

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072021\
 Data File : VN067824.D
 Acq On : 20 Jul 2021 18:01
 Operator : JC/MD
 Sample : PB137795ZHE#05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 21 05:10:17 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)

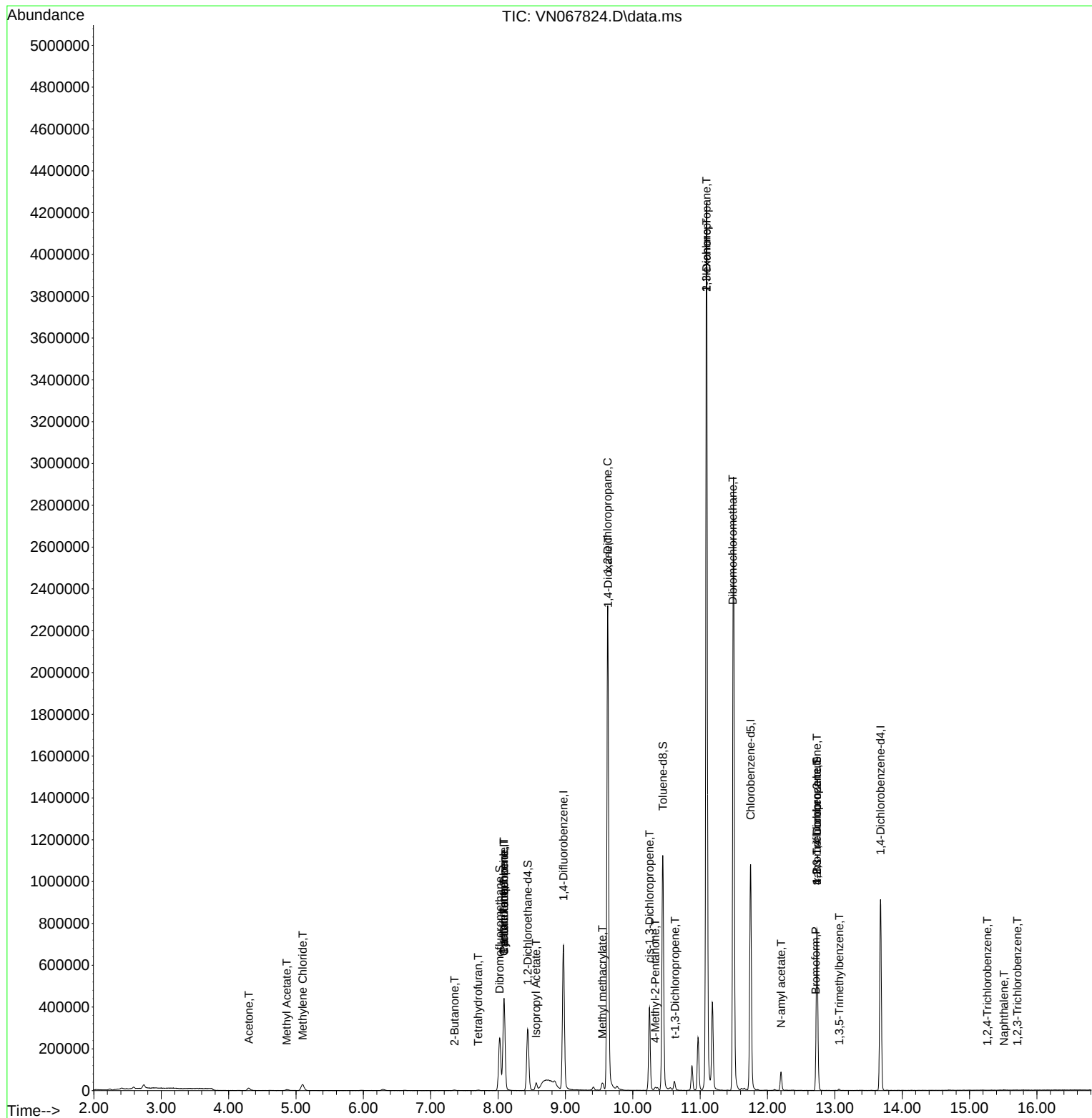
Internal Standards						
1) Pentafluorobenzene	8.088	168	313070	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	606076	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	624469	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	233848	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	250268	52.895	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 105.780%			
35) Dibromofluoromethane	8.024	113	183678	50.161	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 100.320%			
50) Toluene-d8	10.446	98	785220	51.230	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.733	95	273326	50.481	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 100.960%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.824	94	166	Below Cal	#	4
6) Chloroethane	3.113	64	54	Below Cal	#	44
13) Acrolein	4.063	56	154	Below Cal	#	14
16) Acetone	4.299	43	22425	15.063	ug/l	97
18) Methyl Acetate	4.864	43	6671	1.595	ug/l	93
20) Methylene Chloride	5.098	84	22026	5.721	ug/l	90
25) 2-Butanone	7.353	43	5055	2.045	ug/l #	88
29) Tetrahydrofuran	7.705	42	1255	0.772	ug/l #	70
31) Cyclohexane	8.086	56	8361	1.260	ug/l #	1
36) 1,1-Dichloropropene	8.088	75	28630	5.085	ug/l #	51
38) Carbon Tetrachloride	8.086	117	34395	6.194	ug/l #	17
43) Isopropyl Acetate	8.566	43	40273	4.197	ug/l	93
45) 1,2-Dichloropropane	9.625	63	3053	0.716	ug/l #	44
48) Methyl methacrylate	9.547	41	8269	1.948	ug/l #	12
49) 1,4-Dioxane	9.633	88	212	34.563	ug/l #	1
51) 4-Methyl-2-Pentanone	10.336	43	10355	1.757	ug/l	98
53) t-1,3-Dichloropropene	10.625	75	51	1.751	ug/l #	43
54) cis-1,3-Dichloropropene	10.247	75	69779	10.602	ug/l #	59
57) 1,3-Dichloropropane	11.095	76	44468	6.130	ug/l #	43
59) 2-Hexanone	11.095	43	652386	158.549	ug/l #	54
60) Dibromochloromethane	11.486	129	367	2.424	ug/l #	11
71) Bromoform	12.717	173	202	3.223	ug/l #	1
74) N-amyl acetate	12.200	43	26989	3.943	ug/l #	57
76) 1,2,3-Trichloropropane	12.733	75	154125	32.273	ug/l #	100
80) 1,3,5-Trimethylbenzene	13.066	105	3729	0.244	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.733	75	154125	104.053	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.265	180	119	2.703	ug/l #	28
95) Naphthalene	15.512	128	1391	3.126	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.708	180	135	2.667	ug/l #	79

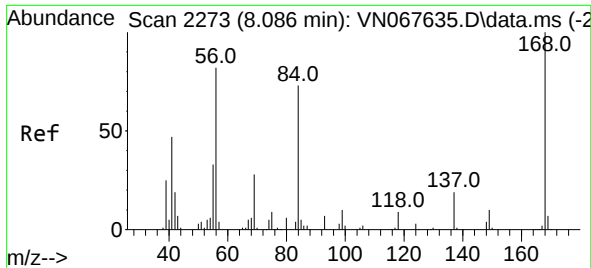
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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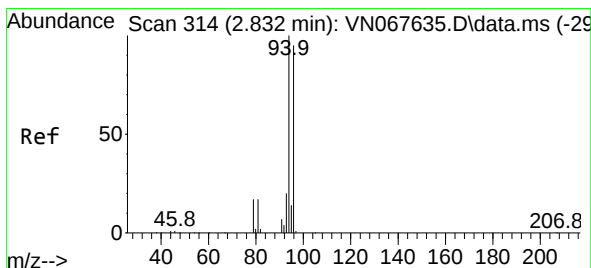
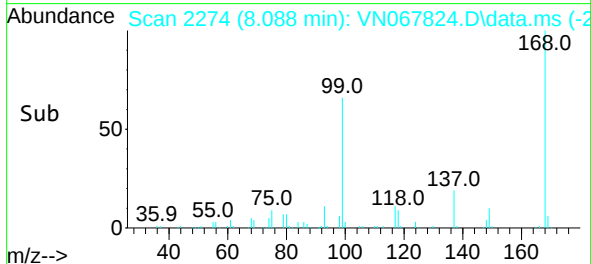
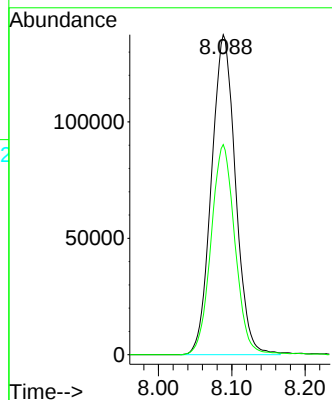
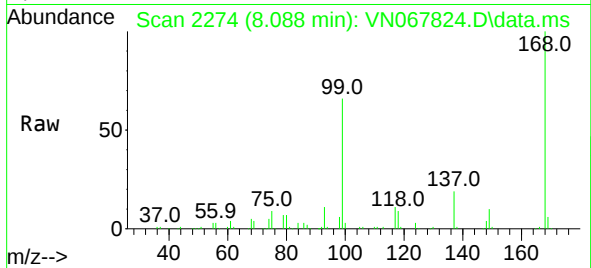




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

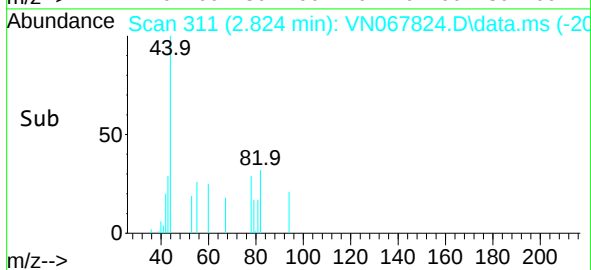
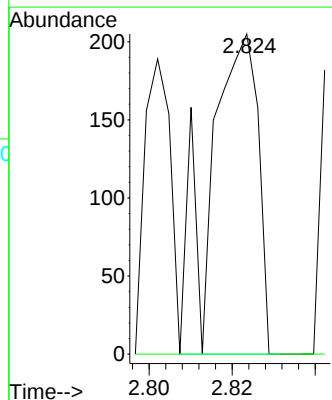
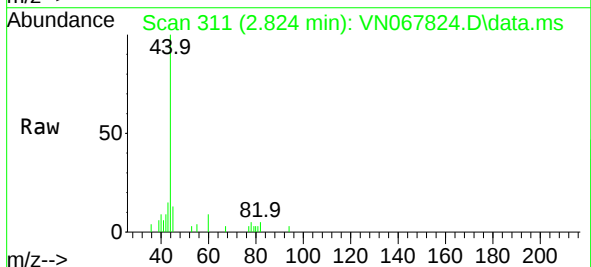
Instrument :
MSVOA_N
ClientSampleId :

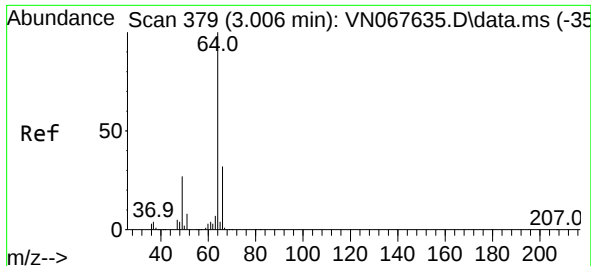
Tgt Ion:168 Resp: 313070
Ion Ratio Lower Upper
168 100
99 65.7 62.9 94.3



