

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX073123\
 Data File : VX036722.D
 Acq On : 31 Jul 2023 15:59
 Operator : JC/MD
 Sample : 03808-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1715

Quant Time: Aug 01 04:38:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 21 12:14:12 2023
 Response via : Initial Calibration

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

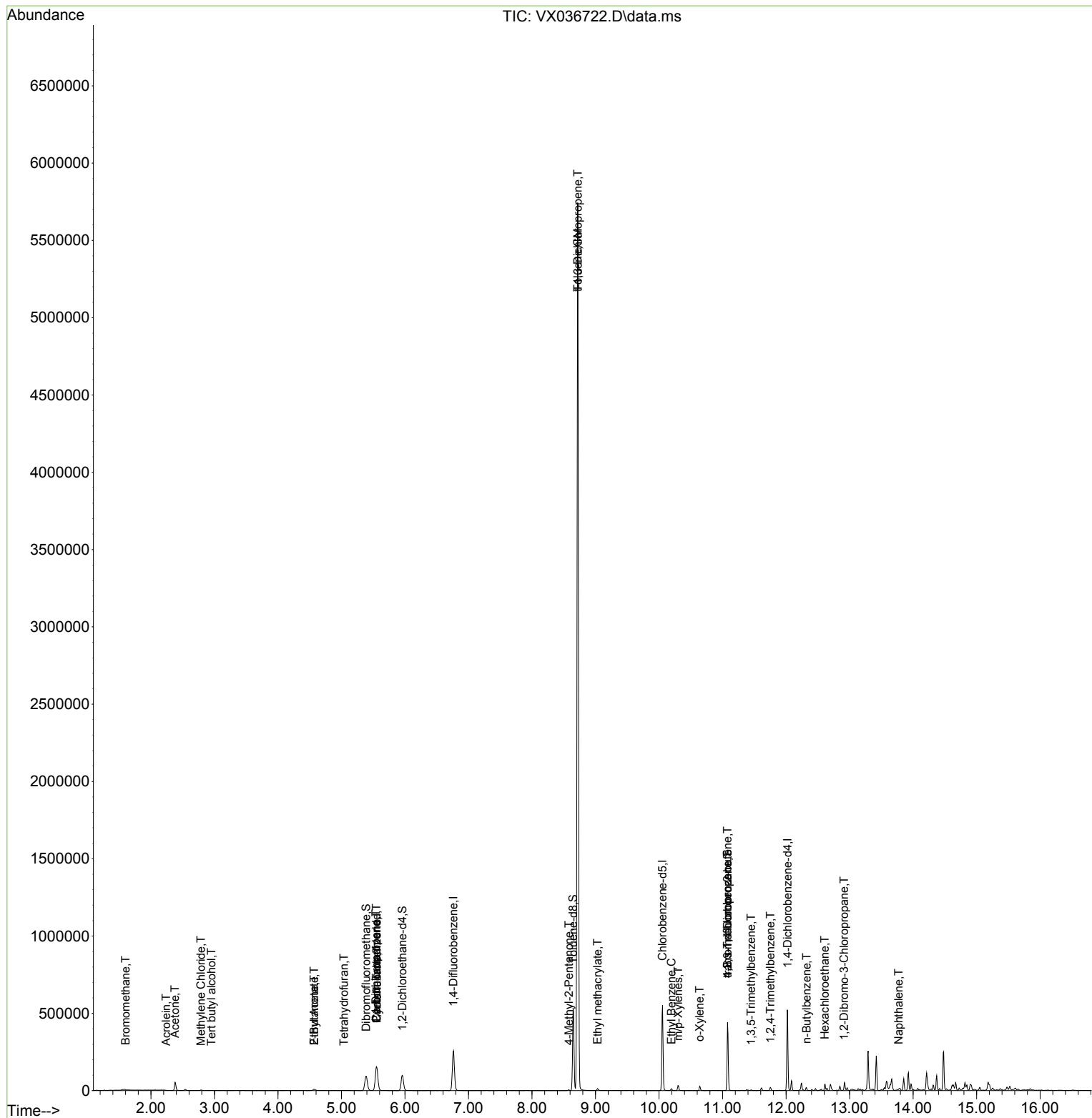
Internal Standards						
1) Pentafluorobenzene	5.556	168	146261	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	263294	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	243477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	107357	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	96849	44.752	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	89.500%		
35) Dibromofluoromethane	5.385	113	83252	46.002	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.000%		
50) Toluene-d8	8.647	98	316540	49.323	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.640%		
62) 4-Bromofluorobenzene	11.079	95	116931	48.293	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.580%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	374	0.350	ug/l #	15
11) Tert butyl alcohol	2.953	59	1151	2.247	ug/l #	90
13) Acrolein	2.239	56	186	0.636	ug/l #	14
16) Acetone	2.380	43	56392	62.795	ug/l	93
20) Methylene Chloride	2.788	84	1925	0.964	ug/l #	88
25) 2-Butanone	4.568	43	13894	9.536	ug/l #	89
29) Tetrahydrofuran	5.038	42	201	0.214	ug/l #	34
31) Cyclohexane	5.556	56	3377	1.127	ug/l #	17
36) 1,1-Dichloropropene	5.544	75	12186	4.518	ug/l #	50
37) Ethyl Acetate	4.568	43	13894	4.551	ug/l #	69
38) Carbon Tetrachloride	5.550	117	16001	5.580	ug/l #	16
51) 4-Methyl-2-Pentanone	8.580	43	3287	1.130	ug/l	99
52) Toluene	8.720	92	2155937	438.428	ug/l	98
53) t-1,3-Dichloropropene	8.720	75	26452	7.775	ug/l #	1
56) Ethyl methacrylate	9.031	69	2042	0.607	ug/l #	71
67) Ethyl Benzene	10.195	91	7279	0.742	ug/l	97
68) m/p-Xylenes	10.299	106	7688	2.102	ug/l	94
69) o-Xylene	10.640	106	6285	1.721	ug/l	97
76) 1,2,3-Trichloropropane	11.079	75	60667	24.025	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.451	105	2170	0.292	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.079	75	60667	54.454	ug/l #	5
84) 1,2,4-Trimethylbenzene	11.756	105	8258	1.111	ug/l	80
89) n-Butylbenzene	12.323	91	2360	0.352	ug/l #	7
90) Hexachloroethane	12.609	117	1825	1.201	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	12.914	75	154	0.221	ug/l #	9
95) Naphthalene	13.774	128	6627	0.854	ug/l #	87

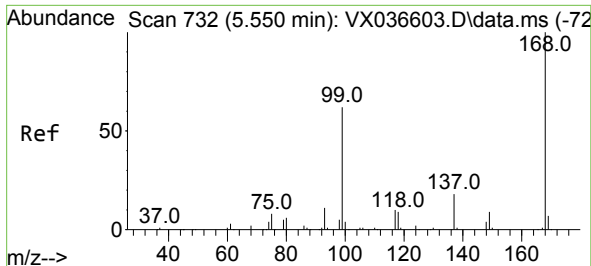
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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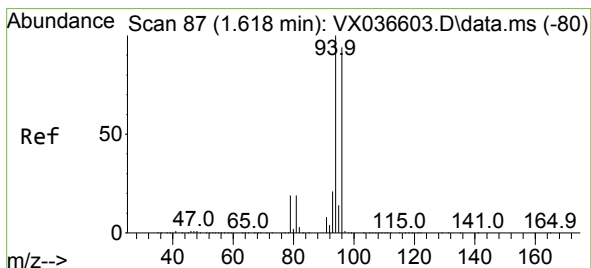
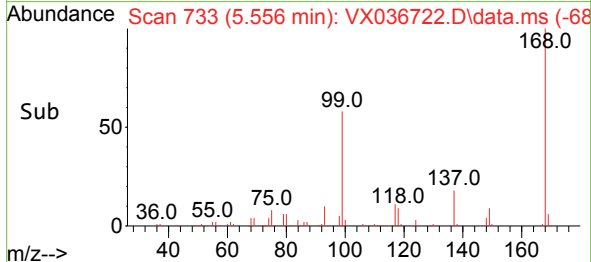
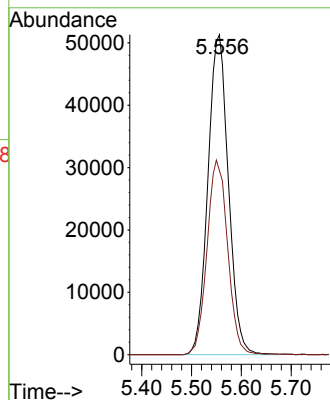
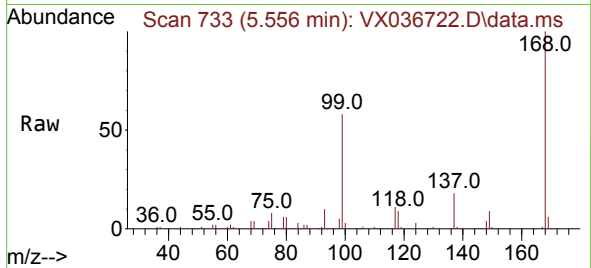




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

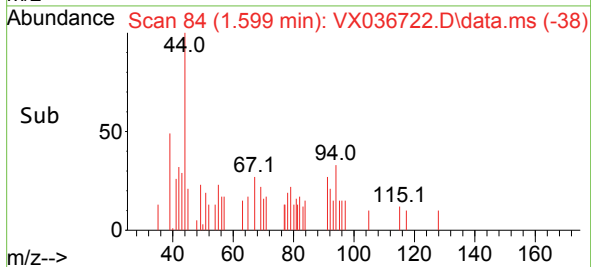
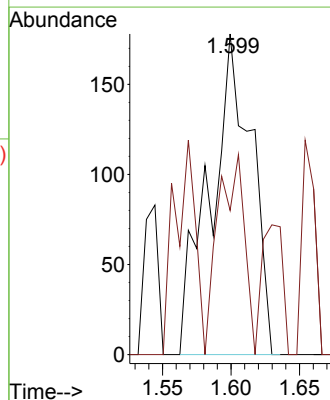
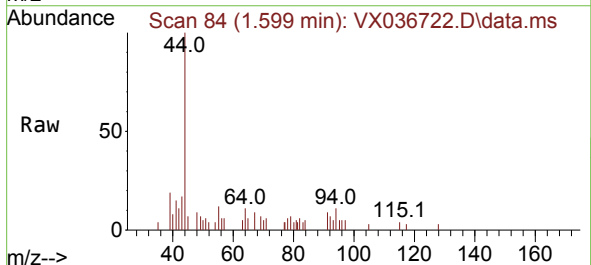
Instrument :
MSVOA_X
ClientSampleId :
1715

