

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071523\
 Data File : VX036558.D
 Acq On : 14 Jul 2023 15:37
 Operator : JC/MD
 Sample : 03642-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Jul 17 01:29:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

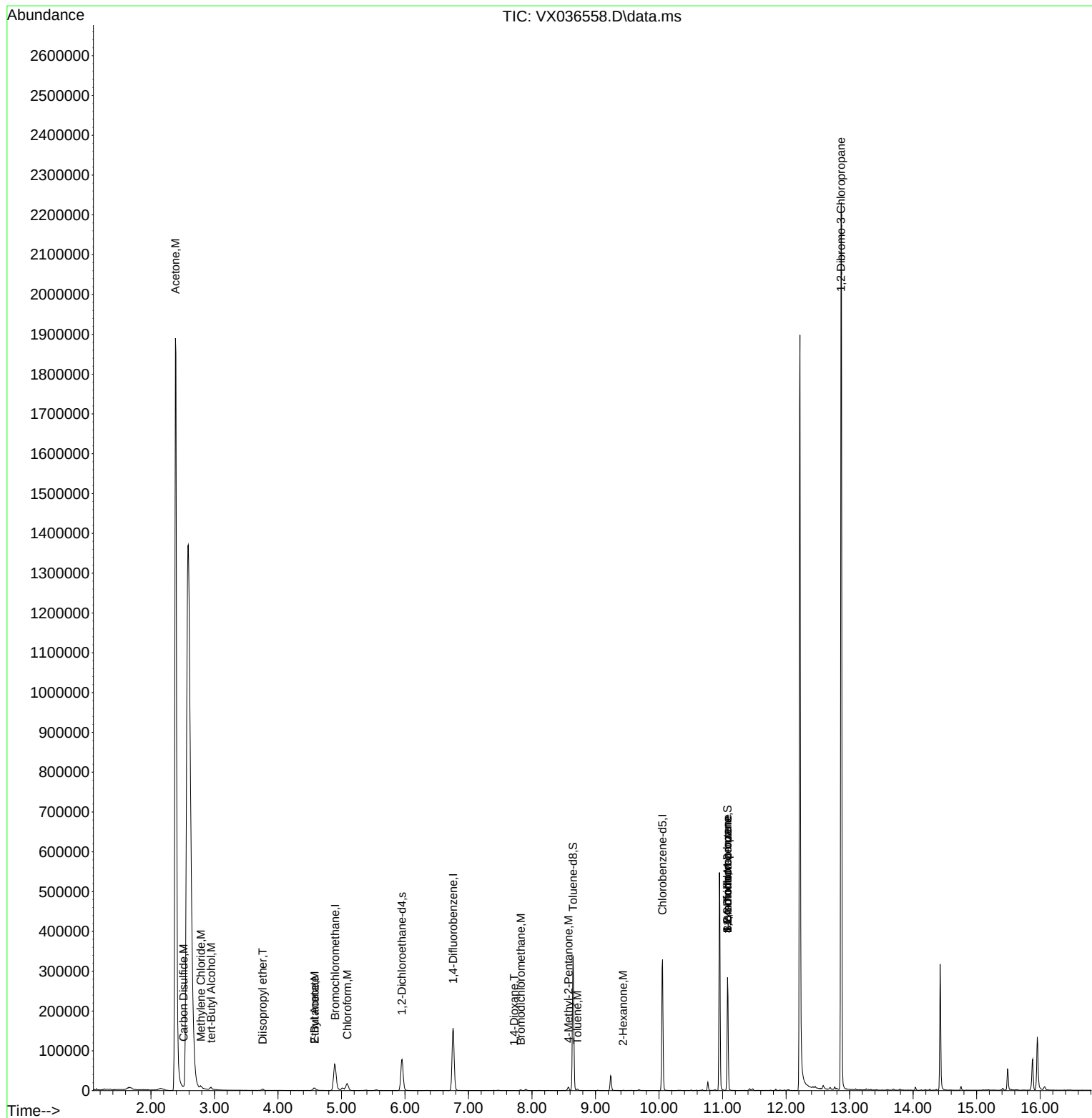
Internal Standards						
1) Bromochloromethane	4.897	128	28668	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	160710	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	145323	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	73047	30.700	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.333%
60) 4-Bromofluorobenzene	11.079	95	73231	31.066	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	103.567%
63) Toluene-d8	8.646	98	196711	29.416	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.067%
Target Compounds						
					Qvalue	
15) Acetone	2.385	58	751854	2402.571	ug/l	95
16) Carbon Disulfide	2.513	76	1821	0.447	ug/l	96
18) Methylene Chloride	2.788	84	2265	1.121	ug/l	91
20) Diisopropyl ether	3.757	45	3531	0.582	ug/l #	76
23) tert-Butyl Alcohol	2.946	59	577	1.124	ug/l #	1
25) Chloroform	5.092	83	19712	5.392	ug/l	91
30) 2-Butanone	4.574	43	3825	2.507	ug/l #	79
41) Bromodichloromethane	7.823	83	680	0.255	ug/l #	80
43) Ethyl Acetate	4.574	43	3825	1.288	ug/l	94
45) 1,4-Dioxane	7.720	88	65	1.209	ug/l #	1
56) Bromoform	11.079	173	807	0.577	ug/l #	1
58) 4-Methyl-2-Pentanone	8.573	43	6354	2.114	ug/l #	89
59) 2-Hexanone	9.433	43	690	0.302	ug/l #	65
62) Toluene	8.714	91	2249	0.276	ug/l	97
72) 1,2,3-Trichloropropane	11.079	75	37849	13.105	ug/l	38
77) t-1,4-Dichloro-2-butene	11.079	75	37849	39.907	ug/l #	7
88) 1,2-Dibromo-3-Chloropr...	12.865	75	55524	79.226	ug/l #	4

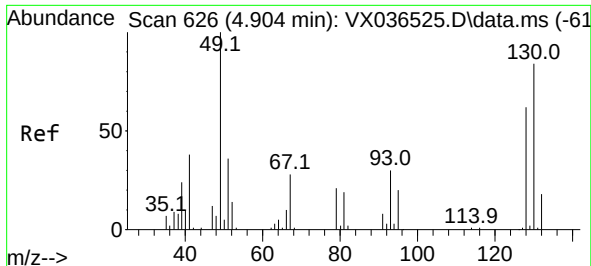
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 14 04:32:22 2023
Response via : Initial Calibration

