

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021822\
 Data File : VX027106.D
 Acq On : 18 Feb 2022 13:43
 Operator : JC/MD
 Sample : N1582-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Feb 21 00:20:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X021822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 18 05:14:00 2022
 Response via : Initial Calibration

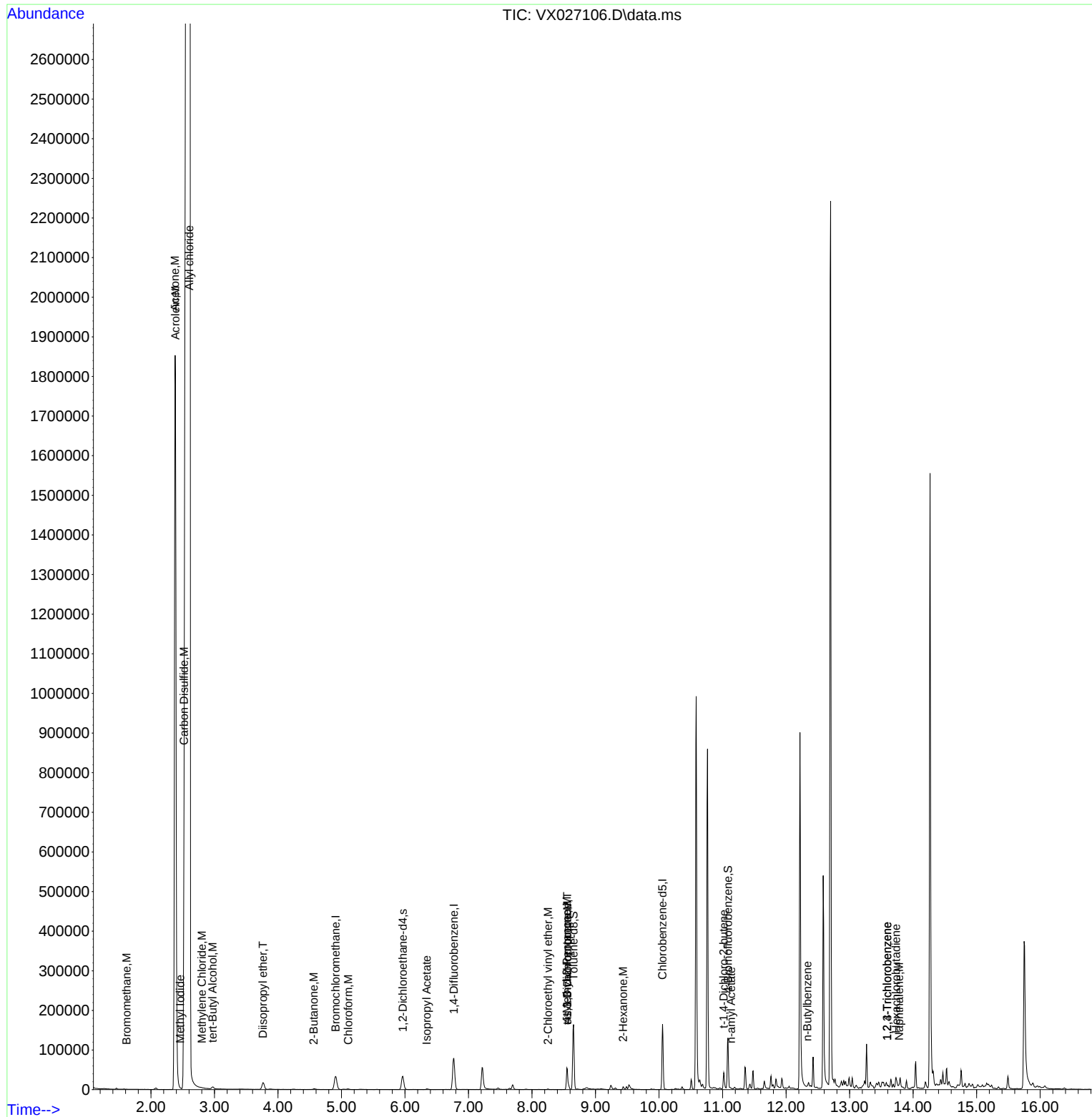
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.909	128	14774	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	84253	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	73319	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	32732	30.640	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.133%
60) 4-Bromofluorobenzene	11.085	95	35393	29.685	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.967%
63) Toluene-d8	8.653	98	98365	29.924	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.733%
Target Compounds						
					Qvalue	
5) Bromomethane	1.617	94	218	0.555	ug/l	83
11) Methyl Iodide	2.459	142	480	0.424	ug/l #	79
13) Acrolein	2.386	56	423	2.053	ug/l #	1
15) Acetone	2.379	58	655778	4415.282	ug/l	96
16) Carbon Disulfide	2.520	76	683	0.304	ug/l #	74
17) Allyl chloride	2.605	41	1516499	985.773	ug/l #	66
18) Methylene Chloride	2.800	84	280	0.290	ug/l #	65
20) Diisopropyl ether	3.763	45	18705	6.148	ug/l #	84
23) tert-Butyl Alcohol	2.971	59	6380	29.444	ug/l #	100
25) Chloroform	5.105	83	1941	1.118	ug/l #	75
30) 2-Butanone	4.562	43	1404	1.747	ug/l	97
44) Isopropyl Acetate	6.342	43	2232	0.939	ug/l #	84
47) n-amyl Acetate	11.134	43	398	0.211	ug/l	91
48) t-1,3-Dichloropropene	8.555	75	8905	6.681	ug/l #	42
49) cis-1,3-Dichloropropene	8.555	75	8905	5.898	ug/l #	58
55) 2-Chloroethyl vinyl ether	8.250	63	596	0.785	ug/l #	90
58) 4-Methyl-2-Pentanone	8.549	43	22405	14.857	ug/l #	62
59) 2-Hexanone	9.433	43	4085	3.566	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	18193	47.474	ug/l #	3
85) n-Butylbenzene	12.335	91	934	0.291	ug/l	90
89) 1,2,4-Trichlorobenzene	13.591	180	442	0.353	ug/l	93
90) Hexachlorobutadiene	13.731	225	302	0.577	ug/l	92
91) Naphthalene	13.780	128	1361	0.309	ug/l	99
92) 1,2,3-Trichlorobenzene	13.591	180	442	0.349	ug/l	93

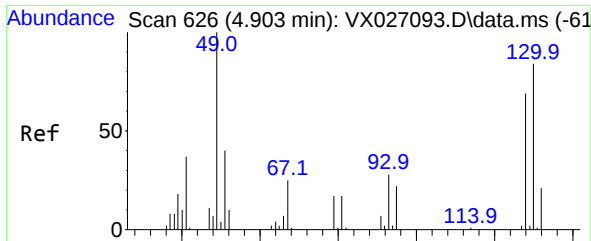
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
EFF-WW

Quant Time: Feb 21 00:20:46 2022
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 18 05:14:00 2022
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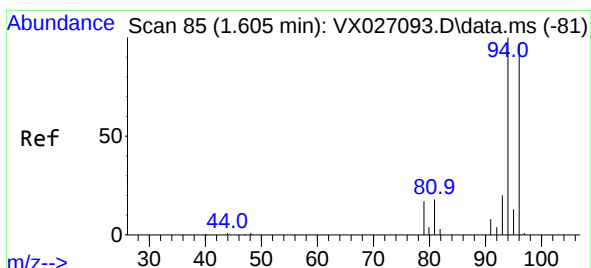
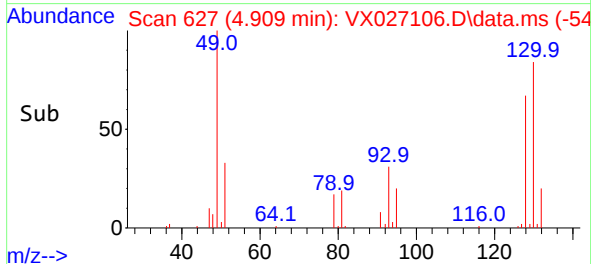
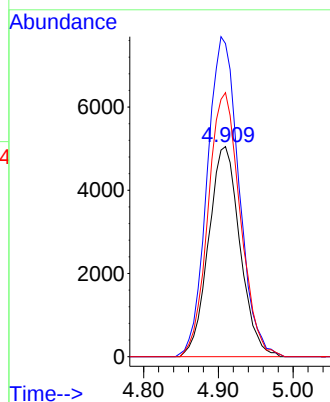
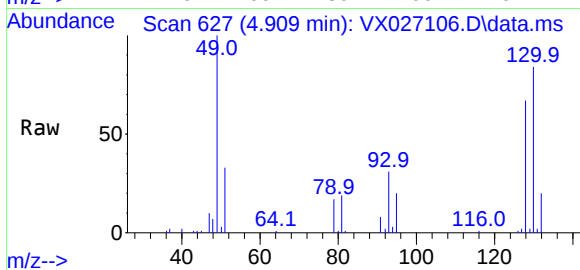




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.909 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

