

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071521\
 Data File : VN067764.D
 Acq On : 15 Jul 2021 15:07
 Operator : JC/MD
 Sample : M3060-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 16 03:02:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

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

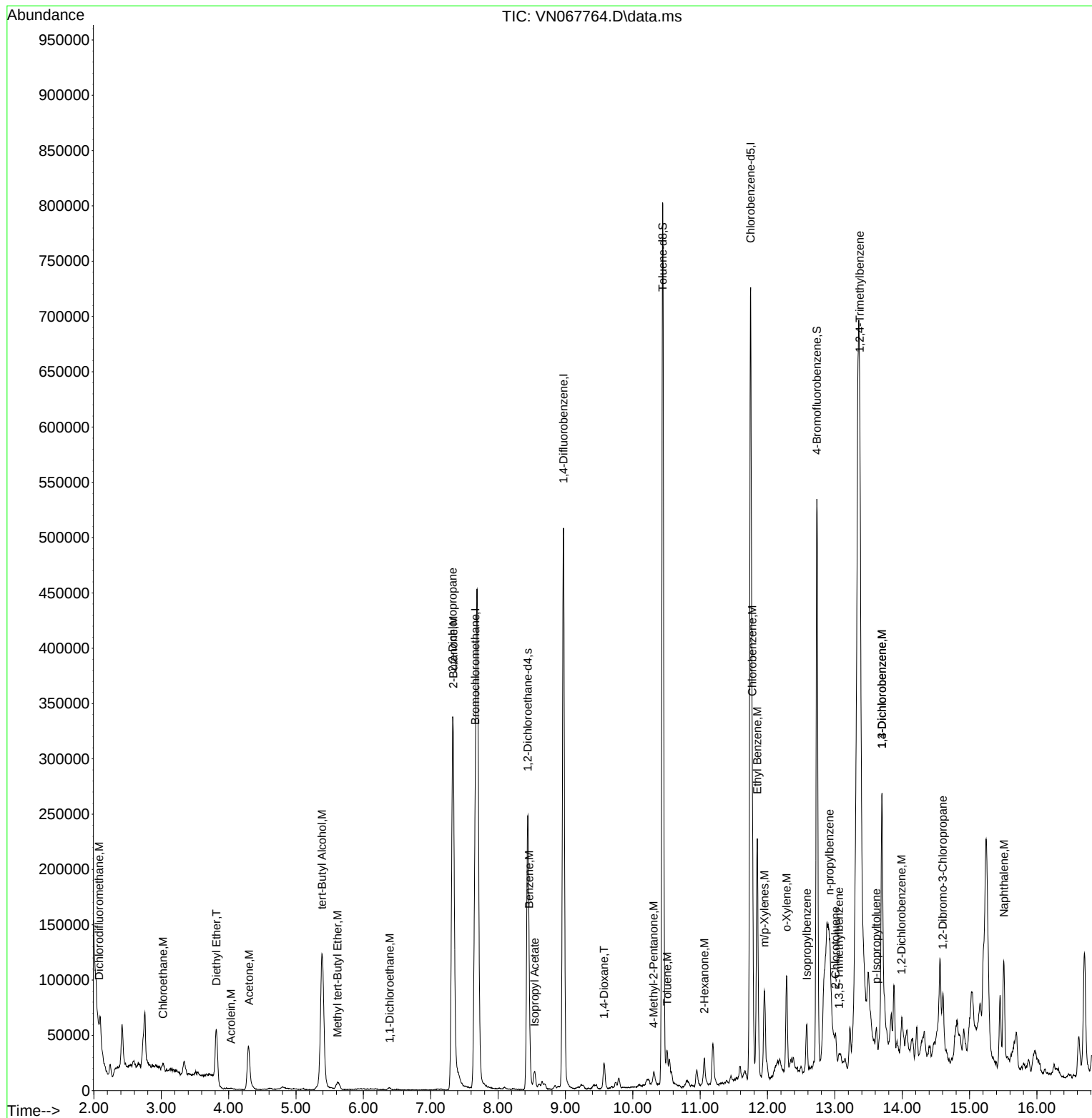
Internal Standards						
1) Bromochloromethane	7.662	128	77311	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	451347	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.749	117	398760	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	198449	31.773	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.900%
60) 4-Bromofluorobenzene	12.733	95	181952	28.096	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.667%
63) Toluene-d8	10.443	98	555421	30.283	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.933%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.078	85	1425	0.361	ug/l	99
6) Chloroethane	3.025	64	2228	0.390	ug/l	91
8) Diethyl Ether	3.819	74	28393	10.715	ug/l	91
13) Acrolein	4.033	56	550	1.026	ug/l #	41
15) Acetone	4.301	58	2037	3.651	ug/l	97
21) 1,1-Dichloroethane	6.393	63	3793	0.441	ug/l #	84
23) tert-Butyl Alcohol	5.385	59	222981	268.762	ug/l #	100
24) Methyl tert-Butyl Ether	5.615	73	6175	0.399	ug/l #	67
30) 2-Butanone	7.335	43	21729	6.626	ug/l #	69
31) 2,2-Dichloropropane	7.327	77	23560	2.982	ug/l #	54
34) Benzene	8.461	78	34029	1.608	ug/l #	19
44) Isopropyl Acetate	8.541	43	3484	0.289	ug/l #	60
45) 1,4-Dioxane	9.574	88	17606	193.135	ug/l #	95
58) 4-Methyl-2-Pentanone	10.309	43	7029	1.027	ug/l #	46
59) 2-Hexanone	11.063	43	20765	4.325	ug/l #	35
62) Toluene	10.510	91	19177	0.818	ug/l	96
64) Chlorobenzene	11.773	112	125167	8.910	ug/l	100
66) Ethyl Benzene	11.848	91	157090	6.053	ug/l	100
67) m/p-Xylenes	11.956	106	26967	2.724	ug/l	92
68) o-Xylene	12.283	106	22452	2.298	ug/l	99
70) Isopropylbenzene	12.583	105	26723	1.060	ug/l	96
74) n-propylbenzene	12.921	91	26438	0.915	ug/l	56
75) 2-Chlorotoluene	13.010	91	9272	0.535	ug/l	100
76) 1,3,5-Trimethylbenzene	13.063	105	4383	0.211	ug/l	93
80) 1,2,4-Trimethylbenzene	13.369	105	28136	1.365	ug/l #	80
82) p-Isopropyltoluene	13.616	119	7725	0.375	ug/l	90
83) 1,3-Dichlorobenzene	13.699	146	72214	6.671	ug/l	99
84) 1,4-Dichlorobenzene	13.699	146	72214	6.849	ug/l	99
87) 1,2-Dichlorobenzene	13.991	146	5410	0.523	ug/l	74
88) 1,2-Dibromo-3-Chloropr...	14.603	75	473	0.369	ug/l #	37
91) Naphthalene	15.509	128	84828	6.337	ug/l	98

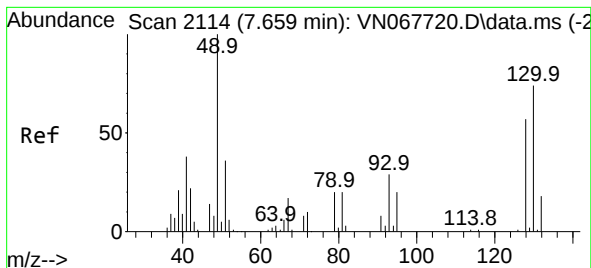
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071521\
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MSVOA_N
ClientSampleId :

Quant Time: Jul 16 03:02:15 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jul 14 01:19:19 2021
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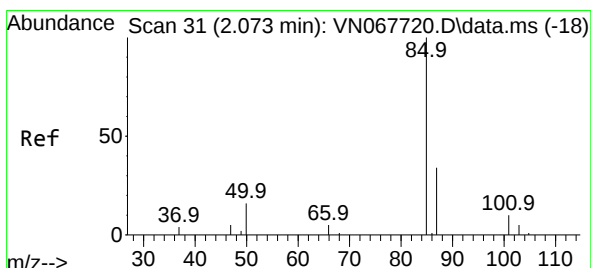
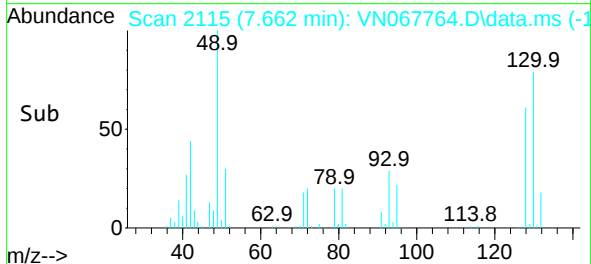
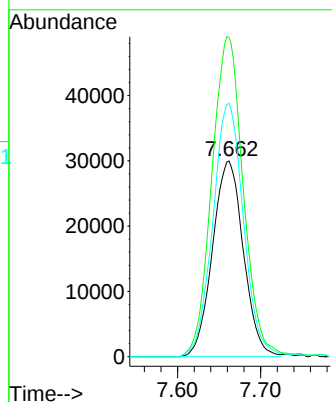
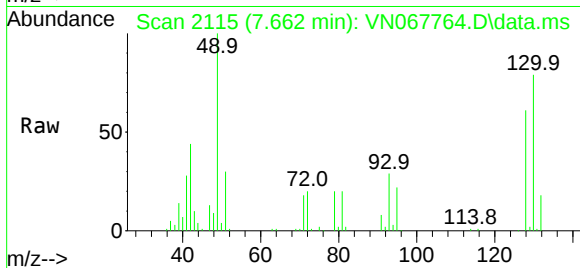


#1

Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Instrument :
MSVOA_N
ClientSampled :

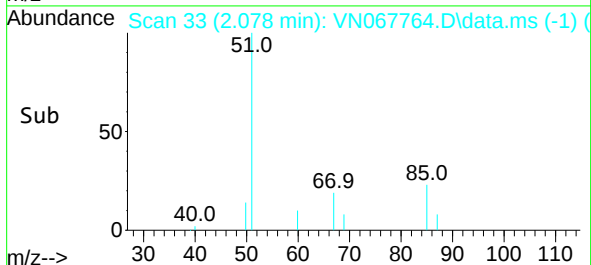
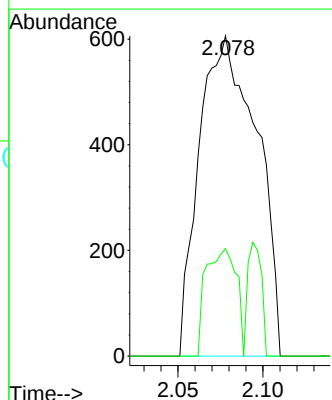
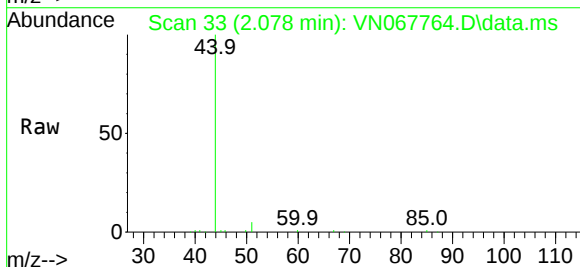
Tgt Ion:128 Resp: 77311
Ion Ratio Lower Upper
128 100
49 166.4 0.0 433.0
130 128.9 0.0 323.8

