

Data File : VX013961.D
Acq On : 11 Dec 2019 23:21
Operator : JC/SP
Sample : K6252-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03-20191210

Quant Time: Dec 12 04:08:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	554372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	842899	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	750214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	324455	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	313478	48.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.42%	
35) Dibromofluoromethane	5.49	113	252672	48.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.98%	
50) Toluene-d8	8.71	98	1004327	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	11.14	95	333936	45.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.22%	

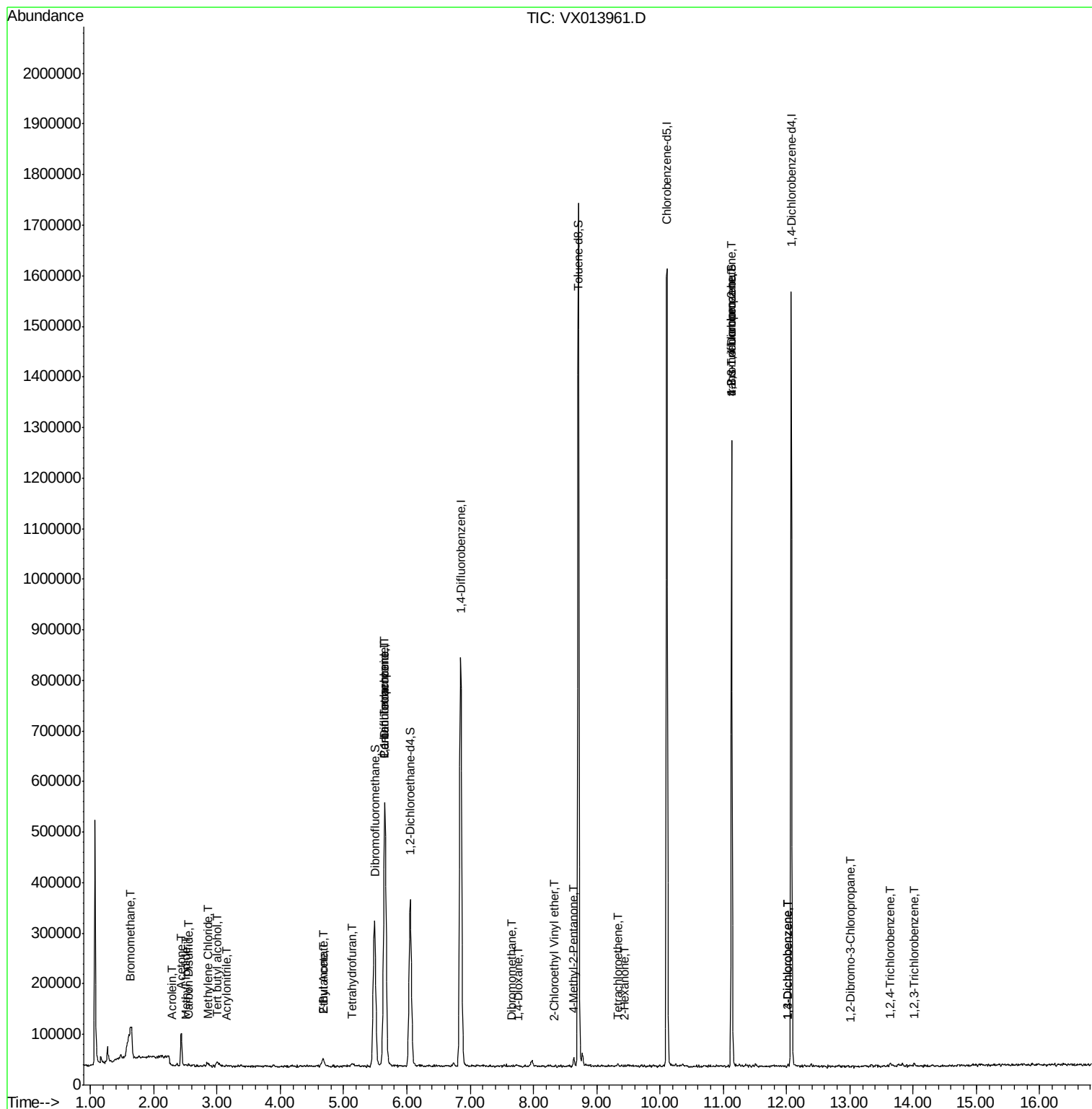
Target Compounds						Qvalue
5) Bromomethane	1.63	94	3317	0.634	ug/l #	80
10) Methyl Iodide	2.51	142	2757	0.431	ug/l #	49
11) Tert butyl alcohol	3.01	59	7361	4.634	ug/l #	87
13) Acrolein	2.28	56	200	6.188	ug/l #	1
15) Acrylonitrile	3.14	53	754	0.230	ug/l #	51
16) Acetone	2.43	43	70217	22.101	ug/l	96
17) Carbon Disulfide	2.56	76	3893	0.259	ug/l #	91
20) Methylene Chloride	2.85	84	4677	0.766	ug/l #	79
25) 2-Butanone	4.67	43	26278	5.565	ug/l	94
29) Tetrahydrofuran	5.12	42	5382	1.849	ug/l #	67
36) 1,1-Dichloropropene	5.65	75	38193	4.992	ug/l #	50
37) Ethyl Acetate	4.67	43	26278	3.061	ug/l #	73
38) Carbon Tetrachloride	5.65	117	48550	6.881	ug/l #	16
46) Dibromomethane	7.67	93	793	0.200	ug/l #	72
49) 1,4-Dioxane	7.75	88	751	4.886	ug/l #	61
51) 4-Methyl-2-Pentanone	8.64	43	10755	1.210	ug/l	96
58) 2-Chloroethyl Vinyl ether	8.33	63	1149	0.312	ug/l #	78
59) 2-Hexanone	9.43	43	2439	0.352	ug/l	63
64) Tetrachloroethene	9.32	164	1187	0.212	ug/l #	46
76) 1,2,3-Trichloropropane	11.13	75	160512	21.995	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	160512	60.175	ug/l #	11
87) 1,3-Dichlorobenzene	12.02	146	2382	0.222	ug/l	82
88) 1,4-Dichlorobenzene	12.02	146	2382	0.218	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	13.02	75	474	0.276	ug/l	67
93) 1,2,4-Trichlorobenzene	13.63	180	2483	0.336	ug/l	76
96) 1,2,3-Trichlorobenzene	14.01	180	2276	0.311	ug/l #	75