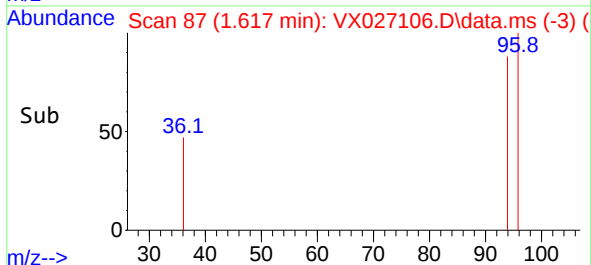
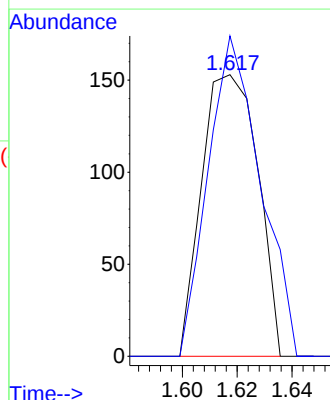
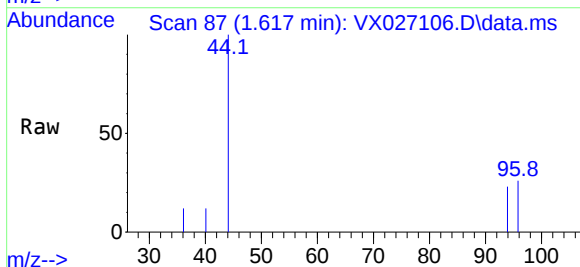
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

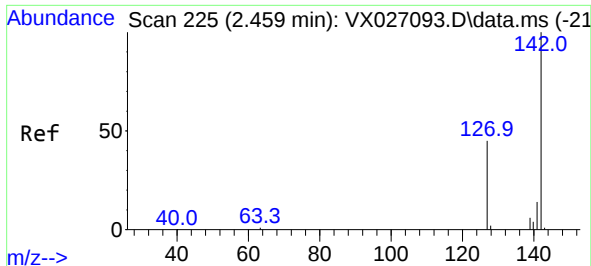
Tgt Ion:	128	Resp:	14774
Ion	Ratio	Lower	Upper
128	100		
49	154.2	0.0	387.0
130	128.5	0.0	323.0



#5
Bromomethane
Concen: 0.555 ug/l
RT: 1.617 min Scan# 87
Delta R.T. 0.012 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion:	94	Resp:	218
Ion	Ratio	Lower	Upper
94	100		
96	113.7	77.9	116.9

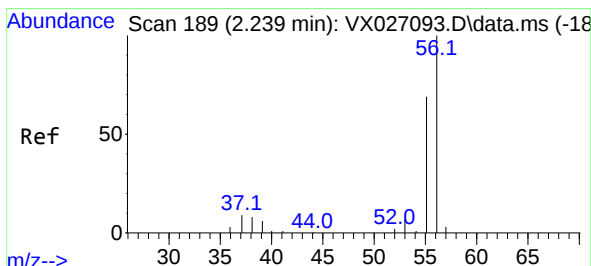
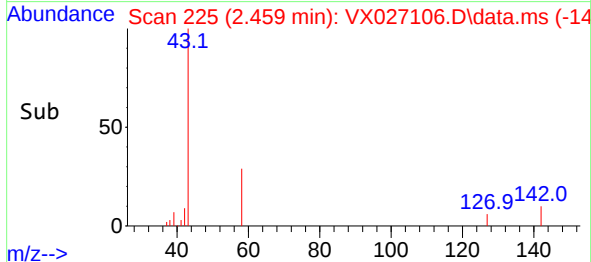
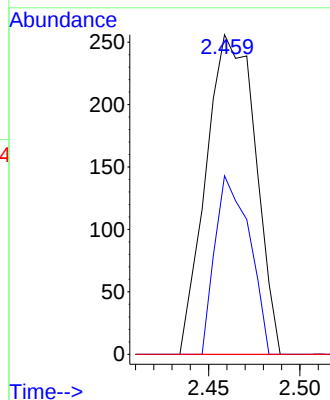
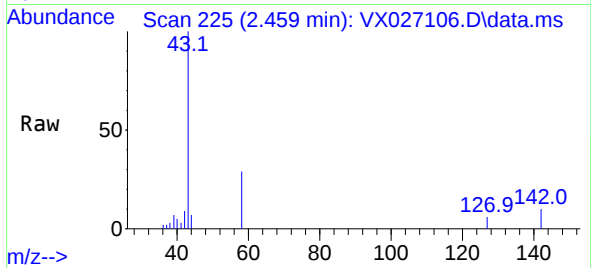




#11
Methyl Iodide
Concen: 0.424 ug/l
RT: 2.459 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

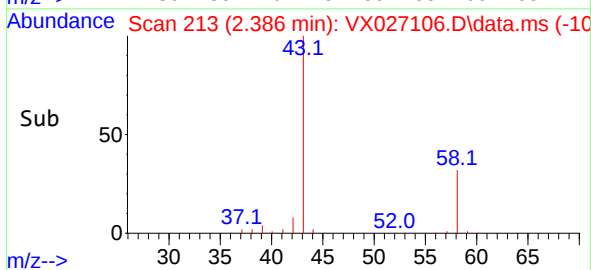
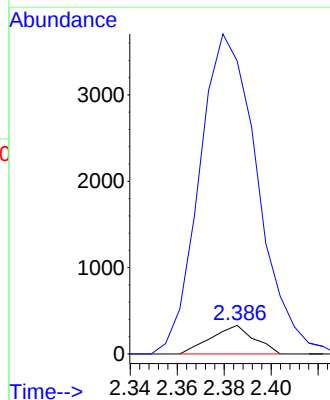
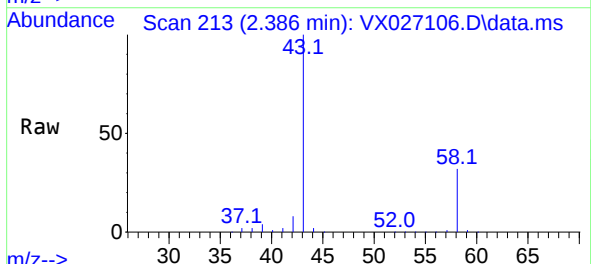
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

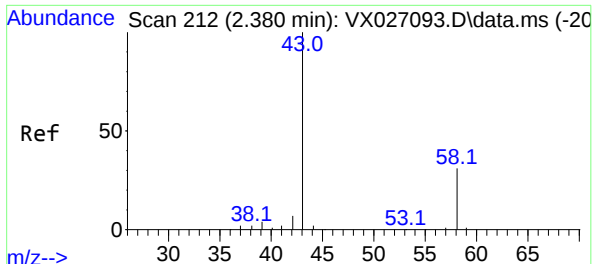
Tgt Ion:142 Resp: 480
Ion Ratio Lower Upper
142 100
127 55.9 22.5 67.5
141 0.0 7.2 21.7#



#13
Acrolein
Concen: 2.053 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.146 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion: 56 Resp: 423
Ion Ratio Lower Upper
56 100
55 1512.5 56.0 84.0#

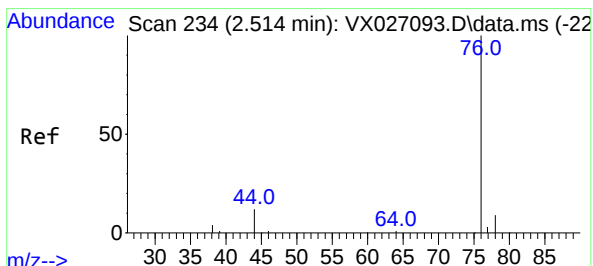
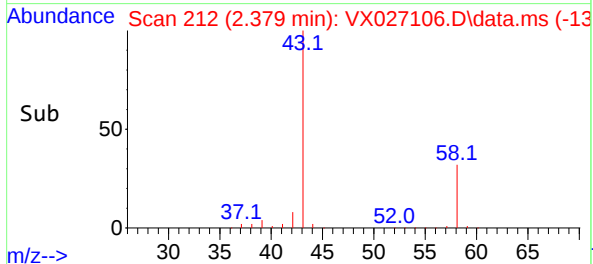
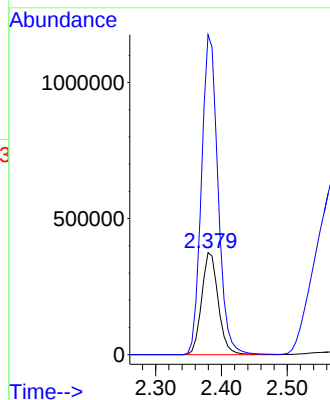
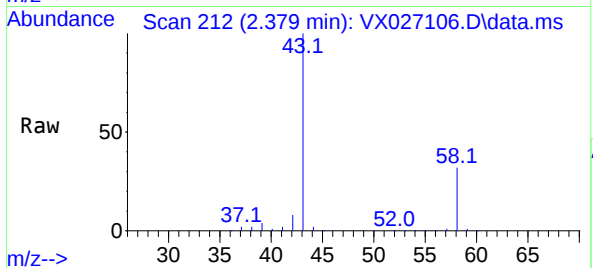




#15
Acetone
Concen: 4415.282 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