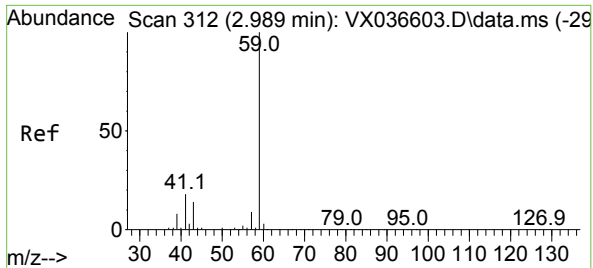
Tgt Ion:168 Resp: 146261
Ion Ratio Lower Upper
168 100
99 57.6 56.6 85.0



#5
Bromomethane
Concen: 0.350 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.018 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion: 94 Resp: 374
Ion Ratio Lower Upper
94 100
96 11.2 74.6 111.8#





#11

Tert butyl alcohol

Concen: 2.247 ug/l

RT: 2.953 min Scan# 306

Delta R.T. -0.037 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

Instrument :

MSVOA_X

ClientSampleId :

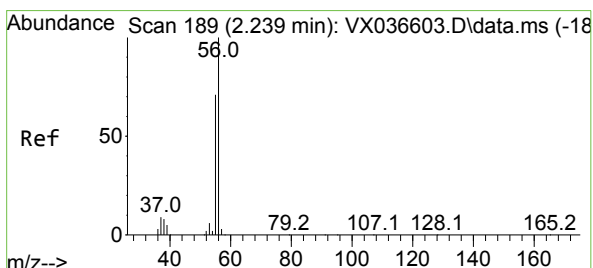
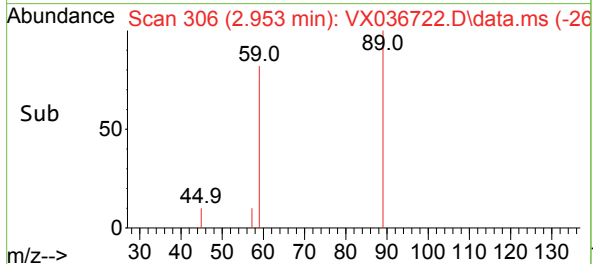
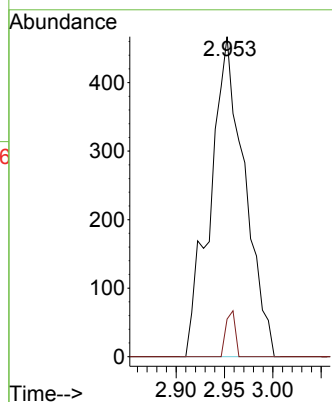
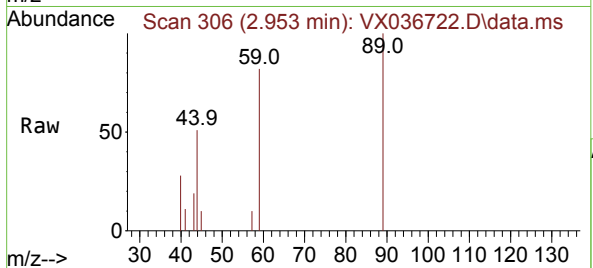
1715

Tgt Ion: 59 Resp: 1151

Ion Ratio Lower Upper

59 100

57 3.9 6.0 9.0#



#13

Acrolein

Concen: 0.636 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX036722.D

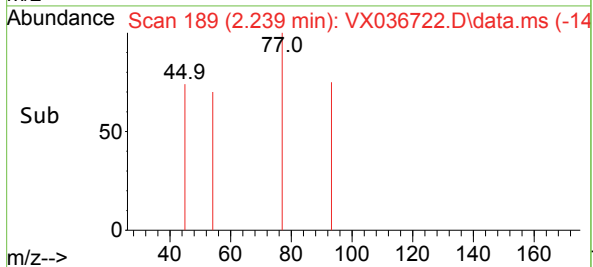
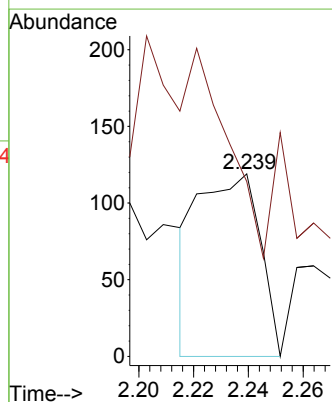
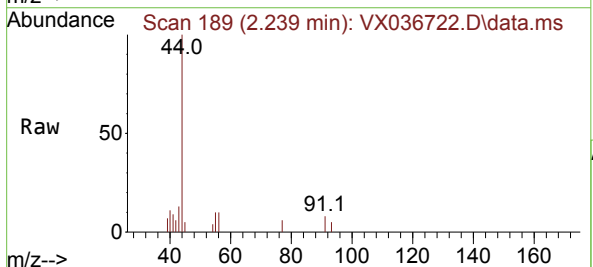
Acq: 31 Jul 2023 15:59

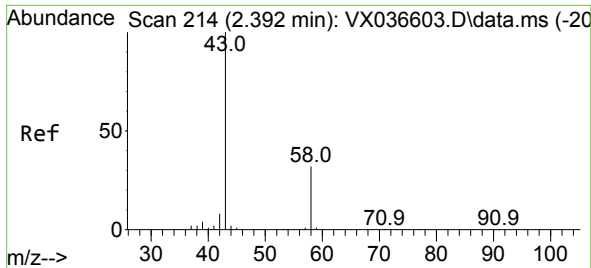
Tgt Ion: 56 Resp: 186

Ion Ratio Lower Upper

56 100

55 0.0 57.1 85.7#

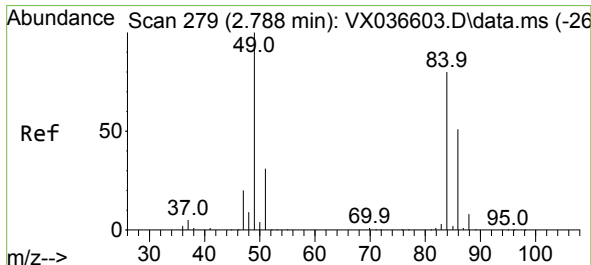
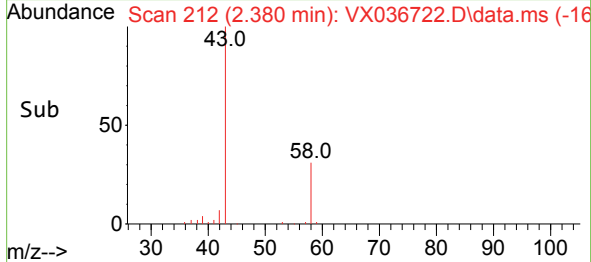
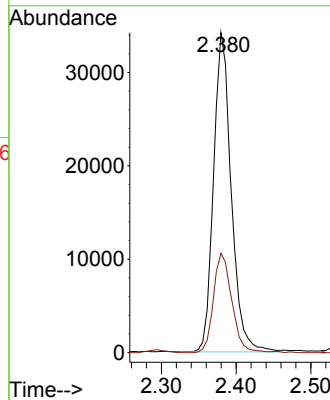
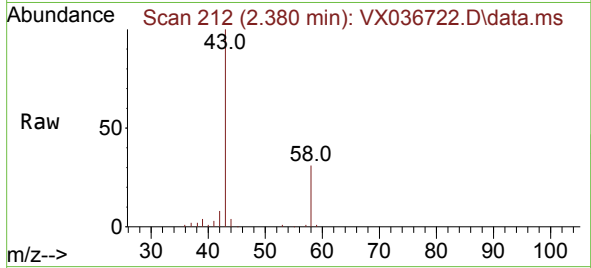




#16
Acetone
Concen: 62.795 ug/l
RT: 2.380 min Scan# 214
Delta R.T. -0.012 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

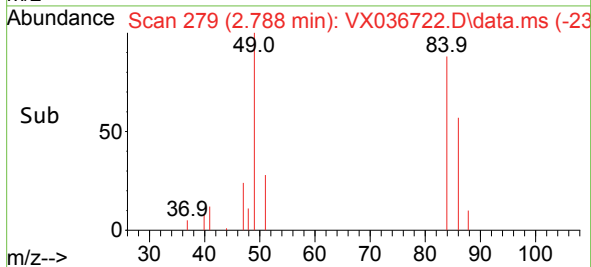
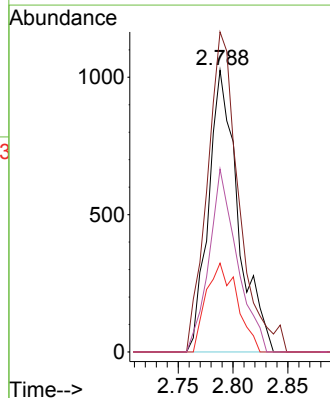
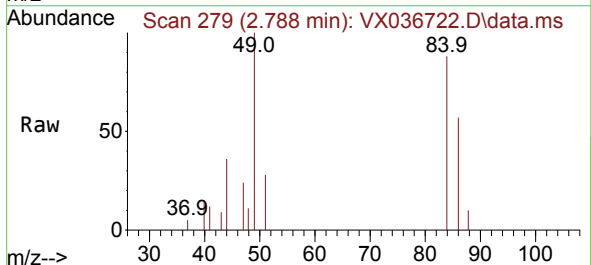
Instrument :
MSVOA_X
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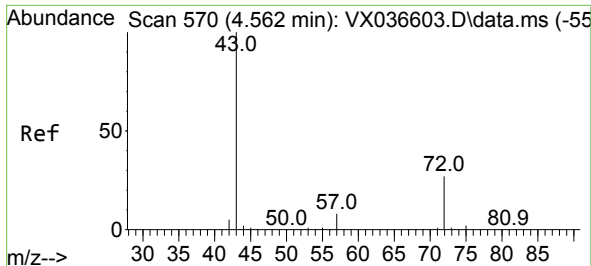
Tgt Ion: 43 Resp: 56392
Ion Ratio Lower Upper
43 100
58 31.1 21.9 32.9



#20
Methylene Chloride
Concen: 0.964 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion: 84 Resp: 1925
Ion Ratio Lower Upper
84 100
49 113.5 103.6 155.4
51 31.5 33.8 50.6#
86 64.9 49.4 74.0