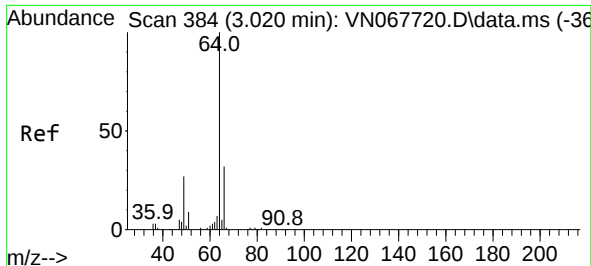


#2

Dichlorodifluoromethane
Concen: 0.361 ug/l
RT: 2.078 min Scan# 33
Delta R.T. 0.005 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 85 Resp: 1425
Ion Ratio Lower Upper
85 100
87 33.5 17.0 50.9

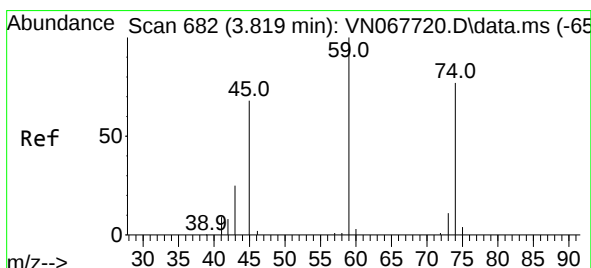
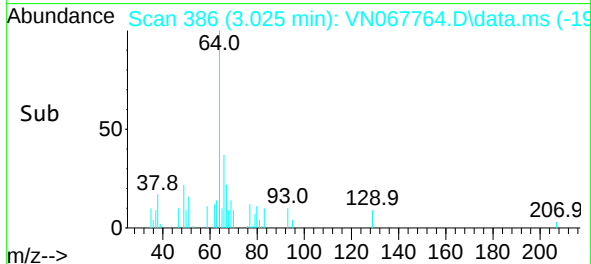
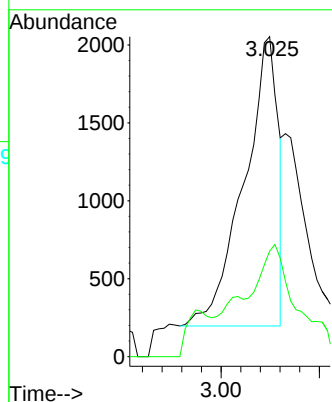
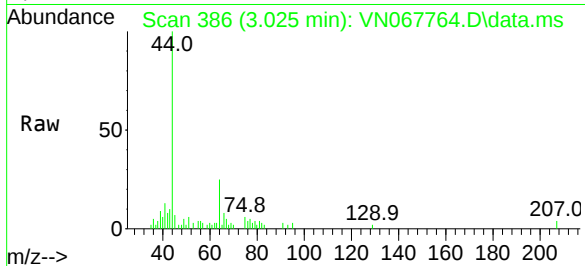




#6
Chloroethane
Concen: 0.390 ug/l
RT: 3.025 min Scan# 386
Delta R.T. 0.005 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

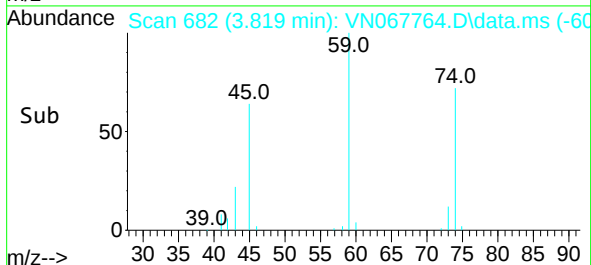
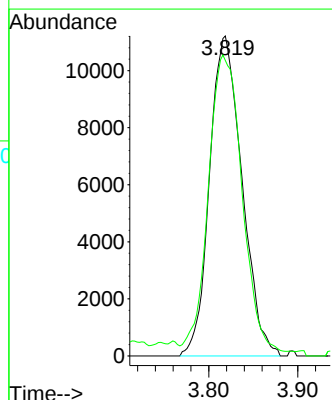
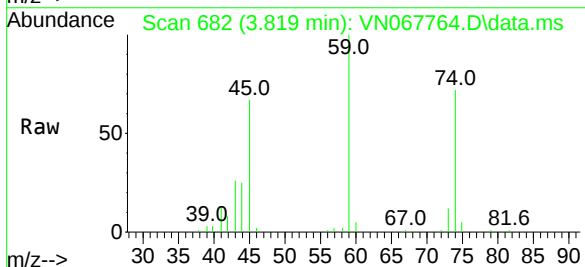
Instrument :
MSVOA_N
ClientSampled :

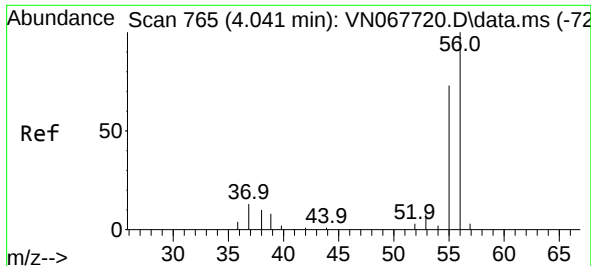
Tgt Ion: 64 Resp: 2228
Ion Ratio Lower Upper
64 100
66 36.5 25.4 38.0



#8
Diethyl Ether
Concen: 10.715 ug/l
RT: 3.819 min Scan# 682
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 74 Resp: 28393
Ion Ratio Lower Upper
74 100
45 95.2 17.5 157.1

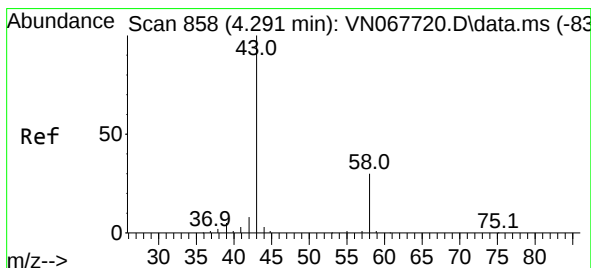
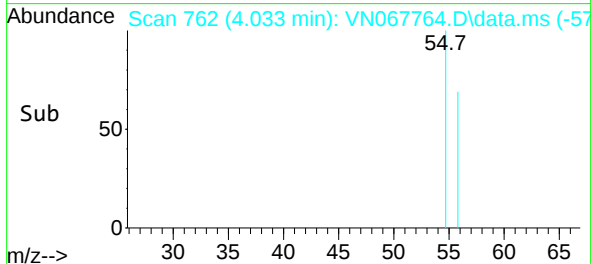
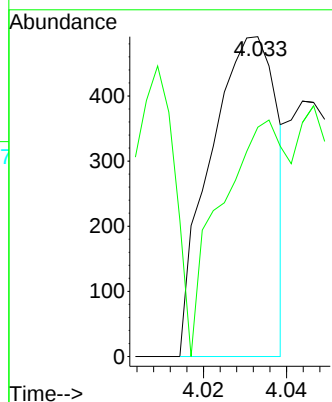
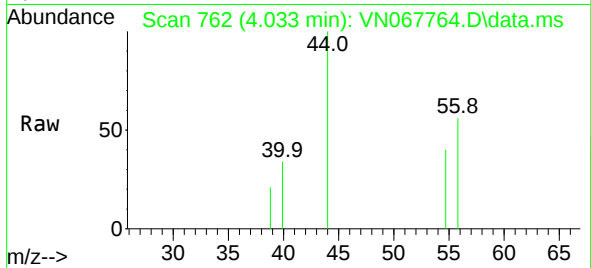




#13
Acrolein
Concen: 1.026 ug/l
RT: 4.033 min Scan# 762
Delta R.T. -0.008 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

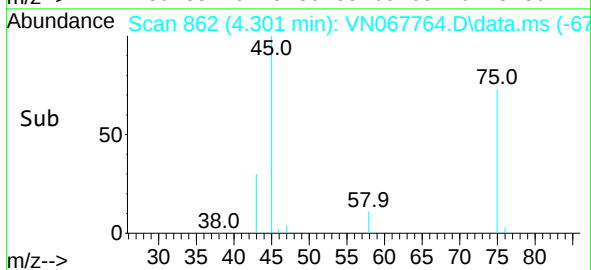
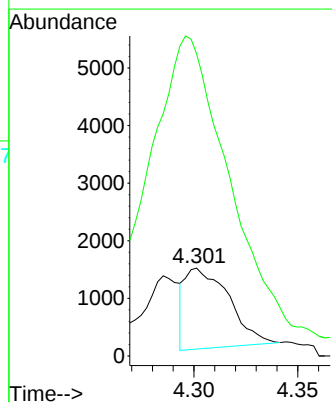
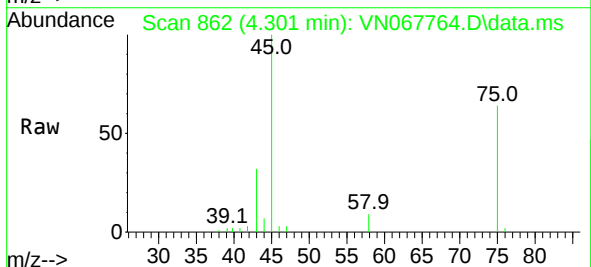
Instrument :
MSVOA_N
ClientSampled :

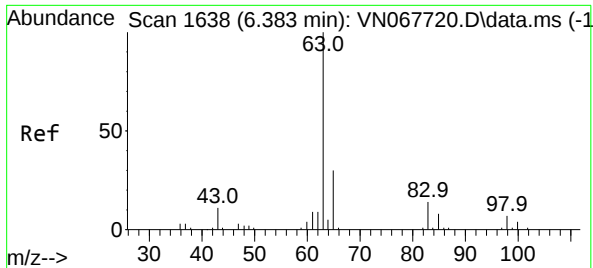
Tgt Ion: 56 Resp: 550
Ion Ratio Lower Upper
56 100
55 75.3 0.2 0.2#



#15
Acetone
Concen: 3.651 ug/l
RT: 4.301 min Scan# 862
Delta R.T. 0.011 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 58 Resp: 2037
Ion Ratio Lower Upper
58 100
43 341.6 268.2 402.4

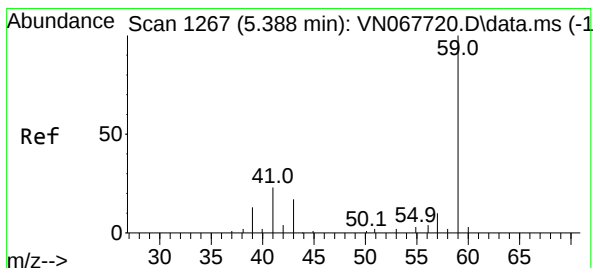
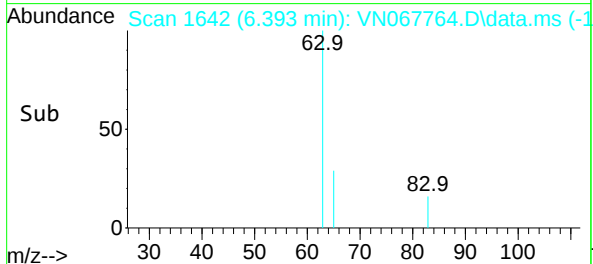
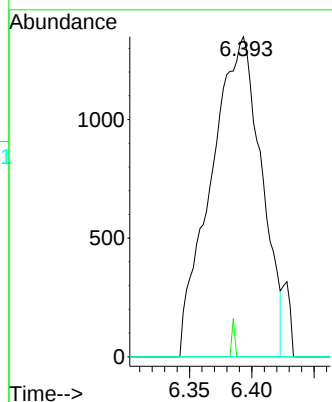
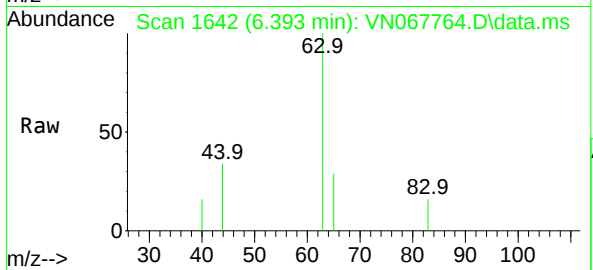




