

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021951.D
 Acq On : 13 May 2021 01:28
 Operator : JC/MD
 Sample : M2340-02 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: May 13 06:29:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

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

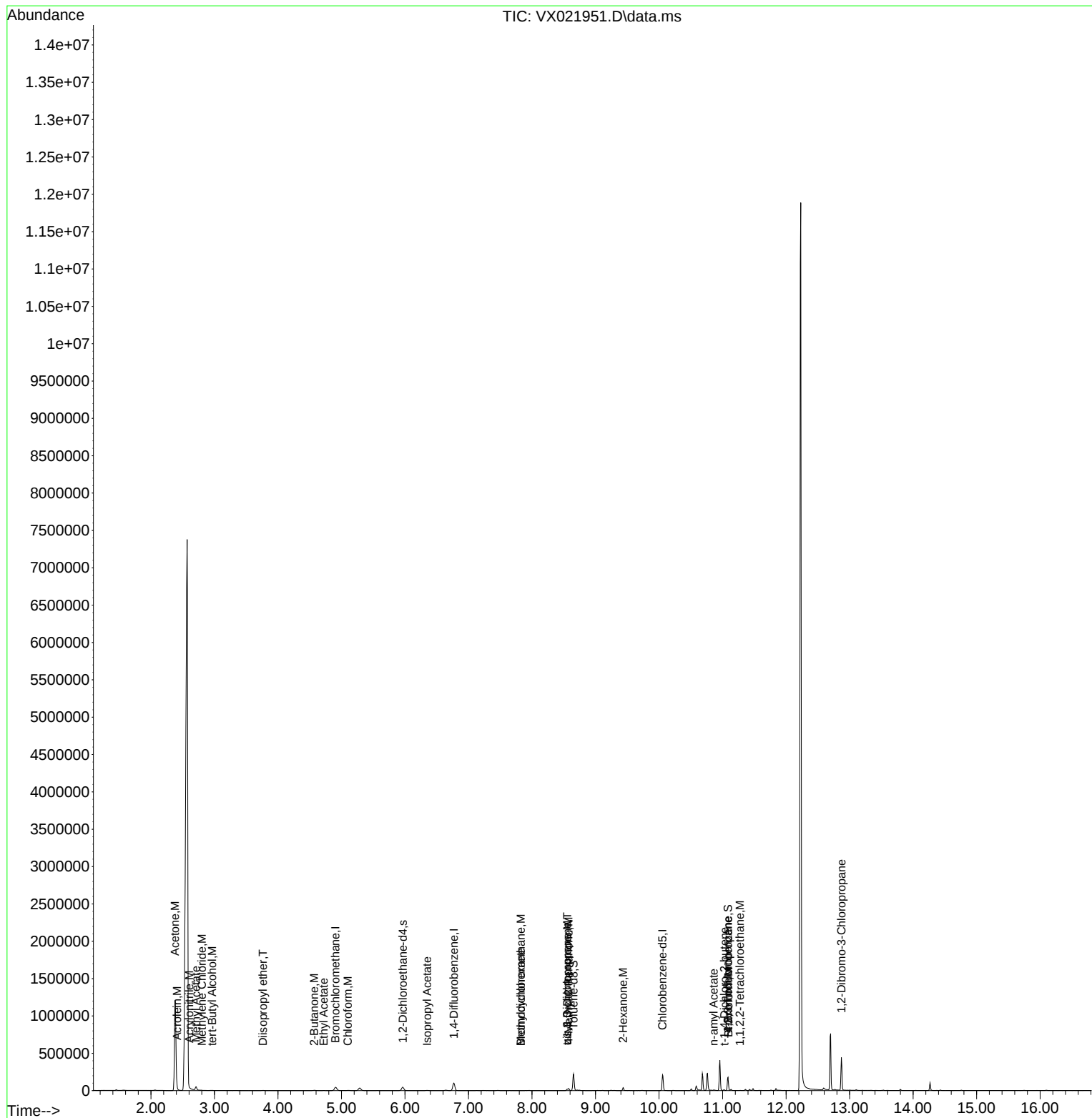
Internal Standards						
1) Bromochloromethane	4.903	128	17704	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	104317	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	92734	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	41591	30.50	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.67%			
60) 4-Bromofluorobenzene	11.085	95	47305	30.74	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.47%			
63) Toluene-d8	8.653	98	125572	29.63	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.77%			
Target Compounds						Qvalue
12) Methyl Acetate	2.709	43	52331	35.96	ug/l	95
13) Acrolein	2.410	56	67	0.30	ug/l	100
14) Acrylonitrile	2.605	53	121	0.20	ug/l #	37
15) Acetone	2.379	58	414891	2340.81	ug/l	93
18) Methylene Chloride	2.800	84	585	0.47	ug/l #	70
20) Diisopropyl ether	3.763	45	1679	0.48	ug/l #	74
23) tert-Butyl Alcohol	2.965	59	2429	8.42	ug/l #	100
25) Chloroform	5.098	83	3942	1.86	ug/l	94
30) 2-Butanone	4.568	43	4623	5.00	ug/l #	75
38) Methylcyclohexane	7.824	83	380	0.21	ug/l #	27
41) Bromodichloromethane	7.824	83	380	0.22	ug/l #	55
43) Ethyl Acetate	4.720	43	1047	0.56	ug/l #	91
44) Isopropyl Acetate	6.348	43	3632	1.17	ug/l #	82
47) n-amyl Acetate	10.860	43	852	0.33	ug/l #	85
48) t-1,3-Dichloropropene	8.555	75	3230	1.67	ug/l #	41
49) cis-1,3-Dichloropropene	8.555	75	3230	1.55	ug/l #	63
56) Bromoform	11.091	173	272	0.35	ug/l #	1
58) 4-Methyl-2-Pentanone	8.573	43	22199	11.87	ug/l #	85
59) 2-Hexanone	9.433	43	19624	14.17	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.274	83	888	0.48	ug/l #	47
72) 1,2,3-Trichloropropane	11.085	75	24484	14.79	ug/l	65
77) t-1,4-Dichloro-2-butene	11.030	75	942	1.40	ug/l #	17
88) 1,2-Dibromo-3-Chloropr...	12.871	75	10789	25.95	ug/l #	5

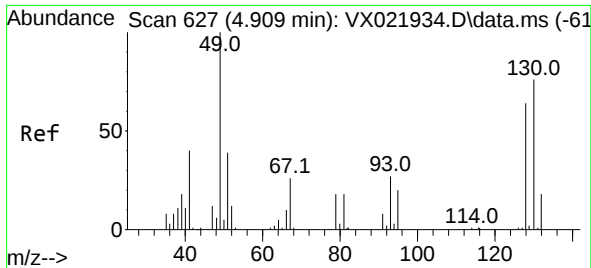
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Quant Time: May 13 06:29:45 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 13 06:11:35 2021
Response via : Initial Calibration

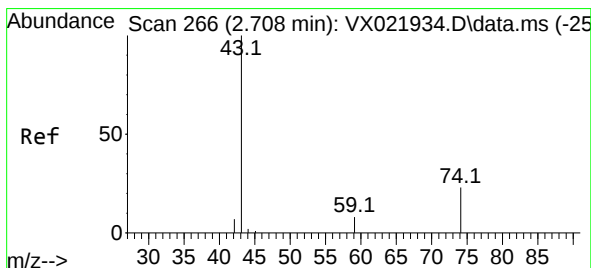
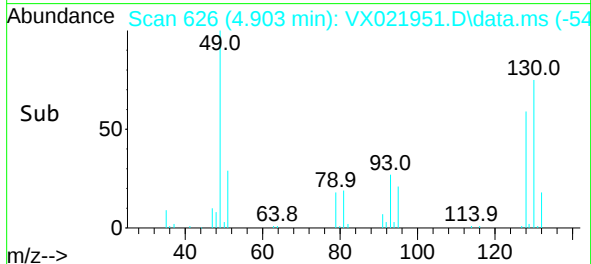
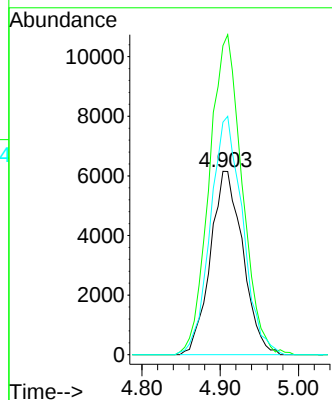
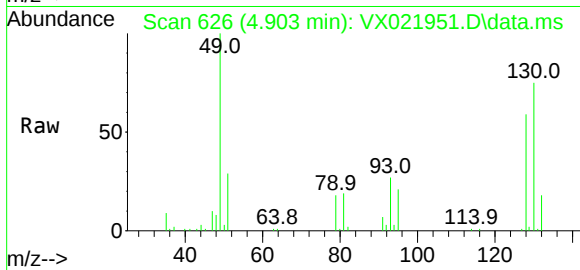




