

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062023\
 Data File : VX036253.D
 Acq On : 20 Jun 2023 19:12
 Operator : JC/MD
 Sample : 03339-02DL 100X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-08DL

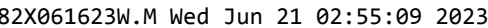
Quant Time: Jun 21 02:54:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 16 16:28:40 2023
 Response via : Initial Calibration

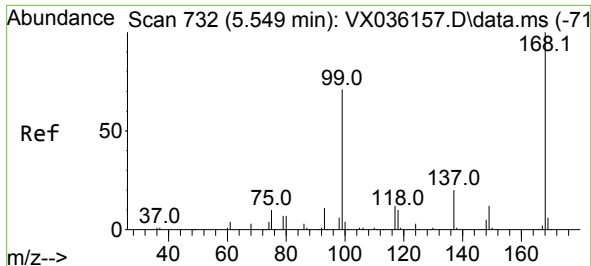
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.550	168	123286	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	241204	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	215092	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	100990	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	130989	58.140	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 116.280%	
35) Dibromofluoromethane	5.385	113	85878	52.504	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.000%	
50) Toluene-d8	8.647	98	293072	48.984	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 97.960%	
62) 4-Bromofluorobenzene	11.079	95	113600	47.037	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 94.080%	
Target Compounds						
					Qvalue	
16) Acetone	2.392	43	1234	1.318	ug/l	94
19) Methyl tert-butyl Ether	3.105	73	1839	0.353	ug/l #	1
20) Methylene Chloride	2.788	84	1185	0.699	ug/l #	93
31) Cyclohexane	5.471	56	1100	0.455	ug/l #	89
36) 1,1-Dichloropropene	5.544	75	11421	4.740	ug/l #	51
38) Carbon Tetrachloride	5.550	117	13759	5.874	ug/l #	14
39) Methylcyclohexane	7.379	83	1213	0.467	ug/l #	82
40) Benzene	6.044	78	12325	1.819	ug/l	97
52) Toluene	8.720	92	15489	3.651	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.250	63	744	0.510	ug/l #	61
67) Ethyl Benzene	10.195	91	235752	29.617	ug/l	99
68) m/p-Xylenes	10.299	106	308430	102.700	ug/l	100
69) o-Xylene	10.640	106	147034	49.623	ug/l	99
70) Styrene	10.640	104	7623	1.544	ug/l #	1
73) Isopropylbenzene	10.963	105	11061	1.476	ug/l	98
76) 1,2,3-Trichloropropane	11.378	75	1936	0.808	ug/l #	1
78) n-propylbenzene	11.305	91	32561	3.694	ug/l	98
79) 2-Chlorotoluene	11.378	91	25152	4.536	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.451	105	56533	8.860	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.079	75	63832	93.219	ug/l #	5
82) 4-Chlorotoluene	11.451	91	6833	1.058	ug/l #	46
83) tert-Butylbenzene	11.750	119	28716	4.734	ug/l #	54
84) 1,2,4-Trimethylbenzene	11.750	105	244343	38.391	ug/l	95
85) sec-Butylbenzene	11.750	105	244343	32.349	ug/l #	57
86) p-Isopropyltoluene	11.969	119	2444	0.385	ug/l	87
89) n-Butylbenzene	12.323	91	4281	0.755	ug/l #	14
90) Hexachloroethane	12.646	117	2306	2.313	ug/l #	17
95) Naphthalene	13.774	128	80272	12.493	ug/l	100

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

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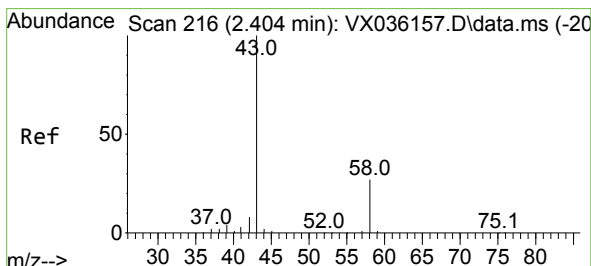
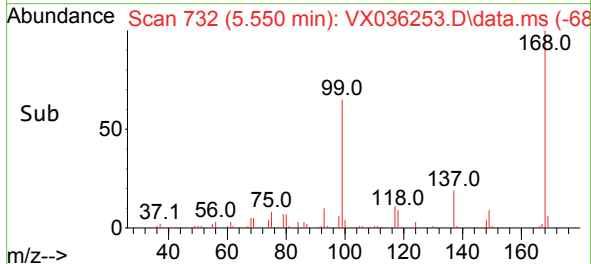
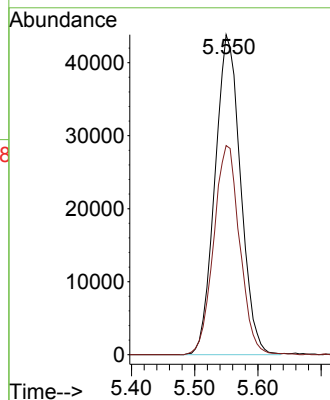
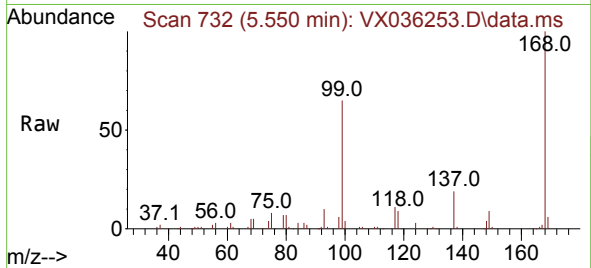




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

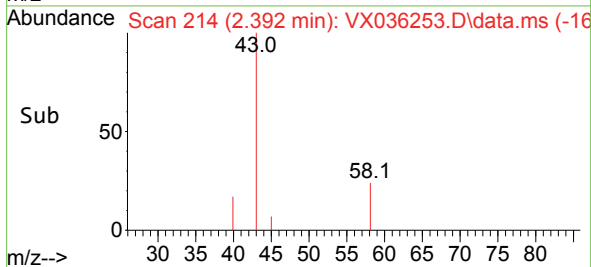
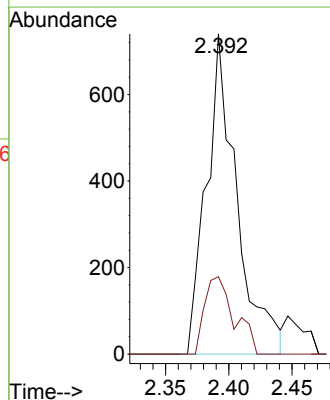
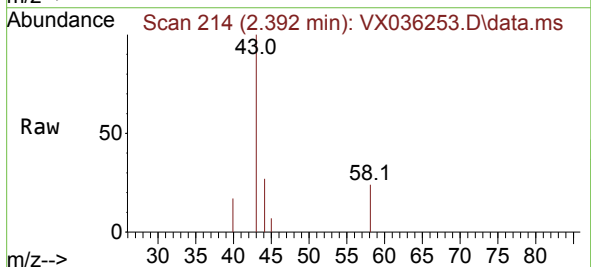
Instrument :
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ClientSampleId :
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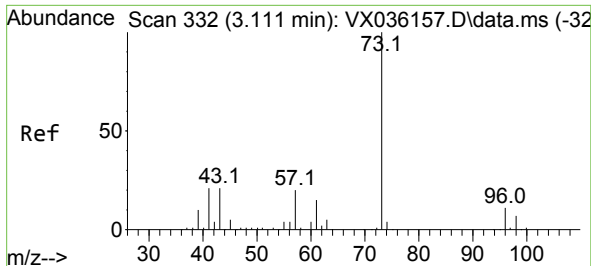
Tgt Ion:168 Resp: 123286
Ion Ratio Lower Upper
168 100
99 65.4 56.6 85.0



#16
Acetone
Concen: 1.318 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.012 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 43 Resp: 1234
Ion Ratio Lower Upper
43 100
58 24.2 21.9 32.9

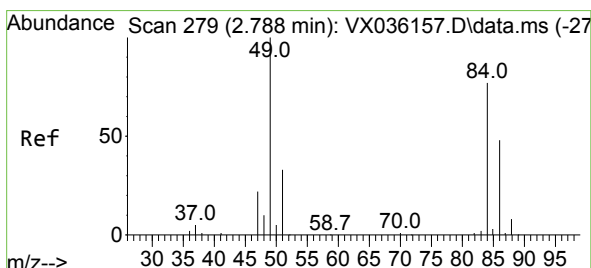
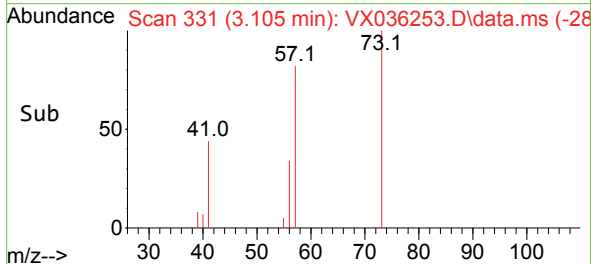
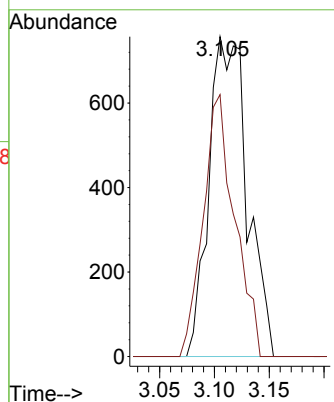
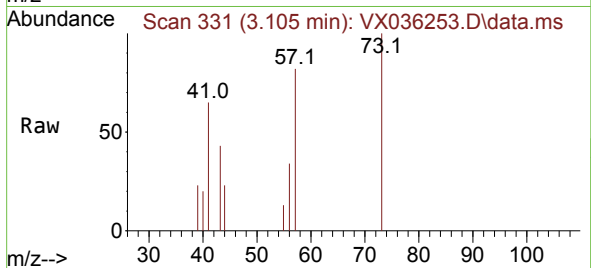




#19
Methyl tert-butyl Ether
Concen: 0.353 ug/l
RT: 3.105 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

