

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021920\
 Data File : VX014958.D
 Acq On : 19 Feb 2020 10:54
 Operator : JC/SP
 Sample : VX0219WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

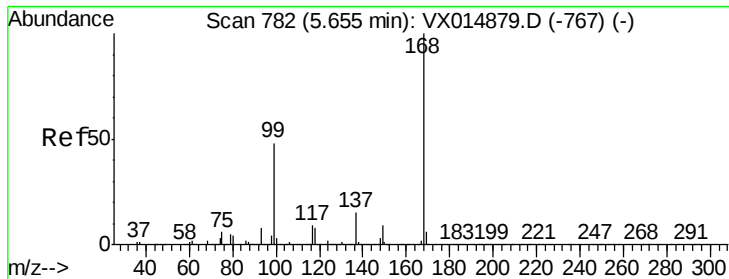
Quant Time: Feb 20 00:20:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	469503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	729972	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	663416	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	307419	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	262613	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
35) Dibromofluoromethane	5.48	113	219602	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
50) Toluene-d8	8.71	98	866734	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	11.13	95	293471	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1743	0.496	ug/l #	72
10) Methyl Iodide	2.51	142	2037	4.747	ug/l #	72
11) Tert butyl alcohol	3.04	59	201	0.215	ug/l #	72
13) Acrolein	2.30	56	280	0.393	ug/l #	15
15) Acrylonitrile	3.14	53	1075	0.453	ug/l #	82
16) Acetone	2.44	43	1781	Below Cal		93
17) Carbon Disulfide	2.56	76	3350	0.279	ug/l #	82
18) Methyl Acetate	2.76	43	2037	0.382	ug/l #	57
29) Tetrahydrofuran	5.25	42	698	0.340	ug/l #	92
36) 1,1-Dichloropropene	5.64	75	31084	4.760	ug/l #	51
38) Carbon Tetrachloride	5.65	117	41368	6.501	ug/l #	16
49) 1,4-Dioxane	7.73	88	247	2.389	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	145017	26.086	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	145017	66.773	ug/l #	12
87) 1,3-Dichlorobenzene	12.03	146	2079	0.215	ug/l #	81
88) 1,4-Dichlorobenzene	12.09	146	2224	0.226	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.00	75	384	0.260	ug/l #	19
93) 1,2,4-Trichlorobenzene	13.64	180	2052	0.294	ug/l	93
94) Hexachlorobutadiene	13.78	225	1102	0.326	ug/l	89
95) Naphthalene	13.83	128	4309	0.232	ug/l #	88
96) 1,2,3-Trichlorobenzene	14.02	180	2132	0.316	ug/l	92

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

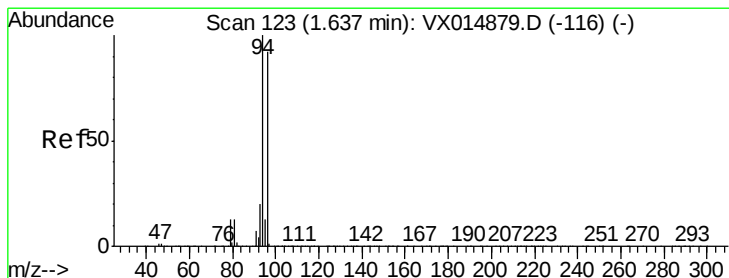
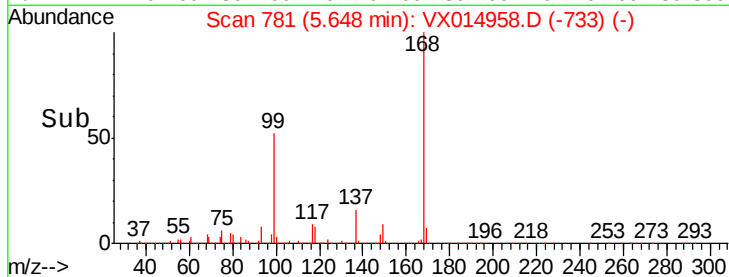
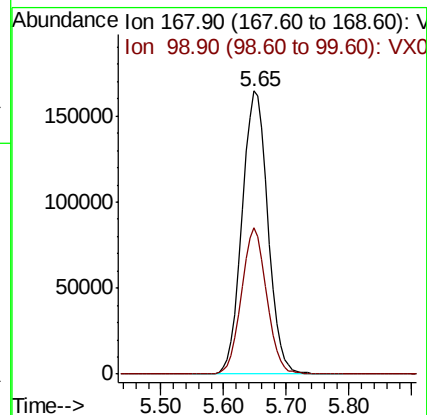
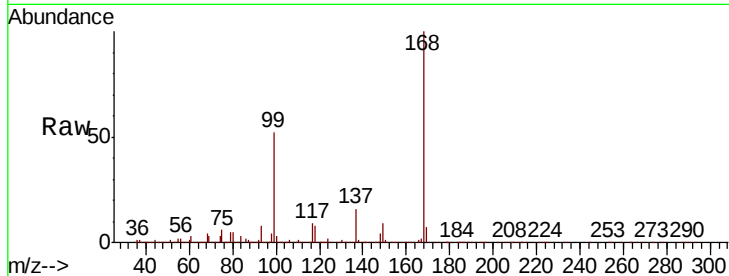


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.01 min
 Lab File: VX014958.D
 Acq: 19 Feb 2020 10:54

Instrument :
 MSVOA_X
 ClientSampleId :

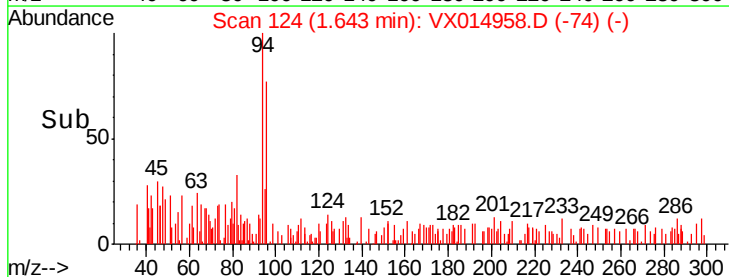
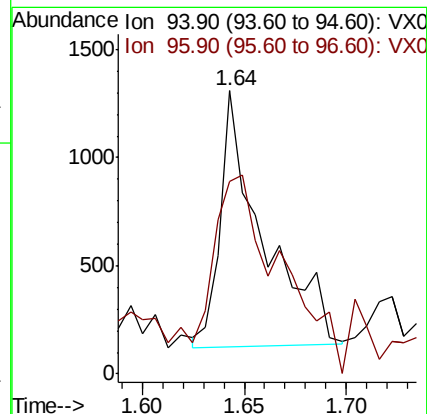
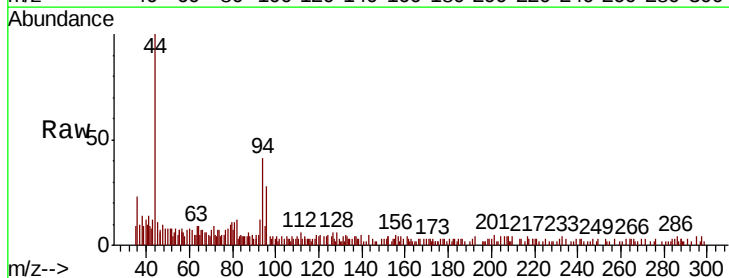
Tot Ion:168 Resp: 469503
 Ion Ratio Lower Upper
 168 100
 99 51.5 38.7 58.1

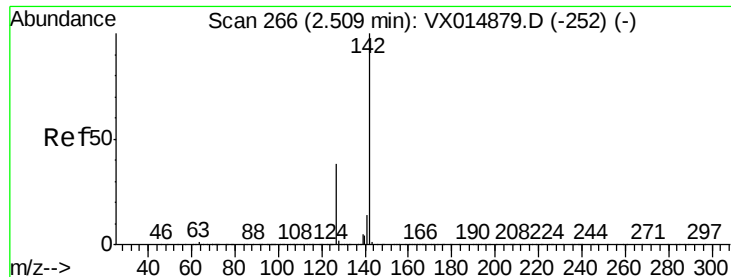


#5

Bromomethane
 Concen: 0.496 ug/l
 RT: 1.64 min Scan# 124
 Delta R.T. 0.01 min
 Lab File: VX014958.D
 Acq: 19 Feb 2020 10:54

Tgt Ion: 94 Resp: 1743
 Ion Ratio Lower Upper
 94 100
 96 65.1 73.7 110.5#

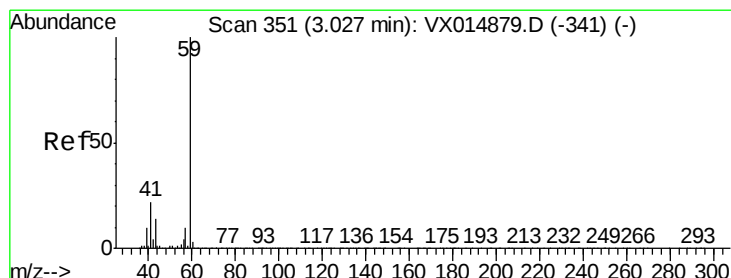
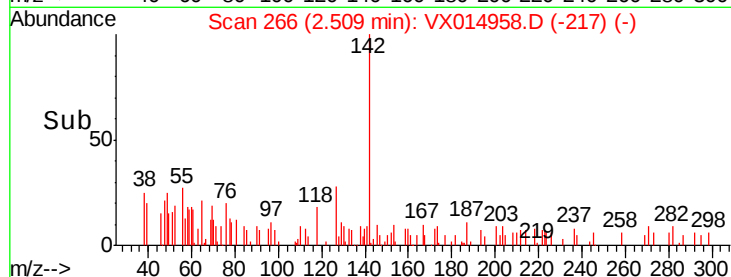
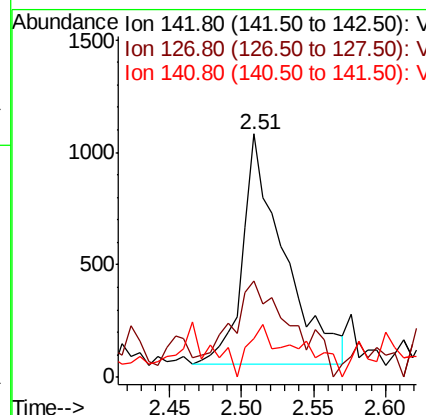
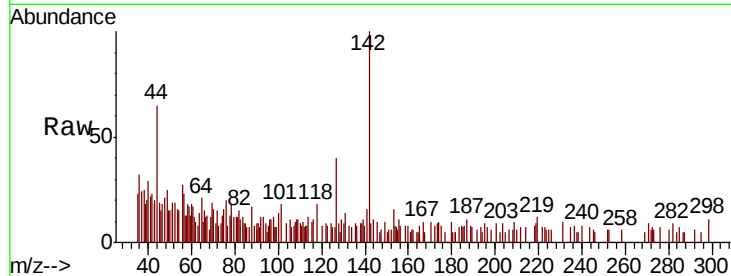