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

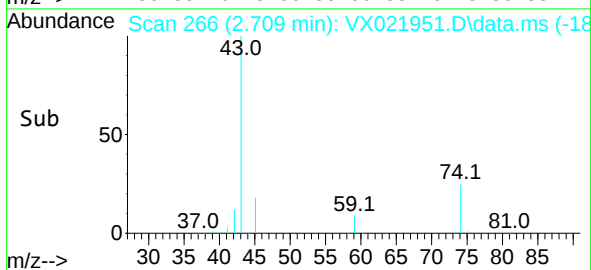
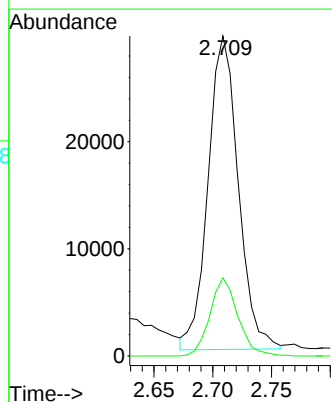
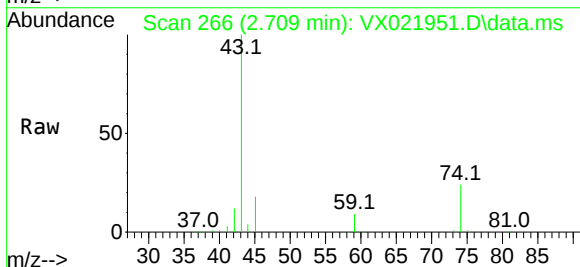
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

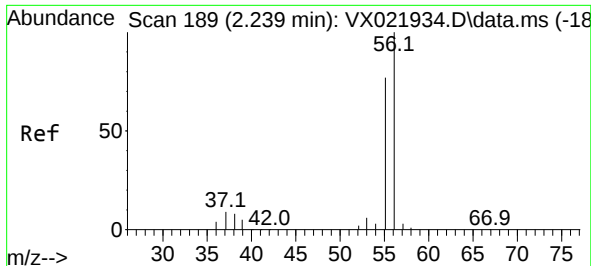
Tgt Ion:128 Resp: 17704
Ion Ratio Lower Upper
128 100
49 175.9 0.0 442.5
130 129.5 0.0 323.3



#12
Methyl Acetate
Concen: 35.96 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion: 43 Resp: 52331
Ion Ratio Lower Upper
43 100
74 25.5 18.5 27.7

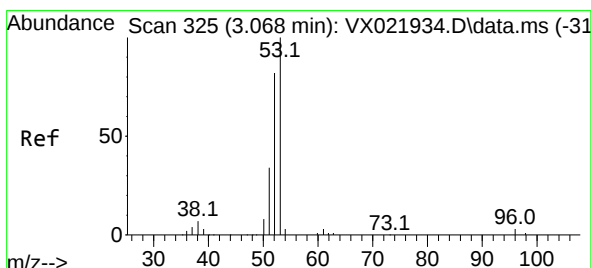
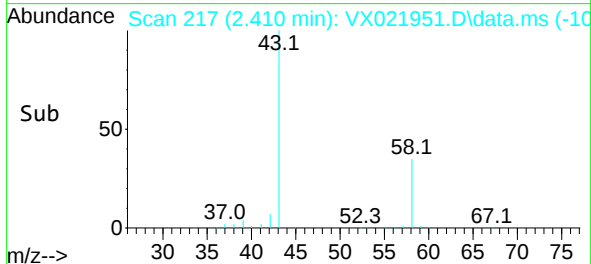
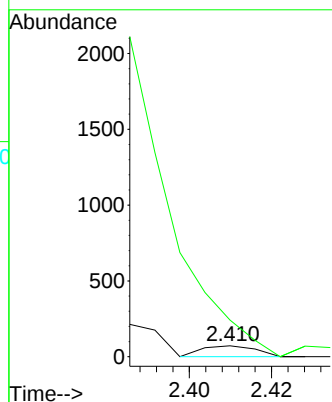
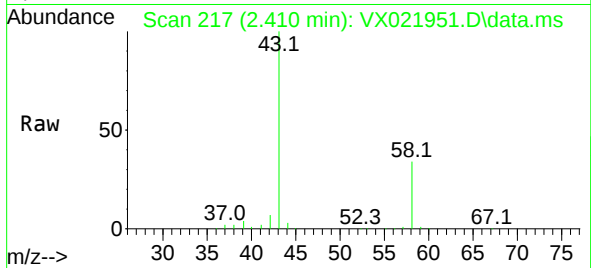




#13
Acrolein
Concen: 0.30 ug/l
RT: 2.410 min Scan# 217
Delta R.T. 0.171 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

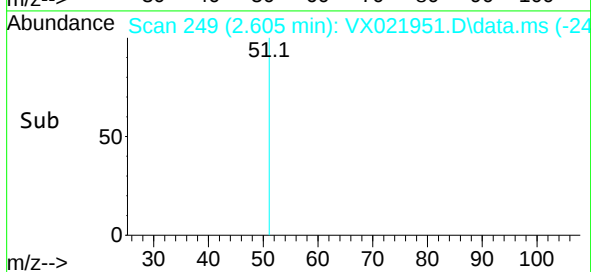
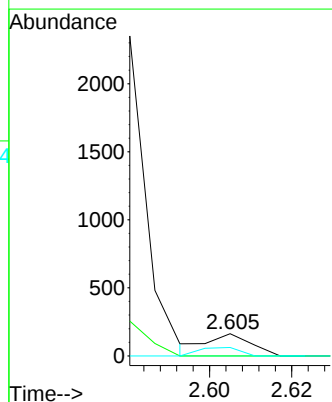
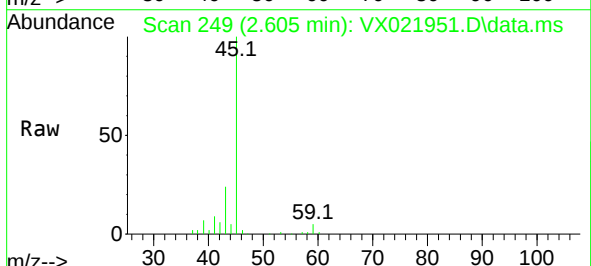
Instrument :
MSVOA_X
ClientSampled :
EFF-WW

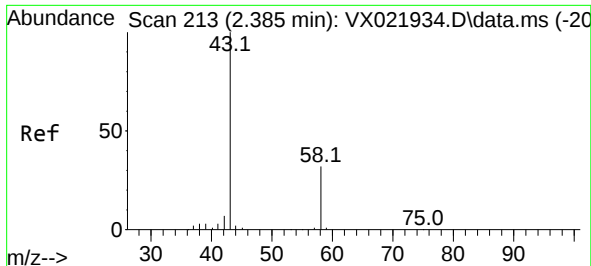
Tgt Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
55 71.6 57.6 86.4



#14
Acrylonitrile
Concen: 0.20 ug/l
RT: 2.605 min Scan# 249
Delta R.T. -0.463 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion: 53 Resp: 121
Ion Ratio Lower Upper
53 100
52 0.0 39.3 117.9#
51 35.5 17.1 51.2

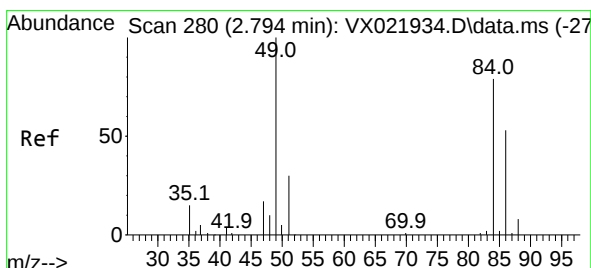
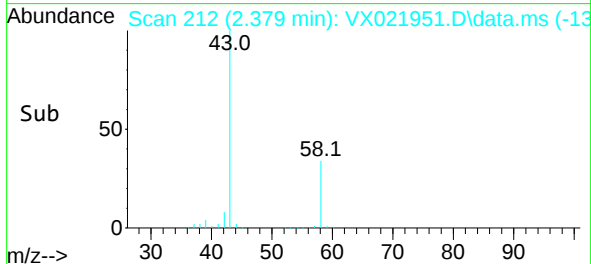
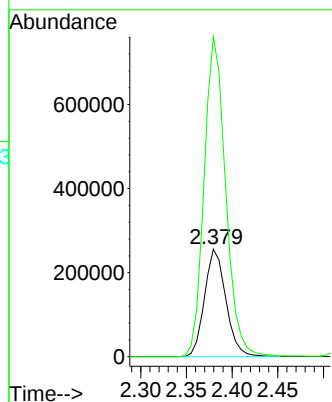
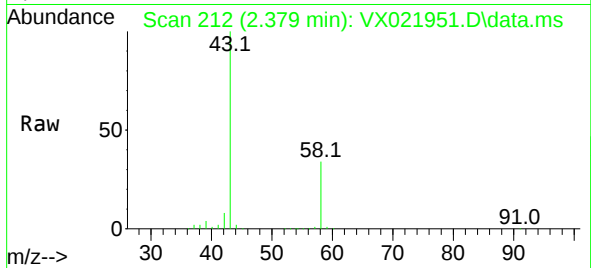




#15
Acetone
Concen: 2340.81 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

