

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX093023\
 Data File : VX037996.D
 Acq On : 30 Sep 2023 12:12
 Operator : JC/MD
 Sample : 04651-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

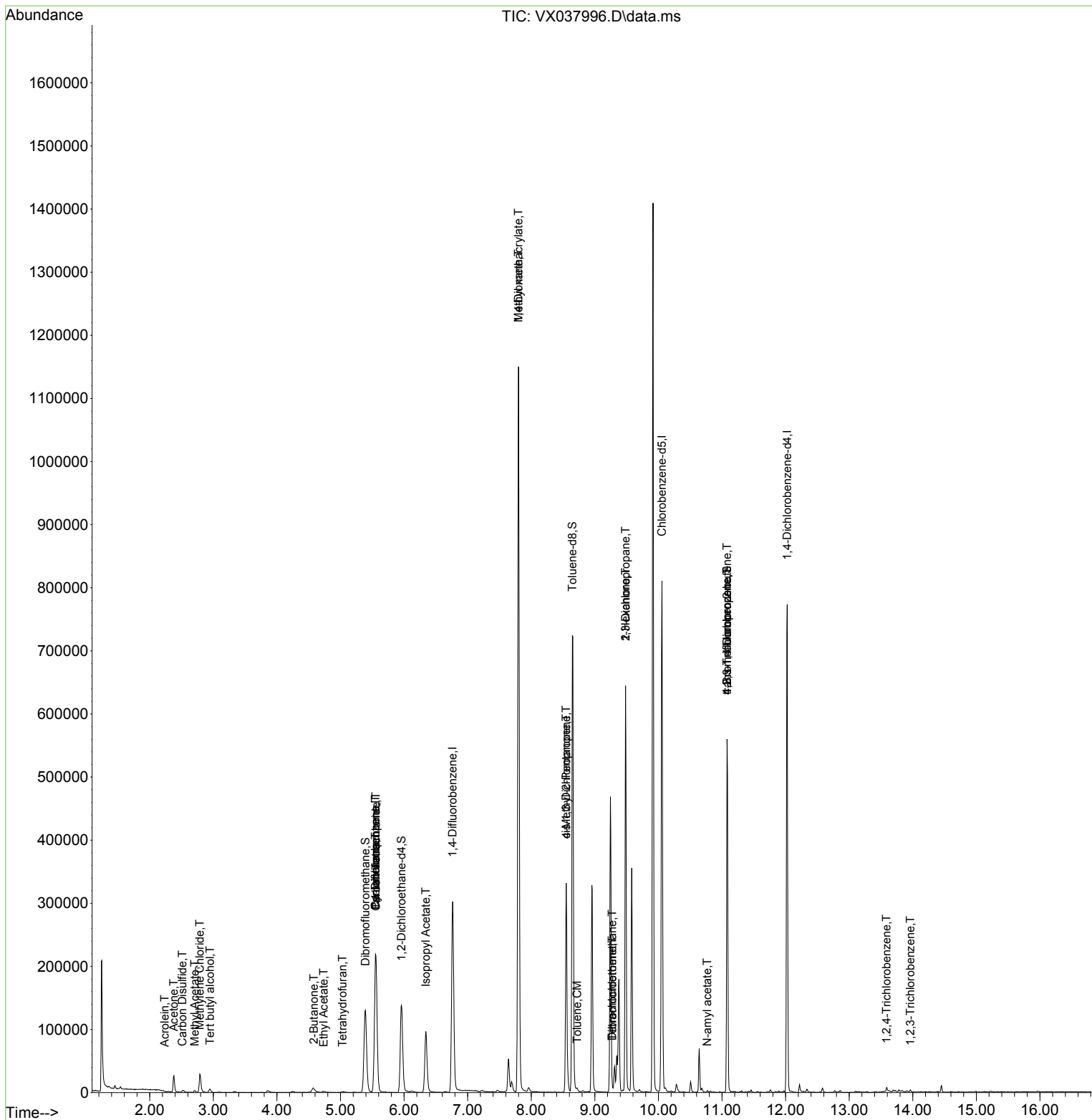
Quant Time: Oct 02 02:08:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091523W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 16 04:55:44 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	212480	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	311652	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	366748	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	158891	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	133920	47.971	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	95.940%		
35) Dibromofluoromethane	5.391	113	115140	55.216	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	110.440%		
50) Toluene-d8	8.647	98	451321	58.249	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	116.500%#		
62) 4-Bromofluorobenzene	11.079	95	145988	51.851	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.700%		
Target Compounds						
						Qvalue
11) Tert butyl alcohol	2.947	59	3318	5.537	ug/l	# 81
13) Acrolein	2.233	56	229	0.387	ug/l	# 19
16) Acetone	2.380	43	27250	20.291	ug/l	91
17) Carbon Disulfide	2.514	76	1700	0.327	ug/l	# 85
18) Methyl Acetate	2.709	43	3126	0.645	ug/l	# 86
20) Methylene Chloride	2.788	84	14802	5.939	ug/l	87
25) 2-Butanone	4.581	43	6989	3.688	ug/l	99
29) Tetrahydrofuran	5.032	42	377	0.320	ug/l	# 80
31) Cyclohexane	5.550	56	4229	1.180	ug/l	# 1
36) 1,1-Dichloropropene	5.550	75	16177	5.632	ug/l	# 51
37) Ethyl Acetate	4.733	43	3163	1.002	ug/l	# 82
38) Carbon Tetrachloride	5.556	117	21819	7.259	ug/l	# 15
43) Isopropyl Acetate	6.342	43	126219	24.996	ug/l	# 94
48) Methyl methacrylate	7.799	41	94618	39.196	ug/l	# 49
49) 1,4-Dioxane	7.799	88	138	2.181	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.549	43	108166	33.762	ug/l	# 53
52) Toluene	8.720	92	1368	0.240	ug/l	95
54) cis-1,3-Dichloropropene	8.549	75	53292	15.153	ug/l	# 57
57) 1,3-Dichloropropane	9.482	76	5689	1.465	ug/l	# 42
59) 2-Hexanone	9.482	43	68385	27.415	ug/l	# 55
60) Dibromochloromethane	9.275	129	817	0.342	ug/l	# 11
64) Tetrachloroethene	9.275	164	771	0.308	ug/l	95
74) N-amyl acetate	10.768	43	1542	0.327	ug/l	# 49
76) 1,2,3-Trichloropropane	11.079	75	76611	20.847	ug/l	# 38
81) trans-1,4-Dichloro-2-b...	11.079	75	76611	66.779	ug/l	# 5
93) 1,2,4-Trichlorobenzene	13.585	180	835	0.258	ug/l	94
96) 1,2,3-Trichlorobenzene	13.963	180	955	0.287	ug/l	94

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

Quant Time: Oct 02 02:08:45 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091523W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 16 04:55:44 2023
Response via : Initial Calibration

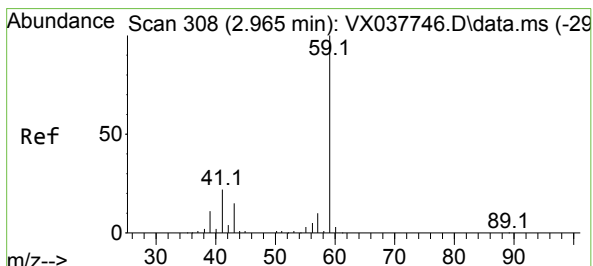
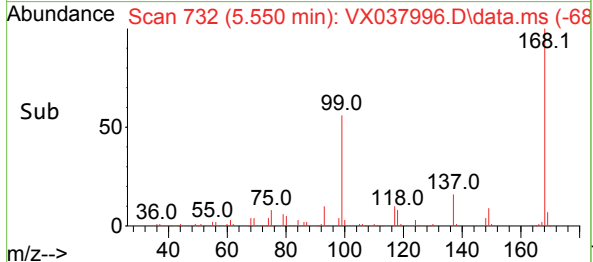
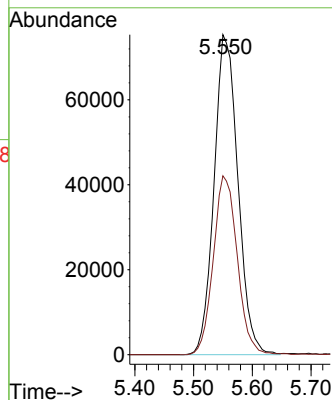
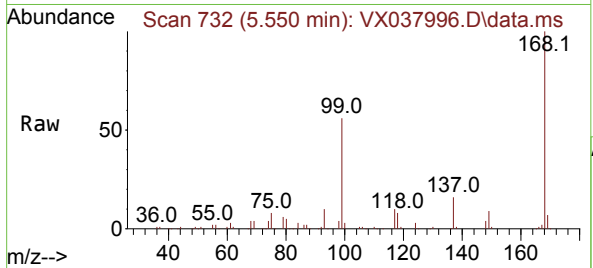




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

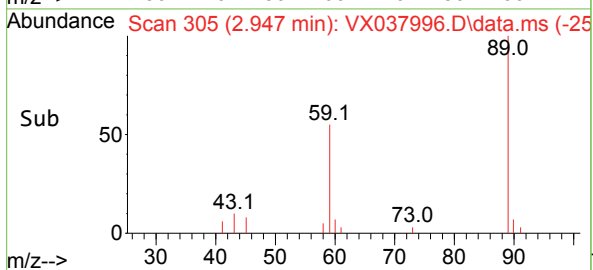
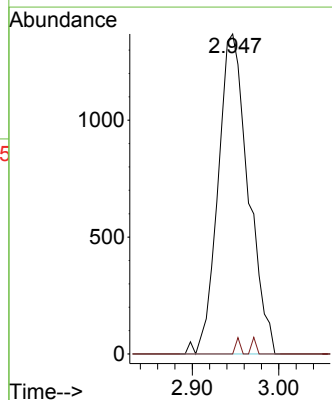
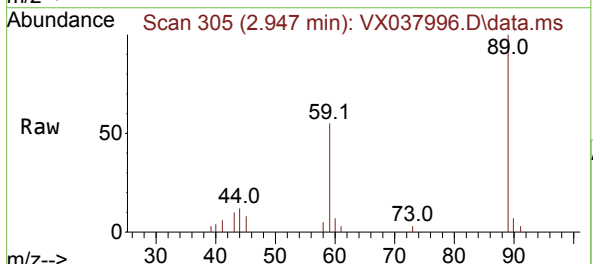
Instrument :
MSVOA_X
ClientSampleId :