#21
1,1-Dichloroethane
Concen: 0.441 ug/l
RT: 6.393 min Scan# 1642
Delta R.T. 0.011 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

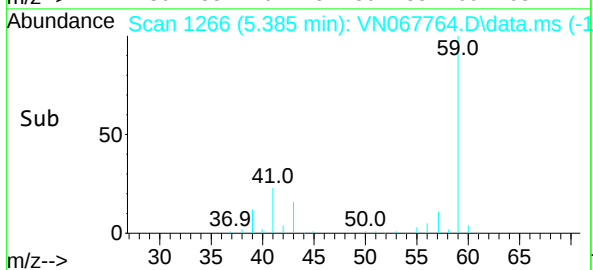
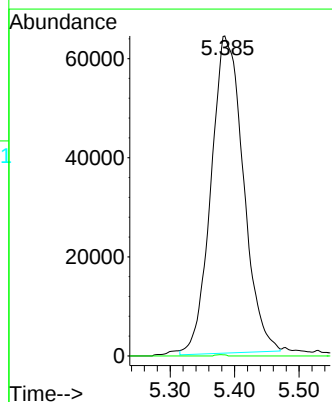
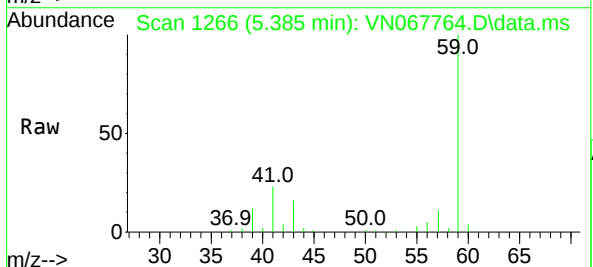
Instrument :
MSVOA_N
ClientSampled :

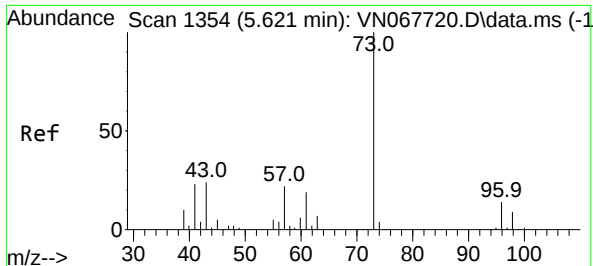
Tgt Ion: 63 Resp: 3793
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.8#
100 0.0 2.0 5.8#



#23
tert-Butyl Alcohol
Concen: 268.762 ug/l
RT: 5.385 min Scan# 1266
Delta R.T. -0.003 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 59 Resp: 222981
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#

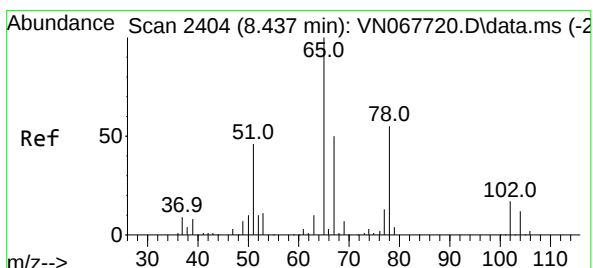
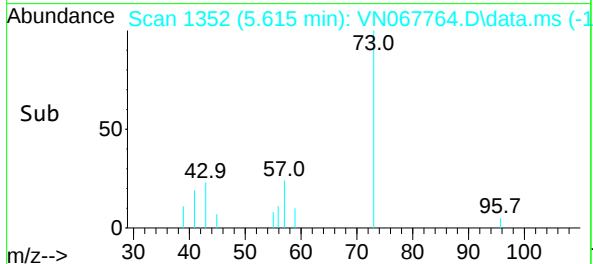
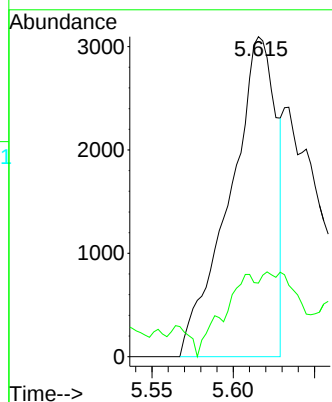
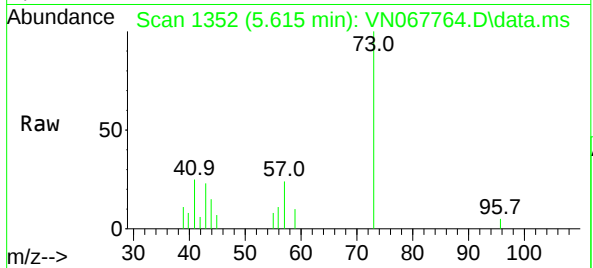




#24
Methyl tert-Butyl Ether
Concen: 0.399 ug/l
RT: 5.615 min Scan# 1352
Delta R.T. -0.006 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

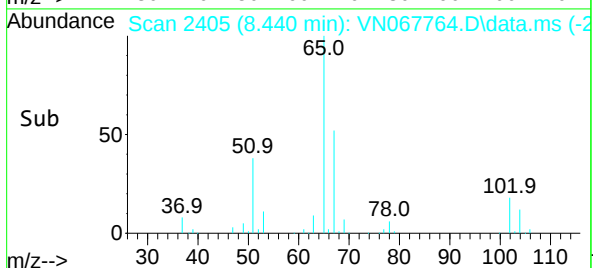
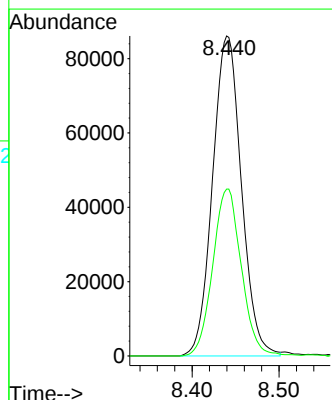
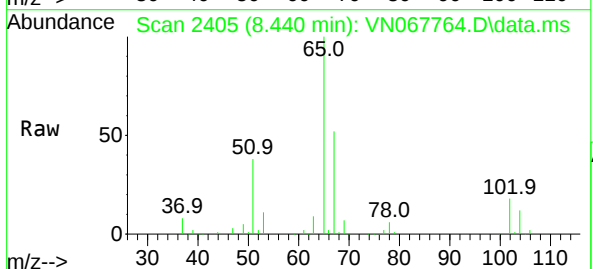
Instrument :
MSVOA_N
ClientSampleId :

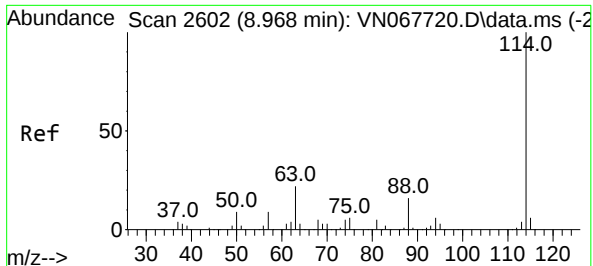
Tgt Ion: 73 Resp: 6175
Ion Ratio Lower Upper
73 100
43 7.1 18.6 27.8#



#27
1,2-Dichloroethane-d4
Concen: 31.773 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 65 Resp: 198449
Ion Ratio Lower Upper
65 100
67 51.5 40.6 60.8



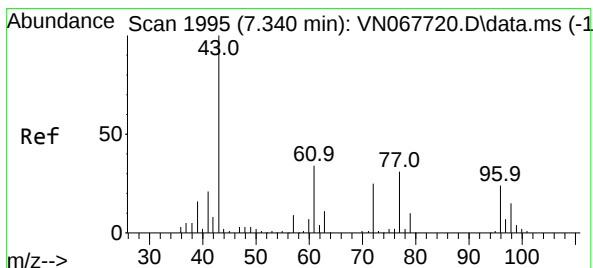
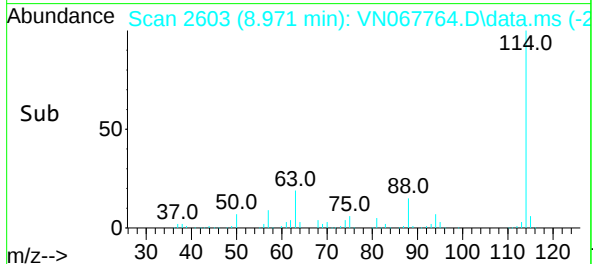
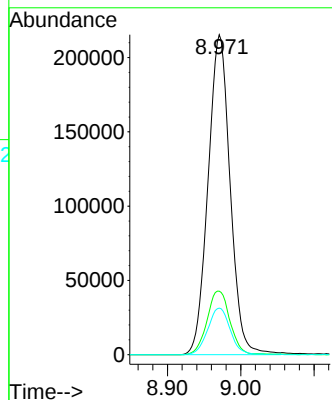
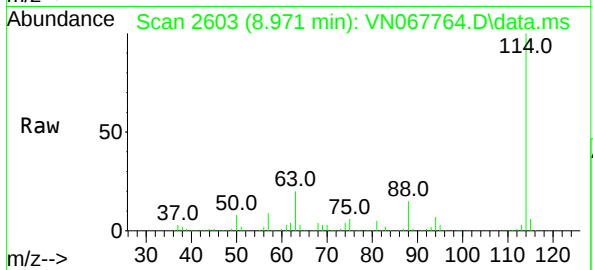


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Instrument :
MSVOA_N
ClientSampled :

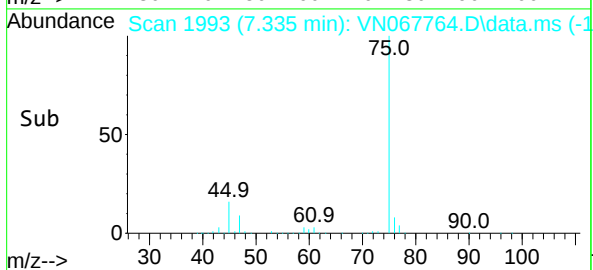
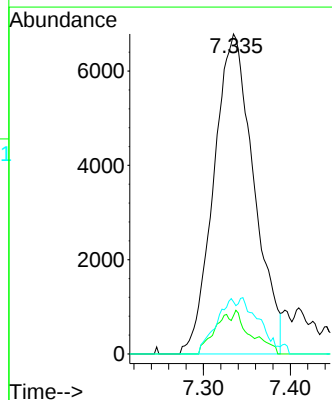
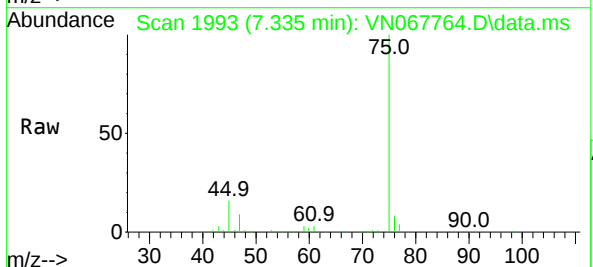
Tgt Ion:114 Resp: 451347
Ion Ratio Lower Upper
114 100
63 20.5 17.2 25.8
88 14.8 12.4 18.6