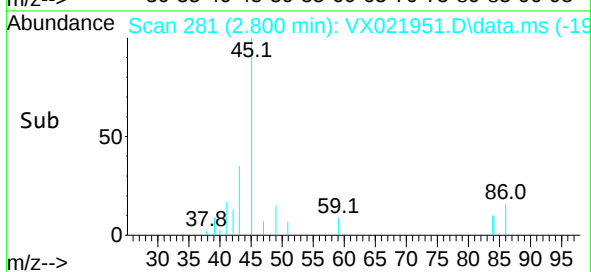
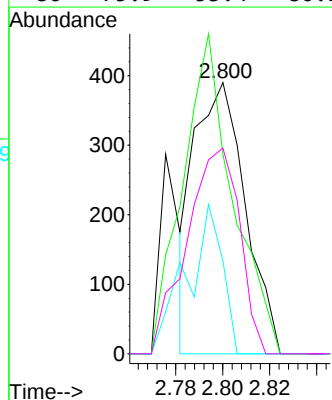
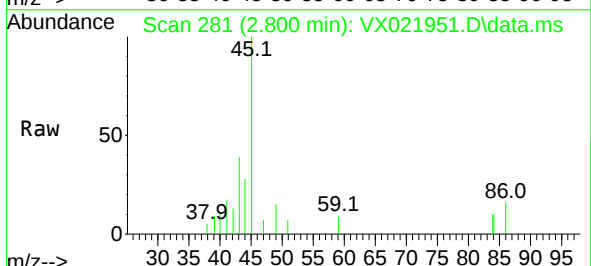
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

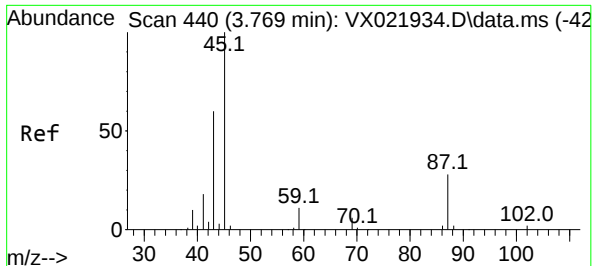
Tgt Ion: 58 Resp: 414891
Ion Ratio Lower Upper
58 100
43 297.8 249.5 374.3



#18
Methylene Chloride
Concen: 0.47 ug/l
RT: 2.800 min Scan# 281
Delta R.T. 0.006 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion: 84 Resp: 585
Ion Ratio Lower Upper
84 100
49 73.6 101.6 152.4#
51 34.4 30.5 45.7
86 75.9 53.4 80.2

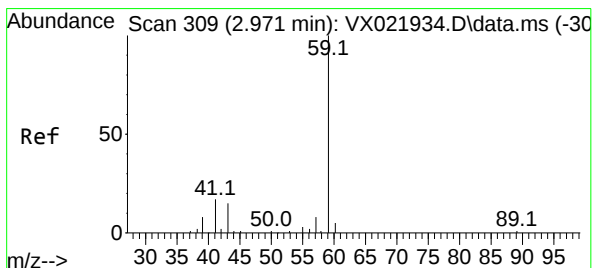
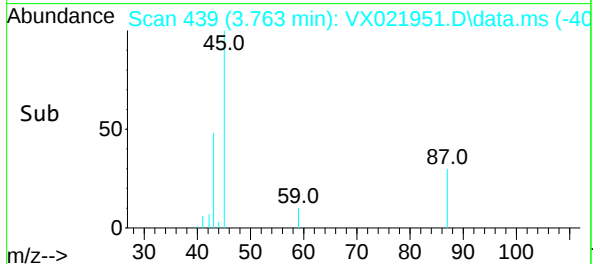
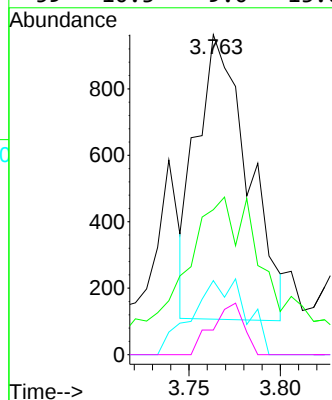
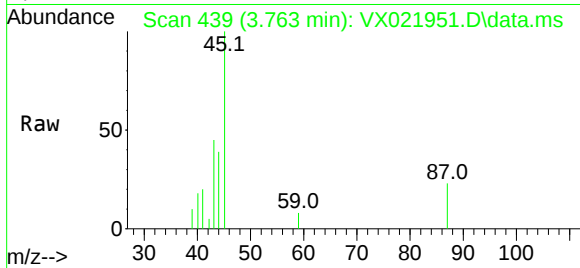




#20
Diisopropyl ether
Concen: 0.48 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

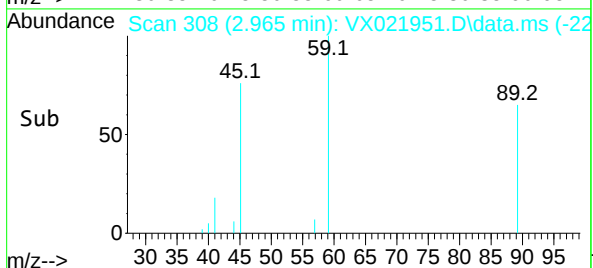
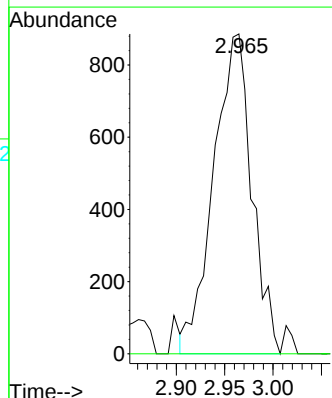
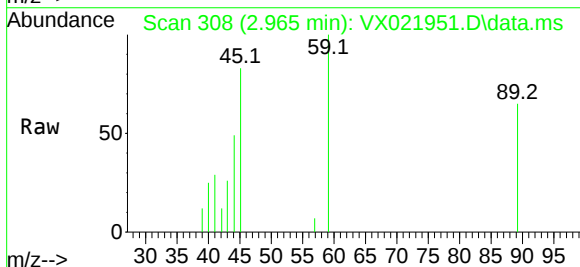
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

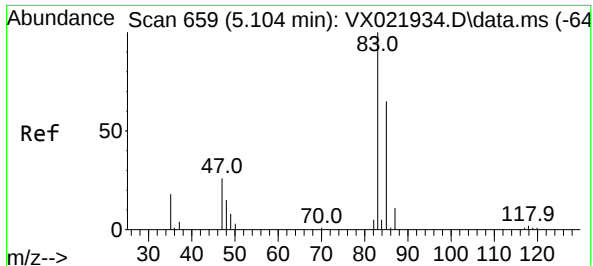
Tgt Ion:	45	Resp:	1679
Ion	Ratio	Lower	Upper
45	100		
43	42.5	58.5	87.7#
87	31.0	22.2	33.4
59	10.3	9.0	13.6



#23
tert-Butyl Alcohol
Concen: 8.42 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.006 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion:	59	Resp:	2429
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 1.86 ug/l

RT: 5.098 min Scan# 658

Delta R.T. -0.006 min

Lab File: VX021951.D

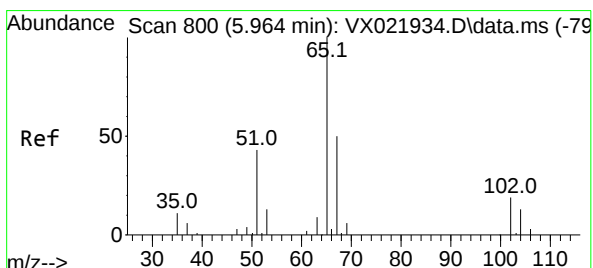
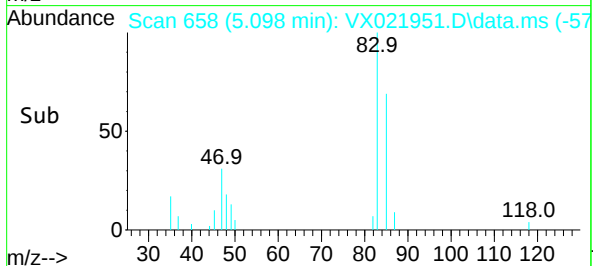
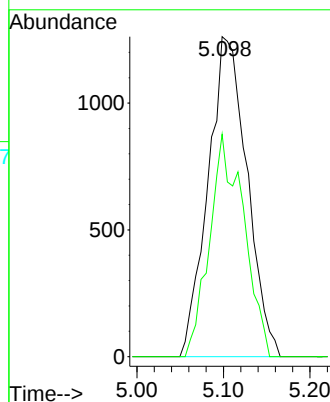
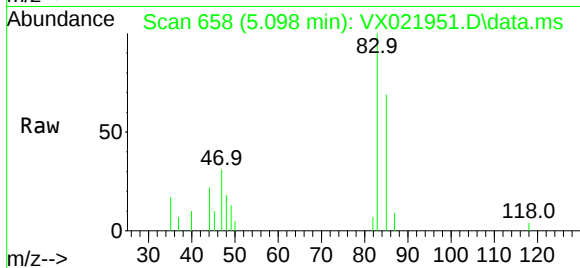
Acq: 13 May 2021 01:28