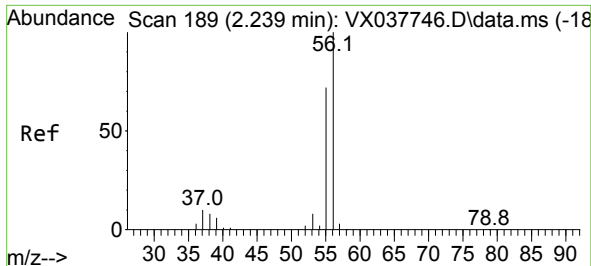
Tgt Ion:168 Resp: 212480
Ion Ratio Lower Upper
168 100
99 55.9 56.6 85.0#



#11
Tert butyl alcohol
Concen: 5.537 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.018 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

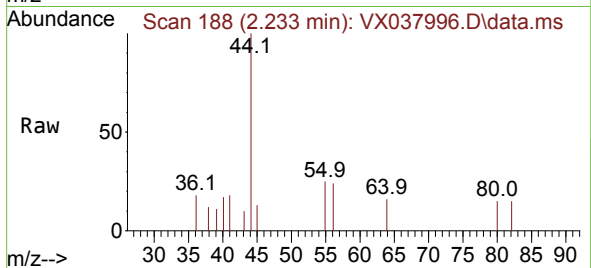
Tgt Ion: 59 Resp: 3318
Ion Ratio Lower Upper
59 100
57 0.8 6.0 9.0#



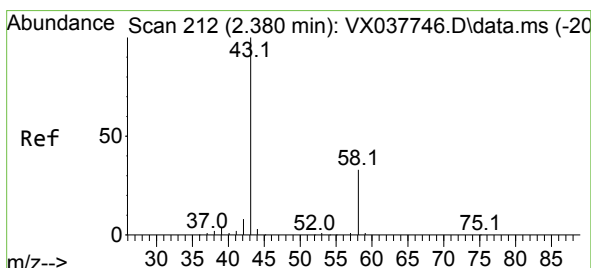
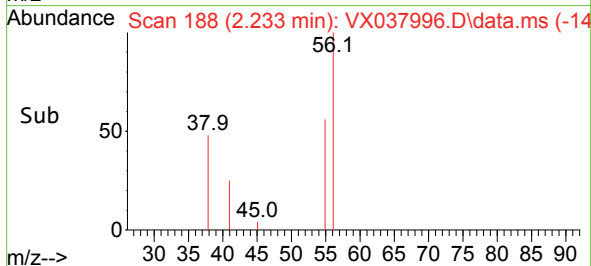
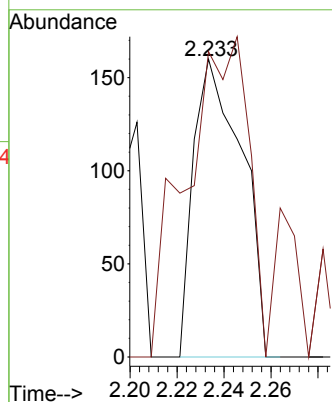


#13
Acrolein
Concen: 0.387 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Instrument :
MSVOA_X
ClientSampleId :

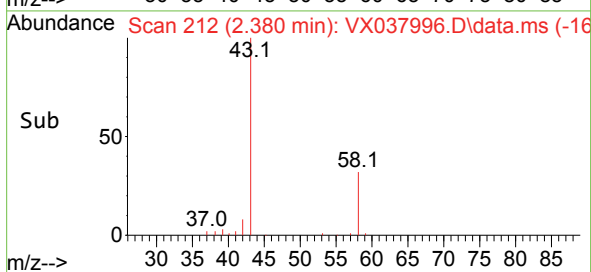
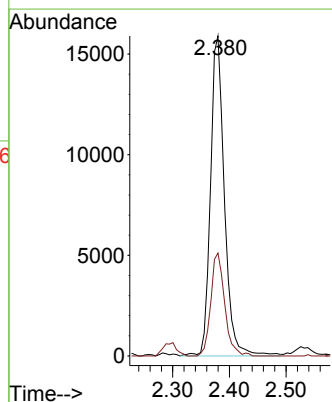
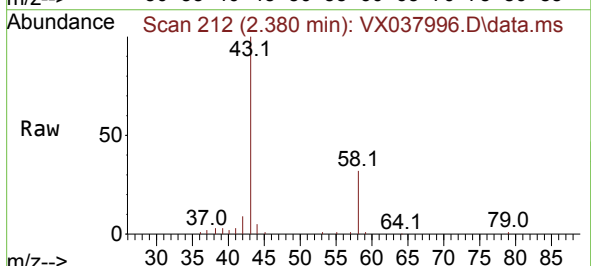


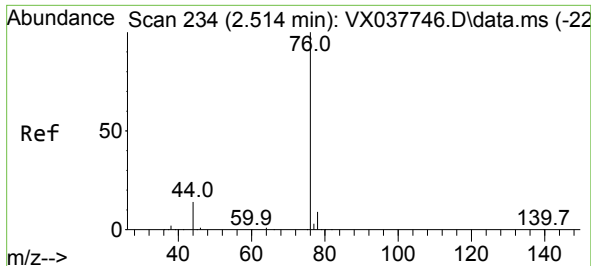
Tgt Ion: 56 Resp: 229
Ion Ratio Lower Upper
56 100
55 138.9 57.1 85.7#



#16
Acetone
Concen: 20.291 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

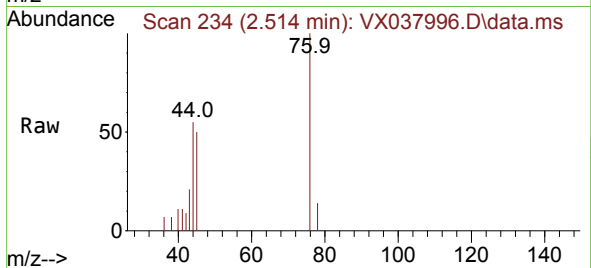
Tgt Ion: 43 Resp: 27250
Ion Ratio Lower Upper
43 100
58 32.1 21.9 32.9



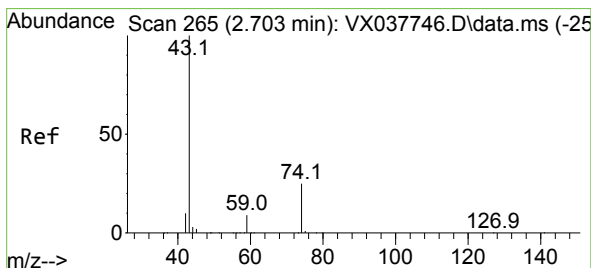
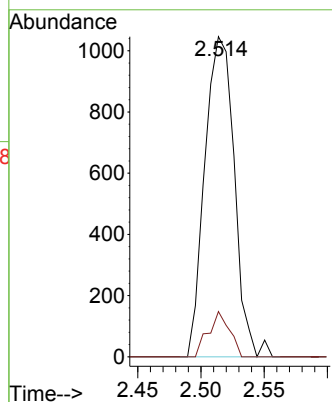
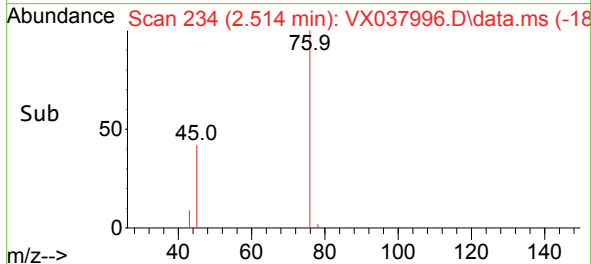


#17
Carbon Disulfide
Concen: 0.327 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

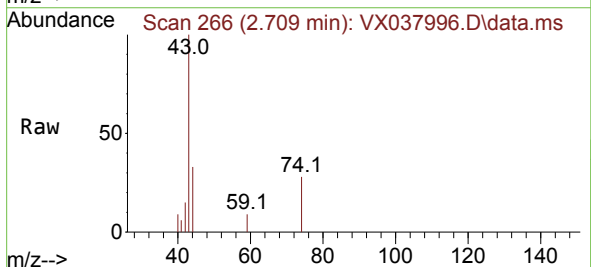
Instrument :
MSVOA_X
ClientSampleId :



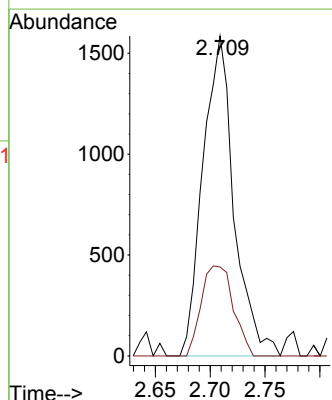
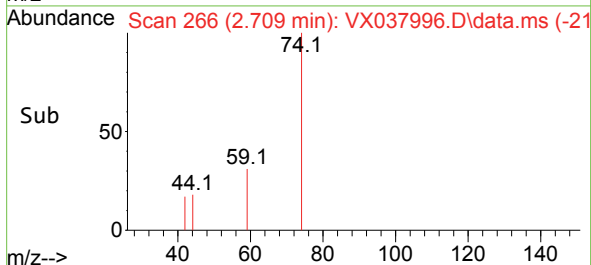
Tgt Ion: 76 Resp: 1700
Ion Ratio Lower Upper
76 100
78 14.1 7.0 10.6#

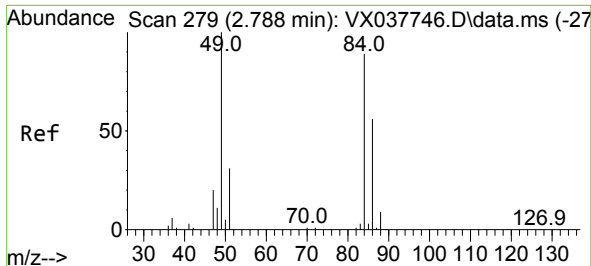


#18
Methyl Acetate
Concen: 0.645 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12



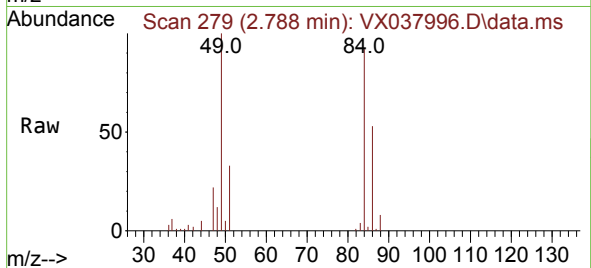
Tgt Ion: 43 Resp: 3126
Ion Ratio Lower Upper
43 100
74 29.0 17.8 26.8#