#5
Bromomethane
Concen: Below Cal
RT: 2.824 min Scan# 311
Delta R.T. -0.008 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 94 Resp: 166
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#

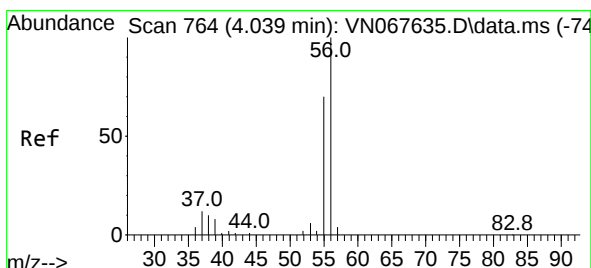
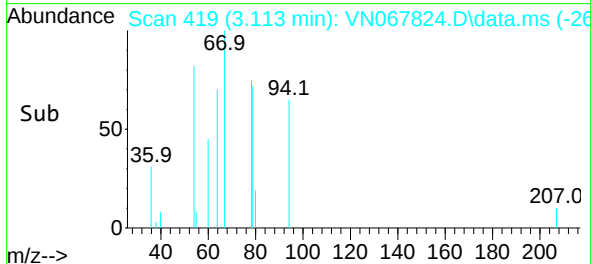
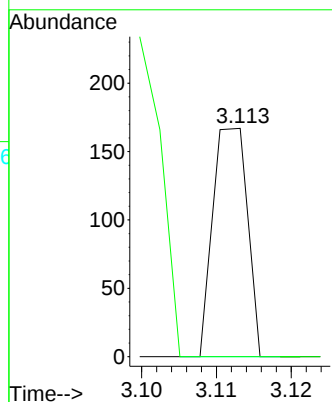
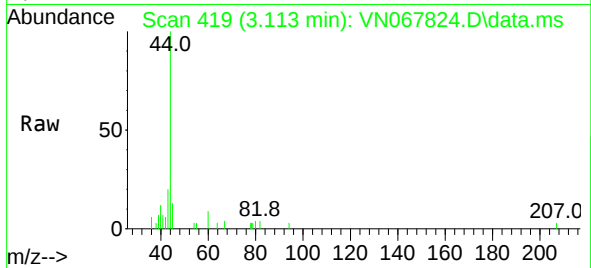




#6
Chloroethane
Concen: Below Cal
RT: 3.113 min Scan# 419
Delta R.T. 0.107 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

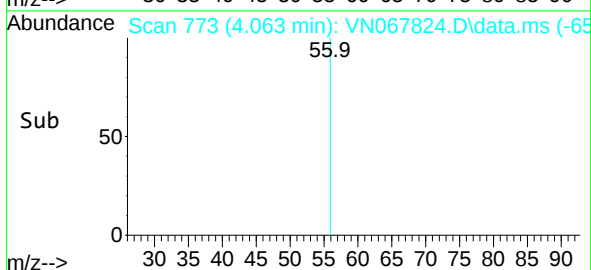
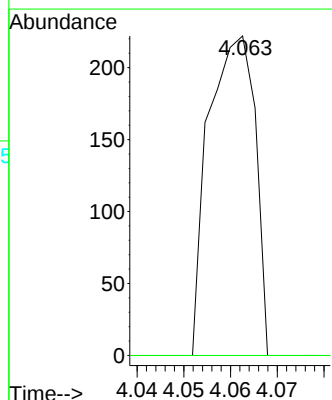
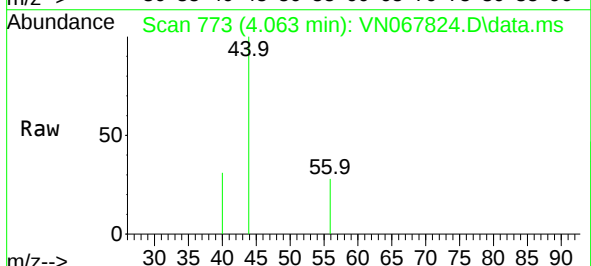
Instrument :
MSVOA_N
ClientSampled :

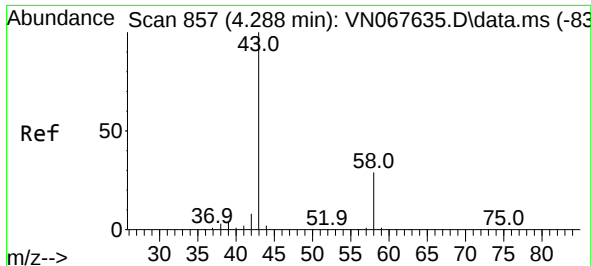
Tgt Ion: 64 Resp: 54
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#13
Acrolein
Concen: Below Cal
RT: 4.063 min Scan# 773
Delta R.T. 0.024 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 56 Resp: 154
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#

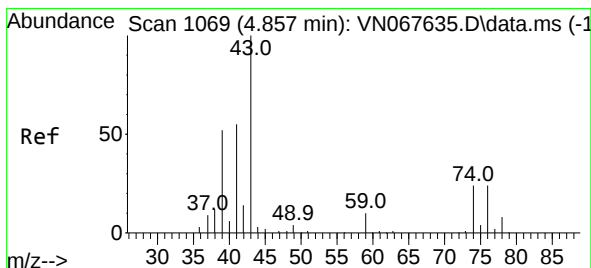
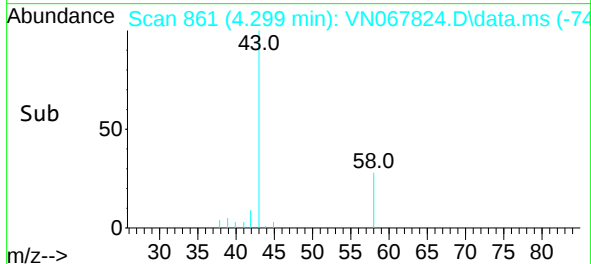
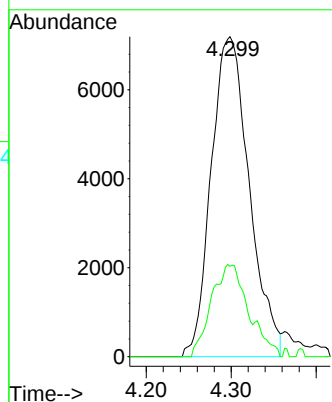
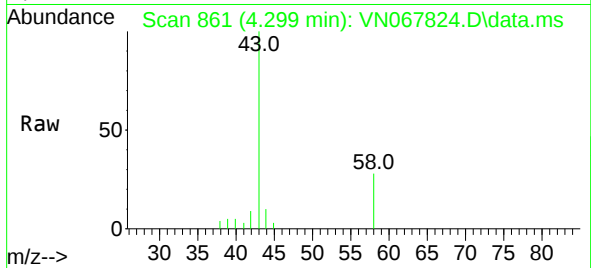




#16
Acetone
Concen: 15.063 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.011 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

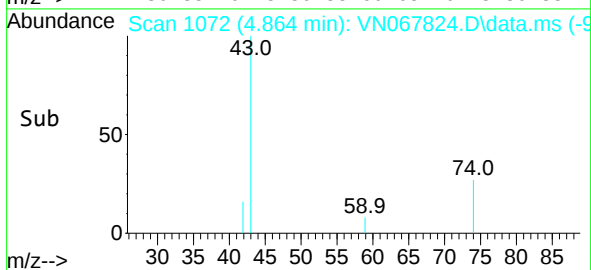
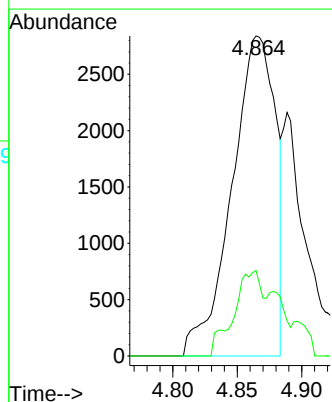
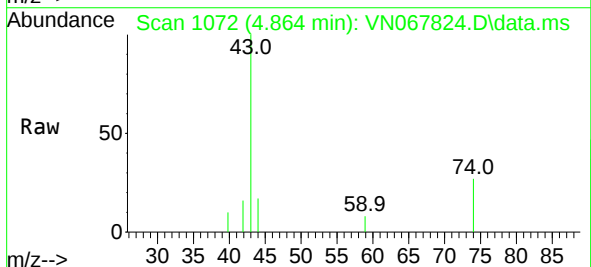
Instrument :
MSVOA_N
ClientSampled :

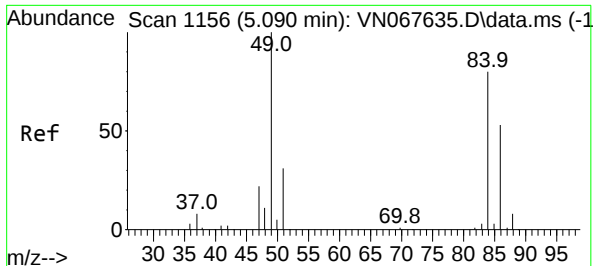
Tgt Ion: 43 Resp: 22425
Ion Ratio Lower Upper
43 100
58 28.2 21.2 31.8



#18
Methyl Acetate
Concen: 1.595 ug/l
RT: 4.864 min Scan# 1072
Delta R.T. 0.007 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

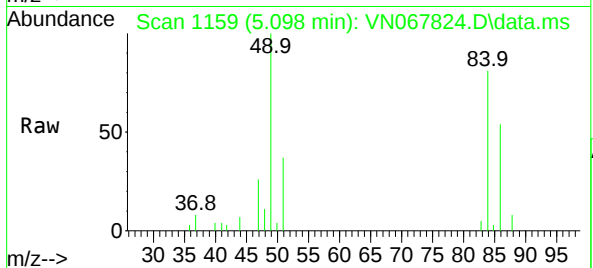
Tgt Ion: 43 Resp: 6671
Ion Ratio Lower Upper
43 100
74 18.2 17.4 26.0



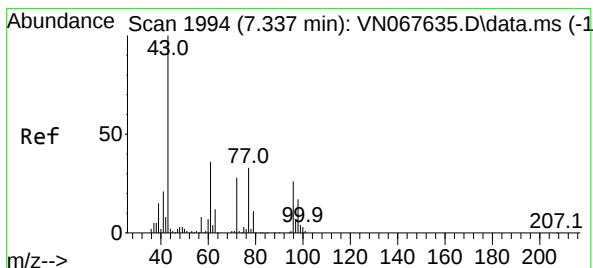
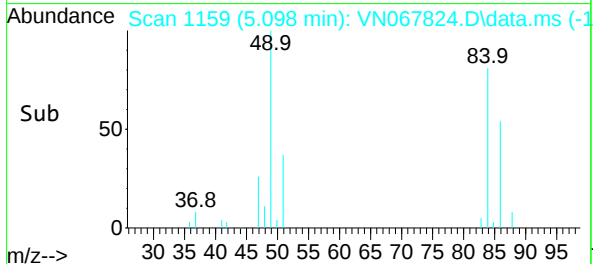
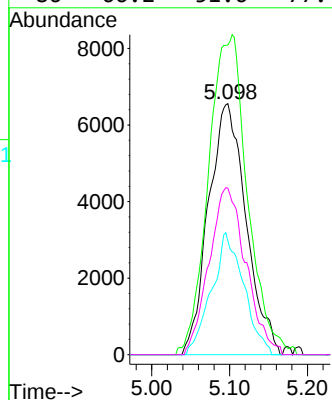