Tgt Ion: 83 Resp: 3942

Ion Ratio Lower Upper

83 100

85 69.5 51.9 77.9



#27

1,2-Dichloroethane-d4

Concen: 30.50 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX021951.D

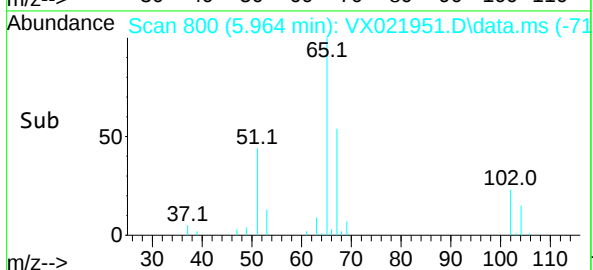
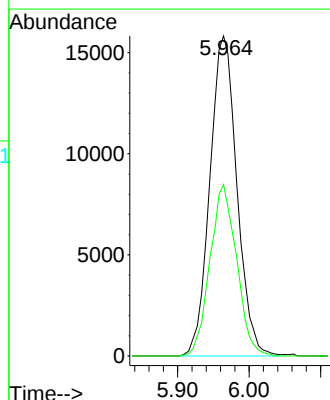
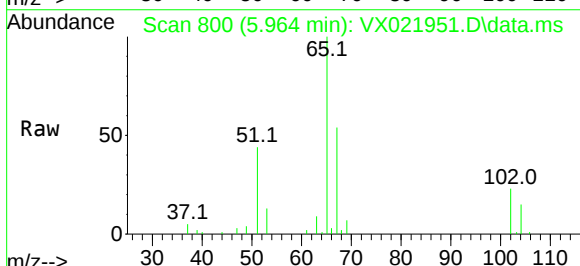
Acq: 13 May 2021 01:28

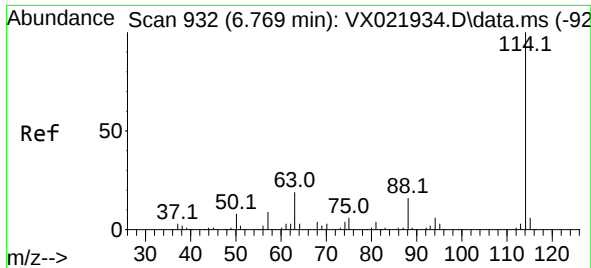
Tgt Ion: 65 Resp: 41591

Ion Ratio Lower Upper

65 100

67 52.7 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX021951.D

Acq: 13 May 2021 01:28

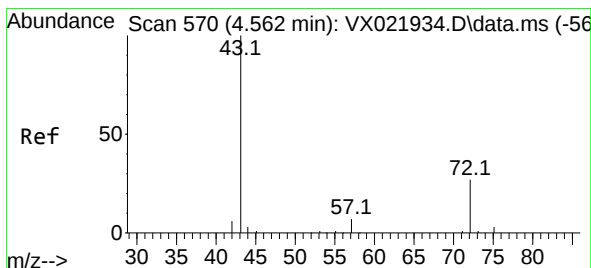
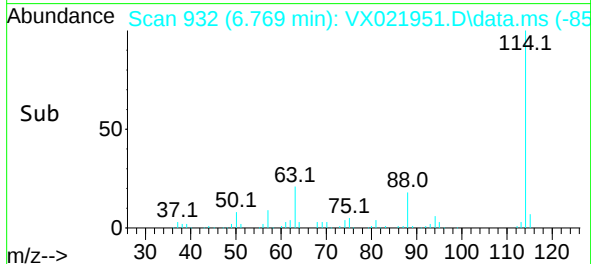
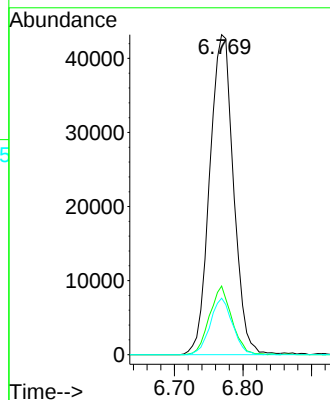
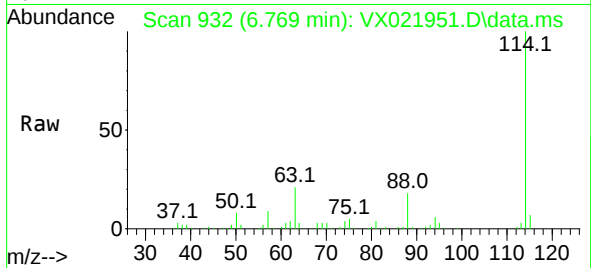
Tgt Ion:114 Resp: 104317

Ion Ratio Lower Upper

114 100

63 20.0 16.6 25.0

88 16.5 13.1 19.7



#30

2-Butanone

Concen: 5.00 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.006 min

Lab File: VX021951.D

Acq: 13 May 2021 01:28

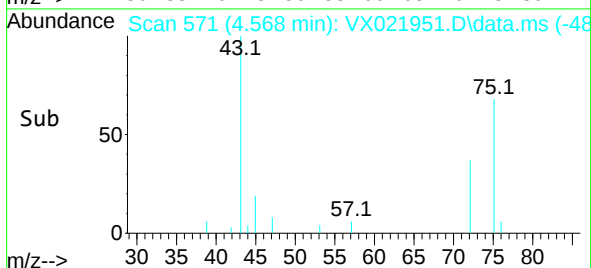
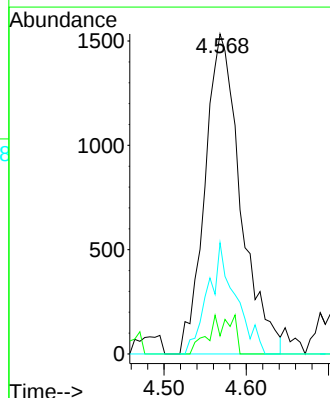
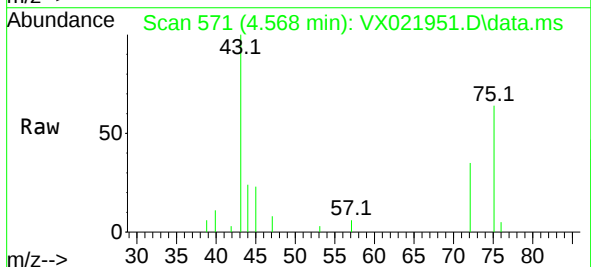
Tgt Ion: 43 Resp: 4623

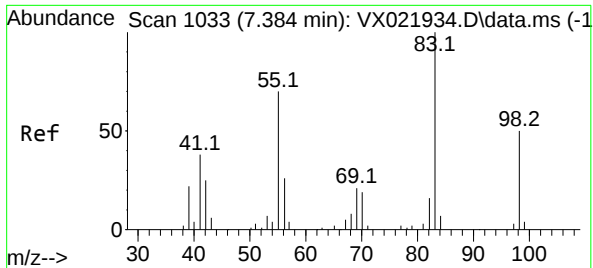
Ion Ratio Lower Upper

43 100

57 3.8 6.4 9.6#

72 12.8 22.1 33.1#

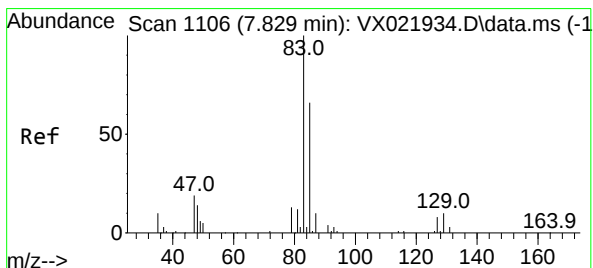
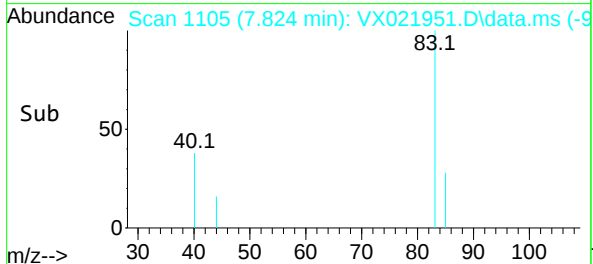
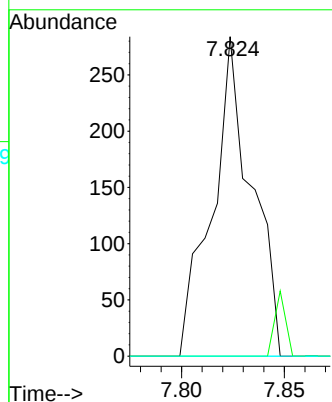
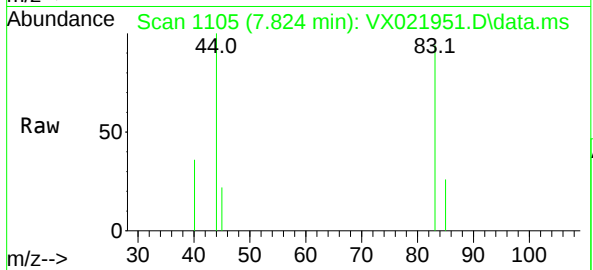