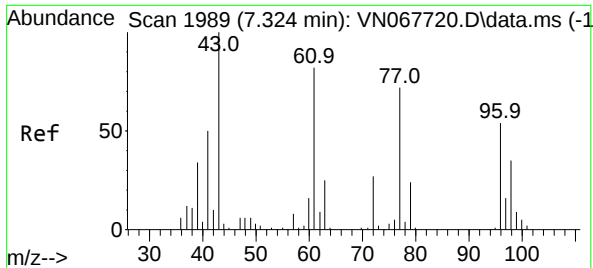


#30

2-Butanone
Concen: 6.626 ug/l
RT: 7.335 min Scan# 1993
Delta R.T. -0.006 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 43 Resp: 21729
Ion Ratio Lower Upper
43 100
57 2.4 6.6 9.8#
72 8.5 21.8 32.6#

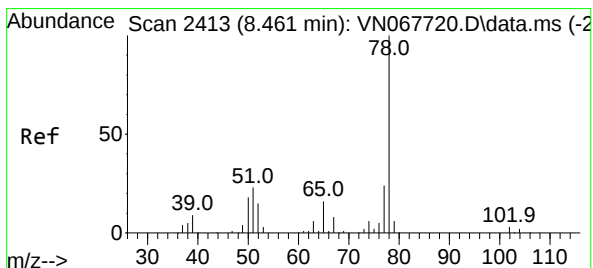
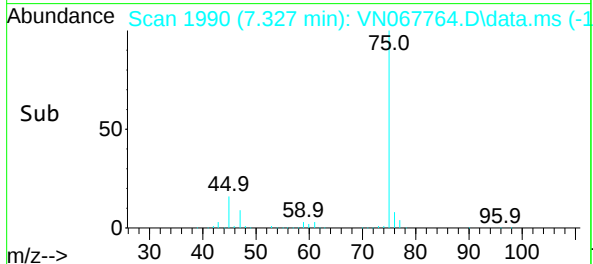
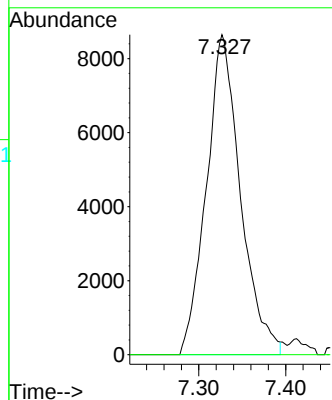
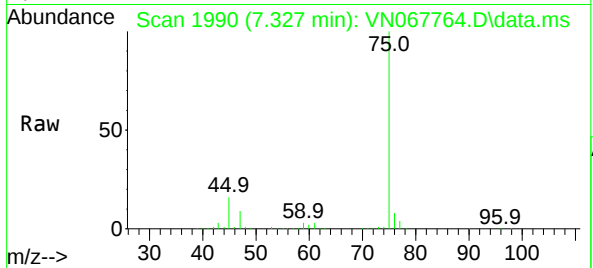




#31
2,2-Dichloropropane
Concen: 2.982 ug/l
RT: 7.327 min Scan# 1990
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

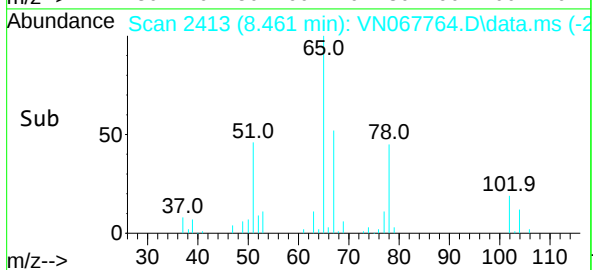
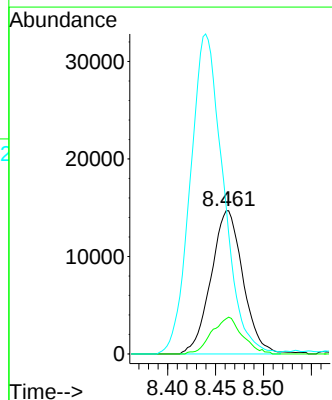
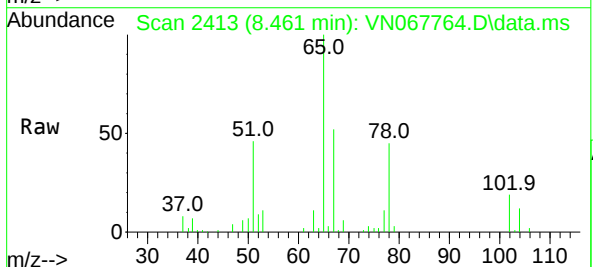
Instrument :
MSVOA_N
ClientSampled :

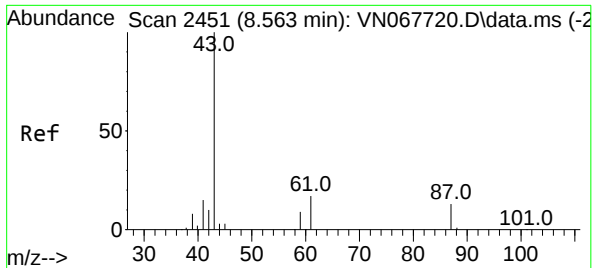
Tgt Ion: 77 Resp: 23560
Ion Ratio Lower Upper
77 100
97 0.0 17.8 26.6#



#34
Benzene
Concen: 1.608 ug/l
RT: 8.461 min Scan# 2413
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 78 Resp: 34029
Ion Ratio Lower Upper
78 100
77 24.6 19.1 28.7
51 102.0 18.2 27.4#

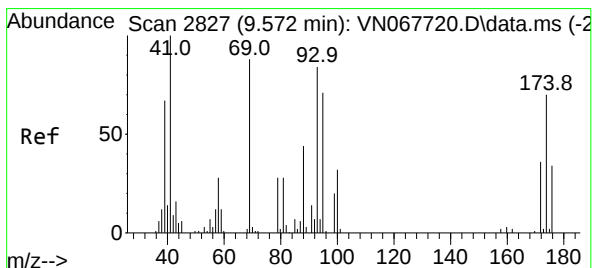
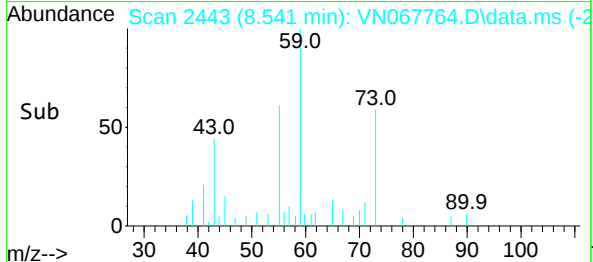
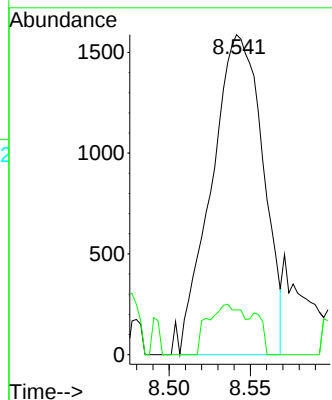
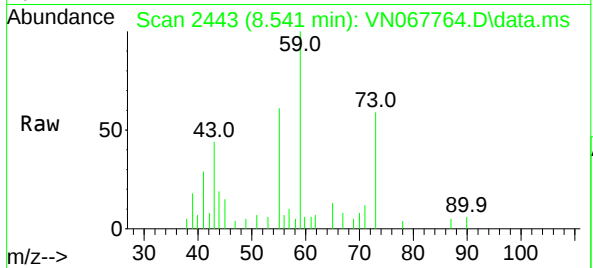




#44
Isopropyl Acetate
Concen: 0.289 ug/l
RT: 8.541 min Scan# 2443
Delta R.T. -0.022 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

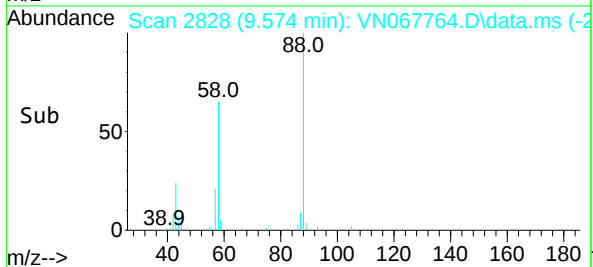
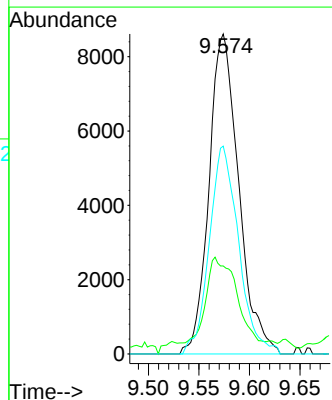
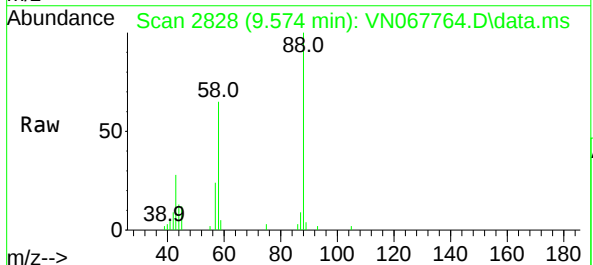
Instrument :
MSVOA_N
ClientSampled :

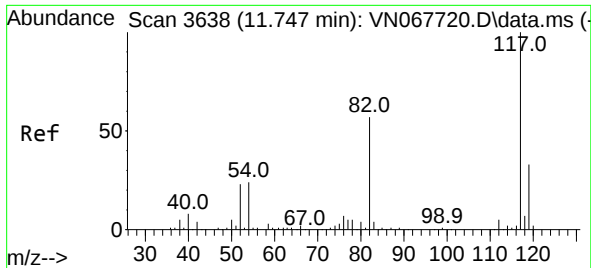
Tgt Ion: 43 Resp: 3484
Ion Ratio Lower Upper
43 100
61 5.2 20.4 30.6#



#45
1,4-Dioxane
Concen: 193.135 ug/l
RT: 9.574 min Scan# 2828
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 88 Resp: 17606
Ion Ratio Lower Upper
88 100
43 26.7 26.9 40.3#
58 63.7 52.2 78.4

