

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062422\
 Data File : VN073080.D
 Acq On : 24 Jun 2022 13:33
 Operator : JC\MD
 Sample : N3369-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Jun 24 23:34:05 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 24 04:54:59 2022
 Response via : Initial Calibration

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

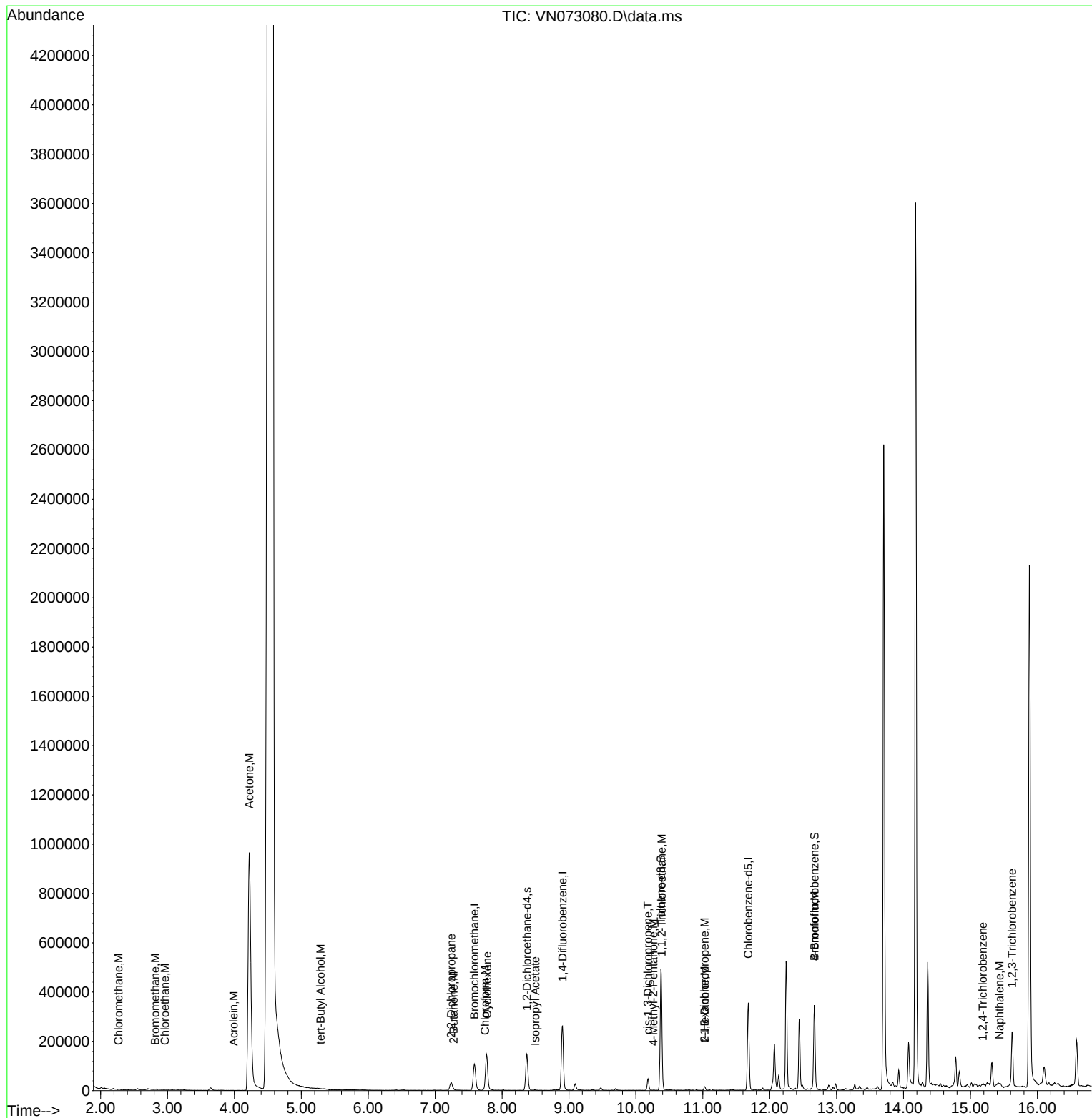
Internal Standards						
1) Bromochloromethane	7.586	128	39676	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	235525	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	205300	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.375	65	122614	32.058	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 106.867%	
60) 4-Bromofluorobenzene	12.668	95	114404	29.126	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.100%	
63) Toluene-d8	10.374	98	340024	30.585	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.933%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.269	50	796	0.268	ug/l #	40
5) Bromomethane	2.816	94	220	0.251	ug/l	98
6) Chloroethane	2.963	64	567	0.345	ug/l #	44
13) Acrolein	3.987	56	130	0.227	ug/l #	14
15) Acetone	4.222	58	539461	902.255	ug/l	90
23) tert-Butyl Alcohol	5.287	59	556	0.628	ug/l #	100
25) Chloroform	7.745	83	6499	1.141	ug/l #	82
26) Cyclohexane	7.780	56	5231	1.044	ug/l #	3
30) 2-Butanone	7.275	43	3869	1.180	ug/l #	63
31) 2,2-Dichloropropane	7.239	77	868	0.416	ug/l #	53
44) Isopropyl Acetate	8.498	43	2321	0.243	ug/l #	60
48) t-1,3-Dichloropropene	11.027	75	3490	0.800	ug/l #	43
49) cis-1,3-Dichloropropene	10.180	75	8919	1.887	ug/l #	56
50) 1,1,2-Trichloroethane	10.386	97	10625	3.163	ug/l #	1
56) Bromoform	12.668	173	847	0.331	ug/l #	1
58) 4-Methyl-2-Pentanone	10.263	43	1367	0.229	ug/l #	51
59) 2-Hexanone	11.027	43	4388	0.962	ug/l #	1
89) 1,2,4-Trichlorobenzene	15.186	180	1160	0.353	ug/l #	81
91) Naphthalene	15.433	128	7243	0.565	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.621	180	1217	0.364	ug/l	47

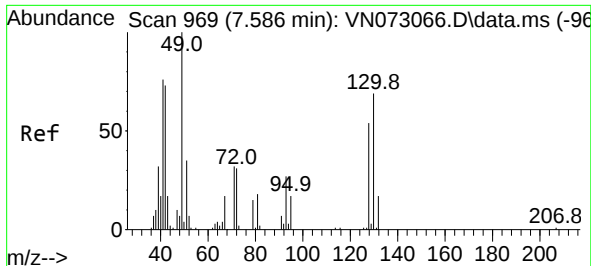
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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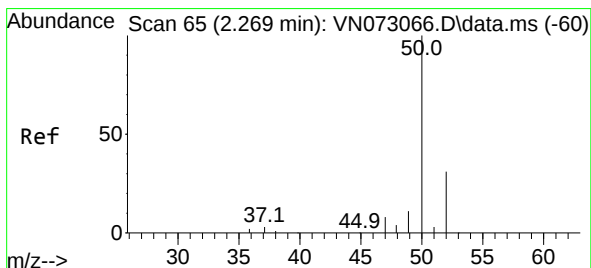
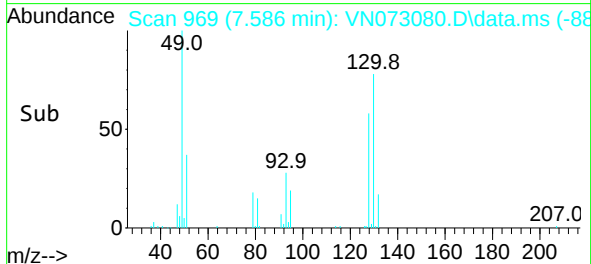
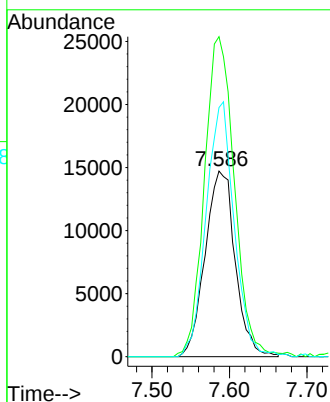
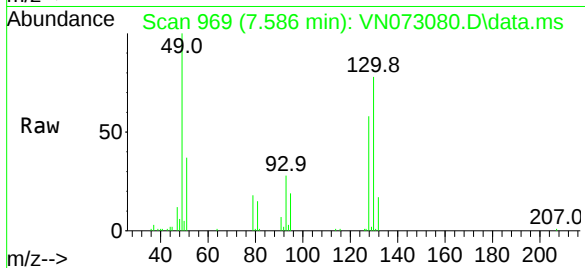