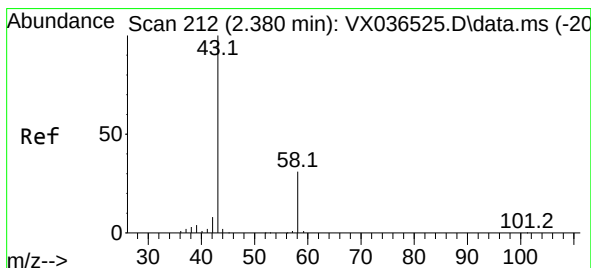
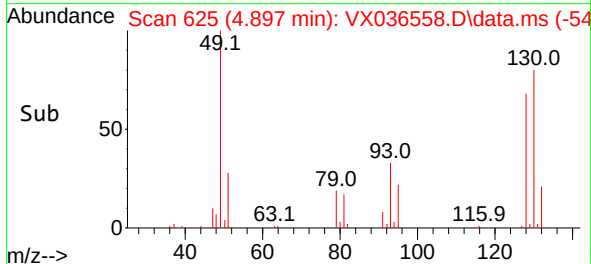
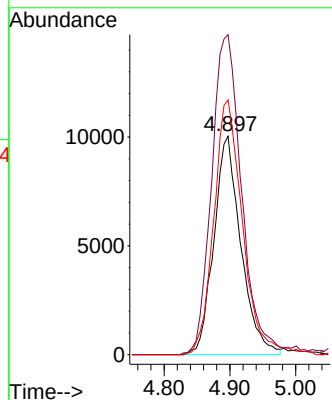
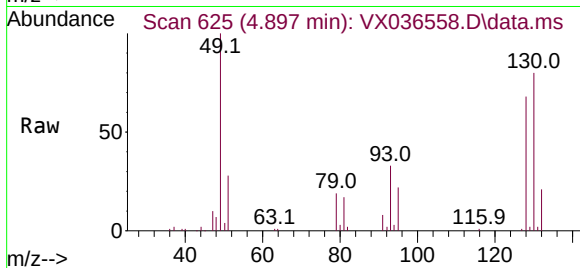




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.007 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

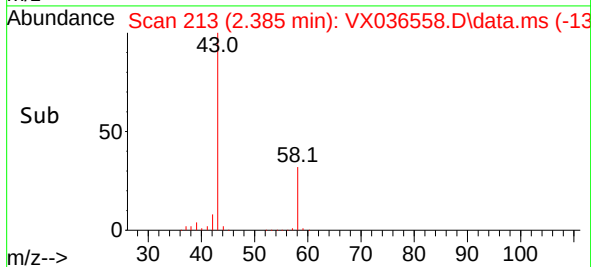
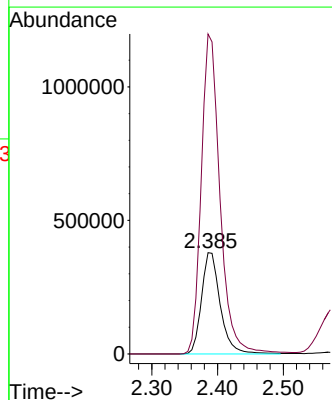
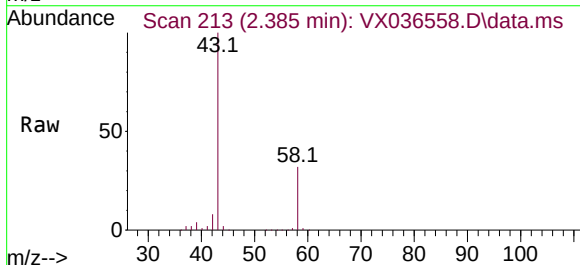
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

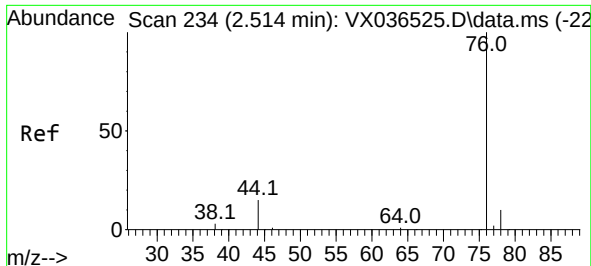
Tgt Ion:128 Resp: 28668
Ion Ratio Lower Upper
128 100
49 162.7 0.0 406.3
130 123.3 0.0 328.0



#15
Acetone
Concen: 2402.571 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

Tgt Ion: 58 Resp: 751854
Ion Ratio Lower Upper
58 100
43 315.7 261.0 391.4

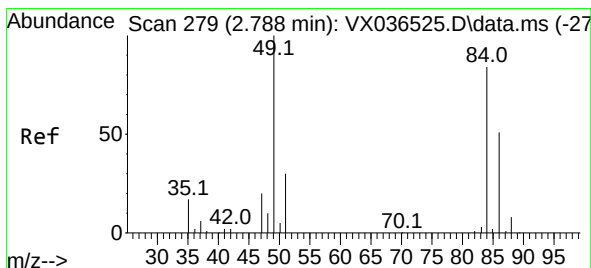
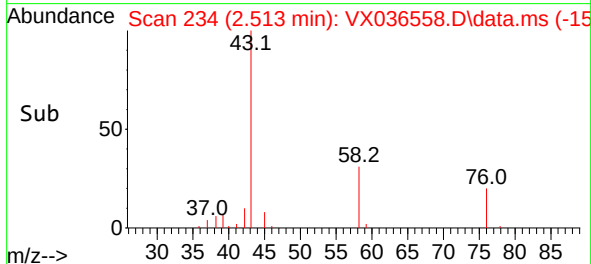
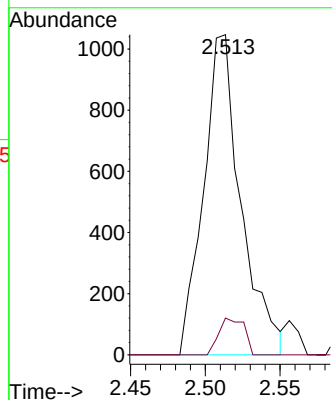
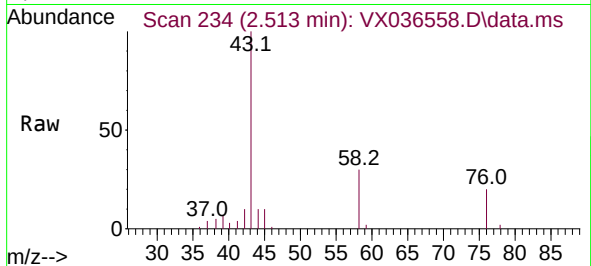




#16
Carbon Disulfide
Concen: 0.447 ug/l
RT: 2.513 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

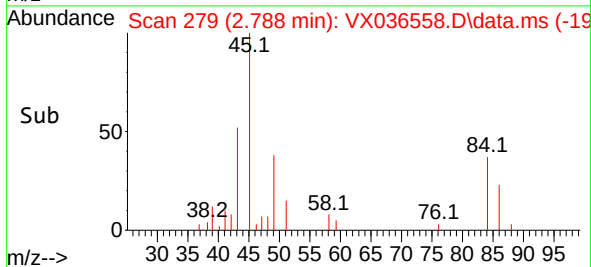
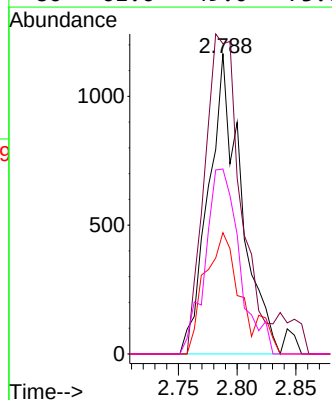
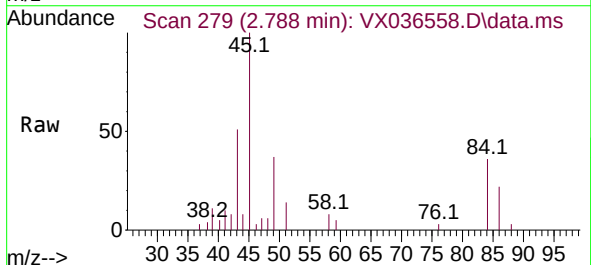
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

