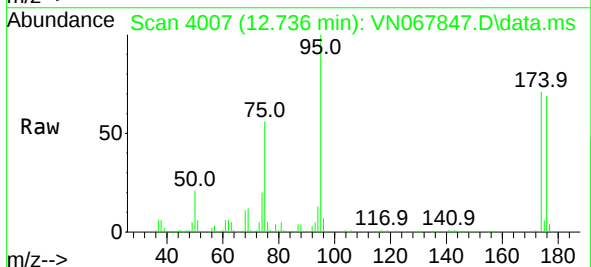
Instrument :
MSVOA_N
ClientSampled :

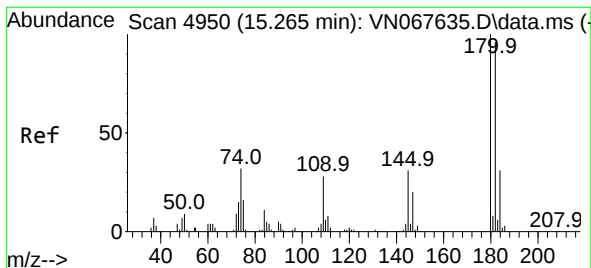
Tgt Ion: 75 Resp: 134723
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 107.163 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.107 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

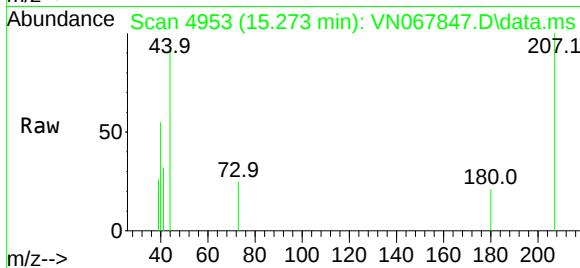
Tgt Ion: 75 Resp: 134723
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



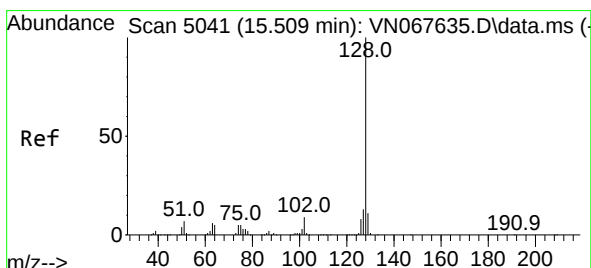
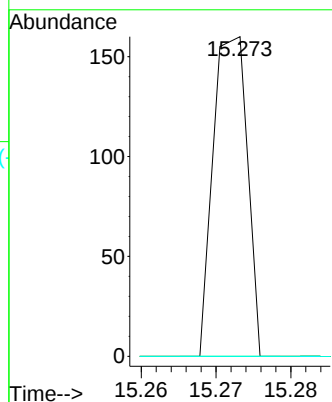
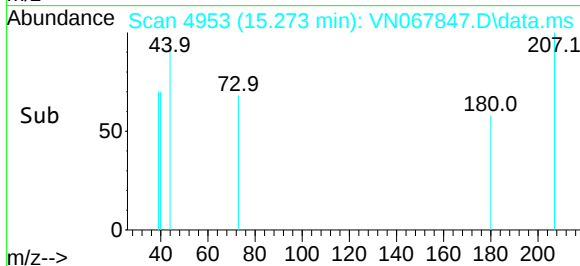


#93
1,2,4-Trichlorobenzene
Concen: 2.689 ug/l
RT: 15.273 min Scan# 4953
Delta R.T. 0.008 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41

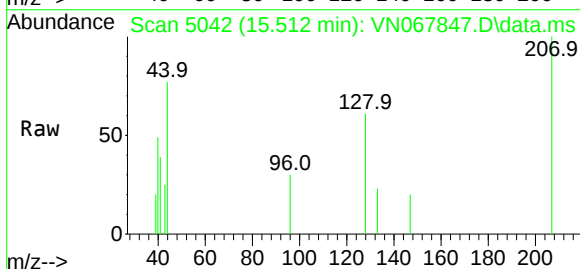
Instrument :
MSVOA_N
ClientSampled :



Tgt Ion:180 Resp: 51
Ion Ratio Lower Upper
180 100
182 0.0 47.5 142.5#
145 0.0 17.2 51.6#



#95
Naphthalene
Concen: 3.077 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.003 min
Lab File: VN067847.D
Acq: 21 Jul 2021 18:41



Tgt Ion:128 Resp: 674
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