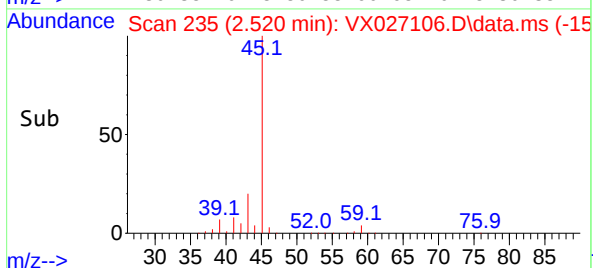
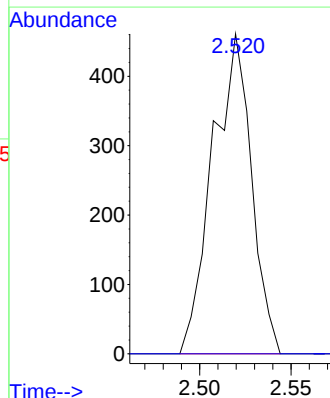
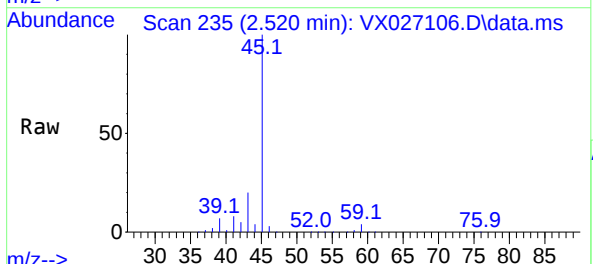
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

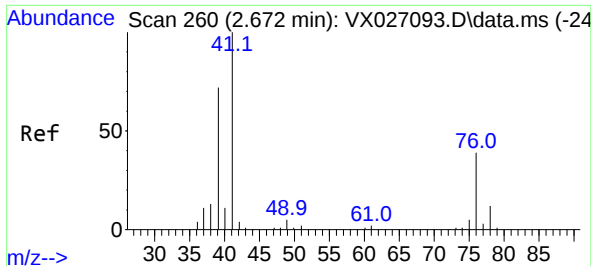
Tgt Ion: 58 Resp: 655778
Ion Ratio Lower Upper
58 100
43 313.5 256.9 385.3



#16
Carbon Disulfide
Concen: 0.304 ug/l
RT: 2.520 min Scan# 235
Delta R.T. 0.006 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion: 76 Resp: 683
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#





#17

Allyl chloride

Concen: 985.773 ug/l

RT: 2.605 min Scan# 24

Delta R.T. -0.067 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

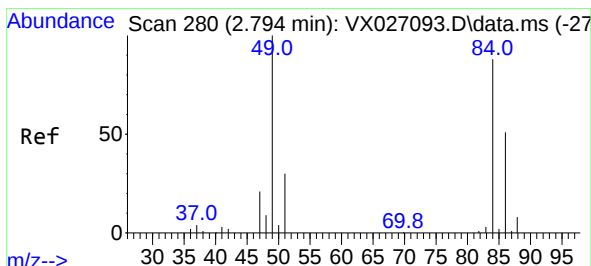
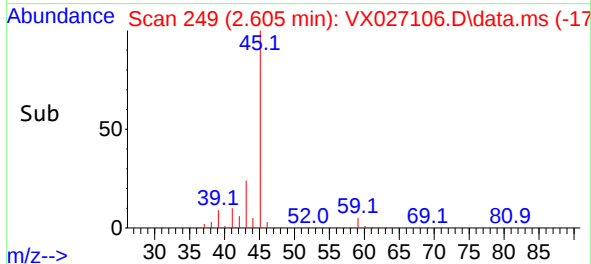
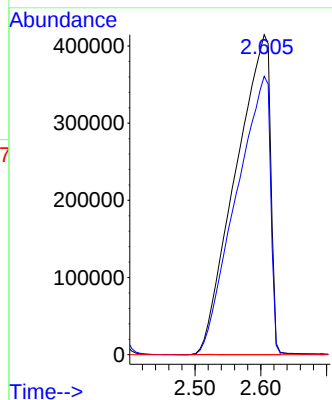
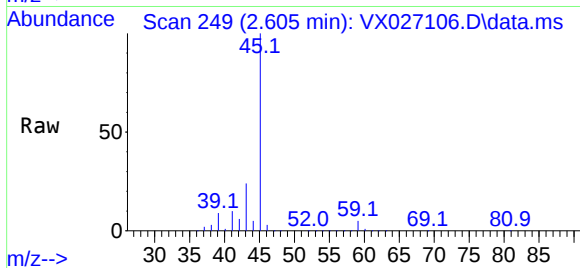
Tgt Ion: 41 Resp: 1516499

Ion Ratio Lower Upper

41 100

39 87.0 35.8 107.3

76 0.0 19.3 57.9#



#18

Methylene Chloride

Concen: 0.290 ug/l

RT: 2.800 min Scan# 281

Delta R.T. 0.006 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

Tgt Ion: 84 Resp: 280

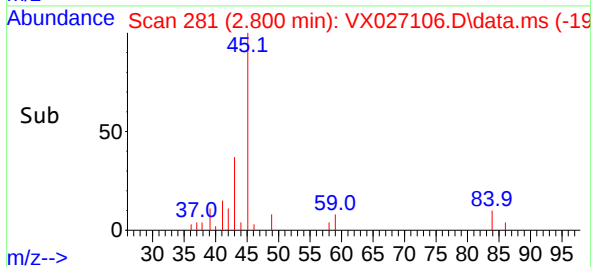
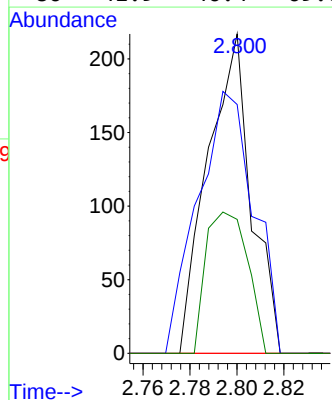
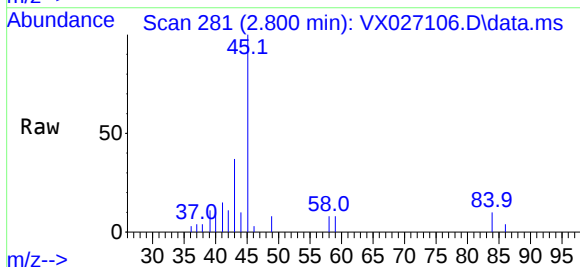
Ion Ratio Lower Upper

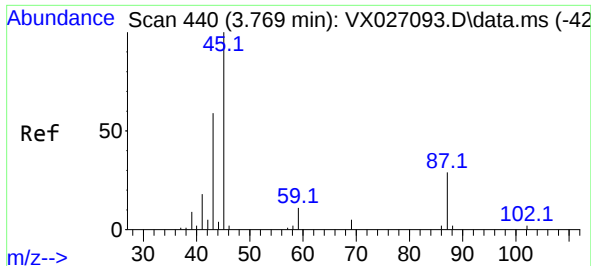
84 100

49 77.9 91.2 136.8#

51 0.0 27.6 41.4#

86 41.9 46.4 69.6#

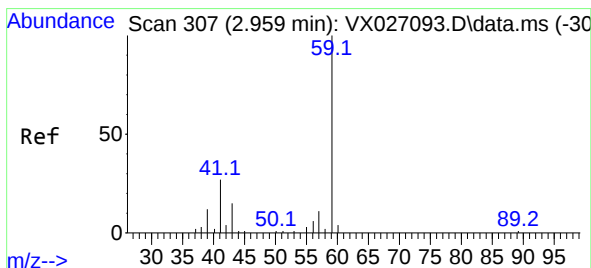
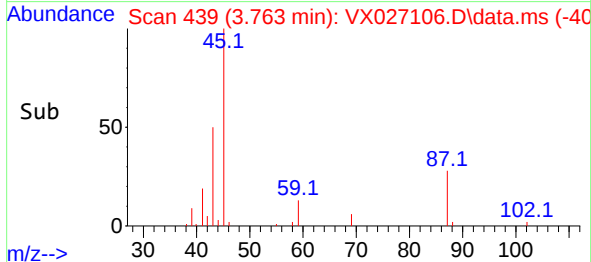
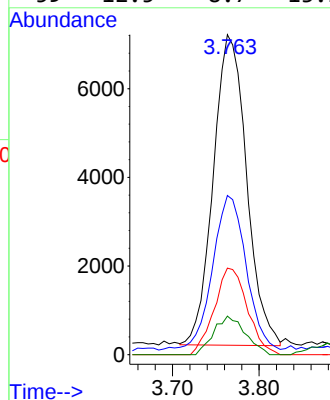
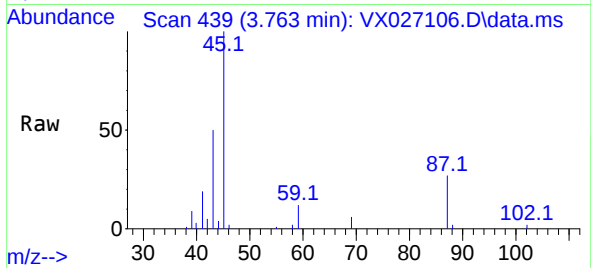




#20
Diisopropyl ether
Concen: 6.148 ug/l
RT: 3.763 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