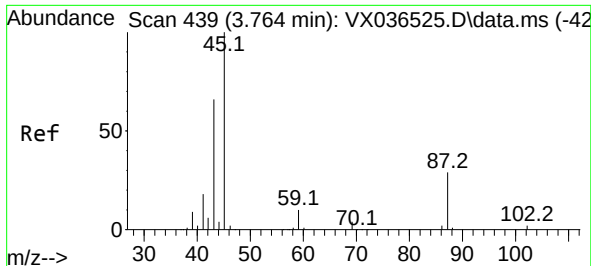
Tgt Ion: 76 Resp: 1821
Ion Ratio Lower Upper
76 100
78 11.5 8.0 12.0



#18
Methylene Chloride
Concen: 1.121 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

Tgt Ion: 84 Resp: 2265
Ion Ratio Lower Upper
84 100
49 103.3 95.4 143.0
51 40.4 28.3 42.5
86 61.6 49.0 73.6

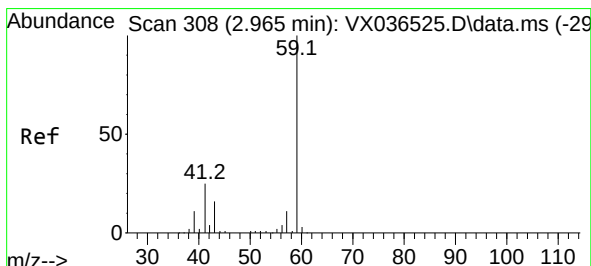
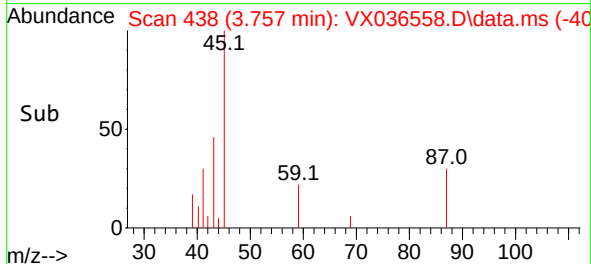
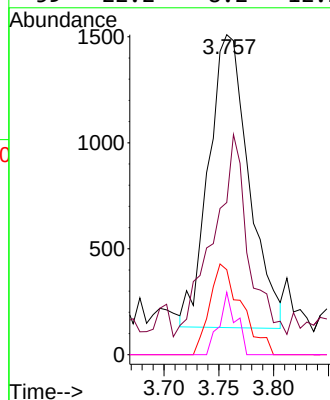
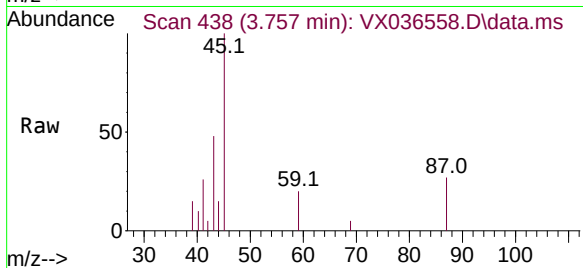




#20
Diisopropyl ether
Concen: 0.582 ug/l
RT: 3.757 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

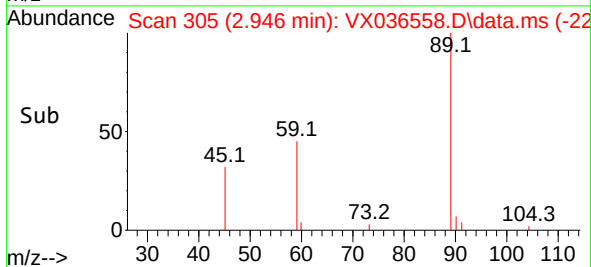
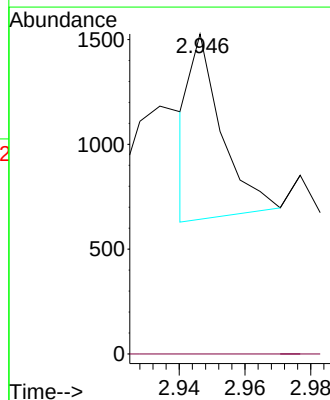
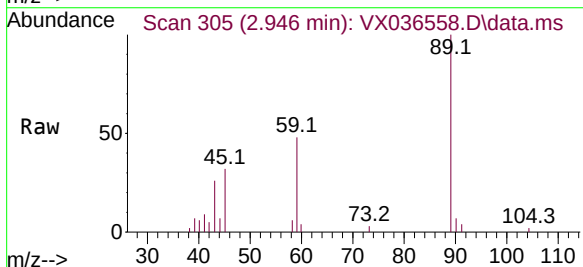
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

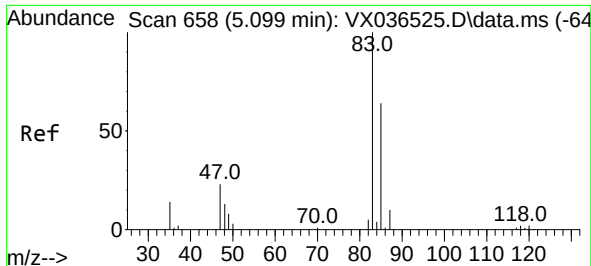
Tgt Ion:	45	Resp:	3531
Ion	Ratio	Lower	Upper
45	100		
43	43.7	55.8	83.6#
87	30.2	23.0	34.4
59	22.2	8.2	12.2#



#23
tert-Butyl Alcohol
Concen: 1.124 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.019 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

Tgt Ion:	59	Resp:	577
Ion	Ratio	Lower	Upper
59	100		
52	0.0	142.6	213.8#





#25

Chloroform

Concen: 5.392 ug/l

RT: 5.092 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX036558.D

Acq: 14 Jul 2023 15:37

Instrument :

MSVOA_X

ClientSampleId :

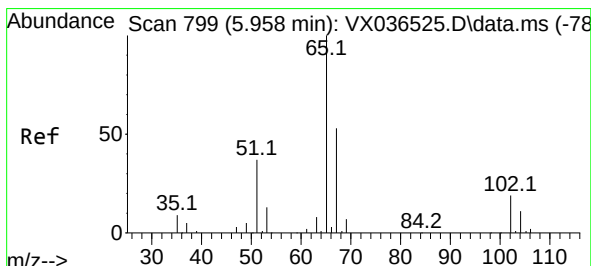
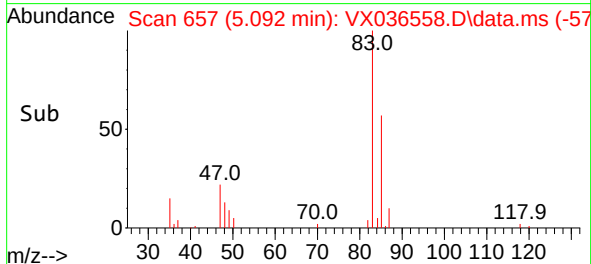
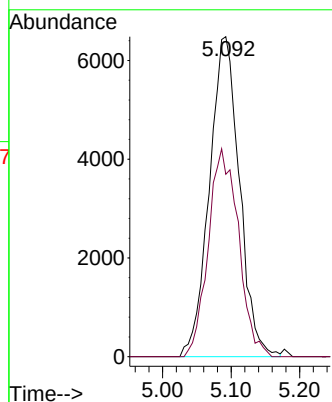
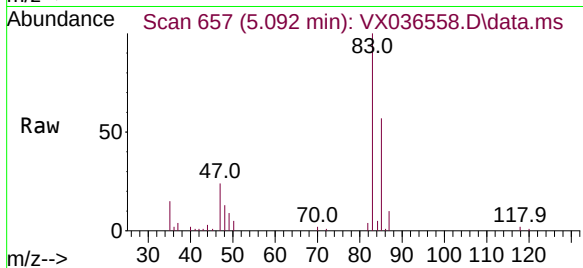
EFF-WW