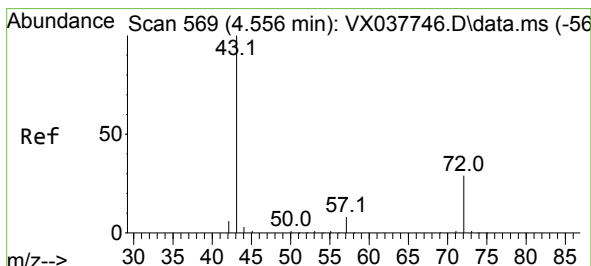
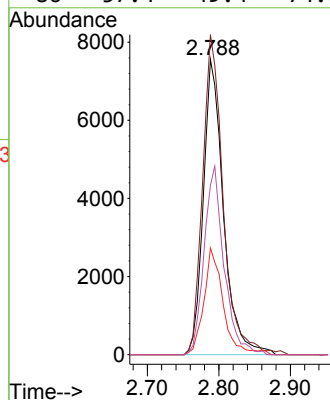
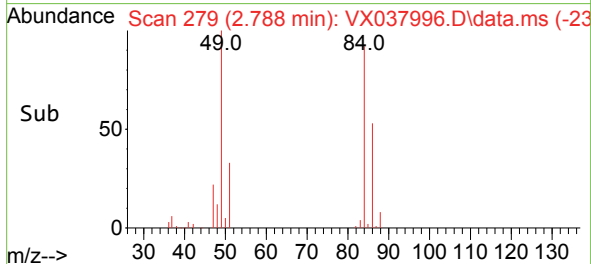


#20
Methylene Chloride
Concen: 5.939 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Instrument :
MSVOA_X
ClientSampleId :

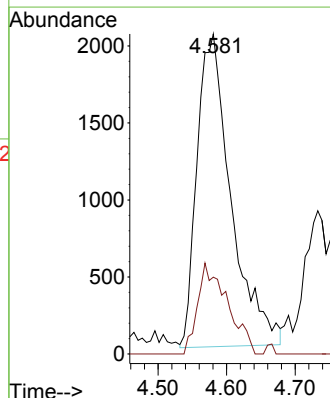
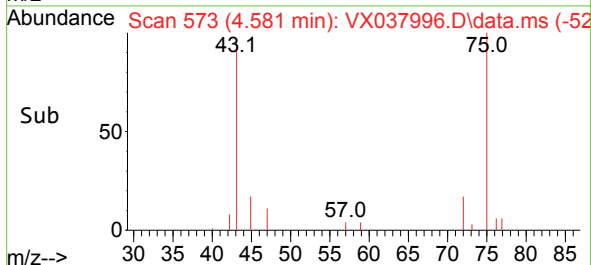
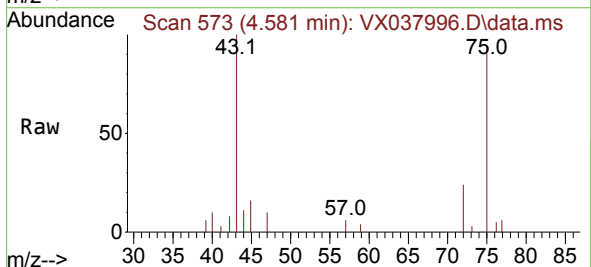


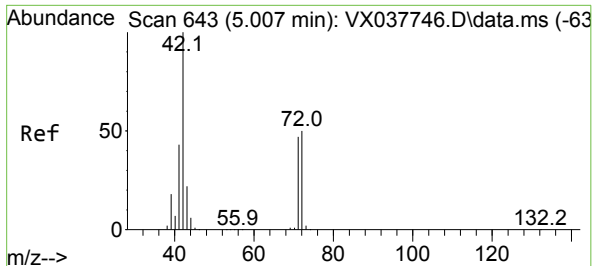
Tgt Ion:	84	Resp:	14802
Ion	Ratio	Lower	Upper
84	100		
49	108.4	103.6	155.4
51	36.2	33.8	50.6
86	57.4	49.4	74.0



#25
2-Butanone
Concen: 3.688 ug/l
RT: 4.581 min Scan# 573
Delta R.T. 0.012 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Tgt Ion:	43	Resp:	6989
Ion	Ratio	Lower	Upper
43	100		
72	24.7	19.4	29.2





#29

Tetrahydrofuran

Concen: 0.320 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.018 min

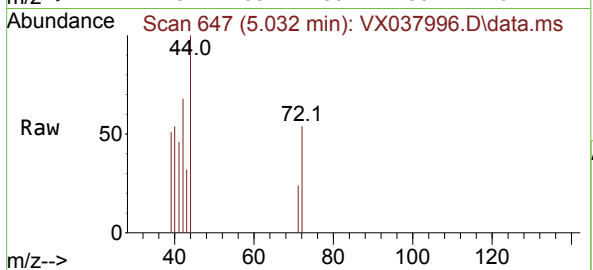
Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :



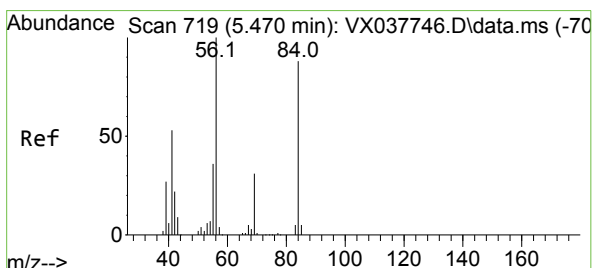
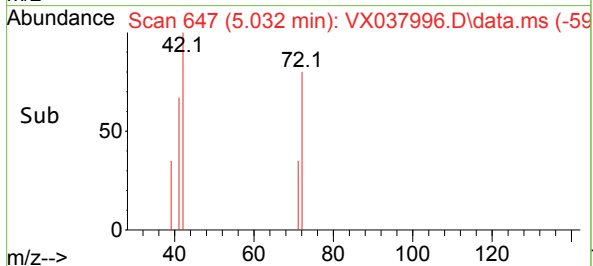
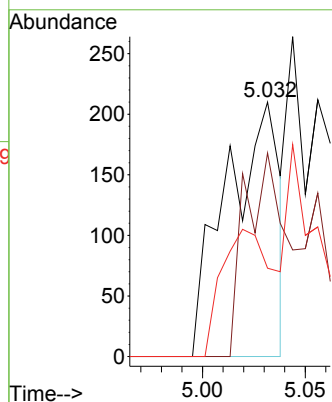
Tgt Ion: 42 Resp: 377

Ion Ratio Lower Upper

42 100

72 59.9 34.2 51.4#

71 48.5 32.2 48.2#



#31

Cyclohexane

Concen: 1.180 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

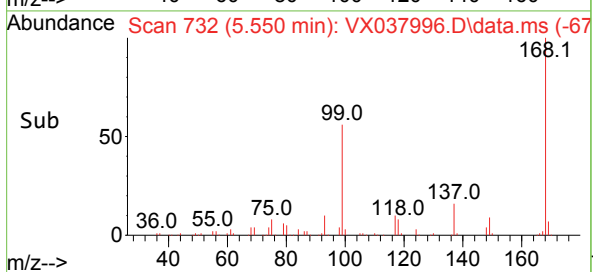
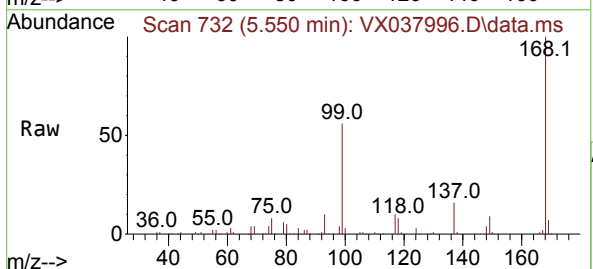
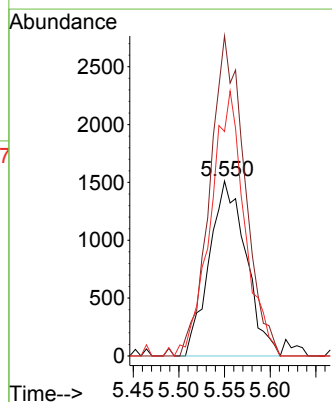
Tgt Ion: 56 Resp: 4229

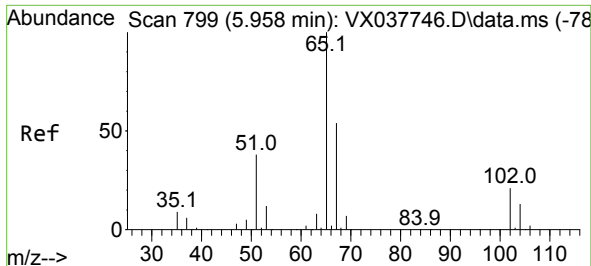
Ion Ratio Lower Upper

56 100

69 182.9 23.4 35.2#

84 128.4 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 47.971 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

Instrument :

MSVOA_X

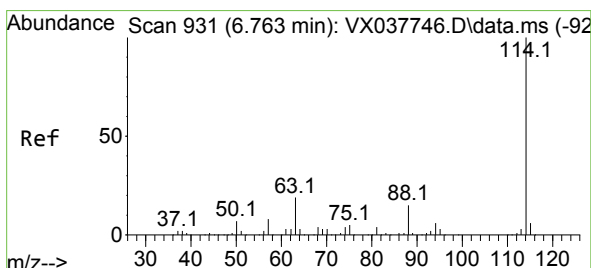
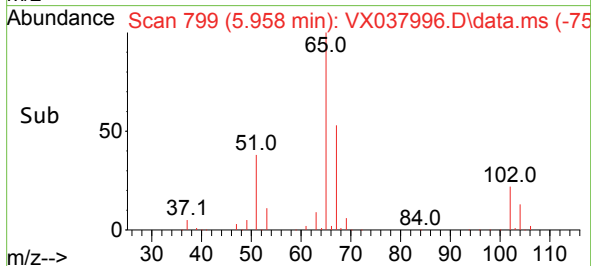
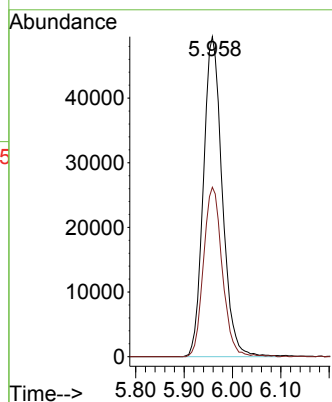
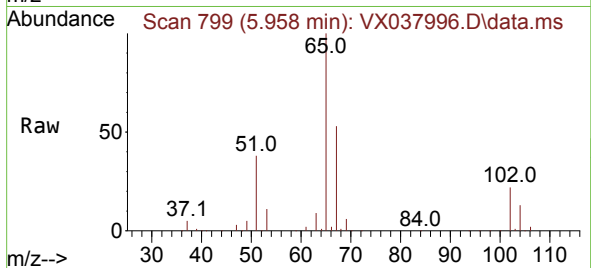
ClientSampleId :

