

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036540.D
 Acq On : 13 Jul 2023 21:03
 Operator : JC/MD
 Sample : 03609-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 230712062-02-VOA

Quant Time: Jul 14 04:38:52 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)

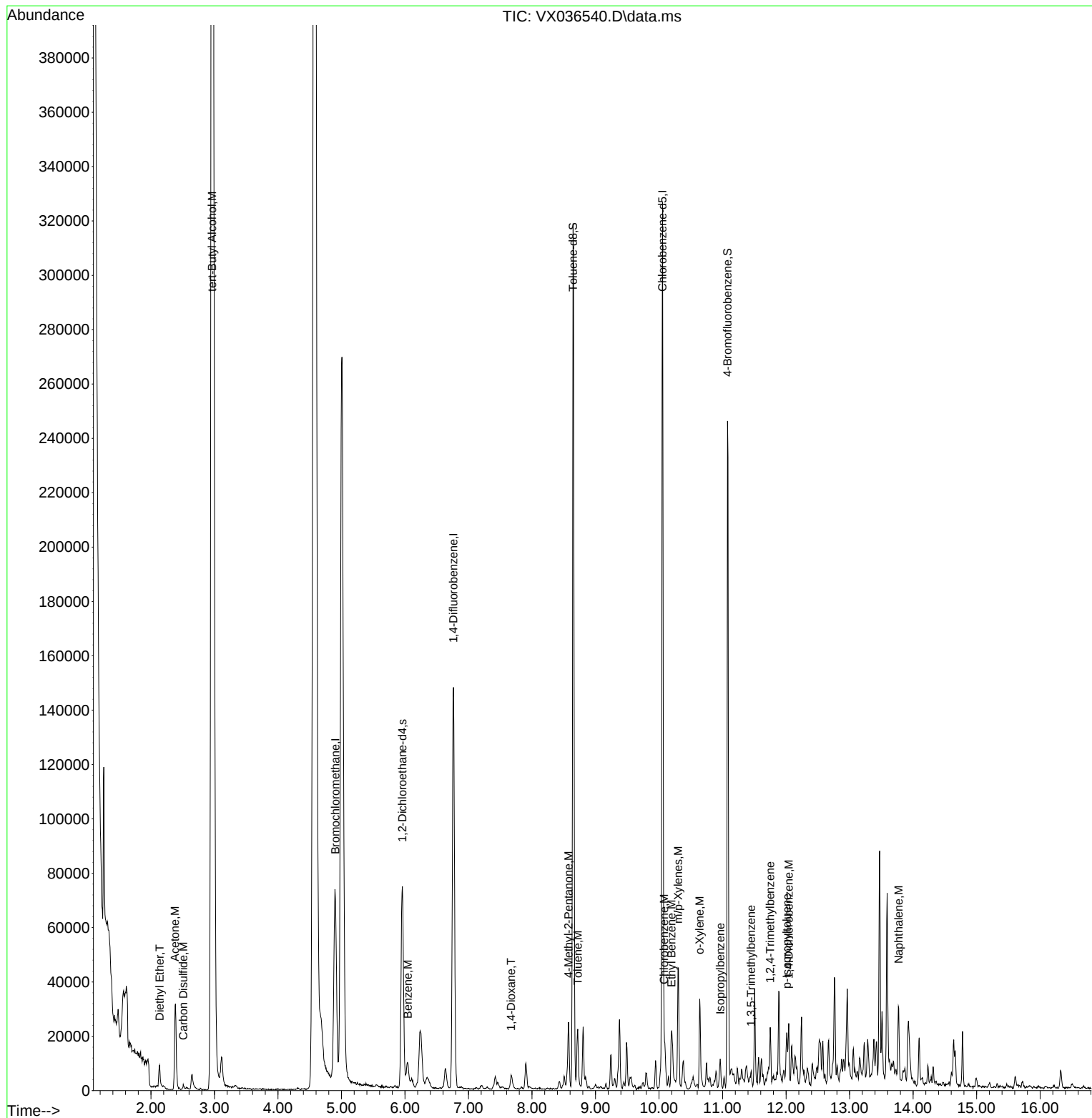
Internal Standards						
1) Bromochloromethane	4.903	128	29532	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	150904	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	137091	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	71103	29.009	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.700%		
60) 4-Bromofluorobenzene	11.079	95	65726	29.556	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.533%		
63) Toluene-d8	8.647	98	188480	29.878	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.600%		
Target Compounds					Qvalue	
8) Diethyl Ether	2.136	74	2735	1.743	ug/l	94
15) Acetone	2.380	58	7794	24.177	ug/l	91
16) Carbon Disulfide	2.508	76	1924	0.459	ug/l #	94
23) tert-Butyl Alcohol	2.965	59	1263014	2388.644	ug/l #	1
34) Benzene	6.043	78	11020	1.571	ug/l	94
45) 1,4-Dioxane	7.671	88	4065	80.516	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	15410	5.436	ug/l	96
62) Toluene	8.720	91	11179	1.453	ug/l	99
64) Chlorobenzene	10.079	112	3319	0.693	ug/l	97
66) Ethyl Benzene	10.195	91	11621	1.390	ug/l	90
67) m/p-Xylenes	10.299	106	9577	2.939	ug/l	99
68) o-Xylene	10.640	106	7026	2.172	ug/l	100
70) Isopropylbenzene	10.963	105	4602	0.571	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	2229	0.322	ug/l	93
80) 1,2,4-Trimethylbenzene	11.750	105	9113	1.329	ug/l	95
82) p-Isopropyltoluene	12.012	119	2207	0.321	ug/l	82
84) 1,4-Dichlorobenzene	12.042	146	6992	1.894	ug/l	96
91) Naphthalene	13.774	128	4009	0.488	ug/l	98

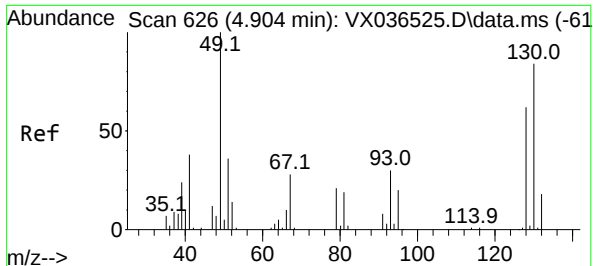
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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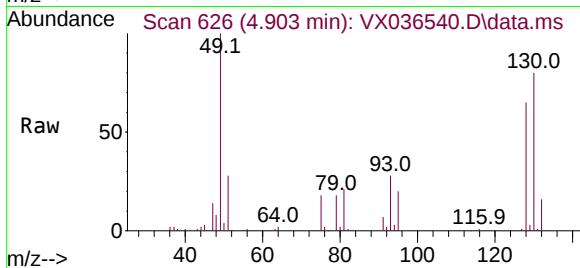
Quant Time: Jul 14 04:38:52 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 14 04:32:22 2023
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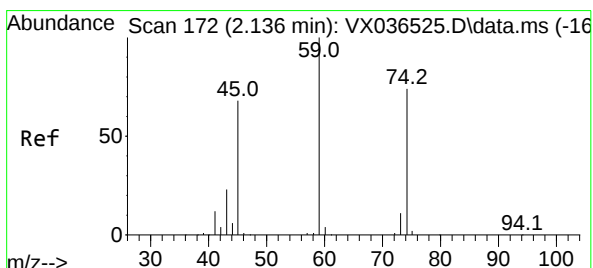
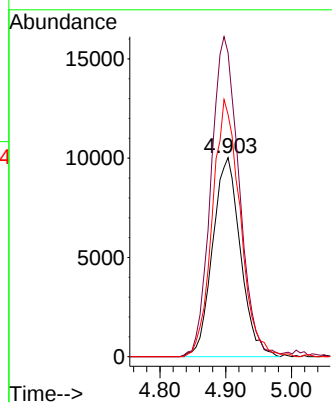
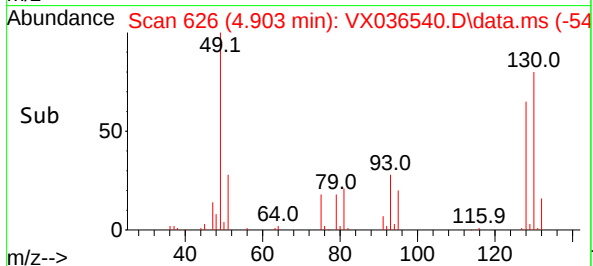