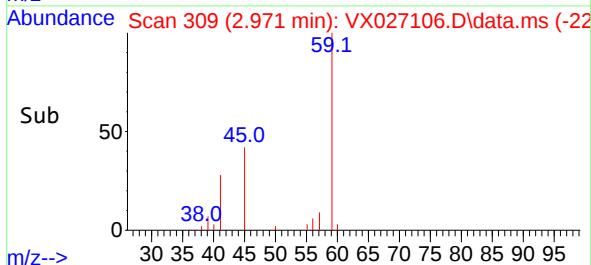
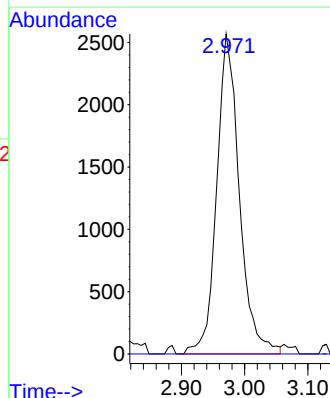
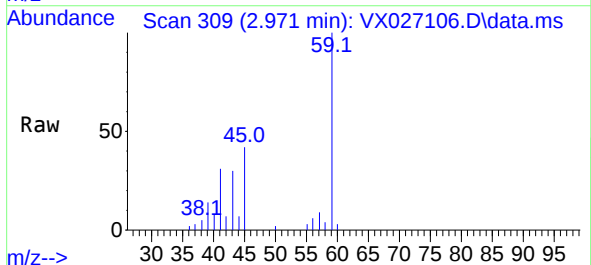
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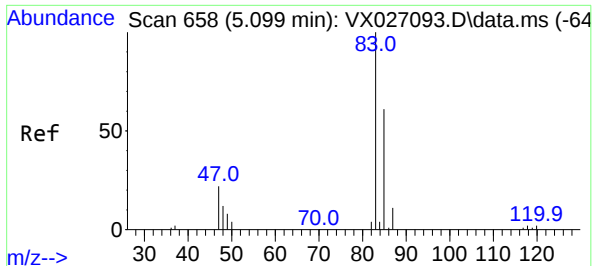
Tgt Ion:	45	Resp:	18705
Ion	Ratio	Lower	Upper
45	100		
43	49.8	55.5	83.3#
87	28.0	23.1	34.7
59	12.5	8.7	13.1



#23
tert-Butyl Alcohol
Concen: 29.444 ug/l
RT: 2.971 min Scan# 309
Delta R.T. 0.012 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion:	59	Resp:	6380
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 1.118 ug/l

RT: 5.105 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

Instrument :

MSVOA_X

ClientSampleId :

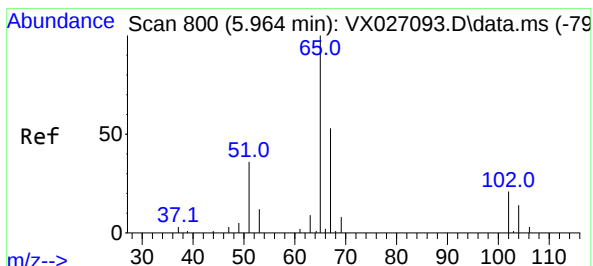
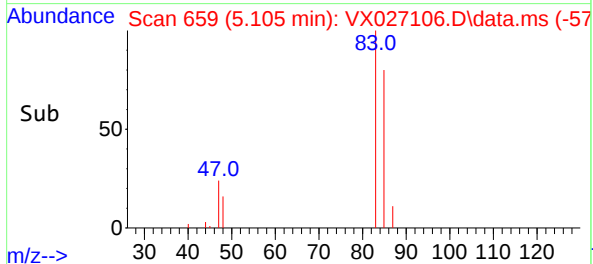
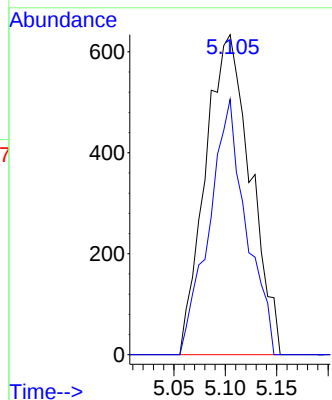
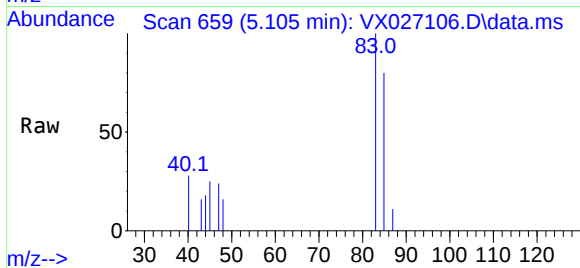
EFF-WW

Tgt Ion: 83 Resp: 1941

Ion Ratio Lower Upper

83 100

85 79.8 48.4 72.6#



#27

1,2-Dichloroethane-d4

Concen: 30.640 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.000 min

Lab File: VX027106.D

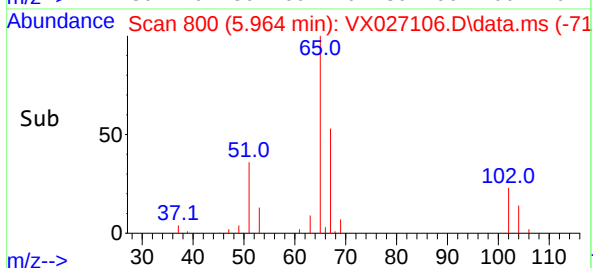
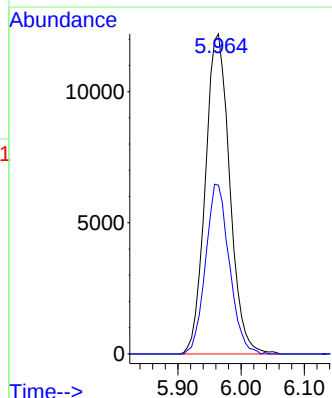
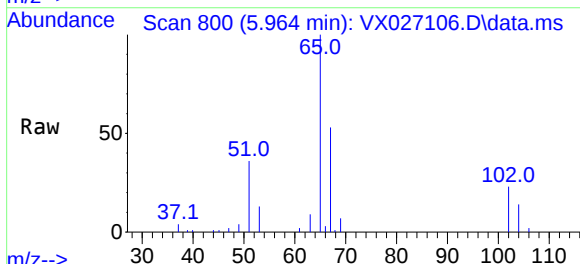
Acq: 18 Feb 2022 13:43

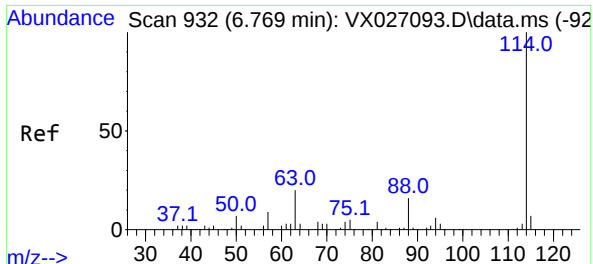
Tgt Ion: 65 Resp: 32732

Ion Ratio Lower Upper

65 100

67 51.7 41.4 62.2

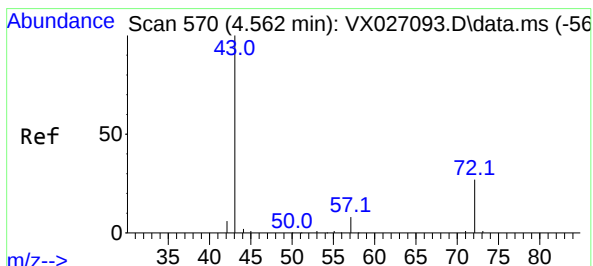
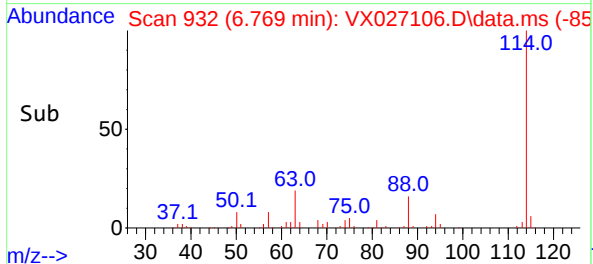
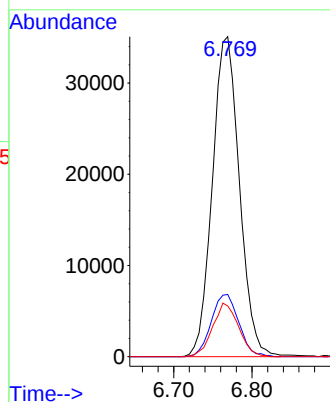
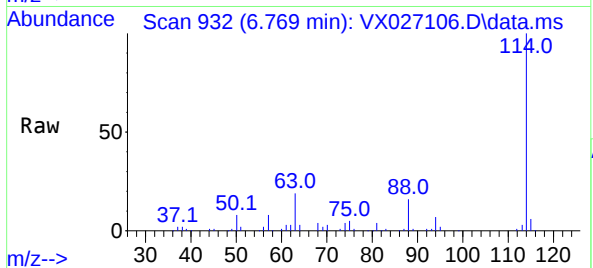