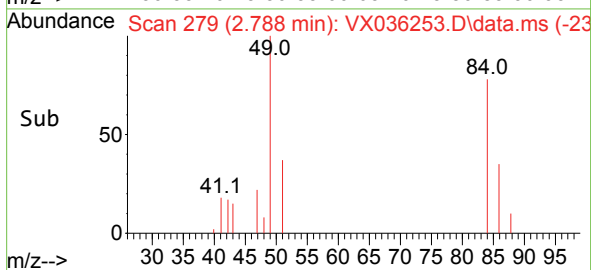
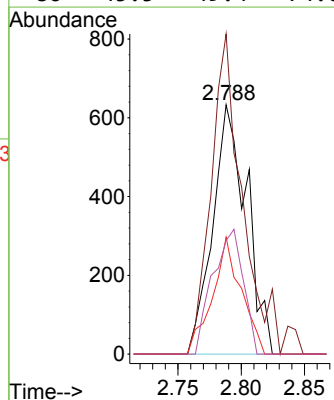
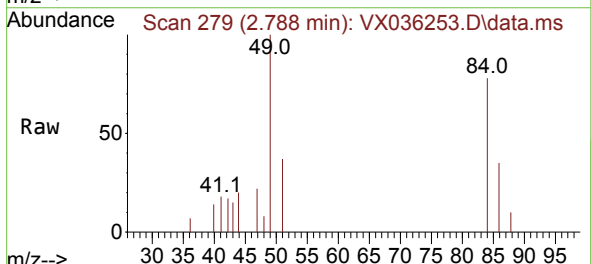
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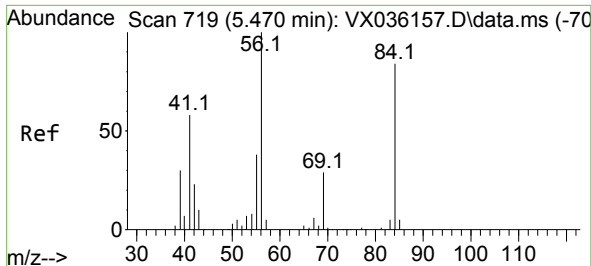
Tgt Ion: 73 Resp: 1839
Ion Ratio Lower Upper
73 100
57 81.9 17.3 25.9#



#20
Methylene Chloride
Concen: 0.699 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 84 Resp: 1185
Ion Ratio Lower Upper
84 100
49 128.4 103.6 155.4
51 46.9 33.8 50.6
86 45.5 49.4 74.0#

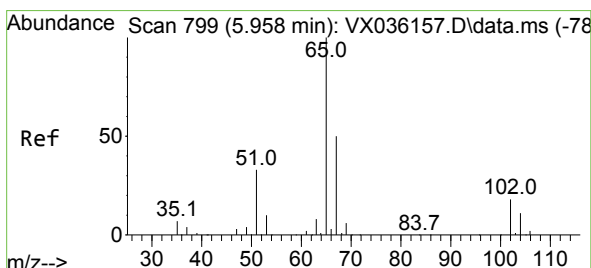
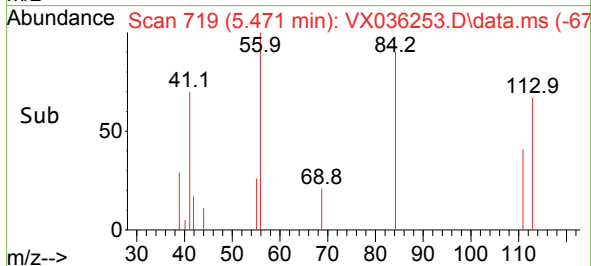
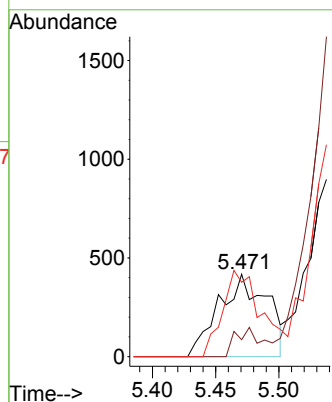
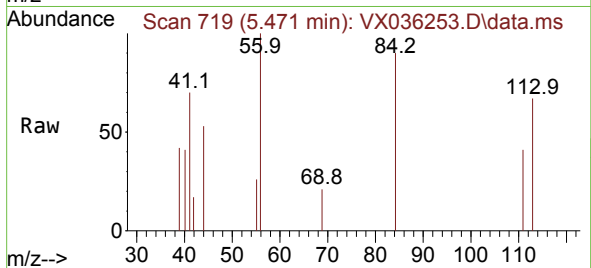




#31
Cyclohexane
Concen: 0.455 ug/l
RT: 5.471 min Scan# 719
Delta R.T. 0.001 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

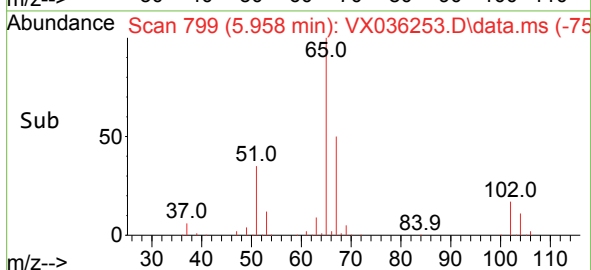
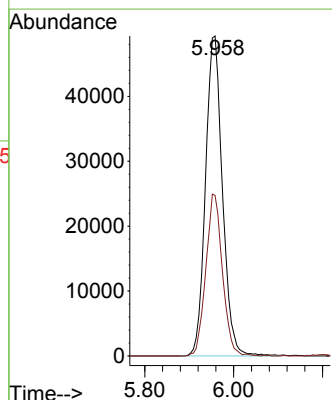
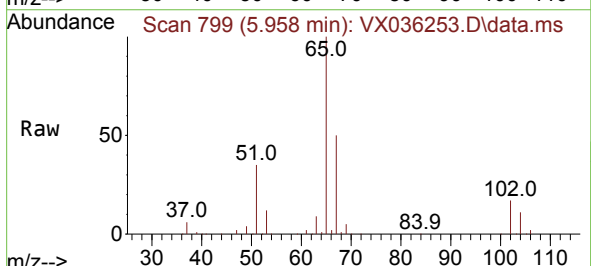
Instrument :
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ClientSampleId :
MW-08DL

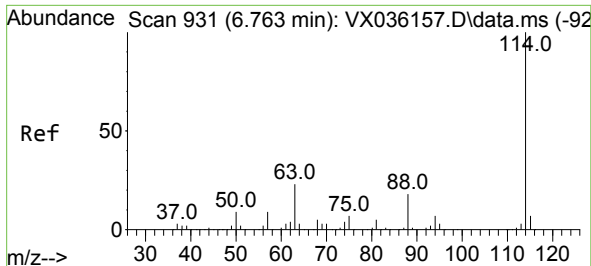
Tgt Ion: 56 Resp: 1100
Ion Ratio Lower Upper
56 100
69 20.6 23.4 35.2#
84 90.4 65.9 98.9



#33
1,2-Dichloroethane-d4
Concen: 58.140 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 65 Resp: 130989
Ion Ratio Lower Upper
65 100
67 49.5 0.0 100.2

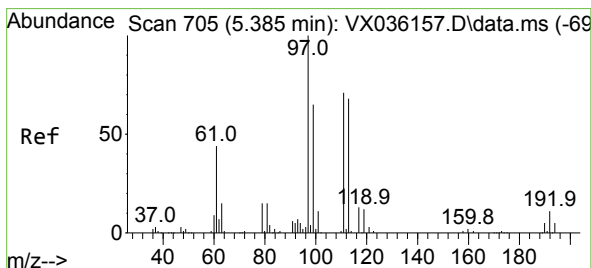
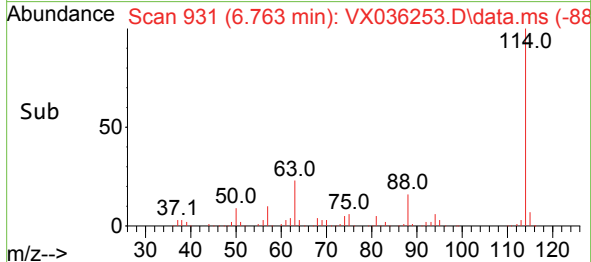
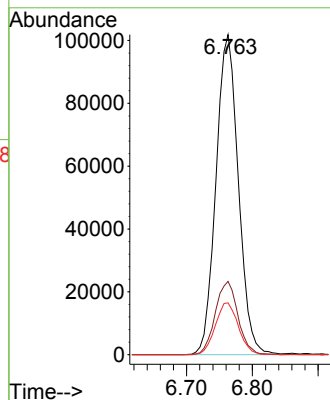
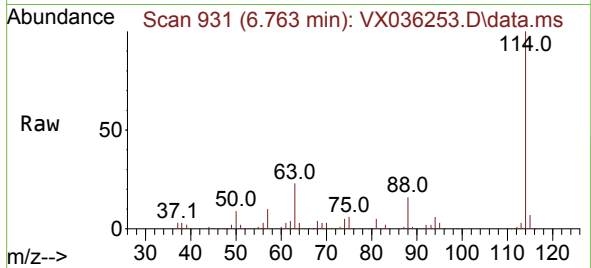




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

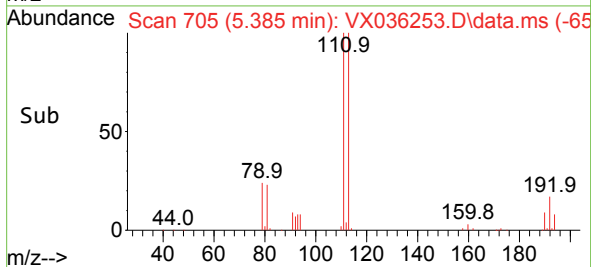
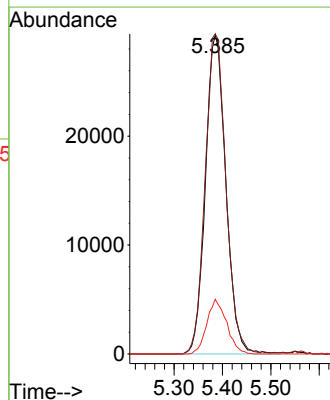
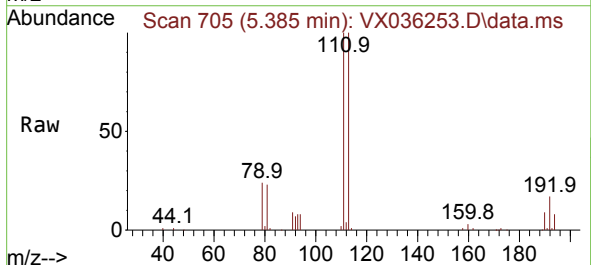
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MW-08DL