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

Instrument :
MSVOA_X
ClientSampleId :
230712062-02-VOA

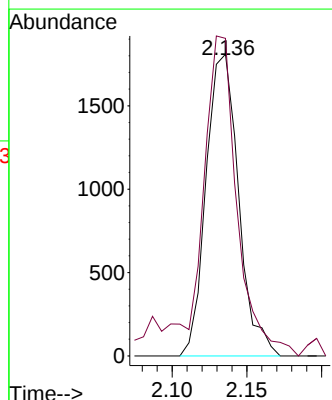
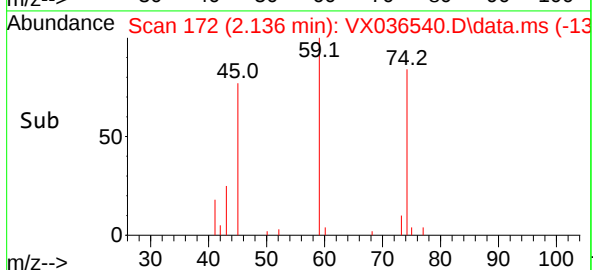
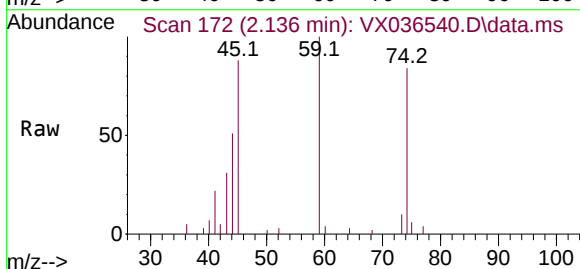


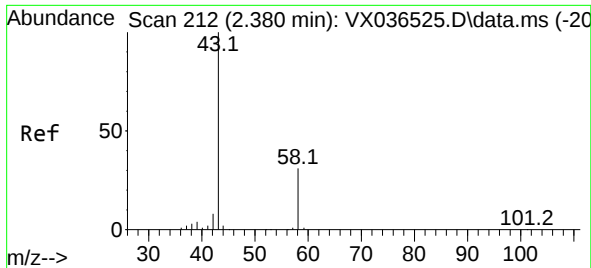
Tgt Ion:128 Resp: 29532
Ion Ratio Lower Upper
128 100
49 161.2 0.0 406.3
130 128.7 0.0 328.0



#8
Diethyl Ether
Concen: 1.743 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

Tgt Ion: 74 Resp: 2735
Ion Ratio Lower Upper
74 100
45 105.0 19.9 178.9





#15

Acetone

Concen: 24.177 ug/l

RT: 2.380 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX036540.D

Acq: 13 Jul 2023 21:03

Instrument :

MSVOA_X

ClientSampleId :

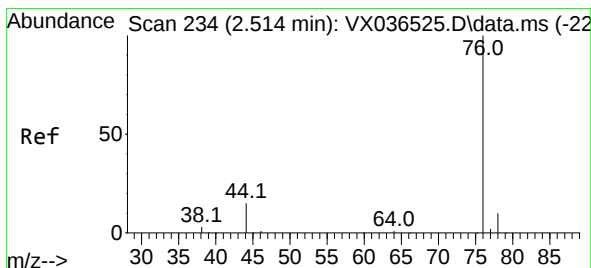
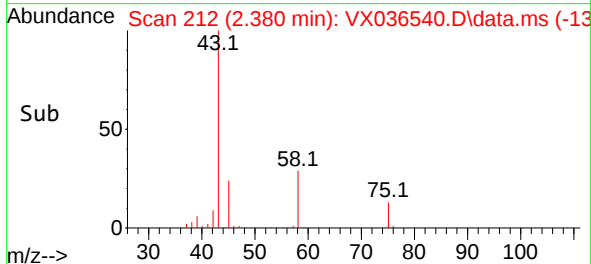
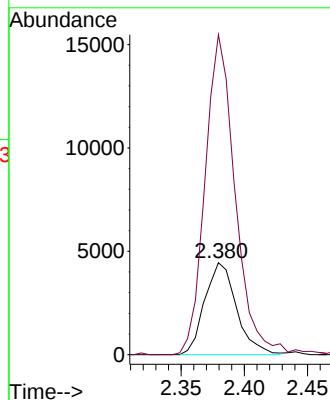
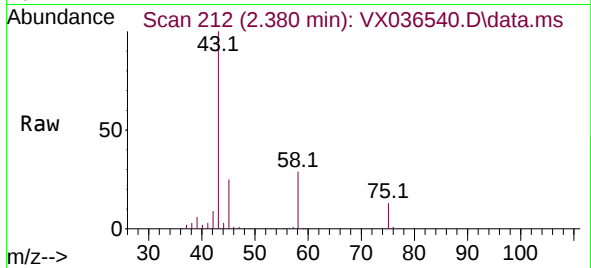
230712062-02-VOA

Tgt Ion: 58 Resp: 7794

Ion Ratio Lower Upper

58 100

43 345.8 261.0 391.4



#16

Carbon Disulfide

Concen: 0.459 ug/l

RT: 2.508 min Scan# 233

Delta R.T. -0.006 min

Lab File: VX036540.D

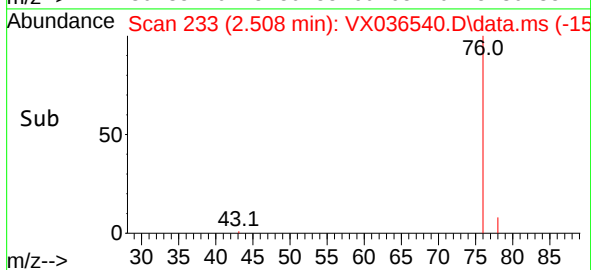
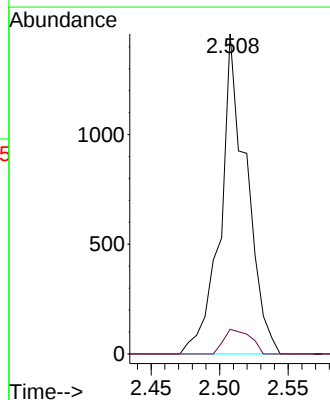
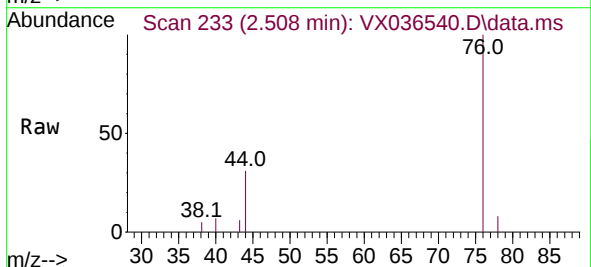
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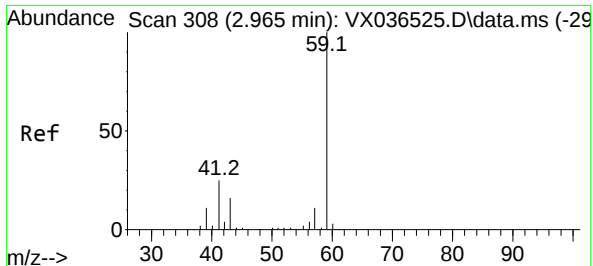
Tgt Ion: 76 Resp: 1924

