

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072721\
 Data File : VN067932.D
 Acq On : 27 Jul 2021 16:47
 Operator : JC/MD
 Sample : M3147-21
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 28 05:21:38 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)

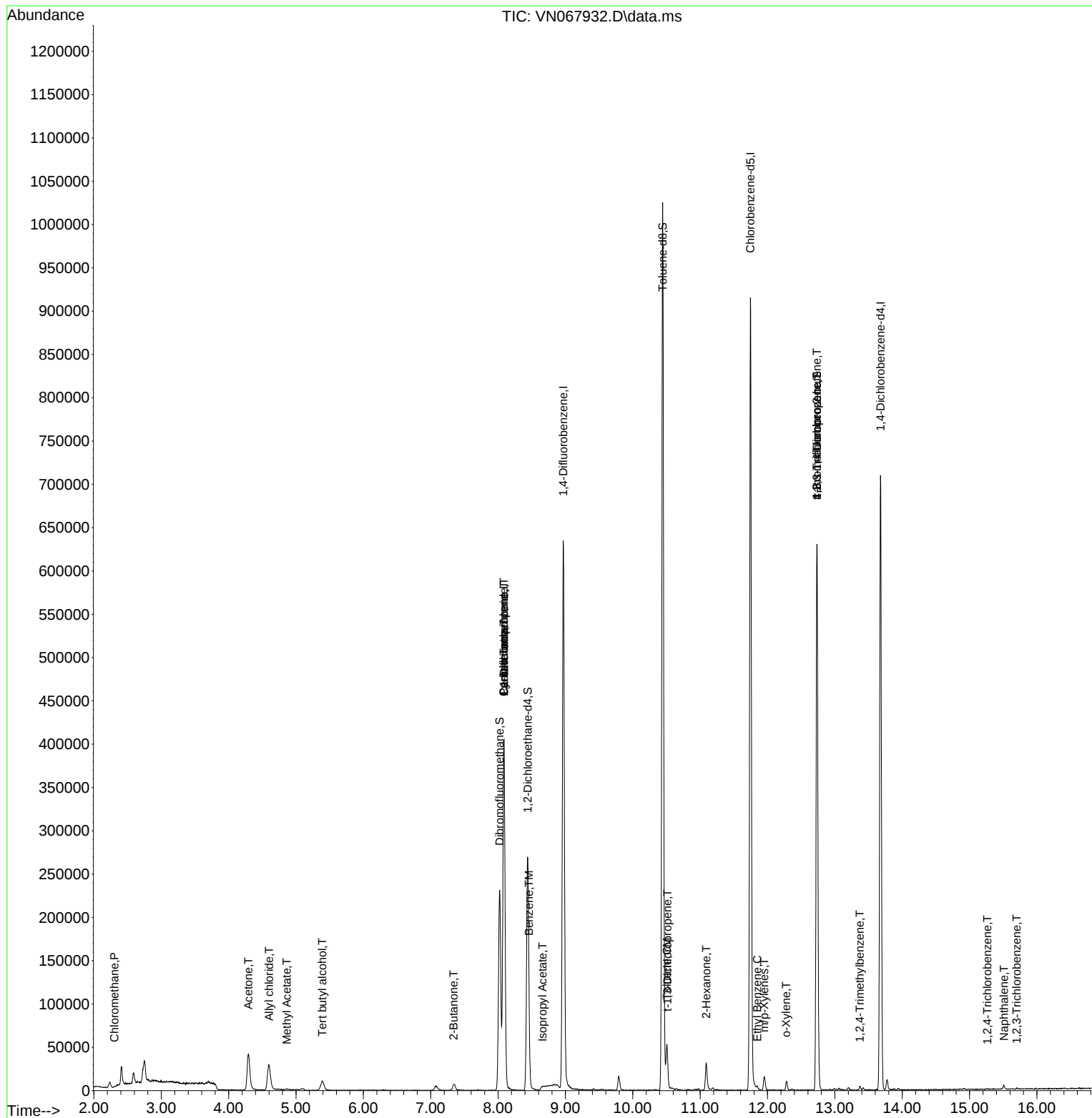
Internal Standards						
1) Pentafluorobenzene	8.088	168	286744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	552297	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	520362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	185279	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	232028	53.542	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 107.080%			
35) Dibromofluoromethane	8.024	113	169533	50.806	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 101.620%			
50) Toluene-d8	10.443	98	708281	50.710	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 101.420%			
62) 4-Bromofluorobenzene	12.733	95	230261	46.668	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 93.340%			
Target Compounds					Qvalue	
3) Chloromethane	2.303	50	1089	0.282	ug/l #	84
5) Bromomethane	2.829	94	247	Below Cal	#	4
6) Chloroethane	3.019	64	28	Below Cal	#	44
11) Tert butyl alcohol	5.390	59	18927	30.393	ug/l #	86
13) Acrolein	4.030	56	26	Below Cal	#	14
14) Allyl chloride	4.602	41	6001	1.280	ug/l #	48
16) Acetone	4.293	43	79054	57.974	ug/l	94
18) Methyl Acetate	4.865	43	779	0.203	ug/l #	78
20) Methylene Chloride	5.093	84	880	Below Cal	#	71
25) 2-Butanone	7.340	43	4367	1.929	ug/l	95
31) Cyclohexane	8.086	56	7519	1.237	ug/l #	13
36) 1,1-Dichloropropene	8.086	75	27310	5.323	ug/l #	51
38) Carbon Tetrachloride	8.086	117	32746	6.471	ug/l #	18
40) Benzene	8.458	78	3242	0.211	ug/l	96
43) Isopropyl Acetate	8.660	43	3287	0.376	ug/l #	58
52) Toluene	10.507	92	19675	1.956	ug/l	99
53) t-1,3-Dichloropropene	10.515	75	27	1.748	ug/l #	1
59) 2-Hexanone	11.089	43	23359	6.230	ug/l	98
67) Ethyl Benzene	11.848	91	4225	0.217	ug/l	97
68) m/p-Xylenes	11.950	106	5643	0.767	ug/l	74
69) o-Xylene	12.278	106	1632	0.226	ug/l #	26
76) 1,2,3-Trichloropropane	12.733	75	128380	33.930	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.733	75	128380	109.392	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.372	105	2757	0.232	ug/l	100
93) 1,2,4-Trichlorobenzene	15.263	180	470	2.818	ug/l #	38
95) Naphthalene	15.509	128	3986	3.425	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.700	180	440	2.773	ug/l #	52

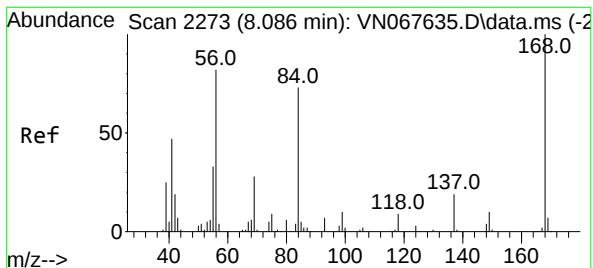
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 07 16:18:53 2021
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.002 min

Lab File: VN067932.D

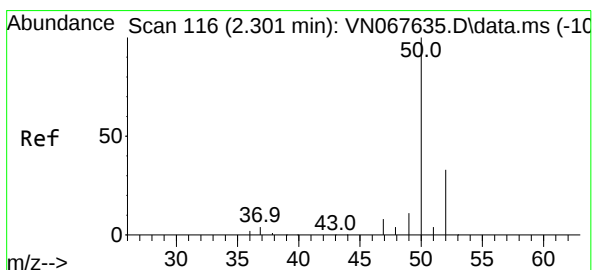
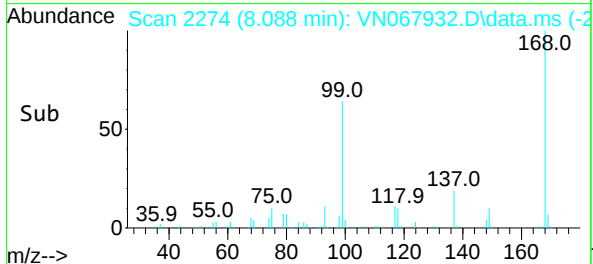
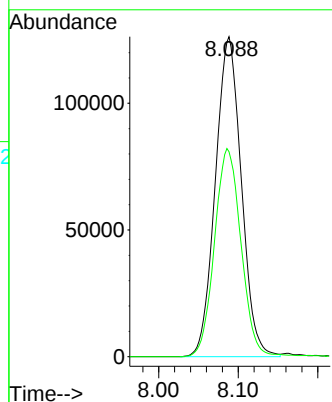
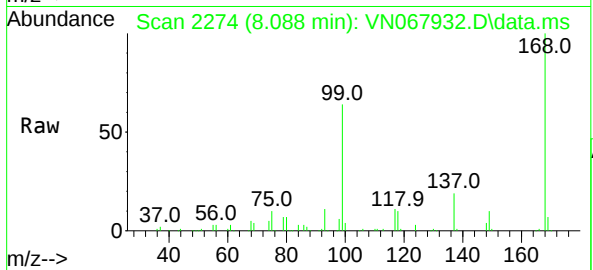
Acq: 27 Jul 2021 16:47

Tgt Ion:168 Resp: 286744

Ion Ratio Lower Upper

168 100

99 64.1 62.9 94.3



#3

Chloromethane

Concen: 0.282 ug/l

RT: 2.303 min Scan# 117

Delta R.T. 0.002 min

Lab File: VN067932.D

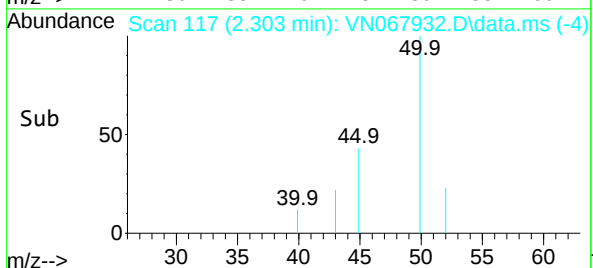
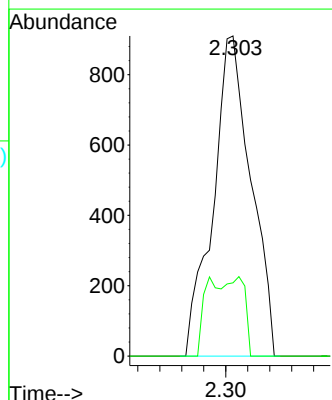
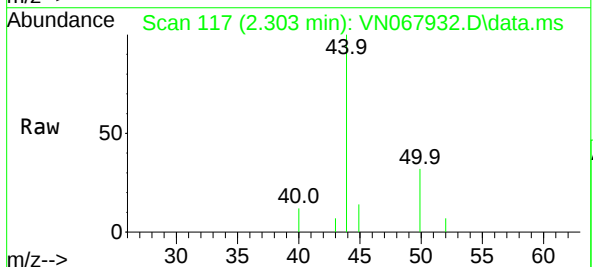
Acq: 27 Jul 2021 16:47