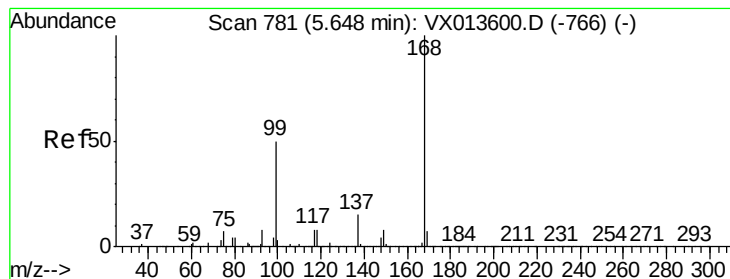
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

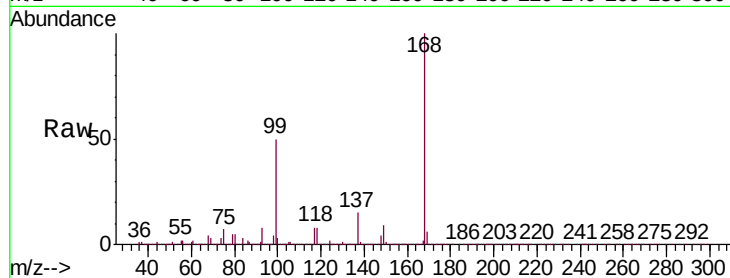
TB03-20191210

Tgt Ion: 168 Resp: 554372

Ion Ratio Lower Upper

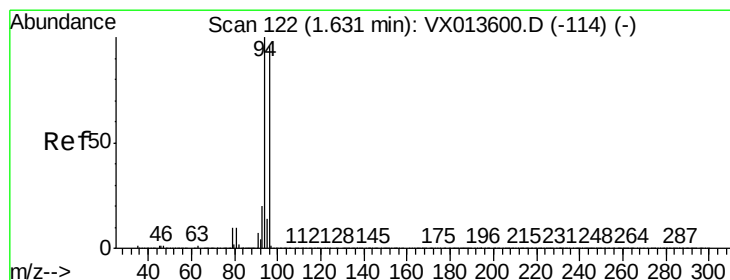
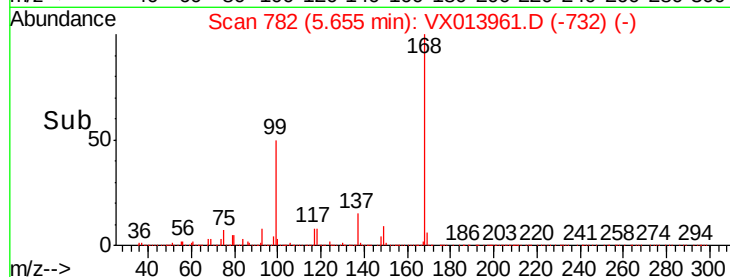
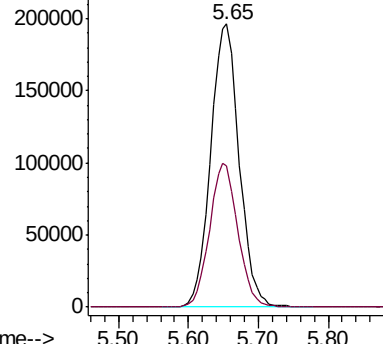
168 100