#25

2-Butanone

Concen: 9.536 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

Instrument :

MSVOA_X

ClientSampleId :

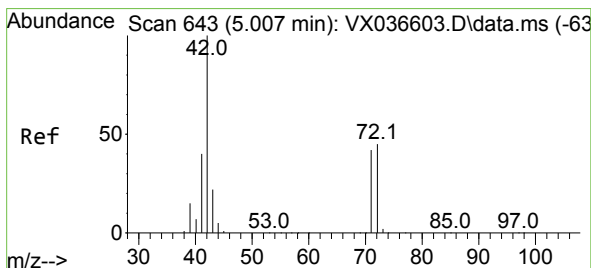
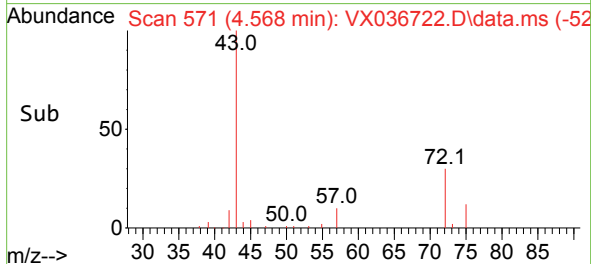
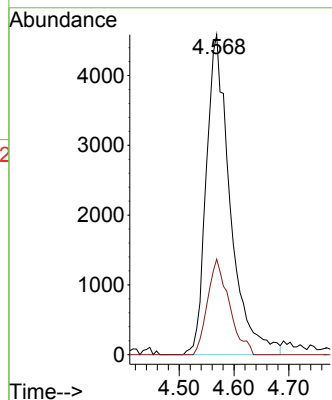
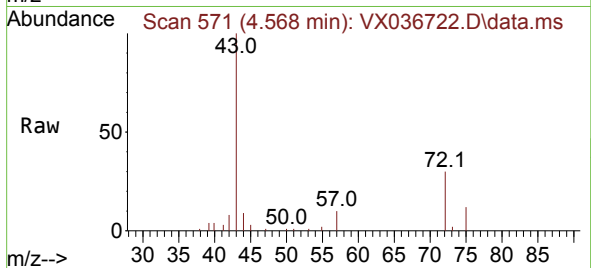
1715

Tgt Ion: 43 Resp: 13894

Ion Ratio Lower Upper

43 100

72 29.9 19.4 29.2#



#29

Tetrahydrofuran

Concen: 0.214 ug/l

RT: 5.038 min Scan# 648

Delta R.T. 0.031 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

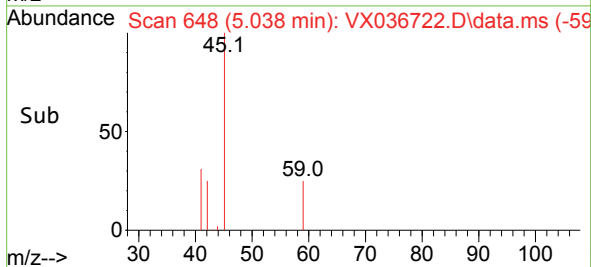
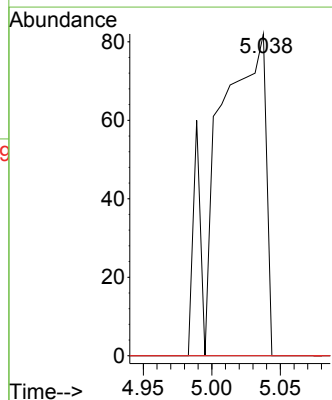
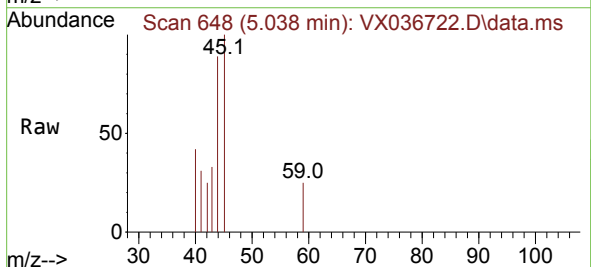
Tgt Ion: 42 Resp: 201

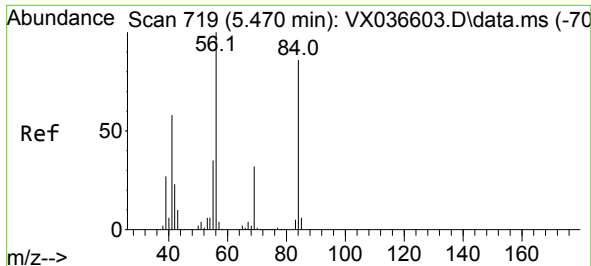
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 0.0 32.2 48.2#

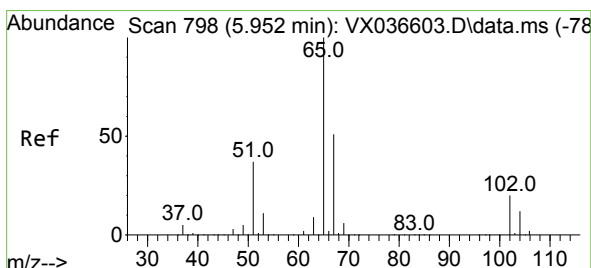
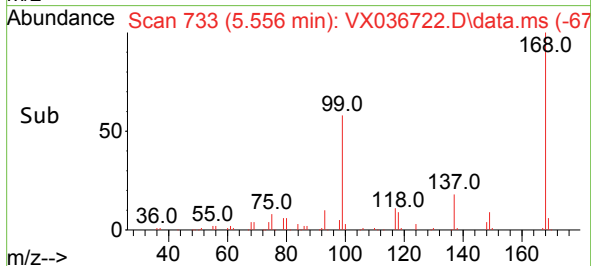
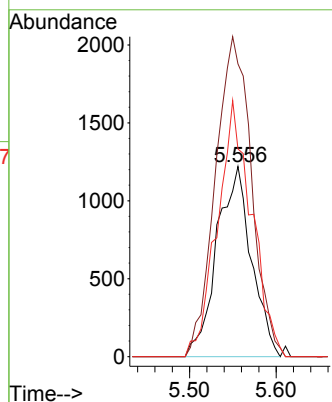
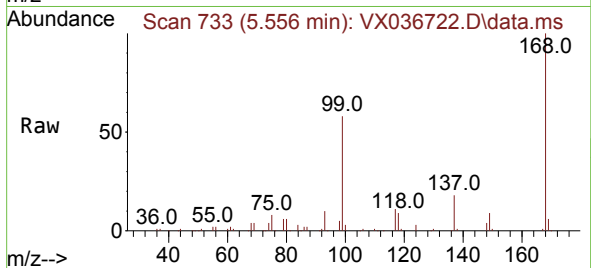




#31
Cyclohexane
Concen: 1.127 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.085 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

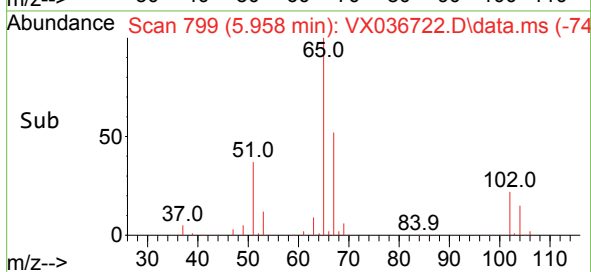
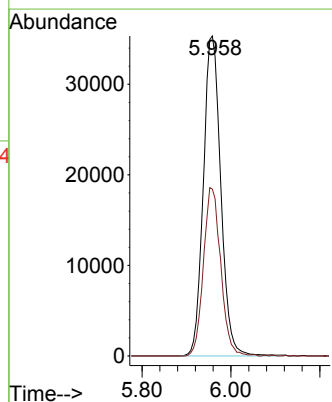
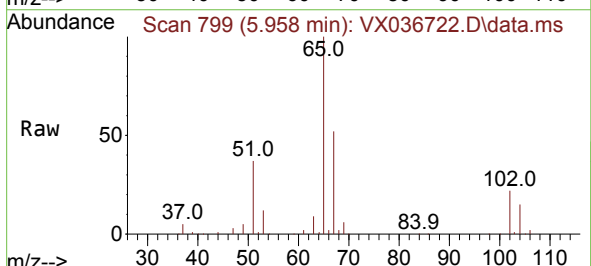
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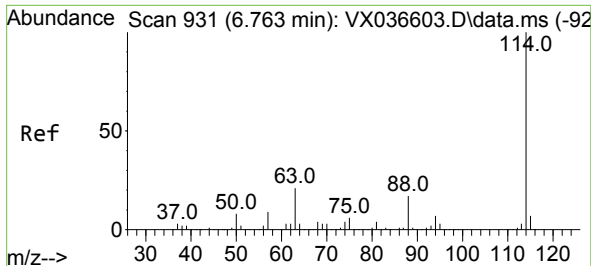
Tgt Ion: 56 Resp: 3377
Ion Ratio Lower Upper
56 100
69 153.9 23.4 35.2#
84 109.2 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 44.752 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion: 65 Resp: 96849
Ion Ratio Lower Upper
65 100
67 52.0 0.0 100.2

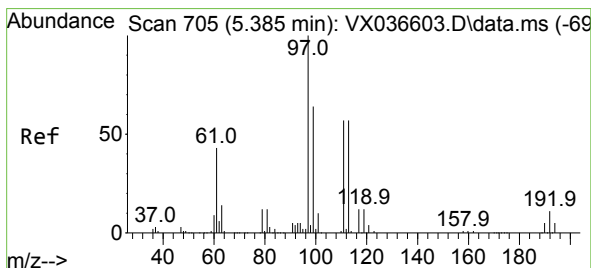
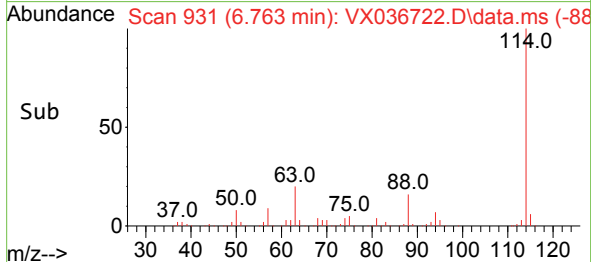
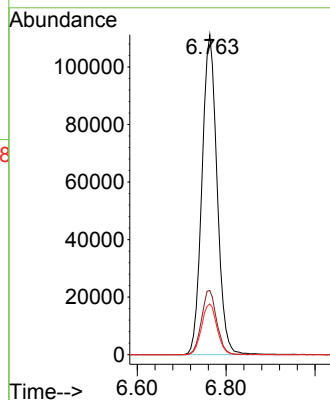
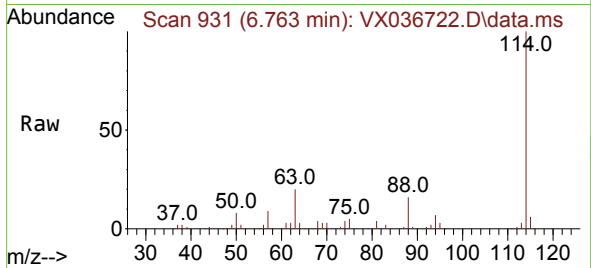