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

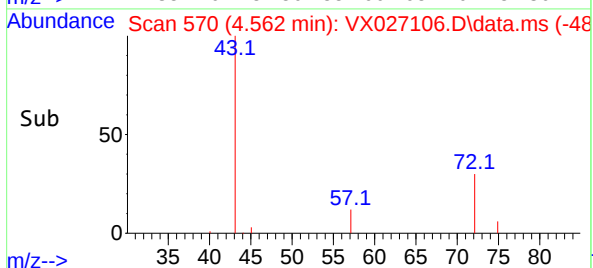
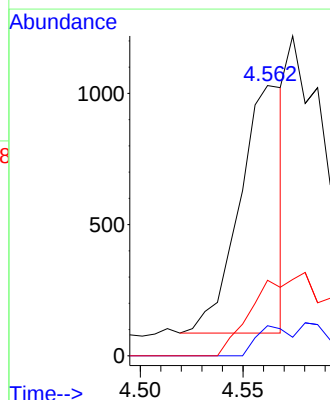
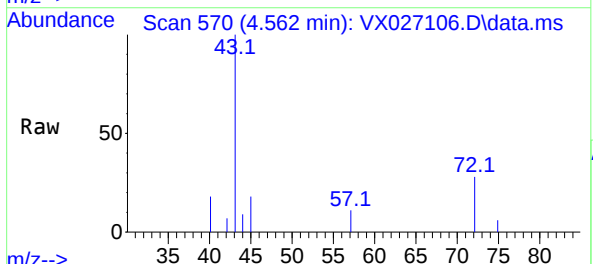
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

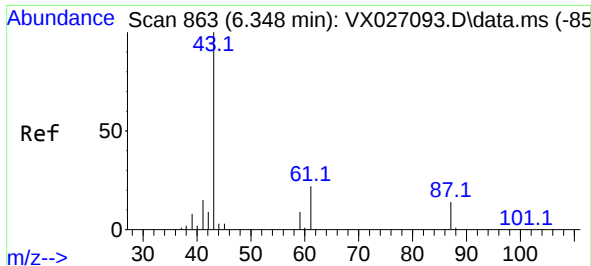
Tgt Ion:114 Resp: 84253
Ion Ratio Lower Upper
114 100
63 19.7 16.2 24.2
88 16.1 12.7 19.1



#30
2-Butanone
Concen: 1.747 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion: 43 Resp: 1404
Ion Ratio Lower Upper
43 100
57 9.3 6.6 9.8
72 24.5 21.0 31.6

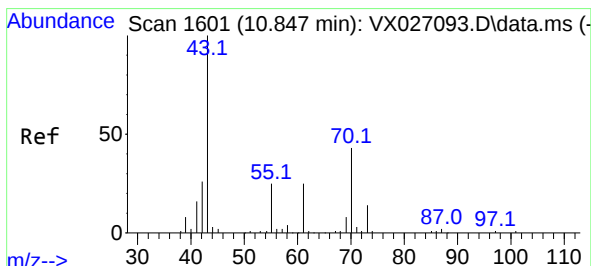
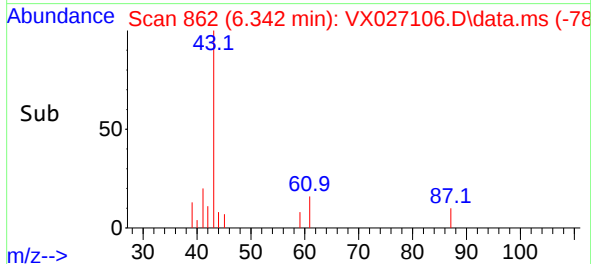
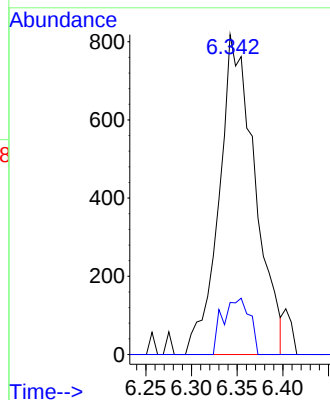
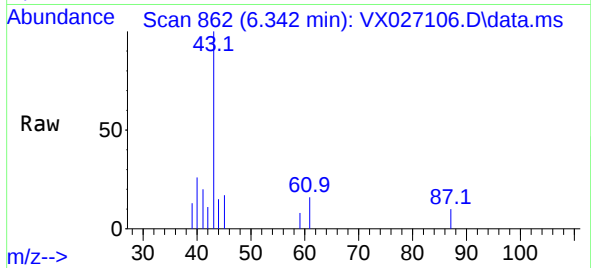




#44
Isopropyl Acetate
Concen: 0.939 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.006 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

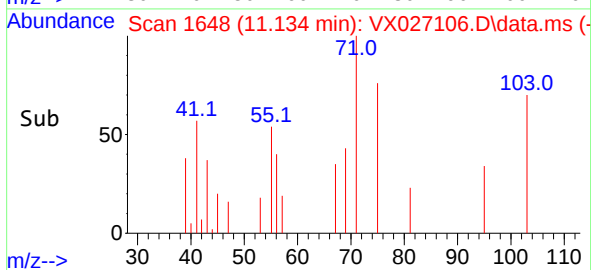
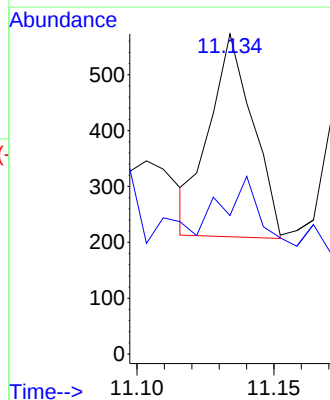
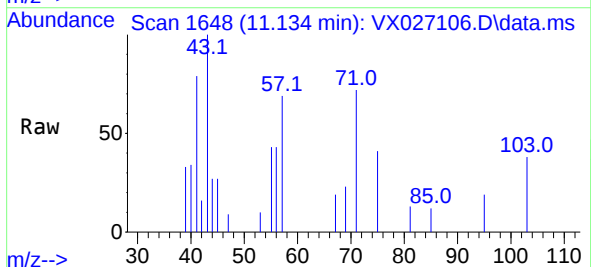
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

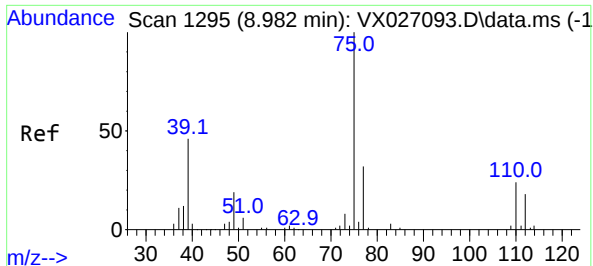
Tgt Ion: 43 Resp: 2232
Ion Ratio Lower Upper
43 100
61 13.1 16.4 24.6#



#47
n-amyl Acetate
Concen: 0.211 ug/l
RT: 11.134 min Scan# 1648
Delta R.T. 0.286 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion: 43 Resp: 398
Ion Ratio Lower Upper
43 100
55 29.1 19.7 29.5





#48

t-1,3-Dichloropropene

Concen: 6.681 ug/l

RT: 8.555 min Scan# 11

Delta R.T. -0.427 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

Instrument :

MSVOA_X

ClientSampleId :

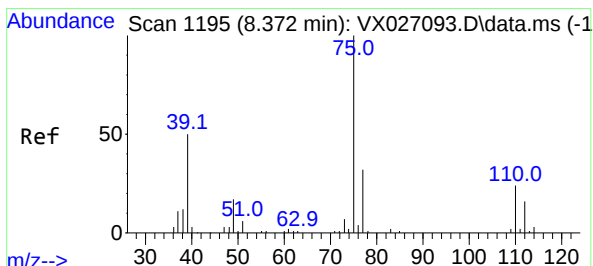
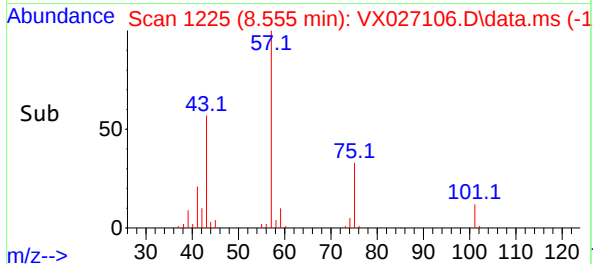
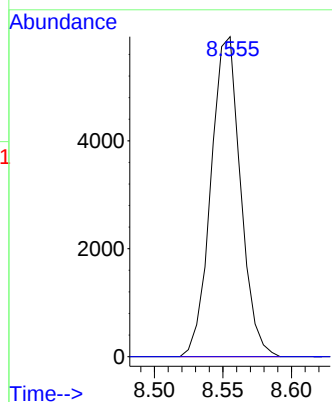
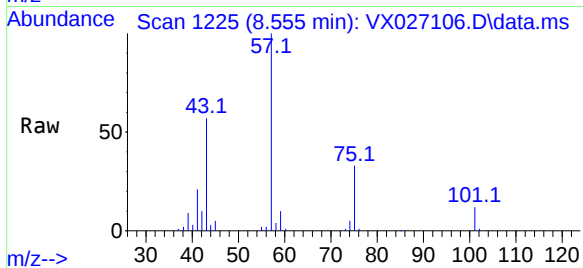
EFF-WW