Tgt Ion: 65 Resp: 133920

Ion Ratio Lower Upper

65 100

67 52.8 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

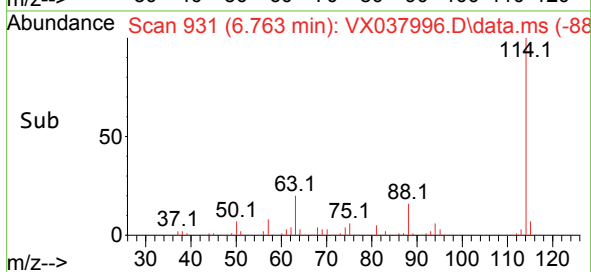
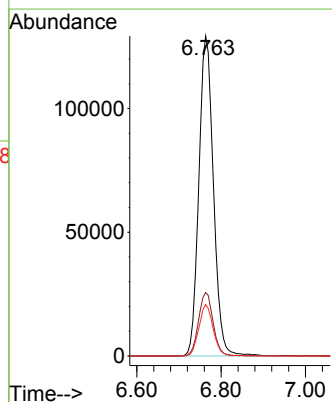
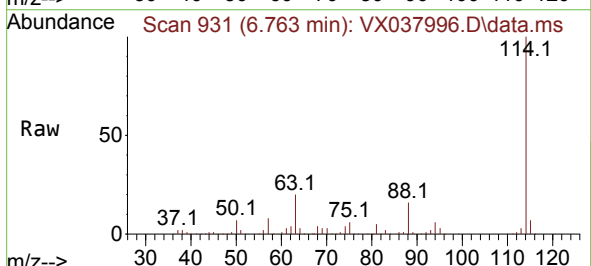
Tgt Ion: 114 Resp: 311652

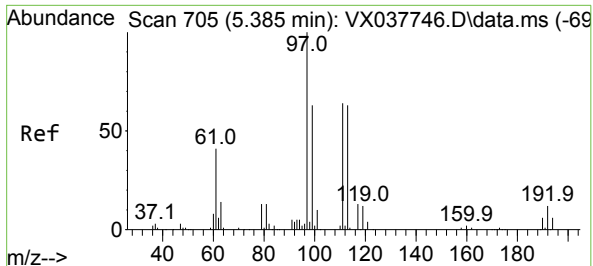
Ion Ratio Lower Upper

114 100

63 19.8 0.0 45.0

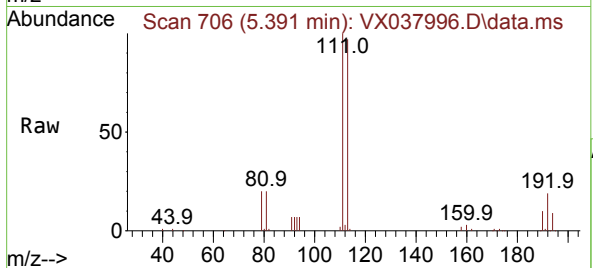
88 16.1 0.0 36.6



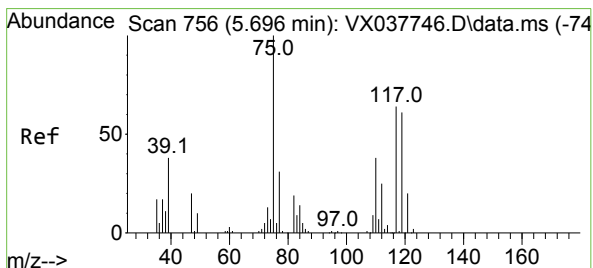
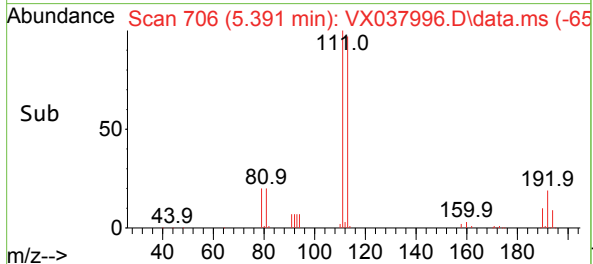
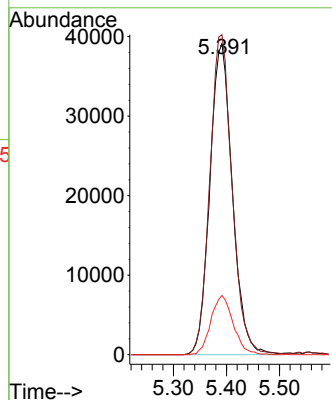


#35
Dibromofluoromethane
Concen: 55.216 ug/l
RT: 5.391 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Instrument :
MSVOA_X
ClientSampleId :

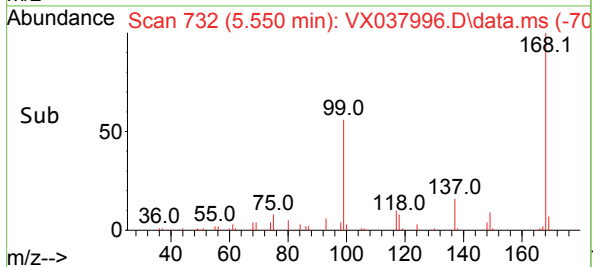
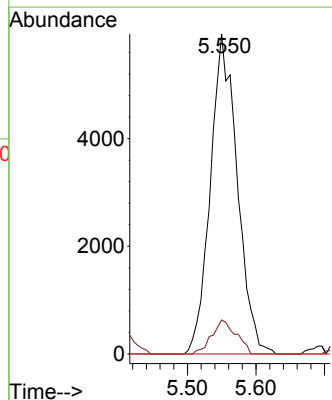
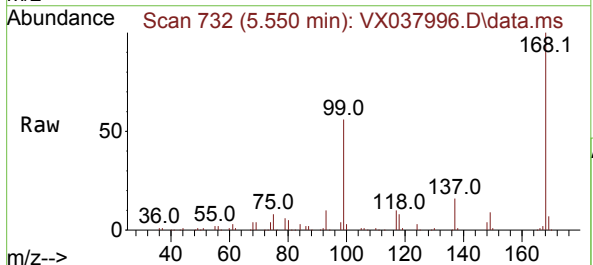


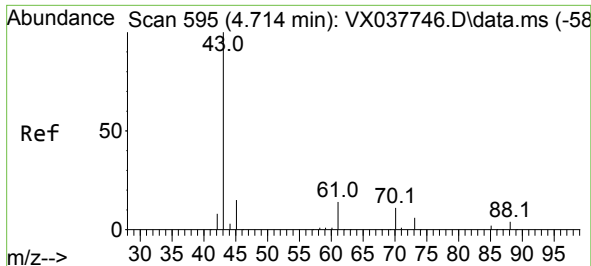
Tgt Ion:113 Resp: 115140
Ion Ratio Lower Upper
113 100
111 102.0 82.9 124.3
192 18.9 13.3 19.9



#36
1,1-Dichloropropene
Concen: 5.632 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.146 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Tgt Ion: 75 Resp: 16177
Ion Ratio Lower Upper
75 100
110 9.6 17.0 50.9#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.002 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.000 min

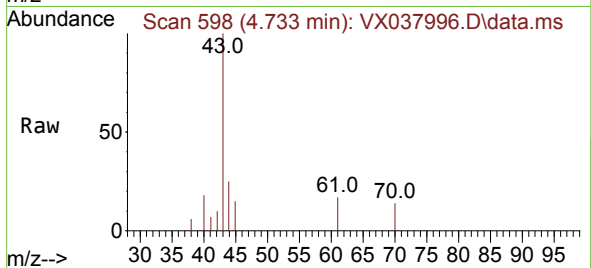
Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :



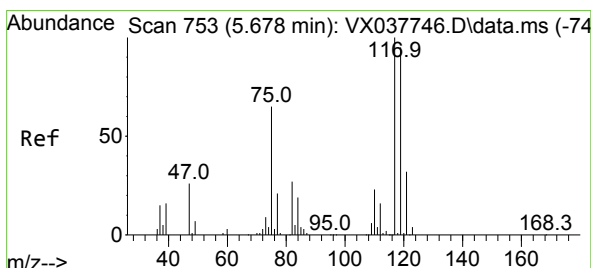
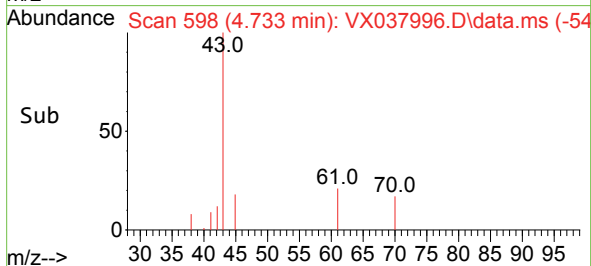
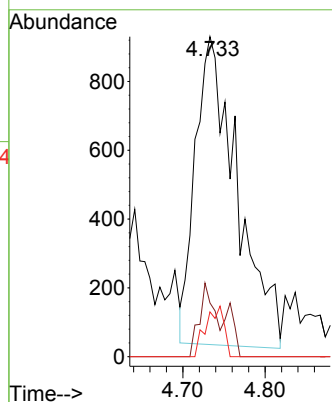
Tgt Ion: 43 Resp: 3163

Ion Ratio Lower Upper

43 100

61 8.9 10.6 16.0#

70 0.0 8.3 12.5#



#38

Carbon Tetrachloride

Concen: 7.259 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.122 min

Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

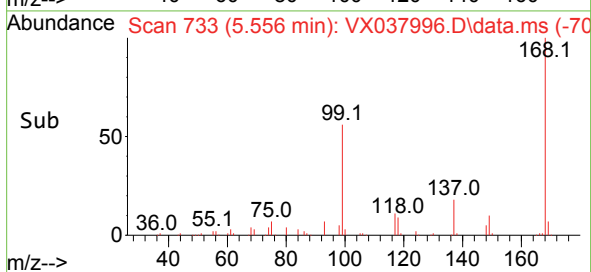
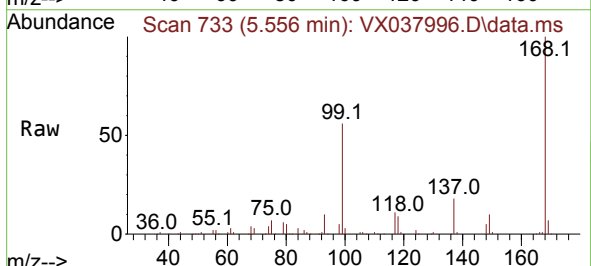
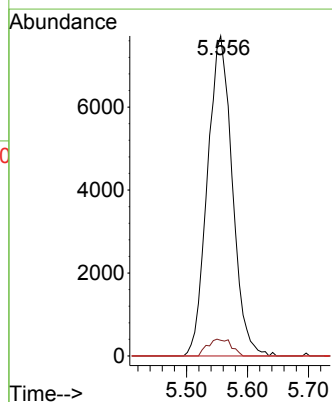
Tgt Ion: 117 Resp: 21819