#10
Methvl Iodide
Concen: 4.747 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

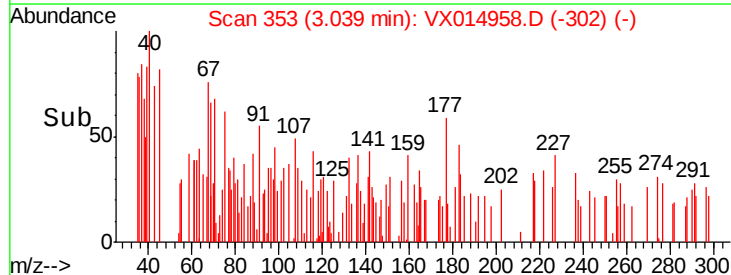
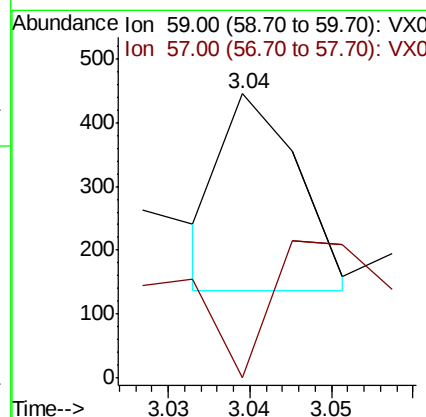
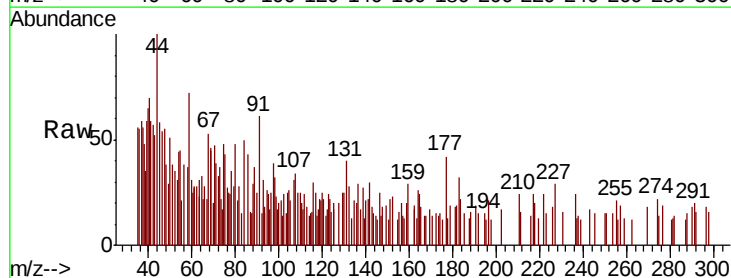
Instrument :
MSVOA_X
ClientSampled :

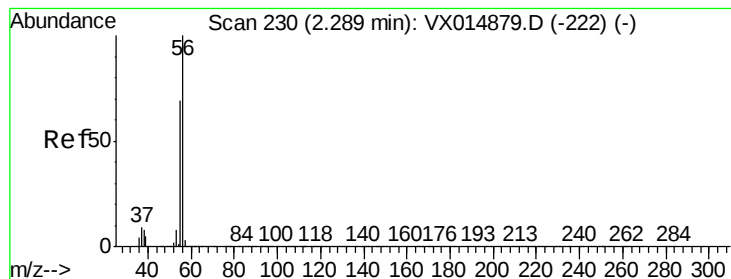
Tot Ion:142 Resp: 2037
Ion Ratio Lower Upper
142 100
127 61.8 31.1 46.7#
141 14.4 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.215 ug/l
RT: 3.04 min Scan# 353
Delta R.T. 0.01 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

Tgt Ion: 59 Resp: 201
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.393 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

Instrument :

MSVOA_X

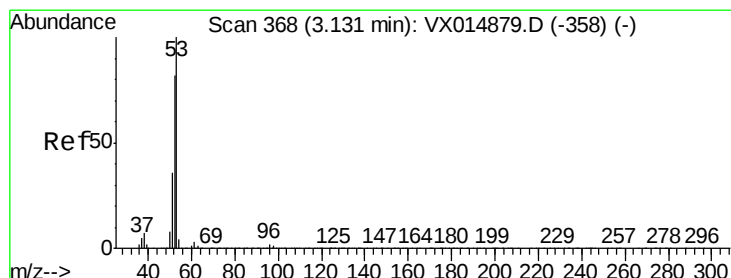
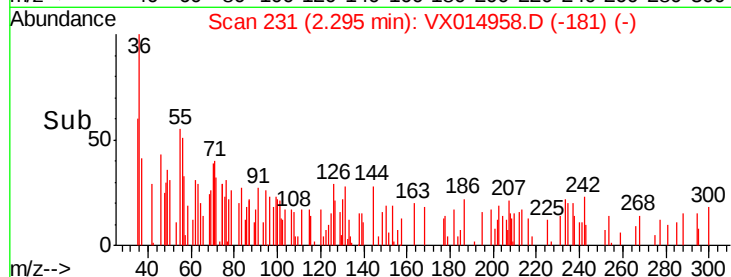
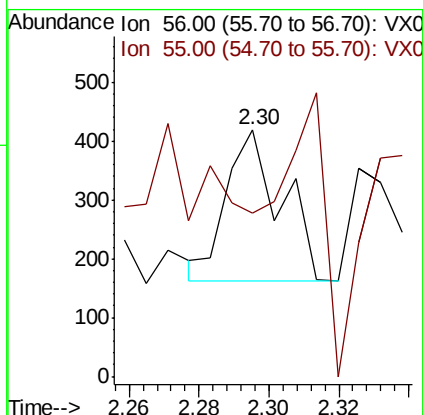
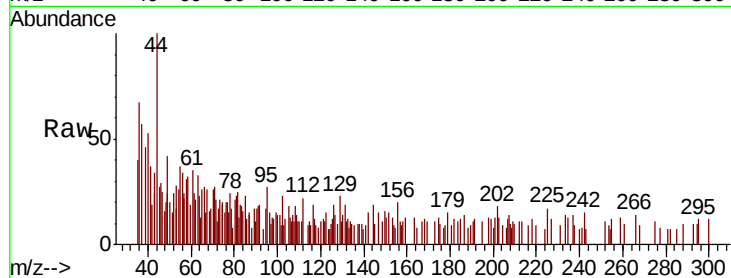
ClientSampleId :

Tot Ion: 56 Resp: 280

Ion Ratio Lower Upper

56 100

55 0.0 55.0 82.4#



#15

Acrylonitrile

Concen: 0.453 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

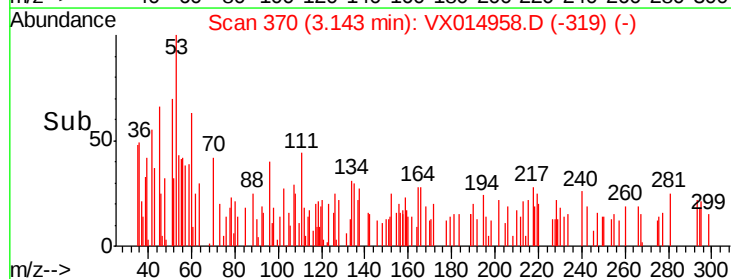
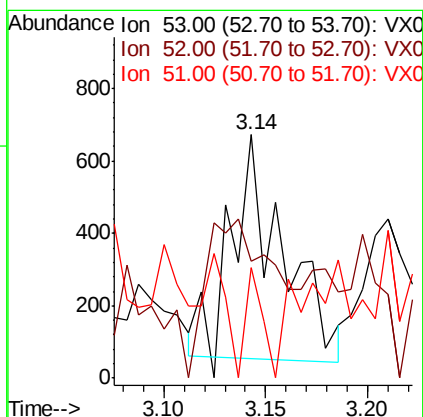
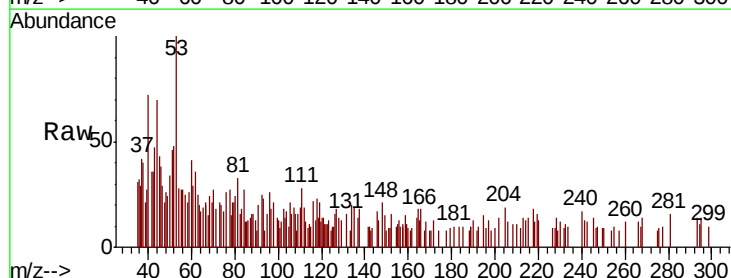
Tgt Ion: 53 Resp: 1075