#20
Methylene Chloride
Concen: 5.721 ug/l
RT: 5.098 min Scan# 1159
Delta R.T. 0.008 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Instrument :
MSVOA_N
ClientSampled :

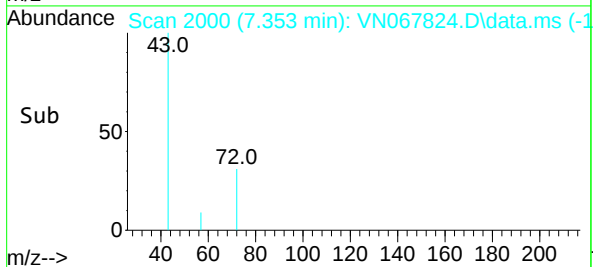
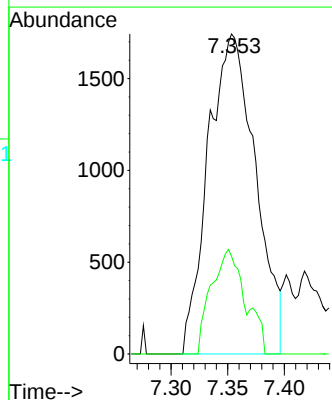
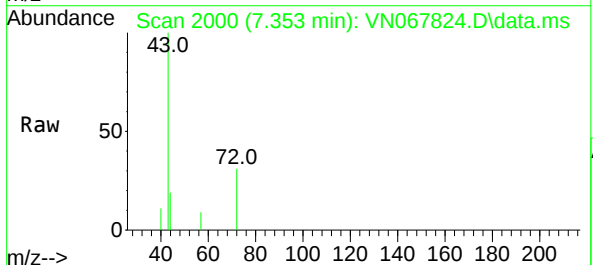


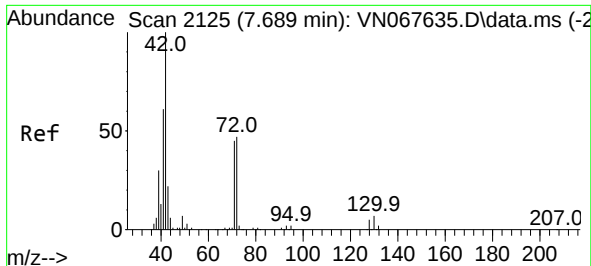
Tgt Ion: 84	Resp: 22026		
Ion	Ratio	Lower	Upper
84	100		
49	120.5	110.9	166.3
51	45.3	32.6	49.0
86	66.2	51.6	77.4



#25
2-Butanone
Concen: 2.045 ug/l
RT: 7.353 min Scan# 2000
Delta R.T. 0.016 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 43	Resp: 5055		
Ion Ratio	Lower	Upper	
43 100			
72 30.5	19.7	29.5#	





#29

Tetrahydrofuran

Concen: 0.772 ug/l

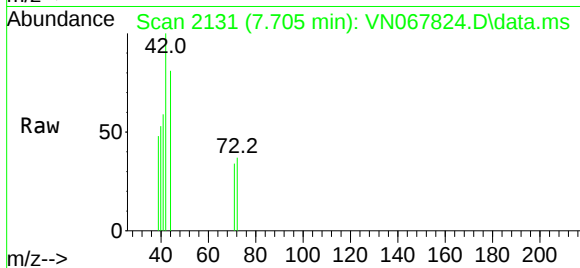
RT: 7.705 min Scan# 2131

Delta R.T. 0.016 min

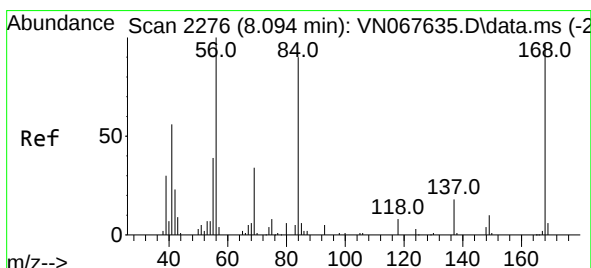
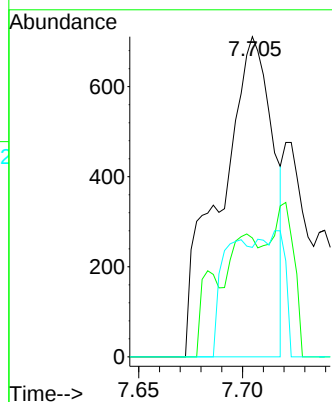
Lab File: VN067824.D

Acq: 20 Jul 2021 18:01

Instrument :
MSVOA_N
ClientSampled :



Tgt Ion:	42	Resp:	1255
Ion	Ratio	Lower	Upper
42	100		
72	21.4	32.8	49.2#
71	21.5	31.2	46.8#



#31

Cyclohexane

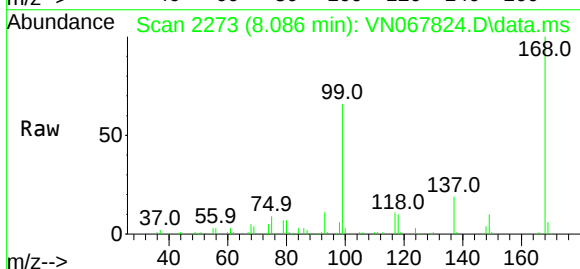
Concen: 1.260 ug/l

RT: 8.086 min Scan# 2273

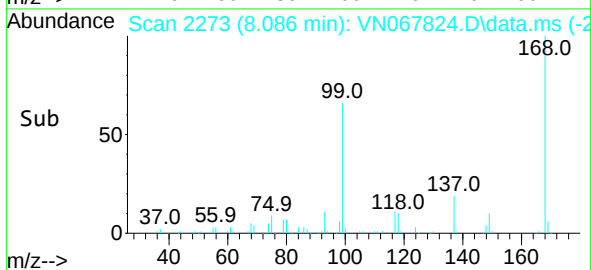
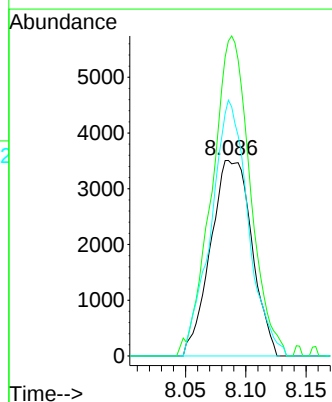
Delta R.T. -0.008 min

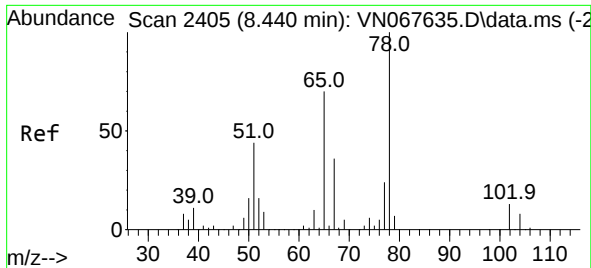
Lab File: VN067824.D

Acq: 20 Jul 2021 18:01



Tgt Ion:	56	Resp:	8361
Ion	Ratio	Lower	Upper
56	100		
69	156.6	27.3	40.9#
84	130.8	64.9	97.3#

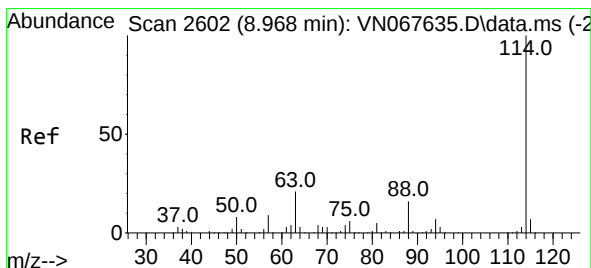
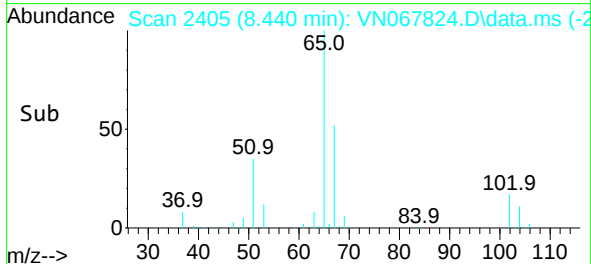
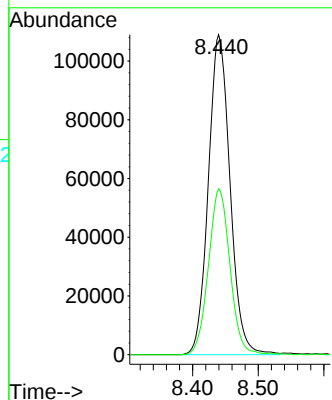
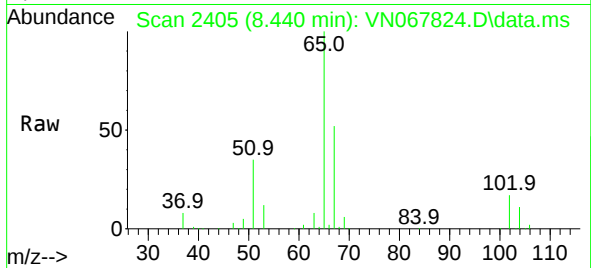




#33
 1,2-Dichloroethane-d4
 Concen: 52.895 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN067824.D
 Acq: 20 Jul 2021 18:01

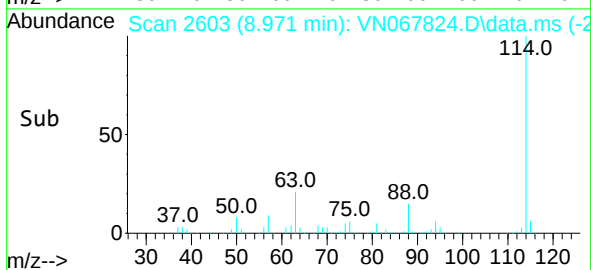
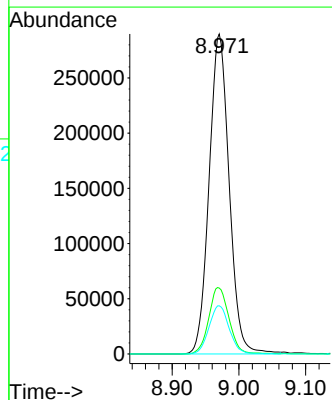
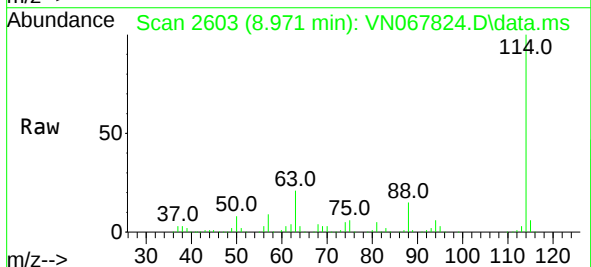
Instrument :
 MSVOA_N
 ClientSampled :

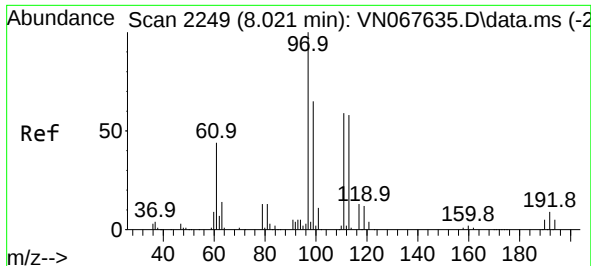
Tgt Ion: 65 Resp: 250268
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 98.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN067824.D
 Acq: 20 Jul 2021 18:01