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.586 min Scan# 969
Delta R.T. 0.000 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

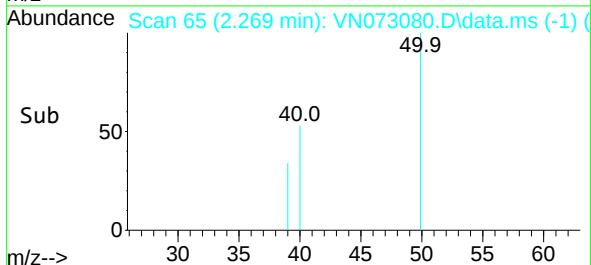
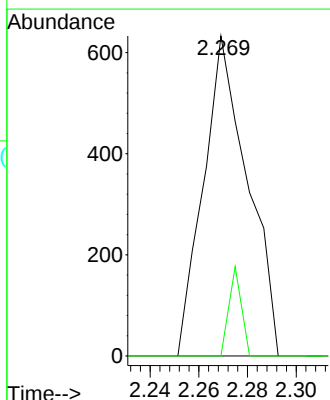
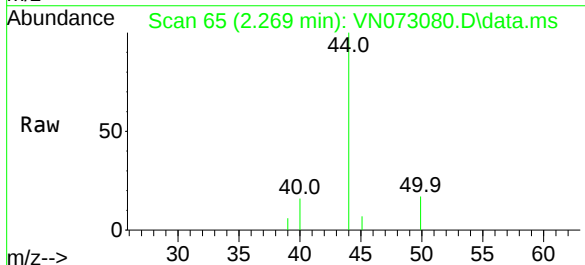
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

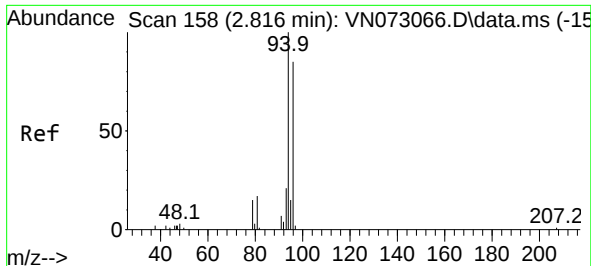
Tgt Ion:128 Resp: 39676
Ion Ratio Lower Upper
128 100
49 171.4 0.0 392.3
130 127.7 0.0 320.2



#3
Chloromethane
Concen: 0.268 ug/l
RT: 2.269 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion: 50 Resp: 796
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.6#

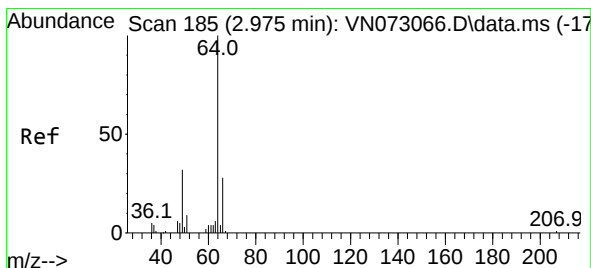
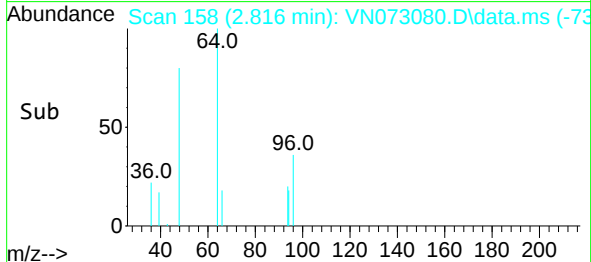
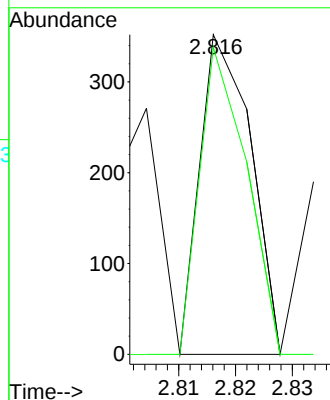
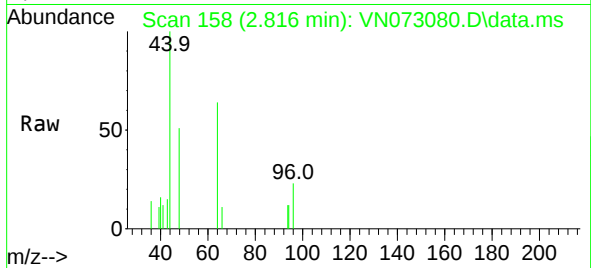




#5
Bromomethane
Concen: 0.251 ug/l
RT: 2.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

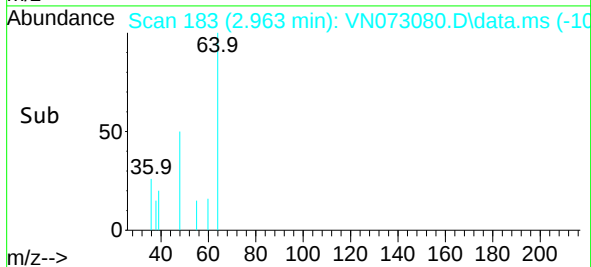
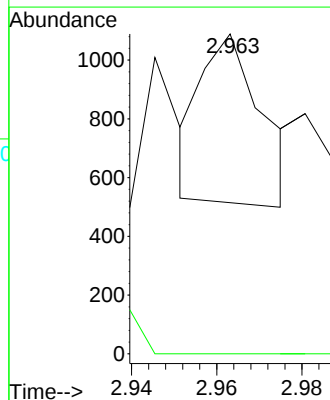
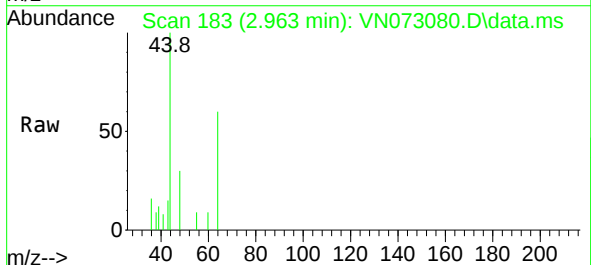
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

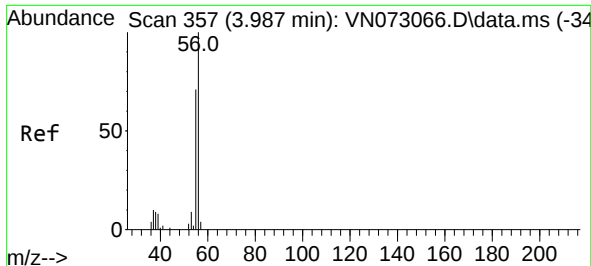
Tgt Ion: 94 Resp: 220
Ion Ratio Lower Upper
94 100
96 96.0 75.2 112.8



#6
Chloroethane
Concen: 0.345 ug/l
RT: 2.963 min Scan# 183
Delta R.T. -0.012 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion: 64 Resp: 567
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#





#13

Acrolein

Concen: 0.227 ug/l

RT: 3.987 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN073080.D

Acq: 24 Jun 2022 13:33

Instrument :

MSVOA_N

ClientSampleId :