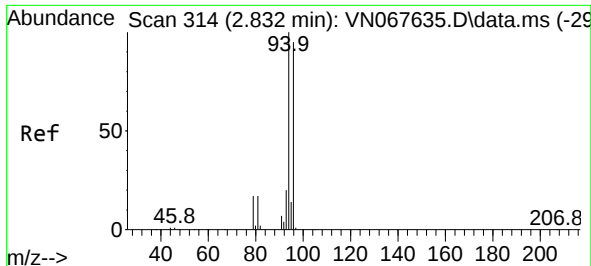
Tgt Ion: 50 Resp: 1089

Ion Ratio Lower Upper

50 100

52 22.9 25.6 38.4#

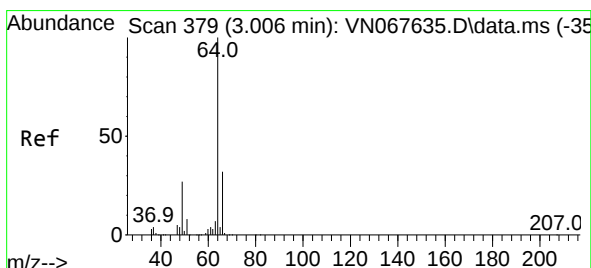
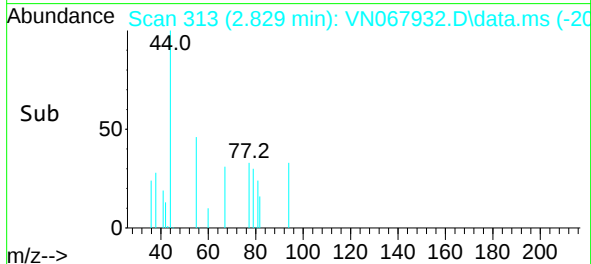
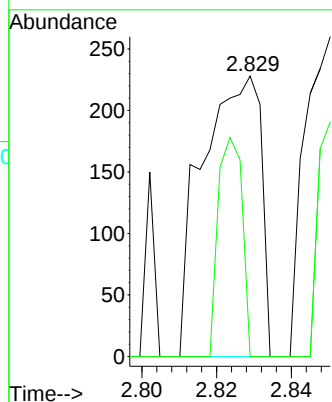
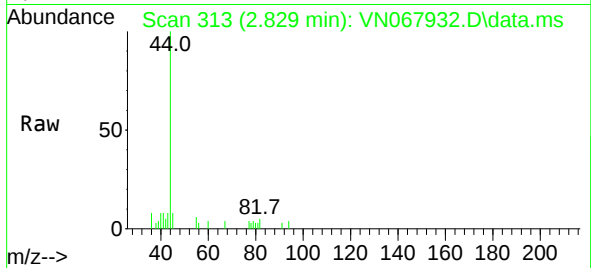




#5
Bromomethane
Concen: Below Cal
RT: 2.829 min Scan# 313
Delta R.T. -0.003 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

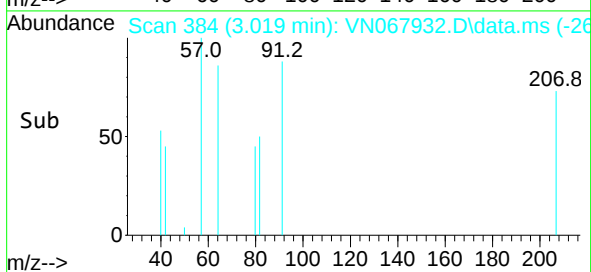
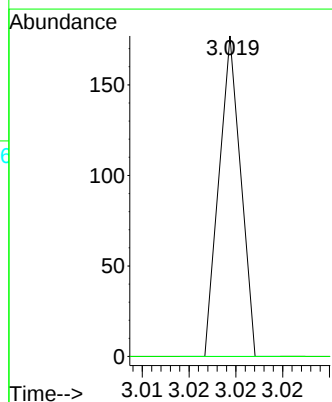
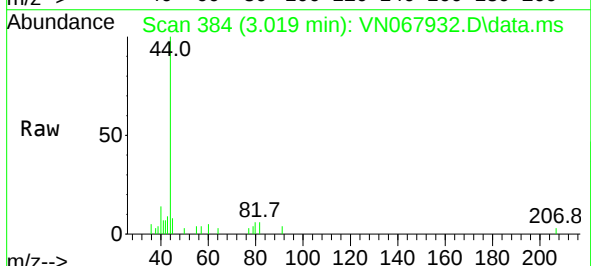
Instrument :
MSVOA_N
ClientSampleId :

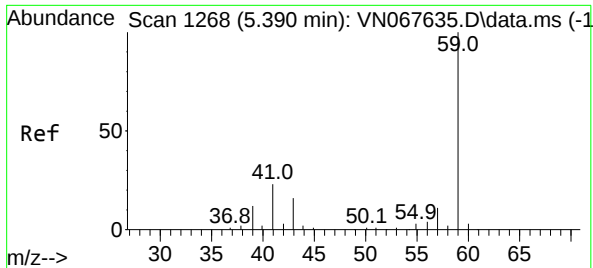
Tgt Ion: 94 Resp: 247
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#



#6
Chloroethane
Concen: Below Cal
RT: 3.019 min Scan# 384
Delta R.T. 0.013 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

Tgt Ion: 64 Resp: 28
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#

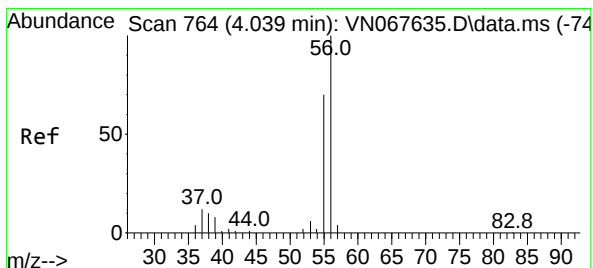
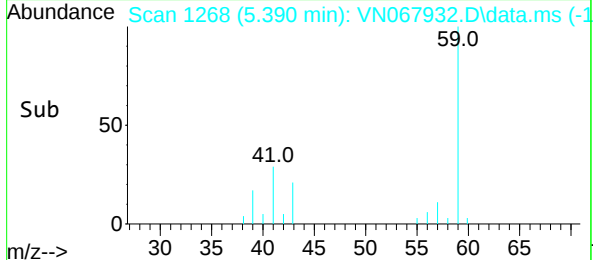
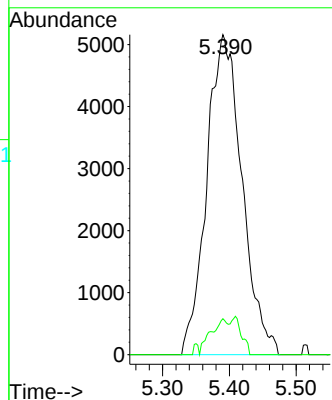
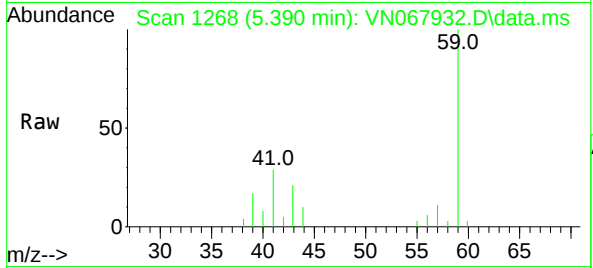




#11
Tert butyl alcohol
Concen: 30.393 ug/l
RT: 5.390 min Scan# 1268
Delta R.T. 0.000 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

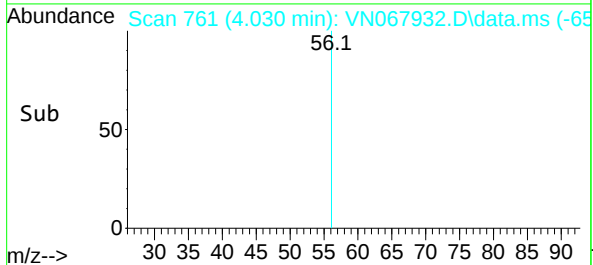
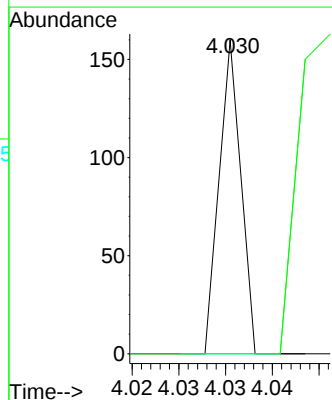
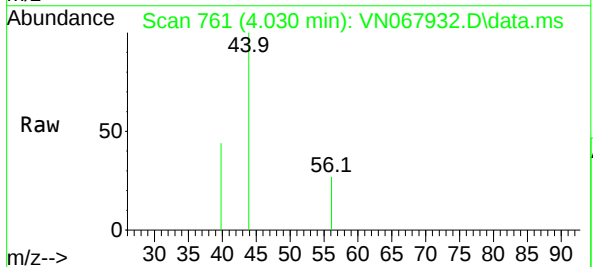
Instrument :
MSVOA_N
ClientSampled :

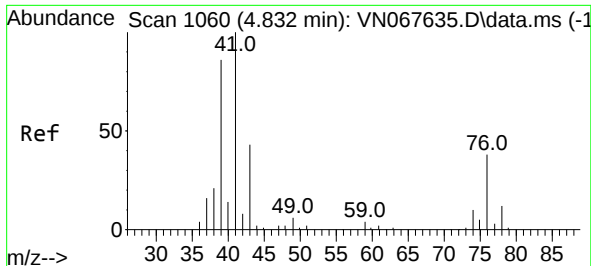
Tgt Ion: 59 Resp: 18927
Ion Ratio Lower Upper
59 100
57 5.4 8.7 13.1#



#13
Acrolein
Concen: Below Cal
RT: 4.030 min Scan# 761
Delta R.T. -0.009 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#





#14

Allyl chloride

Concen: 1.280 ug/l

RT: 4.602 min Scan# 974

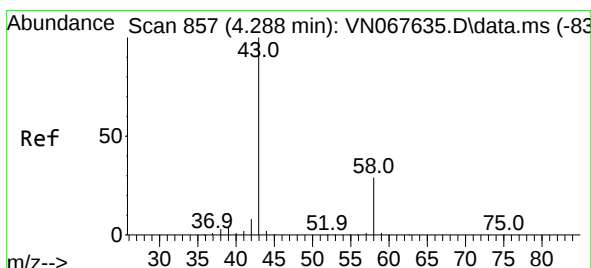
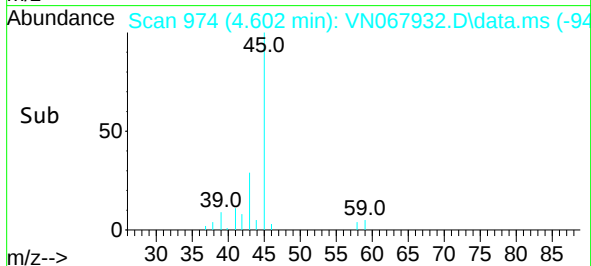
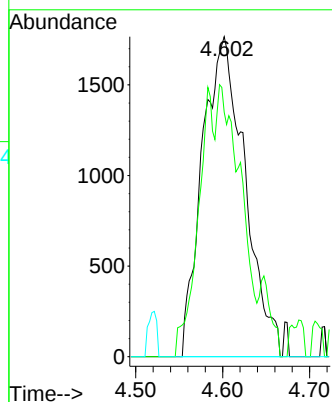
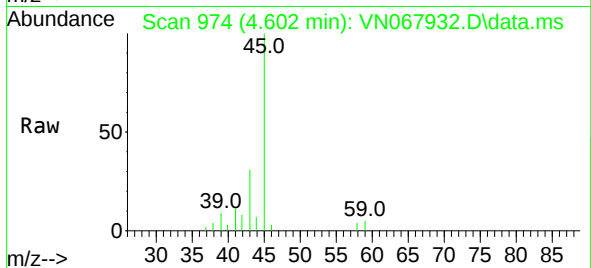
Delta R.T. -0.230 min