Tgt Ion: 114 Resp: 606076
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 49.0
 88 15.0 0.0 36.6





#35

Dibromofluoromethane

Concen: 50.161 ug/l

RT: 8.024 min Scan# 2250

Delta R.T. 0.003 min

Lab File: VN067824.D

Acq: 20 Jul 2021 18:01

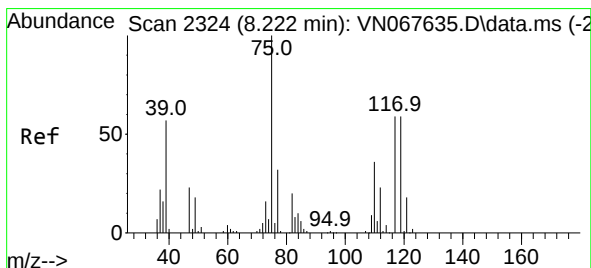
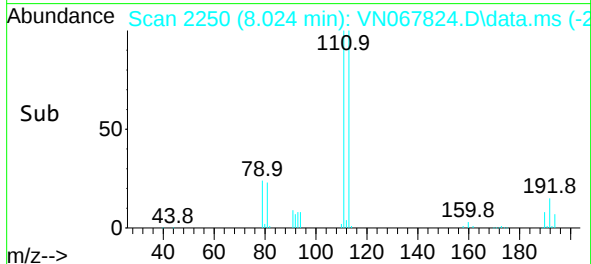
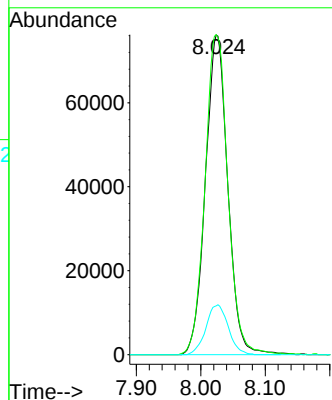
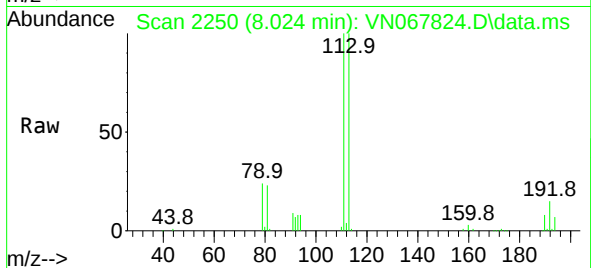
Tgt Ion:113 Resp: 183678

Ion Ratio Lower Upper

113 100

111 102.6 83.8 125.8

192 15.6 13.4 20.0



#36

1,1-Dichloropropene

Concen: 5.085 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.134 min

Lab File: VN067824.D

Acq: 20 Jul 2021 18:01

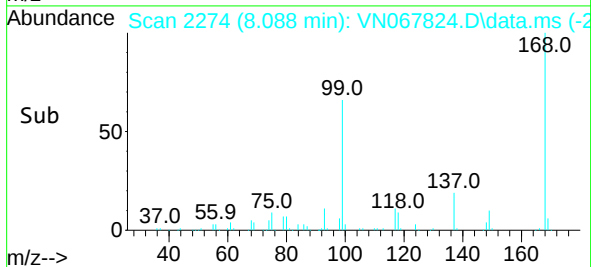
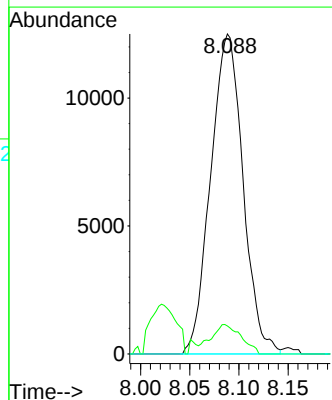
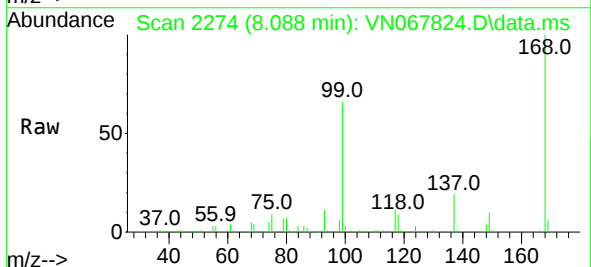
Tgt Ion: 75 Resp: 28630

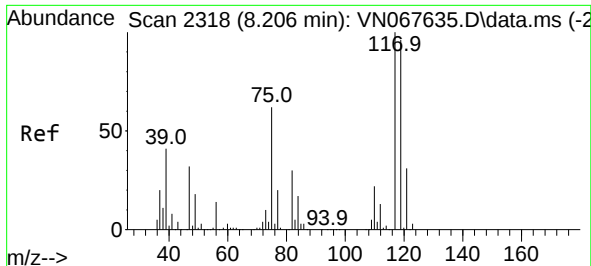
Ion Ratio Lower Upper

75 100

110 8.6 15.7 47.0#

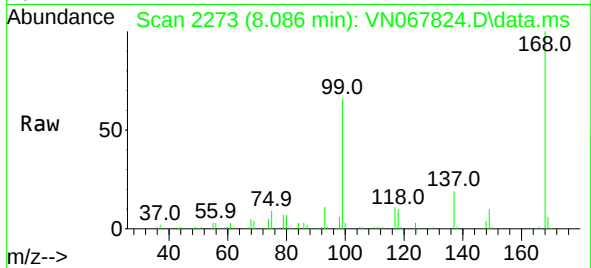
77 0.0 24.6 37.0#



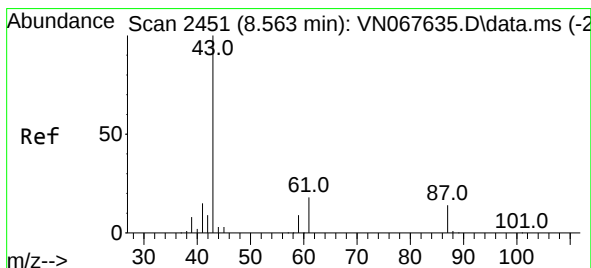
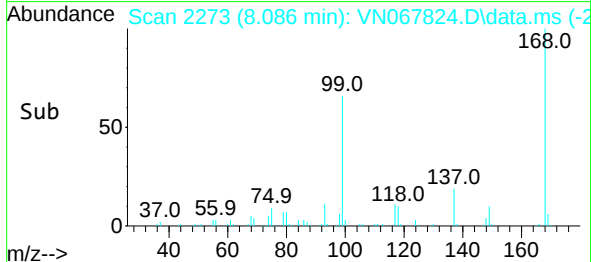
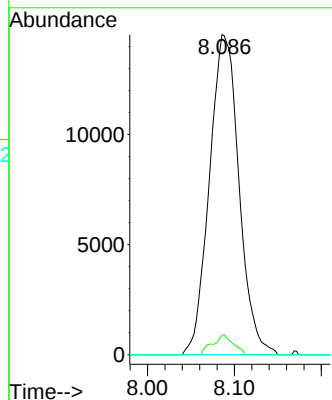


#38
Carbon Tetrachloride
Concen: 6.194 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

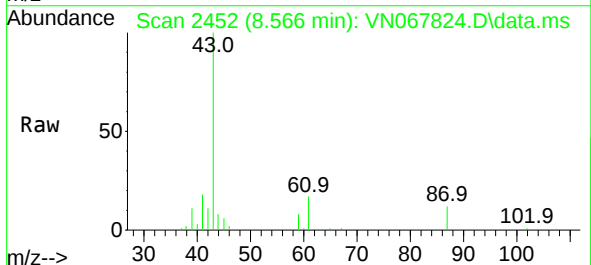
Instrument :
MSVOA_N
ClientSampleId :



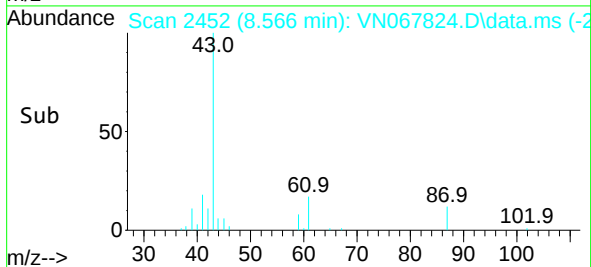
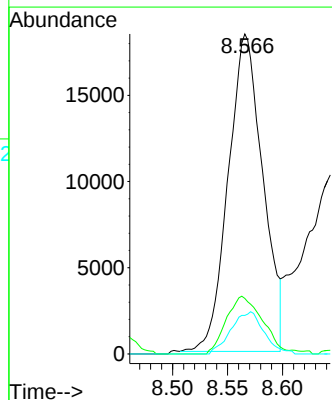
Tgt Ion:117 Resp: 34395
Ion Ratio Lower Upper
117 100
119 6.1 75.4 113.2#
121 0.0 23.5 35.3#

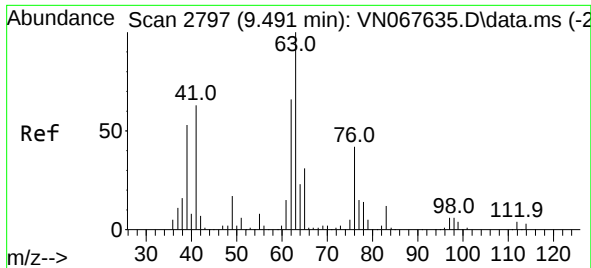


#43
Isopropyl Acetate
Concen: 4.197 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.003 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01



Tgt Ion: 43 Resp: 40273
Ion Ratio Lower Upper
43 100
61 19.4 19.0 28.4
87 12.7 9.5 14.3

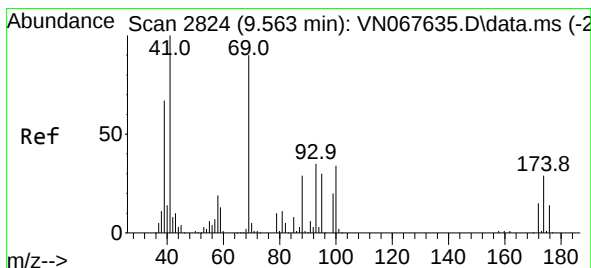
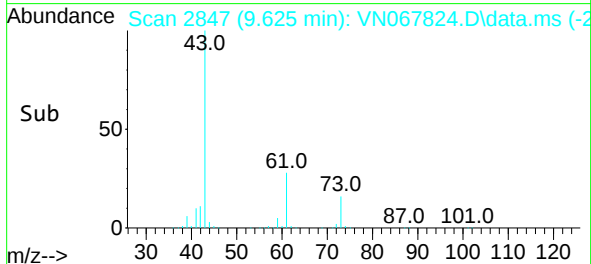
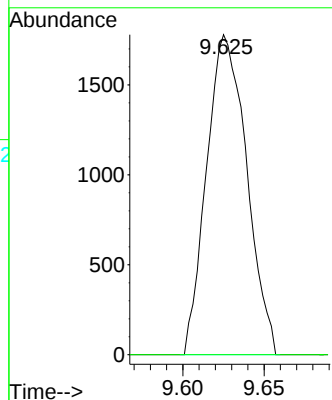
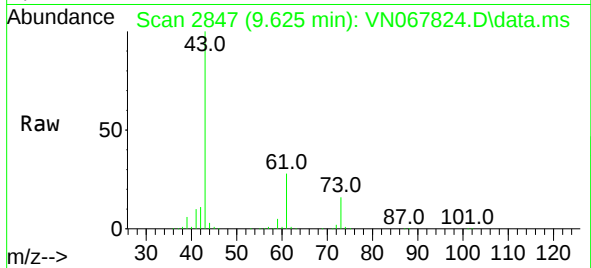