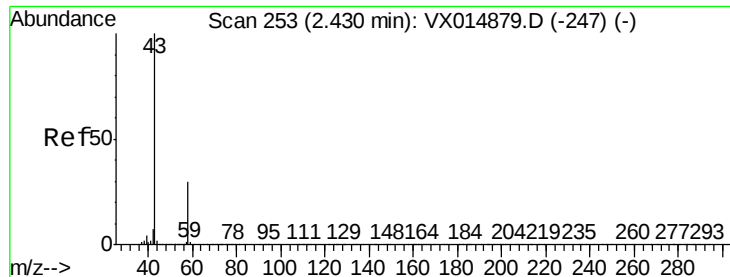
Ion Ratio Lower Upper

53 100

52 92.1 65.8 98.6

51 15.8 29.1 43.7#

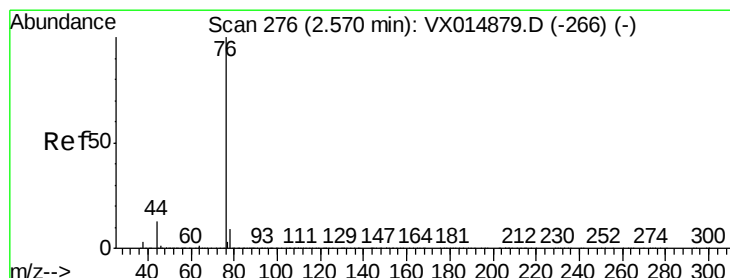
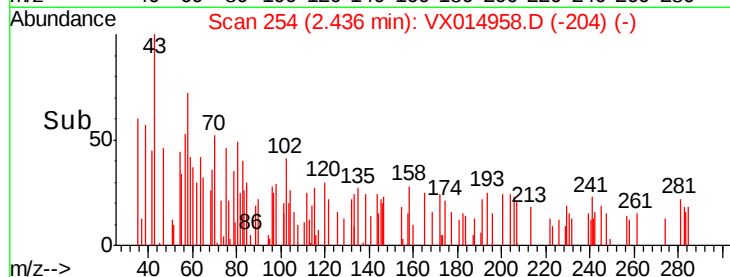
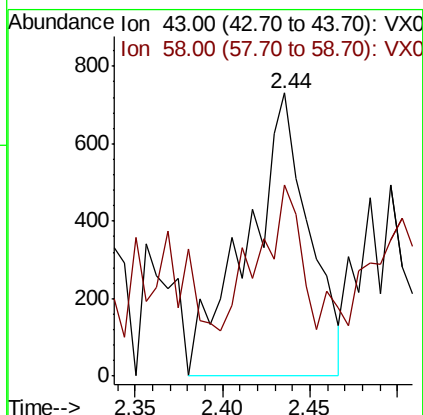
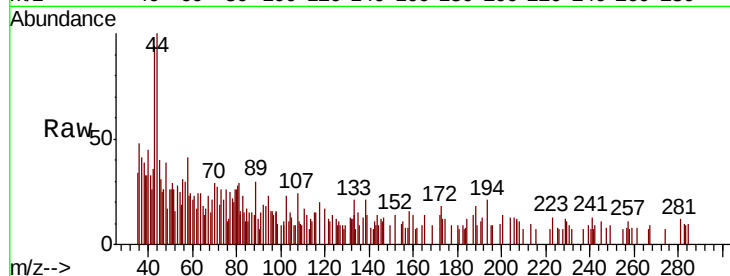




#16
Acetone
Concen: Below Cal
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

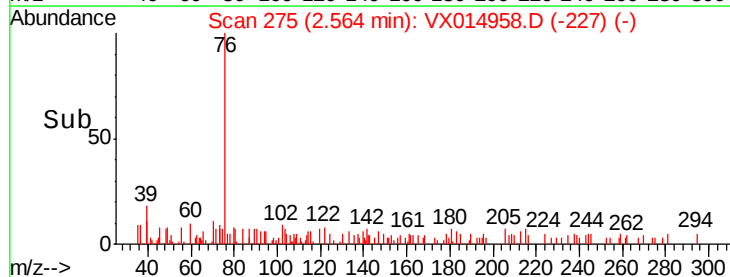
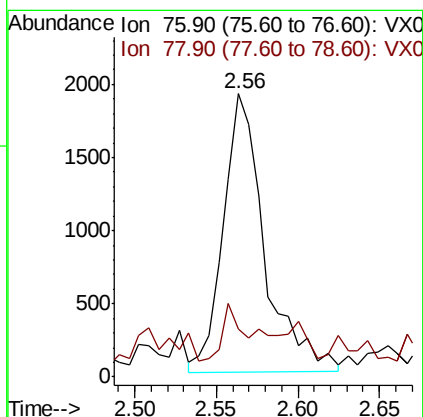
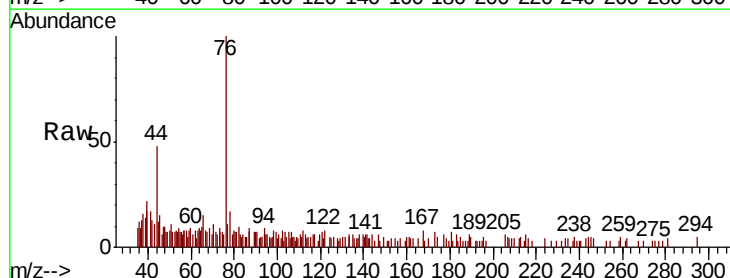
Instrument :
MSVOA_X
ClientSampled :

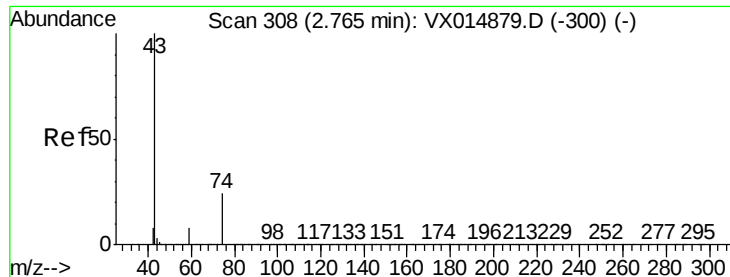
Tot Ion: 43 Resp: 1781
Ion Ratio Lower Upper
43 100
58 26.4 24.1 36.1



#17
Carbon Disulfide
Concen: 0.279 ug/l
RT: 2.56 min Scan# 275
Delta R.T. -0.01 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

Tgt Ion: 76 Resp: 3350
Ion Ratio Lower Upper
76 100
78 2.6 7.4 11.0#

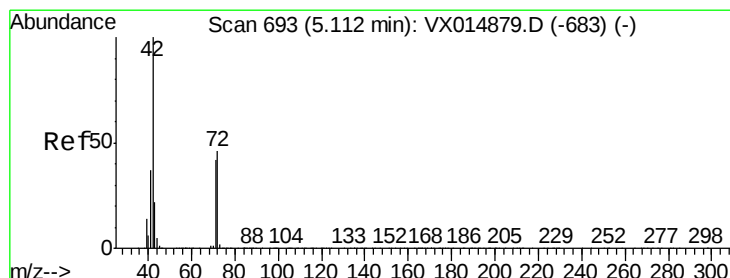
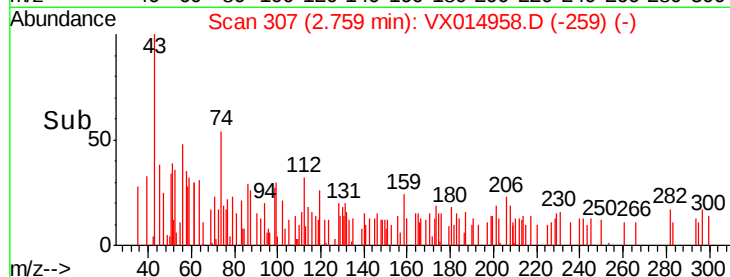
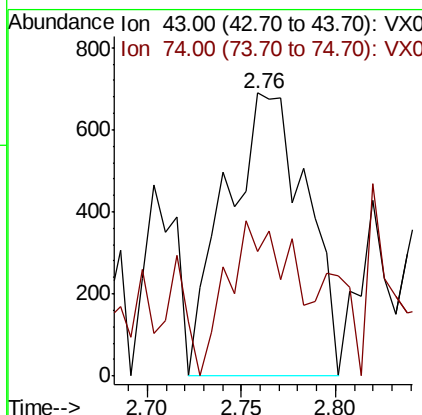
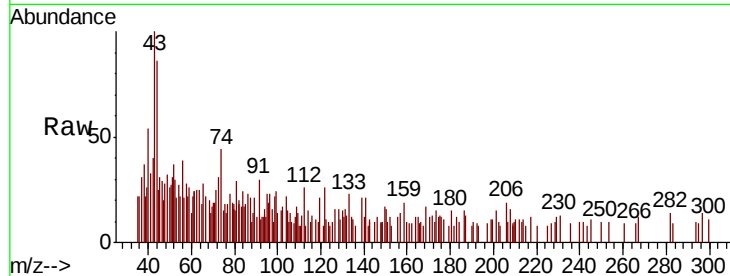




#18
Methyl Acetate
Concen: 0.382 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

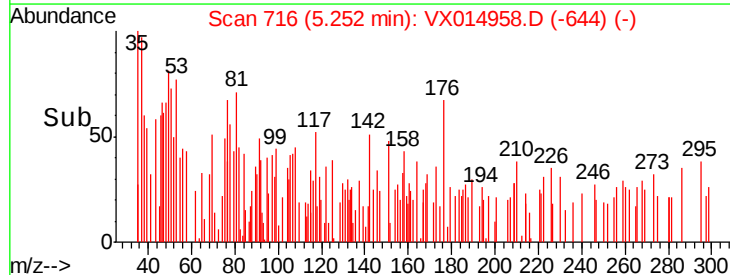
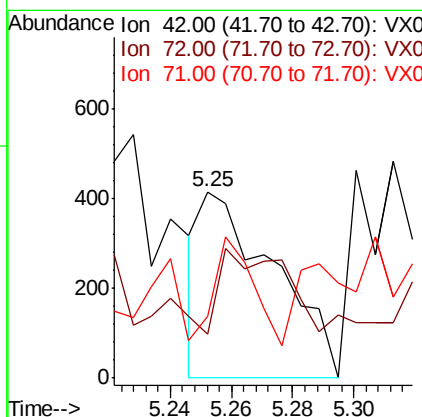
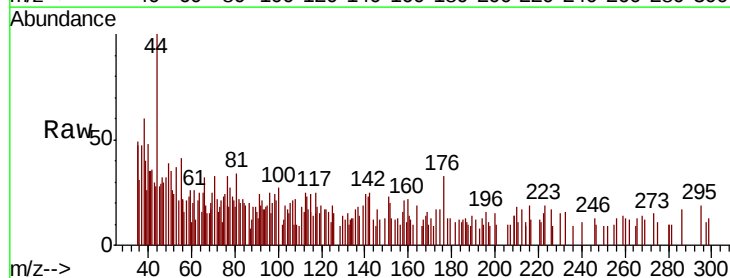
Instrument :
MSVOA_X
ClientSampled :