Tgt Ion: 83 Resp: 19712

Ion Ratio Lower Upper

83 100

85 57.0 51.5 77.3



#27

1,2-Dichloroethane-d4

Concen: 30.700 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX036558.D

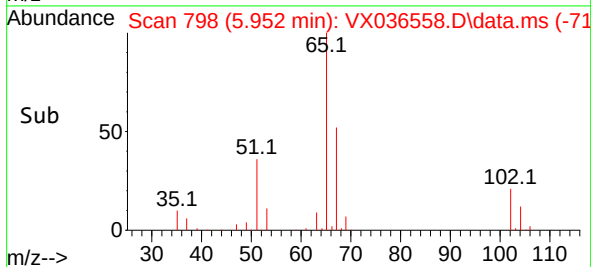
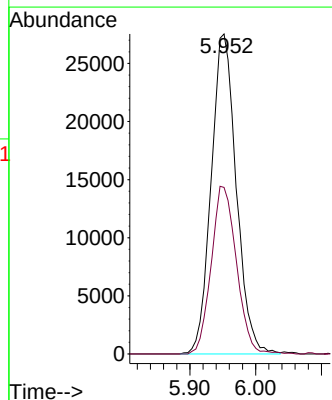
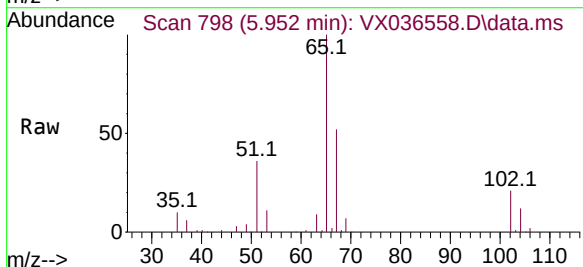
Acq: 14 Jul 2023 15:37

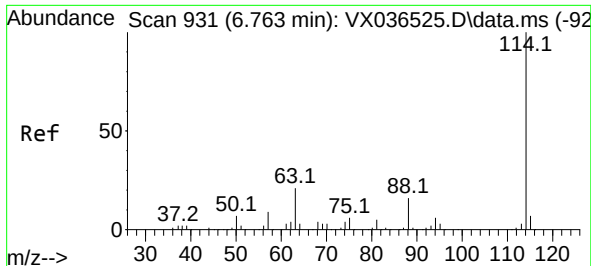
Tgt Ion: 65 Resp: 73047

Ion Ratio Lower Upper

65 100

67 52.2 42.1 63.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX036558.D

Acq: 14 Jul 2023 15:37

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

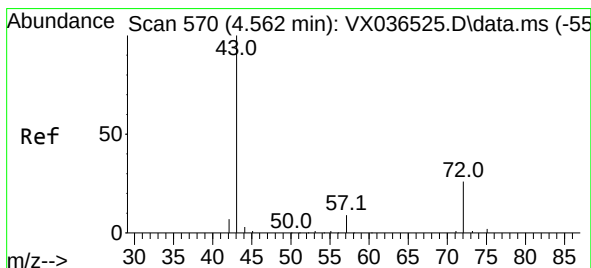
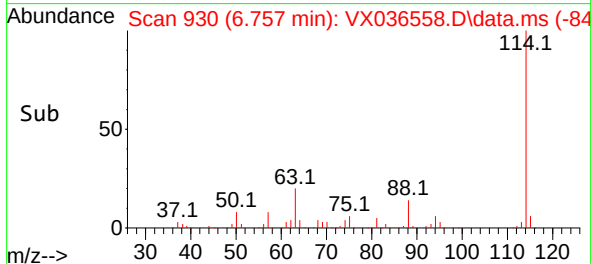
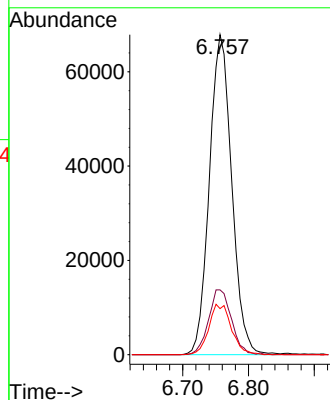
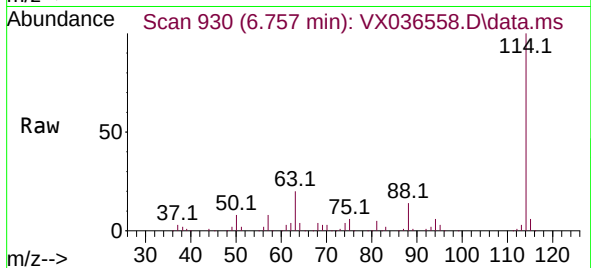
Tgt Ion:114 Resp: 160710

Ion Ratio Lower Upper

114 100

63 20.7 16.6 24.8

88 15.9 12.9 19.3



#30

2-Butanone

Concen: 2.507 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.012 min

Lab File: VX036558.D

Acq: 14 Jul 2023 15:37

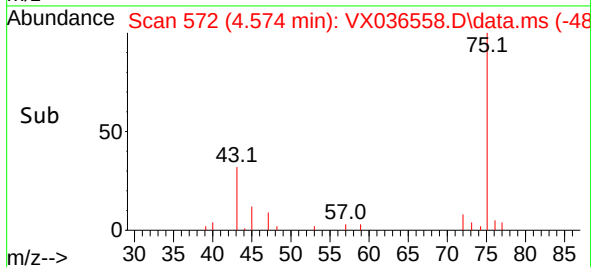
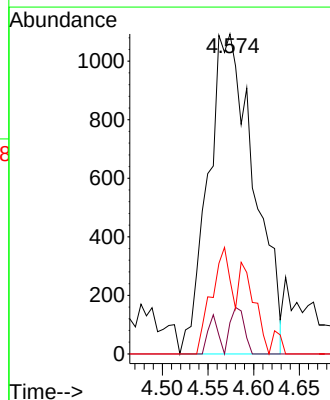
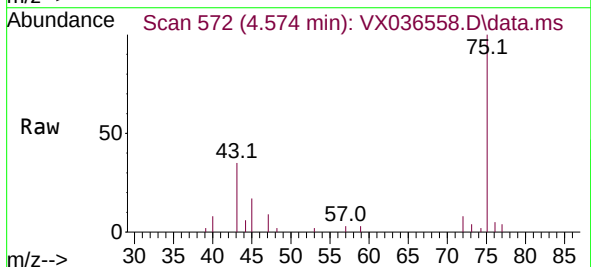
Tgt Ion: 43 Resp: 3825