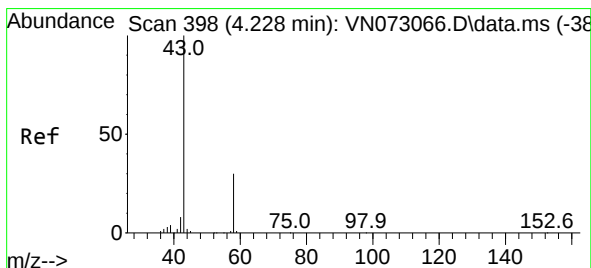
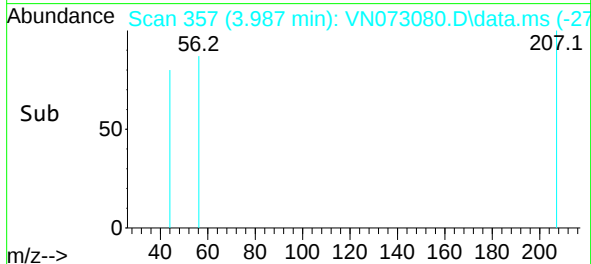
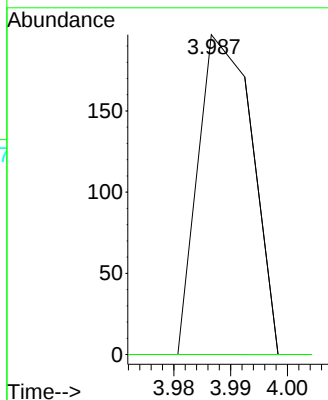
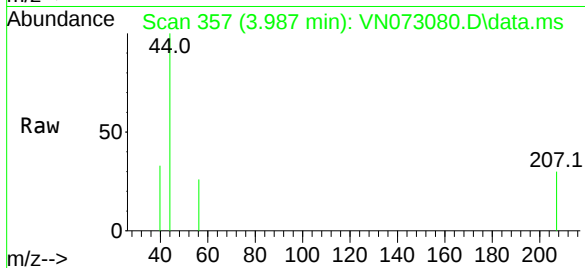
EFF-WW

Tgt Ion: 56 Resp: 130

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



#15

Acetone

Concen: 902.255 ug/l

RT: 4.222 min Scan# 397

Delta R.T. -0.006 min

Lab File: VN073080.D

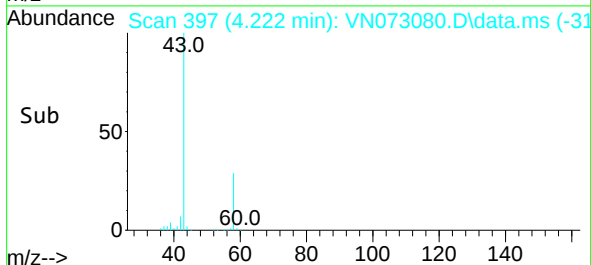
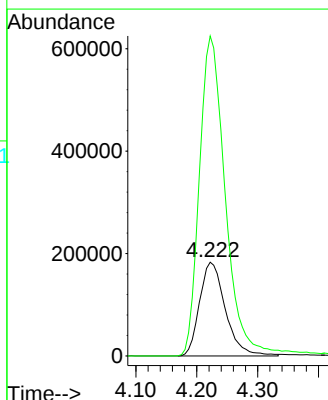
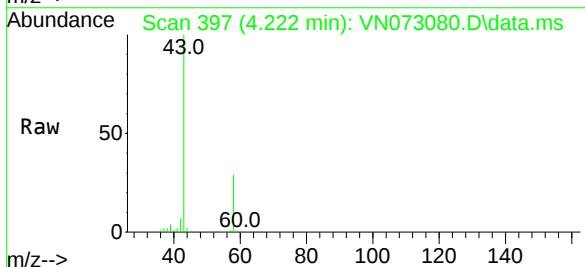
Acq: 24 Jun 2022 13:33

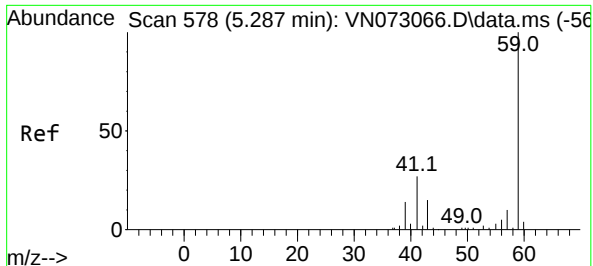
Tgt Ion: 58 Resp: 539461

Ion Ratio Lower Upper

58 100

43 340.9 256.6 384.8

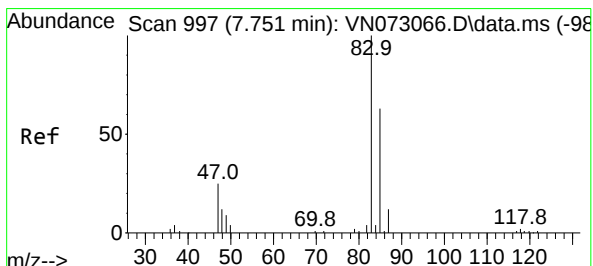
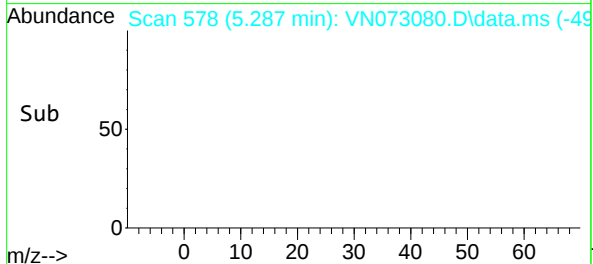
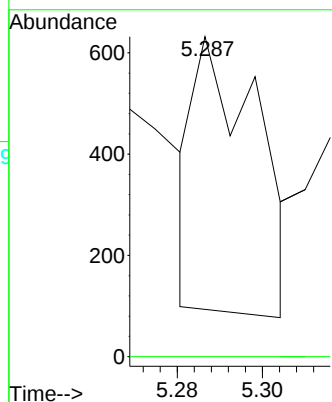
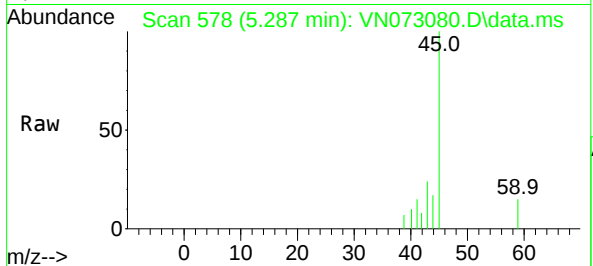




#23
tert-Butyl Alcohol
Concen: 0.628 ug/l
RT: 5.287 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

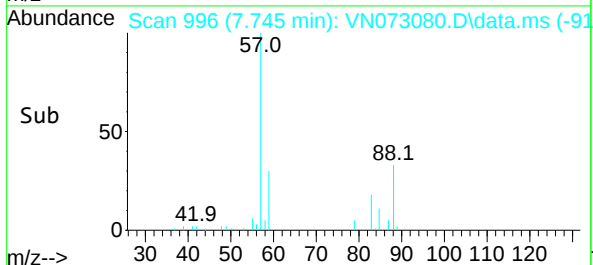
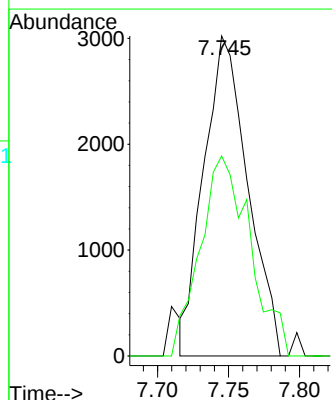
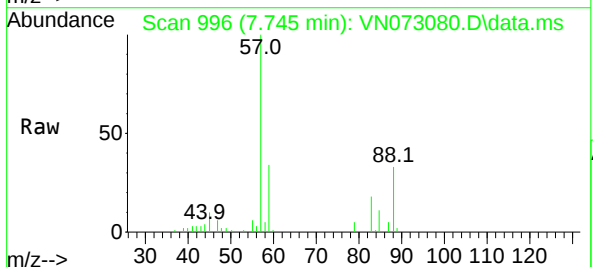
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