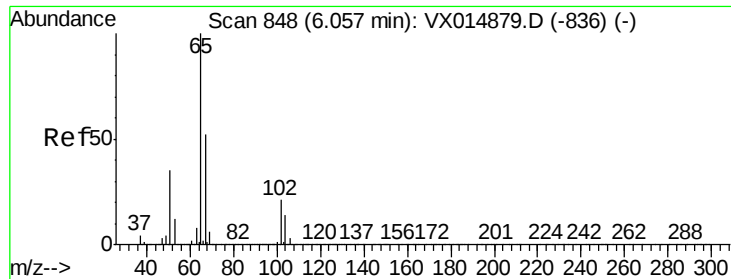
Tot Ion: 43 Resp: 2037
Ion Ratio Lower Upper
43 100
74 45.5 19.4 29.0#



#29
Tetrahydrofuran
Concen: 0.340 ug/l
RT: 5.25 min Scan# 716
Delta R.T. 0.14 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

Tgt Ion: 42 Resp: 698
Ion Ratio Lower Upper
42 100
72 42.6 36.9 55.3
71 49.1 34.1 51.1

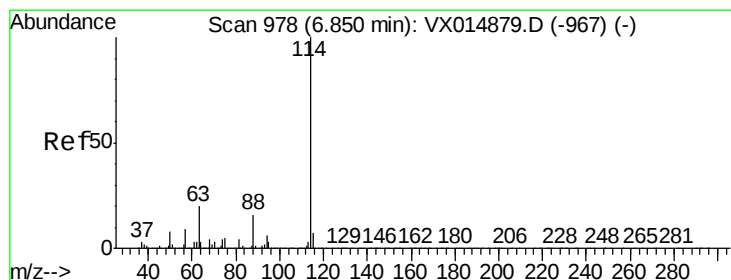
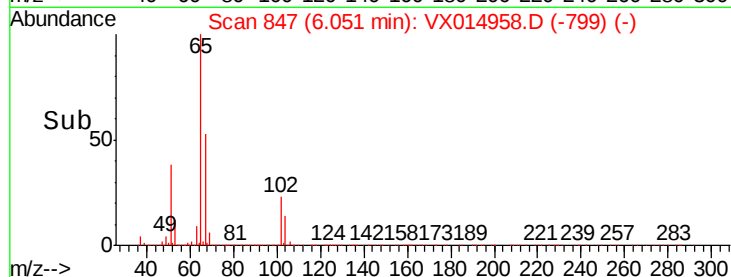
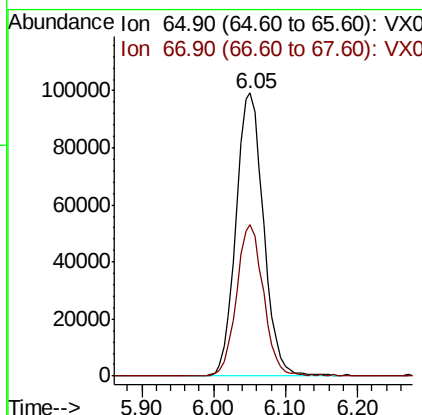
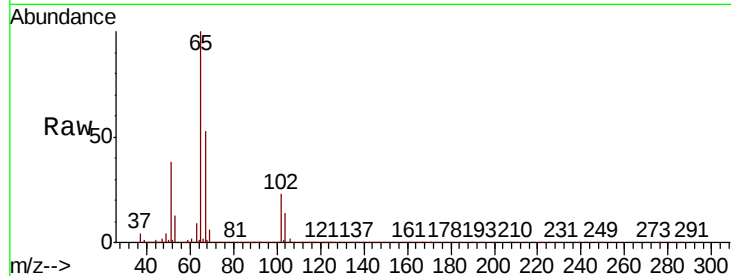




#33
 1,2-Dichloroethane-d4
 Concen: 49.562 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX014958.D
 Acq: 19 Feb 2020 10:54

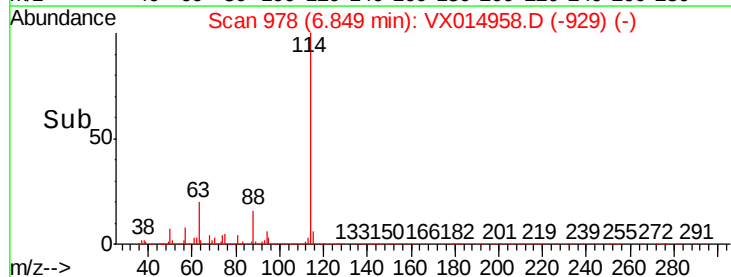
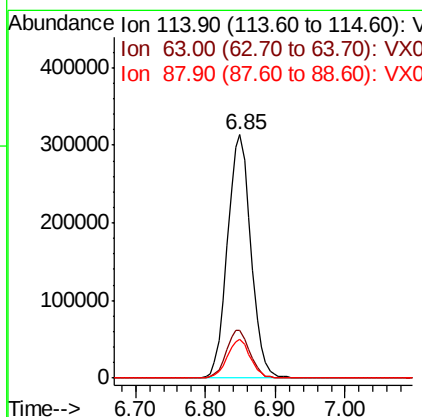
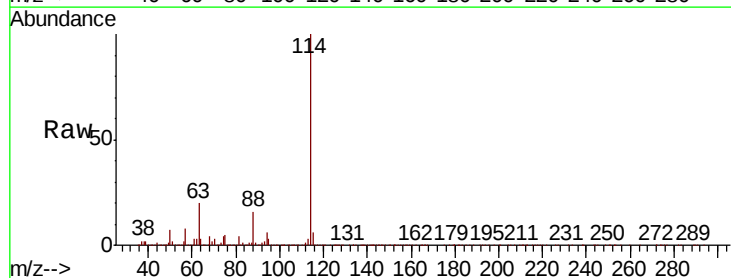
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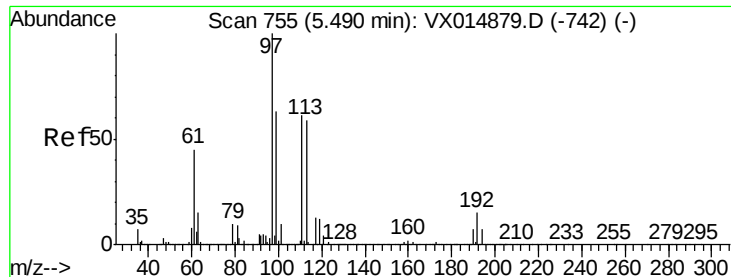
Tot Ion: 65 Resp: 262613
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014958.D
 Acq: 19 Feb 2020 10:54

Tgt Ion: 114 Resp: 729972
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.2
 88 15.6 0.0 32.0

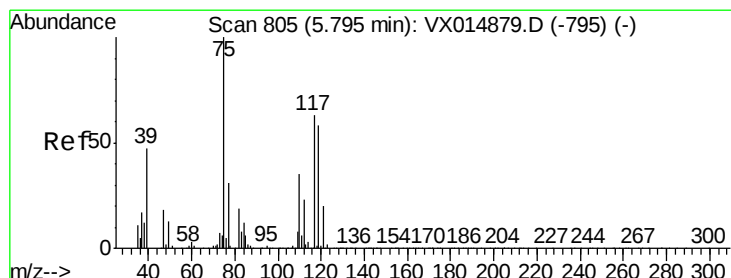
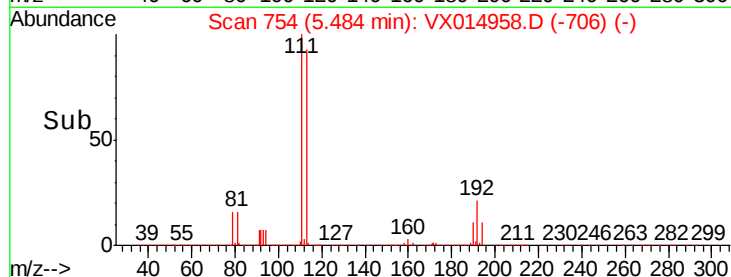
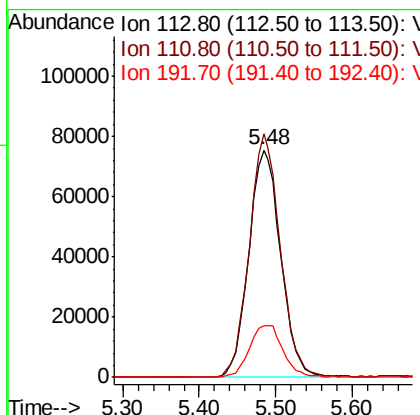
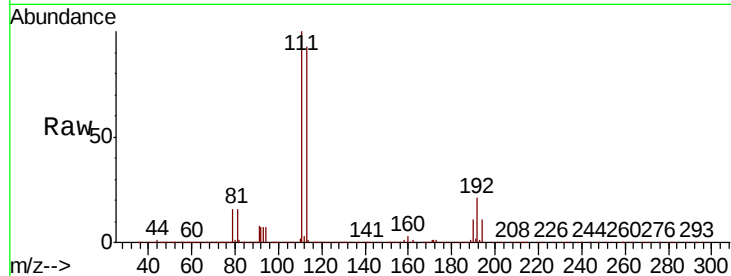




#35
Dibromofluoromethane
Concen: 48.934 ug/l
RT: 5.48 min Scan# 754
Delta R.T. -0.01 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

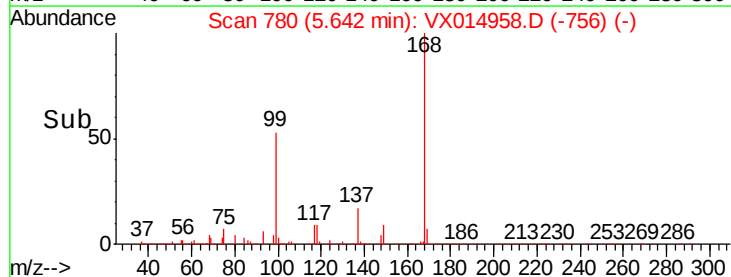
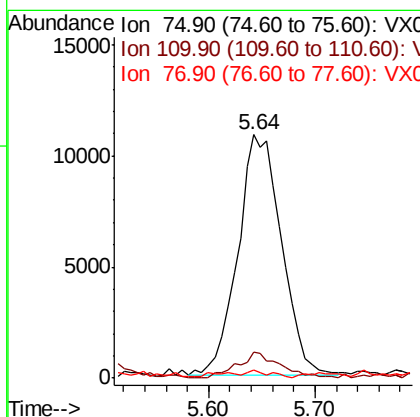
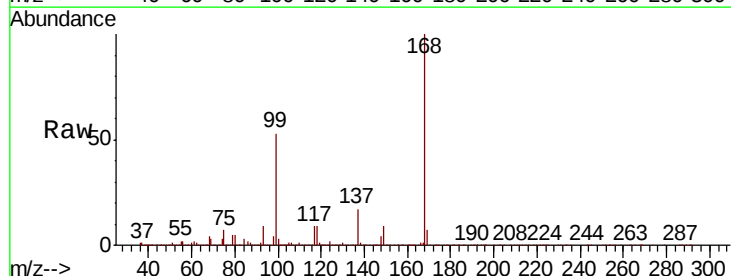
Instrument :
MSVOA_X
ClientSampleId :