99 49.8 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.634 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013961.D

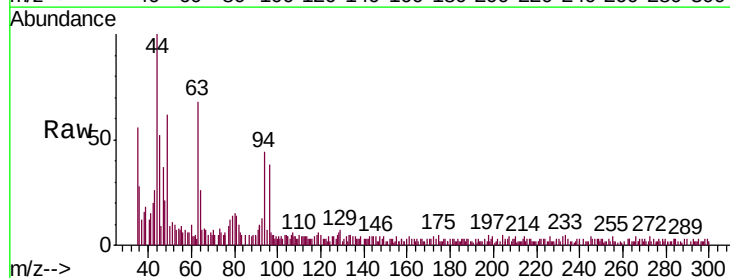
Acq: 11 Dec 2019 23:21

Tgt Ion: 94 Resp: 3317

Ion Ratio Lower Upper

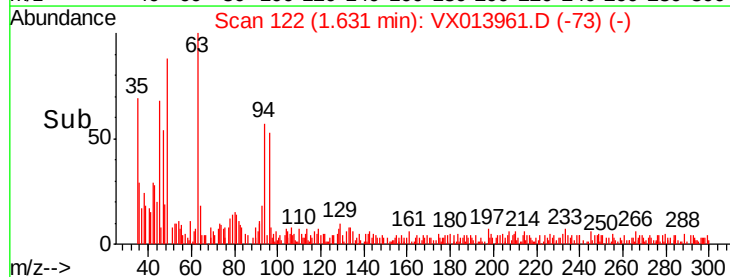
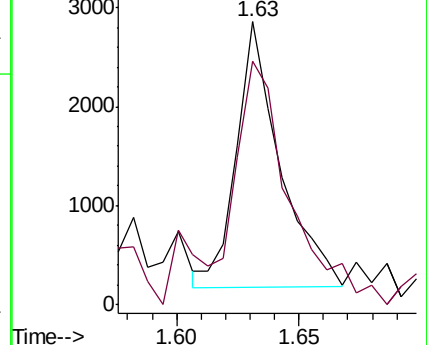
94 100

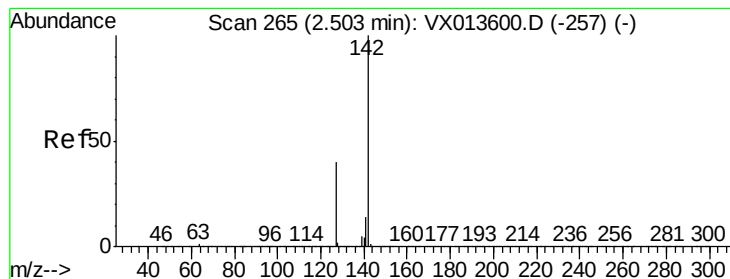
96 76.8 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methyl Iodide