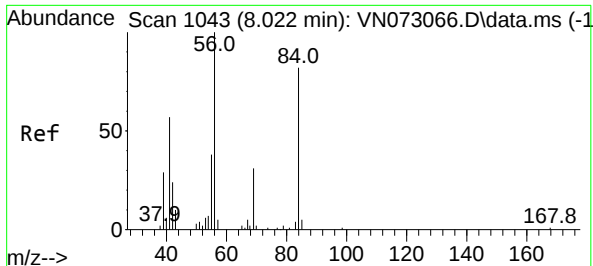
Tgt Ion: 59 Resp: 556
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.141 ug/l
RT: 7.745 min Scan# 996
Delta R.T. -0.006 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion: 83 Resp: 6499
Ion Ratio Lower Upper
83 100
85 50.0 51.3 76.9#

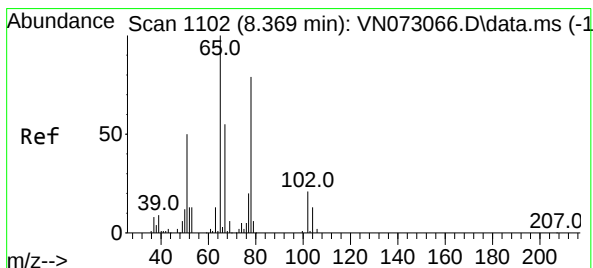
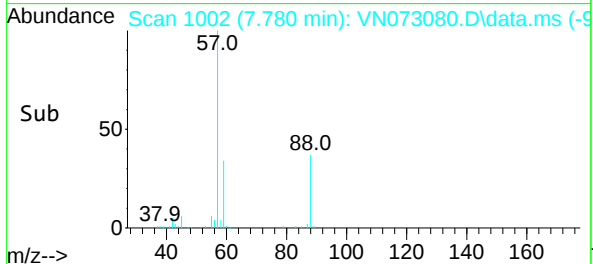
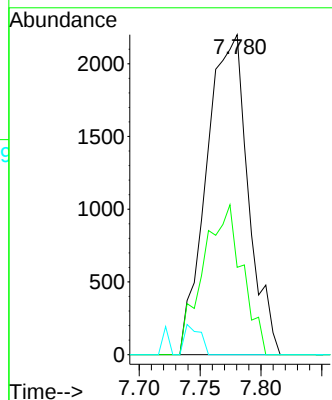
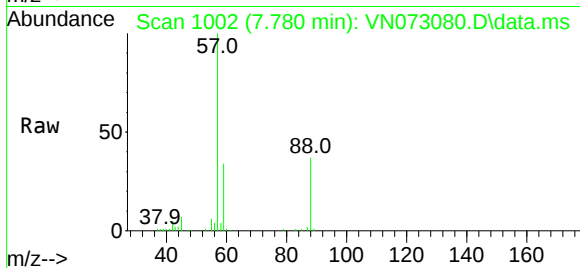




#26
Cyclohexane
Concen: 1.044 ug/l
RT: 7.780 min Scan# 1043
Delta R.T. -0.241 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

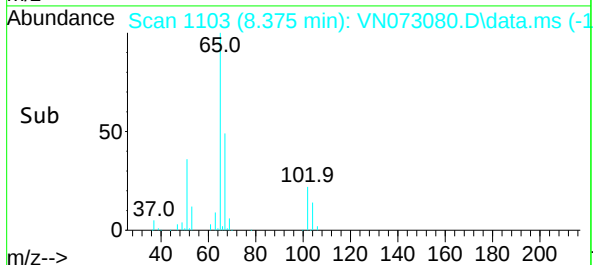
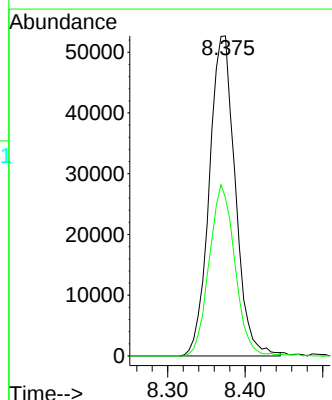
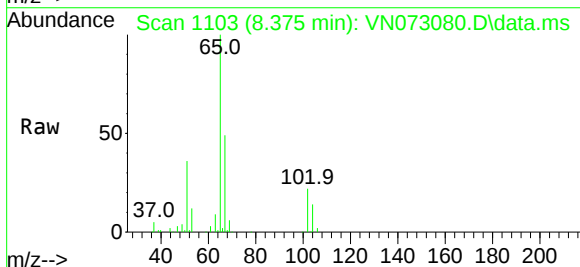
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

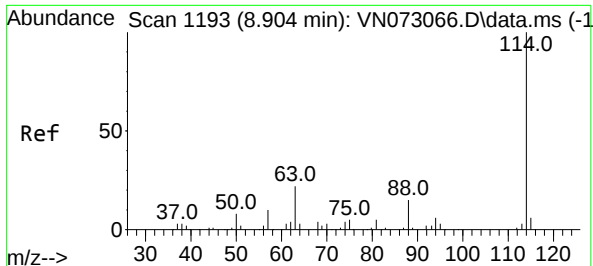
Tgt Ion: 56 Resp: 5231
Ion Ratio Lower Upper
56 100
89 24.5 0.1 0.1#
84 0.0 74.6 111.8#



#27
1,2-Dichloroethane-d4
Concen: 32.058 ug/l
RT: 8.375 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion: 65 Resp: 122614
Ion Ratio Lower Upper
65 100
67 52.4 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN073080.D

Acq: 24 Jun 2022 13:33

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

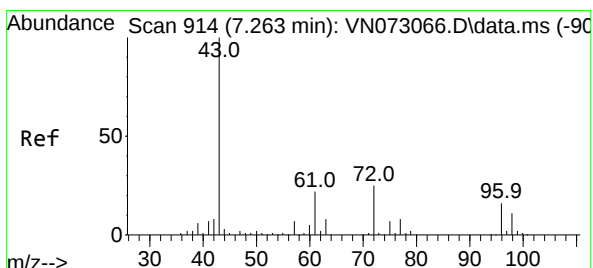
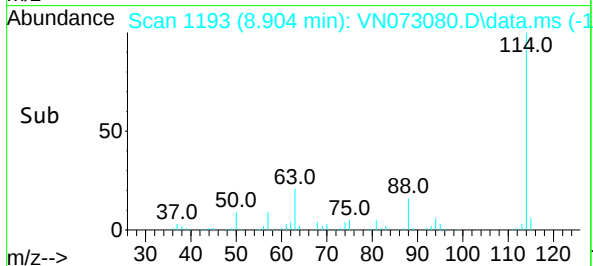
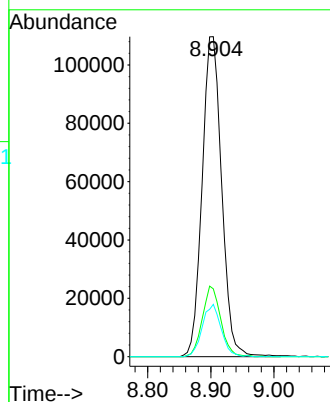
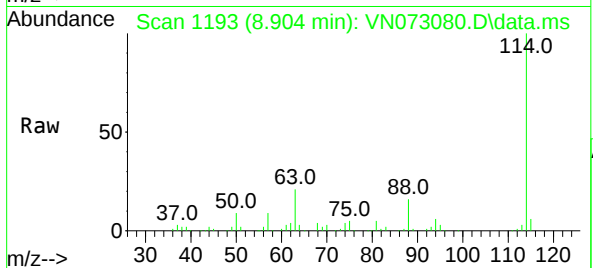
Tgt Ion:114 Resp: 235525