Lab File: VN067932.D

Acq: 27 Jul 2021 16:47

Tgt Ion:	41	Resp:	6001
Ion	Ratio	Lower	Upper
41	100		
39	32.9	60.9	91.3#
76	0.0	24.3	36.5#

Instrument :
MSVOA_N
ClientSampleId :



#16

Acetone

Concen: 57.974 ug/l

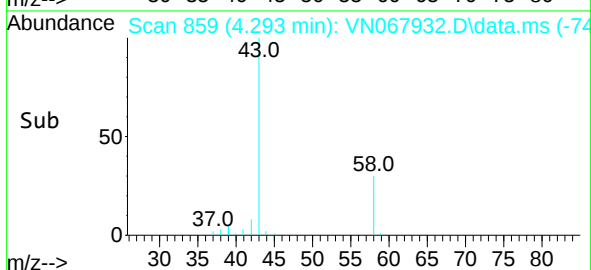
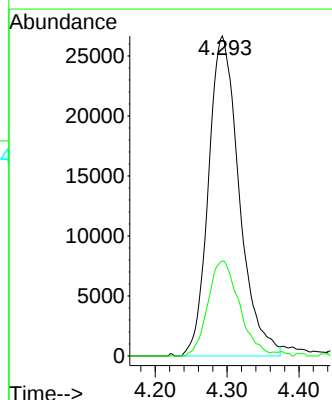
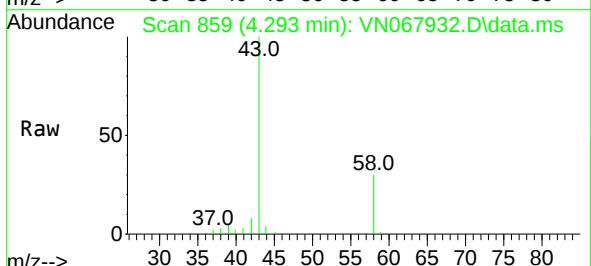
RT: 4.293 min Scan# 859

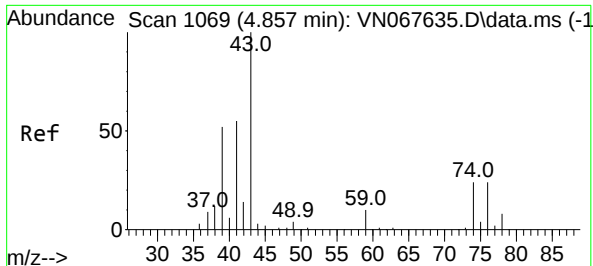
Delta R.T. 0.005 min

Lab File: VN067932.D

Acq: 27 Jul 2021 16:47

Tgt Ion:	43	Resp:	79054
Ion	Ratio	Lower	Upper
43	100		
58	29.7	21.2	31.8





#18

Methyl Acetate

Concen: 0.203 ug/l

RT: 4.865 min Scan# 1072

Delta R.T. 0.008 min

Lab File: VN067932.D

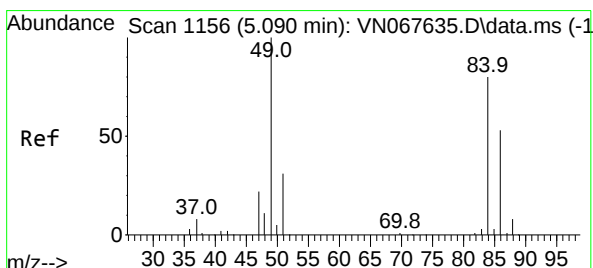
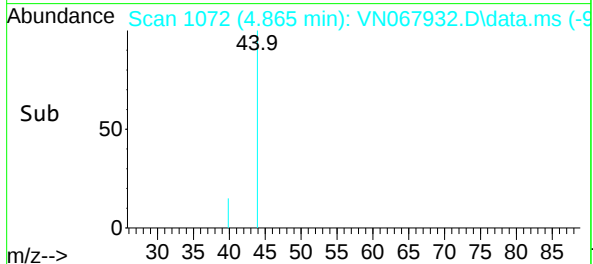
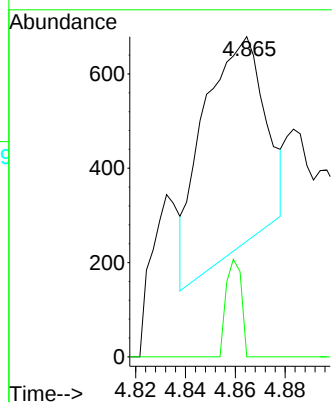
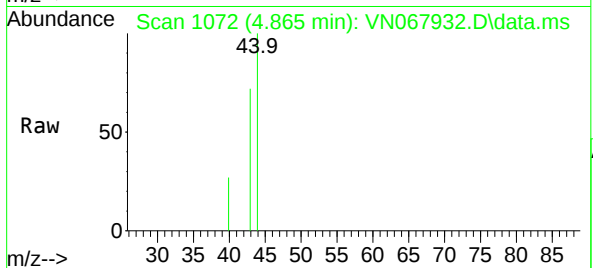
Acq: 27 Jul 2021 16:47

Tgt Ion: 43 Resp: 779

Ion Ratio Lower Upper

43 100

74 11.3 17.4 26.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.093 min Scan# 1157

Delta R.T. 0.003 min

Lab File: VN067932.D

Acq: 27 Jul 2021 16:47

Tgt Ion: 84 Resp: 880

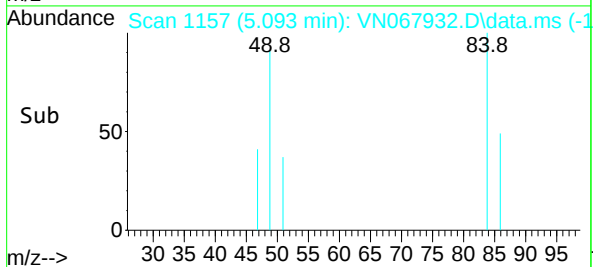
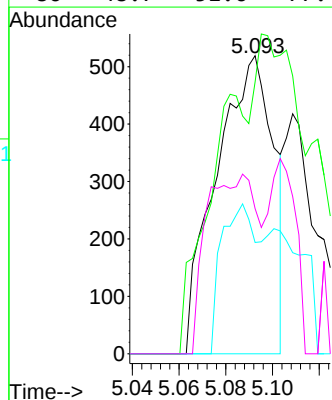
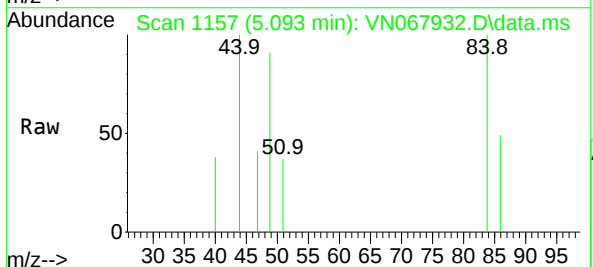
Ion Ratio Lower Upper

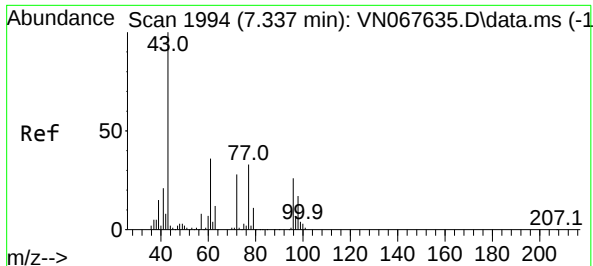
84 100

49 91.1 110.9 166.3#

51 37.4 32.6 49.0

86 48.7 51.6 77.4#

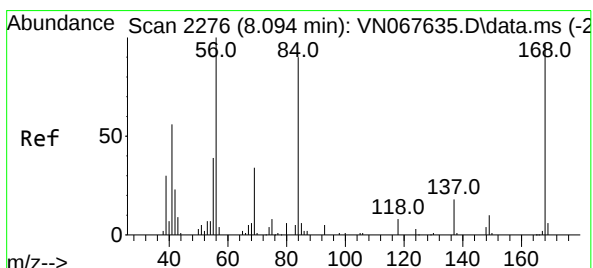
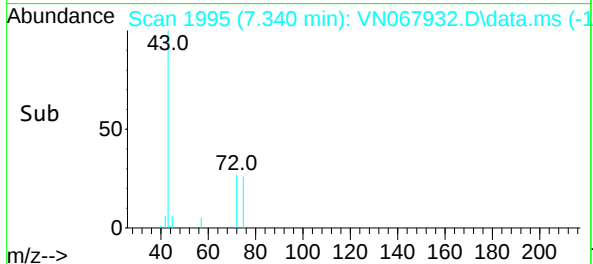
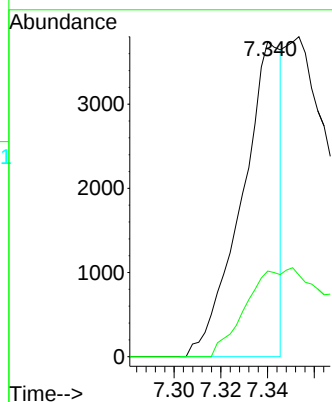
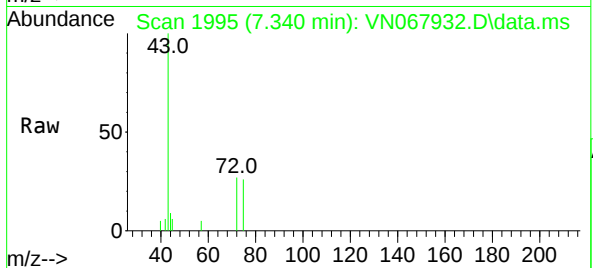




#25
2-Butanone
Concen: 1.929 ug/l
RT: 7.340 min Scan# 1995
Delta R.T. 0.003 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