Tgt Ion: 75 Resp: 8905

Ion Ratio Lower Upper

75 100

77 0.0 25.9 38.9#



#49

cis-1,3-Dichloropropene

Concen: 5.898 ug/l

RT: 8.555 min Scan# 1225

Delta R.T. 0.183 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

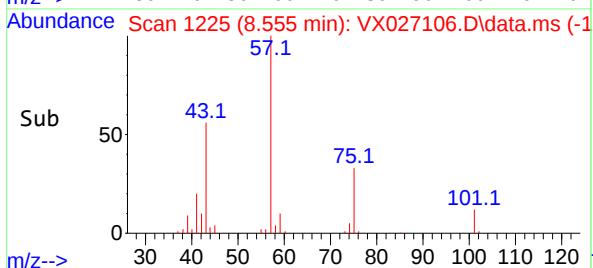
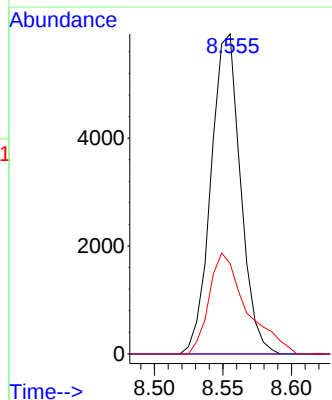
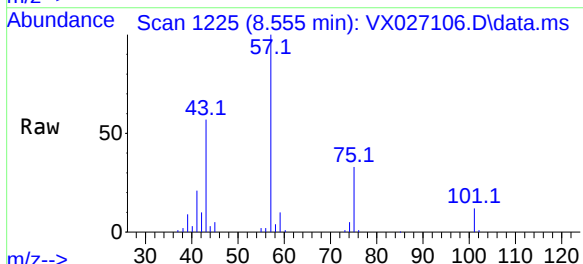
Tgt Ion: 75 Resp: 8905

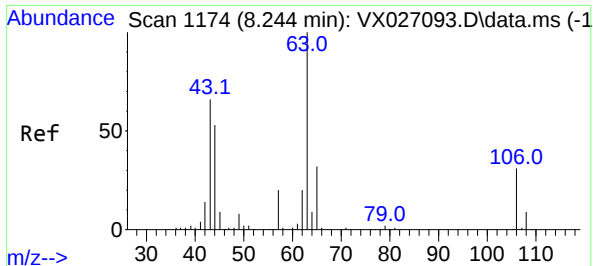
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#

39 28.2 40.1 60.1#





#55

2-Chloroethyl vinyl ether

Concen: 0.785 ug/l

RT: 8.250 min Scan# 1175

Delta R.T. 0.006 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

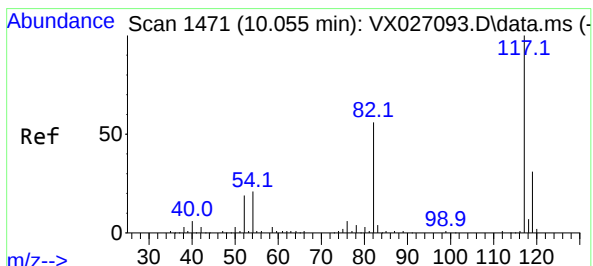
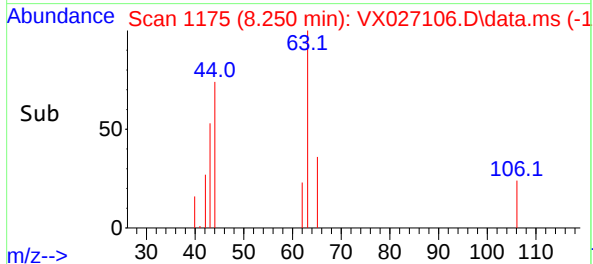
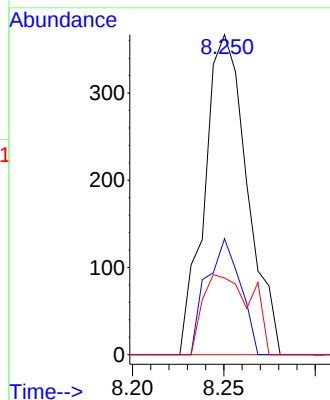
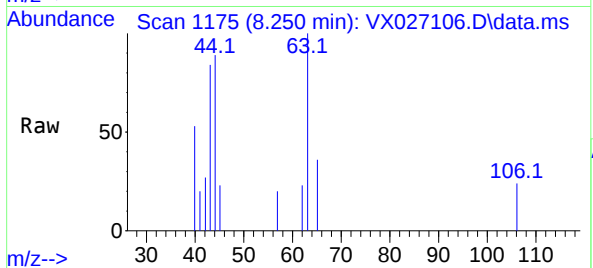
Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

Tgt Ion: 63	Resp:	596
Ion	Ratio	Lower Upper
63	100	
65	28.9	25.9 38.9
106	23.2	24.2 36.4



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

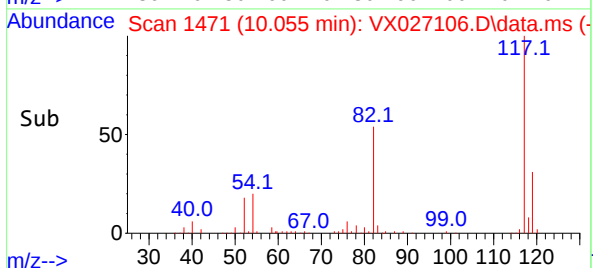
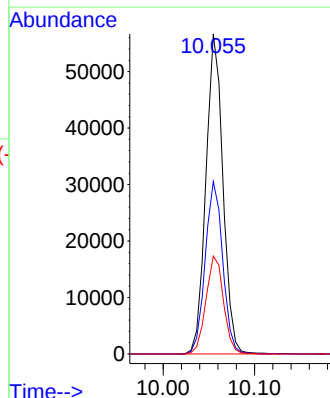
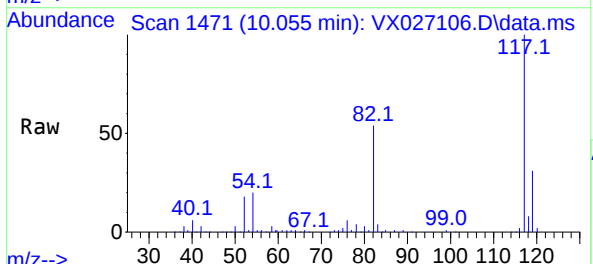
RT: 10.055 min Scan# 1471

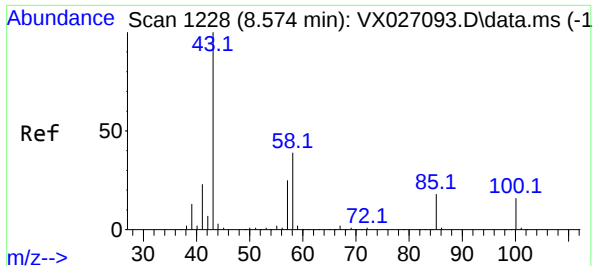
Delta R.T. -0.000 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

Tgt Ion: 117	Resp:	73319
Ion	Ratio	Lower Upper
117	100	
82	55.1	44.1 66.1
119	31.5	25.4 38.0





#58

4-Methyl-2-Pentanone

Concen: 14.857 ug/l

RT: 8.549 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

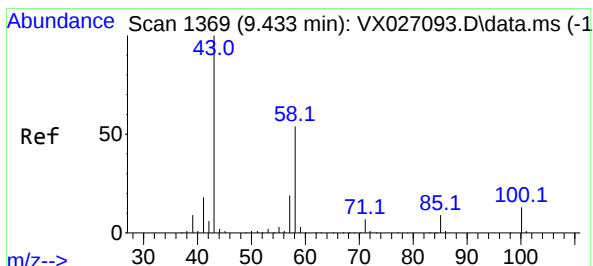
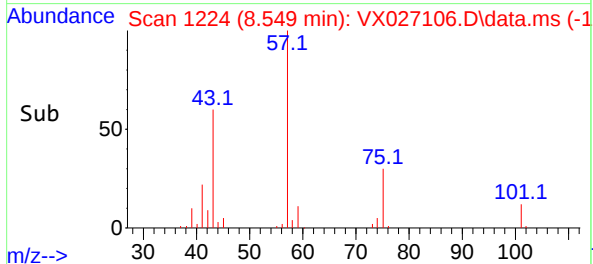
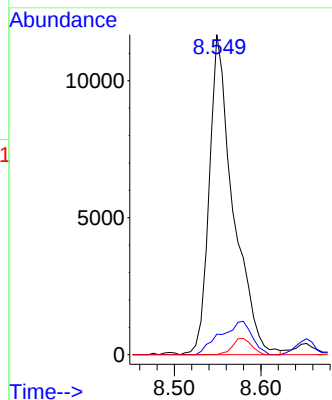
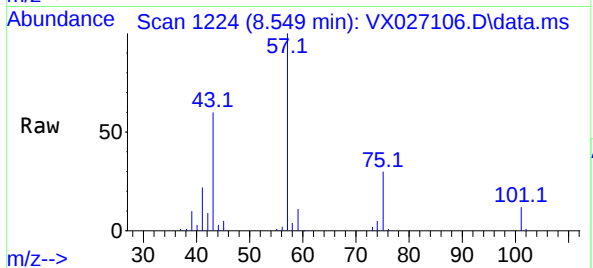
Tgt Ion: 43 Resp: 22405