Ion Ratio Lower Upper

76 100

78 7.7 8.0 12.0#

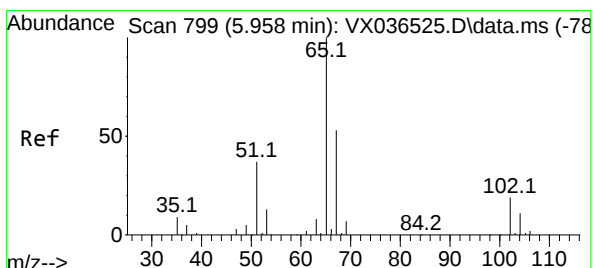
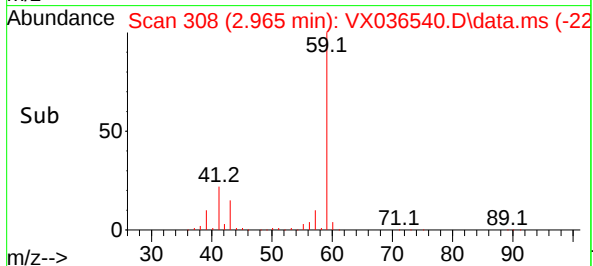
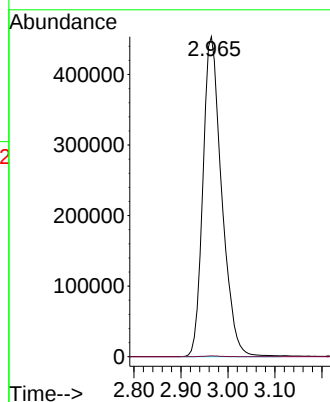
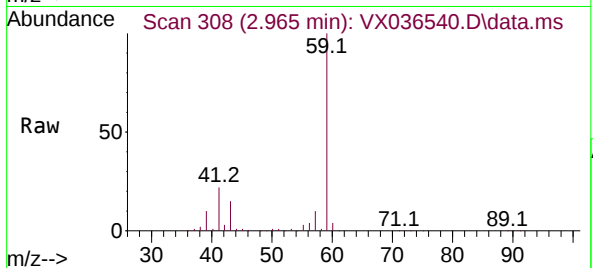




#23
tert-Butyl Alcohol
Concen: 2388.644 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

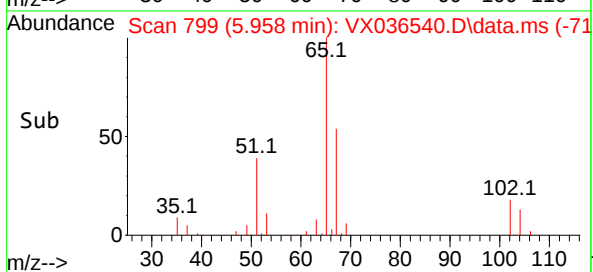
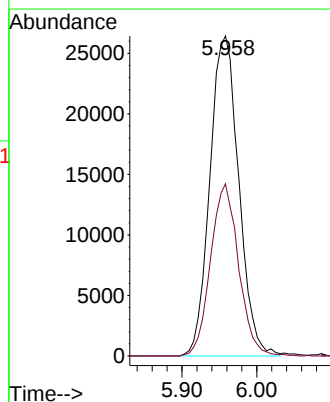
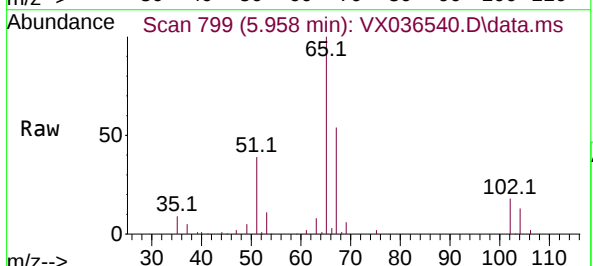
Instrument :
MSVOA_X
ClientSampleId :
230712062-02-VOA

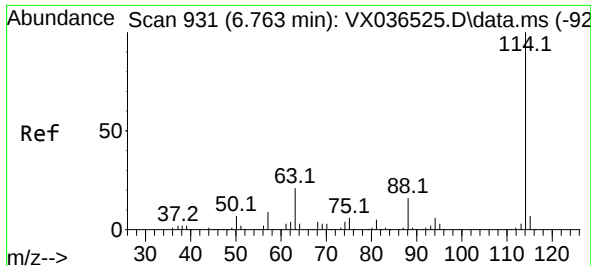
Tgt Ion: 59 Resp: 1263014
Ion Ratio Lower Upper
59 100
52 0.2 142.6 213.8#



#27
1,2-Dichloroethane-d4
Concen: 29.009 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

Tgt Ion: 65 Resp: 71103
Ion Ratio Lower Upper
65 100
67 52.1 42.1 63.1

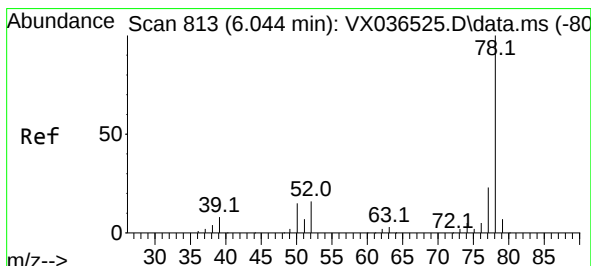
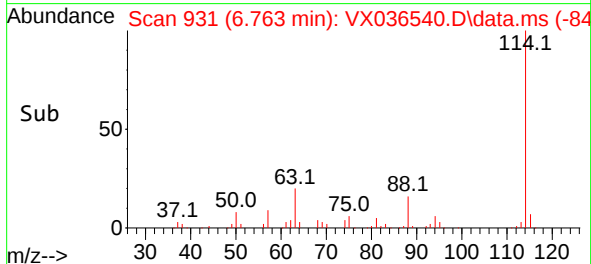
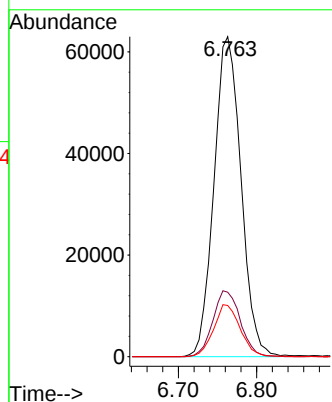
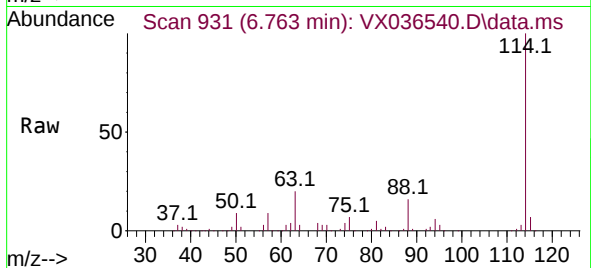