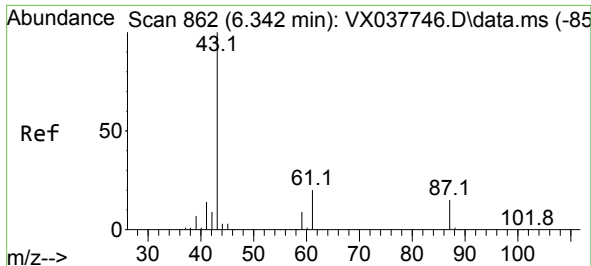
Ion Ratio Lower Upper

117 100

119 4.9 78.2 117.2#

121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 24.996 ug/l

RT: 6.342 min Scan# 8

Delta R.T. 0.000 min

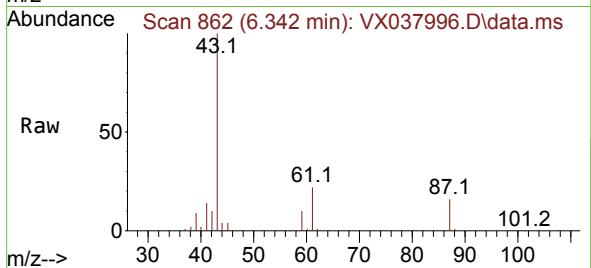
Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :



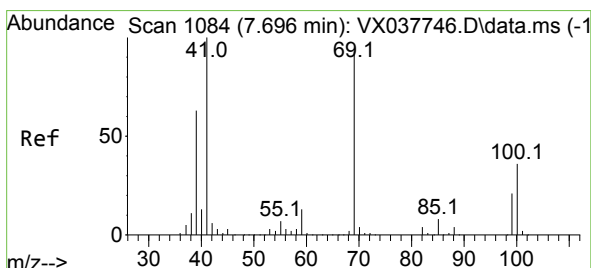
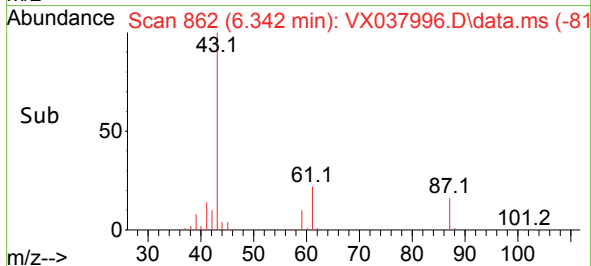
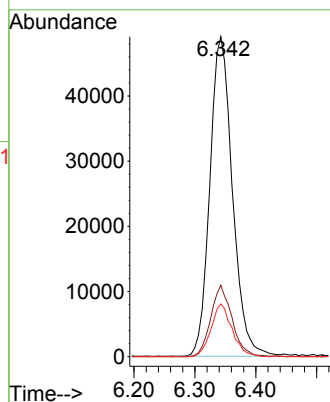
Tgt Ion: 43 Resp: 126219

Ion Ratio Lower Upper

43 100

61 21.1 15.2 22.8

87 15.3 9.8 14.6#



#48

Methyl methacrylate

Concen: 39.196 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.098 min

Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

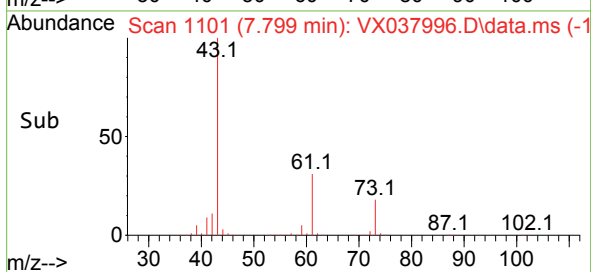
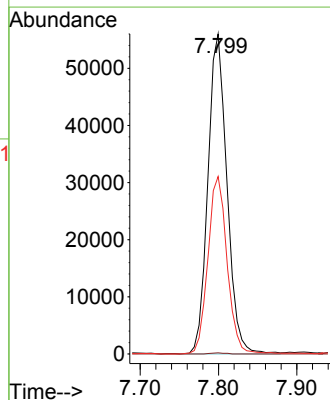
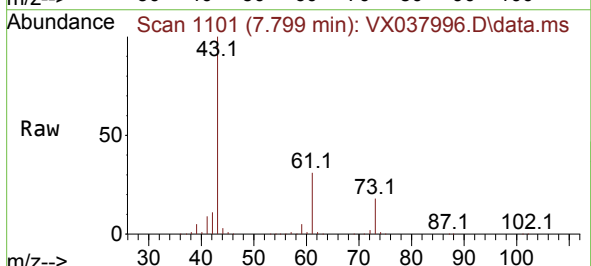
Tgt Ion: 41 Resp: 94618

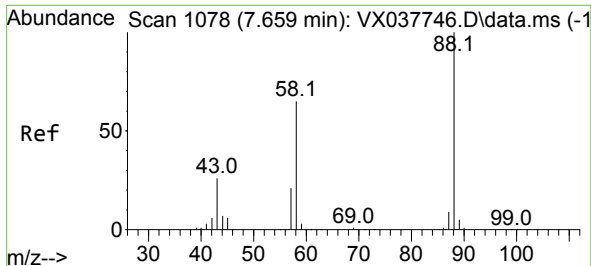
Ion Ratio Lower Upper

41 100

69 0.2 59.2 88.8#

39 55.9 47.7 71.5





#49

1,4-Dioxane

Concen: 2.181 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.128 min

Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

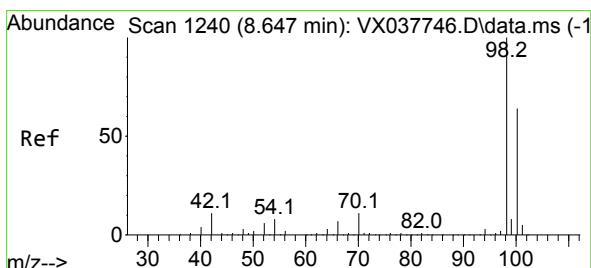
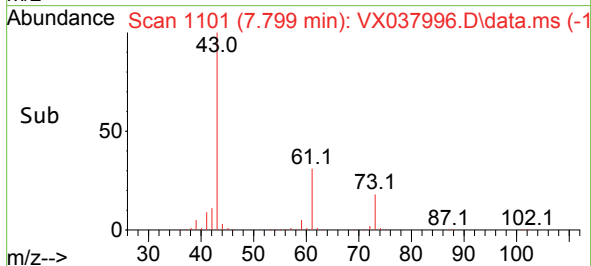
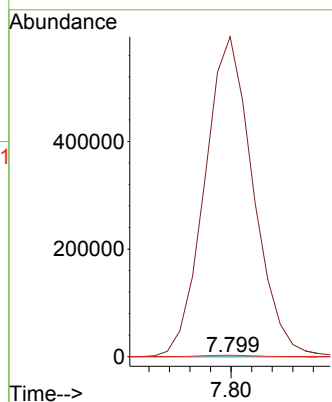
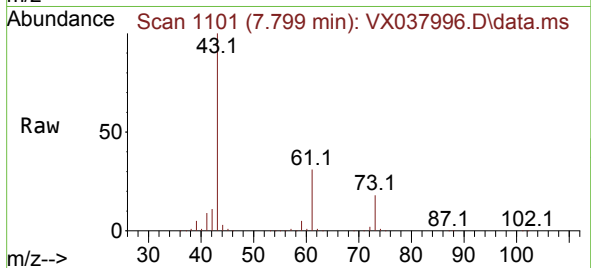
Tgt Ion: 88 Resp: 138

Ion Ratio Lower Upper

88 100

43 712300.0 0.0 0.0#

58 3358.7 60.1 90.1#



#50

Toluene-d8

Concen: 58.249 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX037996.D

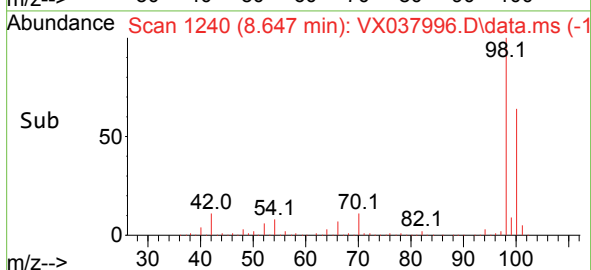
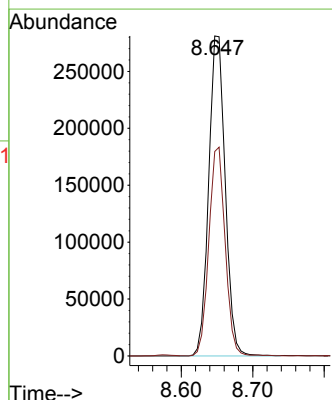
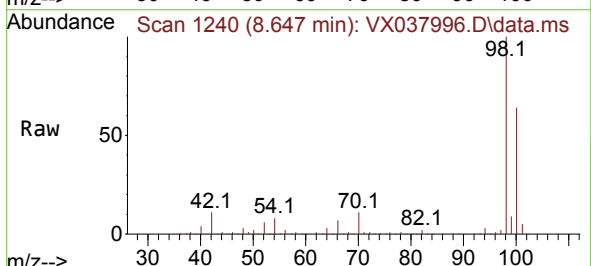
Acq: 30 Sep 2023 12:12

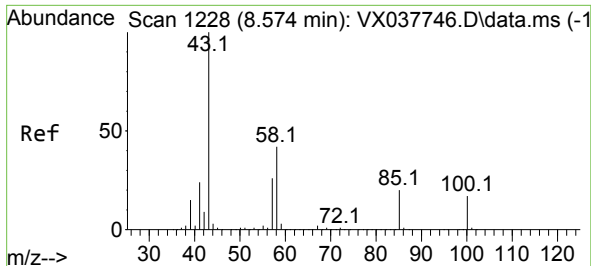
Tgt Ion: 98 Resp: 451321

Ion Ratio Lower Upper

98 100

100 64.4 53.1 79.7

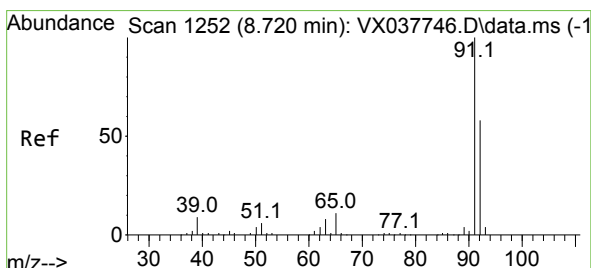
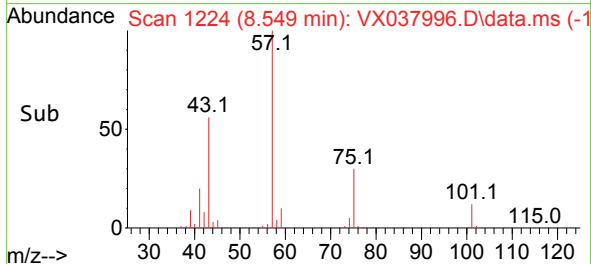
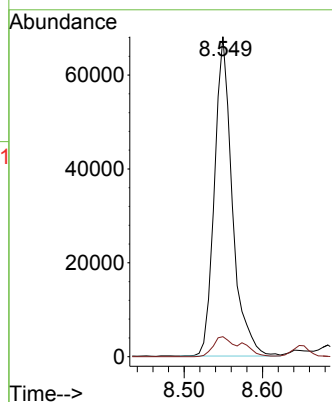
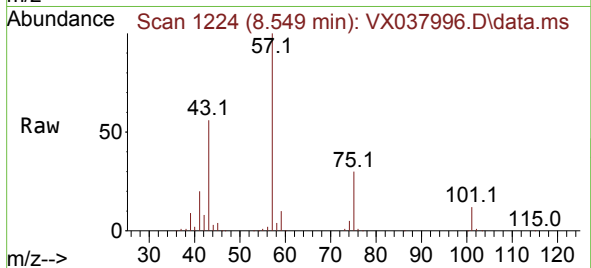