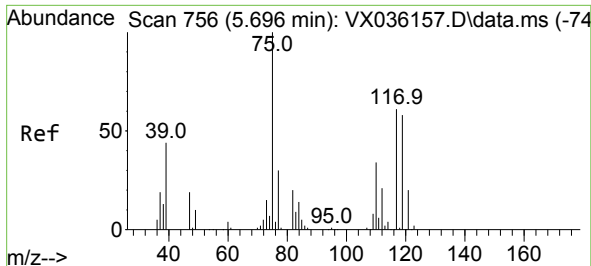
Tgt Ion:114 Resp: 241204
Ion Ratio Lower Upper
114 100
63 22.9 0.0 45.0
88 16.2 0.0 36.6



#35
Dibromofluoromethane
Concen: 52.504 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion:113 Resp: 85878
Ion Ratio Lower Upper
113 100
111 102.1 82.9 124.3
192 16.6 13.3 19.9

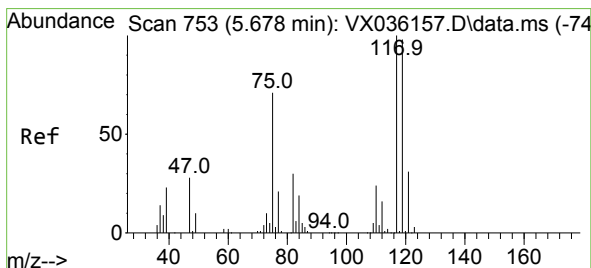
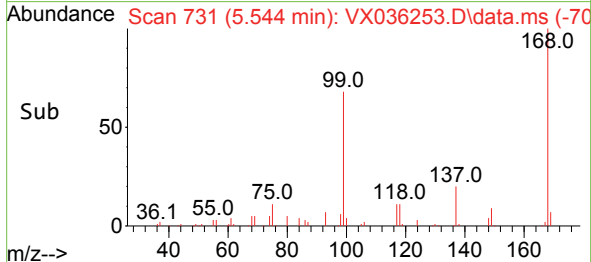
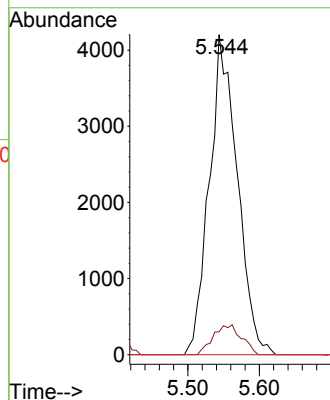
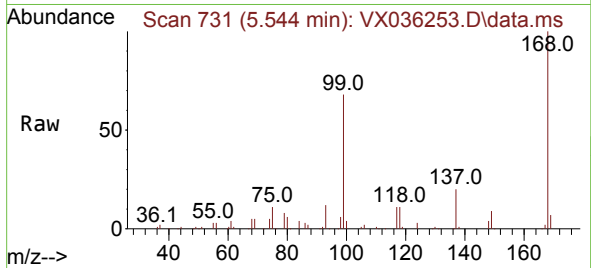




#36
1,1-Dichloropropene
Concen: 4.740 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.152 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

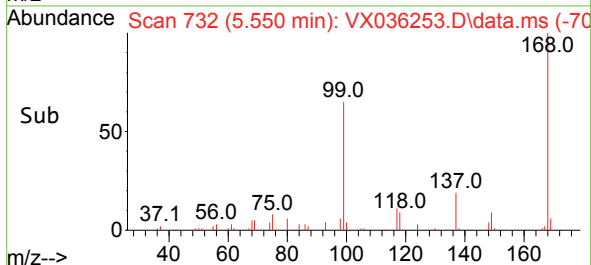
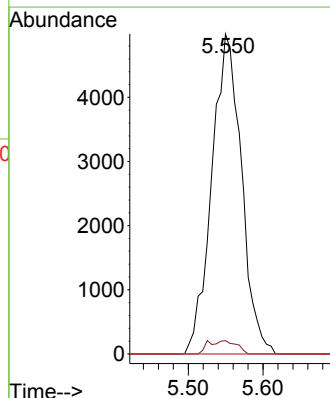
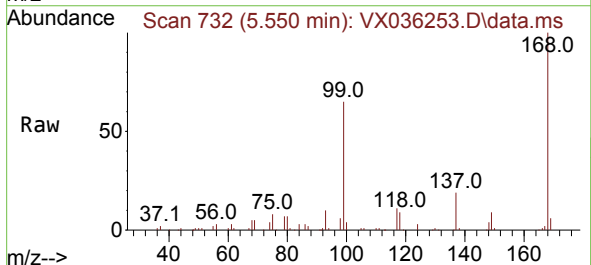
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ClientSampleId :
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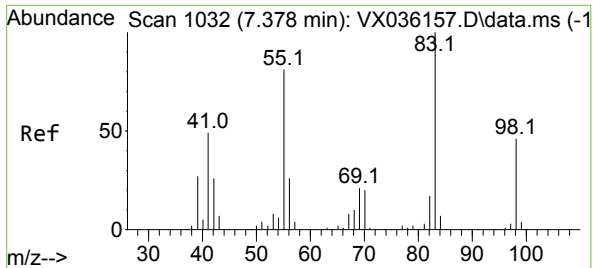
Tgt Ion: 75 Resp: 11421
Ion Ratio Lower Upper
75 100
110 9.5 17.0 50.9#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 5.874 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.128 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 117 Resp: 13759
Ion Ratio Lower Upper
117 100
119 4.1 78.2 117.2#
121 0.0 24.4 36.6#

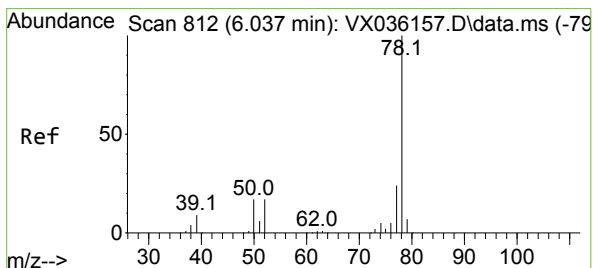
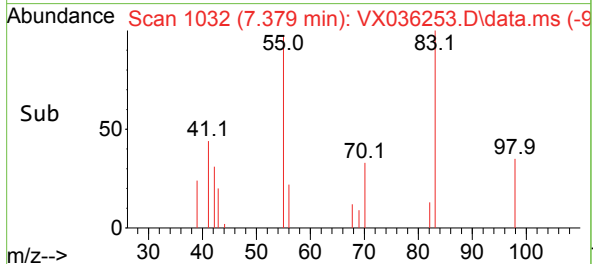
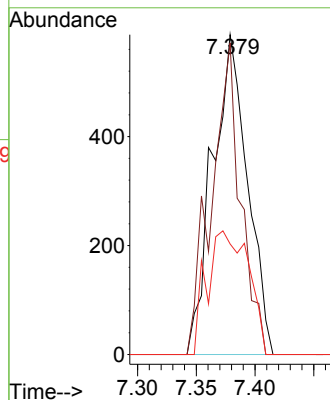
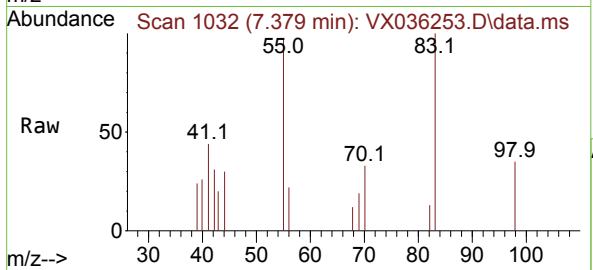




#39
Methylcyclohexane
Concen: 0.467 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. 0.001 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

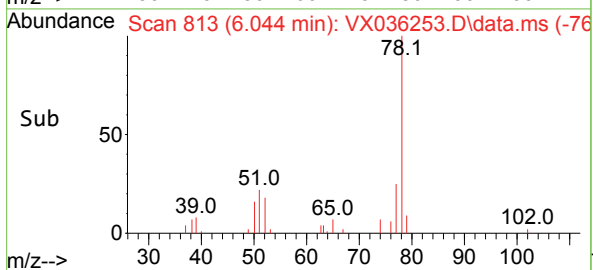
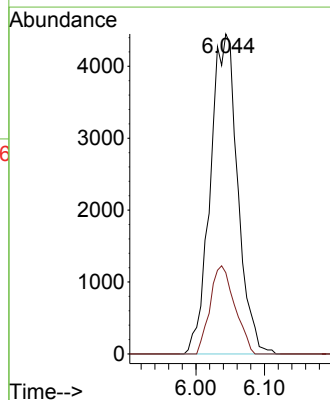
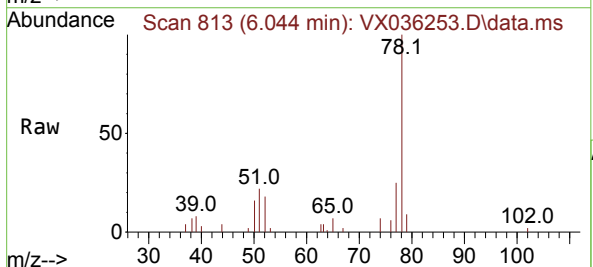
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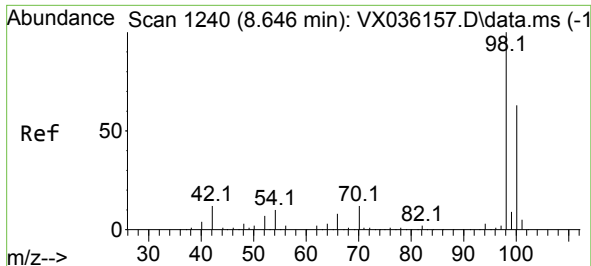
Tgt Ion: 83 Resp: 1213
Ion Ratio Lower Upper
83 100
55 97.4 64.6 97.0#
98 34.6 36.7 55.1#



#40
Benzene
Concen: 1.819 ug/l
RT: 6.044 min Scan# 813
Delta R.T. 0.007 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 78 Resp: 12325
Ion Ratio Lower Upper
78 100
77 25.4 19.3 28.9