#45
1,2-Dichloropropane
Concen: 0.716 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

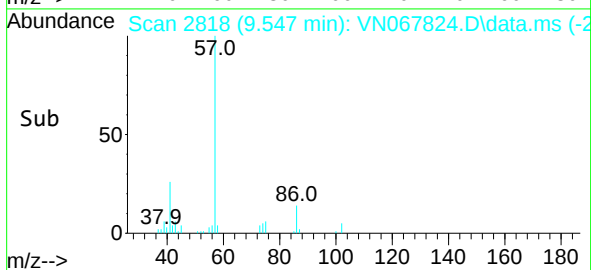
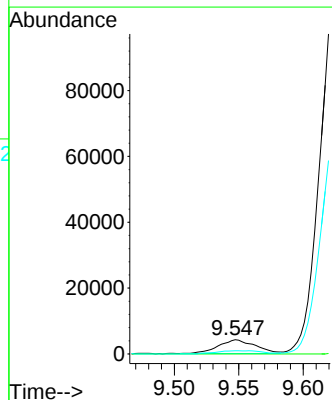
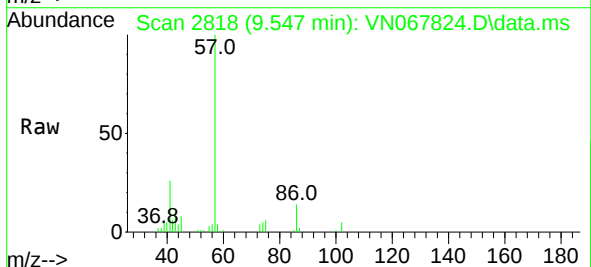
Instrument :
MSVOA_N
ClientSampled :

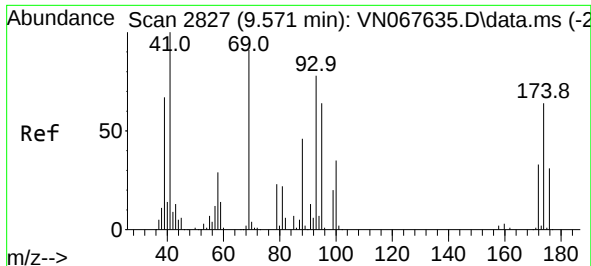
Tgt Ion: 63 Resp: 3053
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#



#48
Methyl methacrylate
Concen: 1.948 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.016 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 41 Resp: 8269
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#

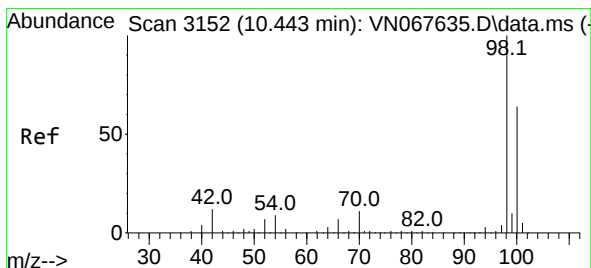
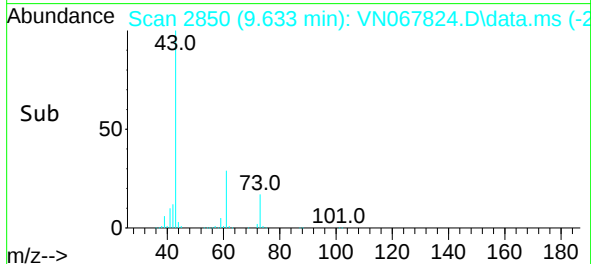
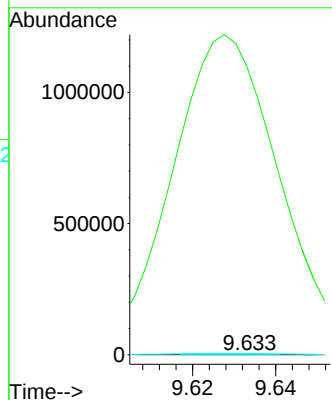
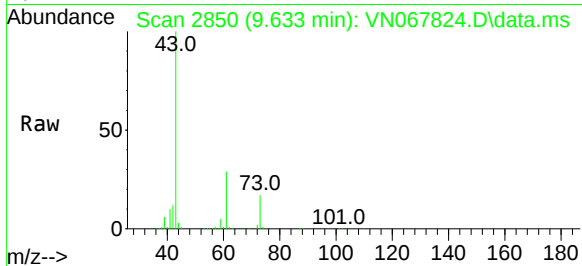




#49
1,4-Dioxane
Concen: 34.563 ug/l
RT: 9.633 min Scan# 2850
Delta R.T. 0.062 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

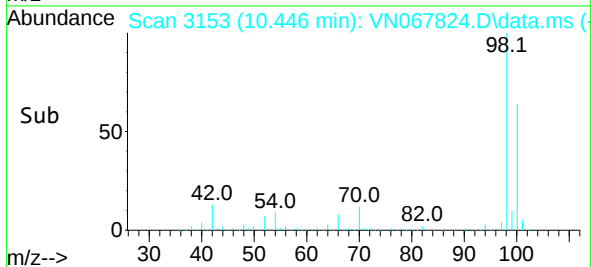
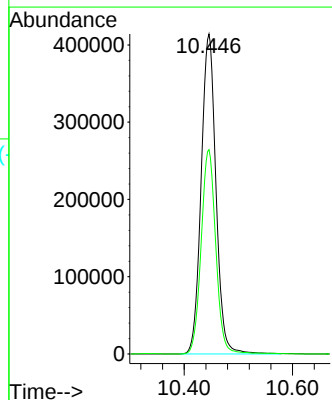
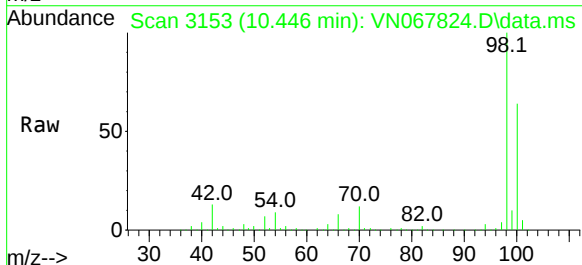
Instrument :
MSVOA_N
ClientSampled :

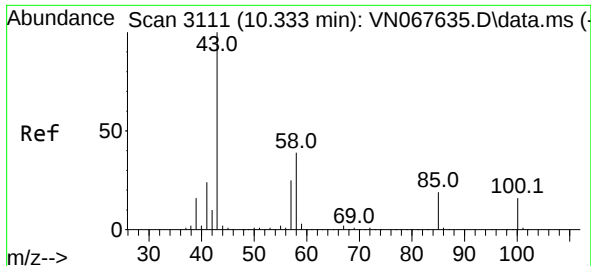
Tgt Ion: 88 Resp: 212
Ion Ratio Lower Upper
88 100
43 1083332.1 28.8 43.2#
58 4734.9 60.4 90.6#



#50
Toluene-d8
Concen: 51.230 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 98 Resp: 785220
Ion Ratio Lower Upper
98 100
100 63.1 51.7 77.5

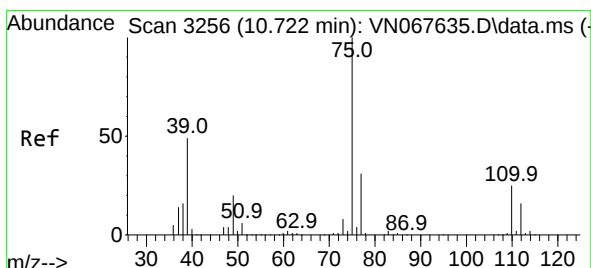
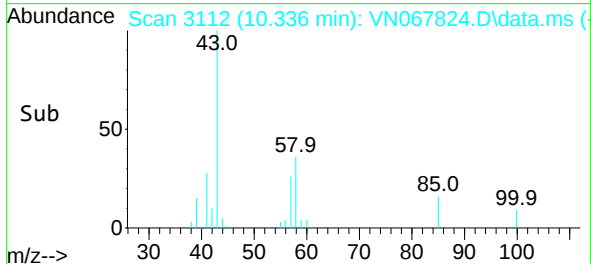
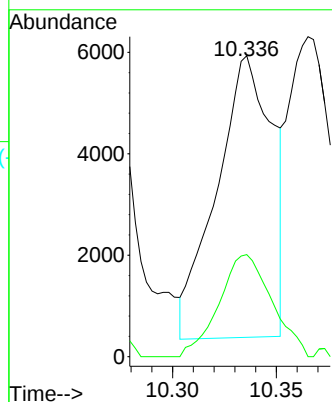
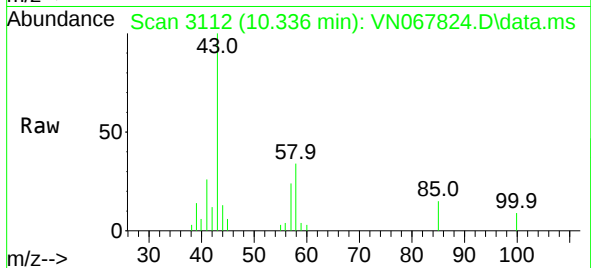




#51
4-Methyl-2-Pentanone
Concen: 1.757 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

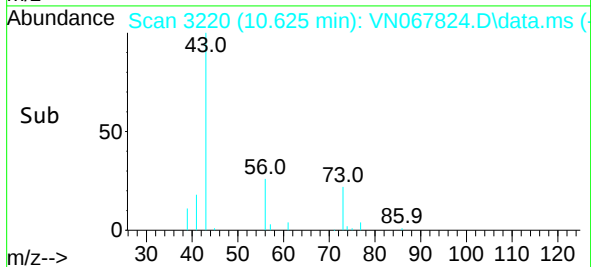
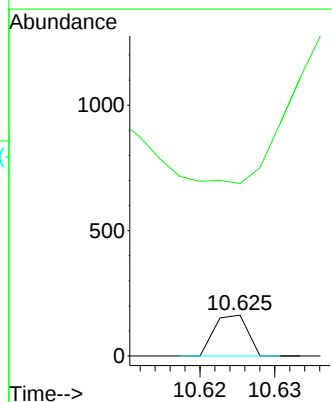
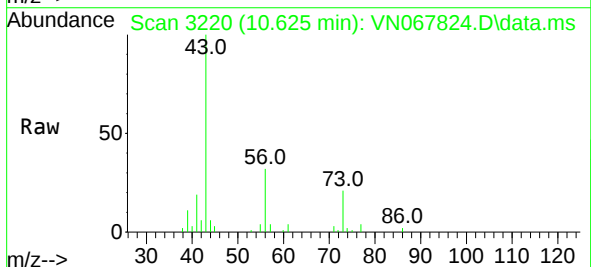
Instrument :
MSVOA_N
ClientSampled :