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

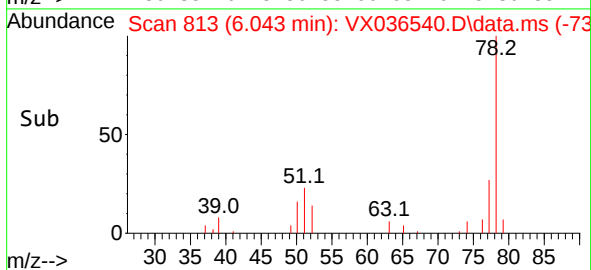
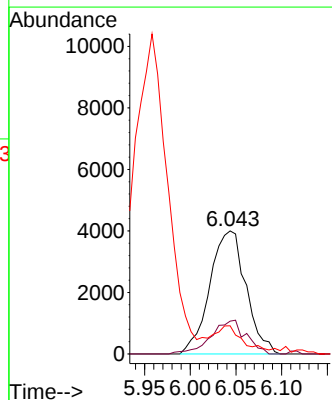
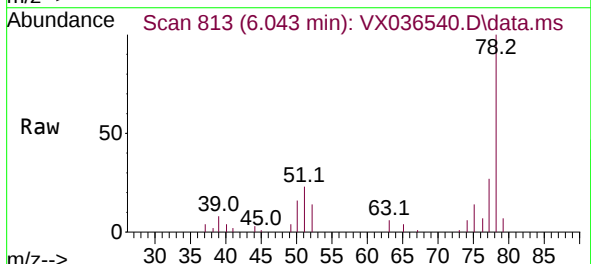
Instrument :
MSVOA_X
ClientSampleId :
230712062-02-VOA

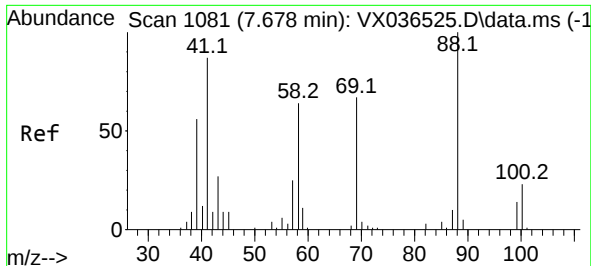
Tgt Ion:114 Resp: 150904
Ion Ratio Lower Upper
114 100
63 20.9 16.6 24.8
88 16.0 12.9 19.3



#34
Benzene
Concen: 1.571 ug/l
RT: 6.043 min Scan# 813
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

Tgt Ion: 78 Resp: 11020
Ion Ratio Lower Upper
78 100
77 26.6 18.7 28.1
51 20.1 14.2 21.4

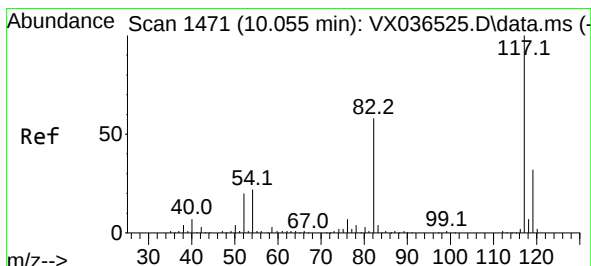
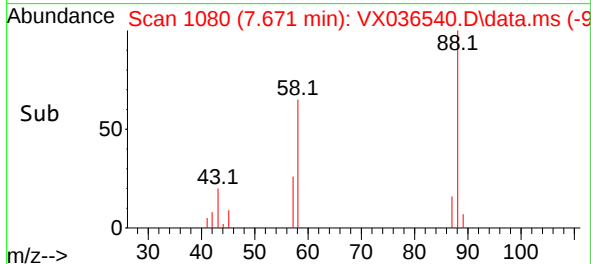
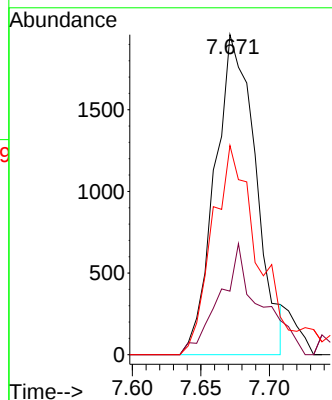
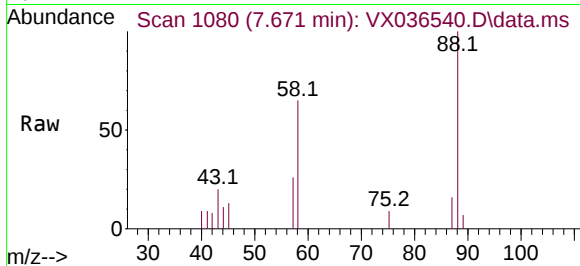




#45
1,4-Dioxane
Concen: 80.516 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

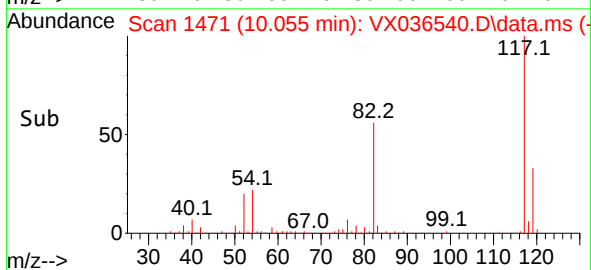
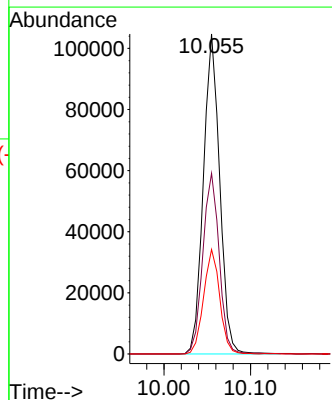
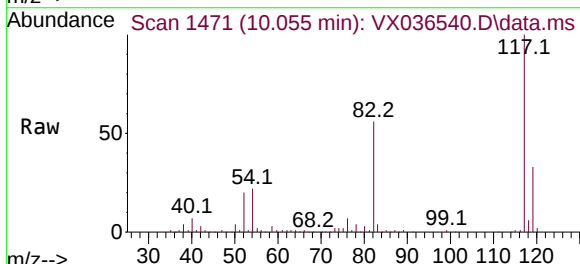
Instrument :
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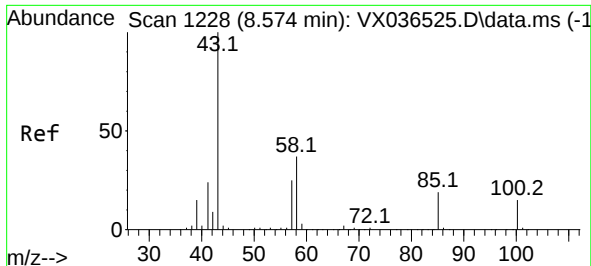
Tgt Ion: 88 Resp: 4065
Ion Ratio Lower Upper
88 100
43 27.5 297.5 446.3#
58 62.8 1.0 1.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

Tgt Ion: 117 Resp: 137091
Ion Ratio Lower Upper
117 100
82 56.4 44.7 67.1
119 32.3 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 5.436 ug/l

RT: 8.574 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036540.D

Acq: 13 Jul 2023 21:03

Instrument :

MSVOA_X

ClientSampleId :