#38
Methylcyclohexane
Concen: 0.21 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.439 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

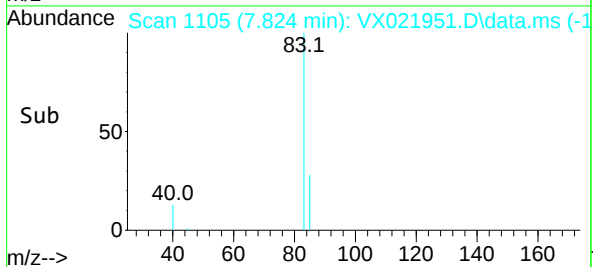
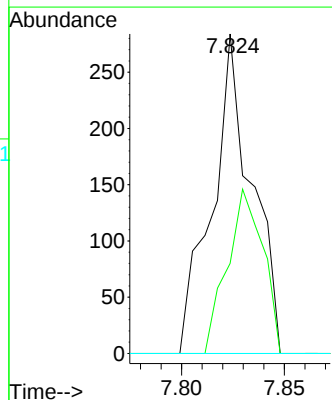
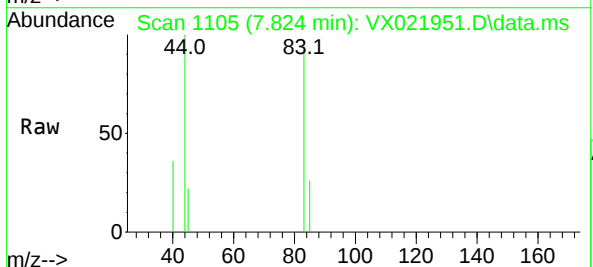
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

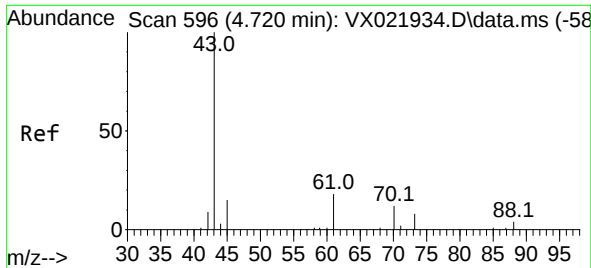
Tgt Ion: 83 Resp: 380
Ion Ratio Lower Upper
83 100
55 11.8 36.4 109.2#
98 0.0 25.3 75.9#



#41
Bromodichloromethane
Concen: 0.22 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion: 83 Resp: 380
Ion Ratio Lower Upper
83 100
85 28.2 52.6 78.8#
127 0.0 6.1 9.1#

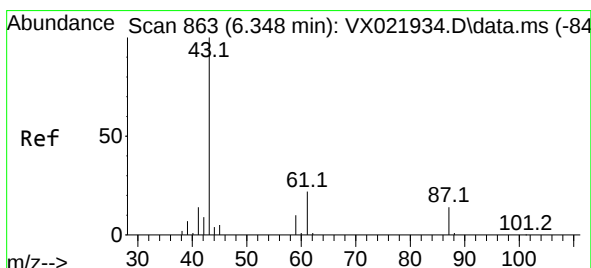
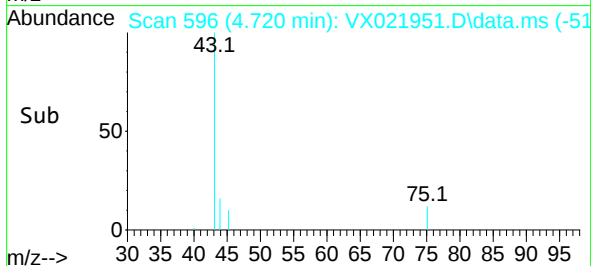
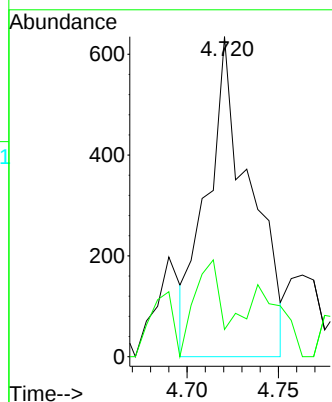
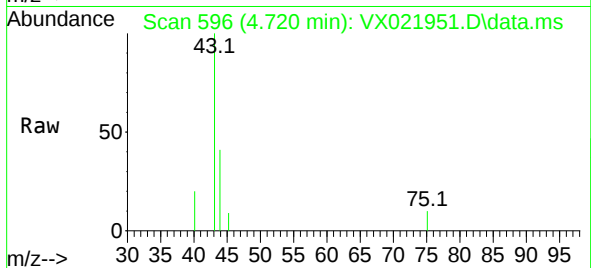




#43
Ethyl Acetate
Concen: 0.56 ug/l
RT: 4.720 min Scan# 596
Delta R.T. 0.000 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

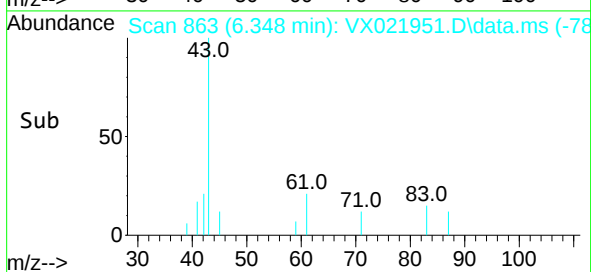
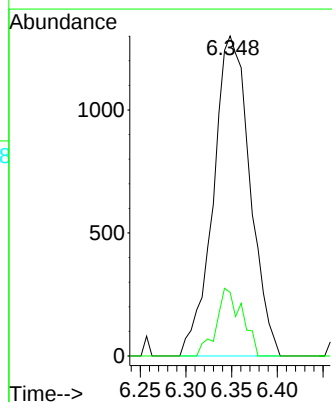
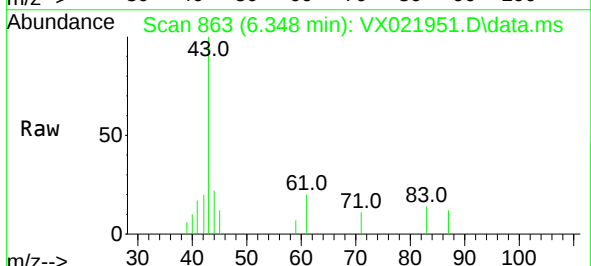
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

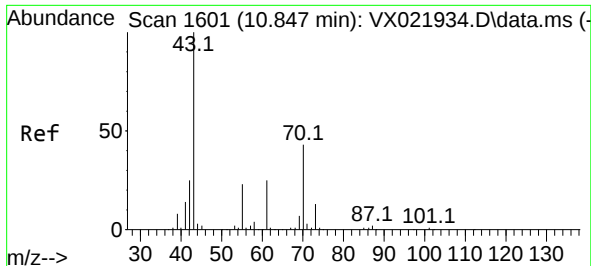
Tgt Ion: 43 Resp: 1047
Ion Ratio Lower Upper
43 100
45 17.9 11.2 16.8#



#44
Isopropyl Acetate
Concen: 1.17 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.000 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion: 43 Resp: 3632
Ion Ratio Lower Upper
43 100
61 12.9 17.0 25.4#





#47

n-amy1 Acetate

Concen: 0.33 ug/l

RT: 10.860 min Scan# 1603

Delta R.T. 0.012 min

Lab File: VX021951.D

Acq: 13 May 2021 01:28

Tgt Ion: 43 Resp: 852

Ion Ratio Lower Upper

43 100

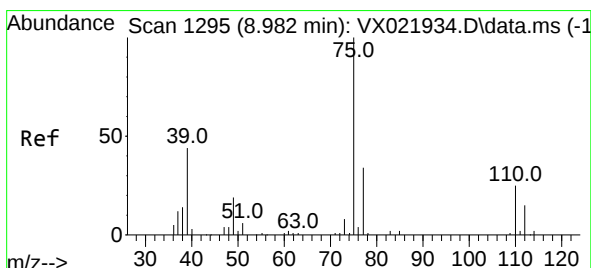
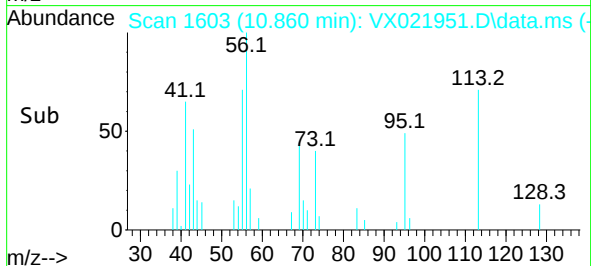
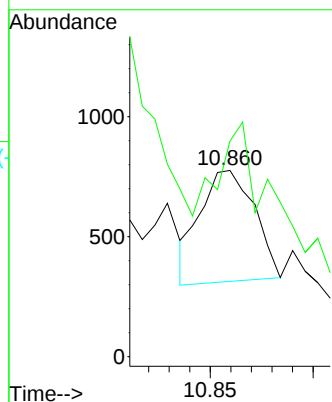
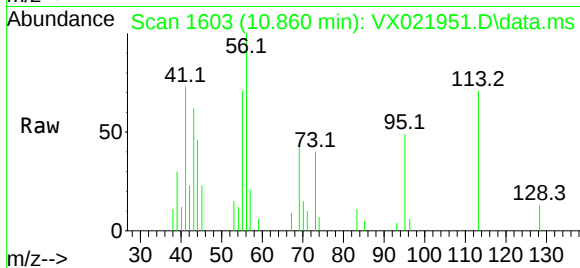
55 30.8 18.9 28.3#