Ion Ratio Lower Upper

43 100

58 13.8 31.2 46.8#

85 4.1 14.8 22.2#



#59

2-Hexanone

Concen: 3.566 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX027106.D

Acq: 18 Feb 2022 13:43

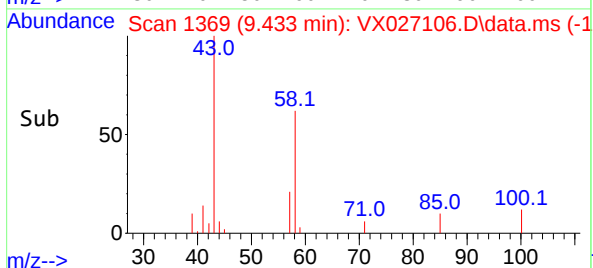
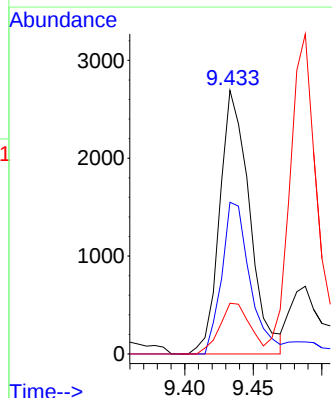
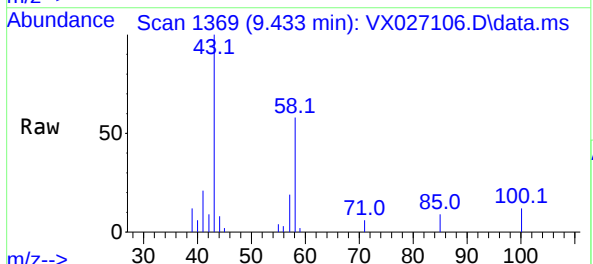
Tgt Ion: 43 Resp: 4085

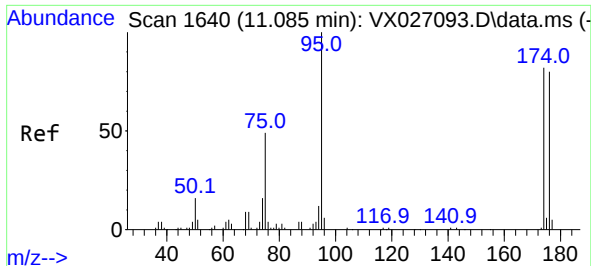
Ion Ratio Lower Upper

43 100

58 54.4 43.4 65.2

57 19.7 15.4 23.2

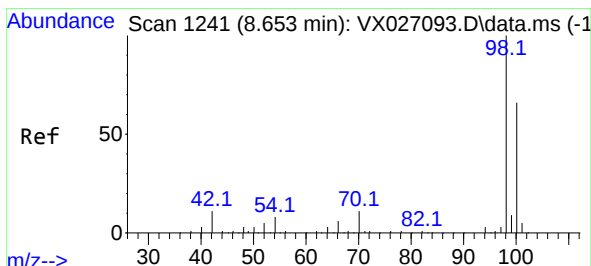
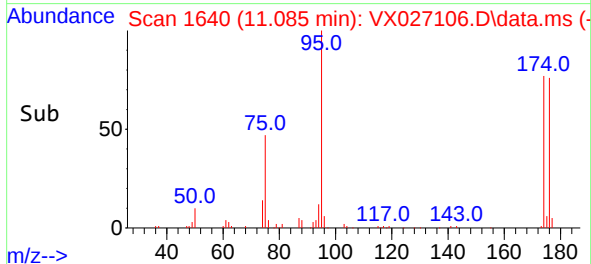
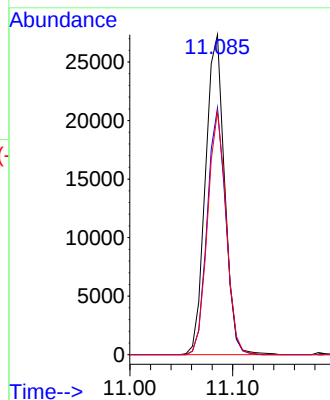
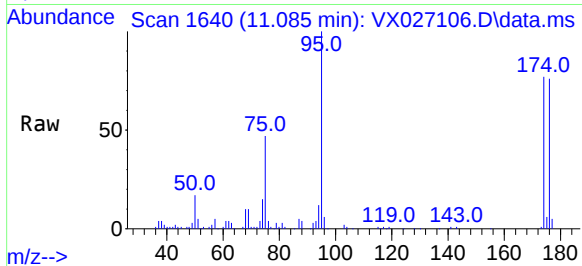




#60
4-Bromofluorobenzene
Concen: 29.685 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

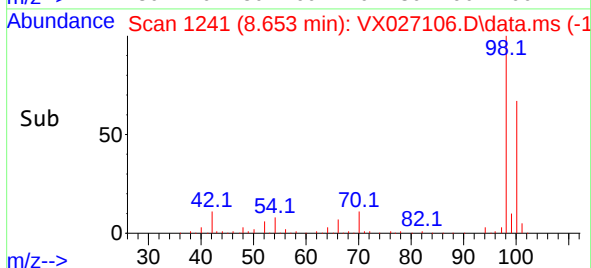
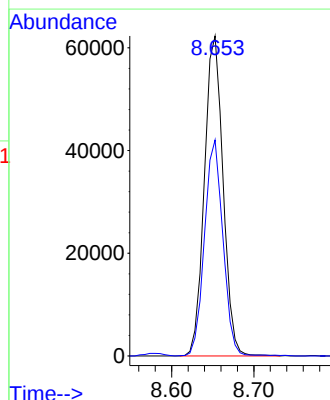
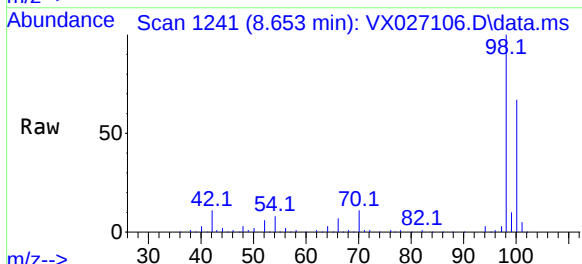
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

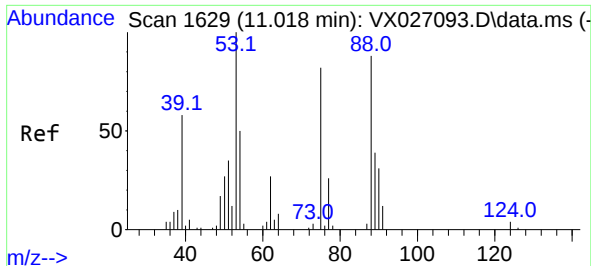
Tgt Ion: 95 Resp: 35393
Ion Ratio Lower Upper
95 100
174 74.8 61.8 92.8
176 73.7 59.4 89.2



#63
Toluene-d8
Concen: 29.924 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion: 98 Resp: 98365
Ion Ratio Lower Upper
98 100
100 66.4 52.6 78.8

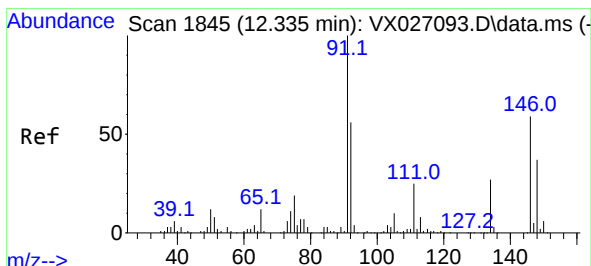
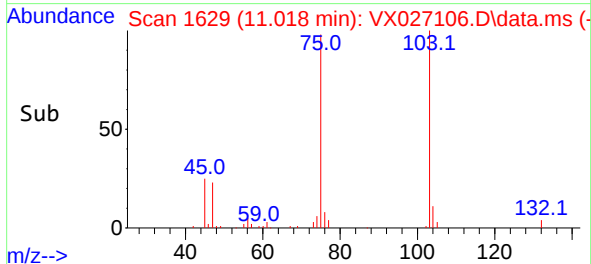
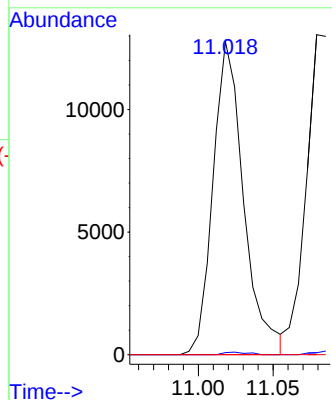
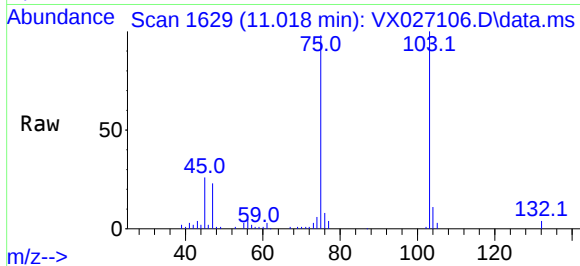




#77
t-1,4-Dichloro-2-butene
Concen: 47.474 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