Ion Ratio Lower Upper

114 100

63 20.6 15.8 23.6

88 15.8 11.6 17.4



#30

2-Butanone

Concen: 1.180 ug/l

RT: 7.275 min Scan# 916

Delta R.T. 0.012 min

Lab File: VN073080.D

Acq: 24 Jun 2022 13:33

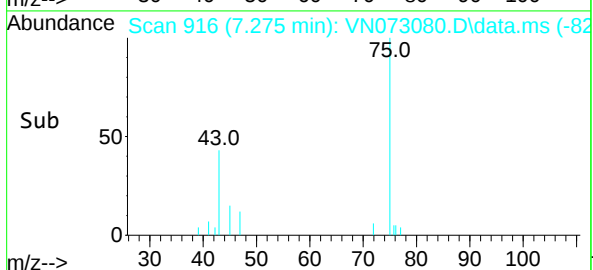
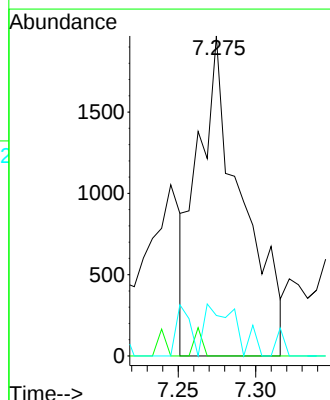
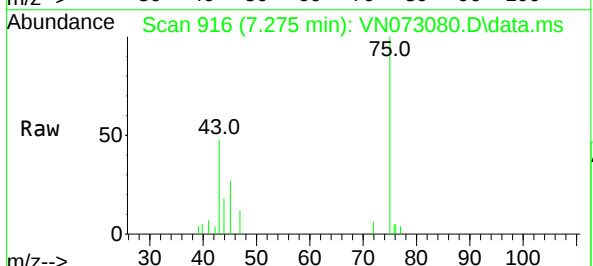
Tgt Ion: 43 Resp: 3869

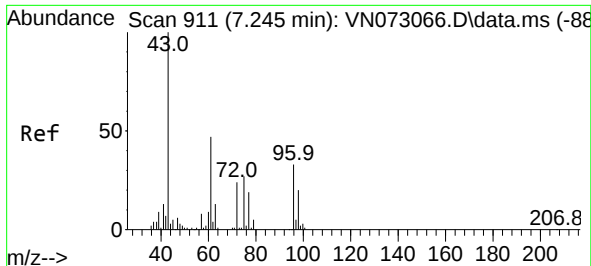
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 7.3 23.2 34.8#





#31

2,2-Dichloropropane

Concen: 0.416 ug/l

RT: 7.239 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN073080.D

Acq: 24 Jun 2022 13:33

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MSVOA_N

ClientSampleId :

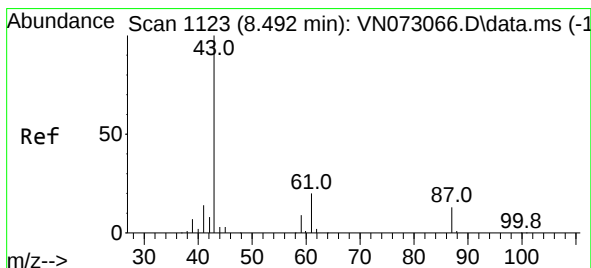
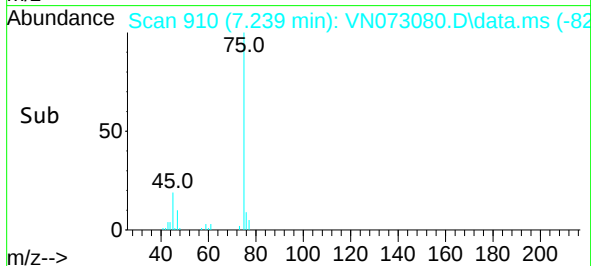
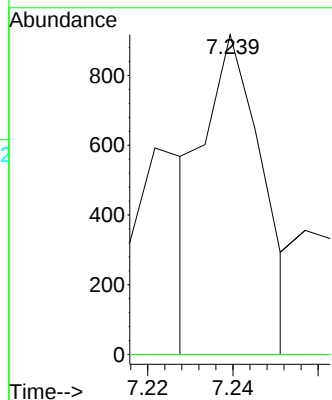
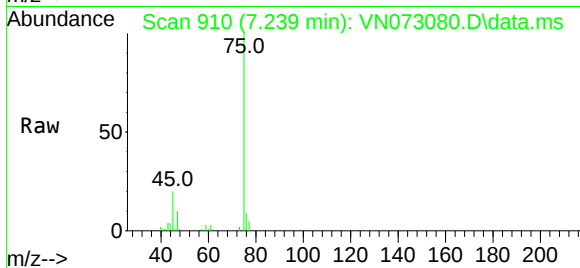
EFF-WW

Tgt Ion: 77 Resp: 868

Ion Ratio Lower Upper

77 100

97 0.0 18.3 27.5#



#44

Isopropyl Acetate

Concen: 0.243 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073080.D

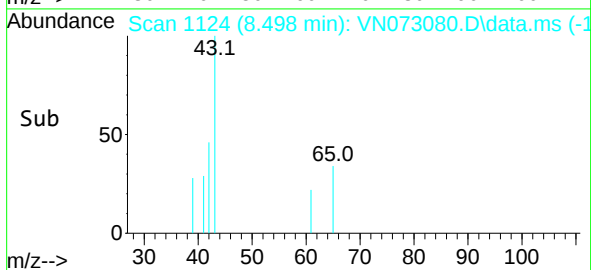
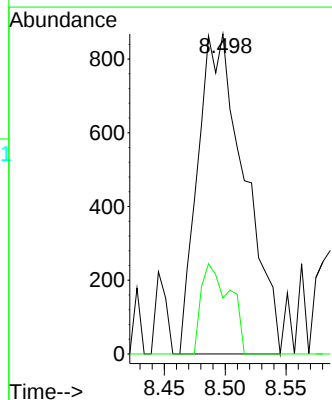
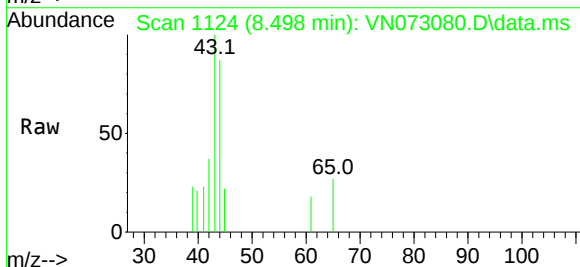
Acq: 24 Jun 2022 13:33

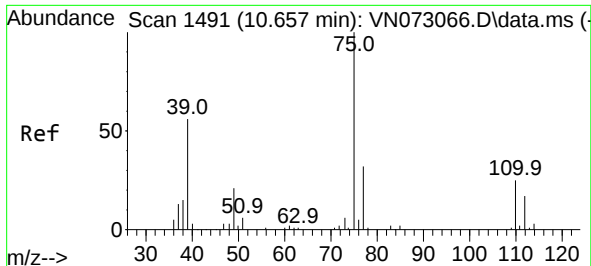
Tgt Ion: 43 Resp: 2321

Ion Ratio Lower Upper

43 100

61 5.1 20.1 30.1#

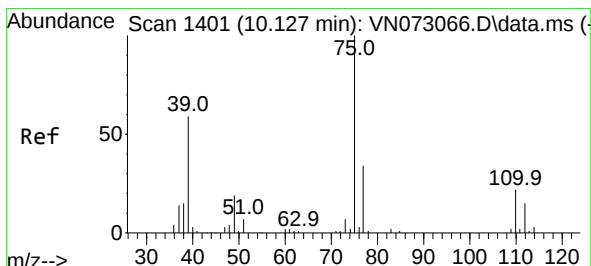
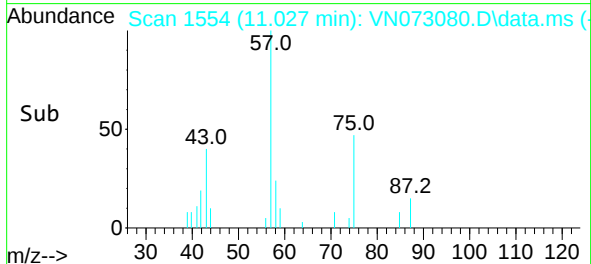
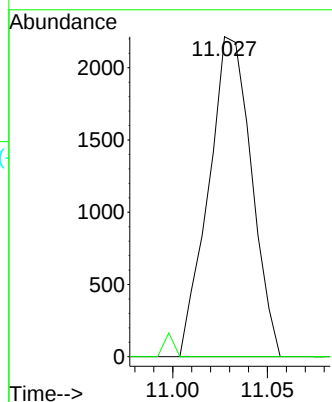
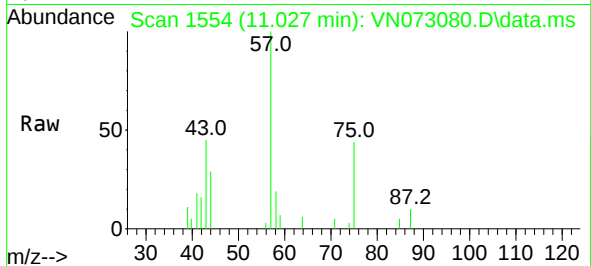