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

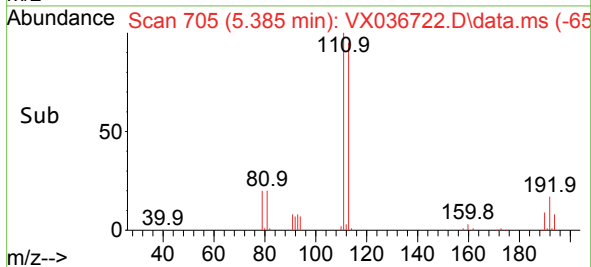
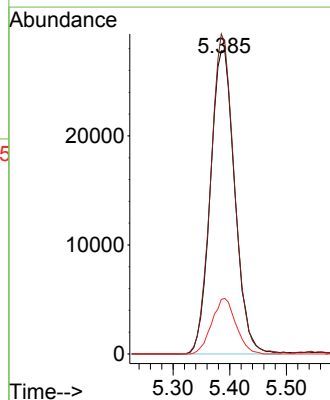
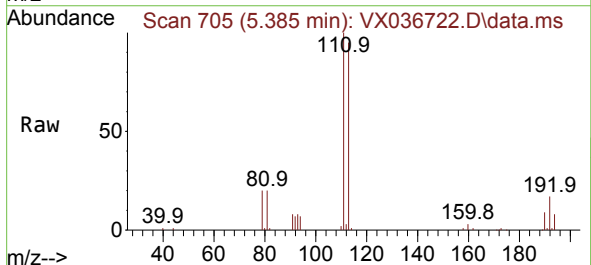
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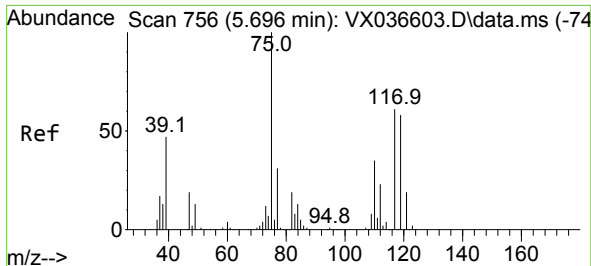
Tgt Ion:114 Resp: 263294
Ion Ratio Lower Upper
114 100
63 20.1 0.0 45.0
88 15.8 0.0 36.6



#35
Dibromofluoromethane
Concen: 46.002 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion:113 Resp: 83252
Ion Ratio Lower Upper
113 100
111 102.5 82.9 124.3
192 18.1 13.3 19.9

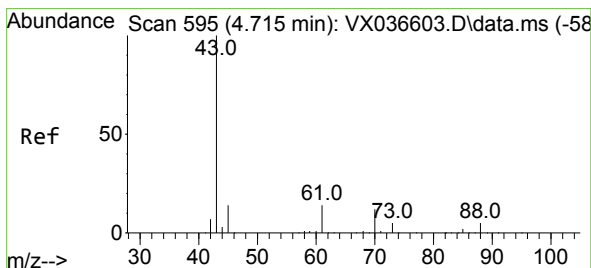
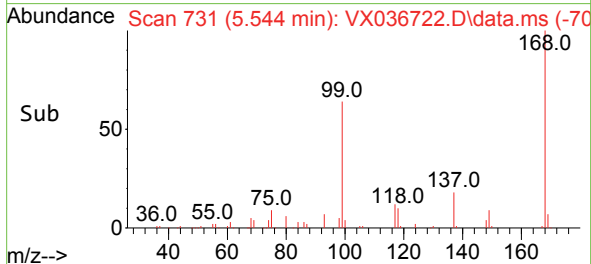
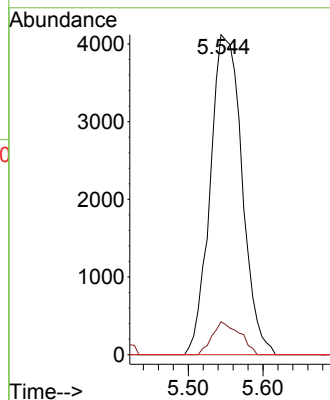
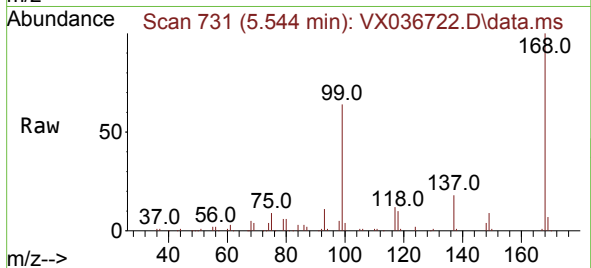




#36
1,1-Dichloropropene
Concen: 4.518 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.152 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

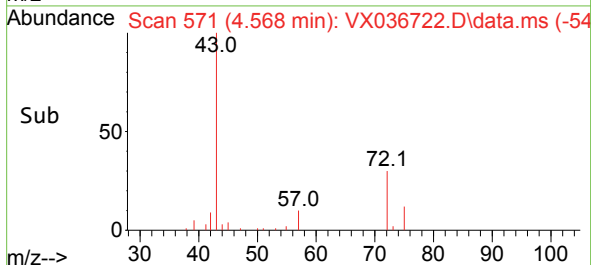
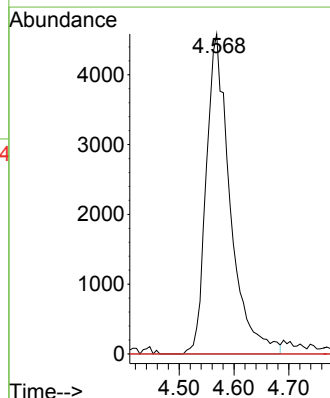
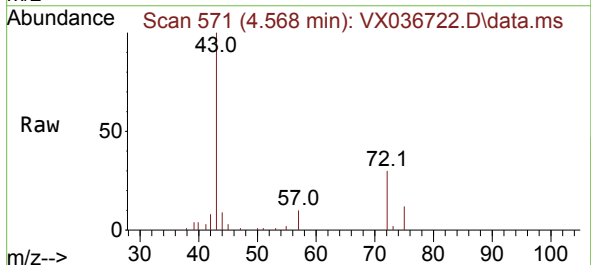
Instrument :
MSVOA_X
ClientSampleId :
1715

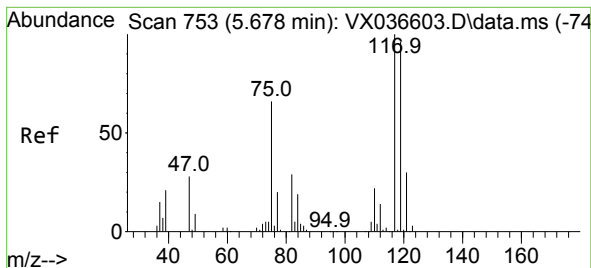
Tgt Ion: 75 Resp: 12186
Ion Ratio Lower Upper
75 100
110 8.9 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 4.551 ug/l
RT: 4.568 min Scan# 571
Delta R.T. -0.146 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion: 43 Resp: 13894
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 0.0 8.3 12.5#





#38

Carbon Tetrachloride

Concen: 5.580 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.128 min

Lab File: VX036722.D

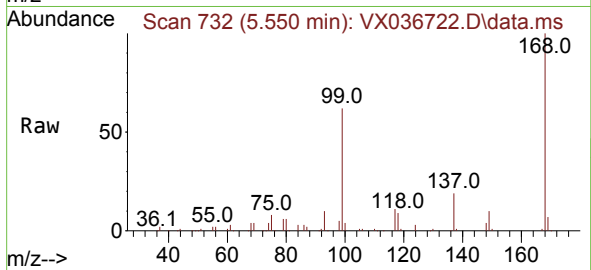
Acq: 31 Jul 2023 15:59

Instrument :

MSVOA_X

ClientSampleId :

1715



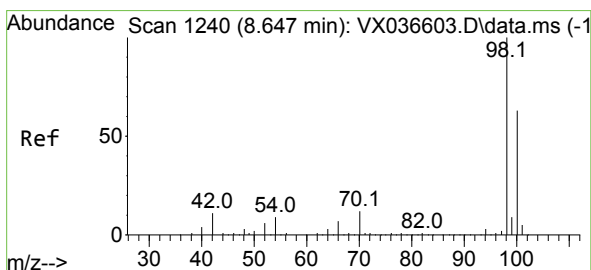
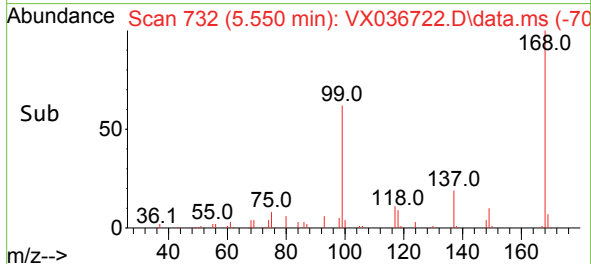
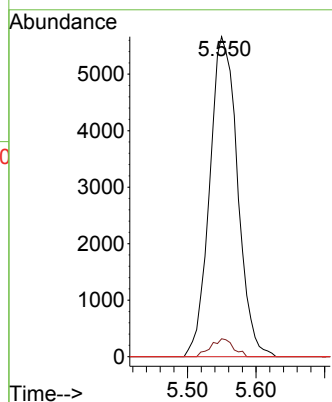
Tgt Ion:117 Resp: 16001