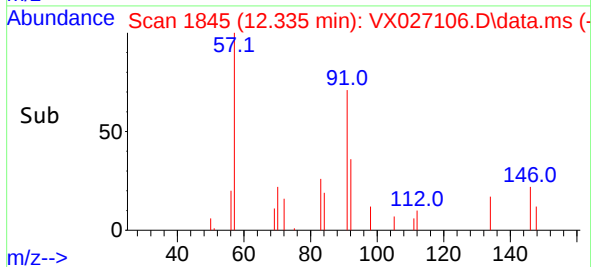
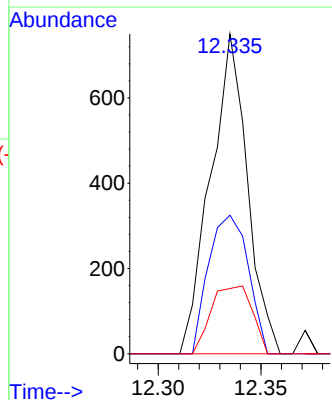
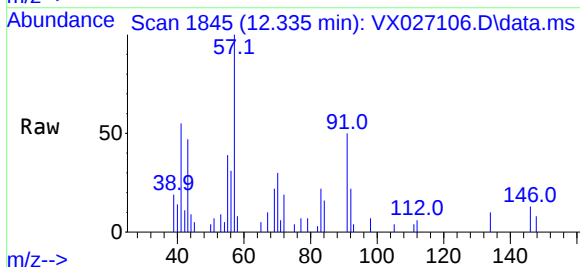
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

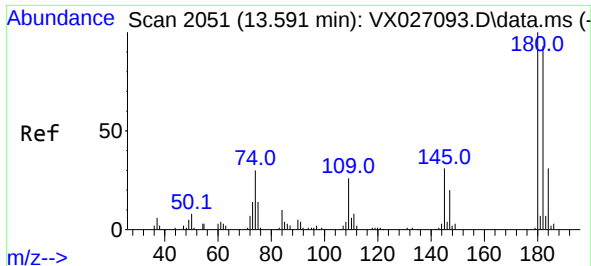
Tgt Ion: 75 Resp: 18193
Ion Ratio Lower Upper
75 100
53 0.7 60.8 182.3#
89 0.0 23.8 71.2#



#85
n-Butylbenzene
Concen: 0.291 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion: 91 Resp: 934
Ion Ratio Lower Upper
91 100
92 46.8 0.0 111.2
134 23.7 0.0 53.8

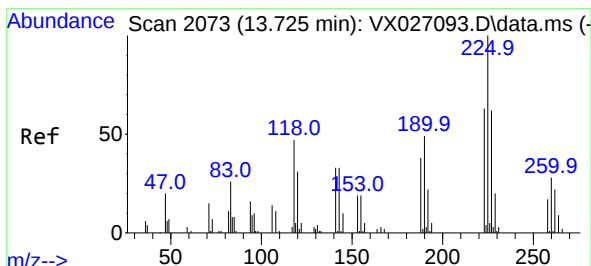
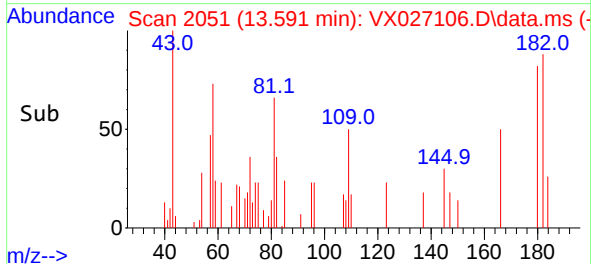
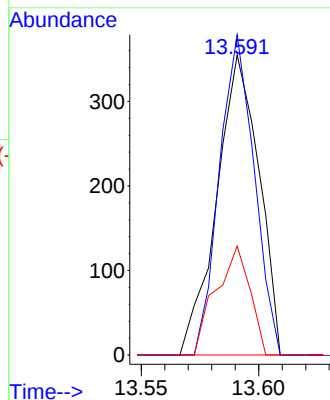
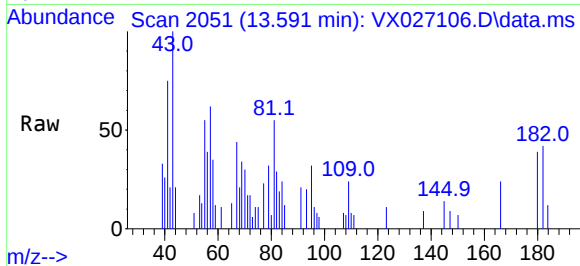




#89
1,2,4-Trichlorobenzene
Concen: 0.353 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

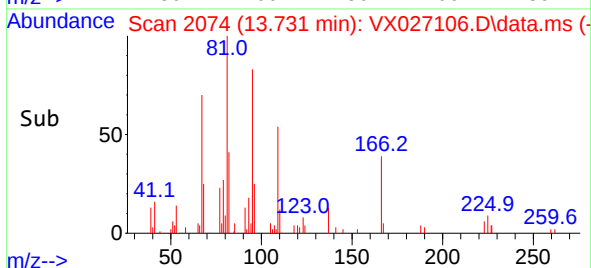
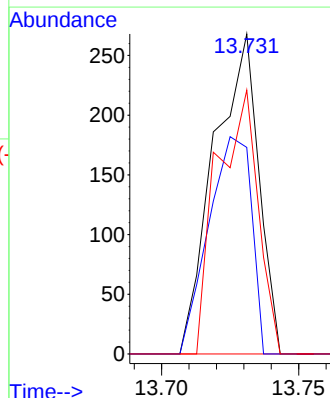
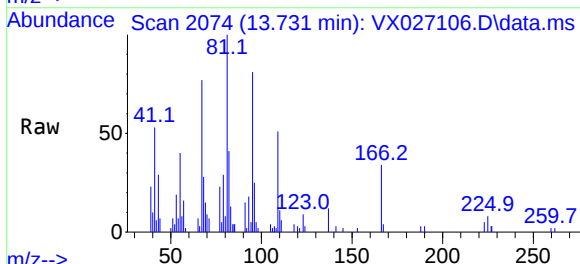
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

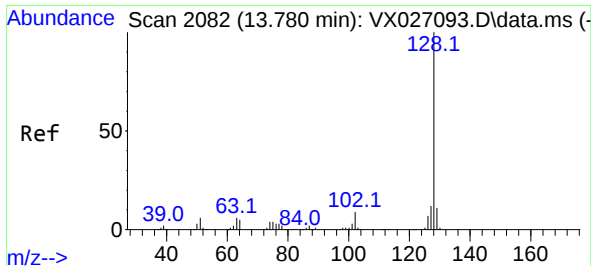
Tgt Ion:180 Resp: 442
Ion Ratio Lower Upper
180 100
182 88.2 76.1 114.1
145 29.2 26.0 39.0



#90
Hexachlorobutadiene
Concen: 0.577 ug/l
RT: 13.731 min Scan# 2074
Delta R.T. 0.006 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion:225 Resp: 302
Ion Ratio Lower Upper
225 100
223 65.6 0.0 130.4
227 75.8 0.0 127.4

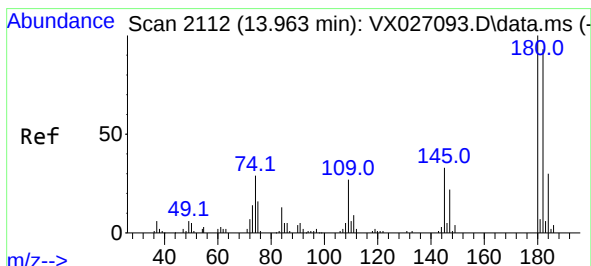
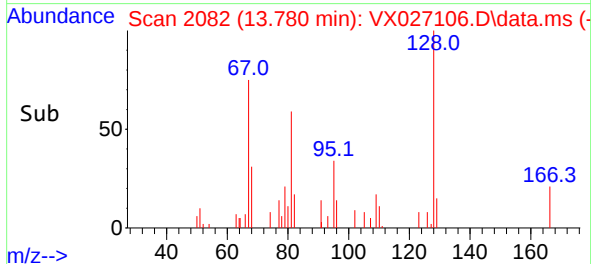
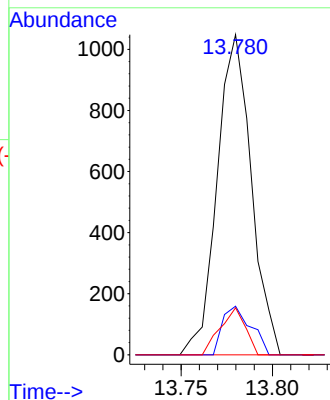
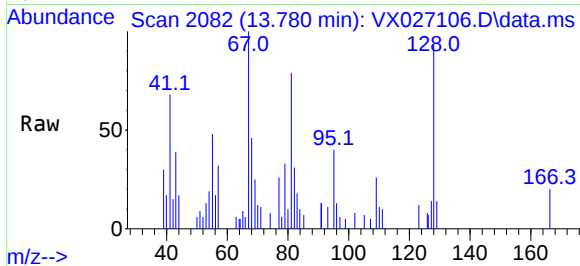




#91
Naphthalene
Concen: 0.309 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Tgt Ion:	128	Resp:	1361
Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.9	14.9
129	10.8	8.8	13.2



#92
1,2,3-Trichlorobenzene
Concen: 0.349 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. -0.372 min
Lab File: VX027106.D
Acq: 18 Feb 2022 13:43

Tgt Ion:	180	Resp:	442
Ion	Ratio	Lower	Upper
180	100		
182	88.2	0.0	190.6
145	29.2	0.0	67.2