#48
t-1,3-Dichloropropene
Concen: 0.800 ug/l
RT: 11.027 min Scan# 1154
Delta R.T. 0.370 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

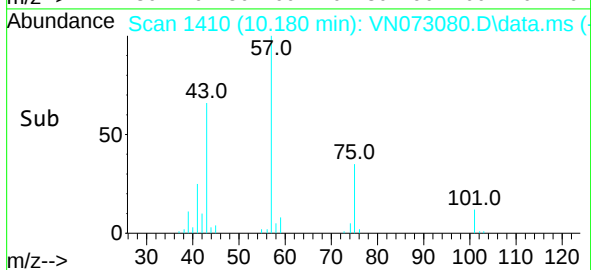
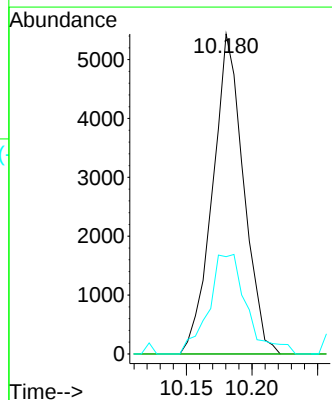
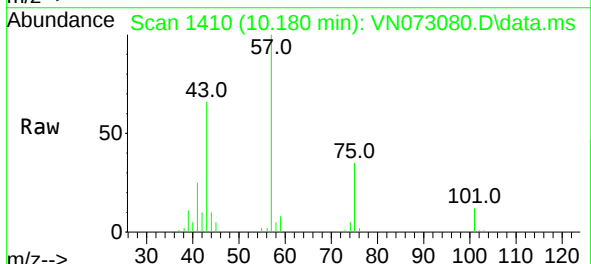
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

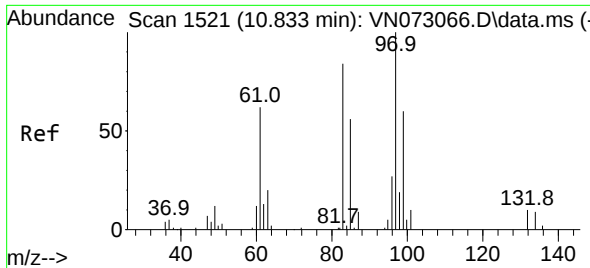
Tgt Ion: 75 Resp: 3490
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#



#49
cis-1,3-Dichloropropene
Concen: 1.887 ug/l
RT: 10.180 min Scan# 1410
Delta R.T. 0.053 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion: 75 Resp: 8919
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 30.4 46.2 69.4#

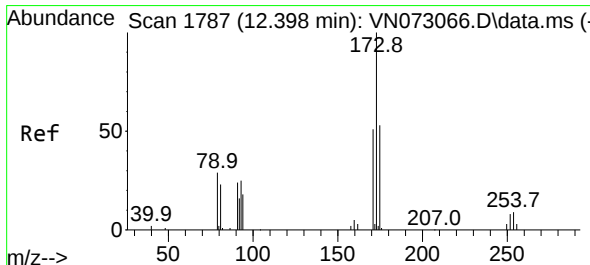
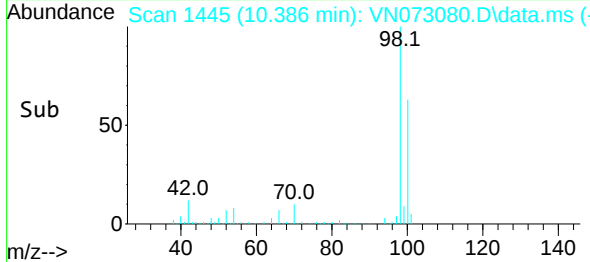
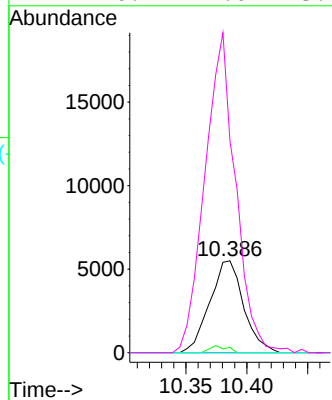
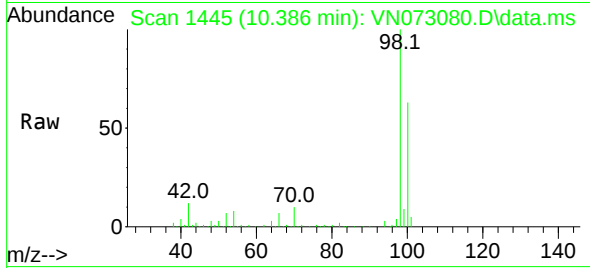




#50
1,1,2-Trichloroethane
Concen: 3.163 ug/l
RT: 10.386 min Scan# 1445
Delta R.T. -0.447 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

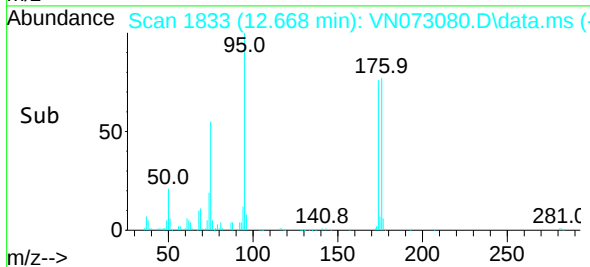
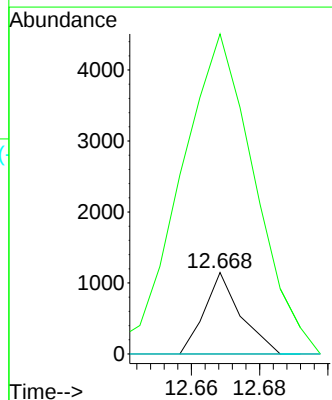
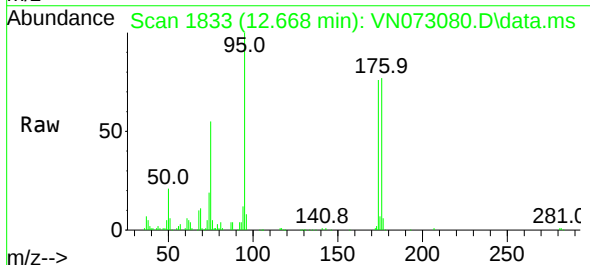
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

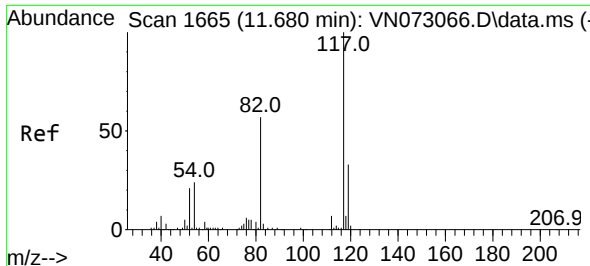
Tgt Ion: 97 Resp: 10625
Ion Ratio Lower Upper
97 100
83 5.8 67.2 100.8#
85 0.0 43.0 64.4#
99 226.4 49.0 73.4#



#56
Bromoform
Concen: 0.331 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.270 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion: 173 Resp: 847
Ion Ratio Lower Upper
173 100
175 807.4 38.6 58.0#
254 0.0 0.0 0.0