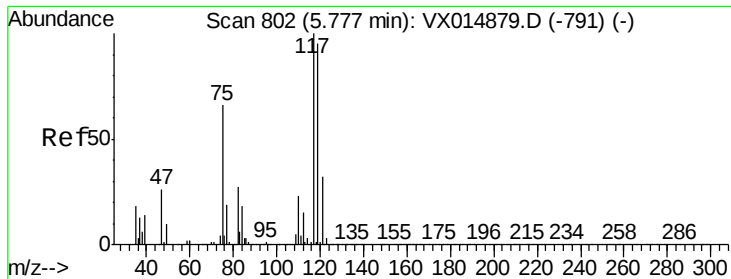
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.4	123.6
192	23.4	19.1	28.7



#36
1,1-Dichloropropene
Concen: 4.760 ug/l
RT: 5.64 min Scan# 780
Delta R.T. -0.15 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	18.3	54.8#
77	0.7	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.501 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

Instrument :

MSVOA_X

ClientSampleId :

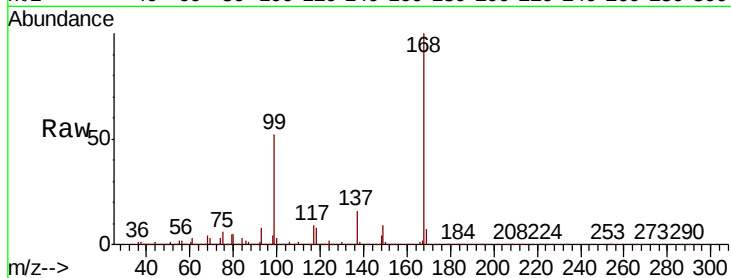
Tot Ion:117 Resp: 41368

Ion Ratio Lower Upper

117 100

119 4.4 76.0 114.0#

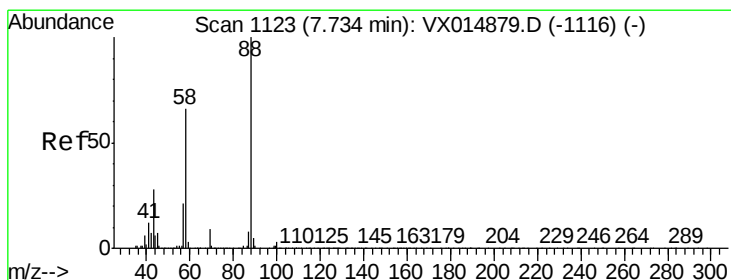
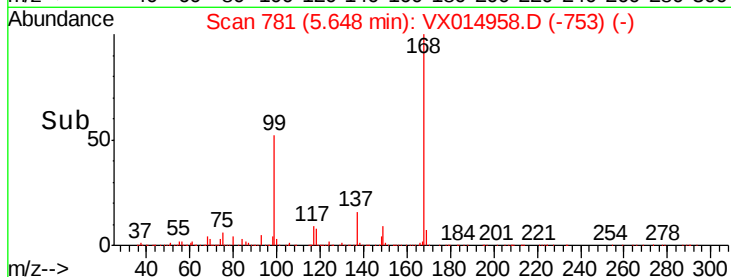
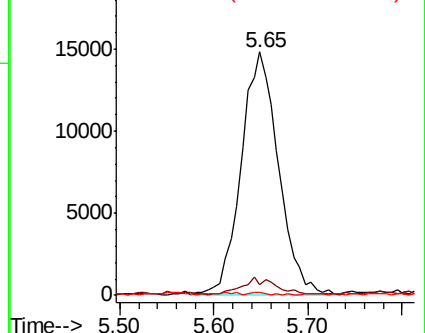
121 0.6 25.4 38.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 2.389 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

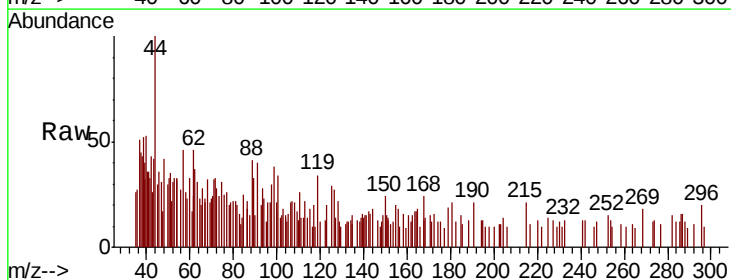
Tgt Ion: 88 Resp: 247

Ion Ratio Lower Upper

88 100

43 249.8 27.0 40.4#

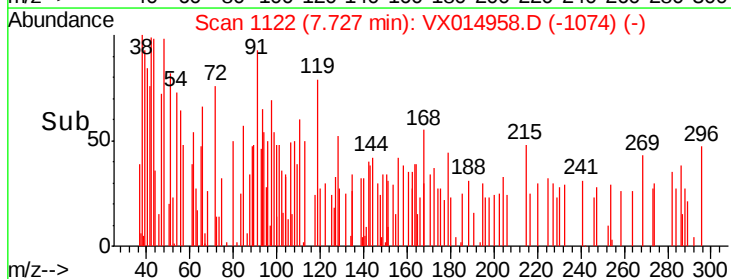
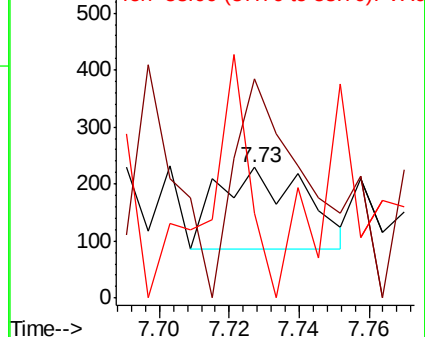
58 105.3 53.2 79.8#

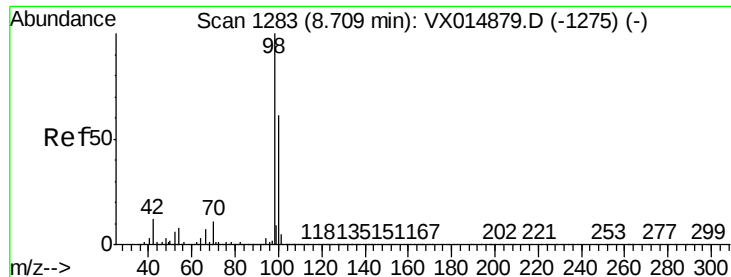


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.598 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

Instrument :

MSVOA_X

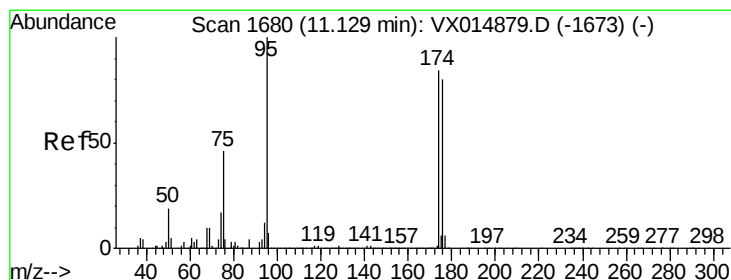
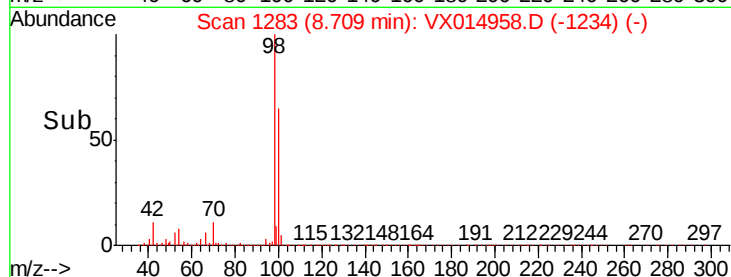
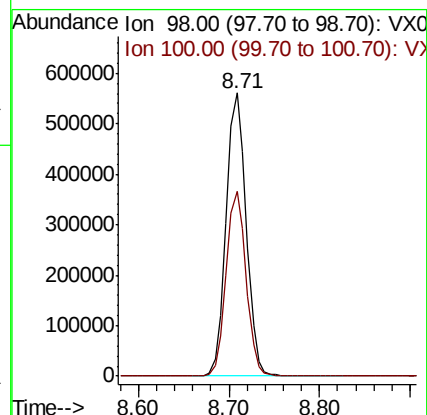
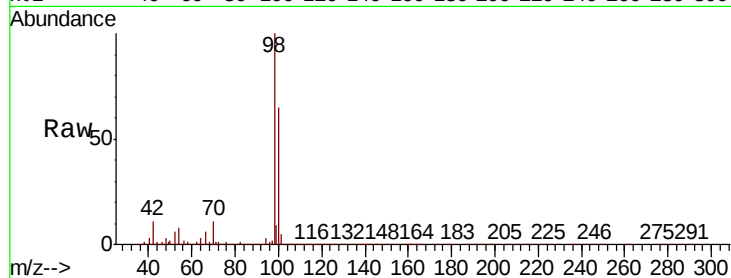
ClientSampleId :

Tot Ion: 98 Resp: 866734

Ion Ratio Lower Upper

98 100

100 65.1 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 47.559 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