#51
4-Methyl-2-Pentanone
Concen: 33.762 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

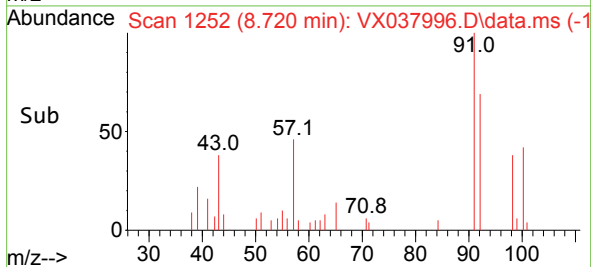
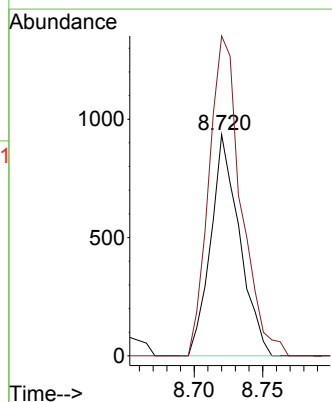
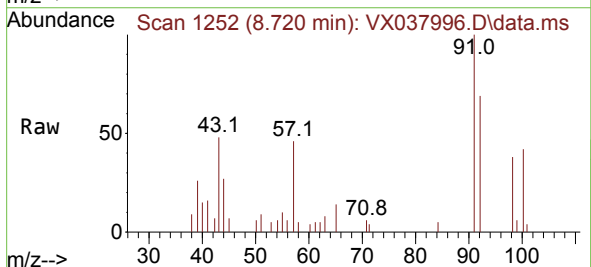
Instrument :
MSVOA_X
ClientSampleId :

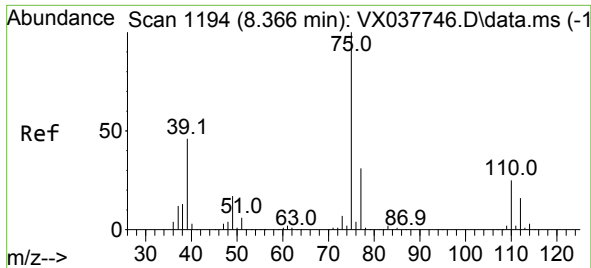
Tgt Ion: 43 Resp: 108166
Ion Ratio Lower Upper
43 100
58 9.8 30.4 45.6#



#52
Toluene
Concen: 0.240 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Tgt Ion: 92 Resp: 1368
Ion Ratio Lower Upper
92 100
91 161.3 134.2 201.2

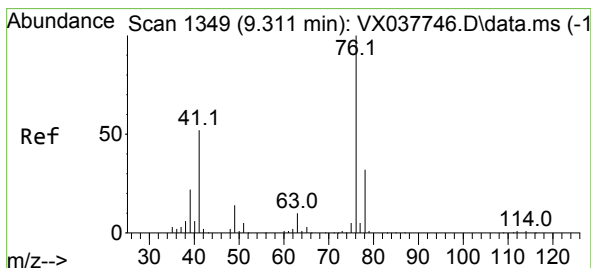
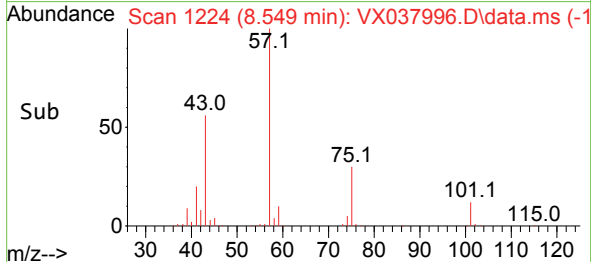
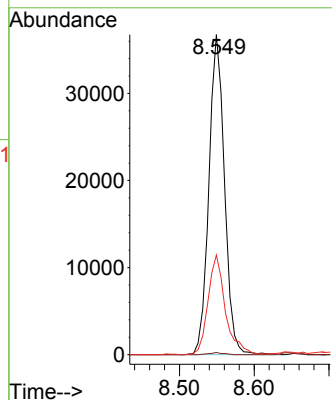
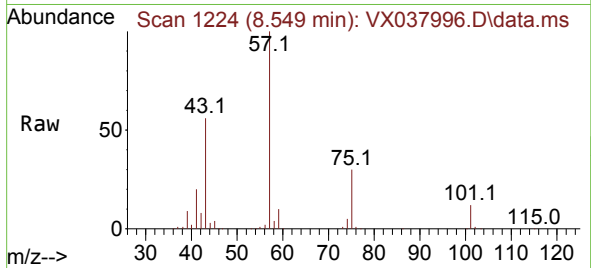




#54
cis-1,3-Dichloropropene
Concen: 15.153 ug/l
RT: 8.549 min Scan# 1194
Delta R.T. 0.177 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

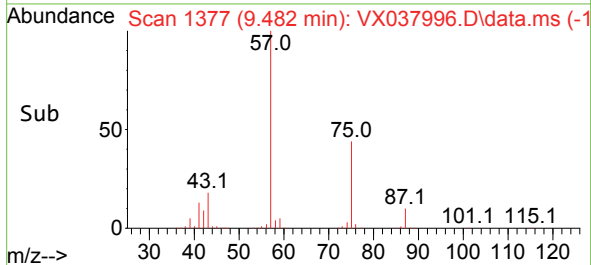
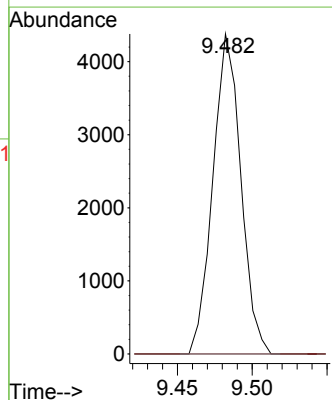
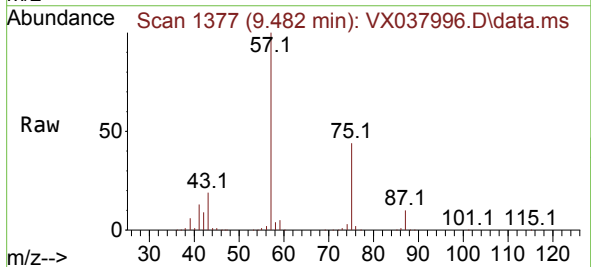
Instrument :
MSVOA_X
ClientSampleId :

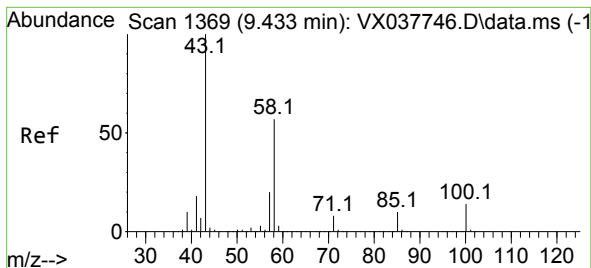
Tgt Ion: 75 Resp: 53292
Ion Ratio Lower Upper
75 100
77 0.7 25.3 37.9#
39 31.2 46.7 70.1#



#57
1,3-Dichloropropane
Concen: 1.465 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Tgt Ion: 76 Resp: 5689
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 27.415 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

Instrument :

MSVOA_X

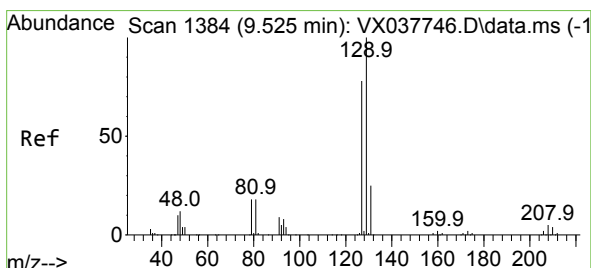
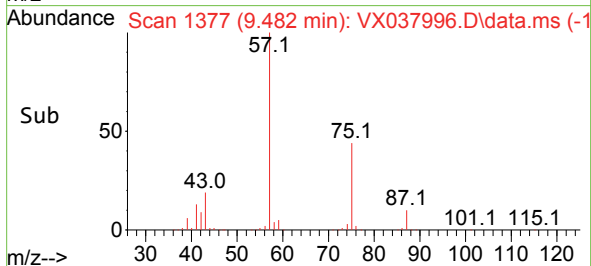
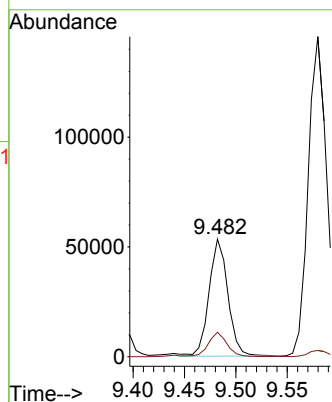
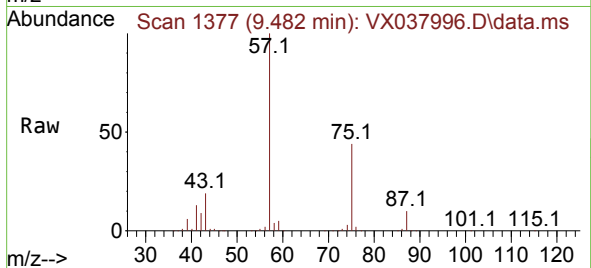
ClientSampleId :