Ion Ratio Lower Upper

117 100

119 5.6 78.2 117.2#

121 0.0 24.4 36.6#



#50

Toluene-d8

Concen: 49.323 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX036722.D

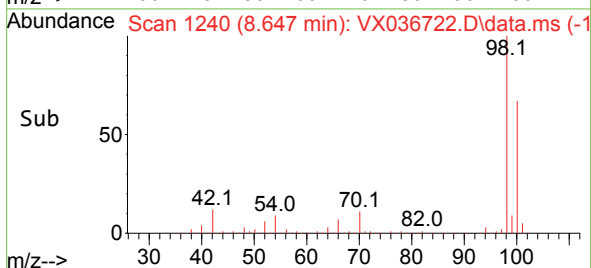
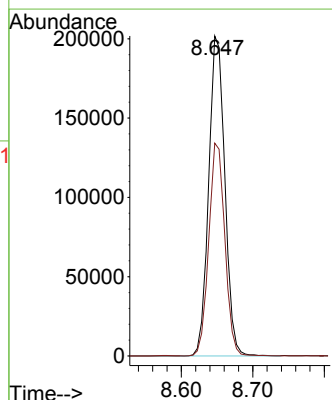
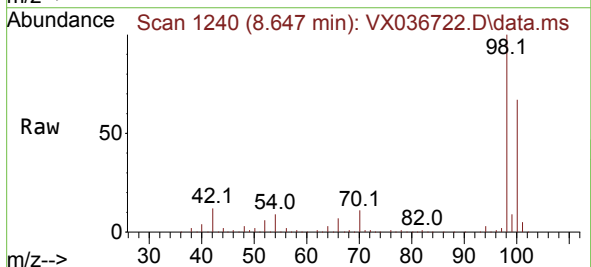
Acq: 31 Jul 2023 15:59

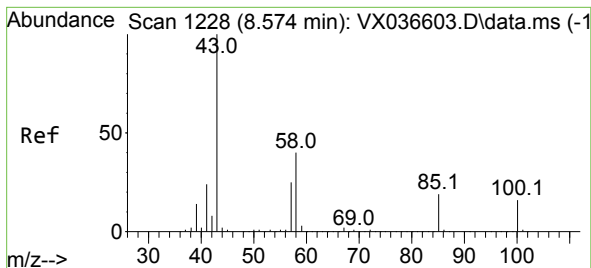
Tgt Ion: 98 Resp: 316540

Ion Ratio Lower Upper

98 100

100 66.3 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 1.130 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

Instrument :

MSVOA_X

ClientSampleId :

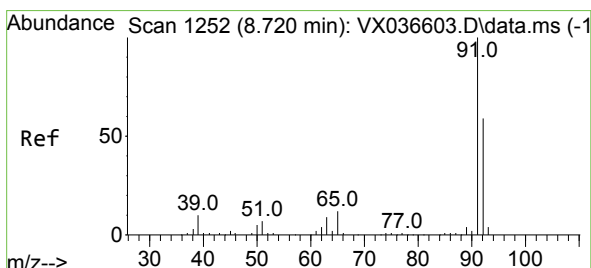
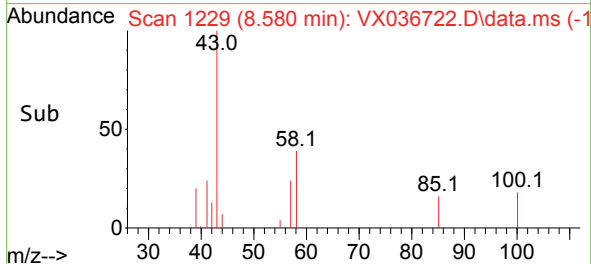
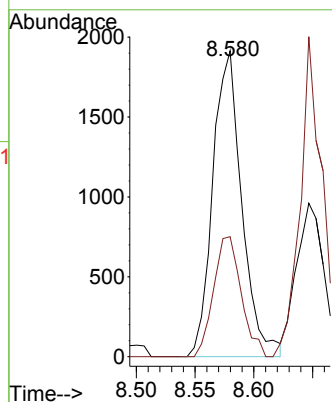
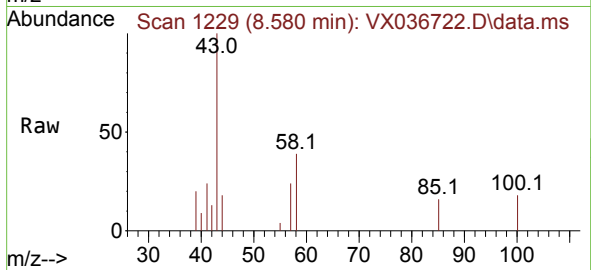
1715

Tgt Ion: 43 Resp: 3287

Ion Ratio Lower Upper

43 100

58 37.5 30.4 45.6



#52

Toluene

Concen: 438.428 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX036722.D

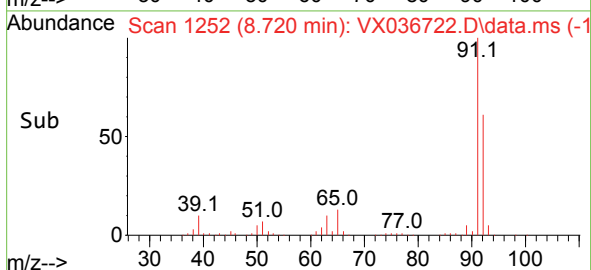
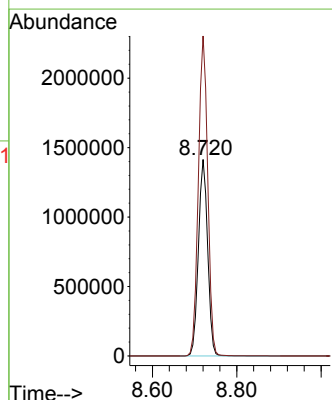
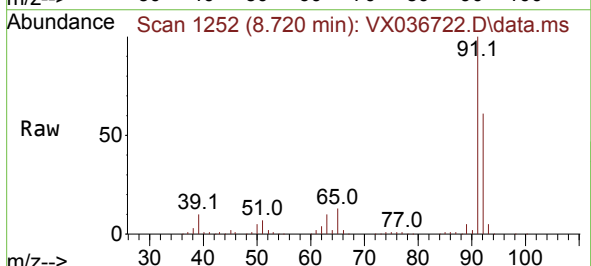
Acq: 31 Jul 2023 15:59

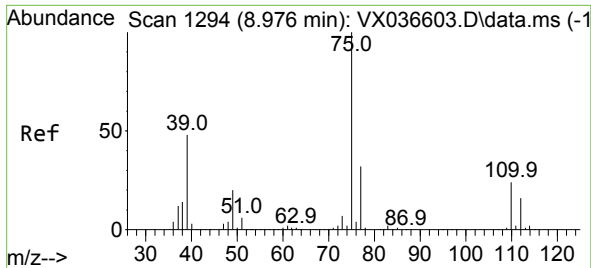
Tgt Ion: 92 Resp: 2155937

Ion Ratio Lower Upper

92 100

91 165.4 134.2 201.2

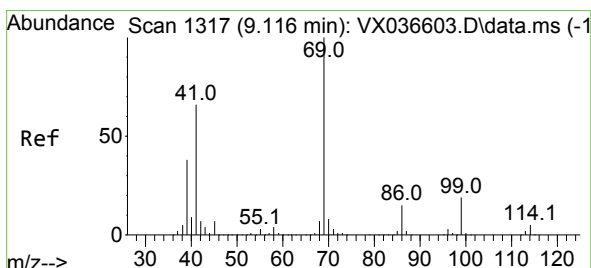
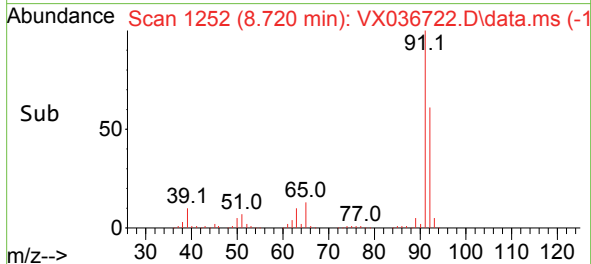
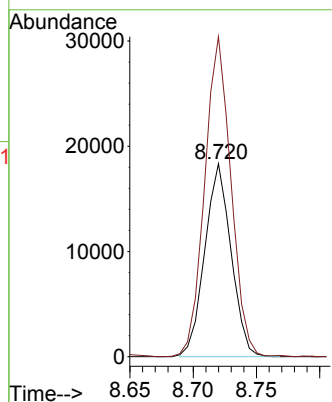
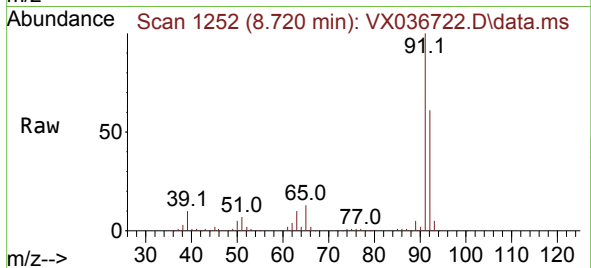




#53
t-1,3-Dichloropropene
Concen: 7.775 ug/l
RT: 8.720 min Scan# 11715
Delta R.T. -0.256 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

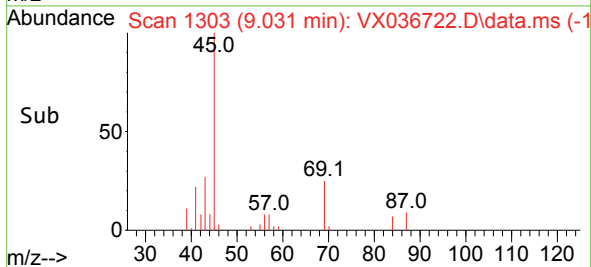
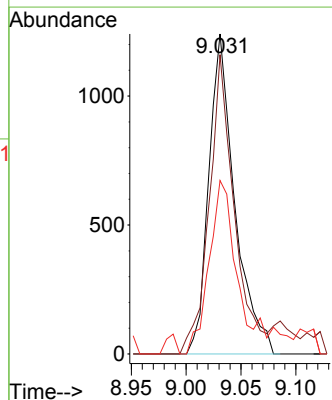
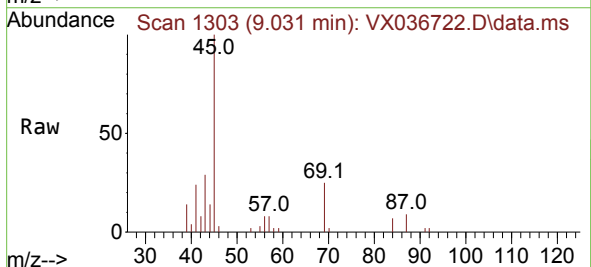
Instrument :
MSVOA_X
ClientSampleId :
1715