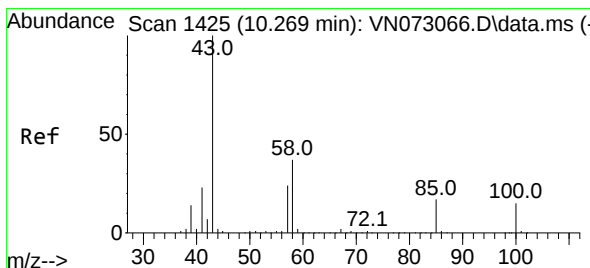
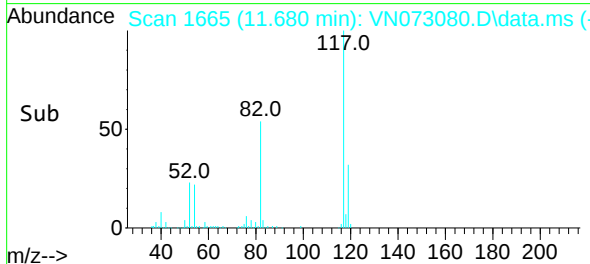
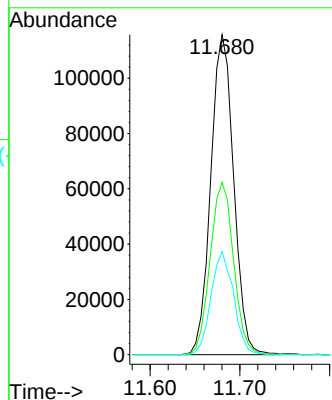
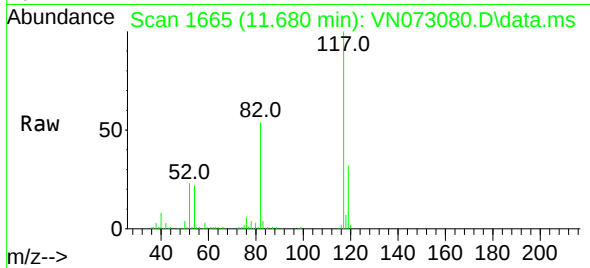




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.680 min Scan# 1165
Delta R.T. -0.000 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

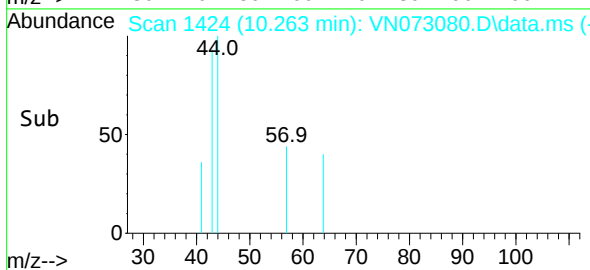
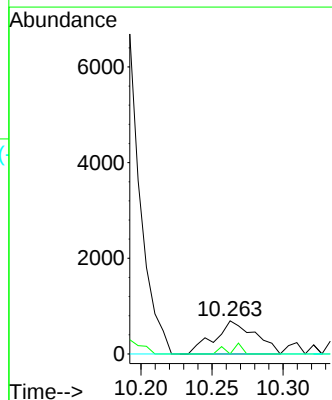
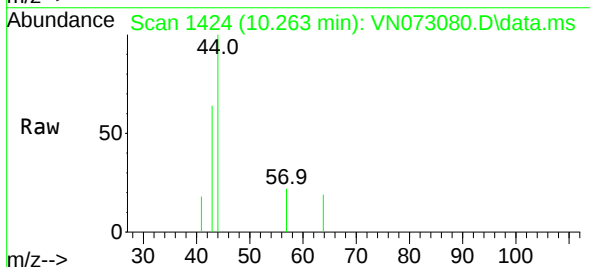
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

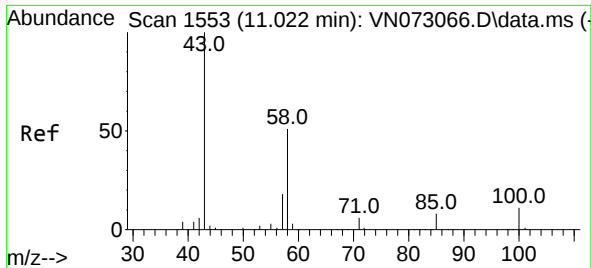
Tgt Ion:117 Resp: 205300
Ion Ratio Lower Upper
117 100
82 55.1 43.6 65.4
119 31.7 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.229 ug/l
RT: 10.263 min Scan# 1424
Delta R.T. -0.006 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion: 43 Resp: 1367
Ion Ratio Lower Upper
43 100
58 5.9 30.0 45.0#
85 0.0 15.0 22.6#

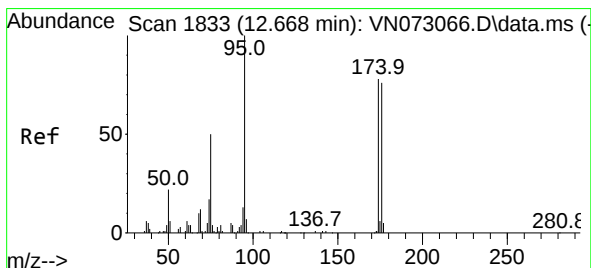
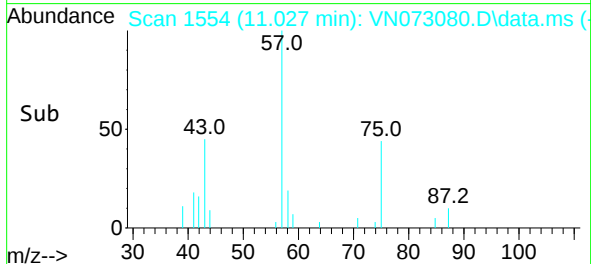
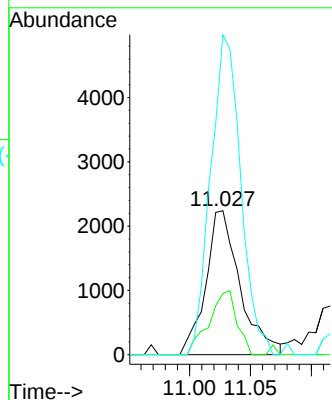
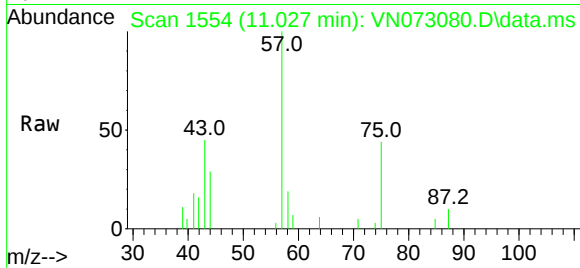




#59
2-Hexanone
Concen: 0.962 ug/l
RT: 11.027 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

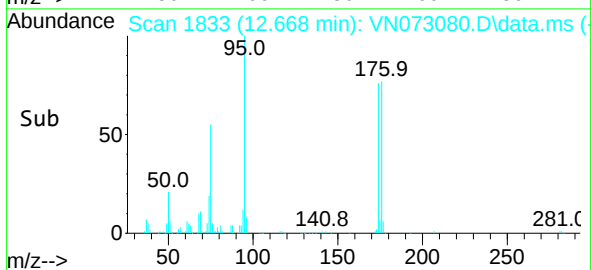
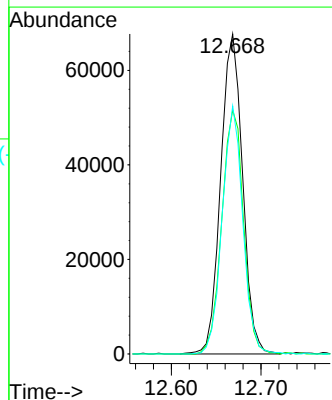
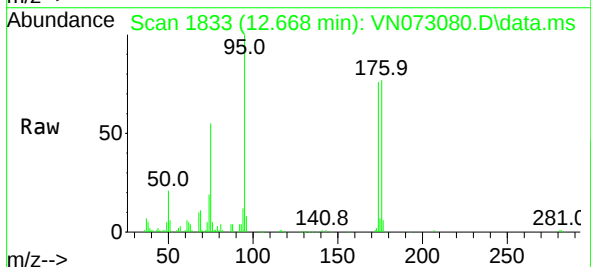
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