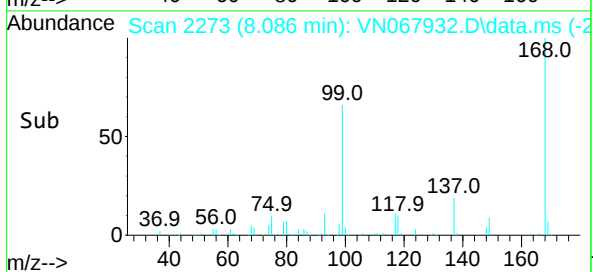
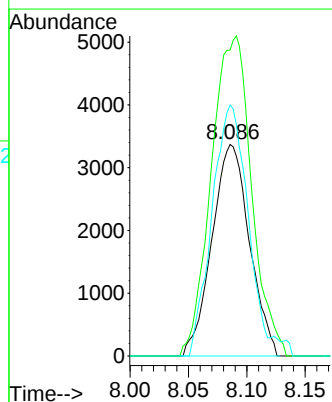
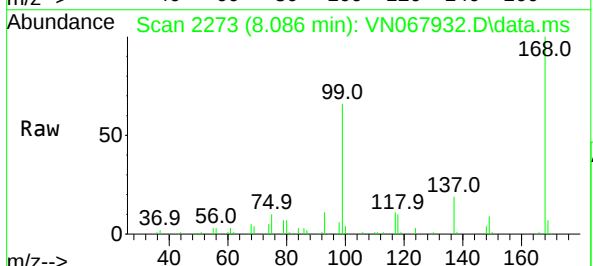
Instrument :
MSVOA_N
ClientSampled :

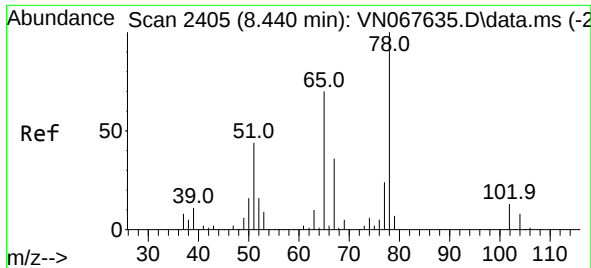
Tgt Ion: 43 Resp: 4367
Ion Ratio Lower Upper
43 100
72 27.2 19.7 29.5



#31
Cyclohexane
Concen: 1.237 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

Tgt Ion: 56 Resp: 7519
Ion Ratio Lower Upper
56 100
69 144.6 27.3 40.9#
84 118.6 64.9 97.3#

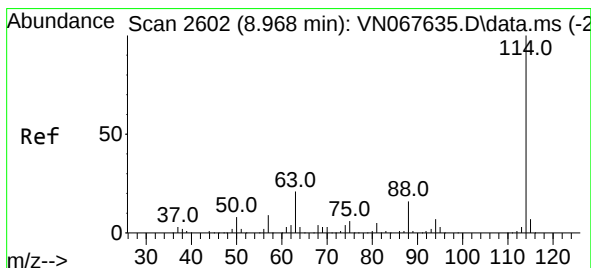
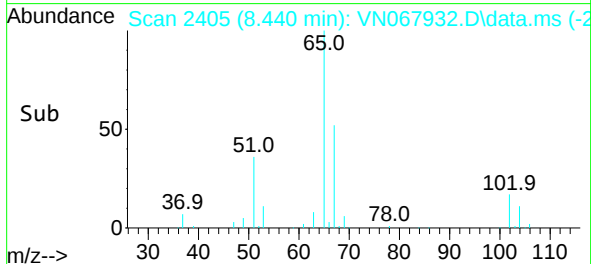
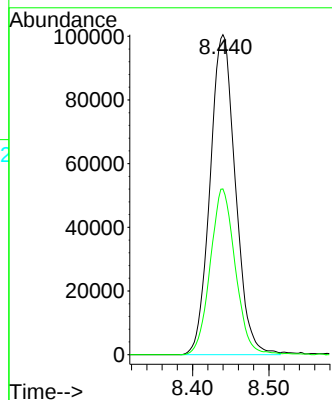
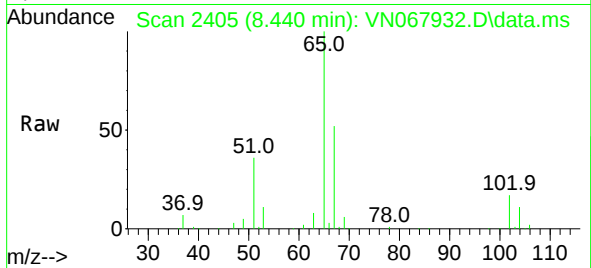




#33
1,2-Dichloroethane-d4
Concen: 53.542 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

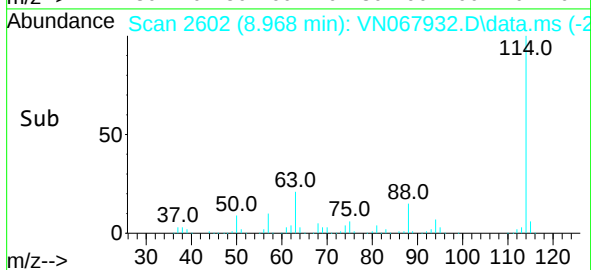
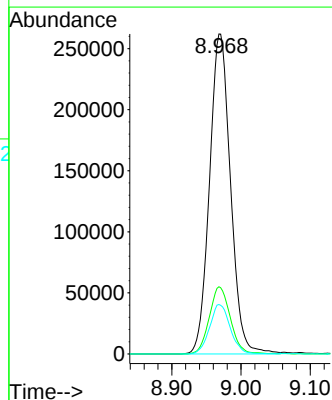
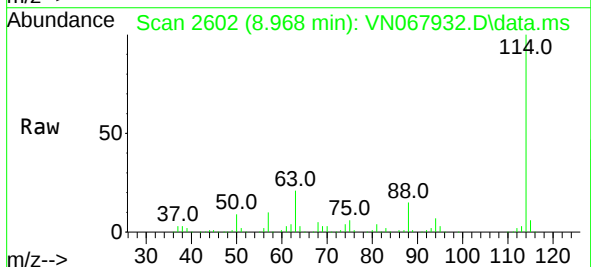
Instrument :
MSVOA_N
ClientSampled :

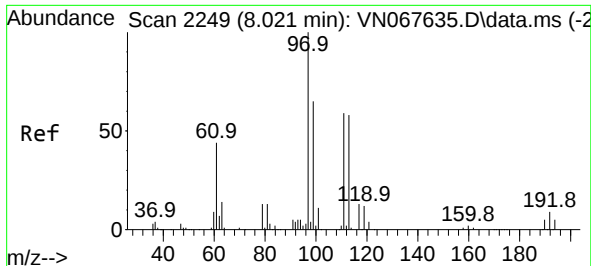
Tgt Ion: 65 Resp: 232028
Ion Ratio Lower Upper
65 100
67 51.1 0.0 98.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.000 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

Tgt Ion: 114 Resp: 552297
Ion Ratio Lower Upper
114 100
63 21.0 0.0 49.0
88 15.5 0.0 36.6

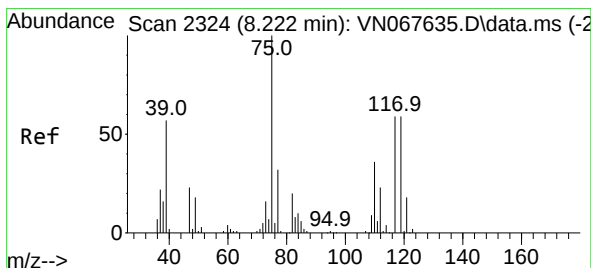
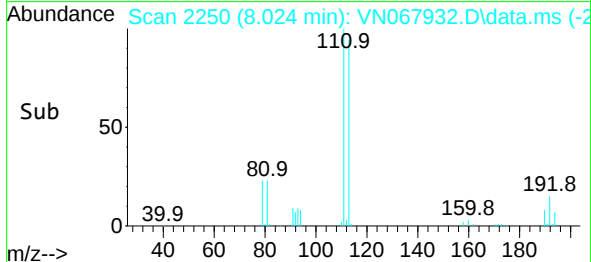
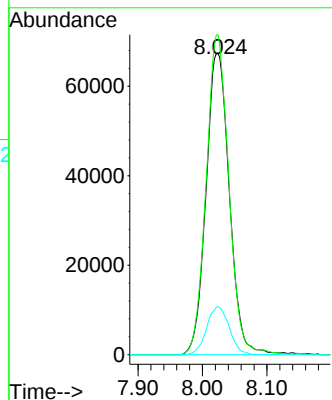
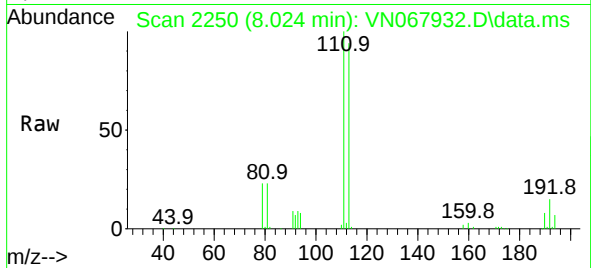




#35
Dibromofluoromethane
Concen: 50.806 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

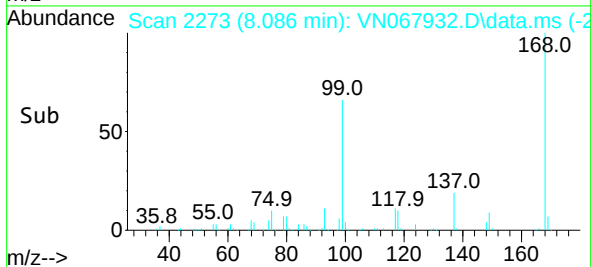
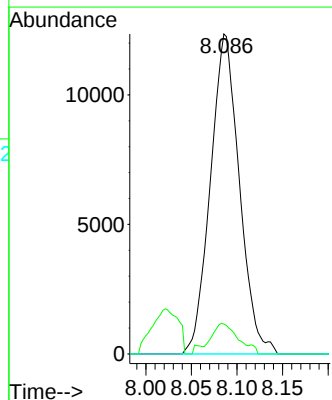
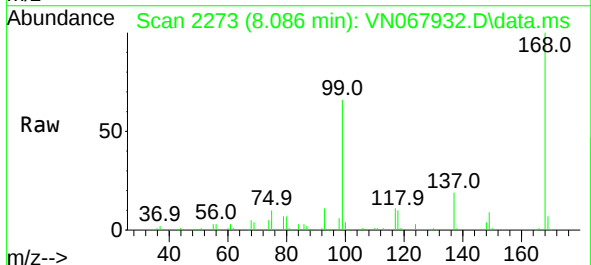
Instrument :
MSVOA_N
ClientSampled :