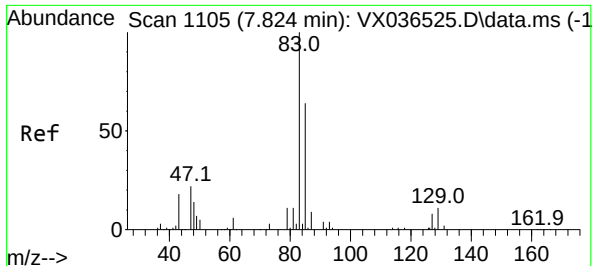
Ion Ratio Lower Upper

43 100

57 2.6 6.4 9.6#

72 15.0 21.6 32.4#

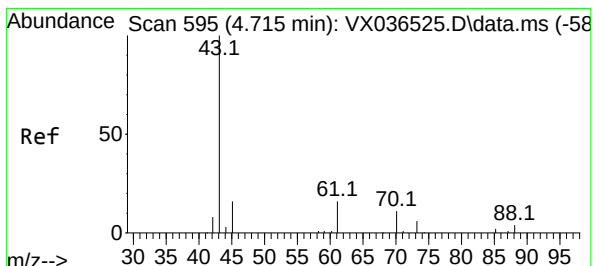
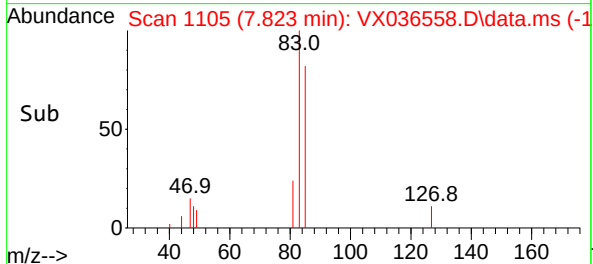
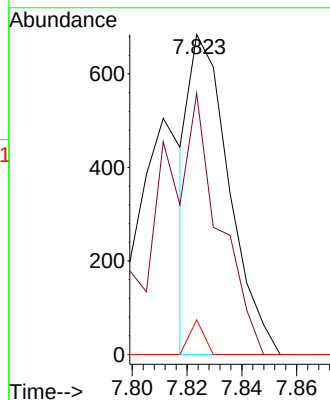
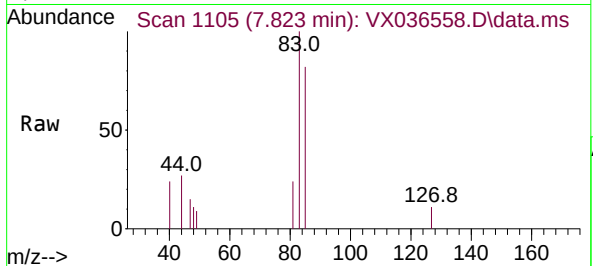




#41
Bromodichloromethane
Concen: 0.255 ug/l
RT: 7.823 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

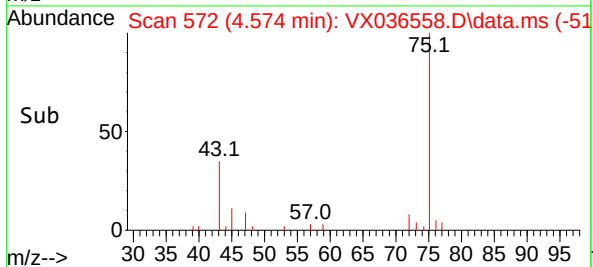
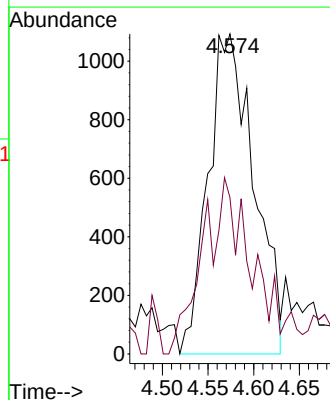
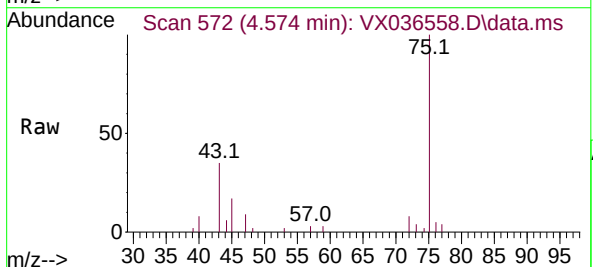
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

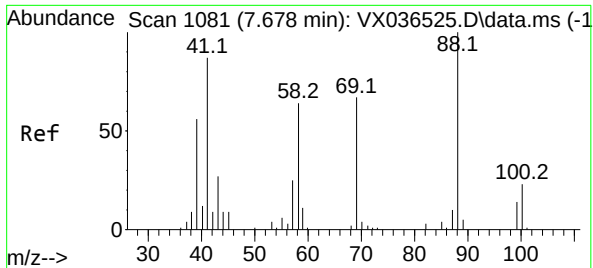
Tgt Ion: 83 Resp: 680
Ion Ratio Lower Upper
83 100
85 81.6 51.5 77.3#
127 10.8 6.4 9.6#



#43
Ethyl Acetate
Concen: 1.288 ug/l
RT: 4.574 min Scan# 572
Delta R.T. -0.141 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

Tgt Ion: 43 Resp: 3825
Ion Ratio Lower Upper
43 100
45 18.1 12.6 18.8

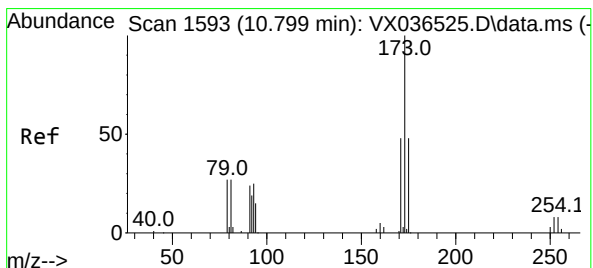
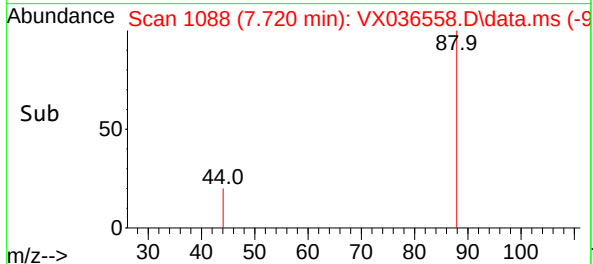
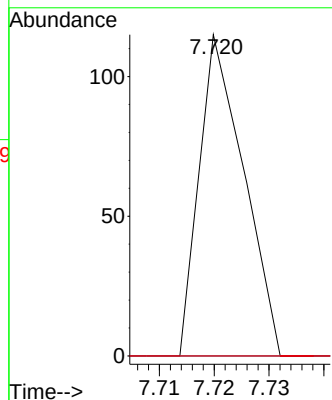
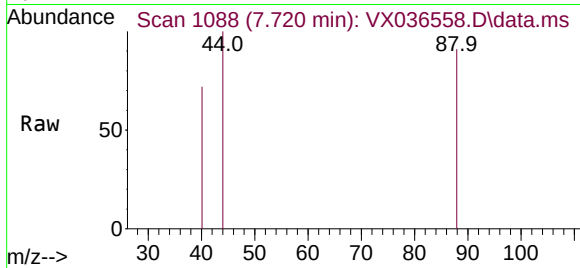




#45
1,4-Dioxane
Concen: 1.209 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. 0.042 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