230712062-02-VOA

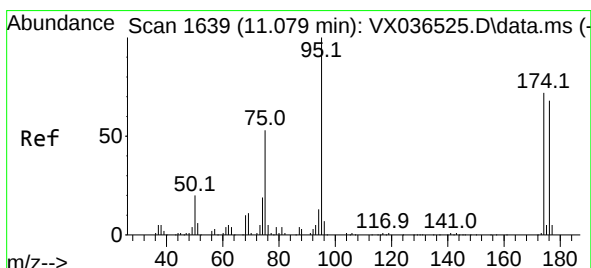
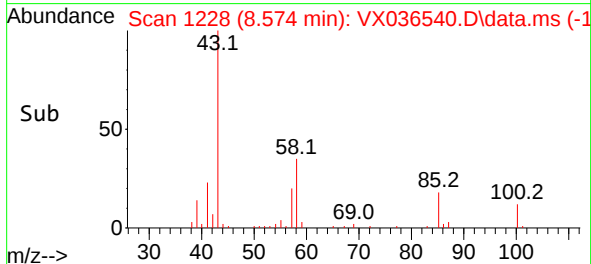
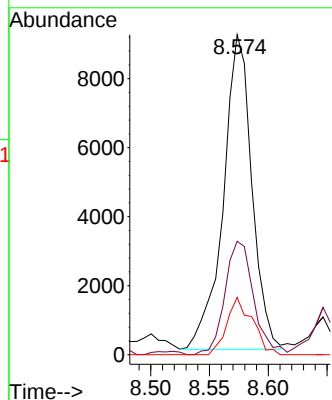
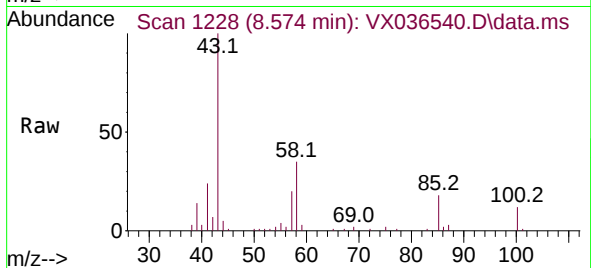
Tgt Ion: 43 Resp: 15410

Ion Ratio Lower Upper

43 100

58 36.2 30.9 46.3

85 16.3 14.4 21.6



#60

4-Bromofluorobenzene

Concen: 29.556 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX036540.D

Acq: 13 Jul 2023 21:03

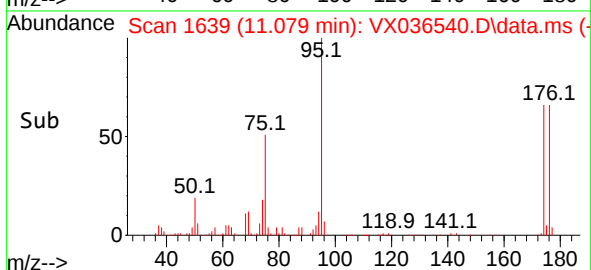
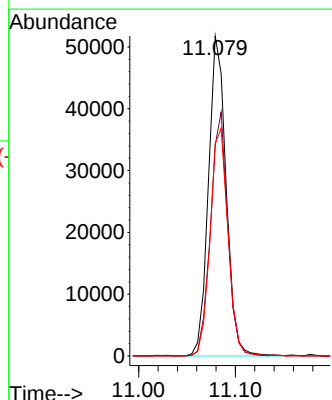
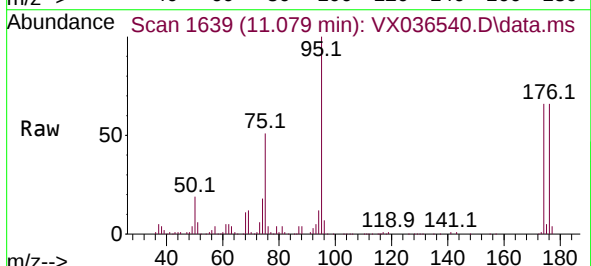
Tgt Ion: 95 Resp: 65726

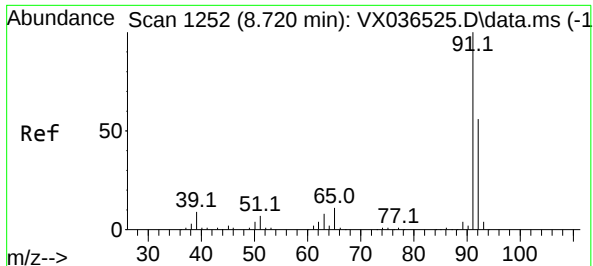
Ion Ratio Lower Upper

95 100

174 73.9 60.5 90.7

176 71.9 58.2 87.4





#62

Toluene

Concen: 1.453 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036540.D

Acq: 13 Jul 2023 21:03

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MSVOA_X

ClientSampleId :

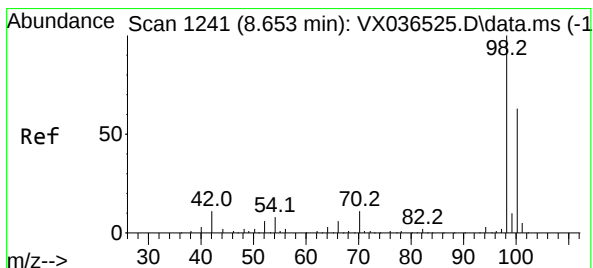
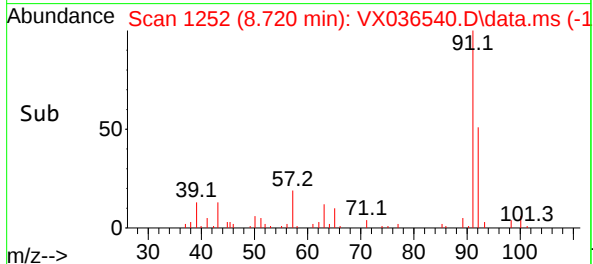
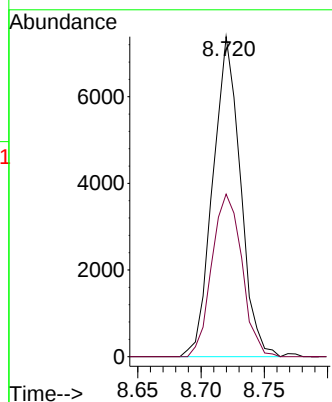
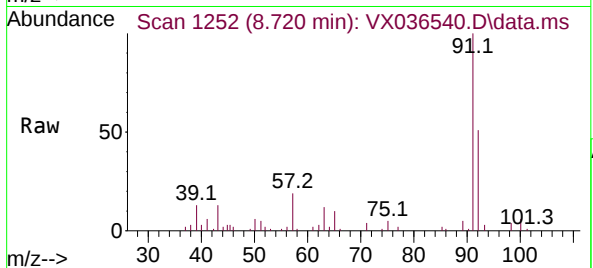
230712062-02-VOA

Tgt Ion: 91 Resp: 11179

Ion Ratio Lower Upper

91 100

92 55.3 44.9 67.3



#63

Toluene-d8

Concen: 29.878 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX036540.D

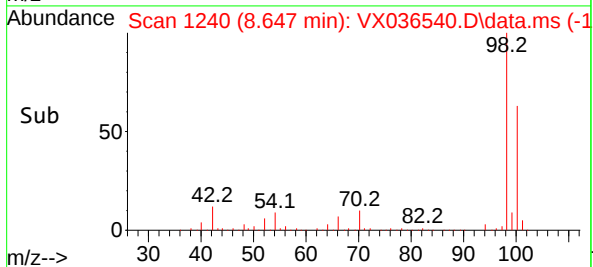
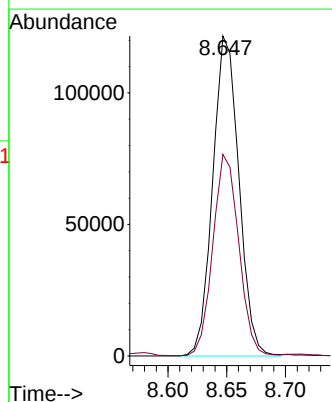
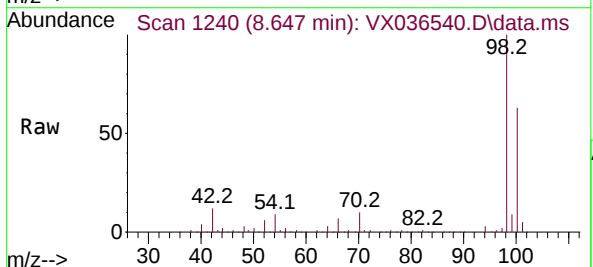
Acq: 13 Jul 2023 21:03