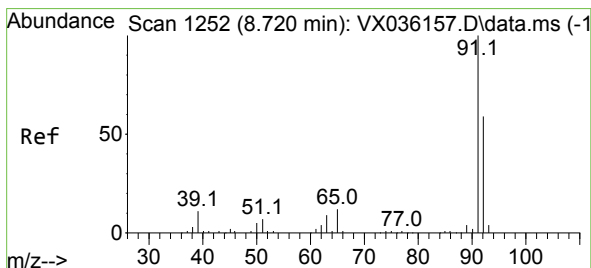
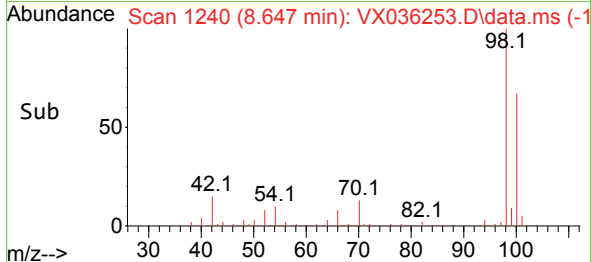
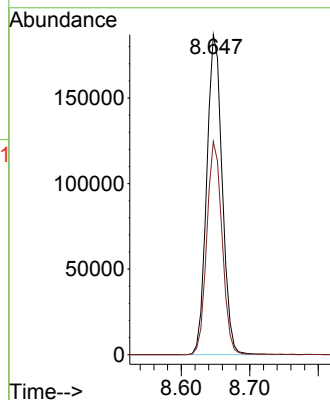
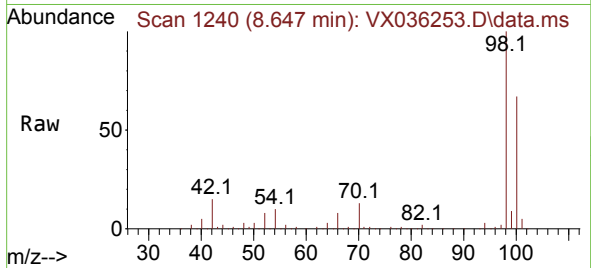




#50
Toluene-d8
Concen: 48.984 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

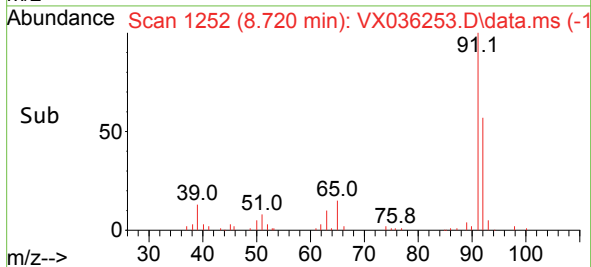
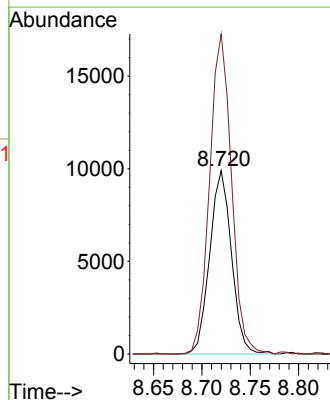
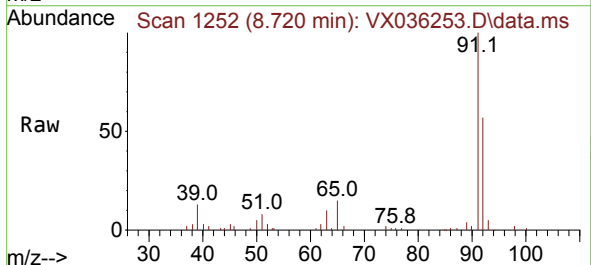
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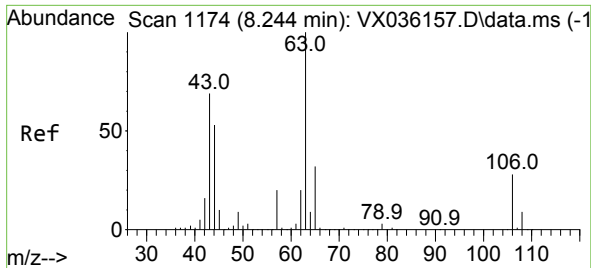
Tgt Ion: 98 Resp: 293072
Ion Ratio Lower Upper
98 100
100 65.9 53.1 79.7



#52
Toluene
Concen: 3.651 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 92 Resp: 15489
Ion Ratio Lower Upper
92 100
91 175.5 134.2 201.2

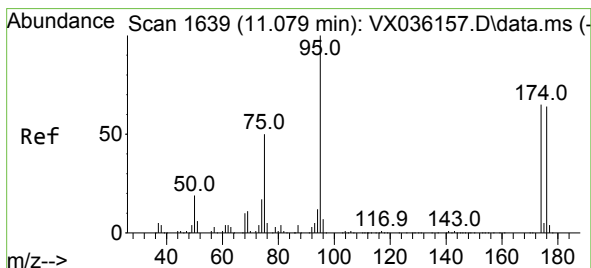
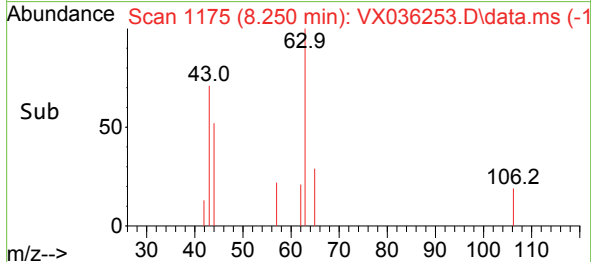
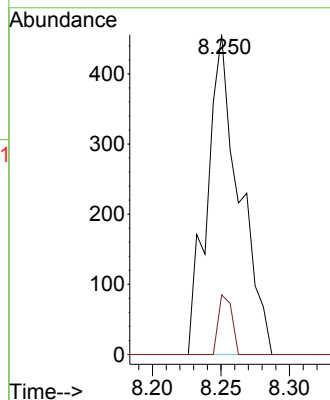
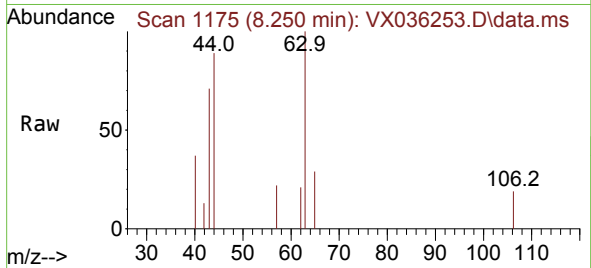




#58
2-Chloroethyl Vinyl ether
Concen: 0.510 ug/l
RT: 8.250 min Scan# 1175
Delta R.T. 0.006 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

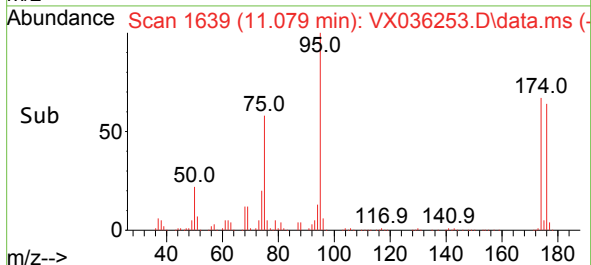
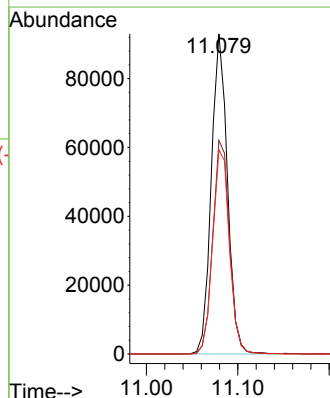
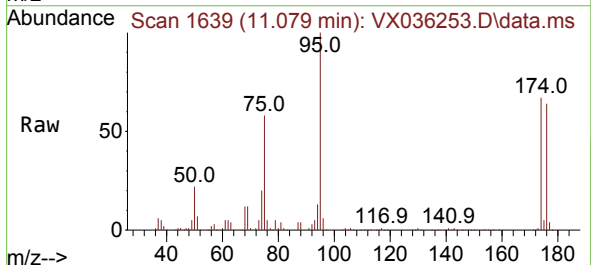
Instrument :
MSVOA_X
ClientSampleId :
MW-08DL

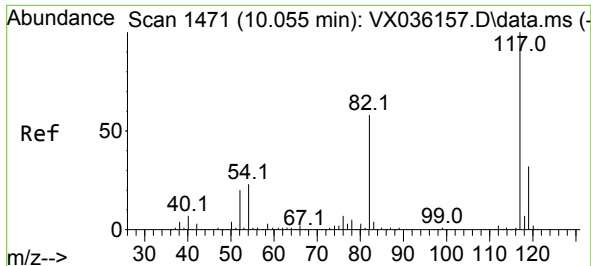
Tgt Ion: 63 Resp: 744
Ion Ratio Lower Upper
63 100
106 7.8 22.5 33.7#



#62
4-Bromofluorobenzene
Concen: 47.037 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 95 Resp: 113600
Ion Ratio Lower Upper
95 100
174 69.5 0.0 135.6
176 66.7 0.0 131.0

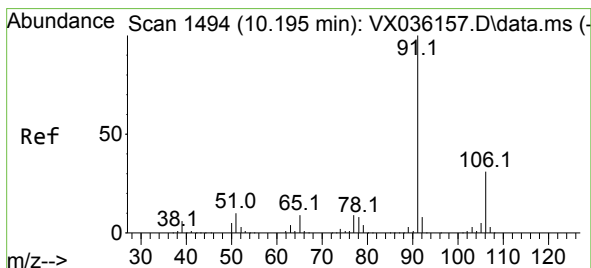
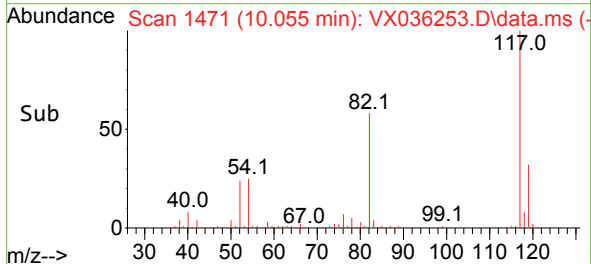
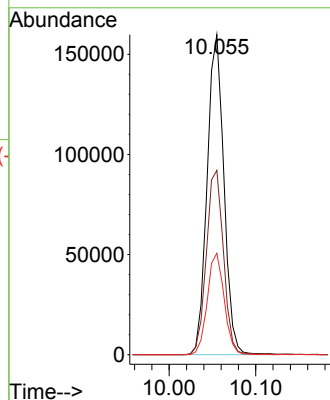
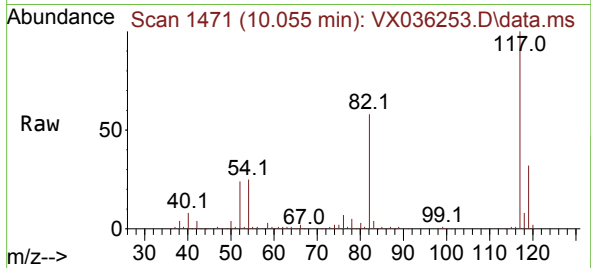