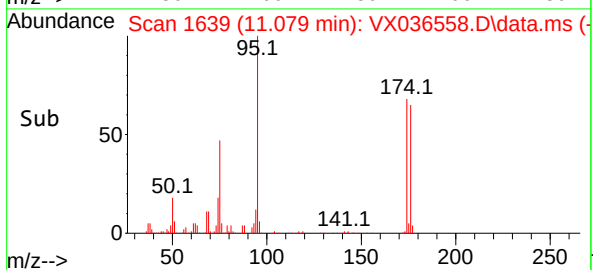
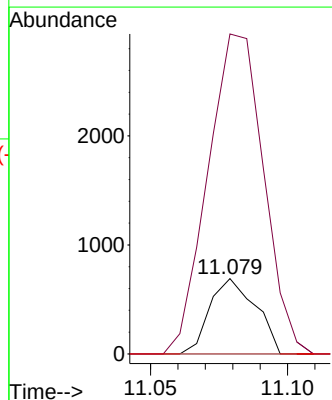
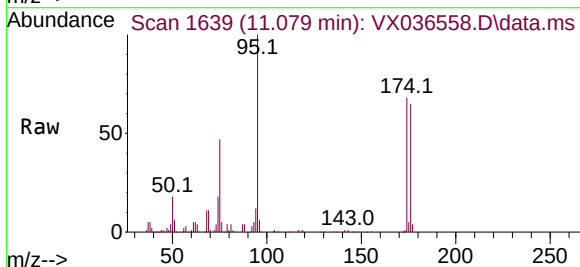
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

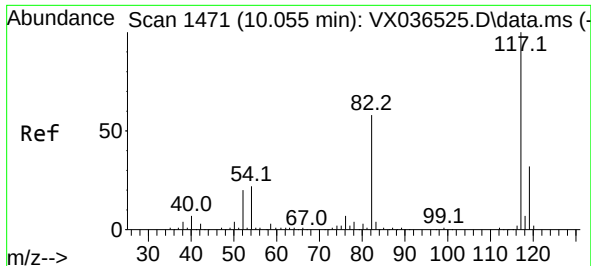
Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 103.1 297.5 446.3#
58 0.0 1.0 1.4#



#56
Bromoform
Concen: 0.577 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.280 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

Tgt Ion: 173 Resp: 807
Ion Ratio Lower Upper
173 100
175 516.0 38.1 57.1#
254 0.0 6.7 10.1#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX036558.D

Acq: 14 Jul 2023 15:37

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

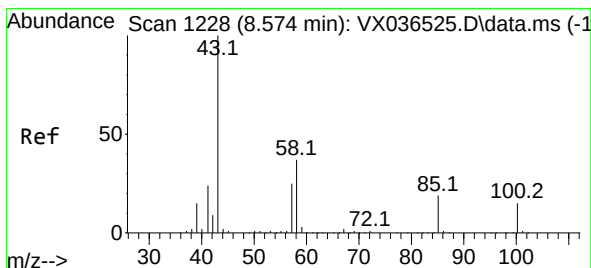
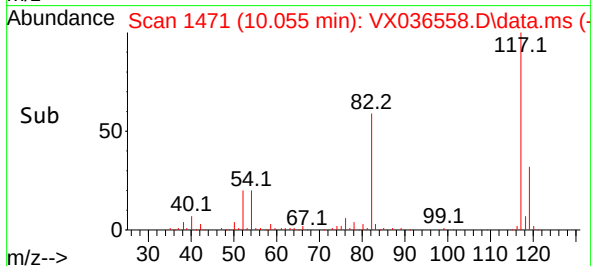
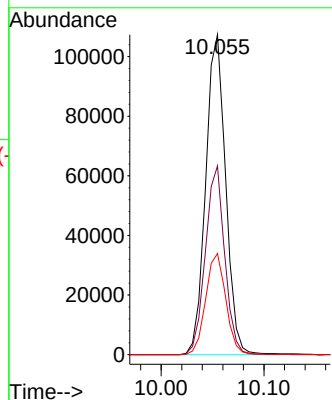
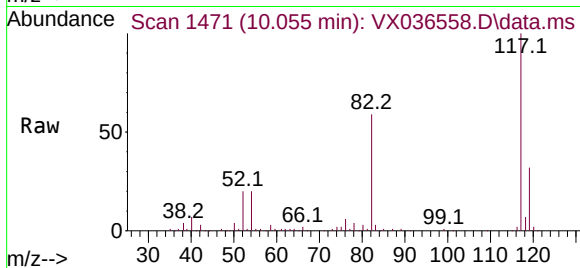
Tgt Ion:117 Resp: 145323

Ion Ratio Lower Upper

117 100

82 57.2 44.7 67.1

119 31.9 25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 2.114 ug/l

RT: 8.573 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX036558.D

Acq: 14 Jul 2023 15:37

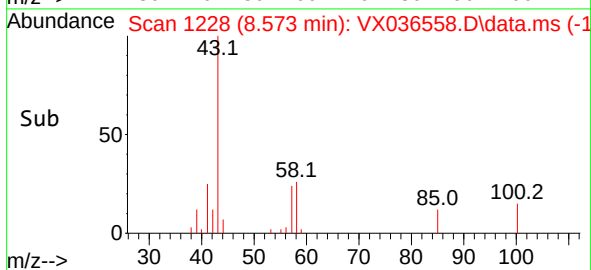
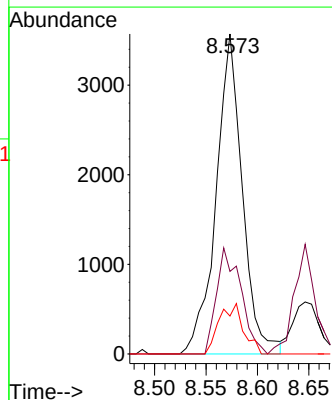
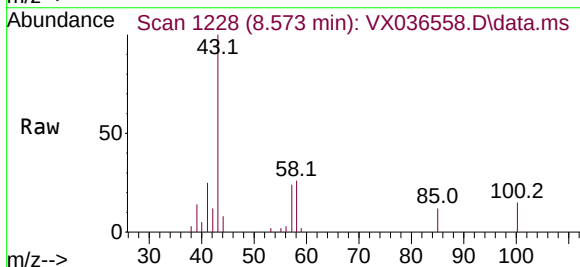
Tgt Ion: 43 Resp: 6354