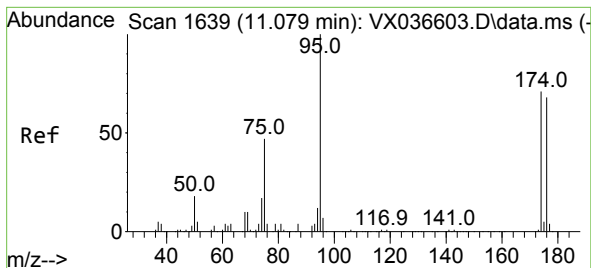
Tgt Ion: 75 Resp: 26452
Ion Ratio Lower Upper
75 100
77 165.2 25.7 38.5#



#56
Ethyl methacrylate
Concen: 0.607 ug/l
RT: 9.031 min Scan# 1303
Delta R.T. -0.085 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion: 69 Resp: 2042
Ion Ratio Lower Upper
69 100
41 90.6 56.8 85.2#
39 64.2 32.0 48.0#

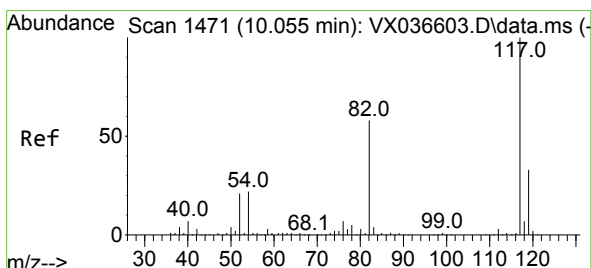
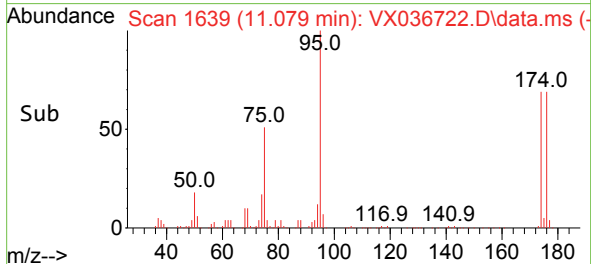
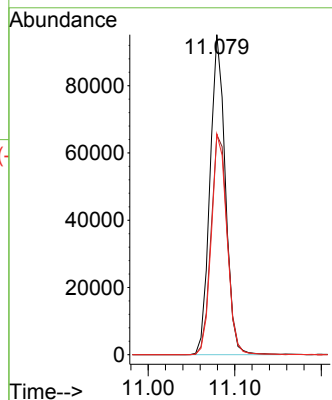
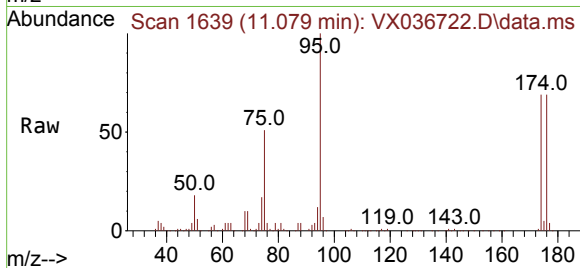




#62
4-Bromofluorobenzene
Concen: 48.293 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

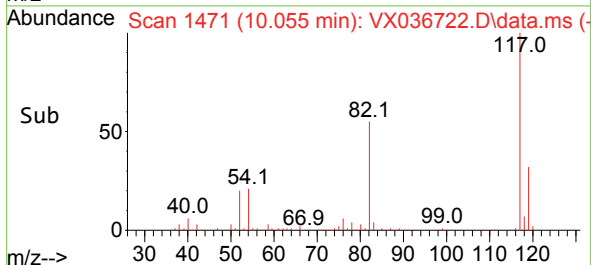
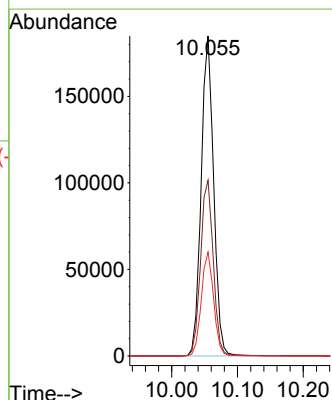
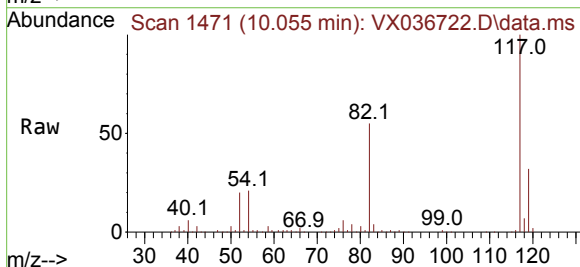
Instrument :
MSVOA_X
ClientSampleId :
1715

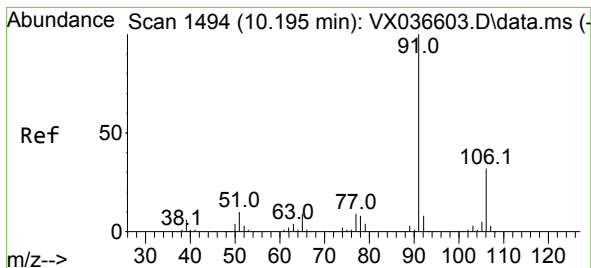
Tgt Ion: 95 Resp: 116931
Ion Ratio Lower Upper
95 100
174 73.1 0.0 135.6
176 70.5 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion: 117 Resp: 243477
Ion Ratio Lower Upper
117 100
82 54.9 46.2 69.4
119 32.5 25.5 38.3





#67

Ethyl Benzene

Concen: 0.742 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

Instrument :

MSVOA_X

ClientSampleId :

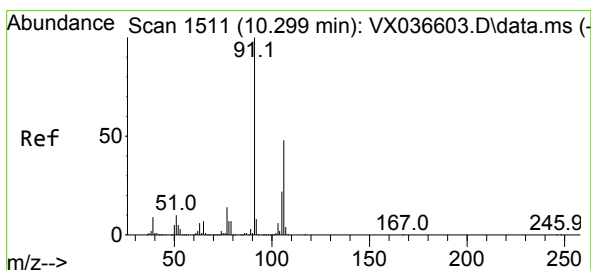
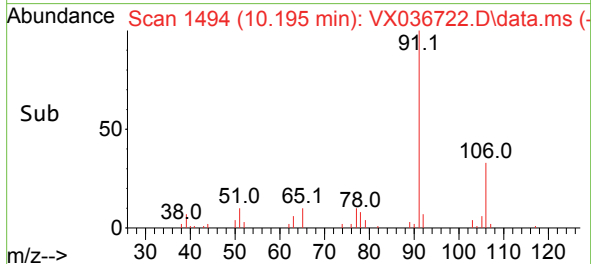
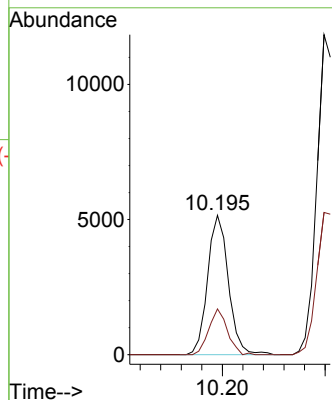
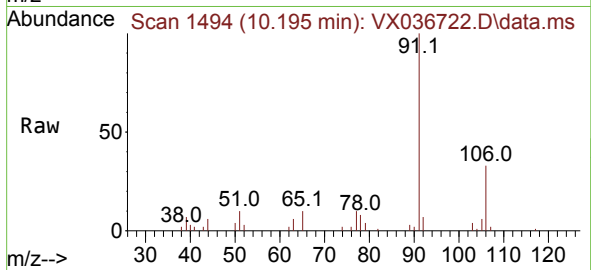
1715

Tgt Ion: 91 Resp: 7279

Ion Ratio Lower Upper

91 100

106 32.9 24.9 37.3



#68

m/p-Xylenes

Concen: 2.102 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX036722.D

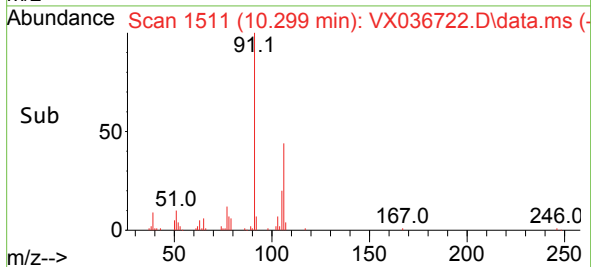
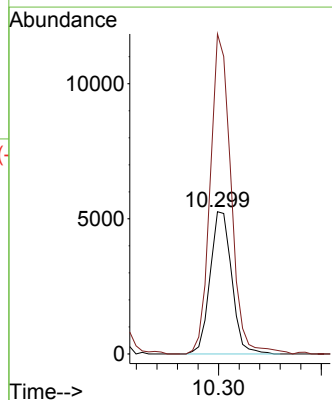
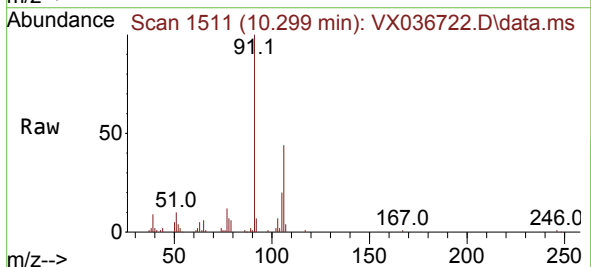
Acq: 31 Jul 2023 15:59

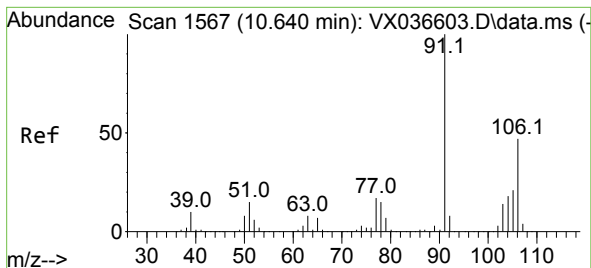
Tgt Ion: 106 Resp: 7688

Ion Ratio Lower Upper

106 100

91 215.9 165.5 248.3





#69

o-Xylene

Concen: 1.721 ug/l

RT: 10.640 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

Instrument :

MSVOA_X

ClientSampleId :