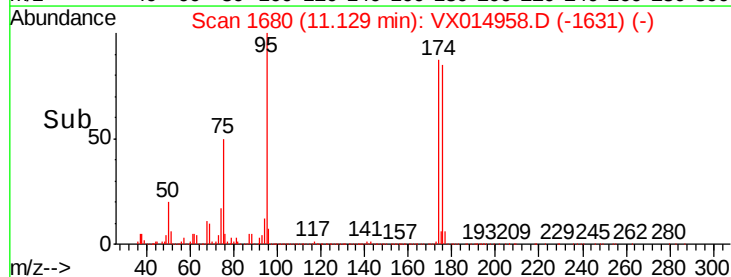
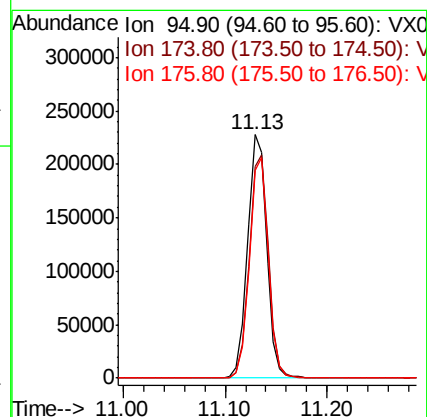
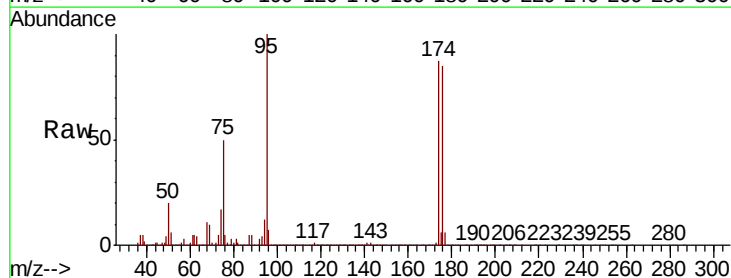
Tgt Ion: 95 Resp: 293471

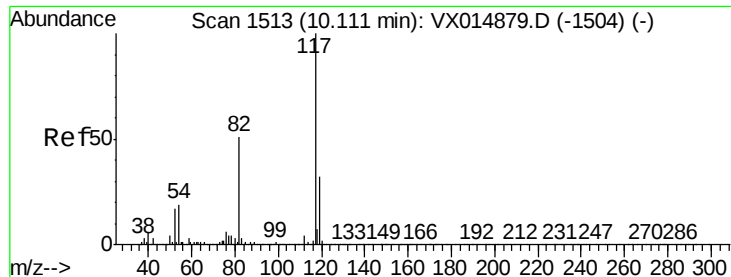
Ion Ratio Lower Upper

95 100

174 92.7 0.0 183.0

176 90.0 0.0 178.0

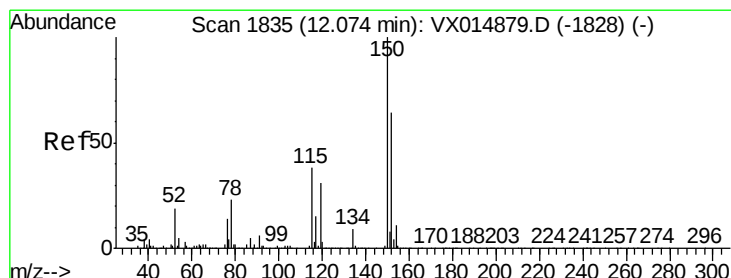
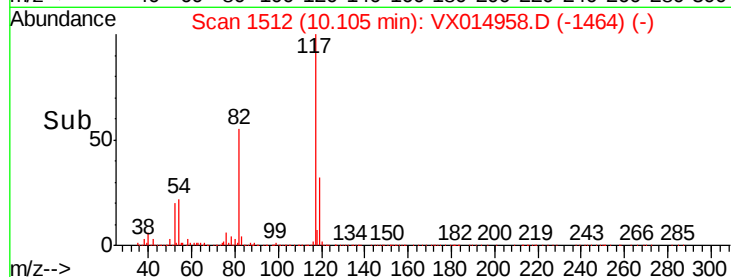
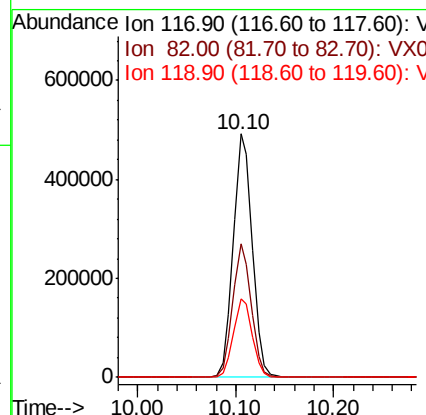
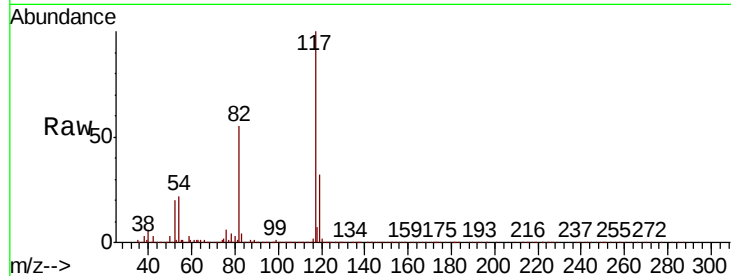




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

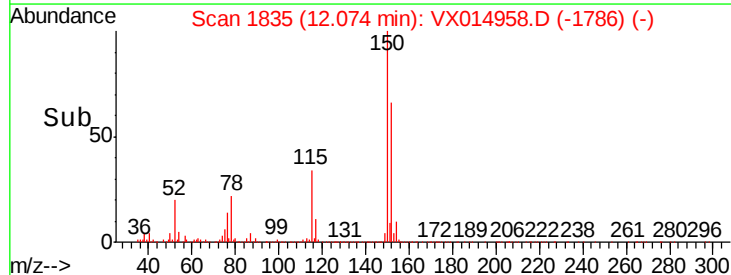
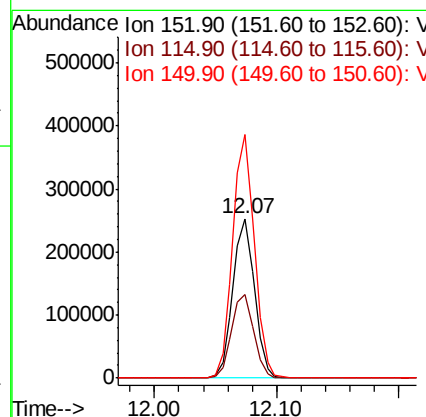
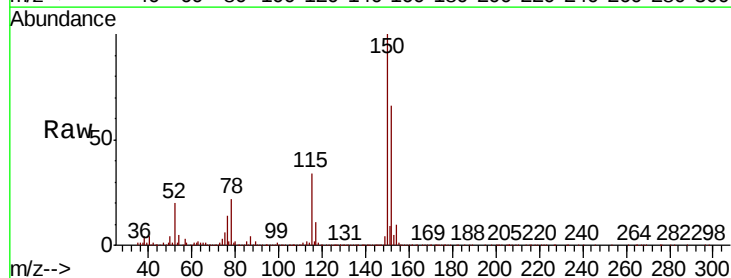
Instrument :
MSVOA_X
ClientSampleId :

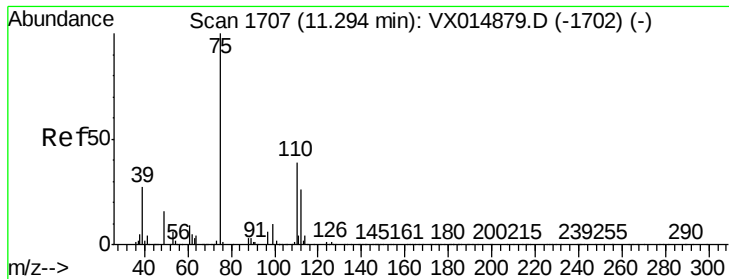
Tot Ion:117 Resp: 663416
Ion Ratio Lower Upper
117 100
82 55.1 40.5 60.7
119 32.1 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014958.D
Acq: 19 Feb 2020 10:54

Tgt Ion:152 Resp: 307419
Ion Ratio Lower Upper
152 100
115 53.7 38.6 116.0
150 153.0 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 26.086 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

Instrument :

MSVOA_X

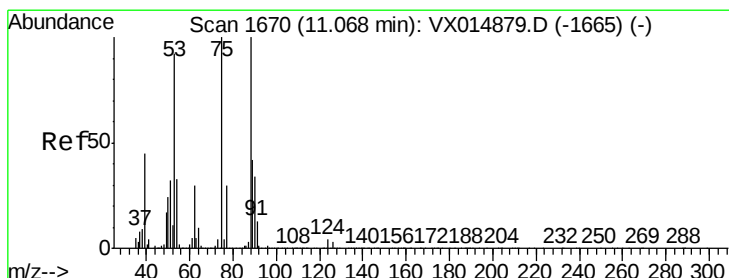
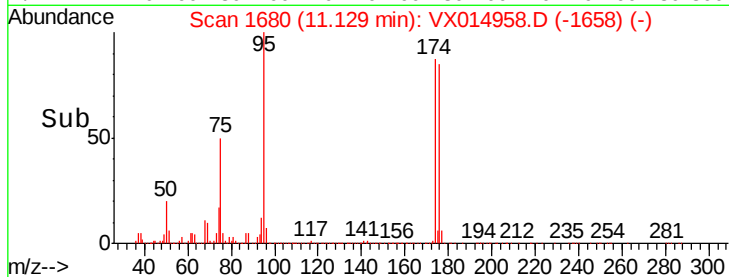
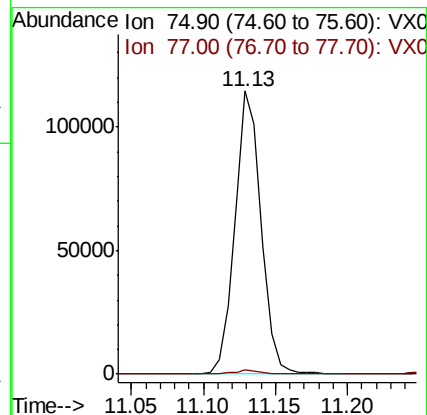
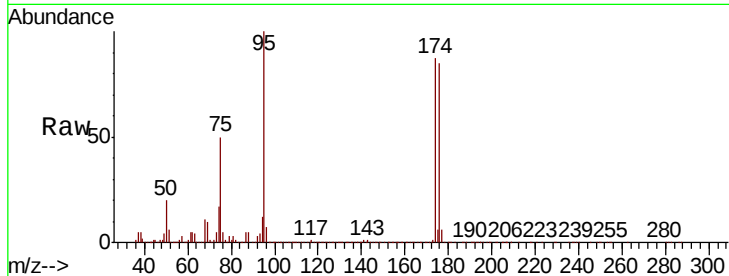
ClientSampled :