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

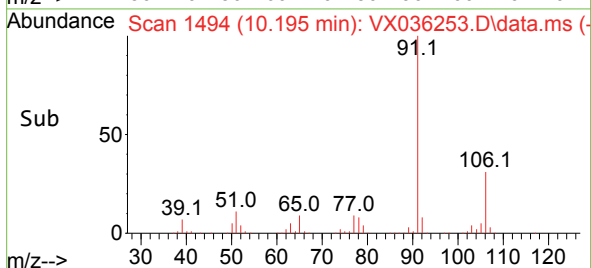
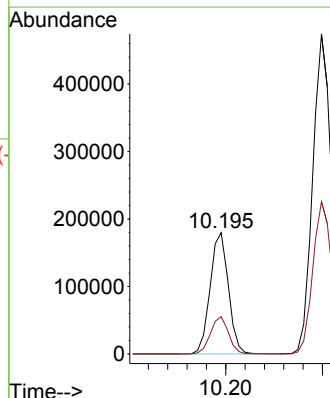
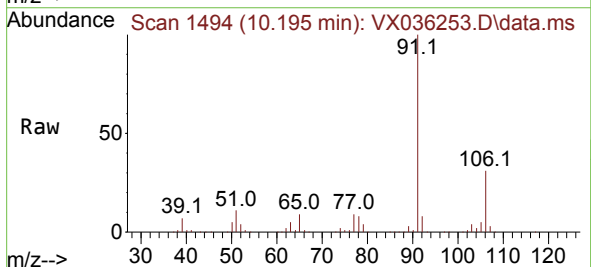
Instrument :
MSVOA_X
ClientSampleId :
MW-08DL

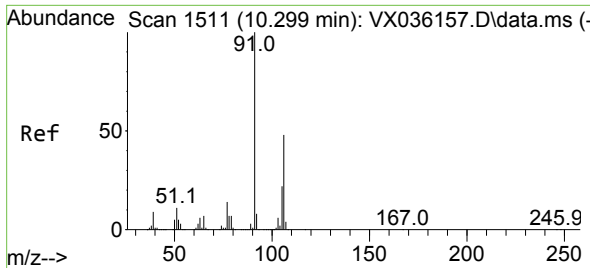
Tgt Ion:117 Resp: 215092
Ion Ratio Lower Upper
117 100
82 57.6 46.2 69.4
119 31.7 25.5 38.3



#67
Ethyl Benzene
Concen: 29.617 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 91 Resp: 235752
Ion Ratio Lower Upper
91 100
106 30.7 24.9 37.3

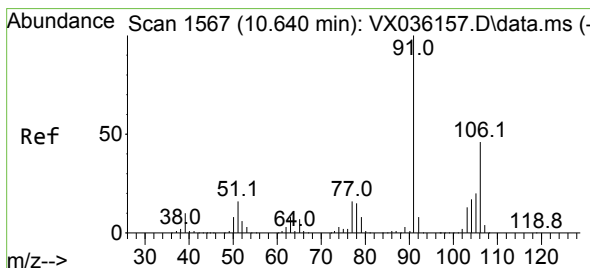
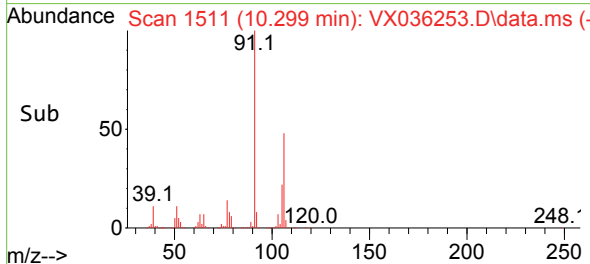
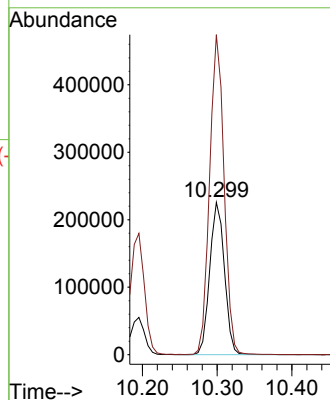
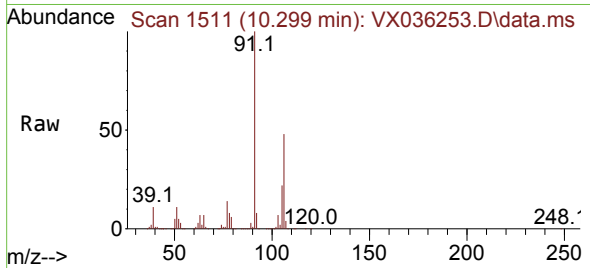




#68
m/p-Xylenes
Concen: 102.700 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

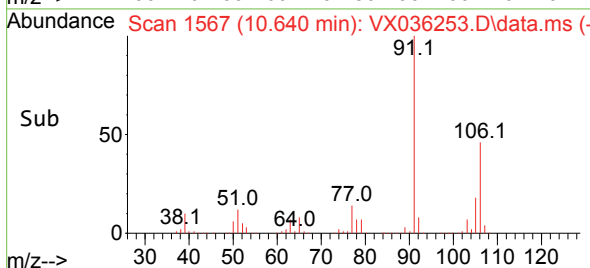
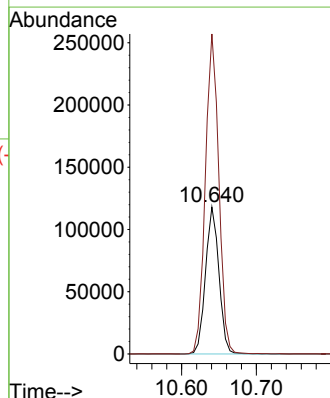
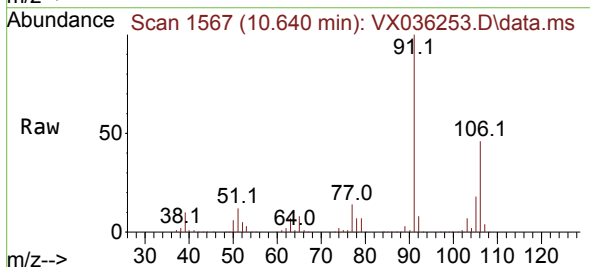
Instrument :
MSVOA_X
ClientSampleId :
MW-08DL

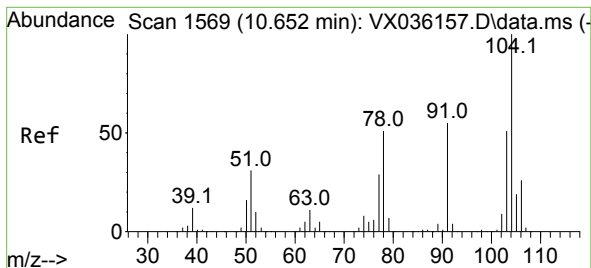
Tgt Ion:106 Resp: 308430
Ion Ratio Lower Upper
106 100
91 206.3 165.5 248.3



#69
o-Xylene
Concen: 49.623 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion:106 Resp: 147034
Ion Ratio Lower Upper
106 100
91 219.0 108.9 326.8





#70

Styrene

Concen: 1.544 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.012 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

Instrument :

MSVOA_X

ClientSampleId :

MW-08DL

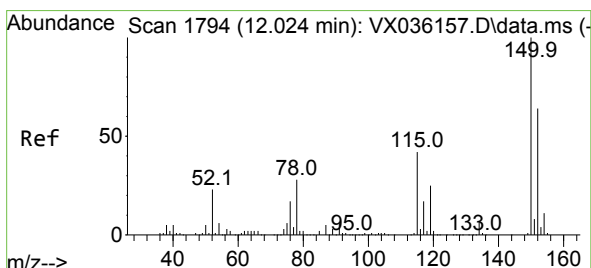
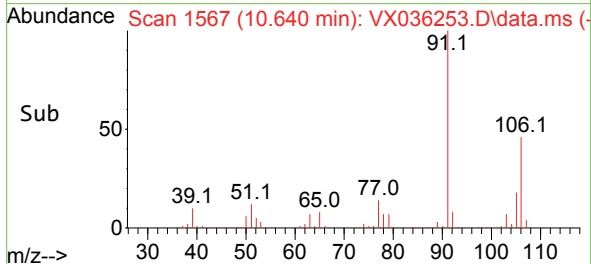
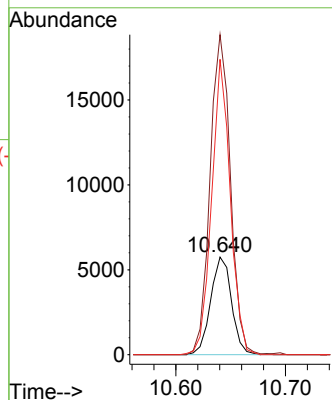
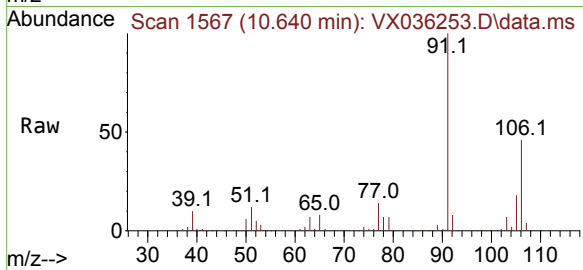
Tgt Ion:104 Resp: 7623

Ion Ratio Lower Upper

104 100

78 318.6 43.6 65.4#

103 270.0 43.6 65.4#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

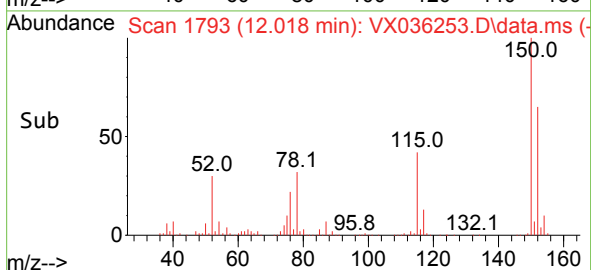
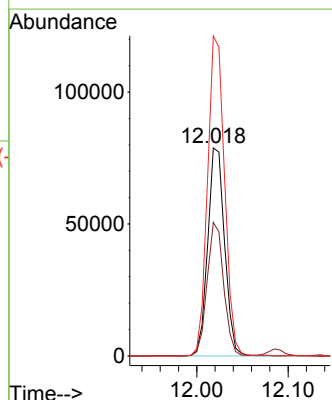
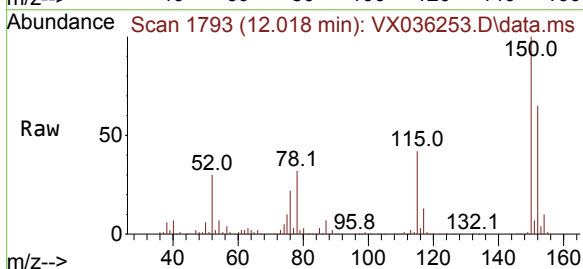
Tgt Ion:152 Resp: 100990