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW



#48

t-1,3-Dichloropropene

Concen: 1.67 ug/l

RT: 8.555 min Scan# 1225

Delta R.T. -0.427 min

Lab File: VX021951.D

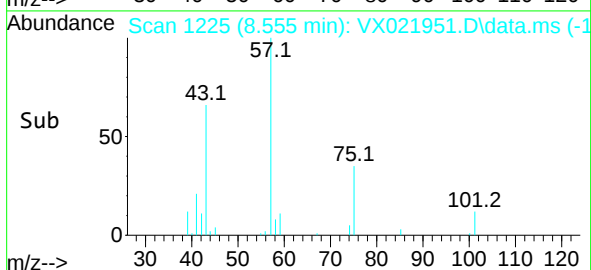
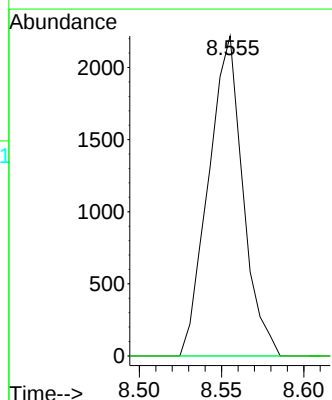
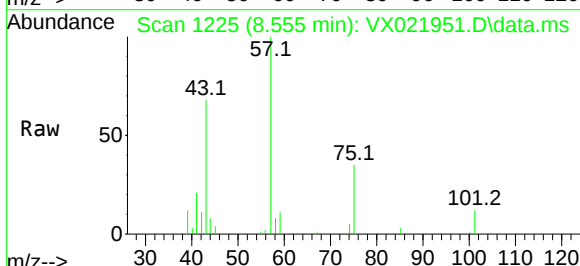
Acq: 13 May 2021 01:28

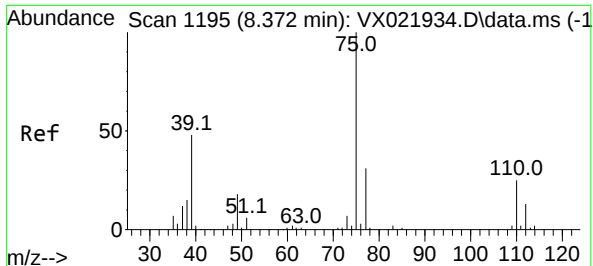
Tgt Ion: 75 Resp: 3230

Ion Ratio Lower Upper

75 100

77 0.0 26.8 40.2#



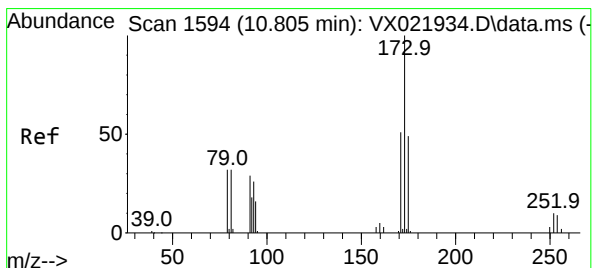
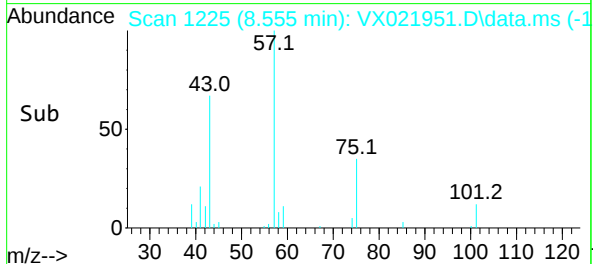
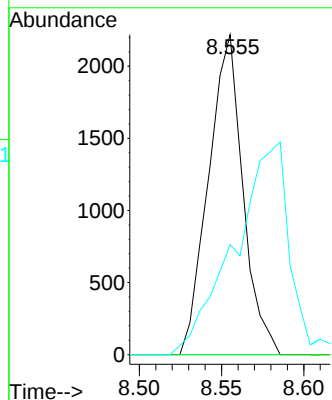
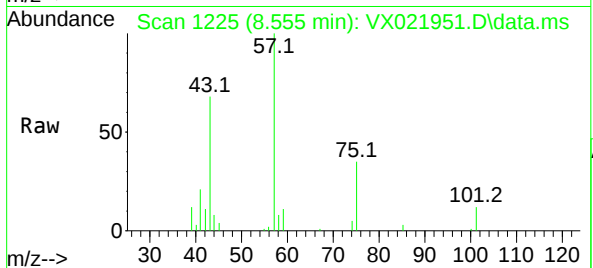


#49

cis-1,3-Dichloropropene
Concen: 1.55 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. 0.183 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

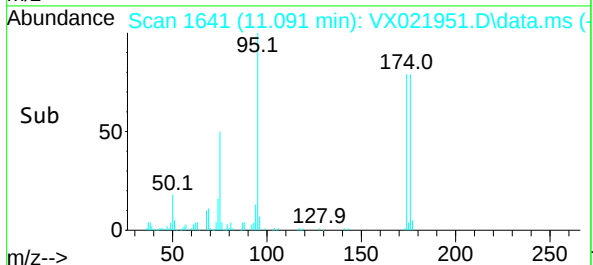
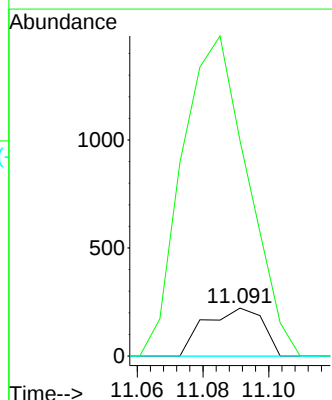
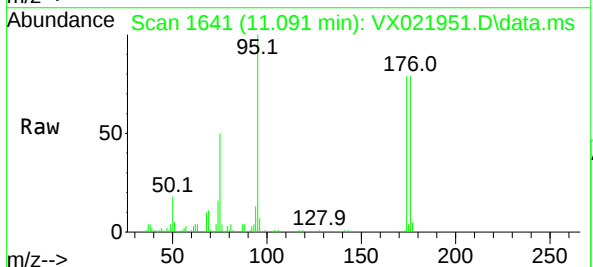
Tgt Ion: 75 Resp: 3230
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#
39 31.5 38.6 57.8#

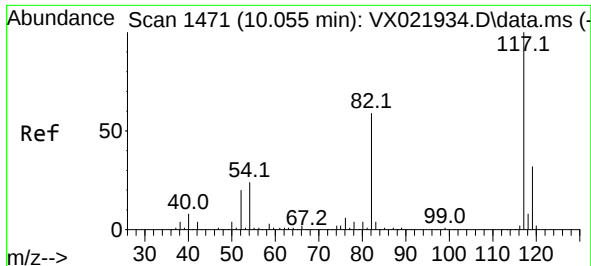


#56

Bromoform
Concen: 0.35 ug/l
RT: 11.091 min Scan# 1641
Delta R.T. 0.287 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion: 173 Resp: 272
Ion Ratio Lower Upper
173 100
175 754.0 39.4 59.2#
254 0.0 8.0 12.0#

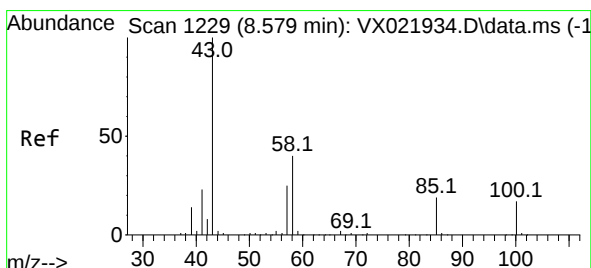
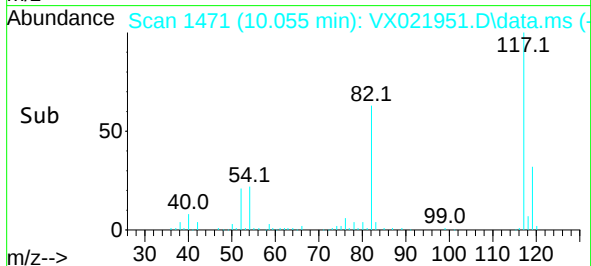
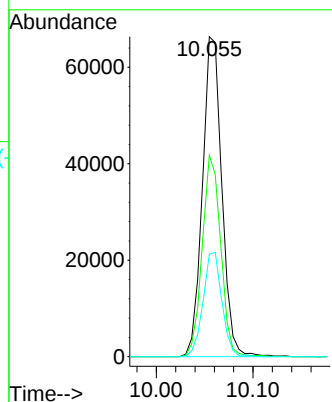
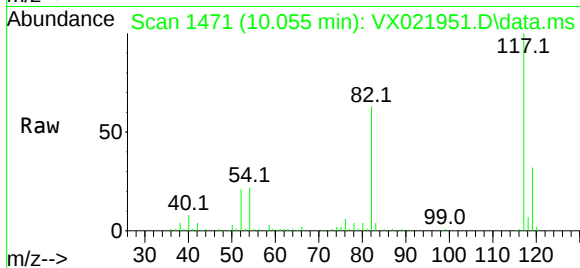