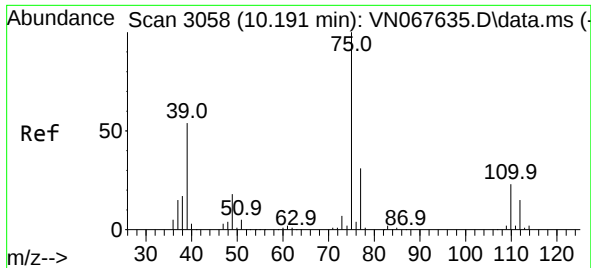
Tgt Ion: 43 Resp: 10355
Ion Ratio Lower Upper
43 100
58 34.4 28.6 43.0



#53
t-1,3-Dichloropropene
Concen: 1.751 ug/l
RT: 10.625 min Scan# 3220
Delta R.T. -0.097 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 75 Resp: 51
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#

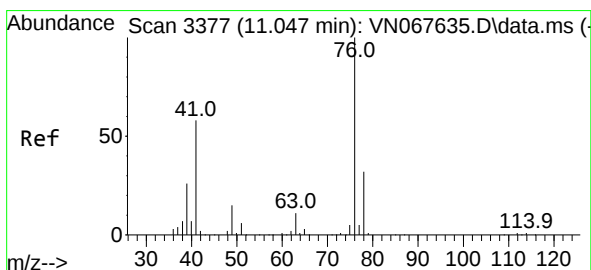
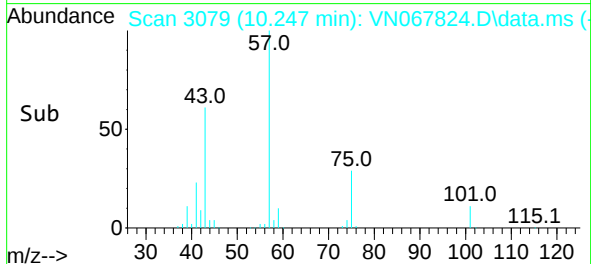
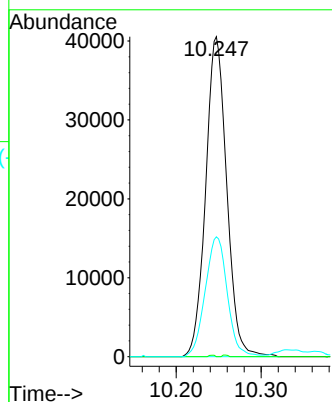
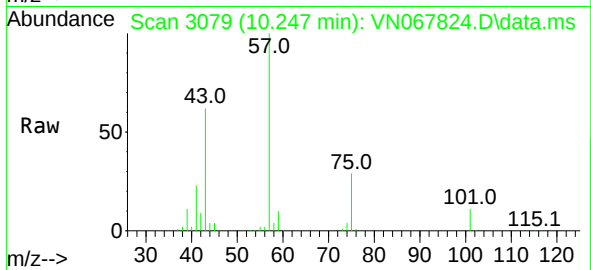




#54
 cis-1,3-Dichloropropene
 Concen: 10.602 ug/l
 RT: 10.247 min Scan# 3079
 Delta R.T. 0.056 min
 Lab File: VN067824.D
 Acq: 20 Jul 2021 18:01

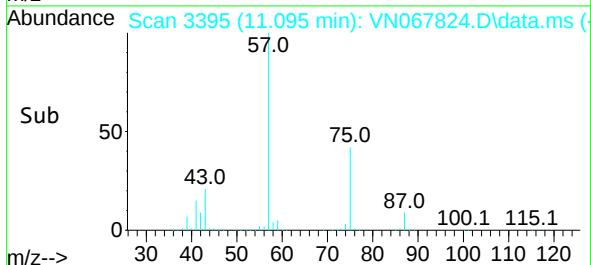
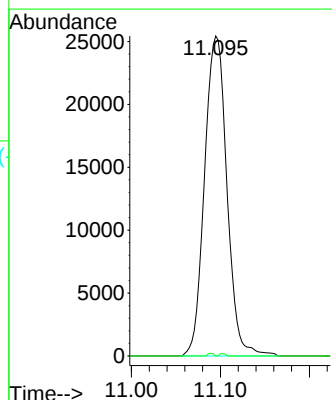
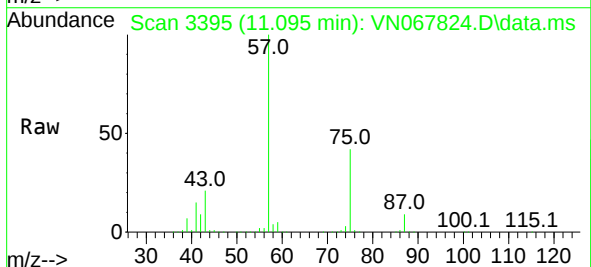
Instrument :
 MSVOA_N
 ClientSampleId :

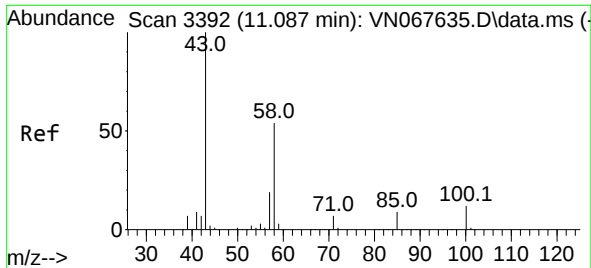
Tgt Ion: 75 Resp: 69779
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 37.5 50.7 76.1#



#57
 1,3-Dichloropropane
 Concen: 6.130 ug/l
 RT: 11.095 min Scan# 3395
 Delta R.T. 0.048 min
 Lab File: VN067824.D
 Acq: 20 Jul 2021 18:01

Tgt Ion: 76 Resp: 44468
 Ion Ratio Lower Upper
 76 100
 78 0.2 25.7 38.5#

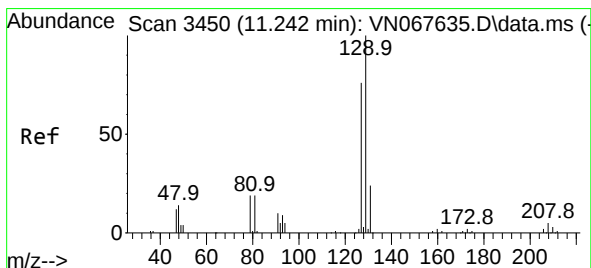
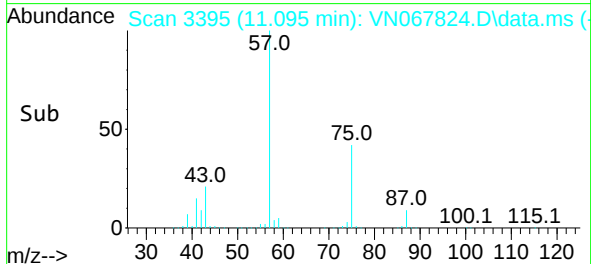
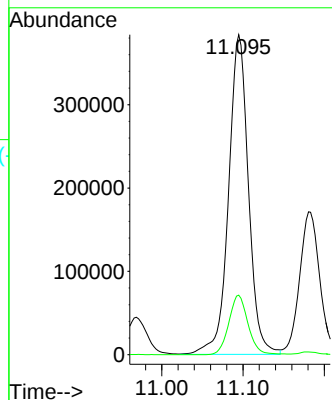
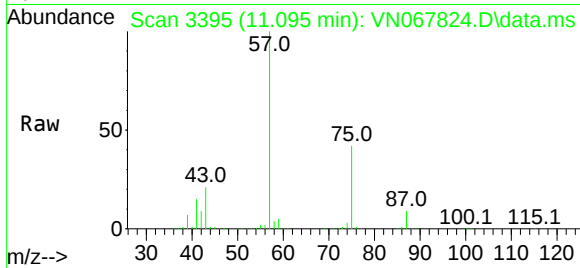




#59
2-Hexanone
Concen: 158.549 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

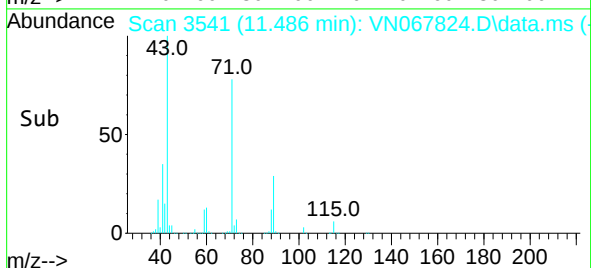
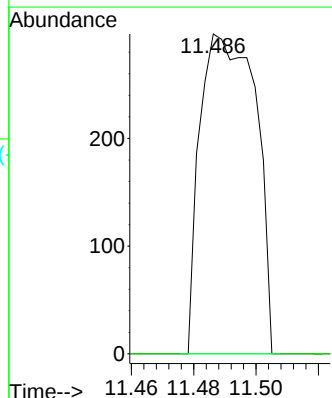
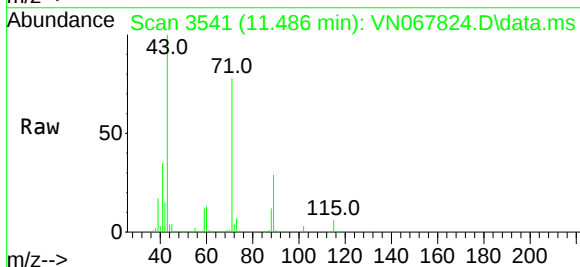
Instrument :
MSVOA_N
ClientSampled :

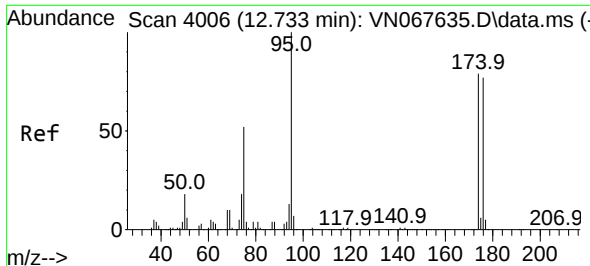
Tgt Ion: 43 Resp: 652386
Ion Ratio Lower Upper
43 100
58 18.1 24.7 74.1#



#60
Dibromochloromethane
Concen: 2.424 ug/l
RT: 11.486 min Scan# 3541
Delta R.T. 0.244 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion:129 Resp: 367
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

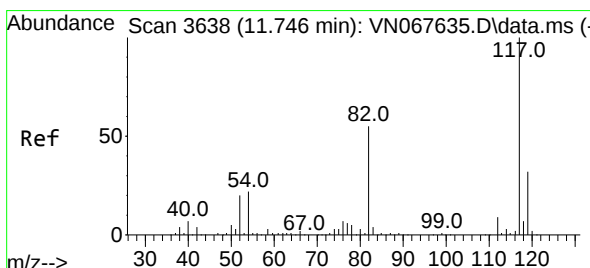
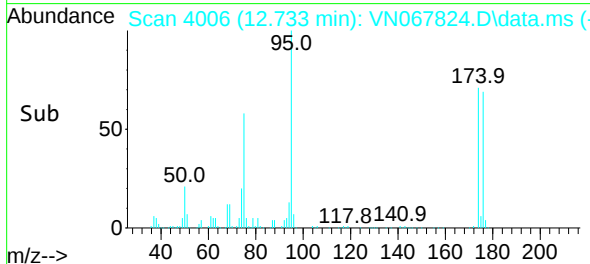
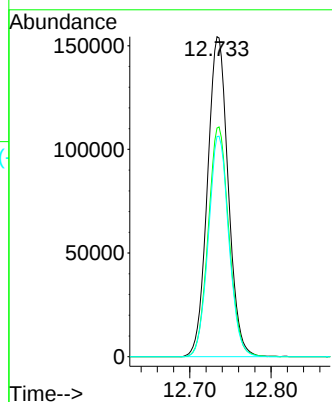
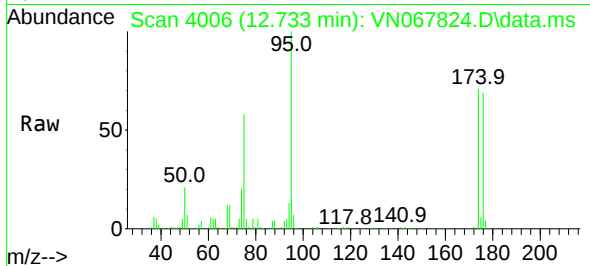