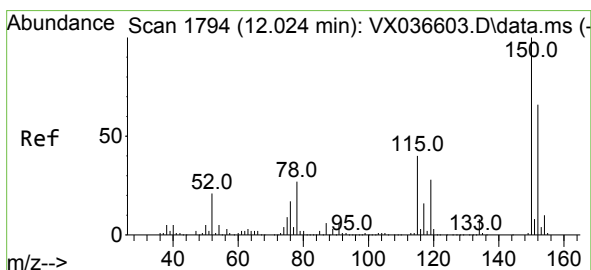
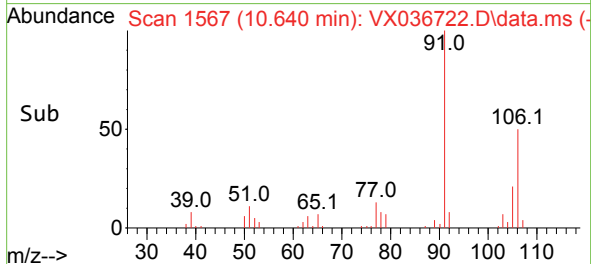
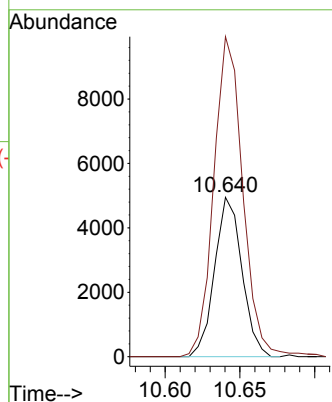
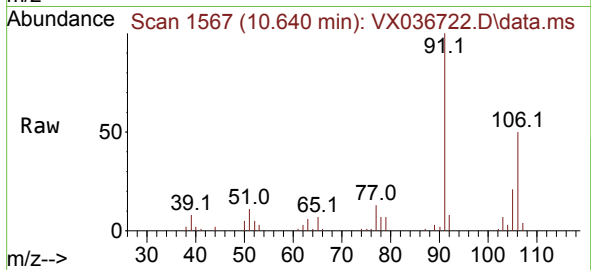
1715

Tgt Ion:106 Resp: 6285

Ion Ratio Lower Upper

106 100

91 213.7 108.9 326.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

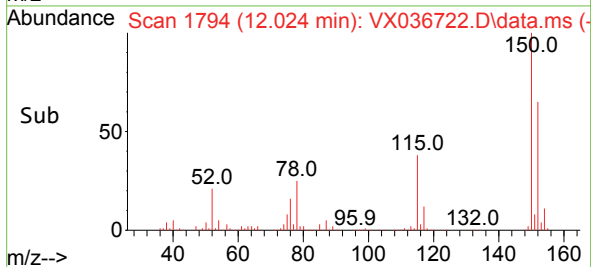
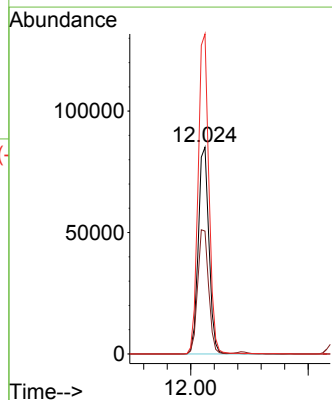
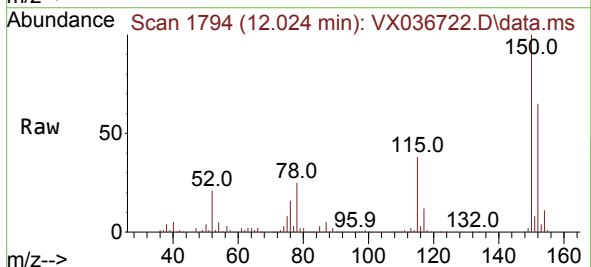
Tgt Ion:152 Resp: 107357

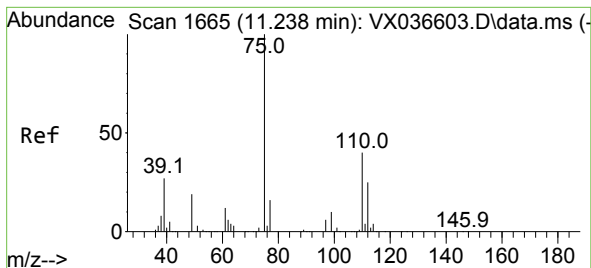
Ion Ratio Lower Upper

152 100

115 61.5 43.3 129.9

150 156.5 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 24.025 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

Instrument :

MSVOA_X

ClientSampleId :

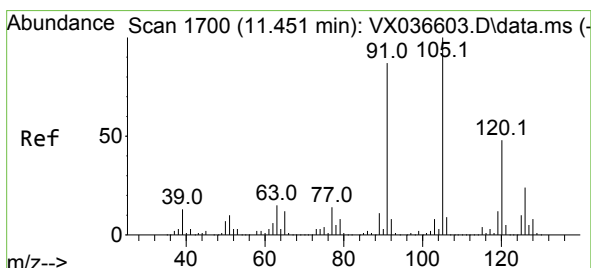
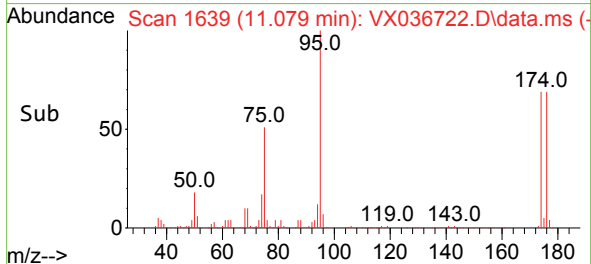
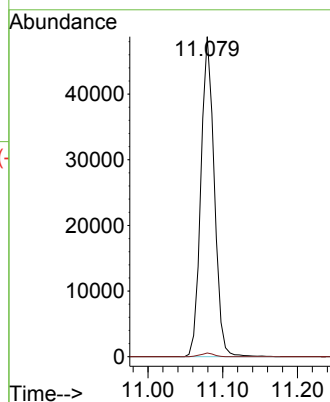
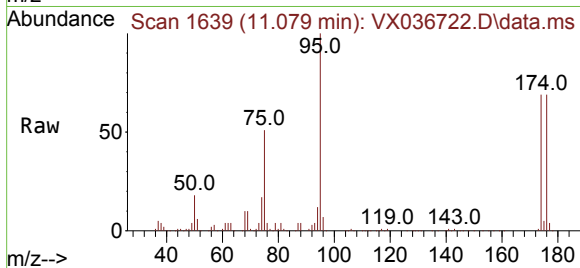
1715

Tgt Ion: 75 Resp: 60667

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.292 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX036722.D

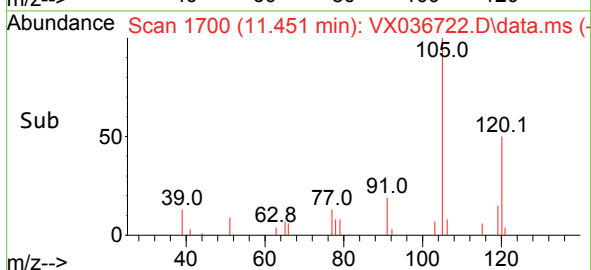
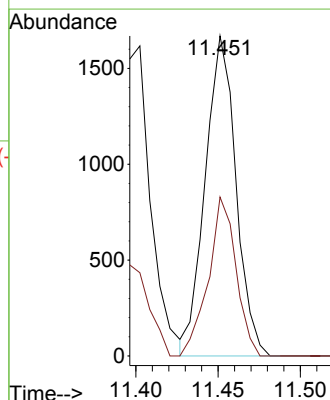
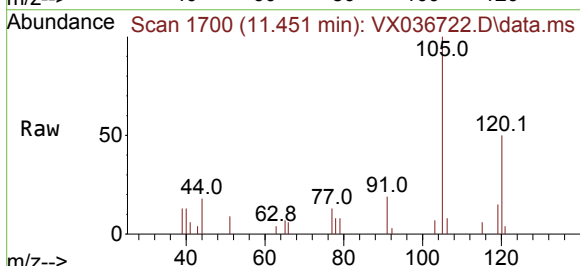
Acq: 31 Jul 2023 15:59

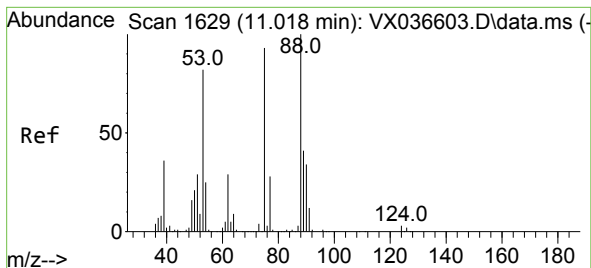
Tgt Ion:105 Resp: 2170

Ion Ratio Lower Upper

105 100

120 44.7 24.1 72.3

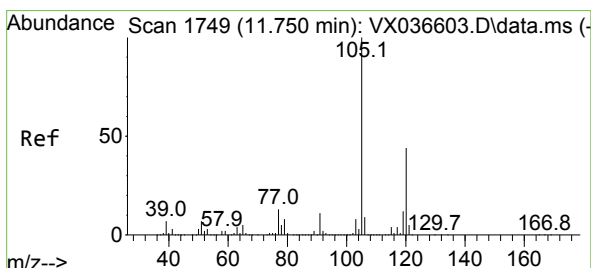
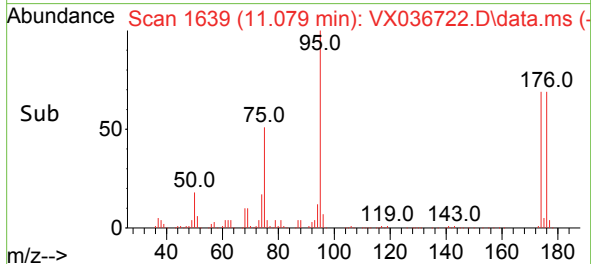
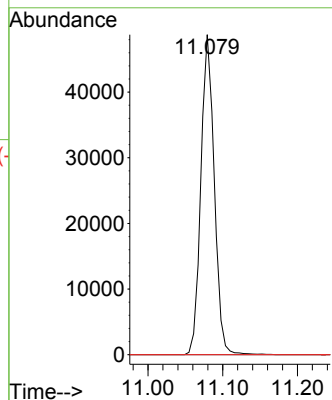
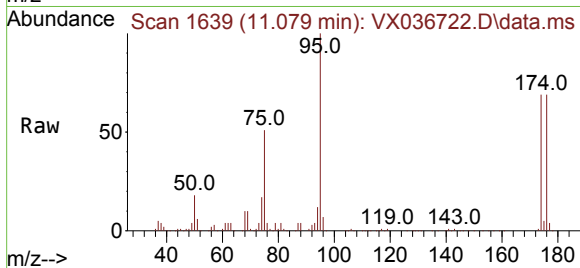