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

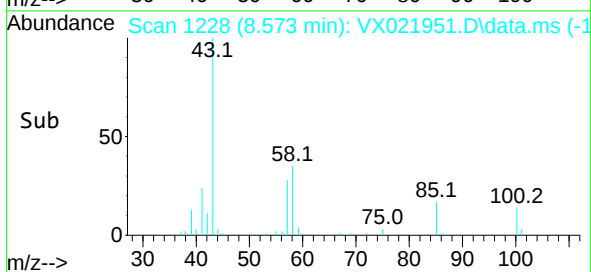
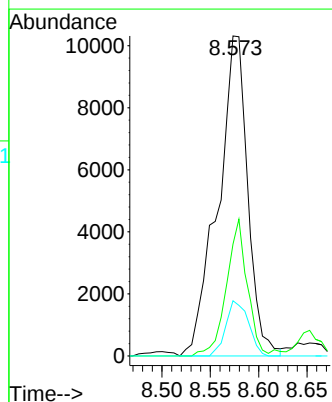
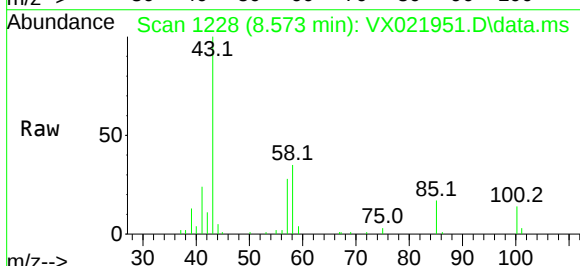
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

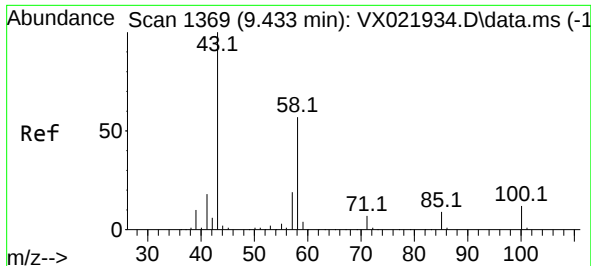
Tgt Ion:117 Resp: 92734
Ion Ratio Lower Upper
117 100
82 59.4 44.9 67.3
119 31.4 25.0 37.6



#58
4-Methyl-2-Pentanone
Concen: 11.87 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.006 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion: 43 Resp: 22199
Ion Ratio Lower Upper
43 100
58 29.7 31.8 47.6#
85 13.0 14.9 22.3#

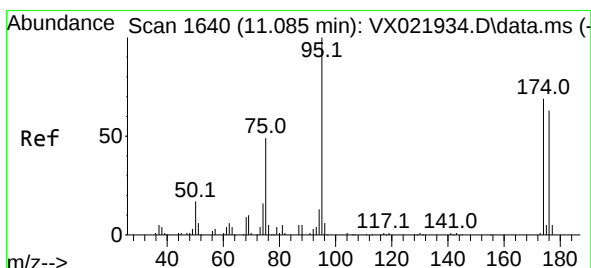
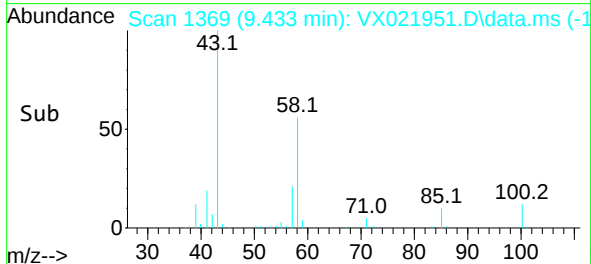
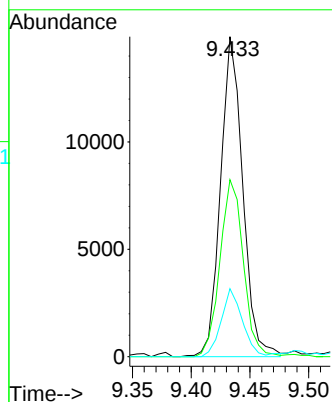
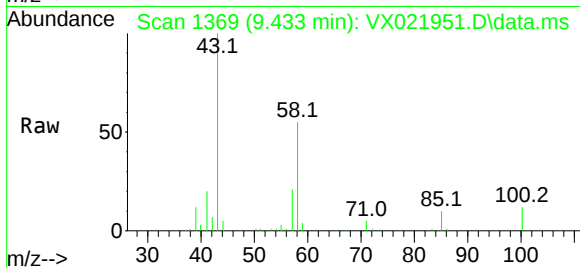




#59
2-Hexanone
Concen: 14.17 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

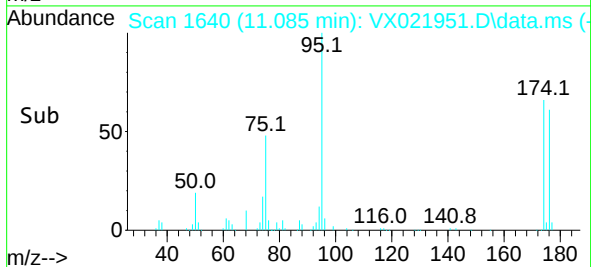
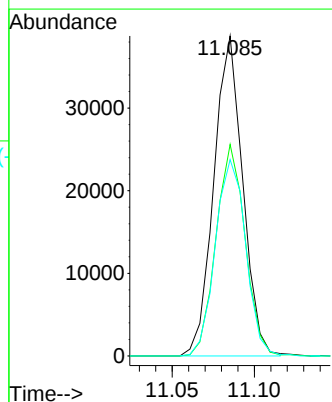
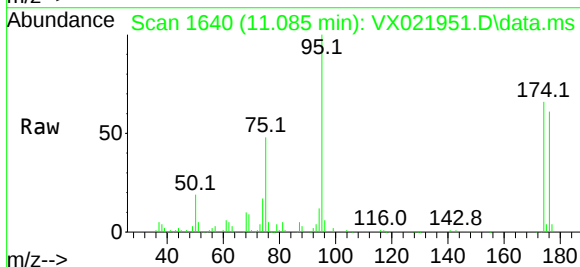
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

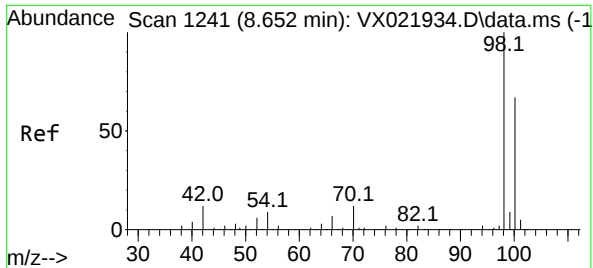
Tgt Ion:	43	Resp:	19624
Ion	Ratio	Lower	Upper
43	100		
58	58.2	45.3	67.9
57	20.2	15.0	22.6



#60
4-Bromofluorobenzene
Concen: 30.74 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion:	95	Resp:	47305
Ion	Ratio	Lower	Upper
95	100		
174	66.5	52.2	78.2
176	64.6	49.3	73.9

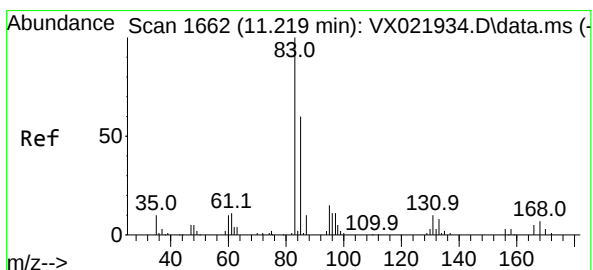
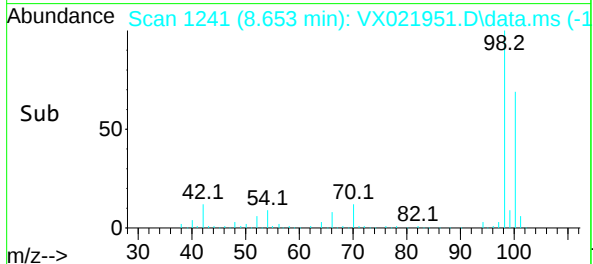
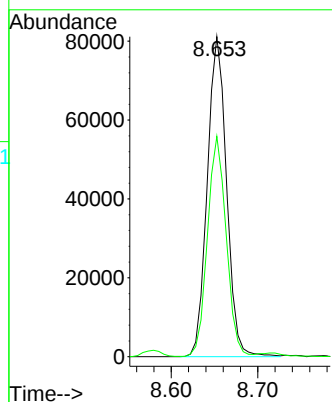
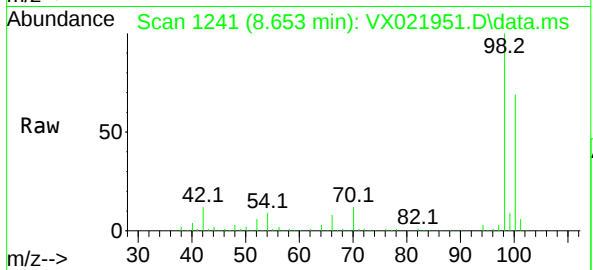