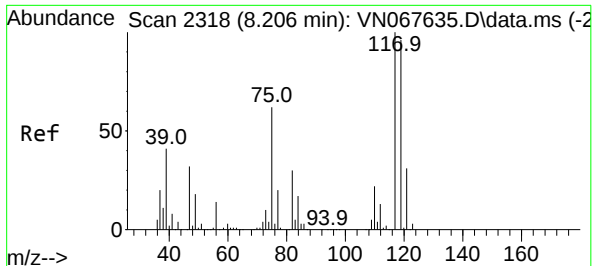
Tgt Ion:113 Resp: 169533
Ion Ratio Lower Upper
113 100
111 103.4 83.8 125.8
192 15.4 13.4 20.0



#36
1,1-Dichloropropene
Concen: 5.323 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

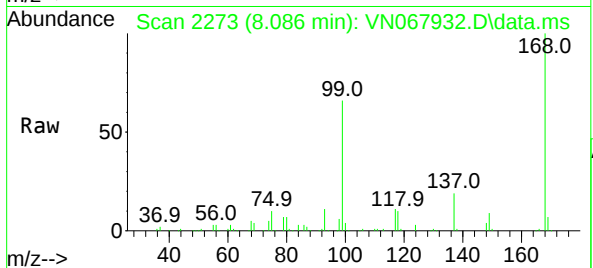
Tgt Ion: 75 Resp: 27310
Ion Ratio Lower Upper
75 100
110 8.7 15.7 47.0#
77 0.0 24.6 37.0#



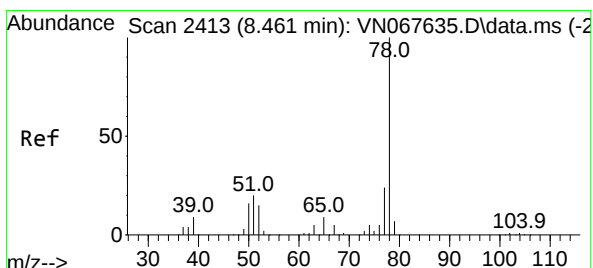
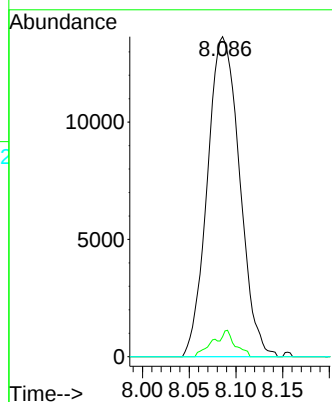
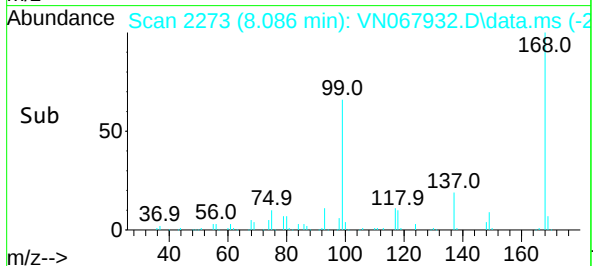


#38
Carbon Tetrachloride
Concen: 6.471 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

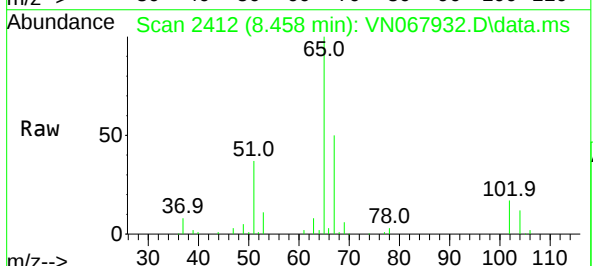
Instrument :
MSVOA_N
ClientSampled :



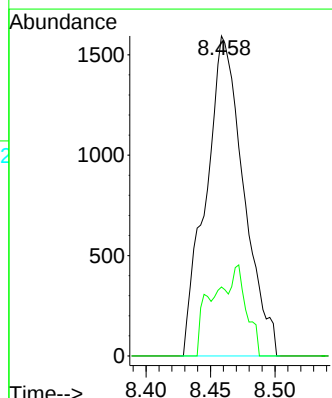
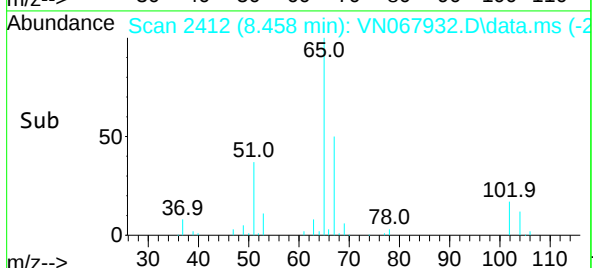
Tgt Ion:117 Resp: 32746
Ion Ratio Lower Upper
117 100
119 6.3 75.4 113.2#
121 0.0 23.5 35.3#

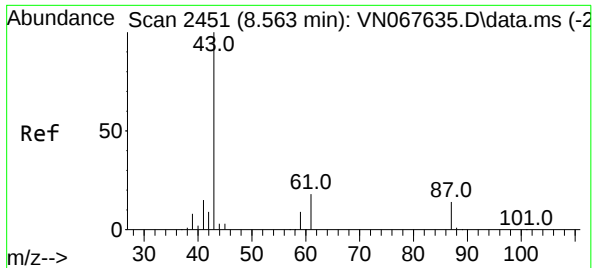


#40
Benzene
Concen: 0.211 ug/l
RT: 8.458 min Scan# 2412
Delta R.T. -0.003 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47



Tgt Ion: 78 Resp: 3242
Ion Ratio Lower Upper
78 100
77 21.5 18.9 28.3

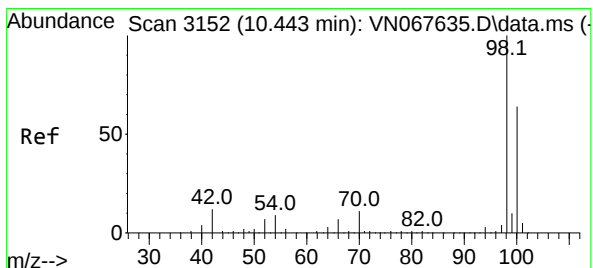
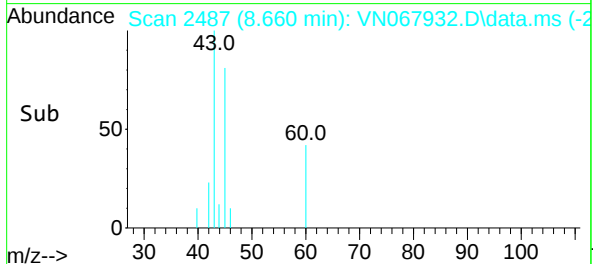
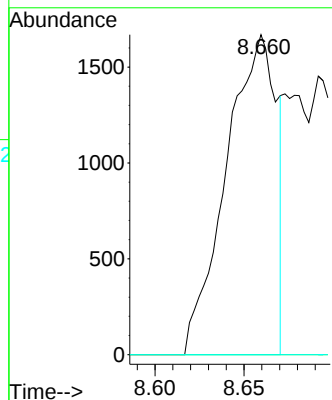
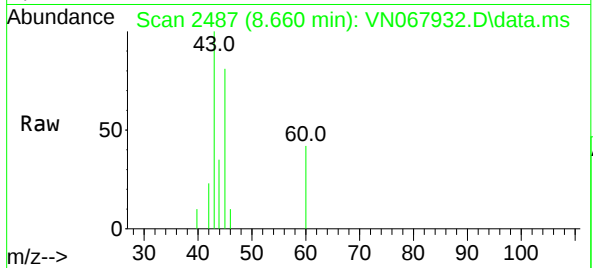




#43
Isopropyl Acetate
Concen: 0.376 ug/l
RT: 8.660 min Scan# 2487
Delta R.T. 0.097 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

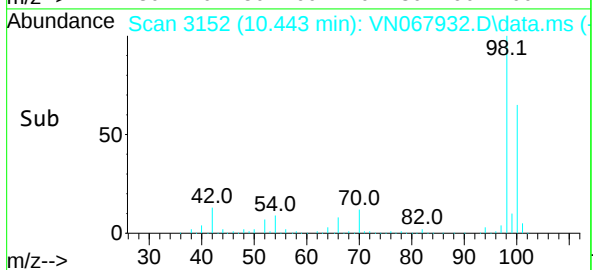
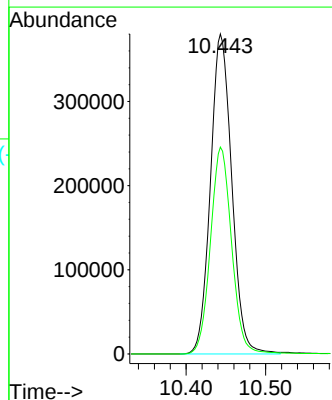
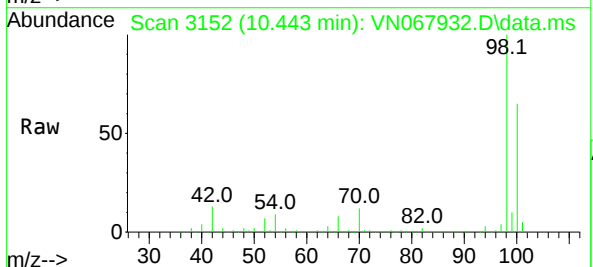
Instrument :
MSVOA_N
ClientSampleId :

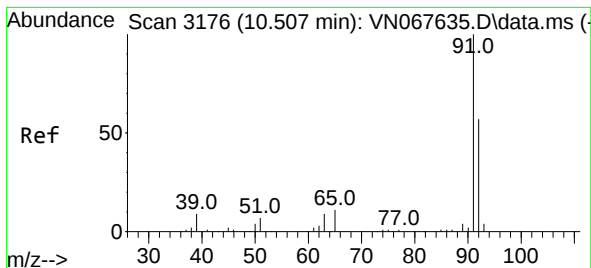
Tgt Ion: 43 Resp: 3287
Ion Ratio Lower Upper
43 100
61 0.0 19.0 28.4#
87 0.0 9.5 14.3#



#50
Toluene-d8
Concen: 50.710 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