Tgt Ion: 43 Resp: 68385

Ion Ratio Lower Upper

43 100

58 20.8 26.2 78.5#



#60

Dibromochloromethane

Concen: 0.342 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.244 min

Lab File: VX037996.D

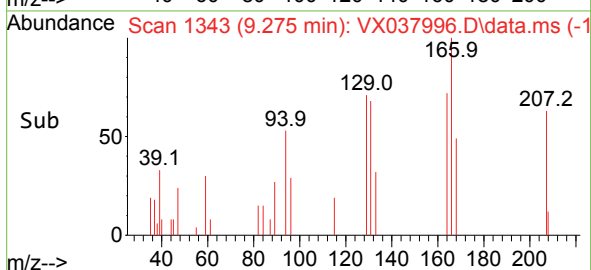
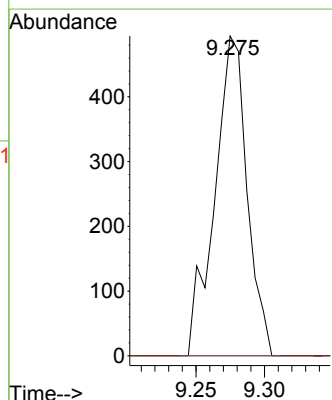
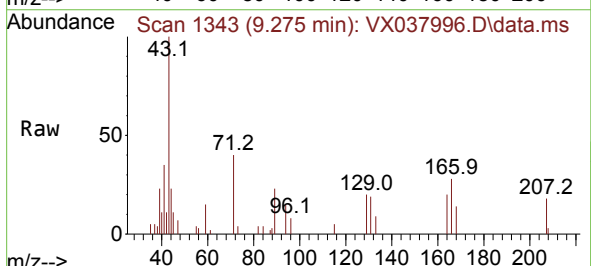
Acq: 30 Sep 2023 12:12

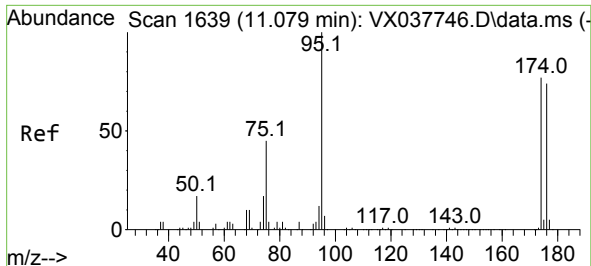
Tgt Ion: 129 Resp: 817

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#

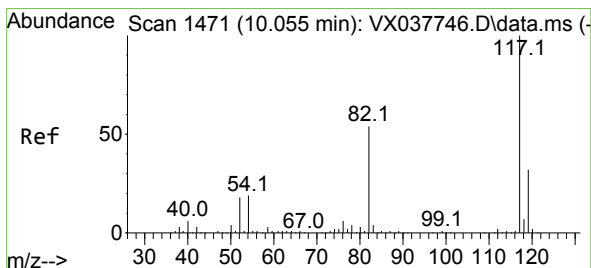
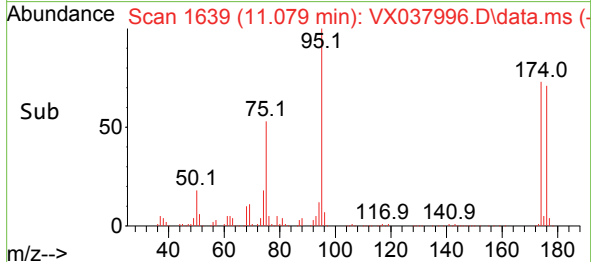
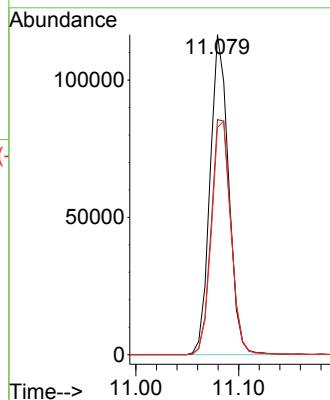
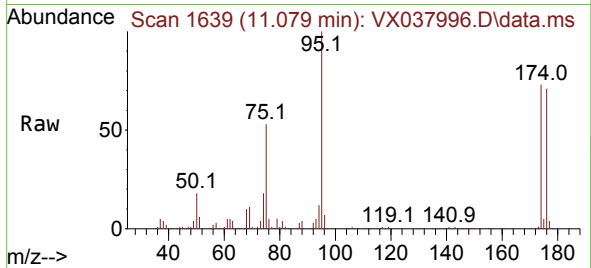




#62
4-Bromofluorobenzene
Concen: 51.851 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

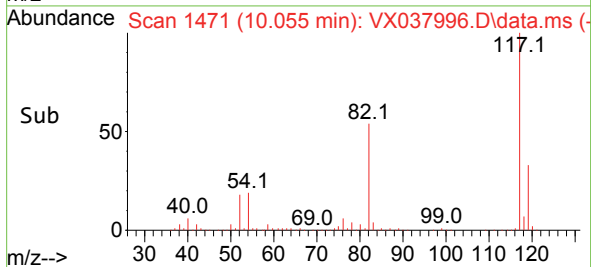
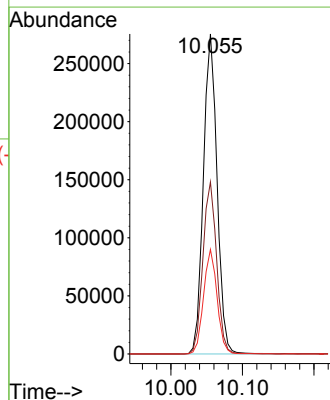
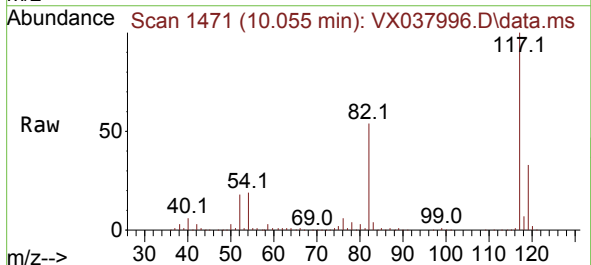
Instrument :
MSVOA_X
ClientSampleId :

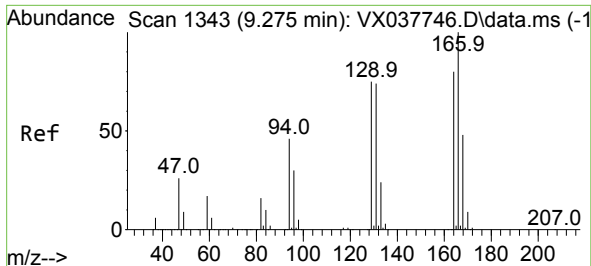
Tgt Ion: 95 Resp: 145988
Ion Ratio Lower Upper
95 100
174 78.5 0.0 135.6
176 76.2 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

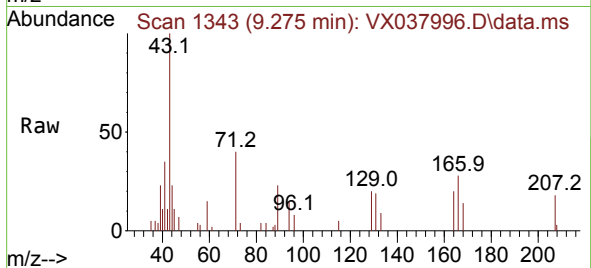
Tgt Ion: 117 Resp: 366748
Ion Ratio Lower Upper
117 100
82 53.8 46.2 69.4
119 32.6 25.5 38.3



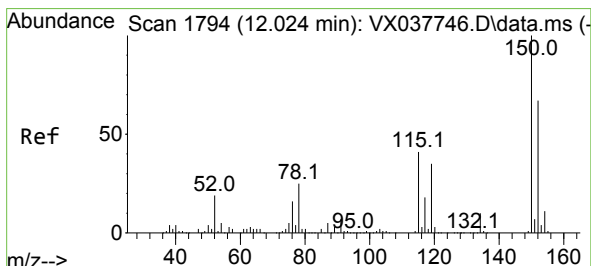
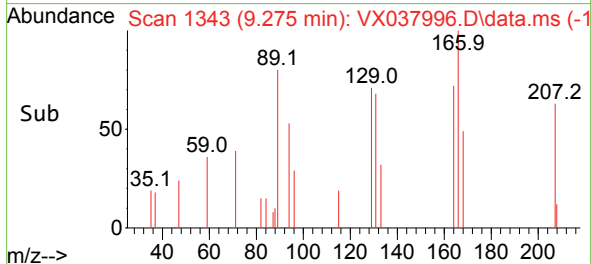
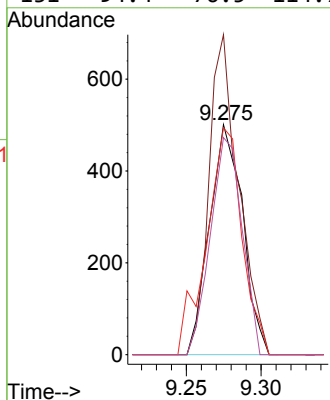


#64
Tetrachloroethene
Concen: 0.308 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Instrument :
MSVOA_X
ClientSampleId :

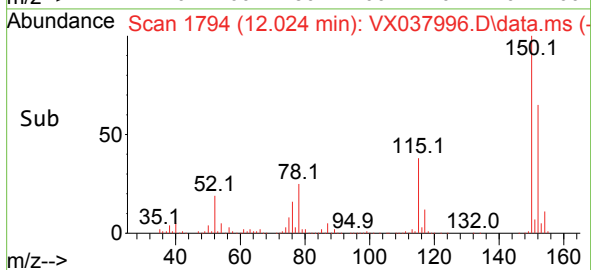
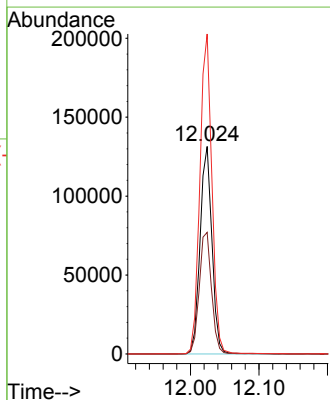
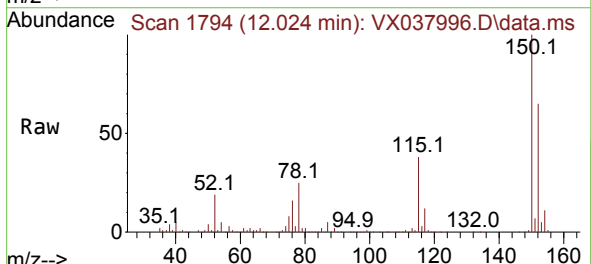