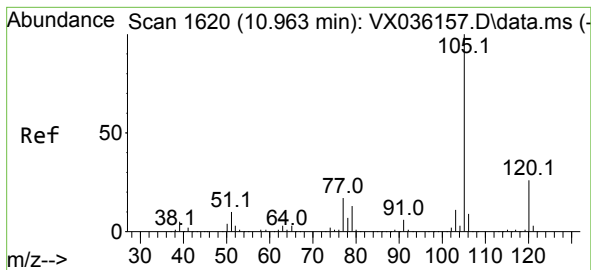
Ion Ratio Lower Upper

152 100

115 63.0 43.3 129.9

150 154.9 0.0 345.0





#73

Isopropylbenzene

Concen: 1.476 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

Instrument :

MSVOA_X

ClientSampleId :

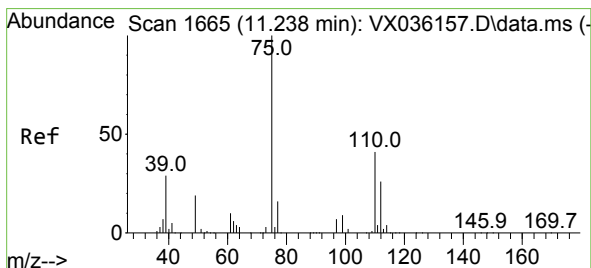
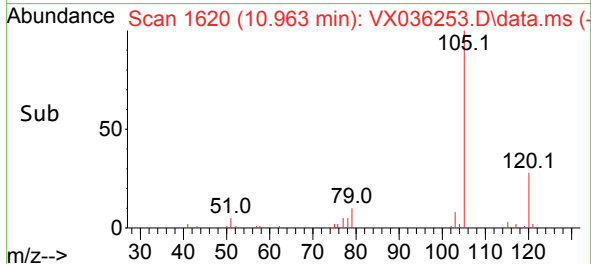
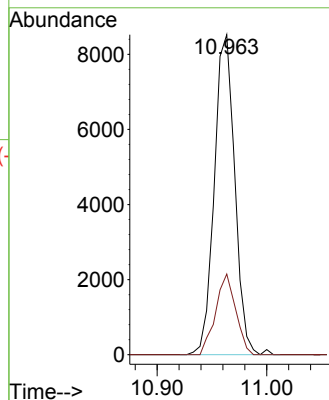
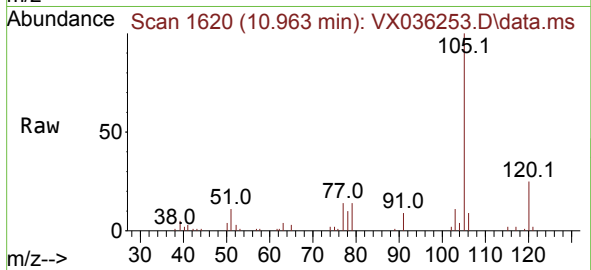
MW-08DL

Tgt Ion:105 Resp: 11061

Ion Ratio Lower Upper

105 100

120 24.8 12.9 38.6



#76

1,2,3-Trichloropropane

Concen: 0.808 ug/l

RT: 11.378 min Scan# 1688

Delta R.T. 0.140 min

Lab File: VX036253.D

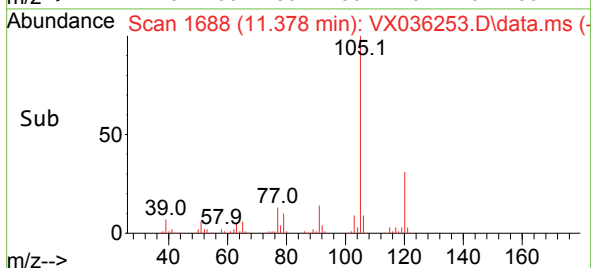
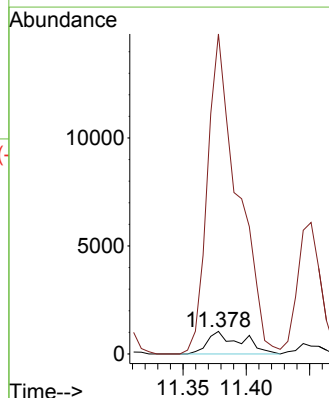
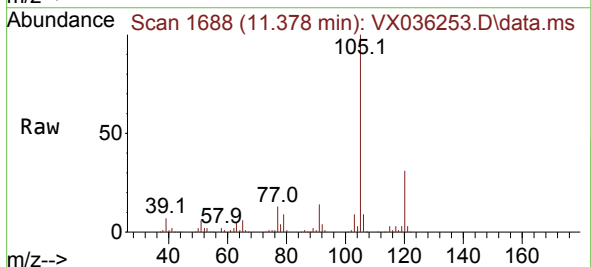
Acq: 20 Jun 2023 19:12

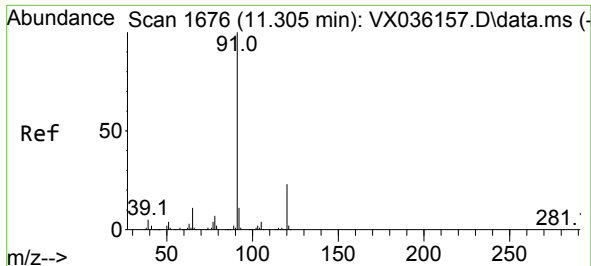
Tgt Ion: 75 Resp: 1936

Ion Ratio Lower Upper

75 100

77 1279.1 19.1 57.5#

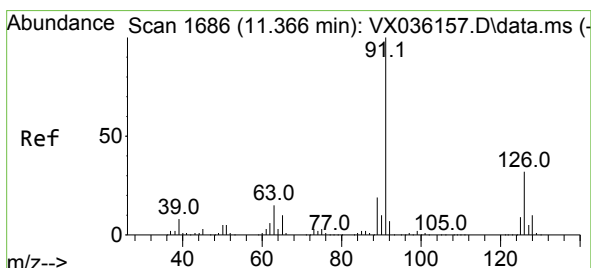
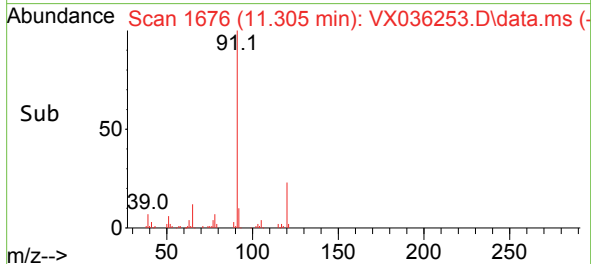
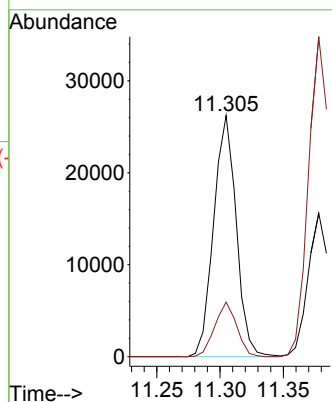
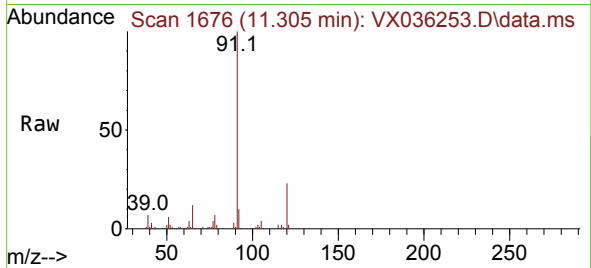




#78
n-propylbenzene
Concen: 3.694 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

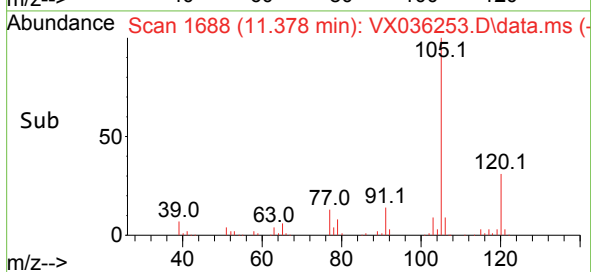
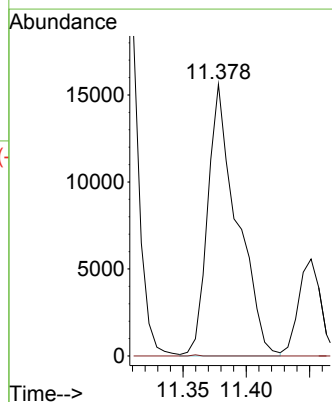
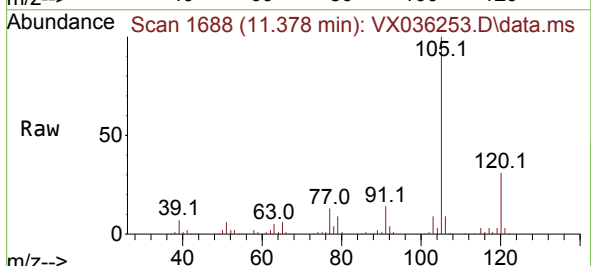
Instrument :
MSVOA_X
ClientSampleId :
MW-08DL

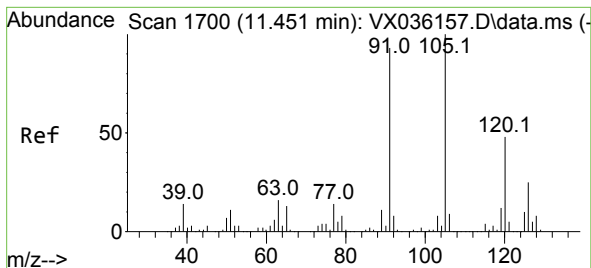
Tgt Ion: 91 Resp: 32561
Ion Ratio Lower Upper
91 100
120 21.9 11.5 34.4



#79
2-Chlorotoluene
Concen: 4.536 ug/l
RT: 11.378 min Scan# 1688
Delta R.T. 0.012 min
Lab File: VX036253.D
Acq: 20 Jun 2023 19:12