Tgt Ion: 98 Resp: 708281
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5





#52

Toluene

Concen: 1.956 ug/l

RT: 10.507 min Scan# 3176

Delta R.T. 0.000 min

Lab File: VN067932.D

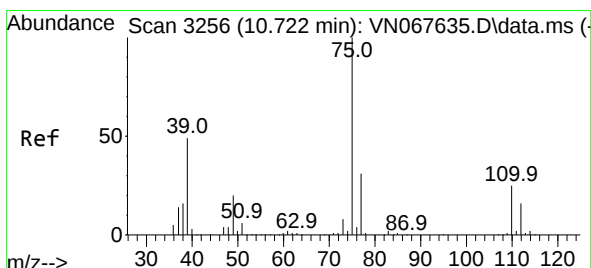
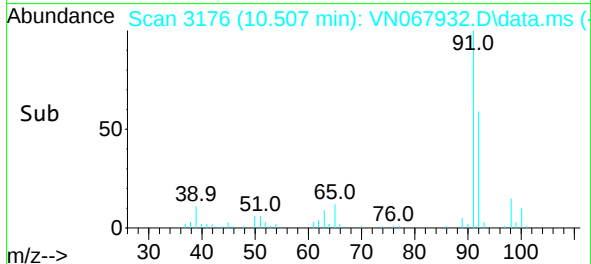
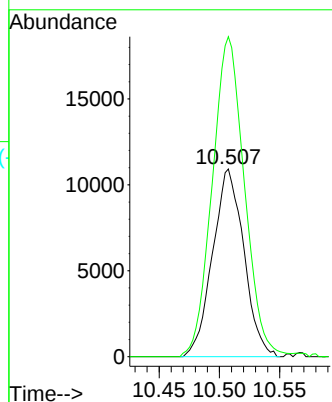
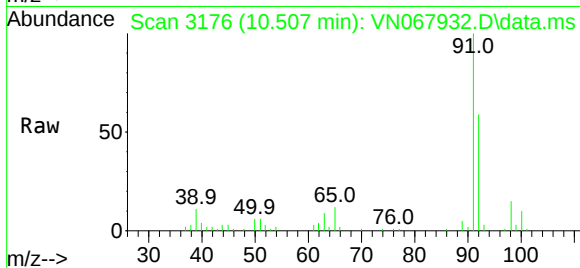
Acq: 27 Jul 2021 16:47

Tgt Ion: 92 Resp: 19675

Ion Ratio Lower Upper

92 100

91 175.3 139.6 209.4



#53

t-1,3-Dichloropropene

Concen: 1.748 ug/l

RT: 10.515 min Scan# 3179

Delta R.T. -0.207 min

Lab File: VN067932.D

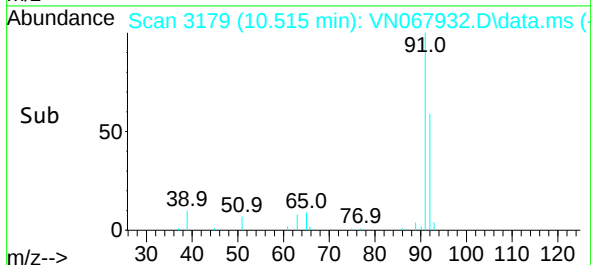
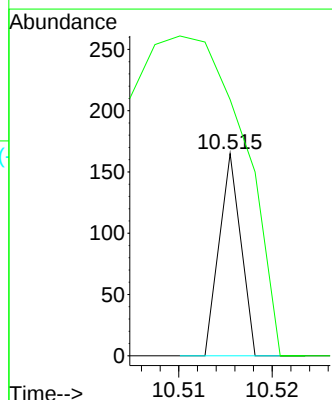
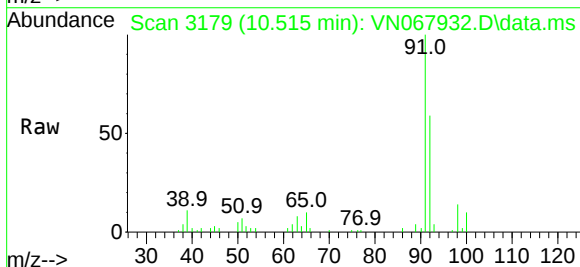
Acq: 27 Jul 2021 16:47

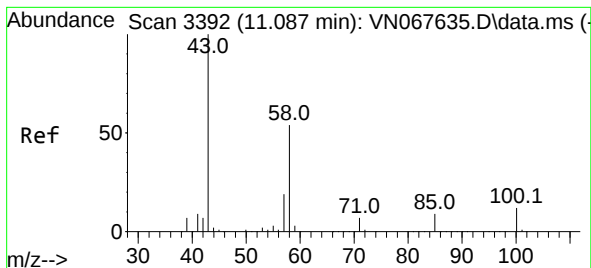
Tgt Ion: 75 Resp: 27

Ion Ratio Lower Upper

75 100

77 126.7 25.1 37.7#

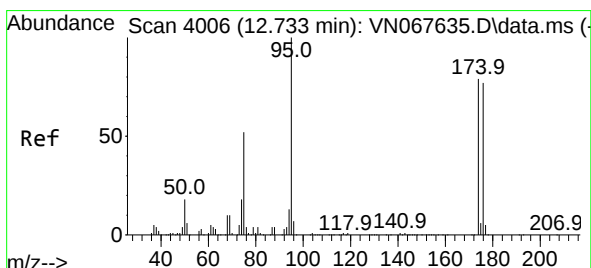
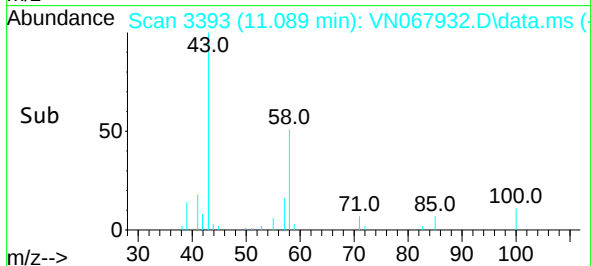
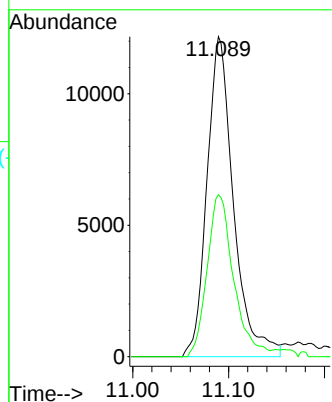
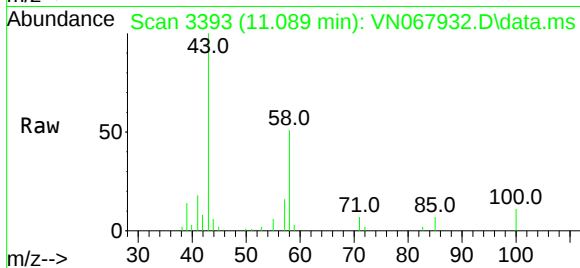




#59
2-Hexanone
Concen: 6.230 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.002 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

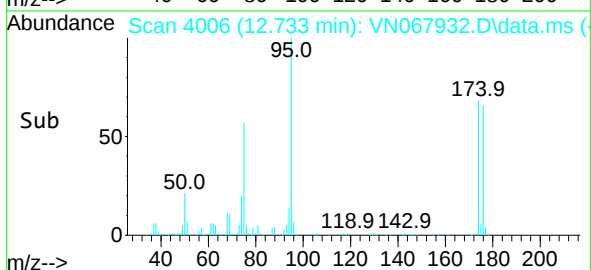
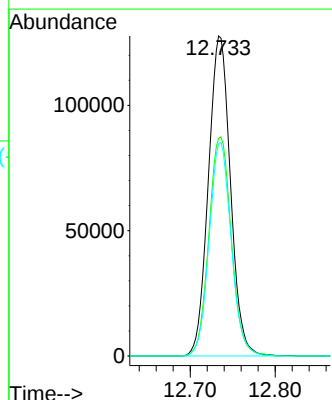
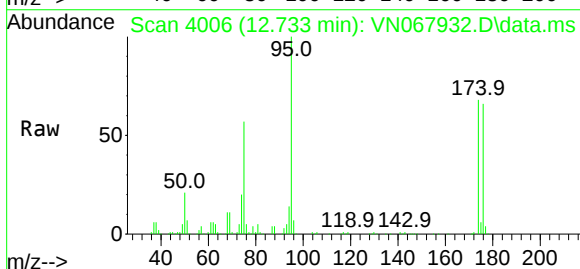
Instrument :
MSVOA_N
ClientSampled :

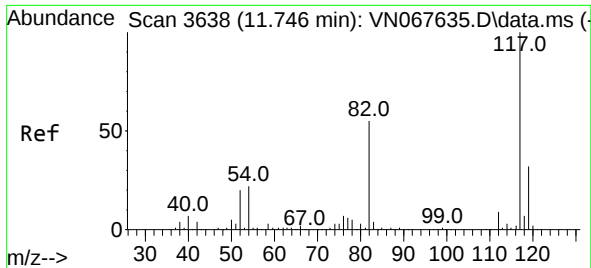
Tgt Ion: 43 Resp: 23359
Ion Ratio Lower Upper
43 100
58 50.6 24.7 74.1



#62
4-Bromofluorobenzene
Concen: 46.668 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

Tgt Ion: 95 Resp: 230261
Ion Ratio Lower Upper
95 100
174 69.8 0.0 122.0
176 66.5 0.0 117.6

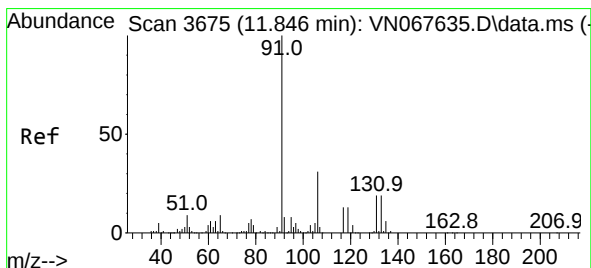
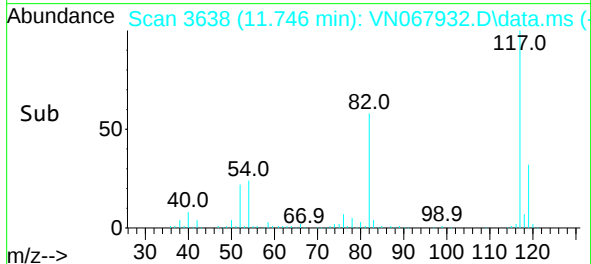
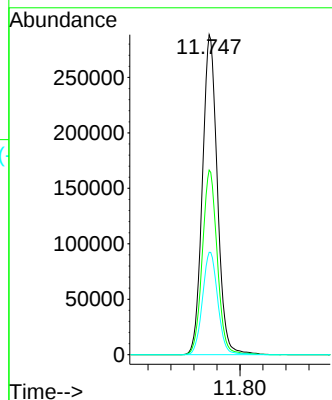
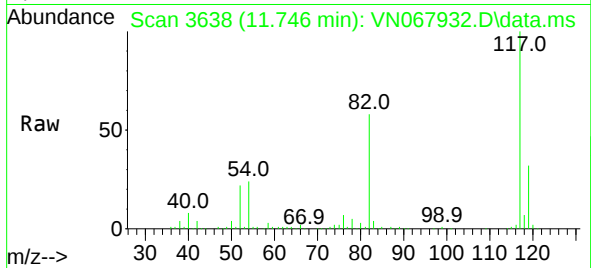