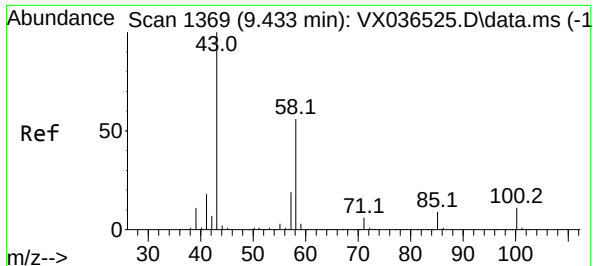
Ion Ratio Lower Upper

43 100

58 30.8 30.9 46.3#

85 14.4 14.4 21.6





#59

2-Hexanone

Concen: 0.302 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. -0.000 min

Lab File: VX036558.D

Acq: 14 Jul 2023 15:37

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

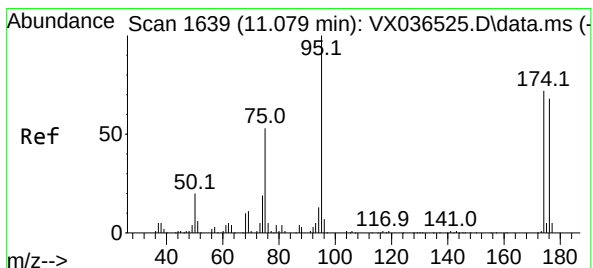
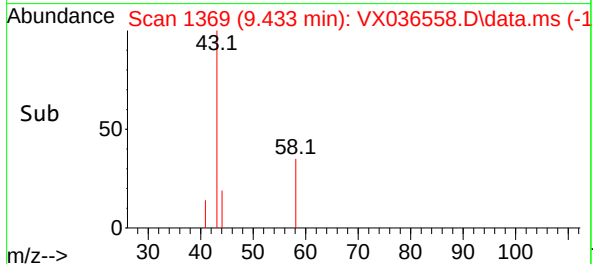
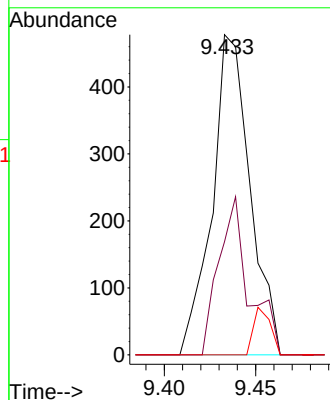
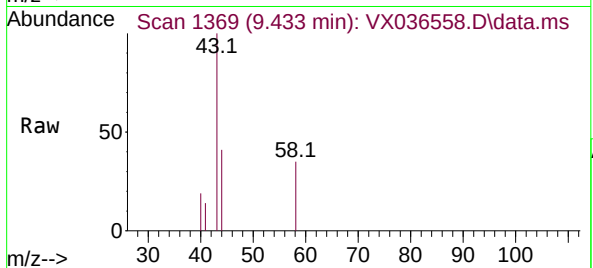
Tgt Ion: 43 Resp: 690

Ion Ratio Lower Upper

43 100

58 31.3 43.4 65.2#

57 0.0 15.1 22.7#



#60

4-Bromofluorobenzene

Concen: 31.066 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX036558.D

Acq: 14 Jul 2023 15:37

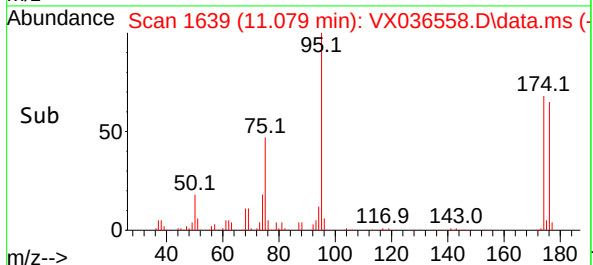
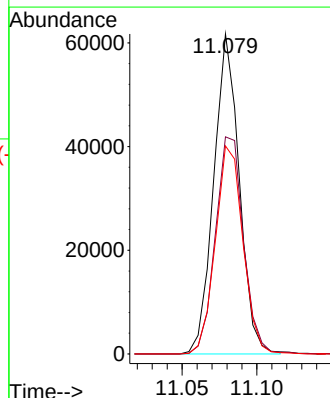
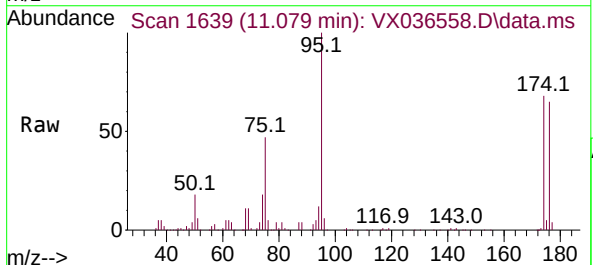
Tgt Ion: 95 Resp: 73231

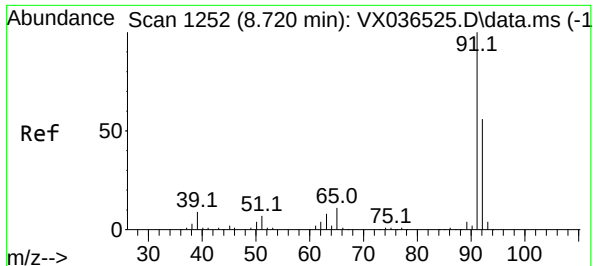
Ion Ratio Lower Upper

95 100

174 74.4 60.5 90.7

176 70.2 58.2 87.4

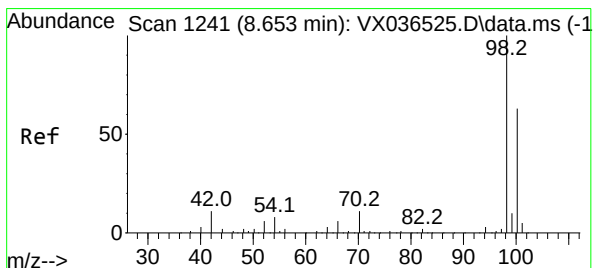
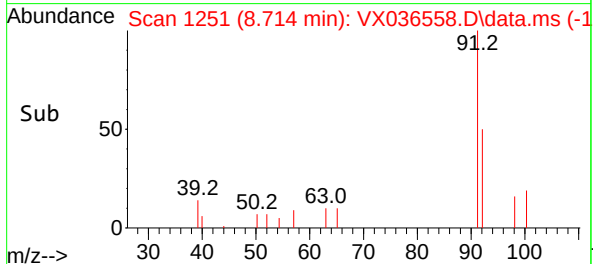
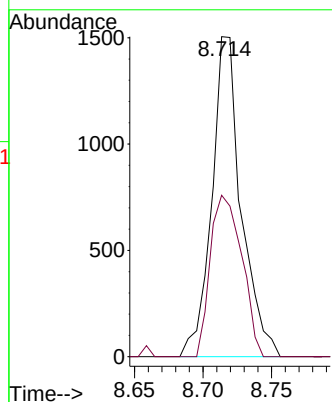
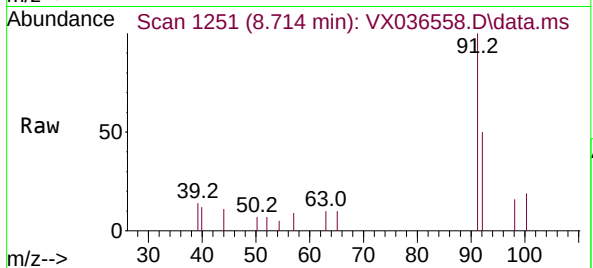




#62
Toluene
Concen: 0.276 ug/l
RT: 8.714 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