Tgt Ion: 91 Resp: 25152
Ion Ratio Lower Upper
91 100
126 0.1 16.3 48.8#





#80

1,3,5-Trimethylbenzene

Concen: 8.860 ug/l

RT: 11.451 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

Instrument :

MSVOA_X

ClientSampleId :

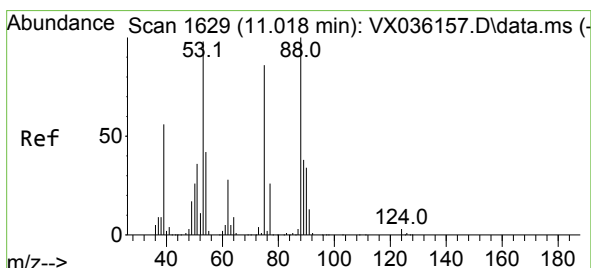
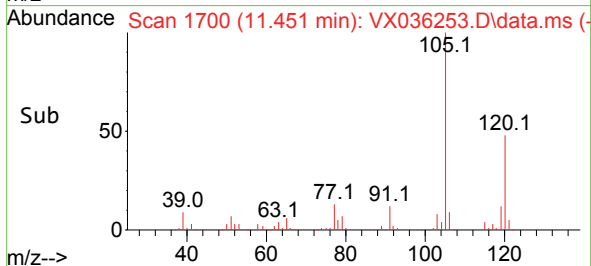
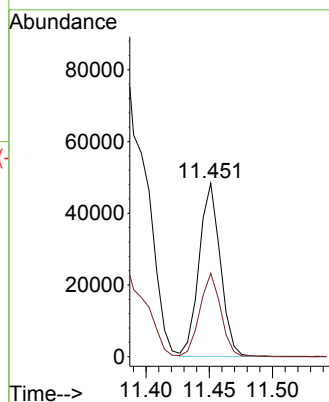
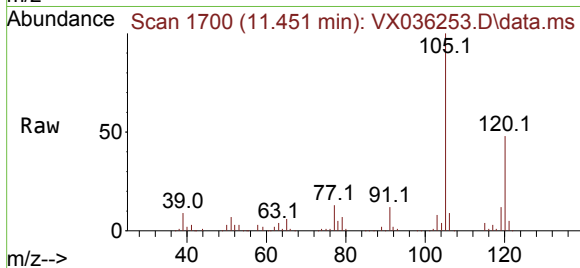
MW-08DL

Tgt Ion:105 Resp: 56533

Ion Ratio Lower Upper

105 100

120 47.7 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 93.219 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

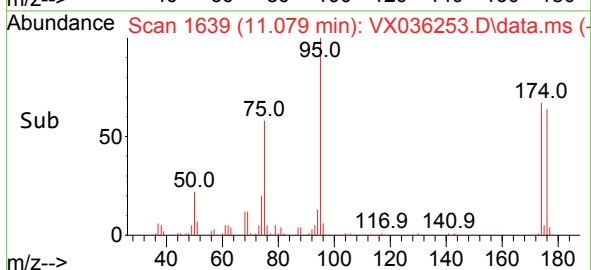
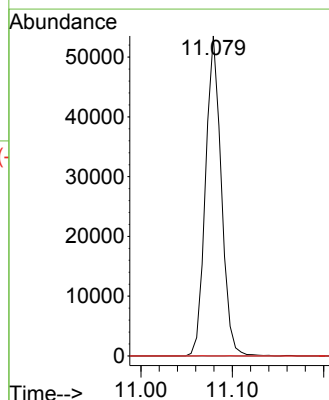
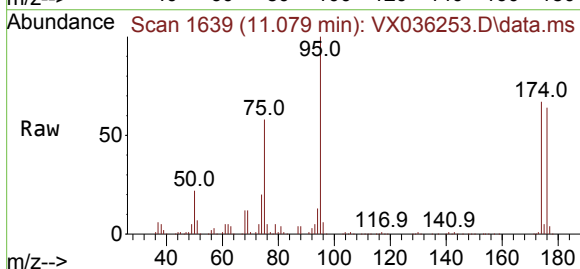
Tgt Ion: 75 Resp: 63832

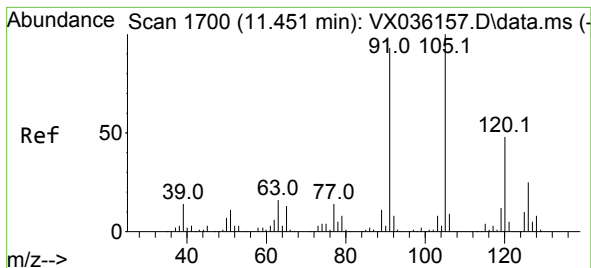
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#82

4-Chlorotoluene

Concen: 1.058 ug/l

RT: 11.451 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

Instrument :

MSVOA_X

ClientSampleId :

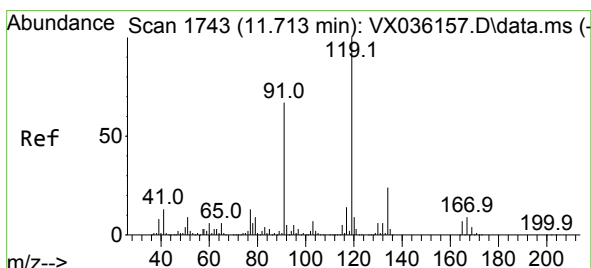
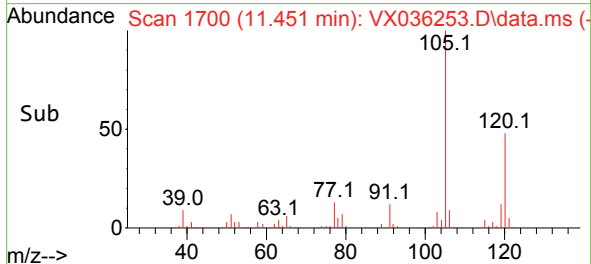
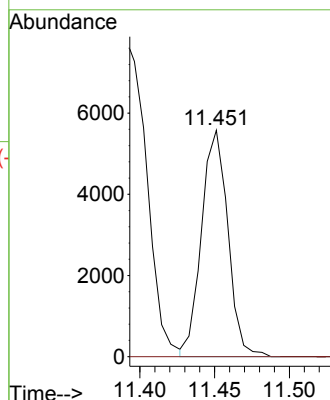
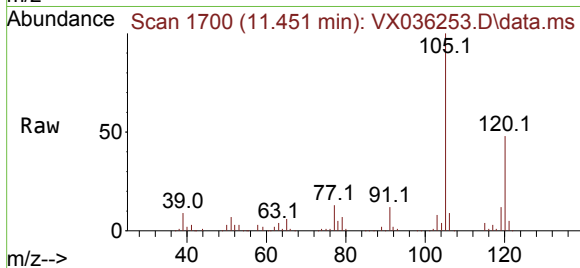
MW-08DL

Tgt Ion: 91 Resp: 6833

Ion Ratio Lower Upper

91 100

126 0.0 14.2 42.6#



#83

tert-Butylbenzene

Concen: 4.734 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.037 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

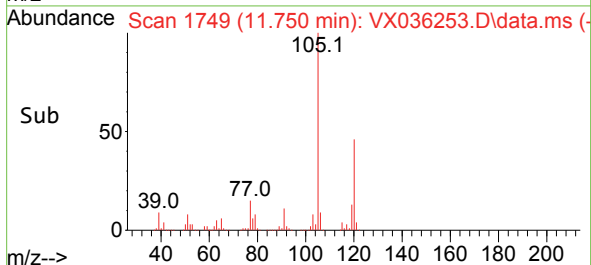
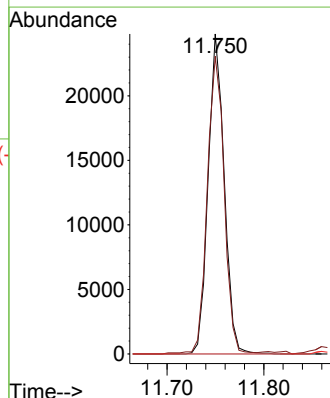
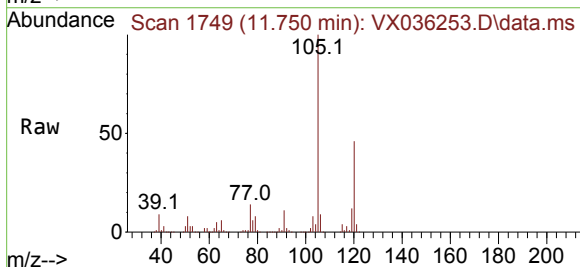
Tgt Ion: 119 Resp: 28716

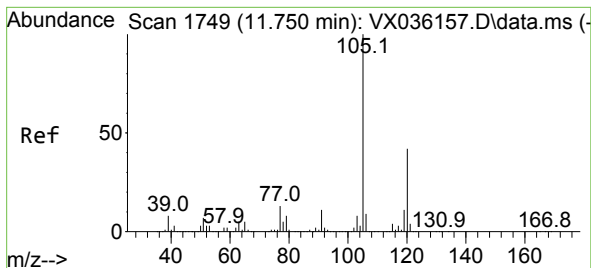
Ion Ratio Lower Upper

119 100

91 97.9 31.2 93.6#

134 0.0 11.7 35.0#





#84

1,2,4-Trimethylbenzene

Concen: 38.391 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

Instrument :

MSVOA_X

ClientSampleId :

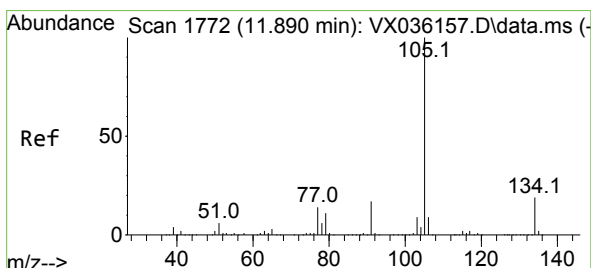
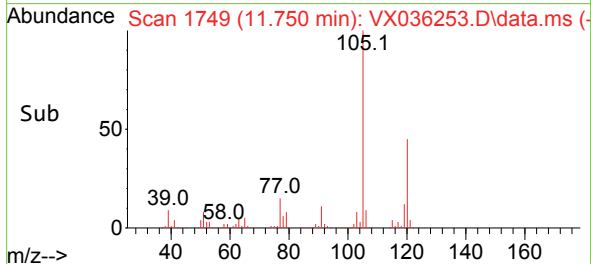
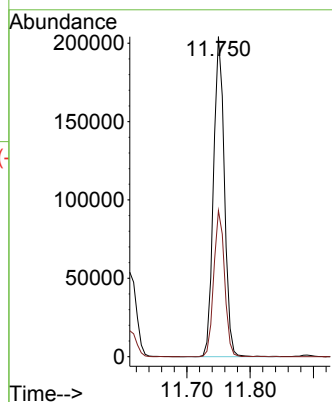
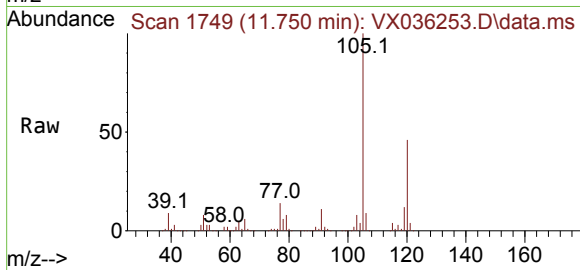
MW-08DL