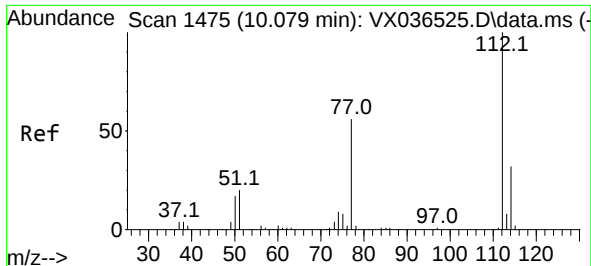
Tgt Ion: 98 Resp: 188480

Ion Ratio Lower Upper

98 100

100 62.5 51.6 77.4

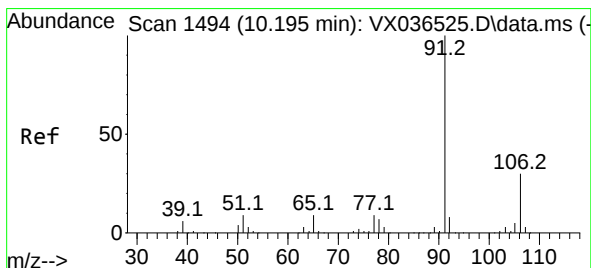
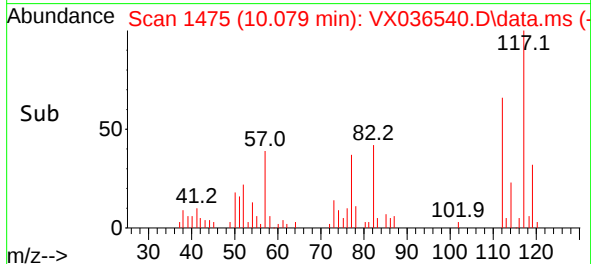
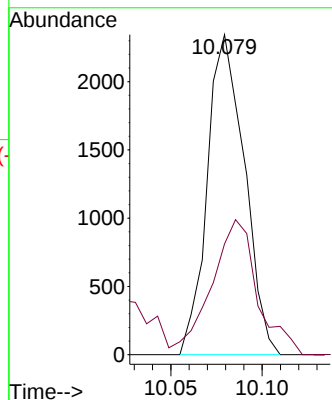
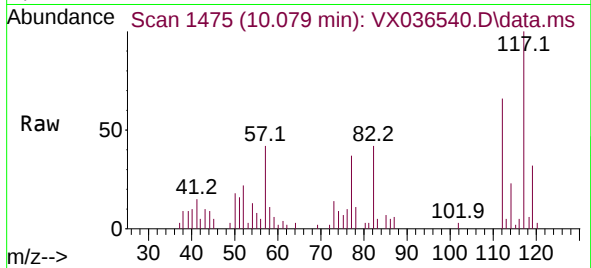




#64
Chlorobenzene
Concen: 0.693 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

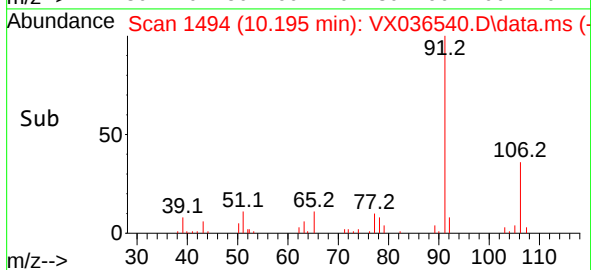
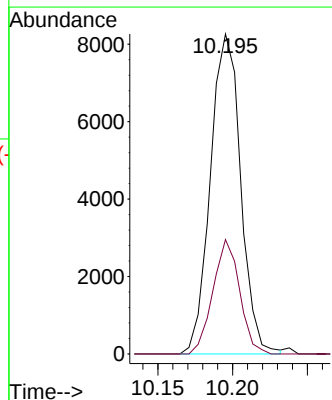
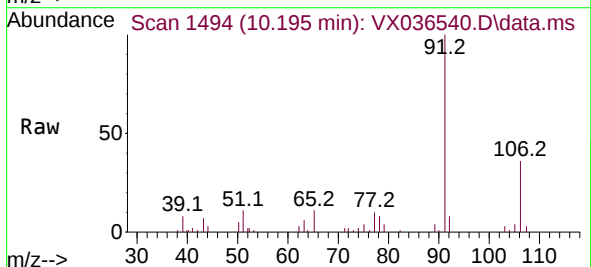
Instrument :
MSVOA_X
ClientSampleId :
230712062-02-VOA

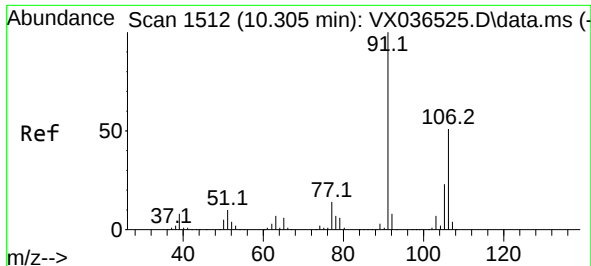
Tgt Ion:112 Resp: 3319
Ion Ratio Lower Upper
112 100
114 30.5 25.8 38.6



#66
Ethyl Benzene
Concen: 1.390 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

Tgt Ion: 91 Resp: 11621
Ion Ratio Lower Upper
91 100
106 35.8 24.2 36.4





#67

m/p-Xylenes

Concen: 2.939 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.006 min

Lab File: VX036540.D

Acq: 13 Jul 2023 21:03

Instrument :

MSVOA_X

ClientSampleId :

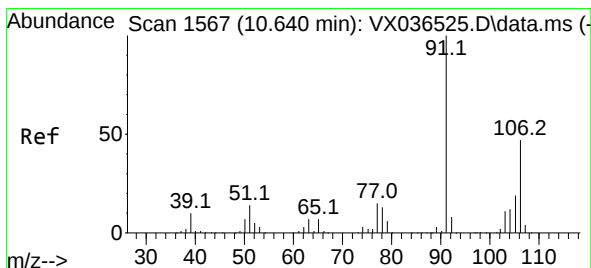
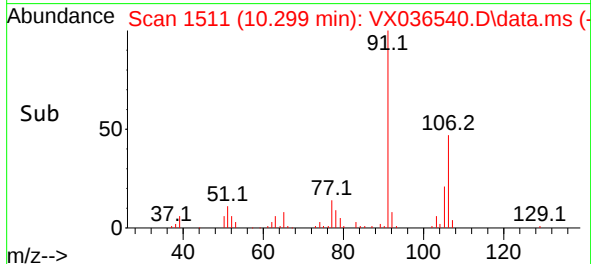
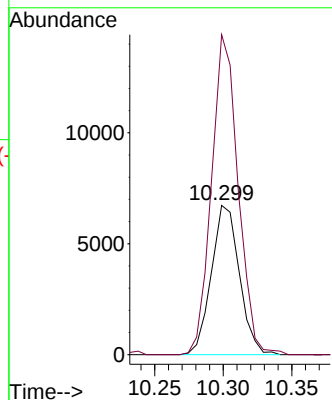
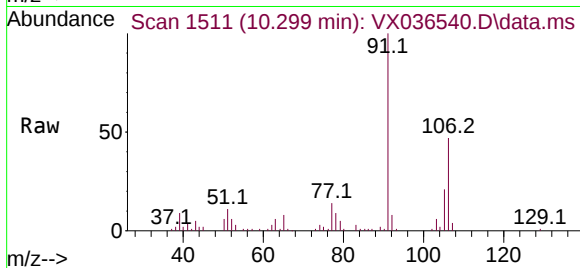
230712062-02-VOA