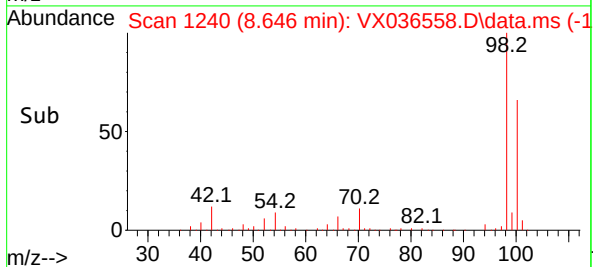
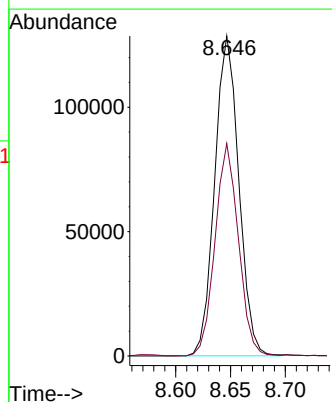
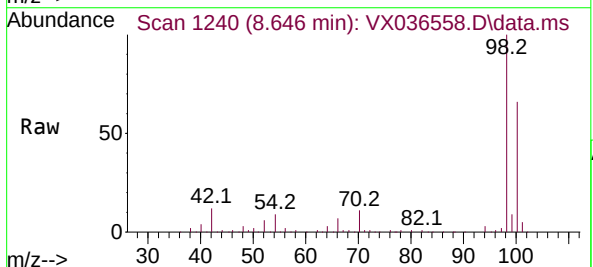
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

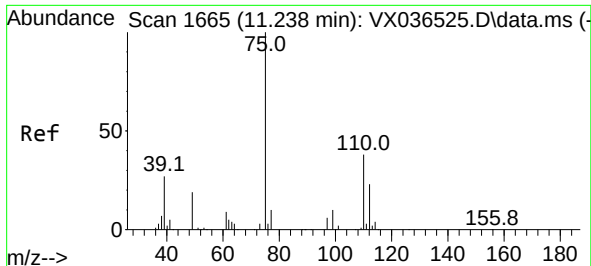
Tgt Ion: 91 Resp: 2249
Ion Ratio Lower Upper
91 100
92 53.9 44.9 67.3



#63
Toluene-d8
Concen: 29.416 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

Tgt Ion: 98 Resp: 196711
Ion Ratio Lower Upper
98 100
100 64.4 51.6 77.4

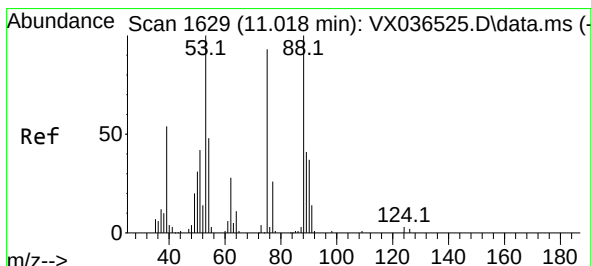
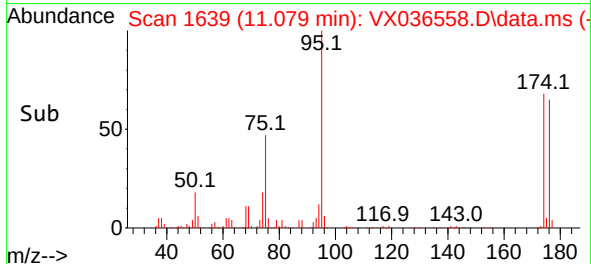
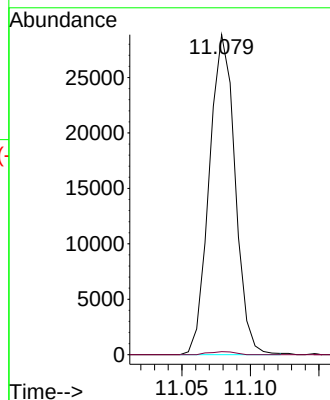
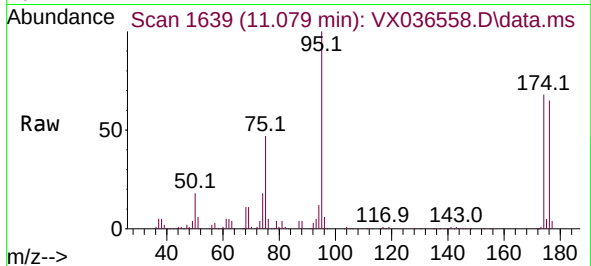




#72
1,2,3-Trichloropropane
Concen: 13.105 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

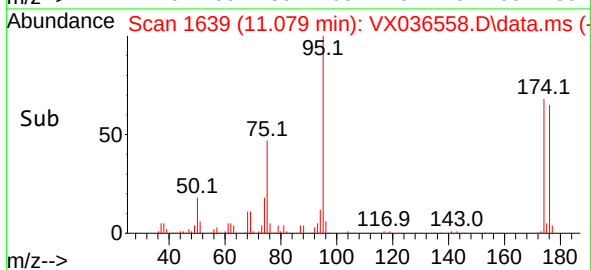
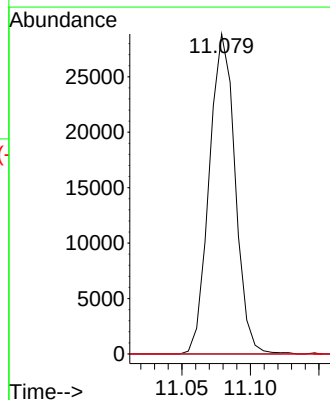
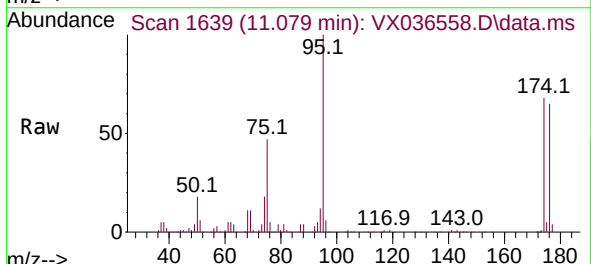
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

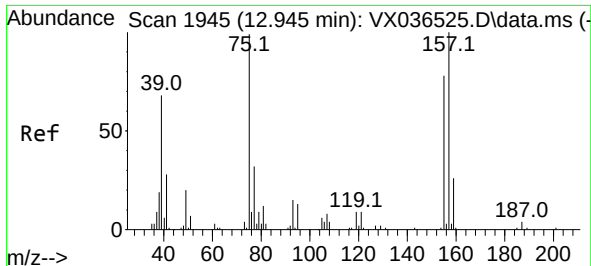
Tgt Ion: 75 Resp: 37849
Ion Ratio Lower Upper
75 100
77 0.9 0.0 77.2



#77
t-1,4-Dichloro-2-butene
Concen: 39.907 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036558.D
Acq: 14 Jul 2023 15:37

Tgt Ion: 75 Resp: 37849
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#





#88

1,2-Dibromo-3-Chloropropane

Concen: 79.226 ug/l

RT: 12.865 min Scan# 1932

Delta R.T. -0.080 min

Lab File: VX036558.D

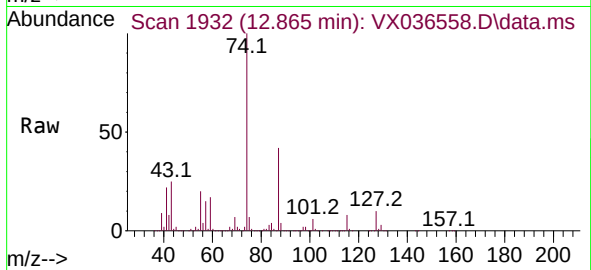
Acq: 14 Jul 2023 15:37

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW



Tgt Ion: 75 Resp: 55524

Ion Ratio Lower Upper

75 100

155 0.0 62.7 94.1#

157 0.3 81.5 122.3#