Tgt Ion:105 Resp: 244343

Ion Ratio Lower Upper

105 100

120 45.3 21.2 63.6



#85

sec-Butylbenzene

Concen: 32.349 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.140 min

Lab File: VX036253.D

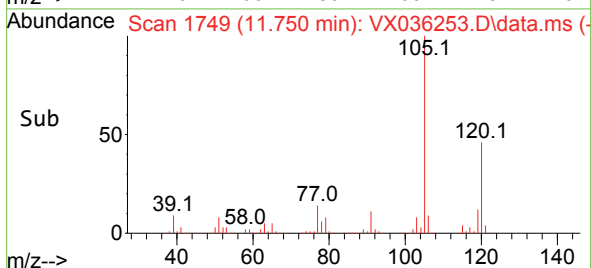
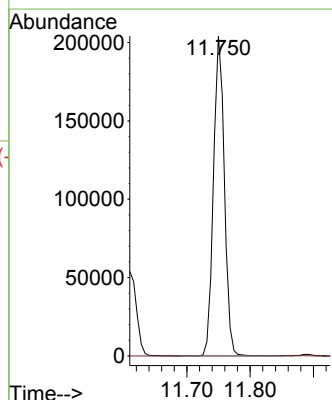
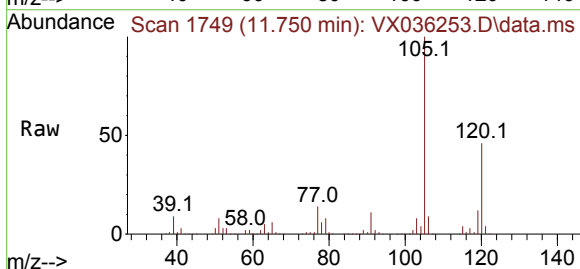
Acq: 20 Jun 2023 19:12

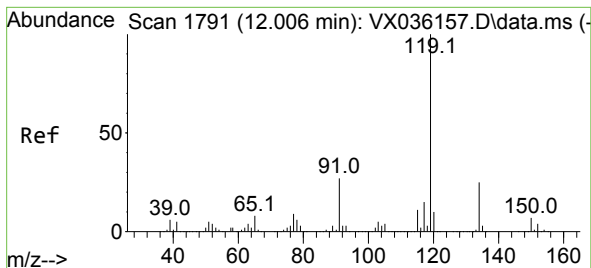
Tgt Ion:105 Resp: 244343

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.4#





#86

p-Isopropyltoluene

Concen: 0.385 ug/l

RT: 11.969 min Scan# 1

Delta R.T. -0.037 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

Instrument :

MSVOA_X

ClientSampleId :

MW-08DL

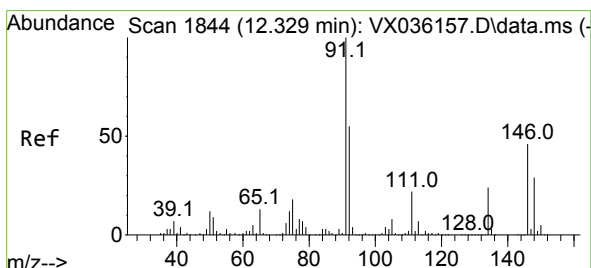
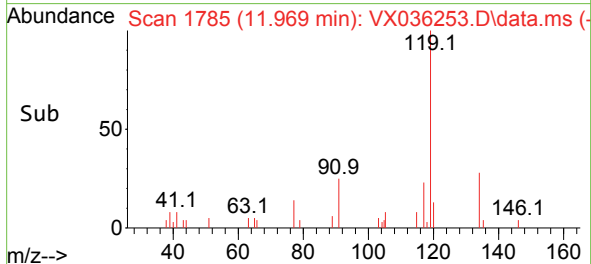
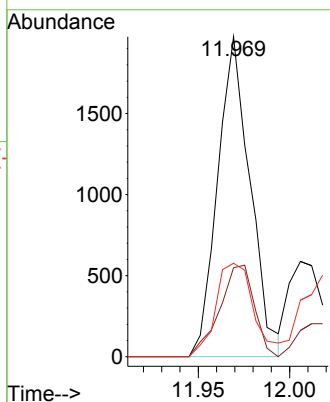
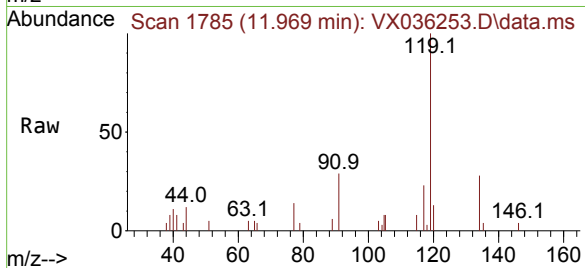
Tgt Ion:119 Resp: 2444

Ion Ratio Lower Upper

119 100

134 30.4 12.8 38.3

91 34.1 13.1 39.3



#89

n-Butylbenzene

Concen: 0.755 ug/l

RT: 12.323 min Scan# 1843

Delta R.T. -0.006 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

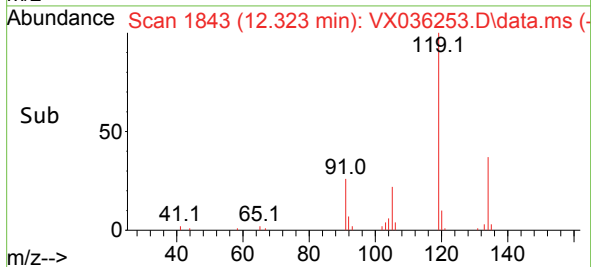
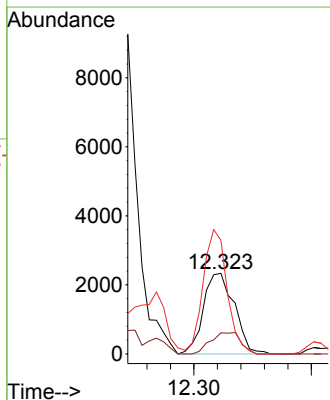
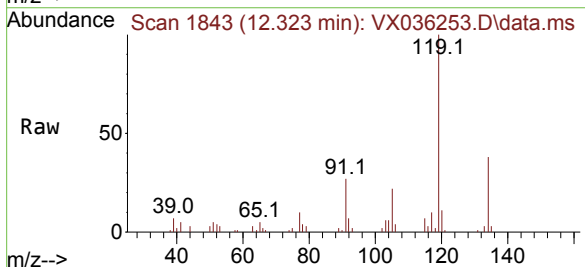
Tgt Ion: 91 Resp: 4281

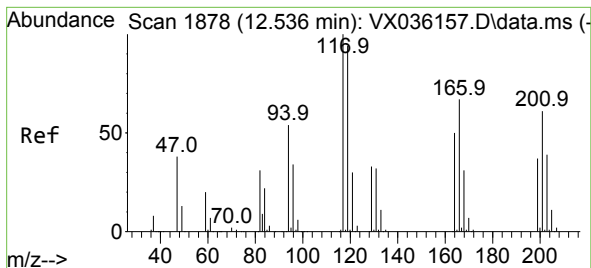
Ion Ratio Lower Upper

91 100

92 25.7 27.4 82.0#

134 119.1 12.6 37.8#





#90

Hexachloroethane

Concen: 2.313 ug/l

RT: 12.646 min Scan# 1896

Delta R.T. 0.110 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

Instrument :

MSVOA_X

ClientSampleId :

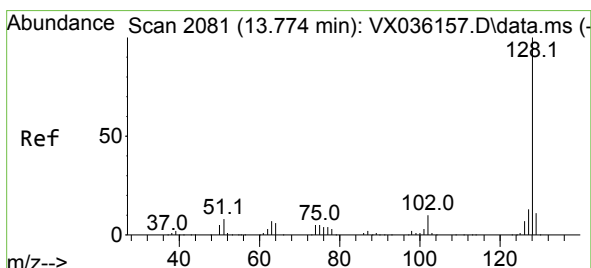
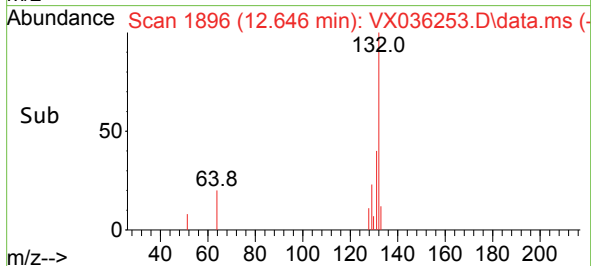
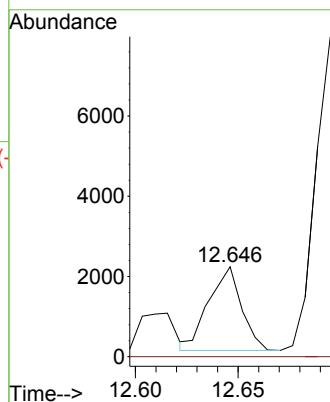
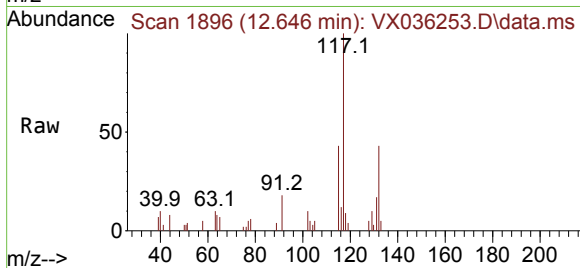
MW-08DL

Tgt Ion:117 Resp: 2306

Ion Ratio Lower Upper

117 100

201 0.0 32.9 98.6#



#95

Naphthalene

Concen: 12.493 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX036253.D

Acq: 20 Jun 2023 19:12

Tgt Ion:128 Resp: 80272

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 10.8 8.8 13.2