Tgt Ion:106 Resp: 9577

Ion Ratio Lower Upper

106 100

91 202.5 160.5 240.7



#68

o-Xylene

Concen: 2.172 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX036540.D

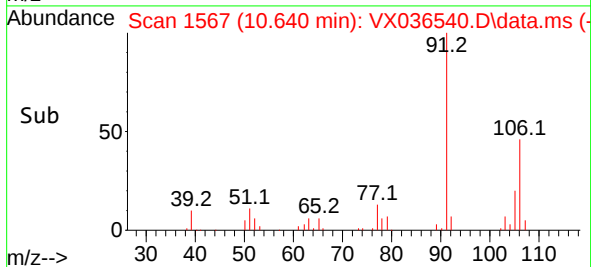
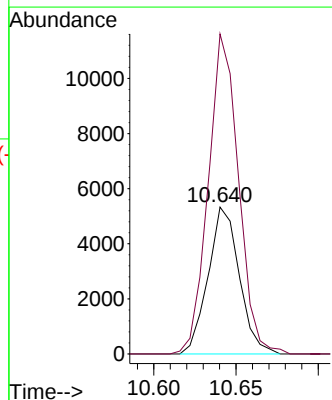
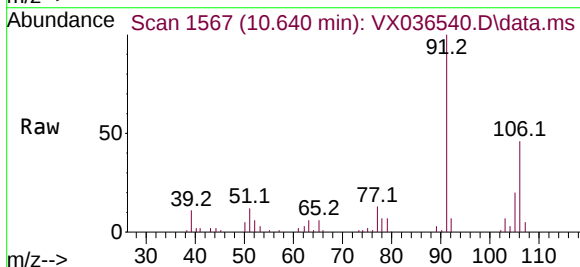
Acq: 13 Jul 2023 21:03

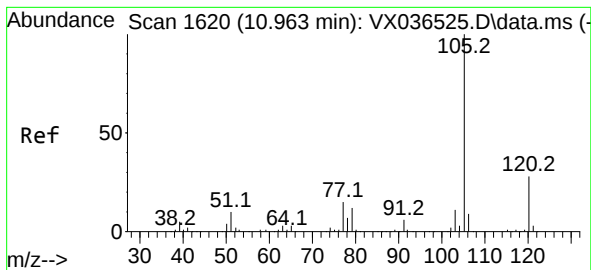
Tgt Ion:106 Resp: 7026

Ion Ratio Lower Upper

106 100

91 211.2 105.4 316.1





#70

Isopropylbenzene

Concen: 0.571 ug/l

RT: 10.963 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX036540.D

Acq: 13 Jul 2023 21:03

Instrument :

MSVOA_X

ClientSampleId :

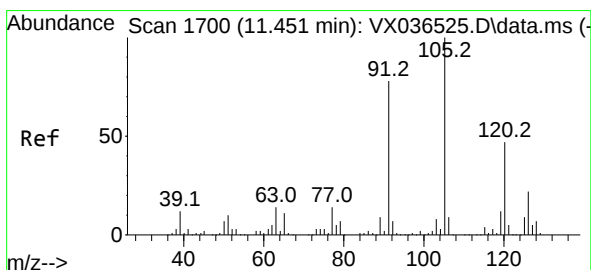
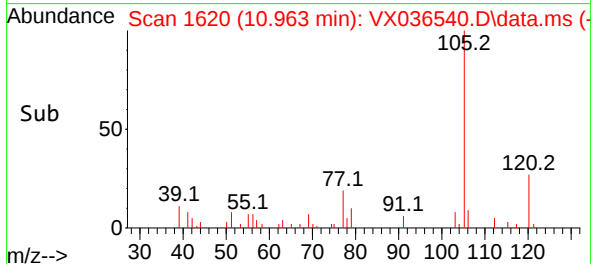
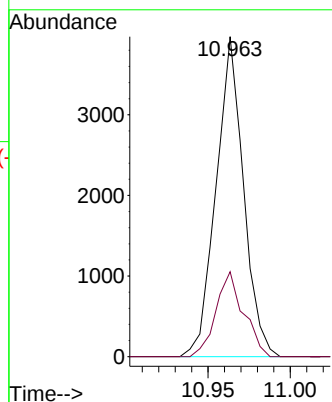
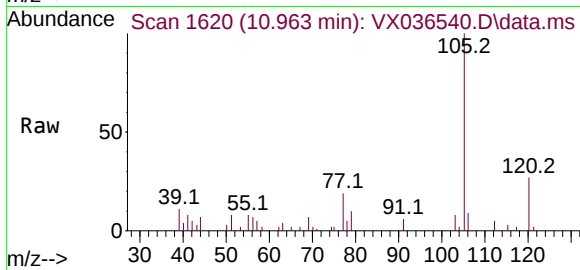
230712062-02-VOA

Tgt Ion:105 Resp: 4602

Ion Ratio Lower Upper

105 100

120 26.7 19.5 36.3



#76

1,3,5-Trimethylbenzene

Concen: 0.322 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX036540.D

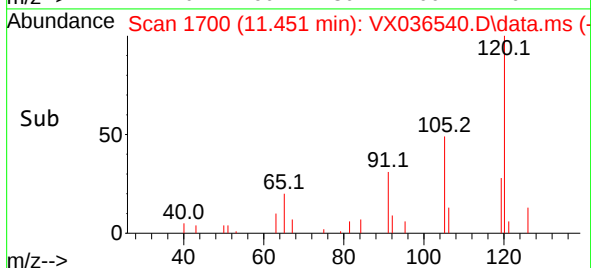
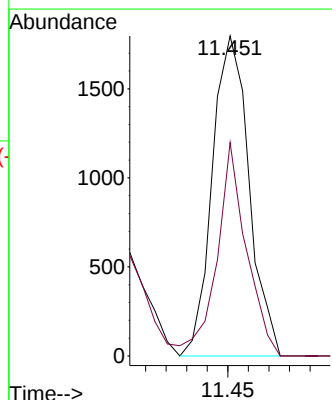
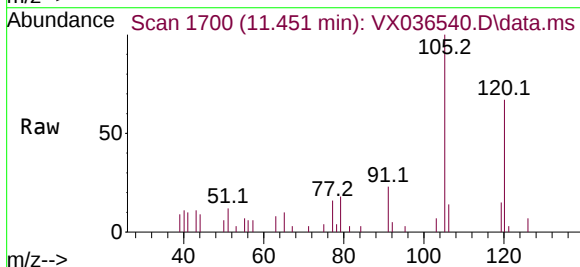
Acq: 13 Jul 2023 21:03

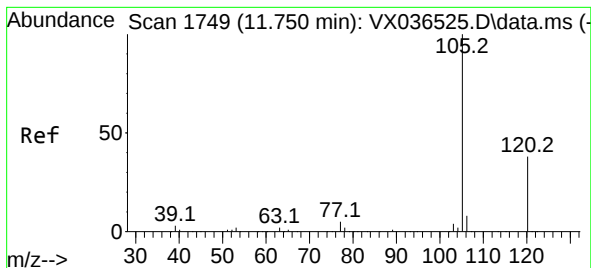
Tgt Ion:105 Resp: 2229

Ion Ratio Lower Upper

105 100

120 53.0 0.0 96.4





#80

1,2,4-Trimethylbenzene

Concen: 1.329 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX036540.D

Acq: 13 Jul 2023 21:03

Instrument :