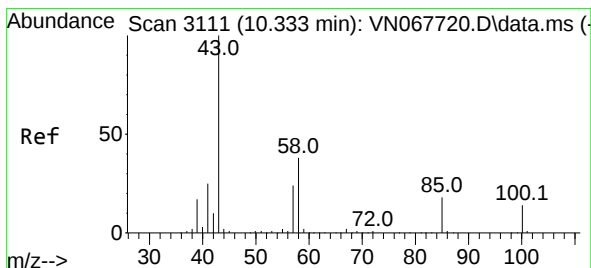
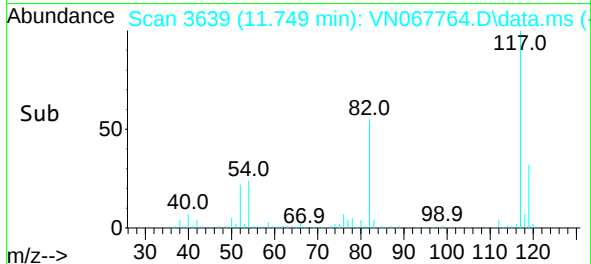
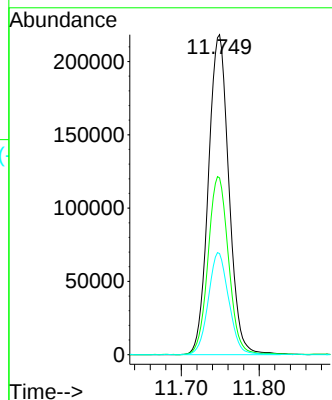
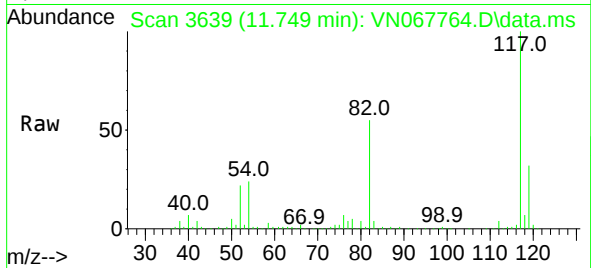




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

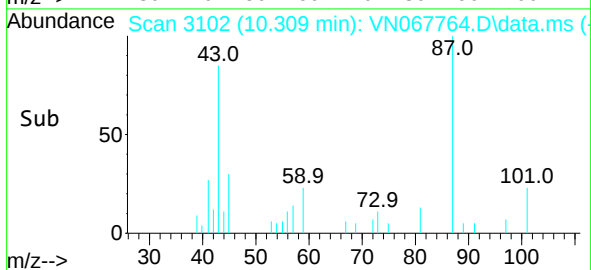
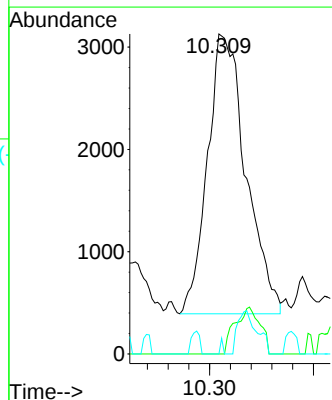
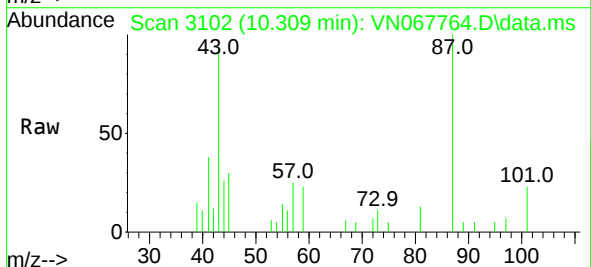
Instrument :
MSVOA_N
ClientSampled :

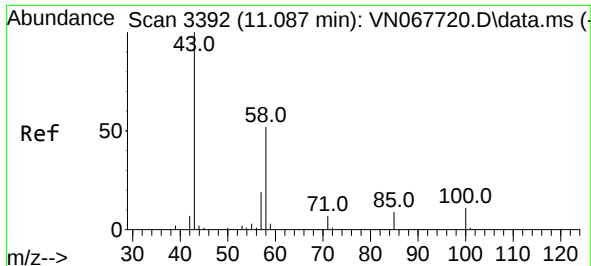
Tgt Ion:117 Resp: 398760
Ion Ratio Lower Upper
117 100
82 55.5 45.4 68.0
119 31.8 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 1.027 ug/l
RT: 10.309 min Scan# 3102
Delta R.T. -0.024 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 43 Resp: 7029
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#
85 1.7 14.1 21.1#

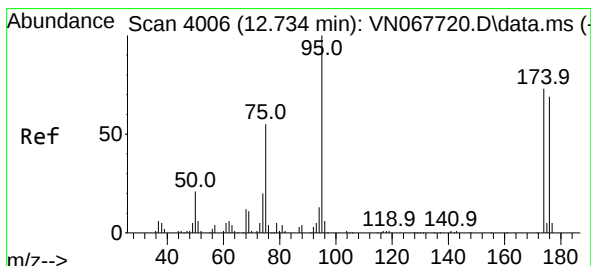
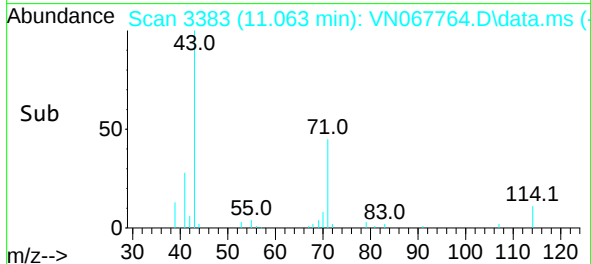
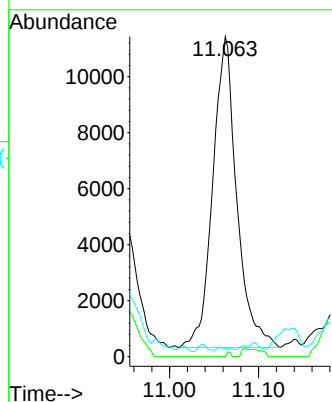
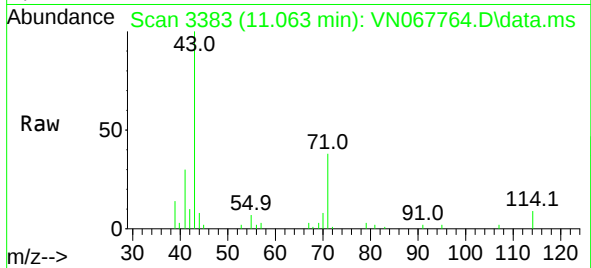




#59
2-Hexanone
Concen: 4.325 ug/l
RT: 11.063 min Scan# 3383
Delta R.T. -0.024 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

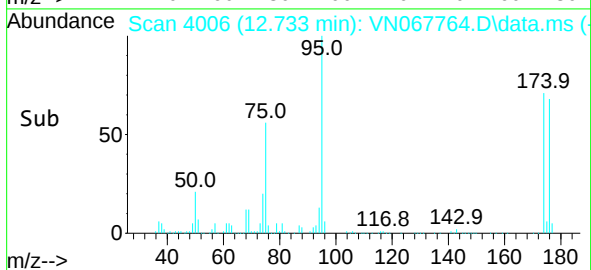
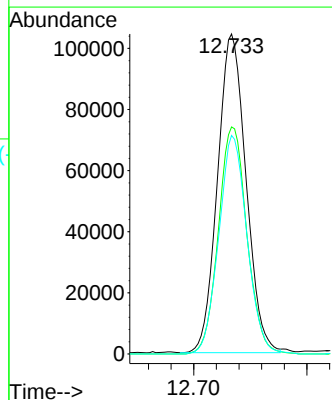
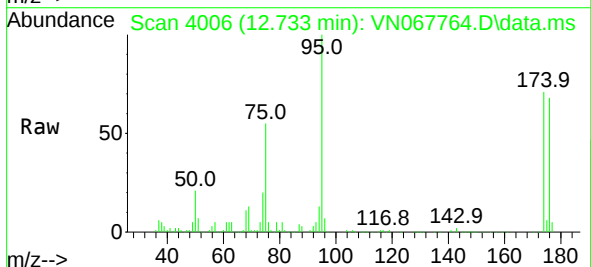
Instrument :
MSVOA_N
ClientSampled :

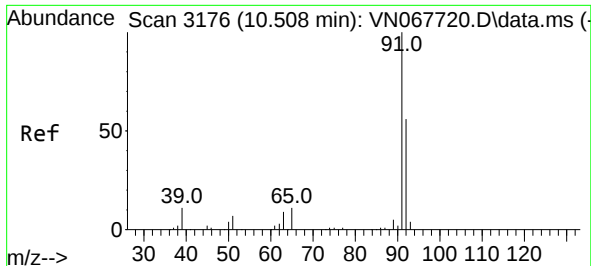
Tgt Ion: 43 Resp: 20765
Ion Ratio Lower Upper
43 100
58 0.3 41.5 62.3#
57 0.4 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 28.096 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 95 Resp: 181952
Ion Ratio Lower Upper
95 100
174 71.2 57.1 85.7
176 68.0 54.6 81.8

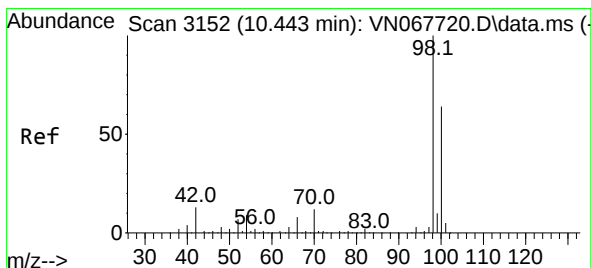
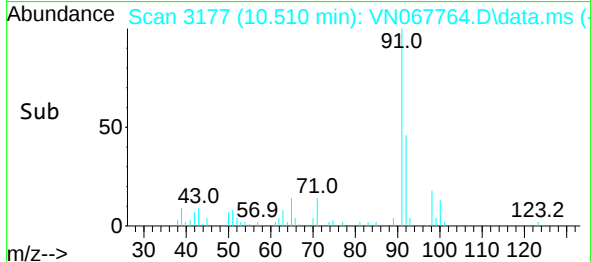
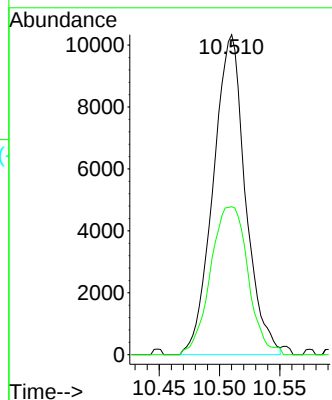
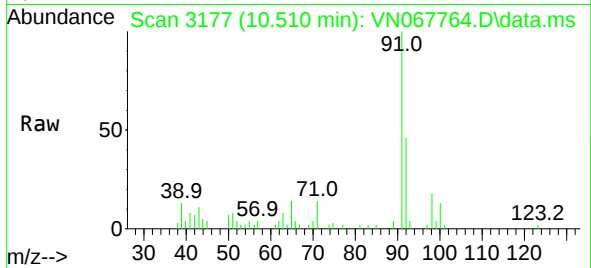




#62
Toluene
Concen: 0.818 ug/l
RT: 10.510 min Scan# 3177
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

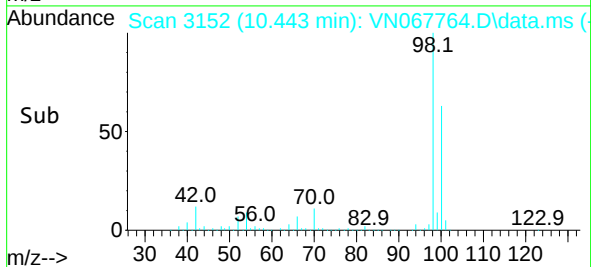
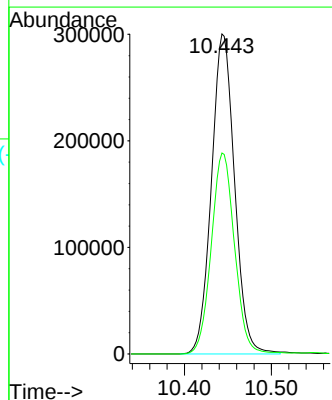
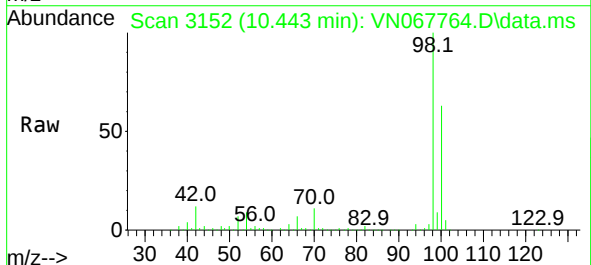
Instrument :
MSVOA_N
ClientSampled :