#81
trans-1,4-Dichloro-2-butene
Concen: 54.454 ug/l
RT: 11.079 min Scan# 1715
Delta R.T. 0.061 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

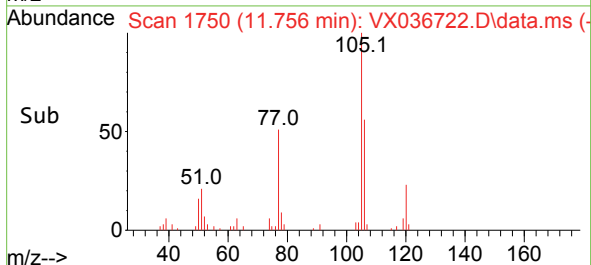
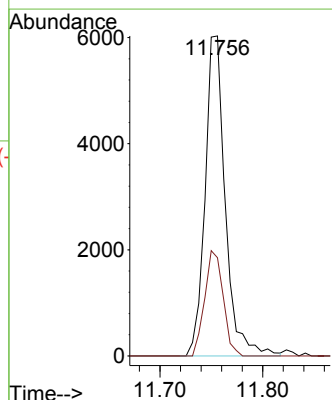
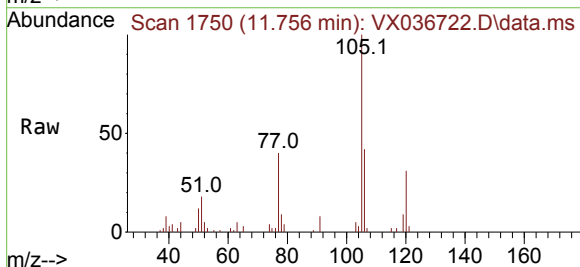
Instrument :
MSVOA_X
ClientSampleId :
1715

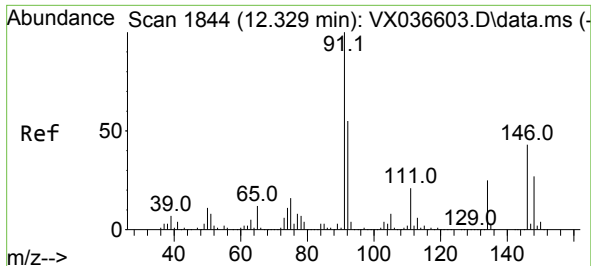
Tgt Ion: 75 Resp: 60667
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 1.111 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion: 105 Resp: 8258
Ion Ratio Lower Upper
105 100
120 30.0 21.2 63.6





#89

n-Butylbenzene

Concen: 0.352 ug/l

RT: 12.323 min Scan# 1843

Delta R.T. -0.006 min

Lab File: VX036722.D

Acq: 31 Jul 2023 15:59

Instrument :

MSVOA_X

ClientSampleId :

1715

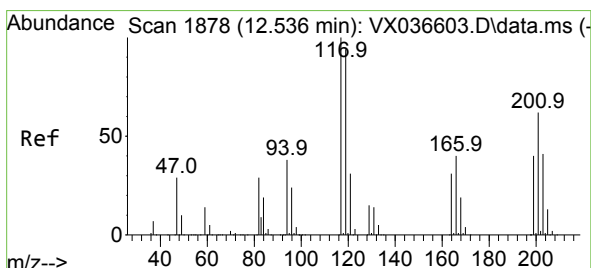
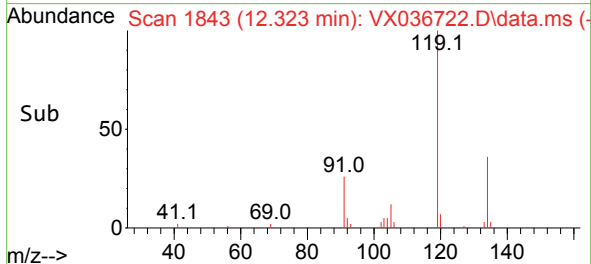
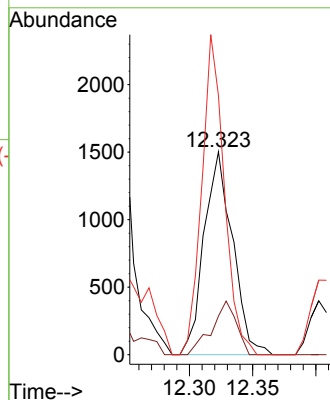
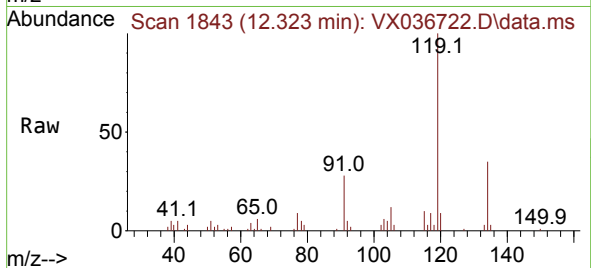
Tgt Ion: 91 Resp: 2360

Ion Ratio Lower Upper

91 100

92 22.7 27.4 82.0#

134 124.5 12.6 37.8#



#90

Hexachloroethane

Concen: 1.201 ug/l

RT: 12.609 min Scan# 1890

Delta R.T. 0.073 min

Lab File: VX036722.D

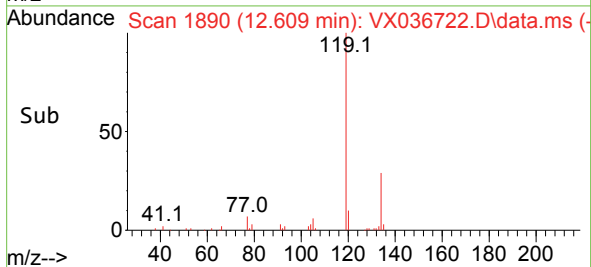
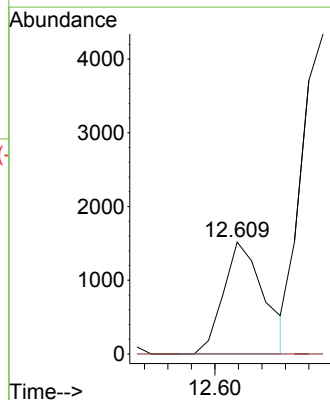
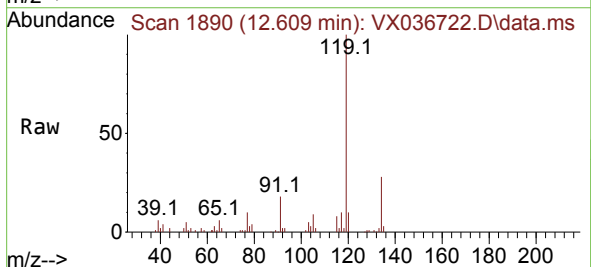
Acq: 31 Jul 2023 15:59

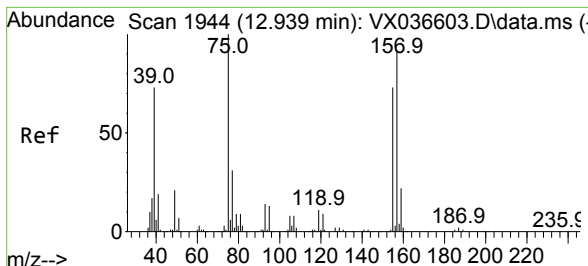
Tgt Ion: 117 Resp: 1825

Ion Ratio Lower Upper

117 100

201 0.0 32.9 98.6#

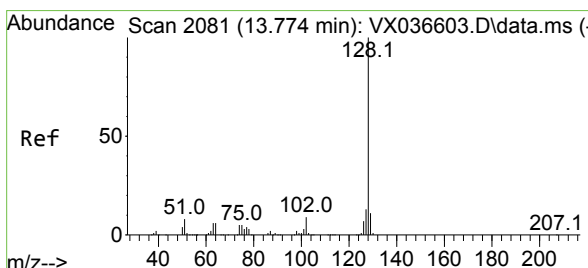
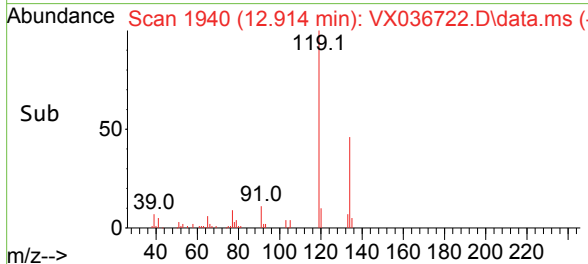
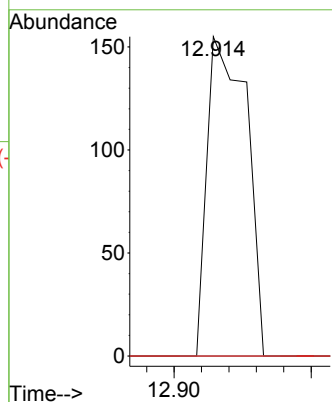
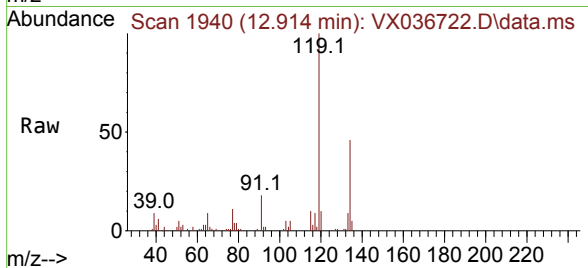




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.221 ug/l
RT: 12.914 min Scan# 1940
Delta R.T. -0.024 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Instrument :
MSVOA_X
ClientSampleId :
1715

Tgt Ion: 75 Resp: 154
Ion Ratio Lower Upper
75 100
155 0.0 36.1 108.5#
157 0.0 44.9 134.7#



#95
Naphthalene
Concen: 0.854 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX036722.D
Acq: 31 Jul 2023 15:59

Tgt Ion: 128 Resp: 6627
Ion Ratio Lower Upper
128 100
127 14.2 10.3 15.5
129 20.3 8.8 13.2#