Tot Ion: 75 Resp: 145017

Ion Ratio Lower Upper

75 100

77 1.8 18.4 55.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.773 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

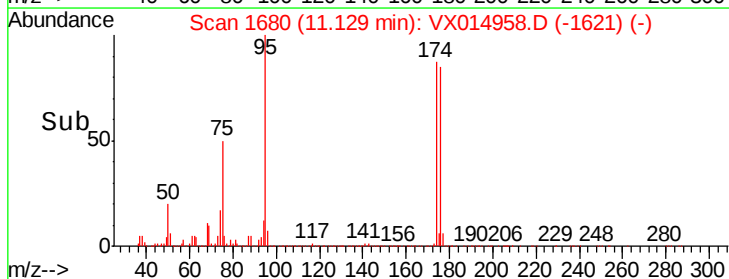
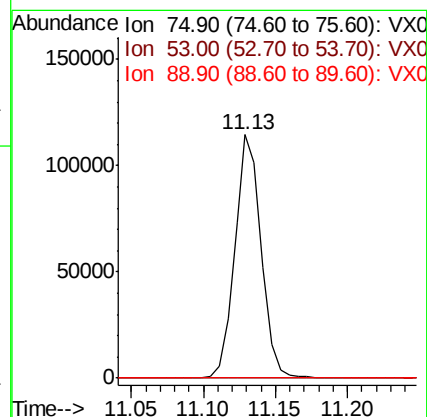
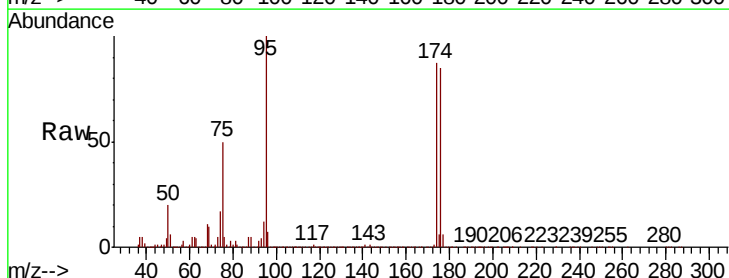
Tgt Ion: 75 Resp: 145017

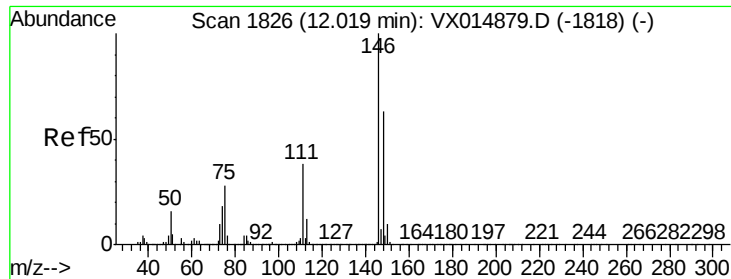
Ion Ratio Lower Upper

75 100

53 0.4 76.2 114.2#

89 0.0 35.8 53.6#

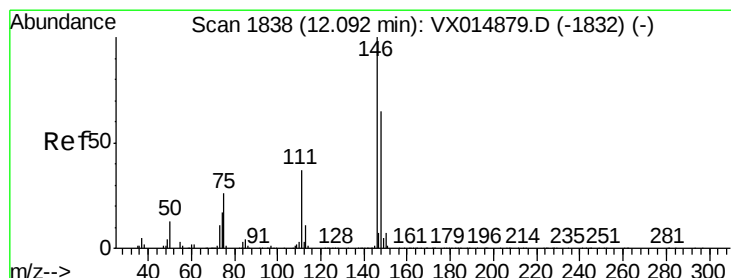
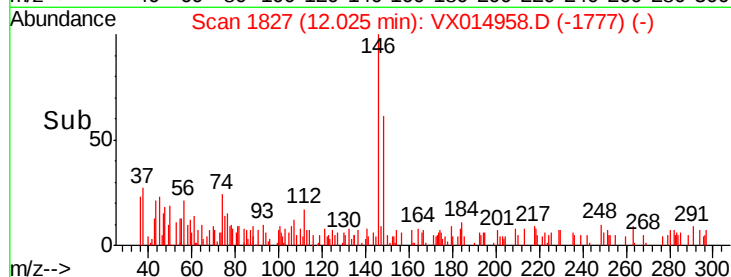
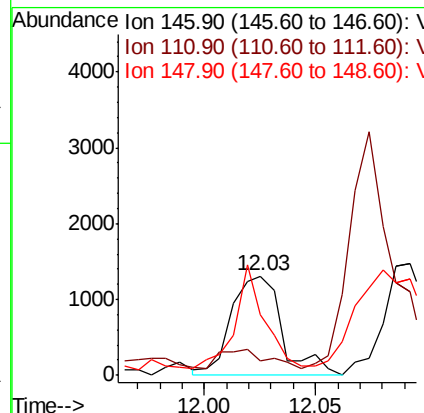
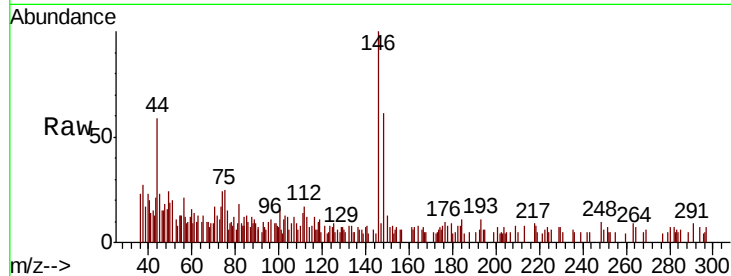




#87
 1,3-Dichlorobenzene
 Concen: 0.215 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX014958.D
 Acq: 19 Feb 2020 10:54

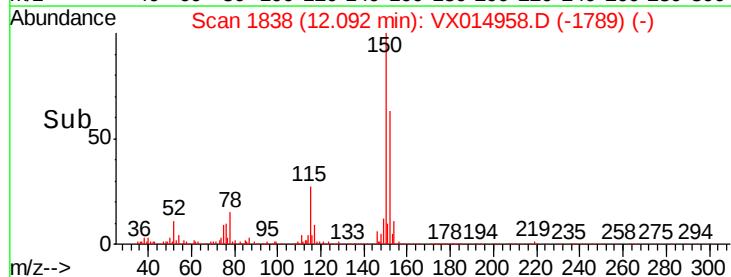
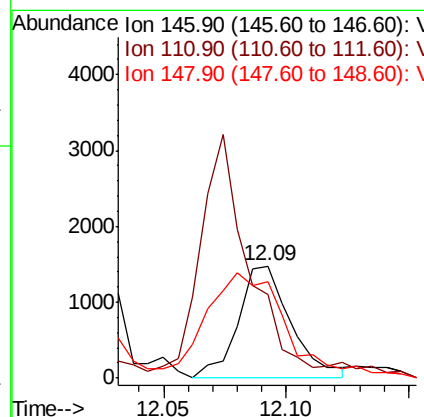
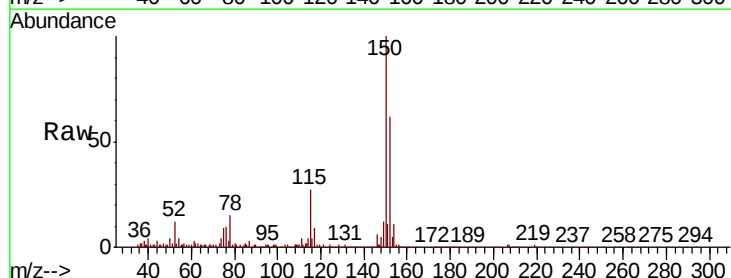
Instrument :
 MSVOA_X
 ClientSampleId :

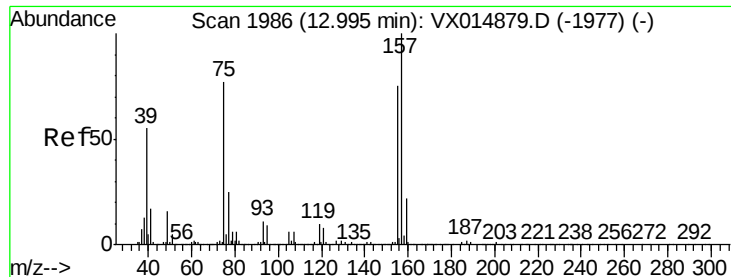
Tot Ion:146 Resp: 2079
 Ion Ratio Lower Upper
 146 100
 111 18.1 18.6 56.0#
 148 72.5 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 0.226 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX014958.D
 Acq: 19 Feb 2020 10:54

Tgt Ion:146 Resp: 2224
 Ion Ratio Lower Upper
 146 100
 111 186.6 18.6 55.6#
 148 145.1 32.4 97.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.260 ug/l

RT: 13.00 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

Instrument :

MSVOA_X

ClientSampleId :