#62
4-Bromofluorobenzene
Concen: 50.481 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

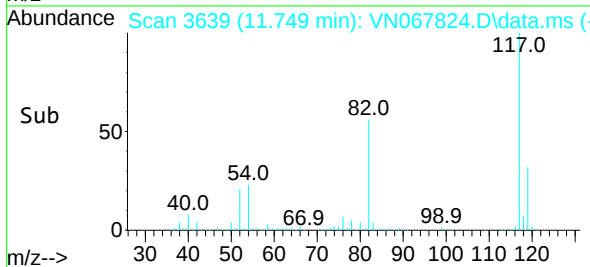
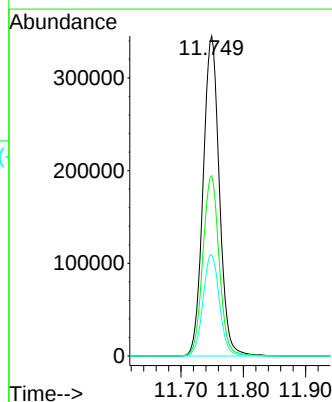
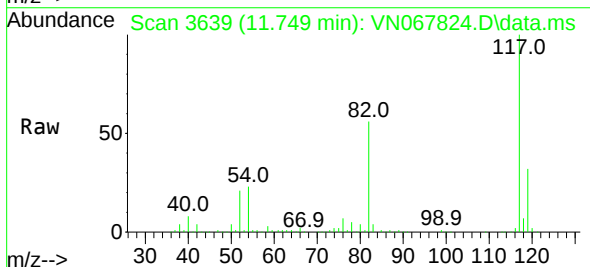
Instrument :
MSVOA_N
ClientSampled :

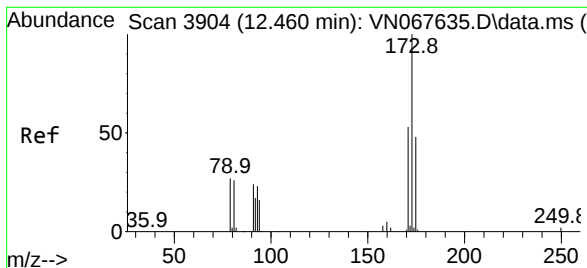
Tgt Ion: 95 Resp: 273326
Ion Ratio Lower Upper
95 100
174 71.7 0.0 122.0
176 68.0 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 117 Resp: 624469
Ion Ratio Lower Upper
117 100
82 56.3 53.1 79.7
119 31.6 25.5 38.3

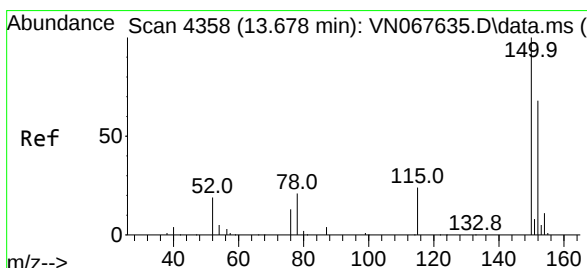
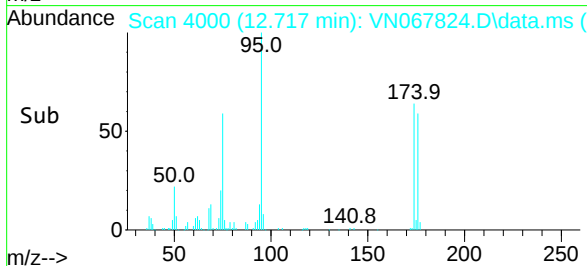
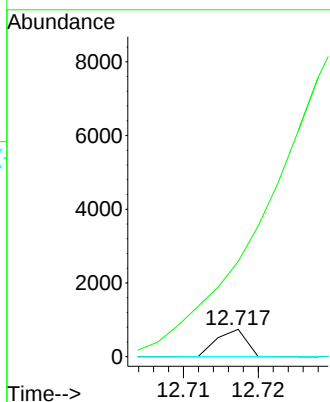
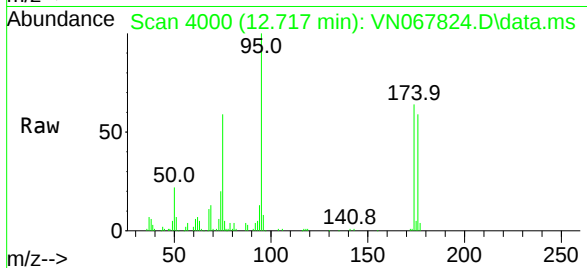




#71
Bromoform
Concen: 3.223 ug/l
RT: 12.717 min Scan# 4000
Delta R.T. 0.257 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

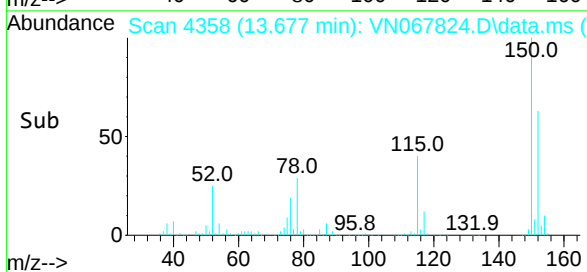
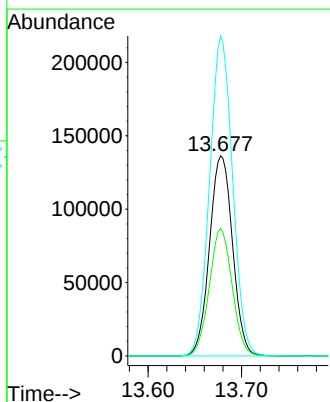
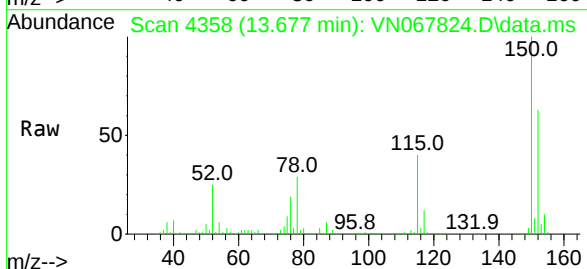
Instrument :
MSVOA_N
ClientSampled :

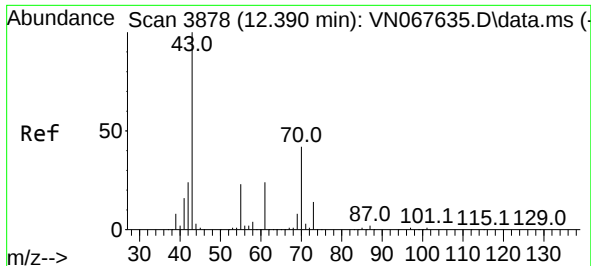
Tgt Ion:173 Resp: 202
Ion Ratio Lower Upper
173 100
175 7102.0 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. -0.000 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

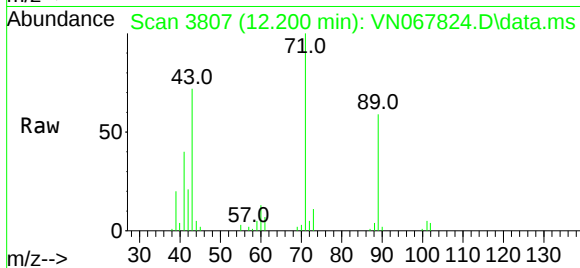
Tgt Ion:152 Resp: 233848
Ion Ratio Lower Upper
152 100
115 63.1 36.1 108.5
150 159.4 0.0 351.8



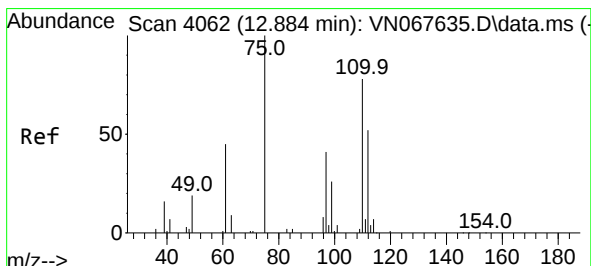
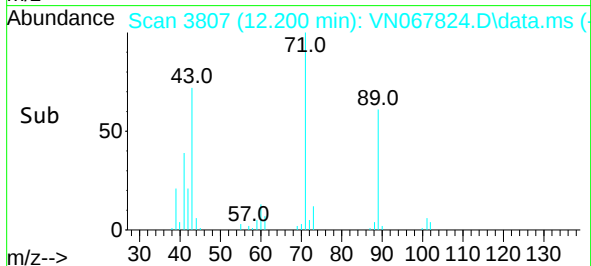
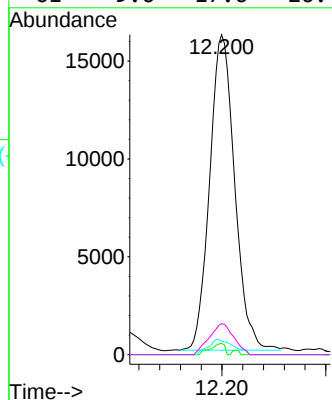


#74
N-amy1 acetate
Concen: 3.943 ug/l
RT: 12.200 min Scan# 3807
Delta R.T. -0.190 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Instrument :
MSVOA_N
ClientSampleId :

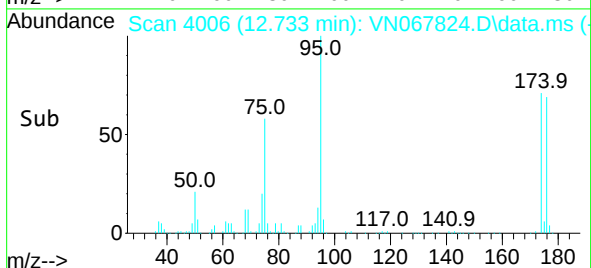
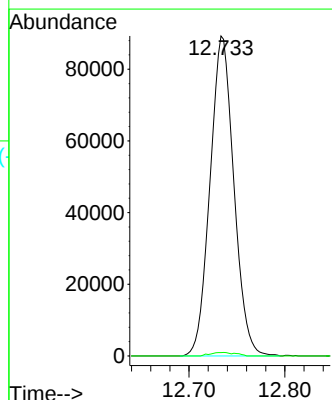
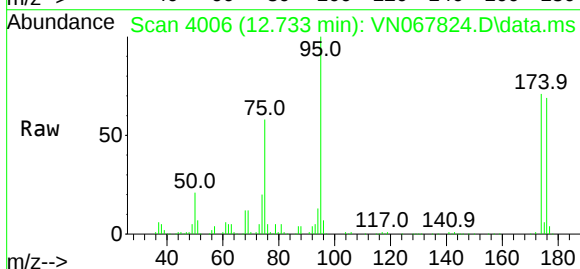