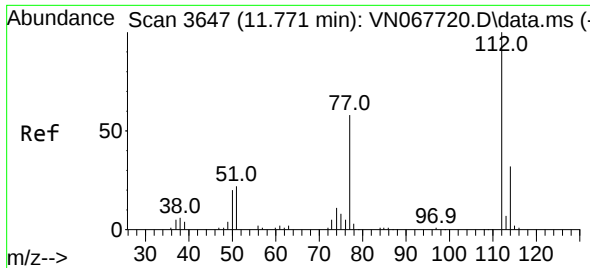
Tgt Ion: 91 Resp: 19177
Ion Ratio Lower Upper
91 100
92 53.4 44.8 67.2



#63
Toluene-d8
Concen: 30.283 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 98 Resp: 555421
Ion Ratio Lower Upper
98 100
100 62.9 51.0 76.4

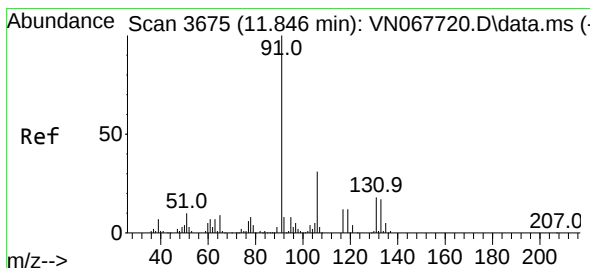
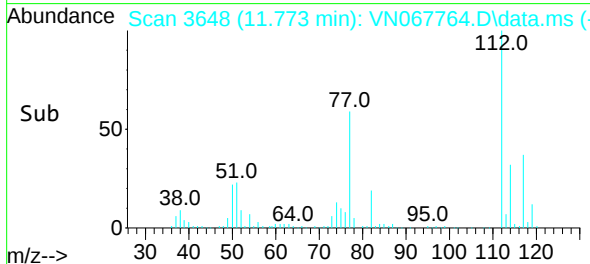
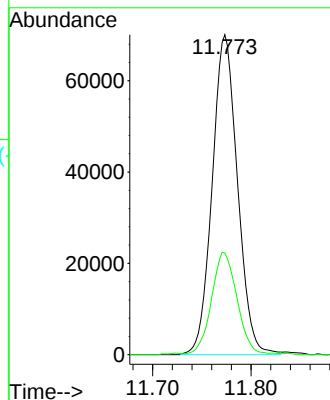
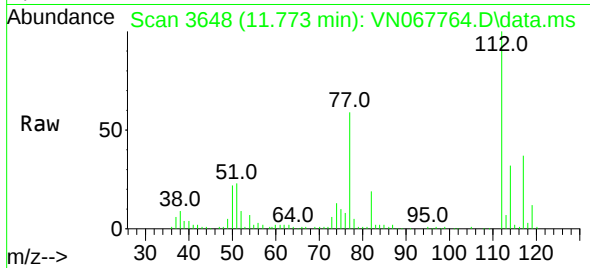




#64
Chlorobenzene
Concen: 8.910 ug/l
RT: 11.773 min Scan# 3648
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

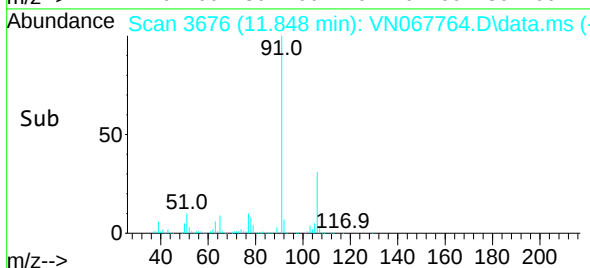
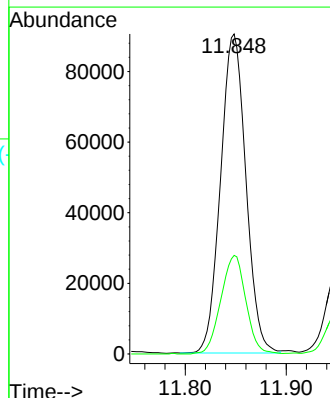
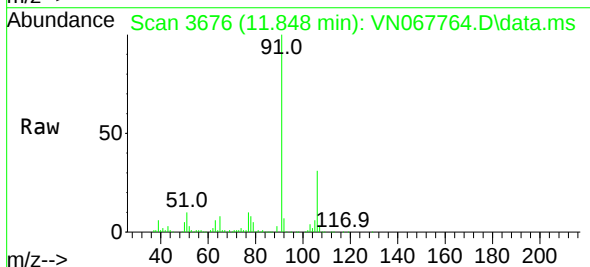
Instrument :
MSVOA_N
ClientSampled :

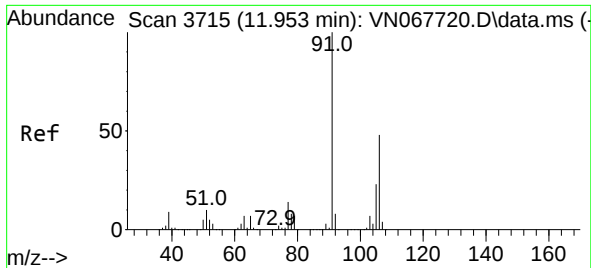
Tgt Ion:112 Resp: 125167
Ion Ratio Lower Upper
112 100
114 31.5 25.2 37.8



#66
Ethyl Benzene
Concen: 6.053 ug/l
RT: 11.848 min Scan# 3676
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 91 Resp: 157090
Ion Ratio Lower Upper
91 100
106 30.9 24.6 37.0

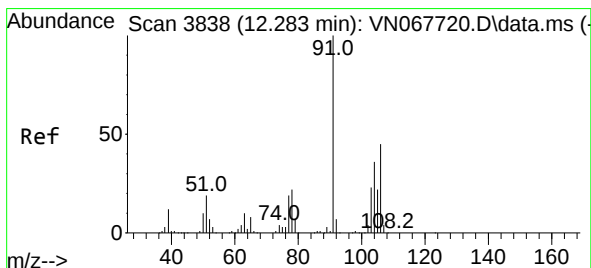
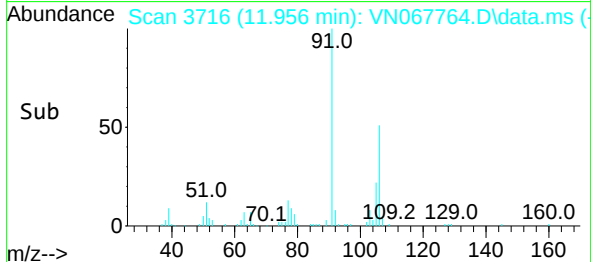
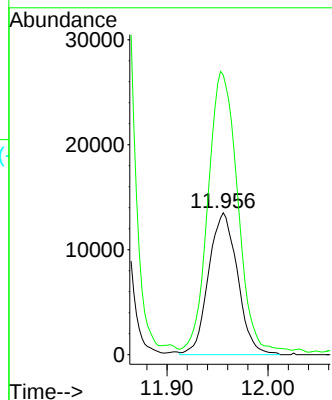
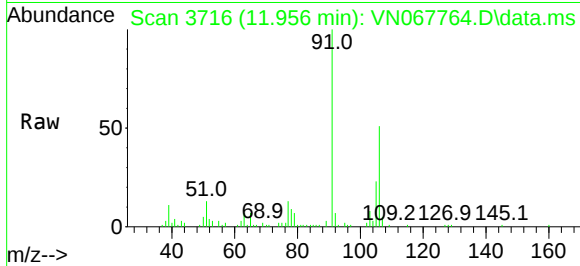




#67
m/p-Xylenes
Concen: 2.724 ug/l
RT: 11.956 min Scan# 3716
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

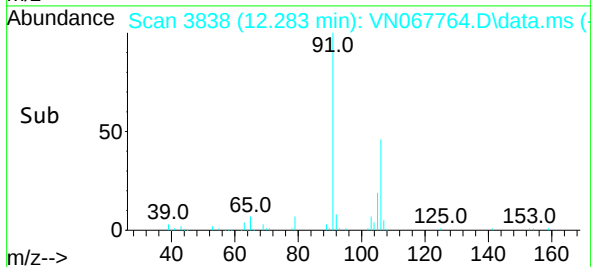
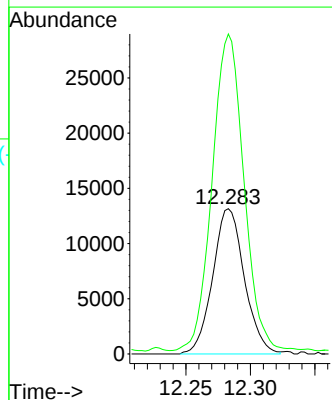
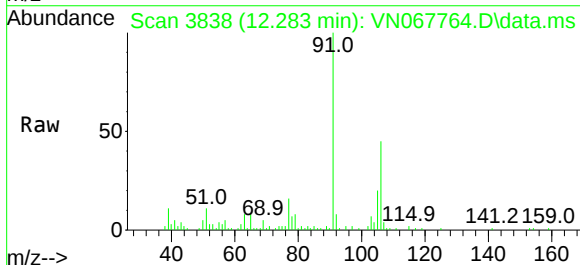
Instrument :
MSVOA_N
ClientSampleId :

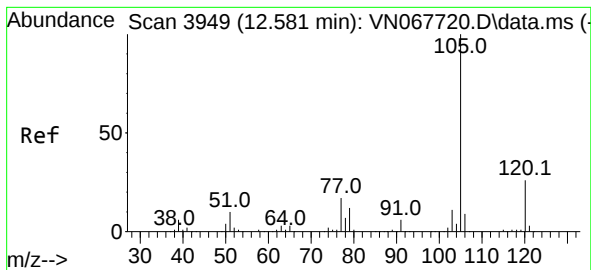
Tgt Ion:106 Resp: 26967
Ion Ratio Lower Upper
106 100
91 196.6 166.6 250.0



#68
o-Xylene
Concen: 2.298 ug/l
RT: 12.283 min Scan# 3838
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion:106 Resp: 22452
Ion Ratio Lower Upper
106 100
91 218.2 109.6 328.8