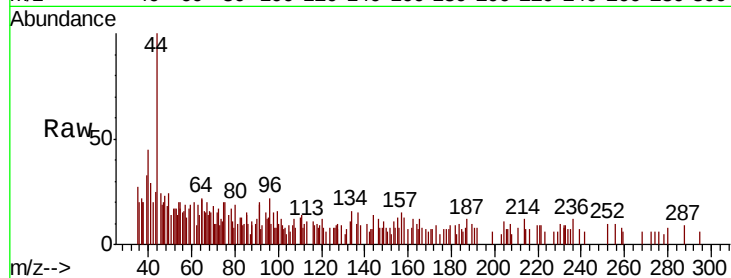
Tot Ion: 75 Resp: 384

Ion Ratio Lower Upper

75 100

155 53.4 48.6 145.9

157 0.0 62.0 186.0#

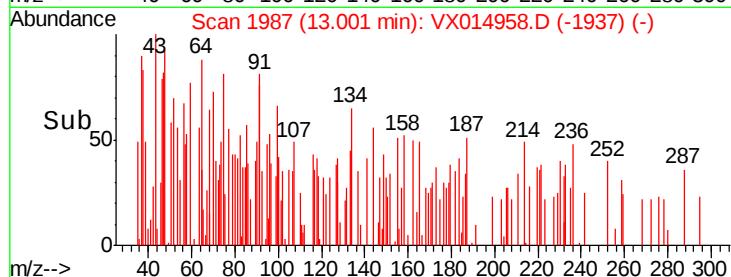


Abundance Ion 74.90 (74.60 to 75.60): VX0

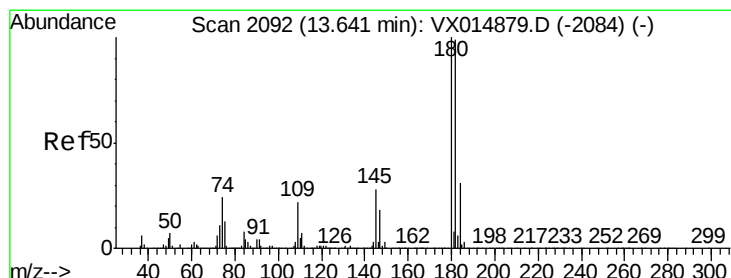
Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

Time-->



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.294 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. -0.00 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

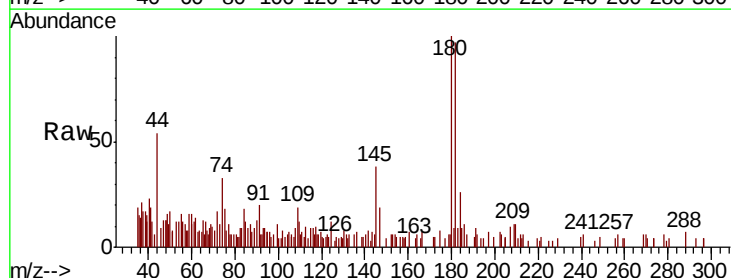
Tgt Ion:180 Resp: 2052

Ion Ratio Lower Upper

180 100

182 95.3 48.4 145.3

145 40.6 14.1 42.4

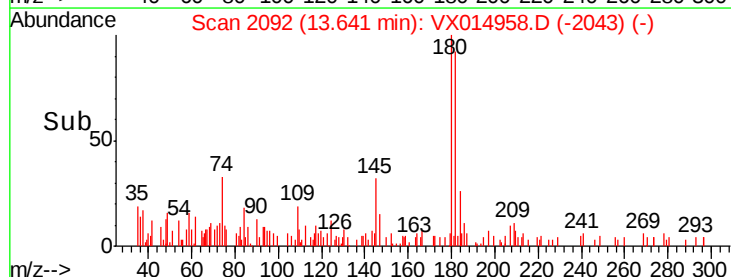


Abundance Ion 179.80 (179.50 to 180.50): V

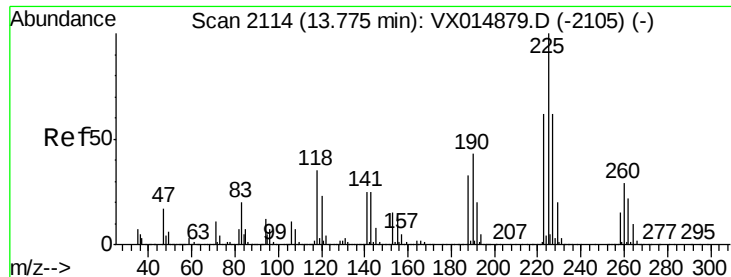
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

Time-->



Time-->



#94

Hexachlorobutadiene

Concen: 0.326 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

Instrument :

MSVOA_X

ClientSampleId :

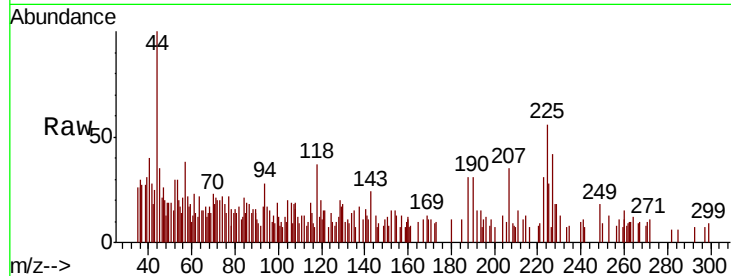
Tot Ion:225 Resp: 1102

Ion Ratio Lower Upper

225 100

223 52.3 31.1 93.2

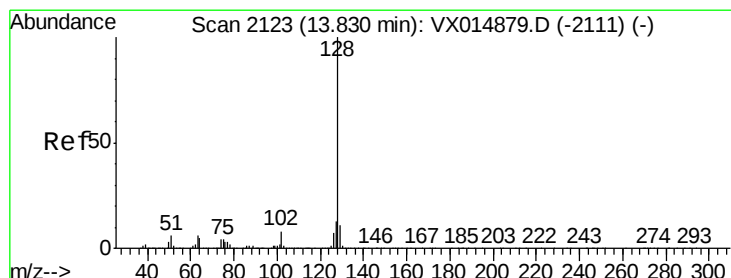
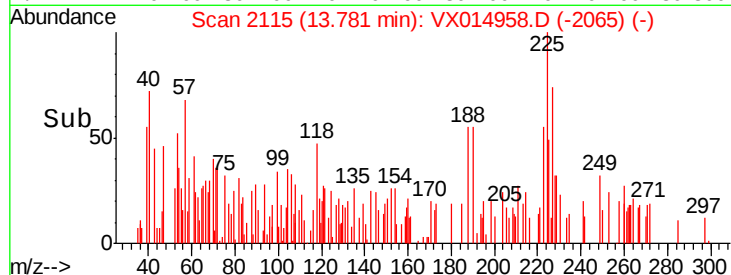
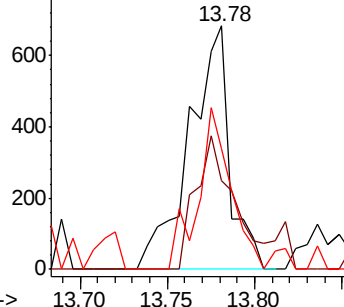
227 54.5 30.9 92.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.232 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX014958.D

Acq: 19 Feb 2020 10:54

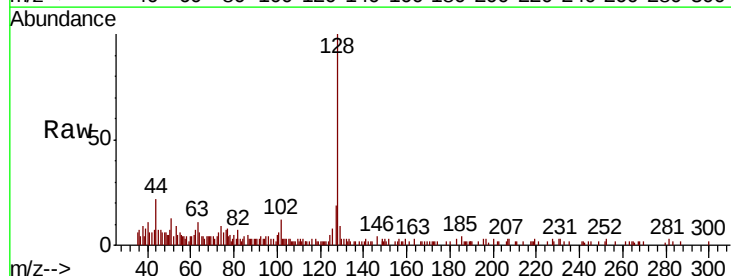
Tgt Ion:128 Resp: 4309

Ion Ratio Lower Upper

128 100

127 19.8 10.4 15.6#

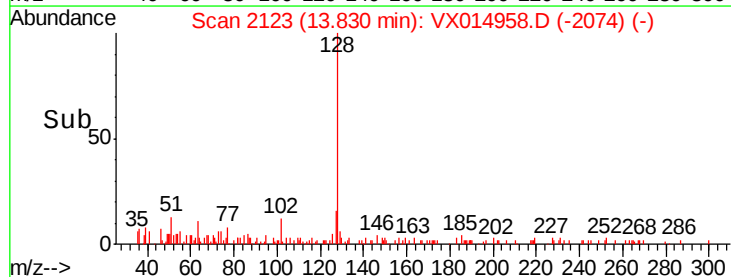
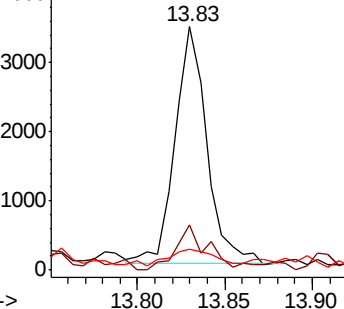
129 8.4 8.6 13.0#

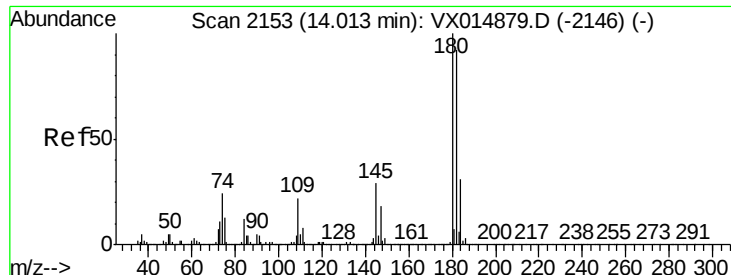


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

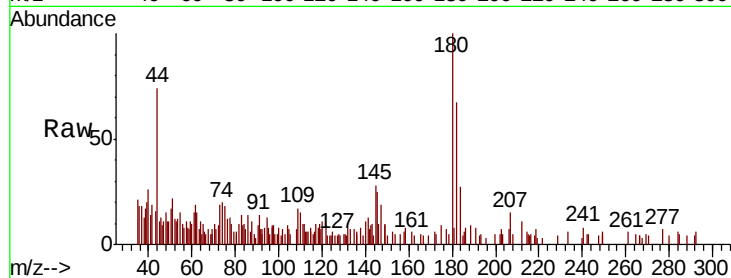




#96
 1,2,3-Trichlorobenzene
 Concen: 0.316 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX014958.D
 Acq: 19 Feb 2020 10:54

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.1	47.5	142.6
145	35.2	14.5	43.5



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