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

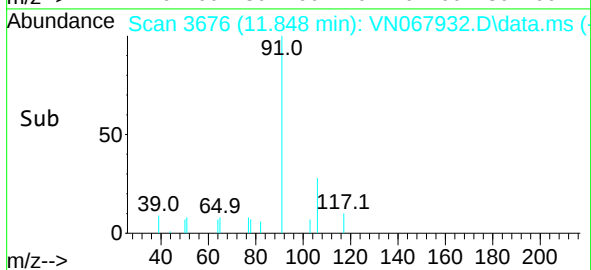
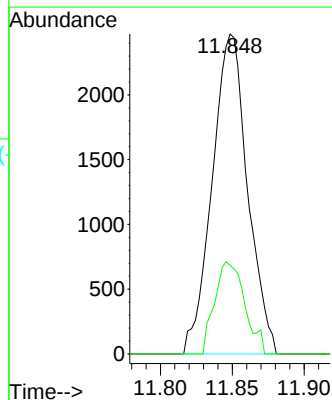
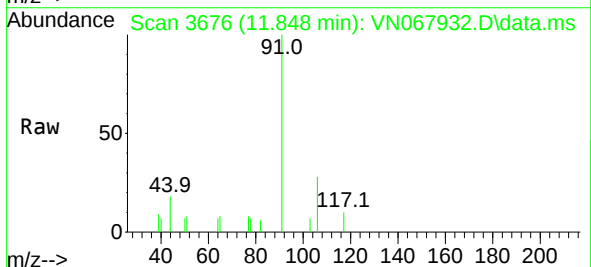
Instrument :
MSVOA_N
ClientSampleId :

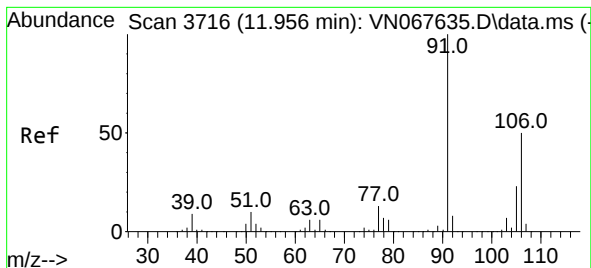
Tgt Ion:117 Resp: 520362
Ion Ratio Lower Upper
117 100
82 57.7 53.1 79.7
119 32.0 25.5 38.3



#67
Ethyl Benzene
Concen: 0.217 ug/l
RT: 11.848 min Scan# 3676
Delta R.T. 0.002 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

Tgt Ion: 91 Resp: 4225
Ion Ratio Lower Upper
91 100
106 27.7 23.4 35.0

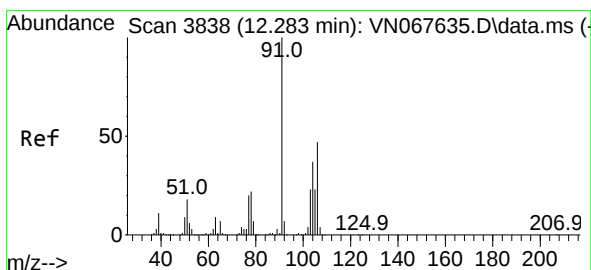
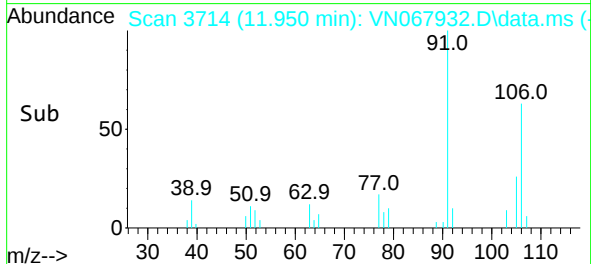
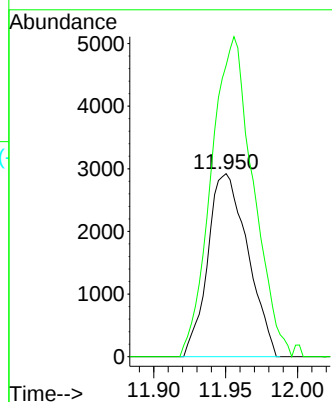
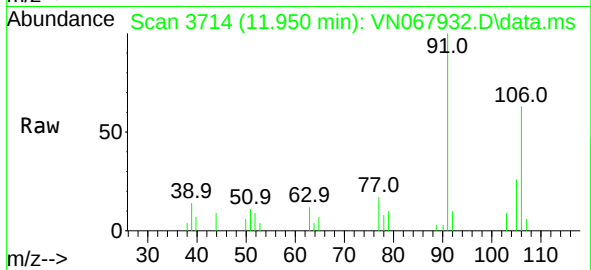




#68
m/p-Xylenes
Concen: 0.767 ug/l
RT: 11.950 min Scan# 3714
Delta R.T. -0.006 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

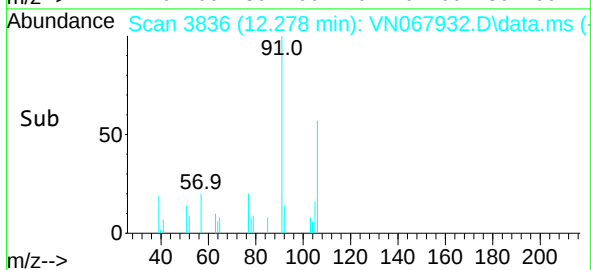
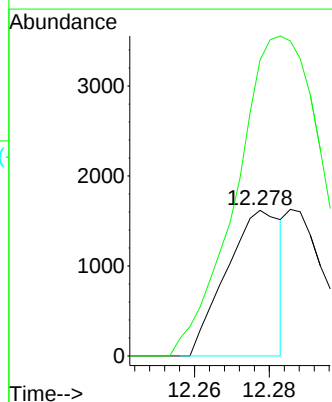
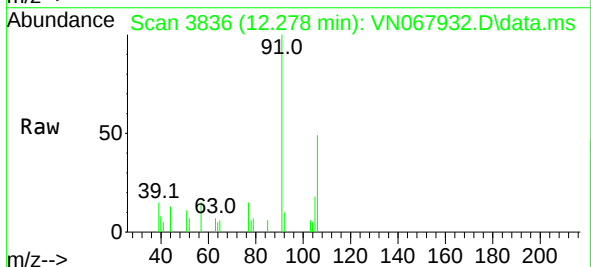
Instrument :
MSVOA_N
ClientSampleId :

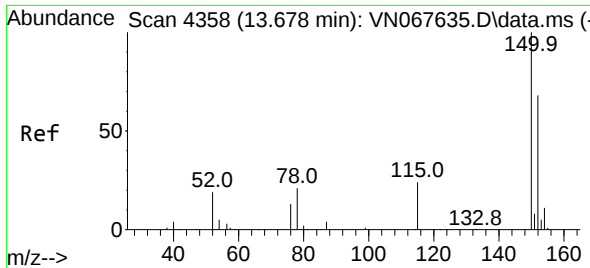
Tgt Ion:106 Resp: 5643
Ion Ratio Lower Upper
106 100
91 183.8 180.6 270.8



#69
o-Xylene
Concen: 0.226 ug/l
RT: 12.278 min Scan# 3836
Delta R.T. -0.005 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

Tgt Ion:106 Resp: 1632
Ion Ratio Lower Upper
106 100
91 361.1 118.3 354.9#

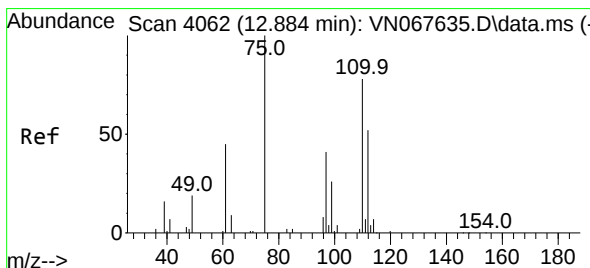
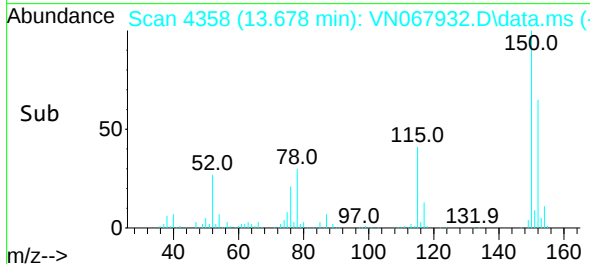
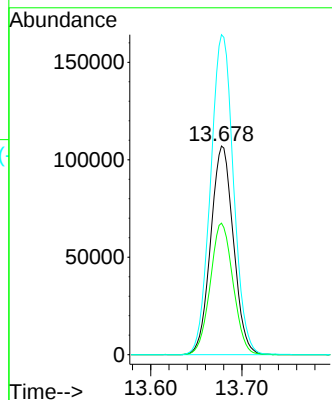
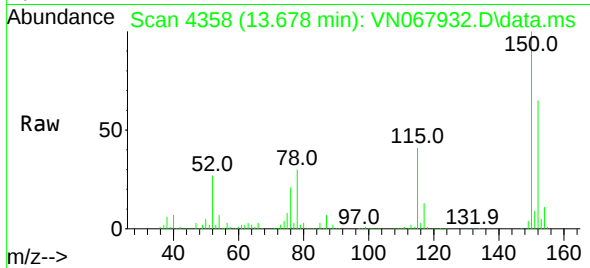




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.678 min Scan# 4358
 Delta R.T. -0.000 min
 Lab File: VN067932.D
 Acq: 27 Jul 2021 16:47

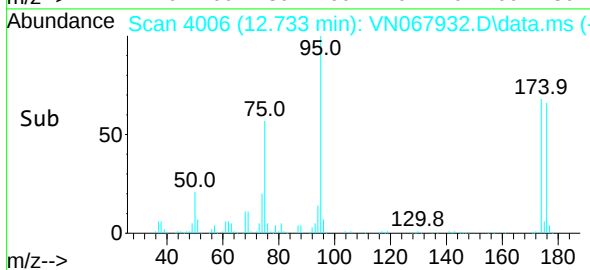
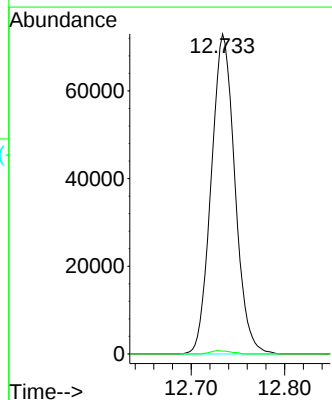
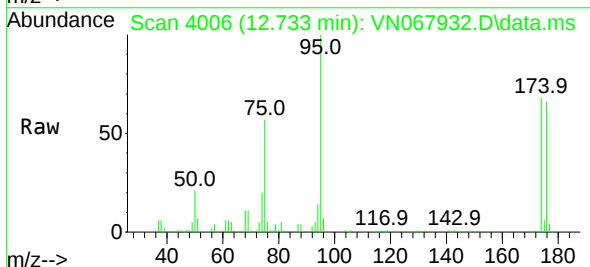
Instrument :
 MSVOA_N
 ClientSampleId :

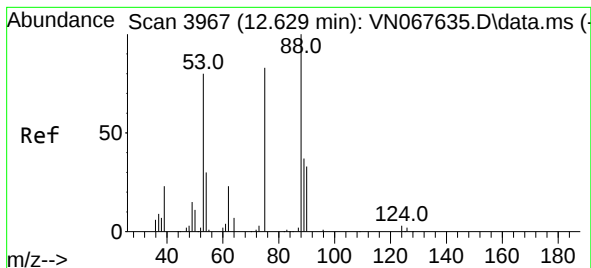
Tgt Ion:152 Resp: 185279
 Ion Ratio Lower Upper
 152 100
 115 63.4 36.1 108.5
 150 155.3 0.0 351.8