#70

Isopropylbenzene

Concen: 1.060 ug/l

RT: 12.583 min Scan# 3950

Delta R.T. 0.002 min

Lab File: VN067764.D

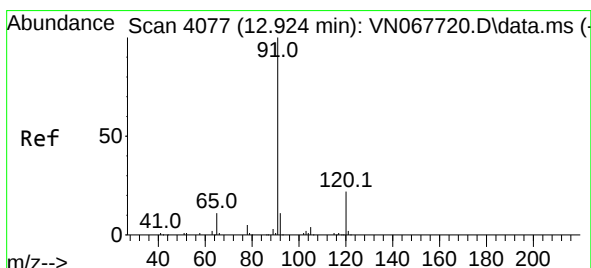
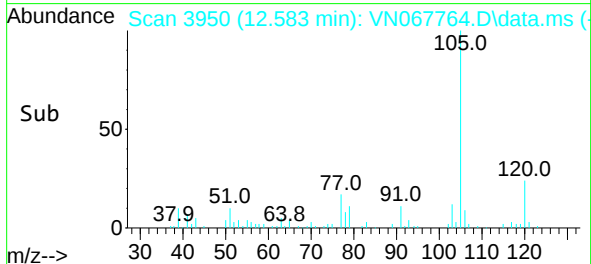
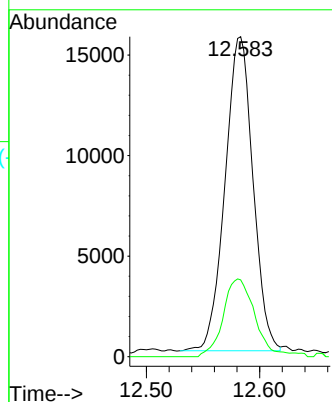
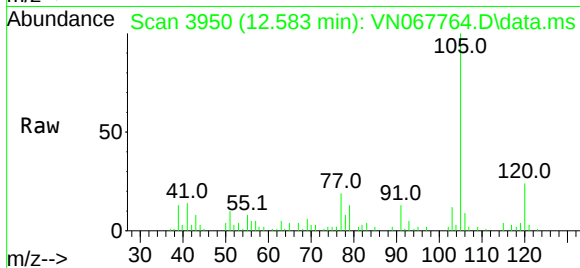
Acq: 15 Jul 2021 15:07

Tgt Ion:105 Resp: 26723

Ion Ratio Lower Upper

105 100

120 27.8 17.9 33.3



#74

n-propylbenzene

Concen: 0.915 ug/l

RT: 12.921 min Scan# 4076

Delta R.T. -0.003 min

Lab File: VN067764.D

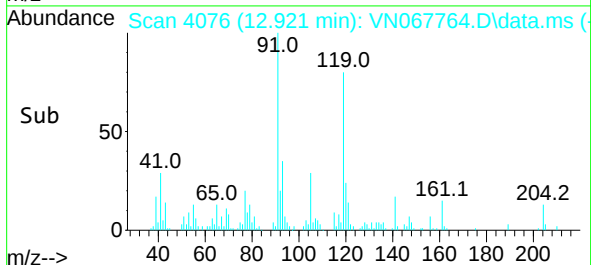
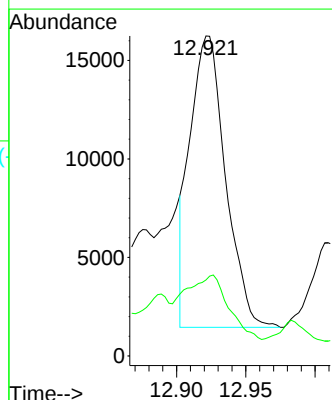
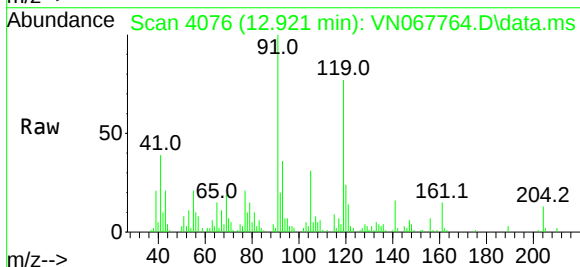
Acq: 15 Jul 2021 15:07

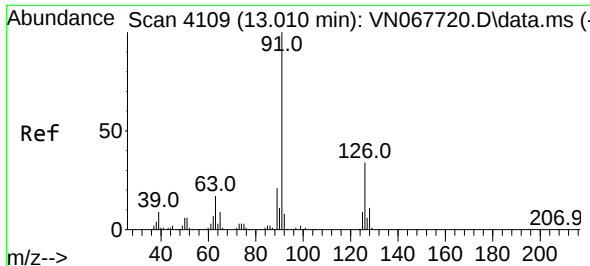
Tgt Ion: 91 Resp: 26438

Ion Ratio Lower Upper

91 100

120 1.1 0.0 44.2

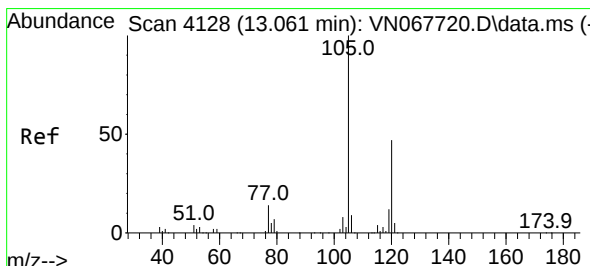
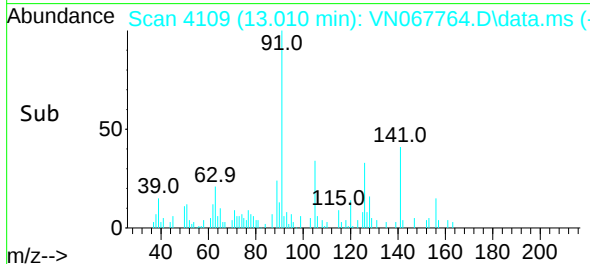
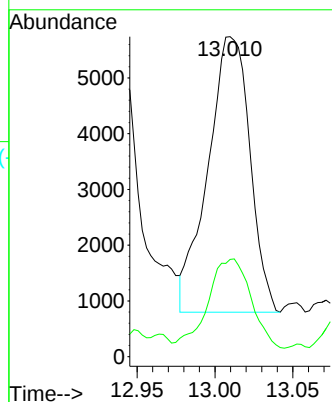
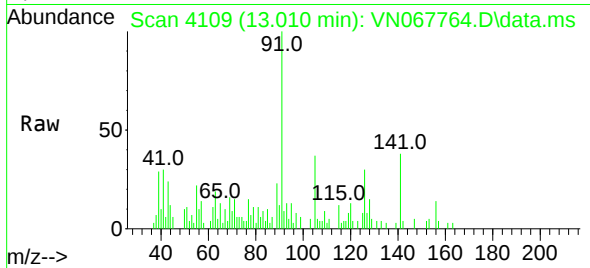




#75
2-Chlorotoluene
Concen: 0.535 ug/l
RT: 13.010 min Scan# 4109
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

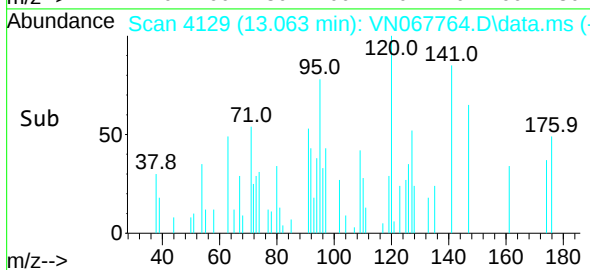
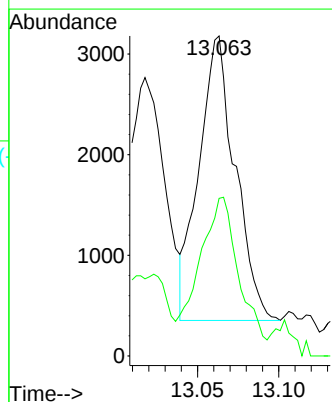
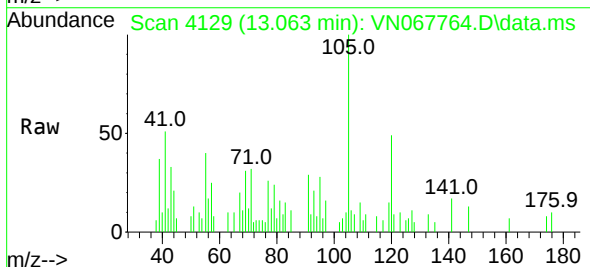
Instrument :
MSVOA_N
ClientSampled :

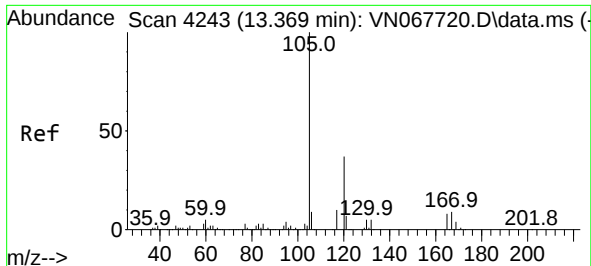
Tgt Ion: 91 Resp: 9272
Ion Ratio Lower Upper
91 100
126 33.2 0.0 66.2



#76
1,3,5-Trimethylbenzene
Concen: 0.211 ug/l
RT: 13.063 min Scan# 4129
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 105 Resp: 4383
Ion Ratio Lower Upper
105 100
120 53.1 0.0 96.2

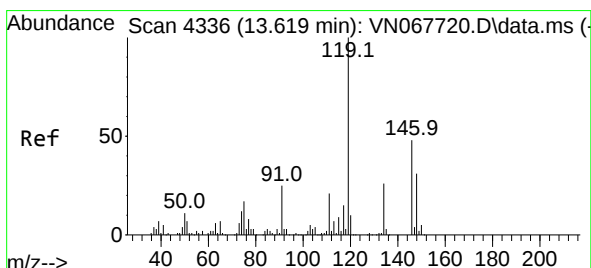
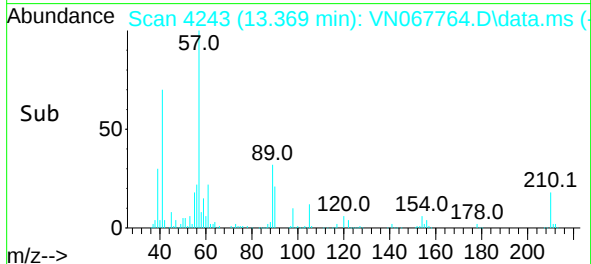
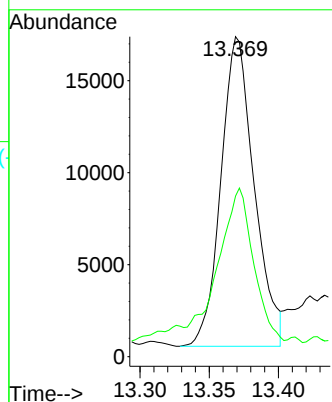
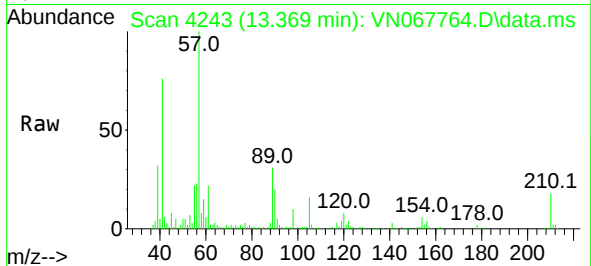




#80
1,2,4-Trimethylbenzene
Concen: 1.365 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