MSVOA_X

ClientSampleId :

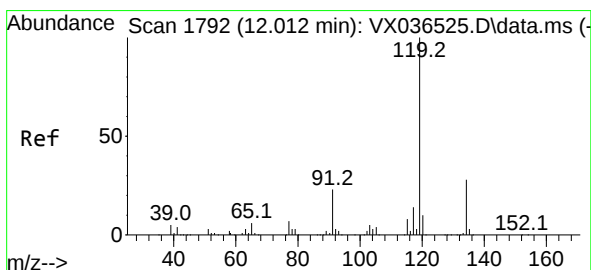
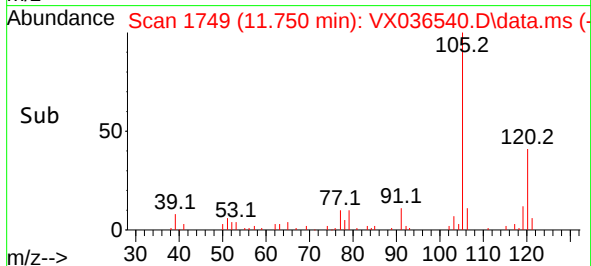
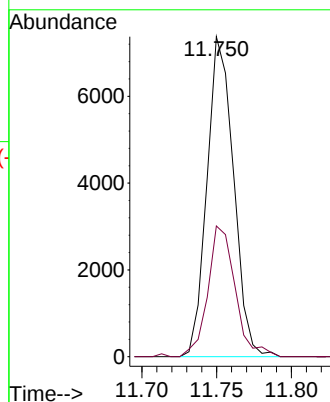
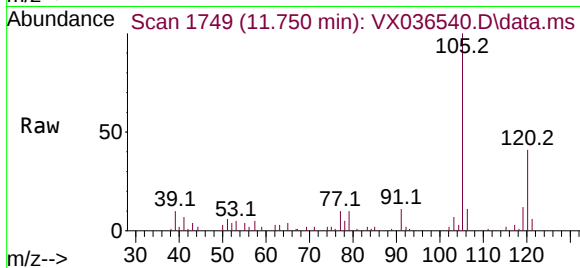
230712062-02-VOA

Tgt Ion:105 Resp: 9113

Ion Ratio Lower Upper

105 100

120 42.0 0.0 90.2



#82

p-Isopropyltoluene

Concen: 0.321 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VX036540.D

Acq: 13 Jul 2023 21:03

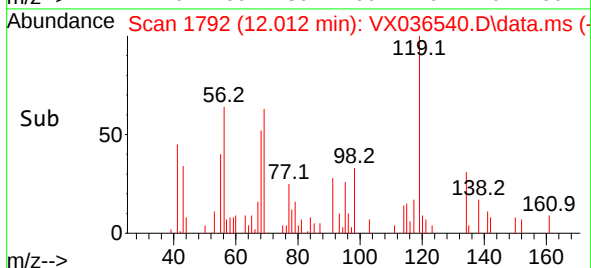
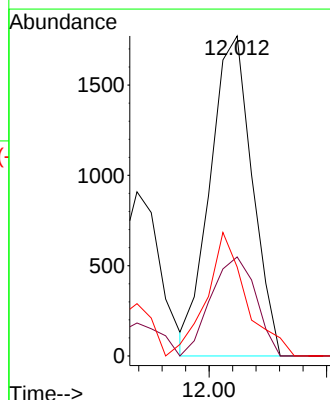
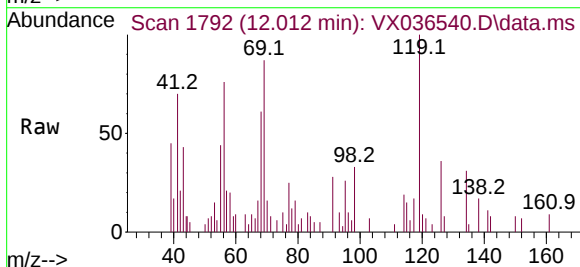
Tgt Ion:119 Resp: 2207

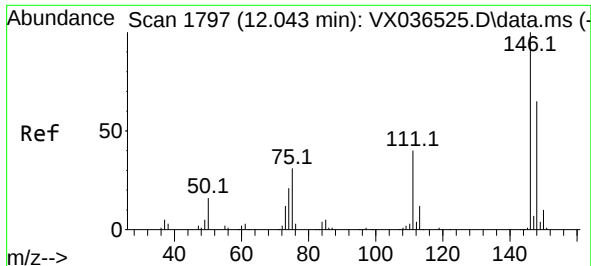
Ion Ratio Lower Upper

119 100

134 32.9 0.0 53.2

91 36.4 0.0 49.4

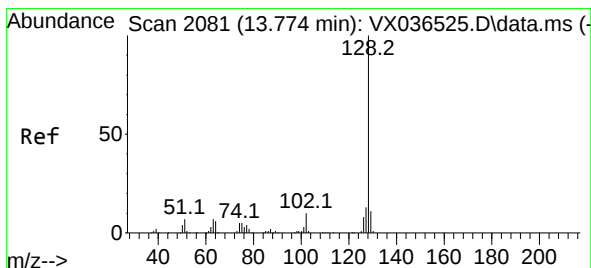
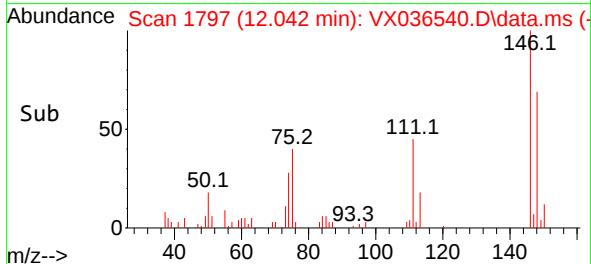
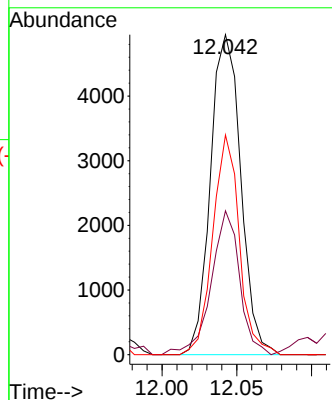
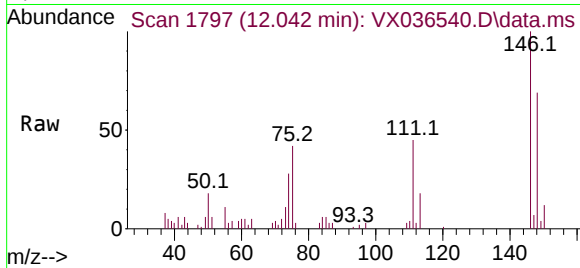




#84
1,4-Dichlorobenzene
Concen: 1.894 ug/l
RT: 12.042 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

Instrument :
MSVOA_X
ClientSampleId :
230712062-02-VOA

Tgt Ion:146 Resp: 6992
Ion Ratio Lower Upper
146 100
111 42.0 20.2 60.6
148 60.0 32.1 96.3



#91
Naphthalene
Concen: 0.488 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX036540.D
Acq: 13 Jul 2023 21:03

Tgt Ion:128 Resp: 4009
Ion Ratio Lower Upper
128 100
127 14.0 10.3 15.5
129 10.3 8.7 13.1