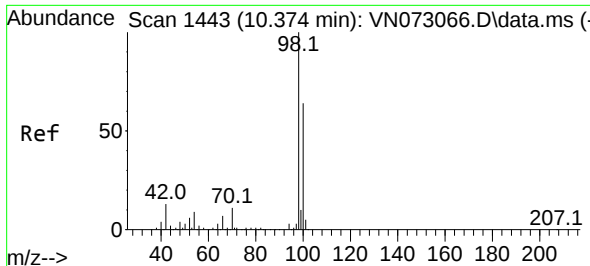
Tgt Ion: 43 Resp: 4388
Ion Ratio Lower Upper
43 100
58 36.1 42.2 63.2#
57 195.5 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 29.126 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion: 95 Resp: 114404
Ion Ratio Lower Upper
95 100
174 75.7 62.9 94.3
176 73.1 61.0 91.4

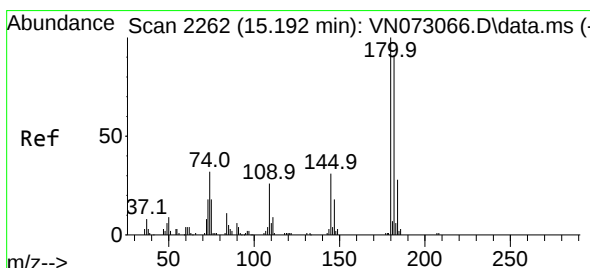
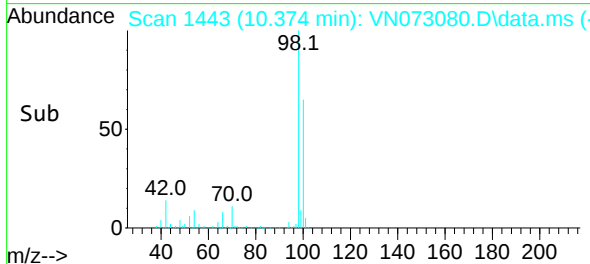
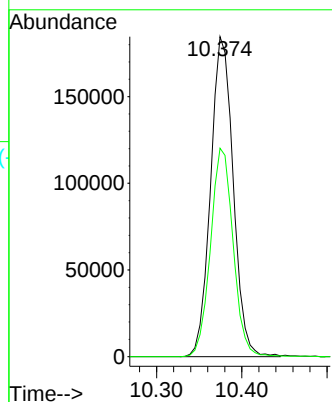
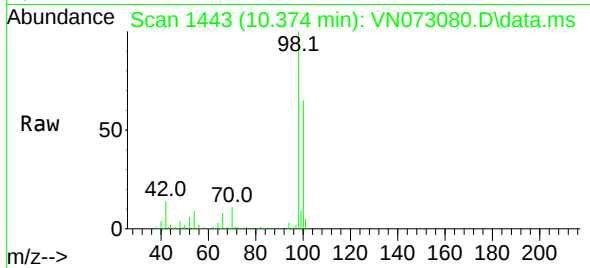




#63
Toluene-d8
Concen: 30.585 ug/l
RT: 10.374 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

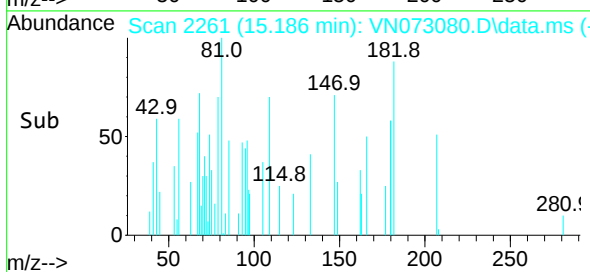
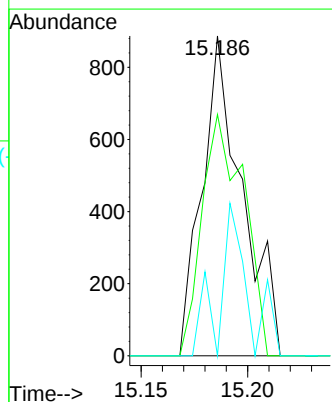
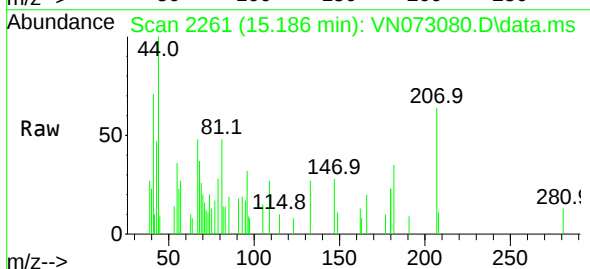
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

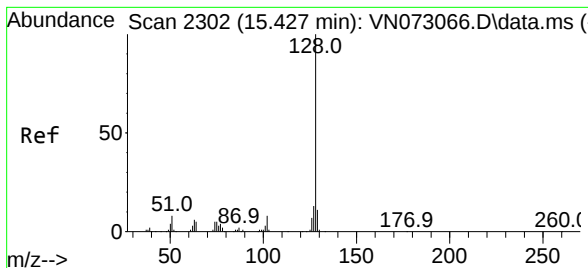
Tgt Ion: 98 Resp: 340024
Ion Ratio Lower Upper
98 100
100 65.3 50.6 76.0



#89
1,2,4-Trichlorobenzene
Concen: 0.353 ug/l
RT: 15.186 min Scan# 2261
Delta R.T. -0.006 min
Lab File: VN073080.D
Acq: 24 Jun 2022 13:33

Tgt Ion:180 Resp: 1160
Ion Ratio Lower Upper
180 100
182 78.9 77.7 116.5
145 20.9 26.6 39.8#





#91

Naphthalene

Concen: 0.565 ug/l

RT: 15.433 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN073080.D

Acq: 24 Jun 2022 13:33

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

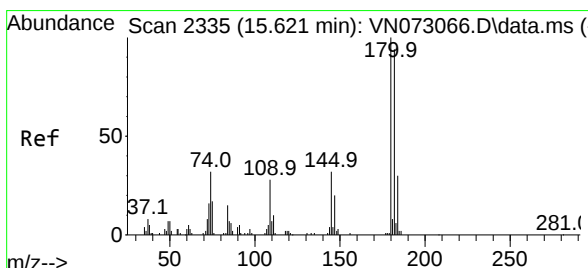
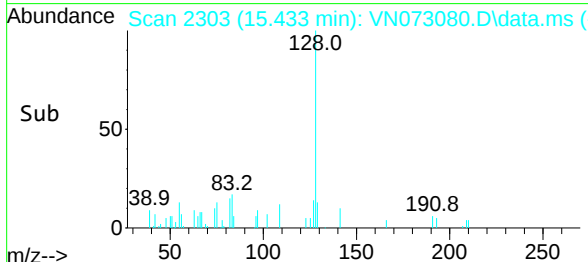
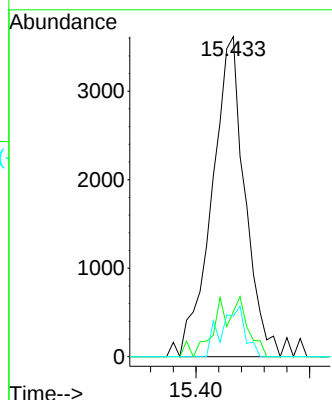
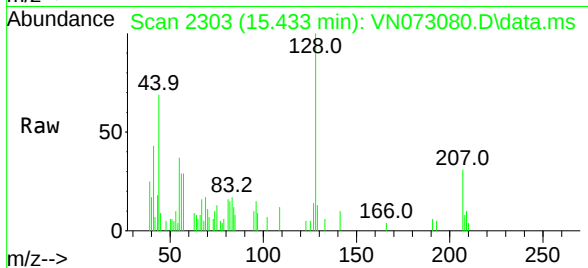
Tgt Ion:128 Resp: 7243

Ion Ratio Lower Upper

128 100

127 9.2 10.7 16.1#

129 11.7 9.0 13.6



#92

1,2,3-Trichlorobenzene

Concen: 0.364 ug/l

RT: 15.621 min Scan# 2335

Delta R.T. -0.000 min

Lab File: VN073080.D

Acq: 24 Jun 2022 13:33

Tgt Ion:180 Resp: 1217

Ion Ratio Lower Upper

180 100

182 154.6 0.0 190.0

145 18.0 0.0 67.8