#63
Toluene-d8
Concen: 29.63 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.001 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

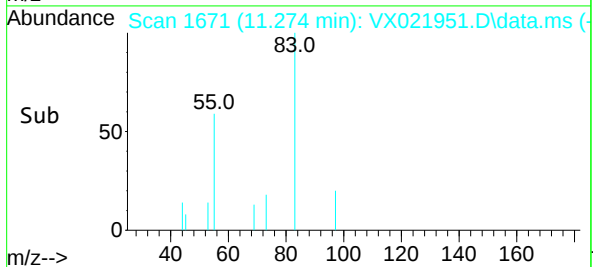
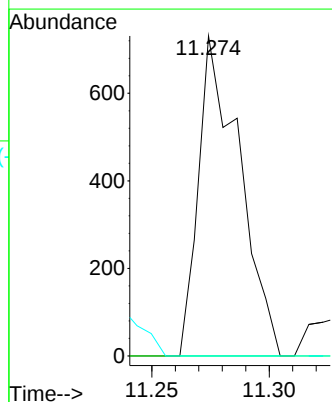
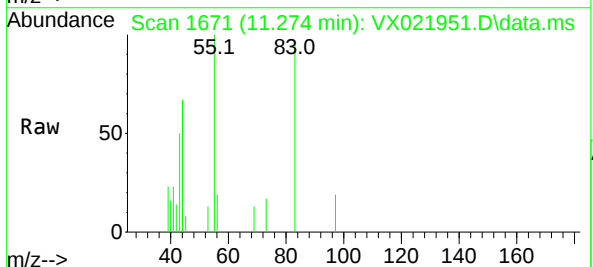
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

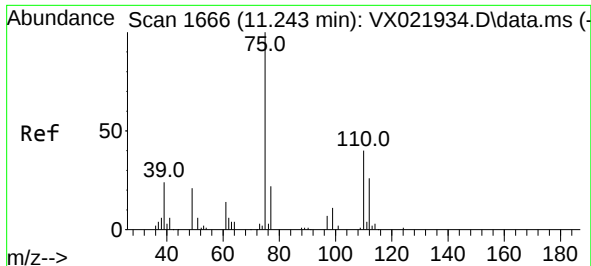
Tgt Ion: 98 Resp: 125572
Ion Ratio Lower Upper
98 100
100 66.8 52.6 78.8



#71
1,1,2,2-Tetrachloroethane
Concen: 0.48 ug/l
RT: 11.274 min Scan# 1671
Delta R.T. 0.055 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

Tgt Ion: 83 Resp: 888
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.1#
85 17.6 30.8 92.3#

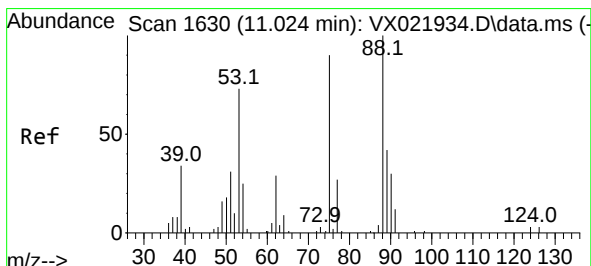
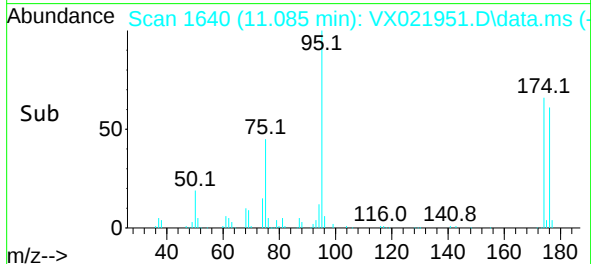
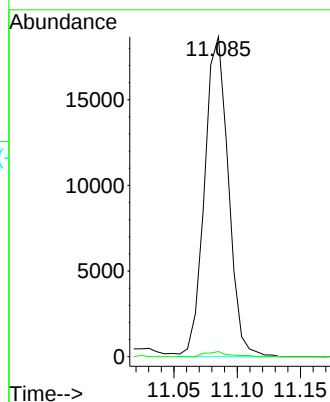
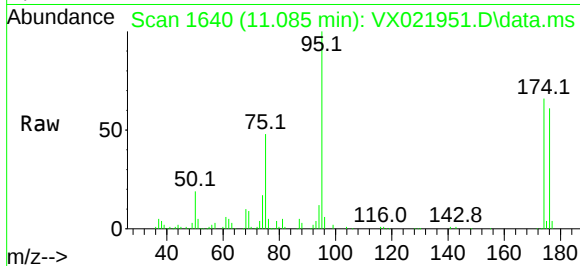




#72
1,2,3-Trichloropropane
Concen: 14.79 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. -0.158 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

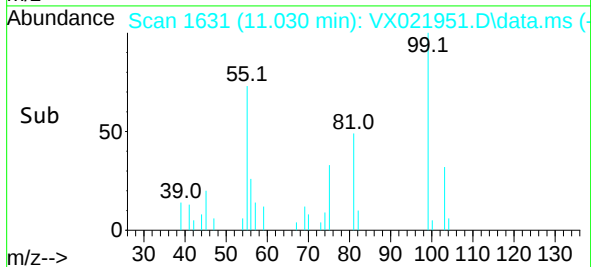
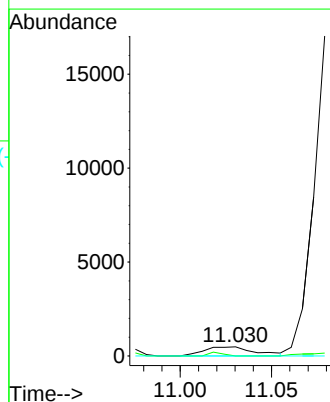
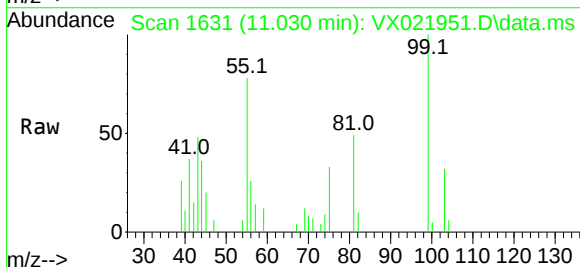
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

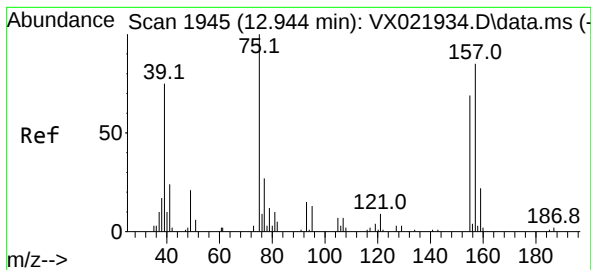
Tgt Ion: 75 Resp: 24484
Ion Ratio Lower Upper
75 100
77 1.6 0.0 33.0



#77
t-1,4-Dichloro-2-butene
Concen: 1.40 ug/l
RT: 11.030 min Scan# 1631
Delta R.T. 0.006 min
Lab File: VX021951.D
Acq: 13 May 2021 01:28

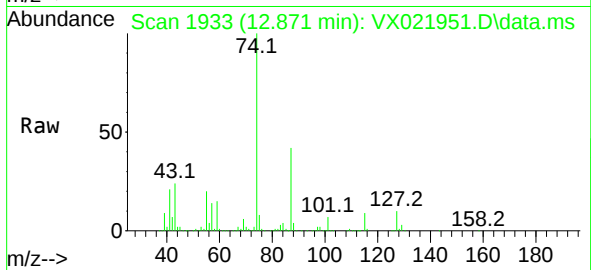
Tgt Ion: 75 Resp: 942
Ion Ratio Lower Upper
75 100
53 0.0 40.2 120.6#
89 0.0 23.4 70.0#





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 25.95 ug/l
 RT: 12.871 min Scan# 1933
 Delta R.T. -0.073 min
 Lab File: VX021951.D
 Acq: 13 May 2021 01:28

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW



Tgt Ion: 75 Resp: 10789
 Ion Ratio Lower Upper
 75 100
 155 0.0 64.6 97.0#
 157 0.0 75.8 113.6#