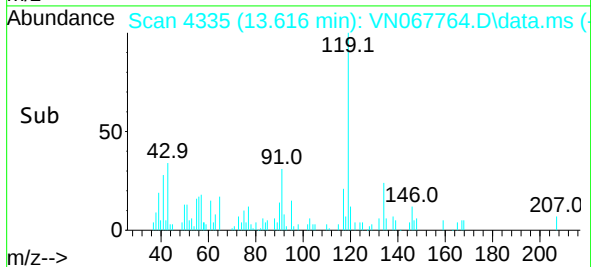
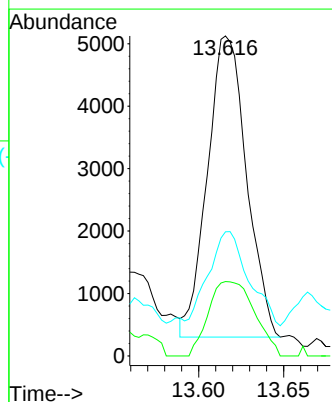
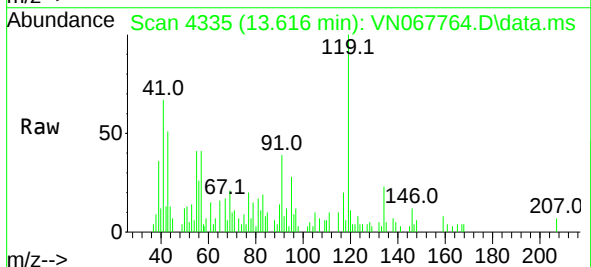
Instrument :
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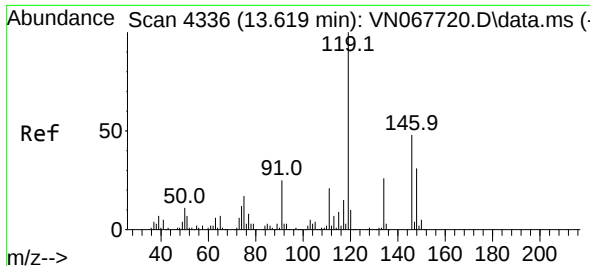
Tgt Ion:105 Resp: 28136
Ion Ratio Lower Upper
105 100
120 48.0 0.0 0.2#



#82
p-Isopropyltoluene
Concen: 0.375 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. -0.003 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion:119 Resp: 7725
Ion Ratio Lower Upper
119 100
134 29.0 0.0 51.0
91 31.9 0.0 50.6

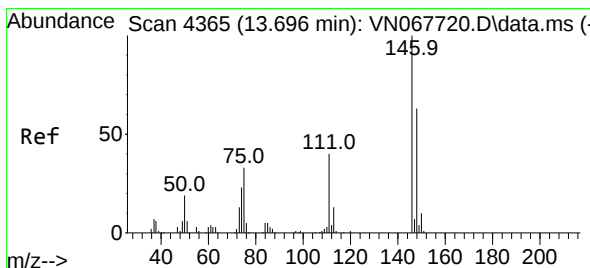
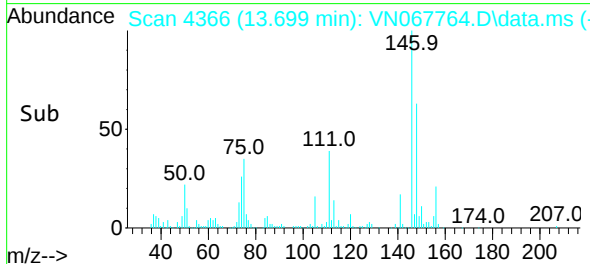
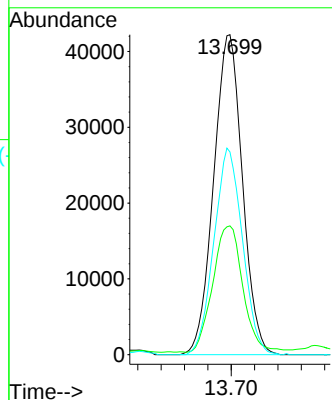
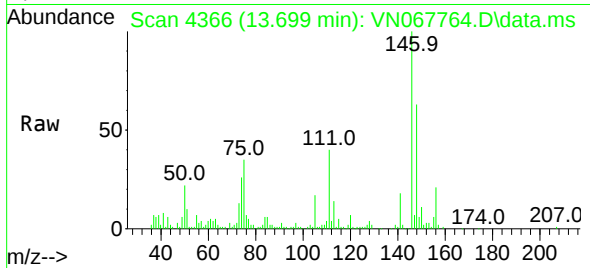




#83
1,3-Dichlorobenzene
Concen: 6.671 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. 0.080 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

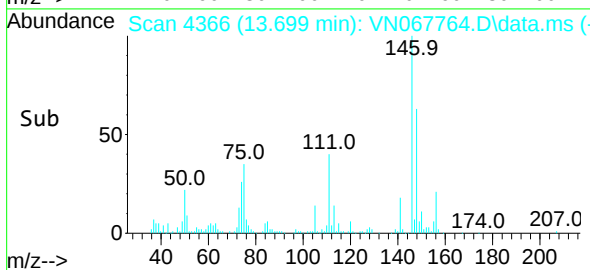
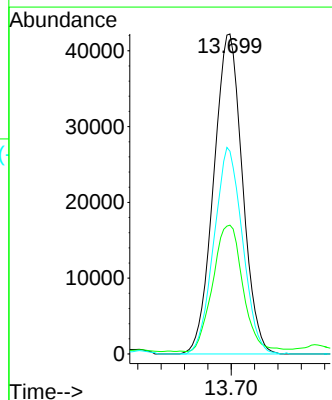
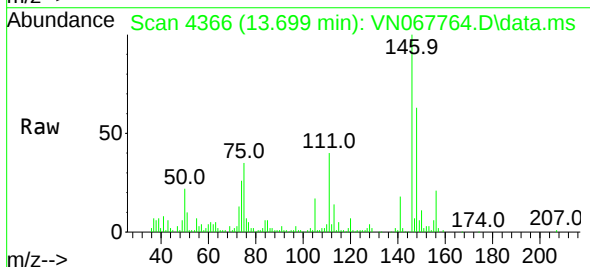
Instrument :
MSVOA_N
ClientSampleId :

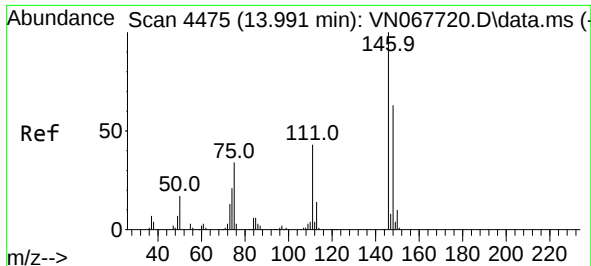
Tgt Ion:146 Resp: 72214
Ion Ratio Lower Upper
146 100
111 41.2 21.1 63.1
148 64.0 31.9 95.7



#84
1,4-Dichlorobenzene
Concen: 6.849 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion:146 Resp: 72214
Ion Ratio Lower Upper
146 100
111 41.2 20.0 59.9
148 64.0 31.8 95.3

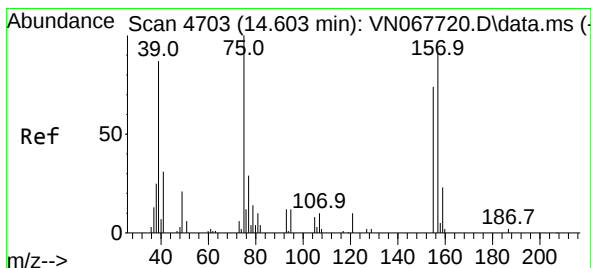
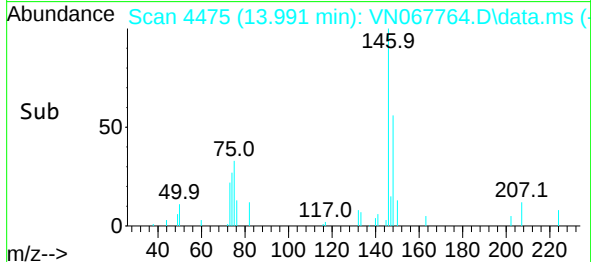
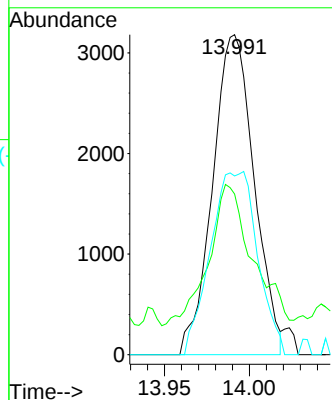
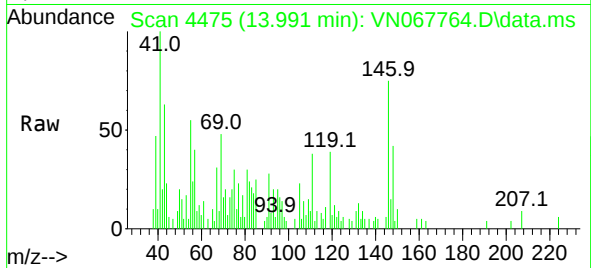




#87
1,2-Dichlorobenzene
Concen: 0.523 ug/l
RT: 13.991 min Scan# 4475
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

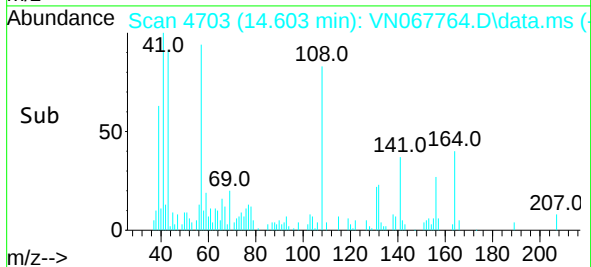
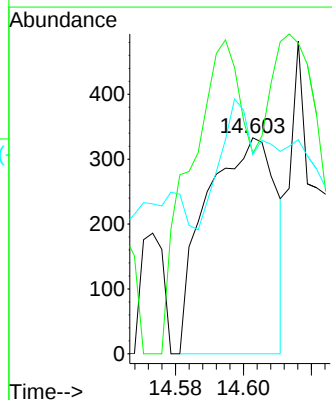
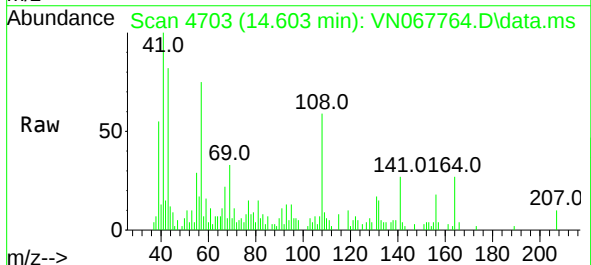
Instrument :
MSVOA_N
ClientSampled :

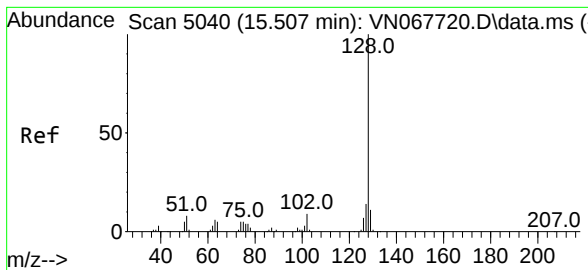
Tgt Ion:146 Resp: 5410
Ion Ratio Lower Upper
146 100
111 36.4 22.0 66.0
148 35.7 31.7 95.1



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.369 ug/l
RT: 14.603 min Scan# 4703
Delta R.T. -0.000 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Tgt Ion: 75 Resp: 473
Ion Ratio Lower Upper
75 100
155 119.2 59.2 88.8#
157 26.4 75.4 113.2#





#91
Naphthalene
Concen: 6.337 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN067764.D
Acq: 15 Jul 2021 15:07

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 84828
Ion Ratio Lower Upper
128 100
127 14.7 10.9 16.3
129 11.1 8.7 13.1