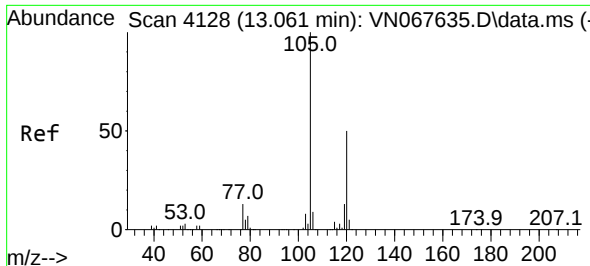
Tgt Ion: 43	Resp: 26989
Ion Ratio	Lower Upper
43 100	
70 2.0	29.4 44.2#
55 4.9	17.0 25.4#
61 9.6	17.6 26.4#



#76
1,2,3-Trichloropropane
Concen: 32.273 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.151 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 75	Resp: 154125
Ion Ratio	Lower Upper
75 100	
77 0.9	0.0 0.0#

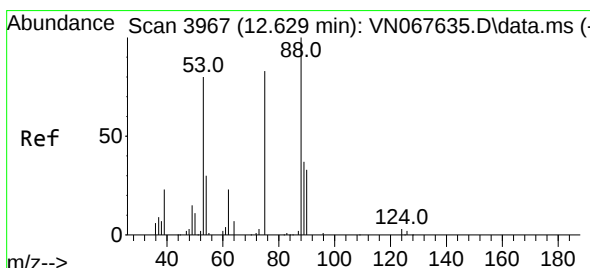
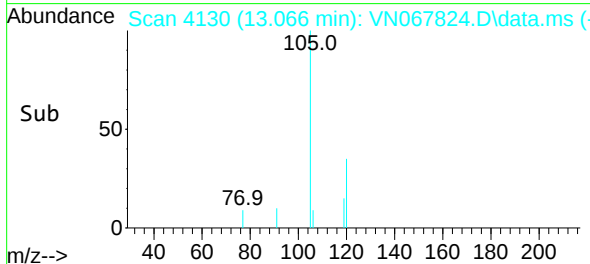
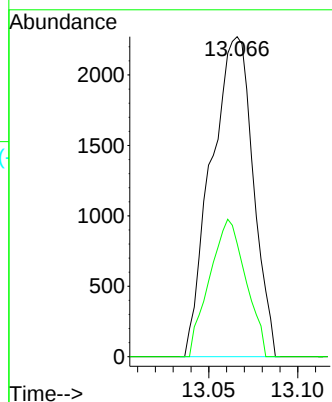
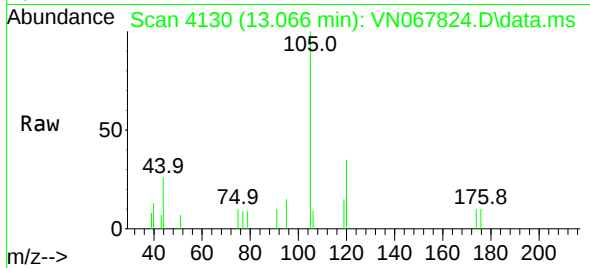




#80
1,3,5-Trimethylbenzene
Concen: 0.244 ug/l
RT: 13.066 min Scan# 4130
Delta R.T. 0.005 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

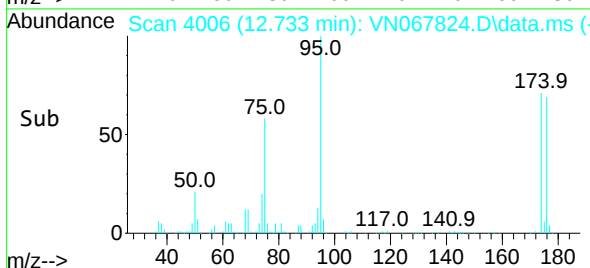
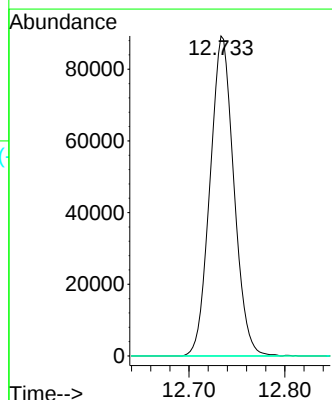
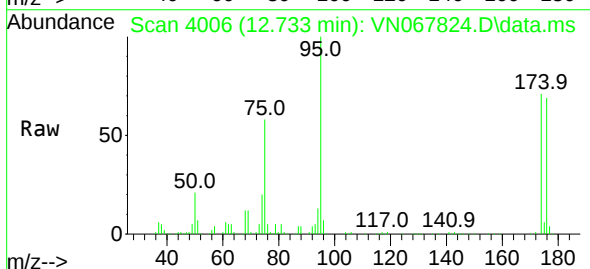
Instrument :
MSVOA_N
ClientSampled :

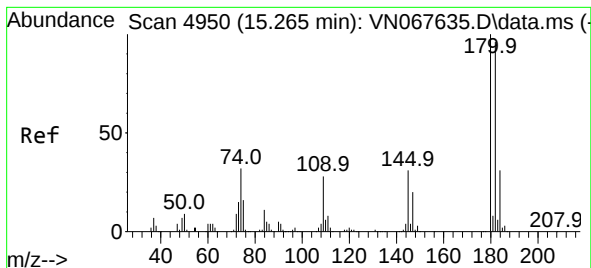
Tgt Ion:105 Resp: 3729
Ion Ratio Lower Upper
105 100
120 37.0 22.2 66.6



#81
trans-1,4-Dichloro-2-butene
Concen: 104.053 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

Tgt Ion: 75 Resp: 154125
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#

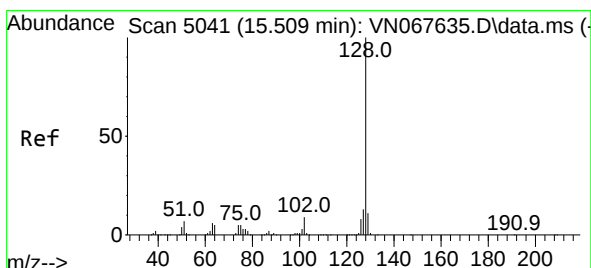
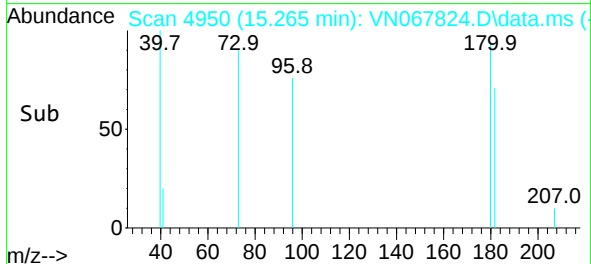
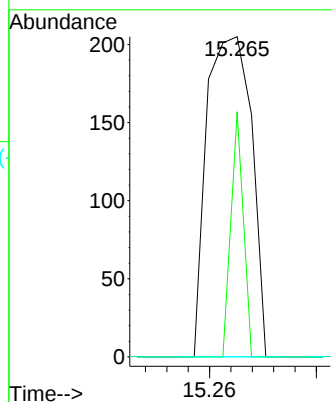
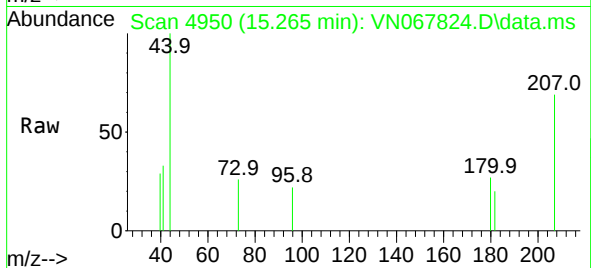




#93
1,2,4-Trichlorobenzene
Concen: 2.703 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

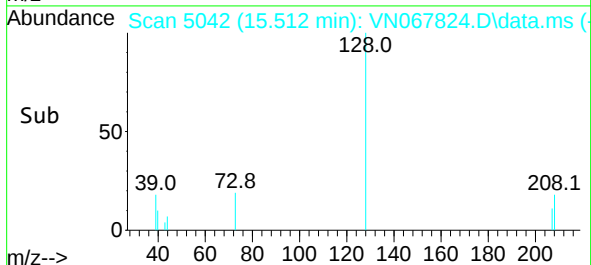
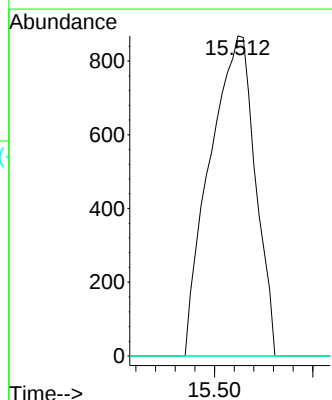
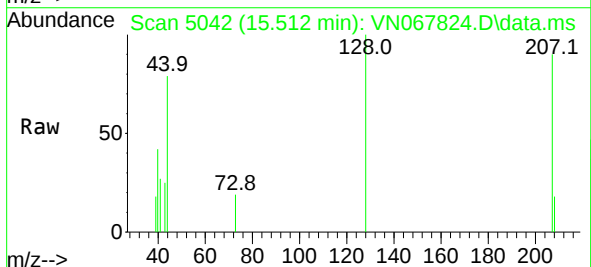
Instrument :
MSVOA_N
ClientSampled :

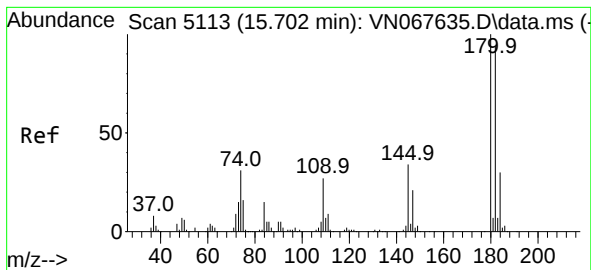
Tgt Ion:180 Resp: 119
Ion Ratio Lower Upper
180 100
182 21.0 47.5 142.5#
145 0.0 17.2 51.6#



#95
Naphthalene
Concen: 3.126 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.003 min
Lab File: VN067824.D
Acq: 20 Jul 2021 18:01

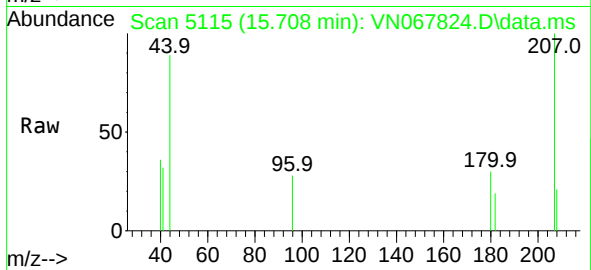
Tgt Ion:128 Resp: 1391
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.667 ug/l
 RT: 15.708 min Scan# 5115
 Delta R.T. 0.006 min
 Lab File: VN067824.D
 Acq: 20 Jul 2021 18:01

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	135
Ion	Ratio	Lower	Upper
180	100		
182	89.6	47.8	143.3
145	0.0	18.2	54.6#