#76
 1,2,3-Trichloropropane
 Concen: 33.930 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. -0.151 min
 Lab File: VN067932.D
 Acq: 27 Jul 2021 16:47

Tgt Ion: 75 Resp: 128380
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#

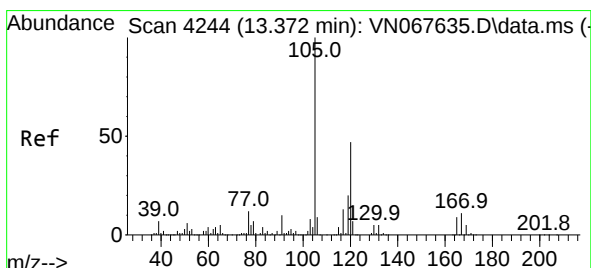
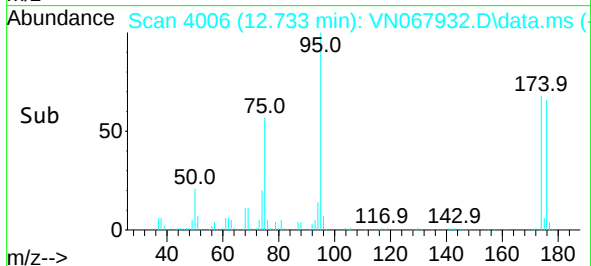
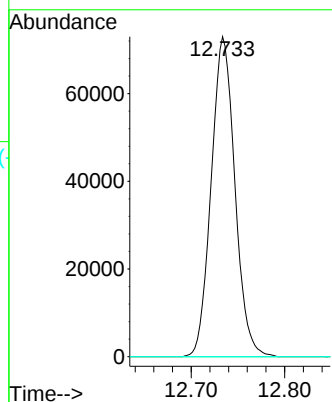
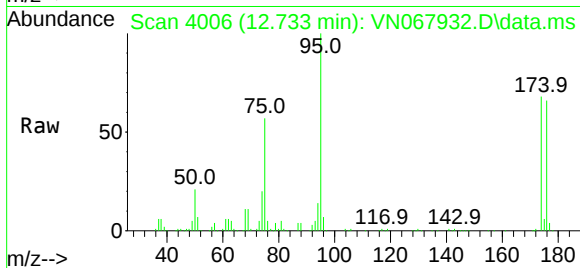




#81
 trans-1,4-Dichloro-2-butene
 Concen: 109.392 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. 0.104 min
 Lab File: VN067932.D
 Acq: 27 Jul 2021 16:47

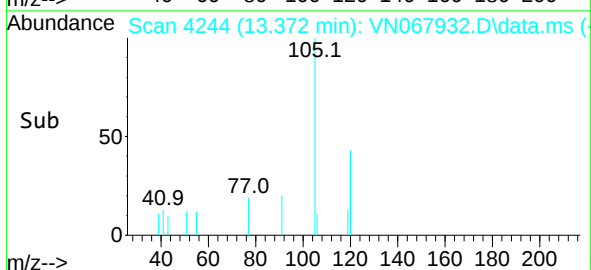
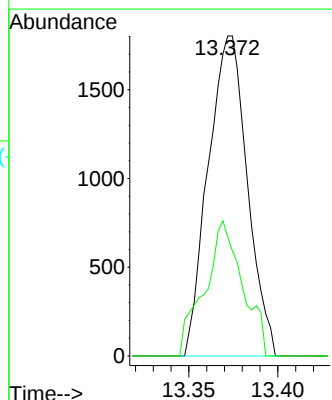
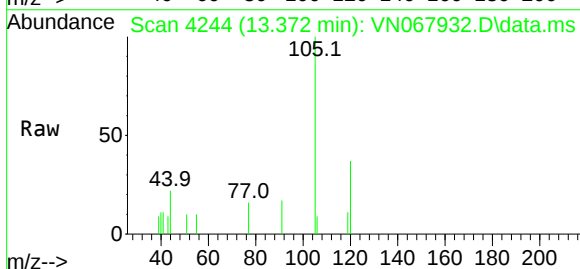
Instrument :
 MSVOA_N
 ClientSampled :

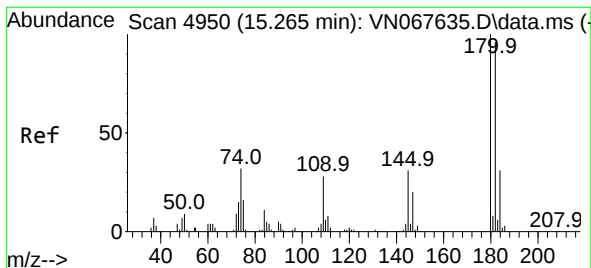
Tgt Ion: 75 Resp: 128380
 Ion Ratio Lower Upper
 75 100
 53 0.0 87.6 131.4#
 89 0.0 37.8 56.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.232 ug/l
 RT: 13.372 min Scan# 4244
 Delta R.T. -0.000 min
 Lab File: VN067932.D
 Acq: 27 Jul 2021 16:47

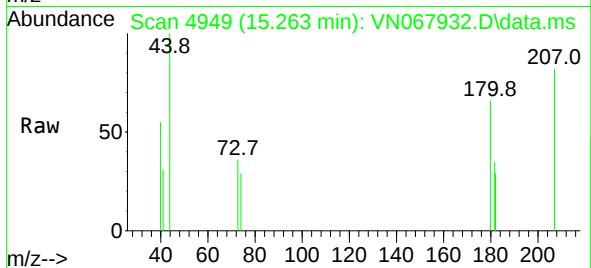
Tgt Ion: 105 Resp: 2757
 Ion Ratio Lower Upper
 105 100
 120 41.0 20.6 61.8



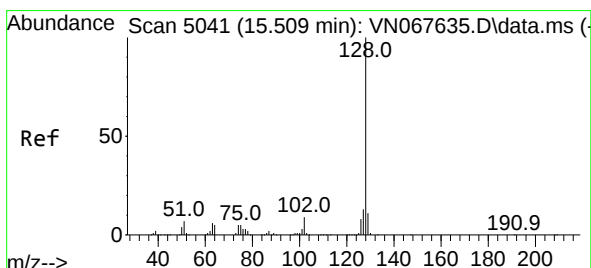
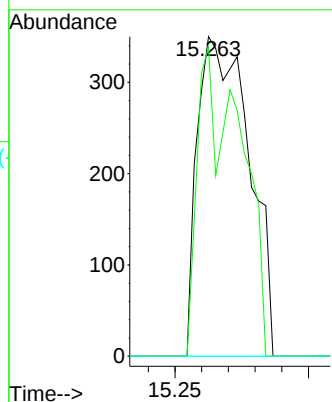
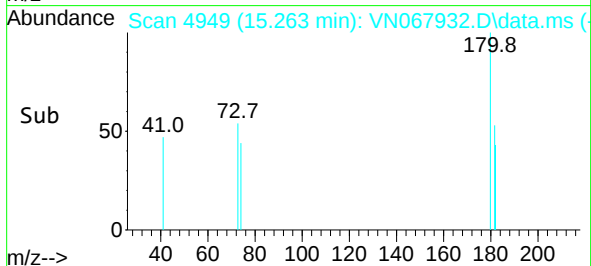


#93
1,2,4-Trichlorobenzene
Concen: 2.818 ug/l
RT: 15.263 min Scan# 4949
Delta R.T. -0.002 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47

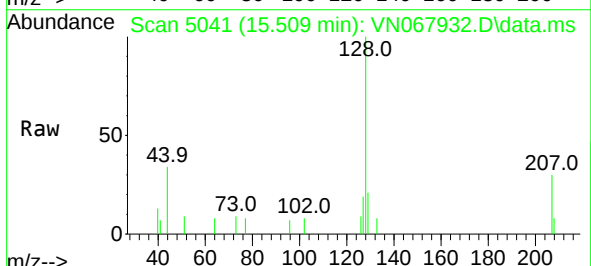
Instrument :
MSVOA_N
ClientSampleId :



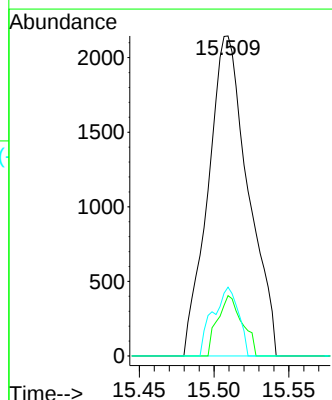
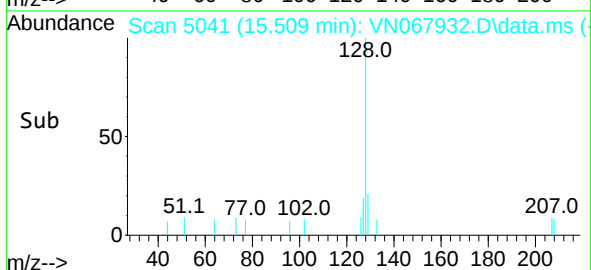
Tgt Ion:180 Resp: 470
Ion Ratio Lower Upper
180 100
182 34.3 47.5 142.5#
145 0.0 17.2 51.6#

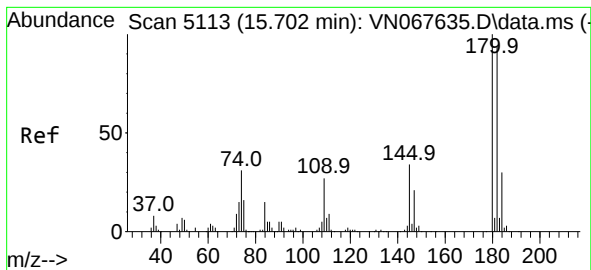


#95
Naphthalene
Concen: 3.425 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.000 min
Lab File: VN067932.D
Acq: 27 Jul 2021 16:47



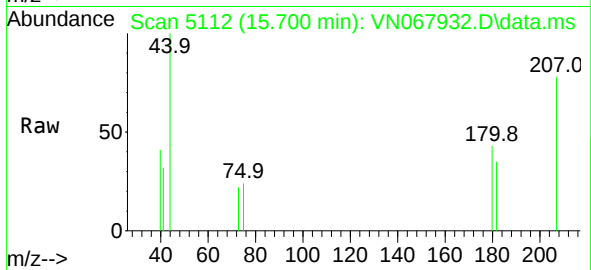
Tgt Ion:128 Resp: 3986
Ion Ratio Lower Upper
128 100
127 11.6 10.6 15.8
129 13.8 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.773 ug/l
 RT: 15.700 min Scan# 5112
 Delta R.T. -0.002 min
 Lab File: VN067932.D
 Acq: 27 Jul 2021 16:47

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 440
 Ion Ratio Lower Upper
 180 100
 182 45.2 47.8 143.3#
 145 13.2 18.2 54.6#