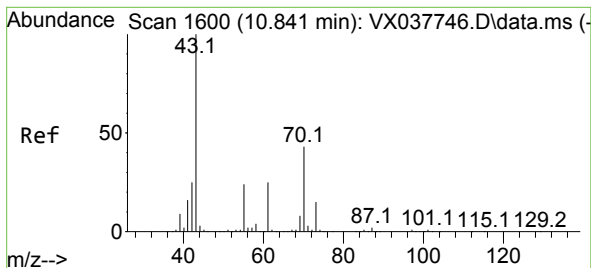
Tgt Ion:164 Resp: 771
Ion Ratio Lower Upper
164 100
166 139.1 102.7 154.1
129 98.6 80.4 120.6
131 94.4 76.5 114.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

Tgt Ion:152 Resp: 158891
Ion Ratio Lower Upper
152 100
115 60.9 43.3 129.9
150 156.4 0.0 345.0





#74

N-amyl acetate

Concen: 0.327 ug/l

RT: 10.768 min Scan# 1

Delta R.T. -0.079 min

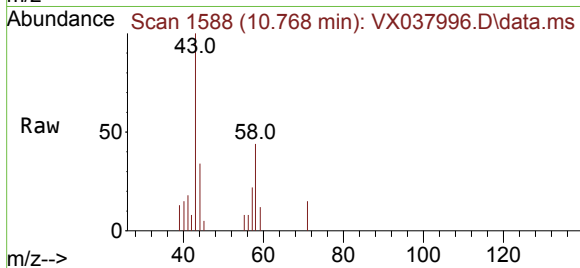
Lab File: VX037996.D

Acq: 30 Sep 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 43 Resp: 1542

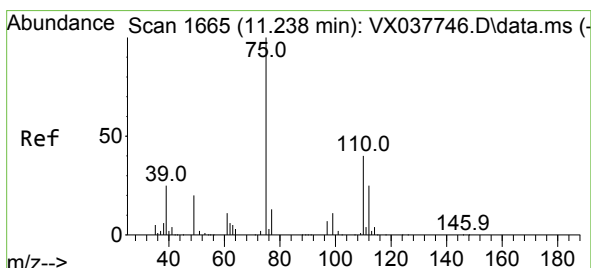
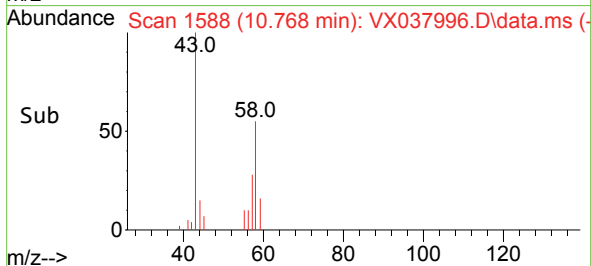
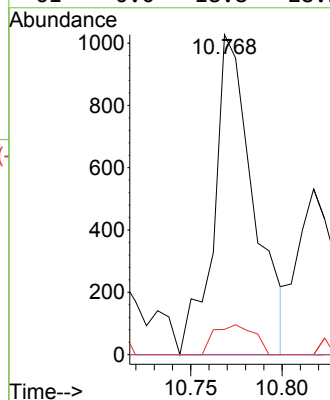
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 9.5 19.3 28.9#

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 20.847 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX037996.D

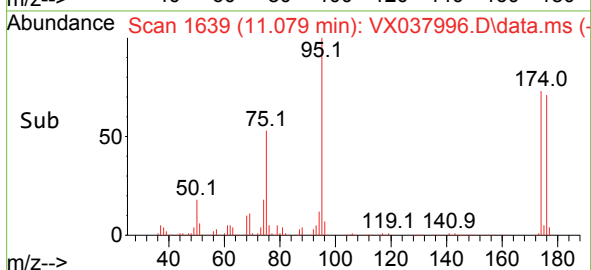
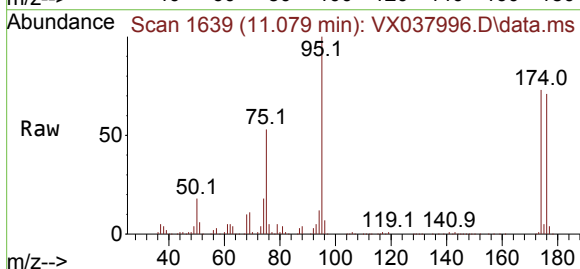
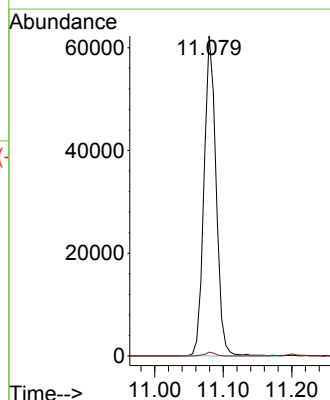
Acq: 30 Sep 2023 12:12

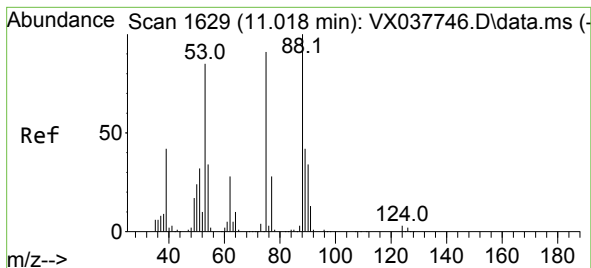
Tgt Ion: 75 Resp: 76611

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#

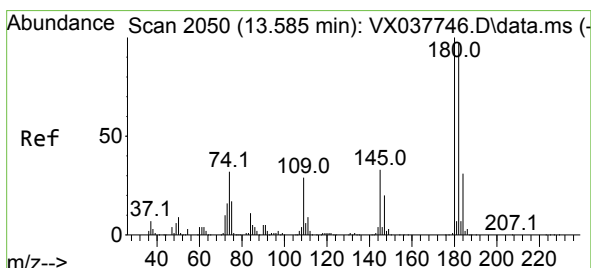
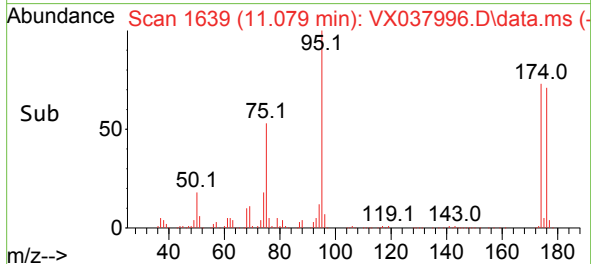
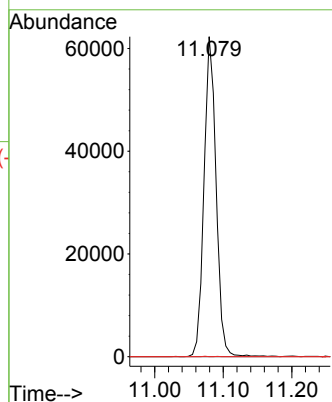
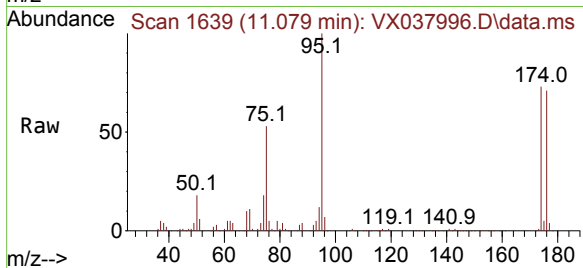




#81
trans-1,4-Dichloro-2-butene
Concen: 66.779 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

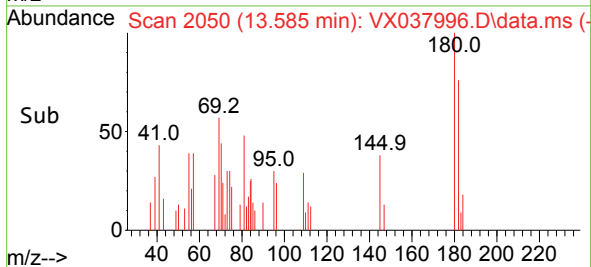
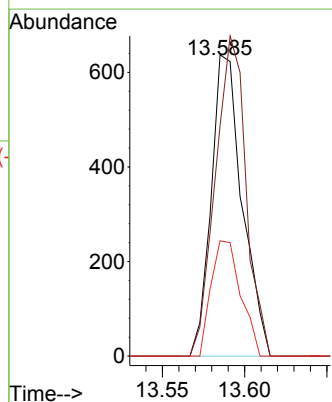
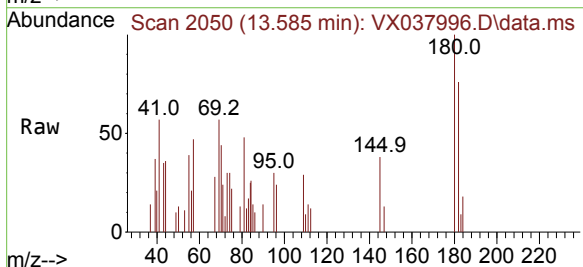
Instrument :
MSVOA_X
ClientSampleId :

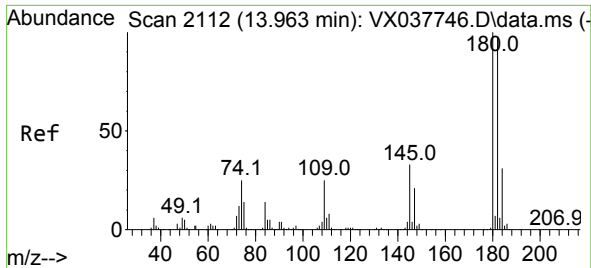
Tgt Ion: 75 Resp: 76611
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#93
1,2,4-Trichlorobenzene
Concen: 0.258 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.006 min
Lab File: VX037996.D
Acq: 30 Sep 2023 12:12

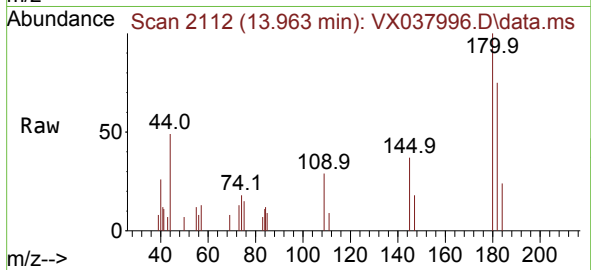
Tgt Ion:180 Resp: 835
Ion Ratio Lower Upper
180 100
182 104.9 48.3 144.8
145 36.5 18.0 54.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.287 ug/l
 RT: 13.963 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VX037996.D
 Acq: 30 Sep 2023 12:12

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:	180	Resp:	955
Ion	Ratio	Lower	Upper
180	100		
182	86.5	46.9	140.6
145	36.6	17.8	53.5