Concen: 0.431 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

TB03-20191210

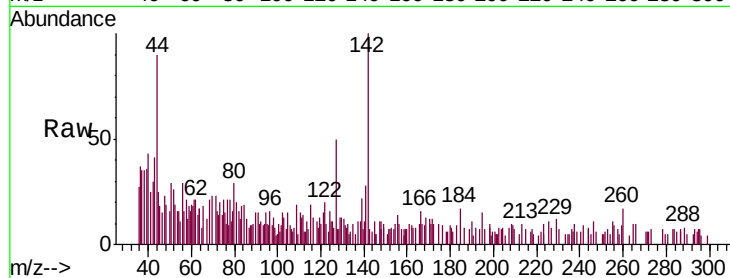
Tgt Ion: 142 Resp: 2757

Ion Ratio Lower Upper

142 100

127 75.2 31.0 46.4#

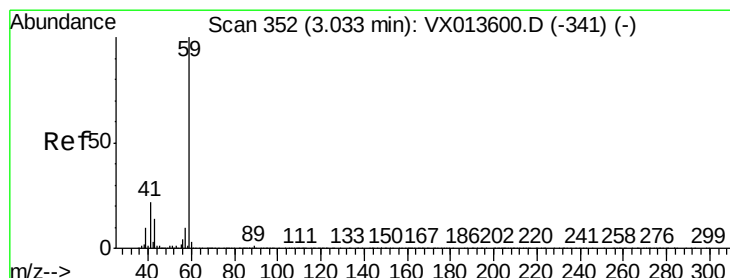
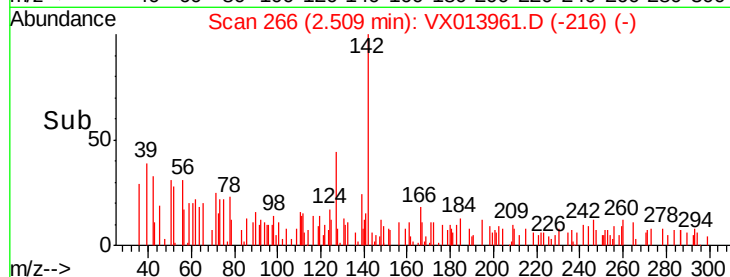
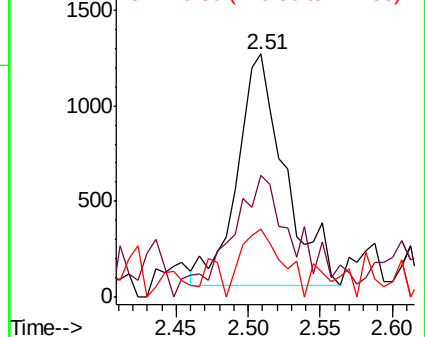
141 25.5 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 4.634 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013961.D

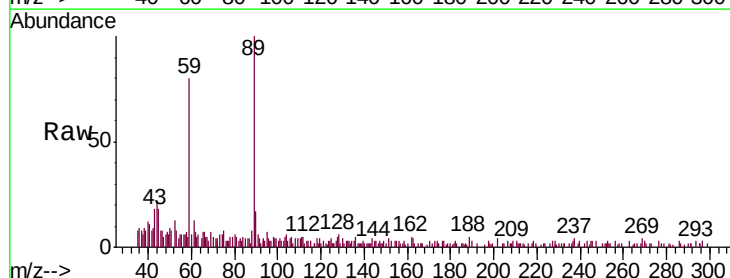
Acq: 11 Dec 2019 23:21

Tgt Ion: 59 Resp: 7361

Ion Ratio Lower Upper

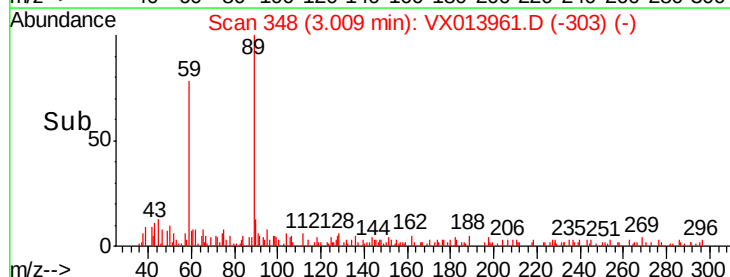
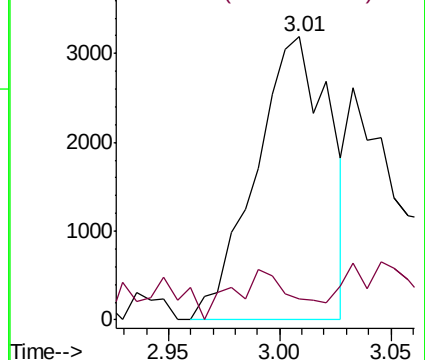
59 100

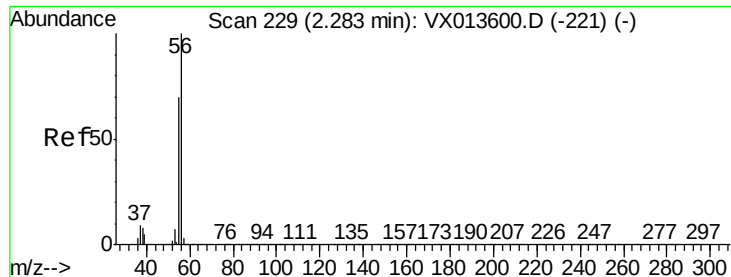
57 14.5 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 6.188 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

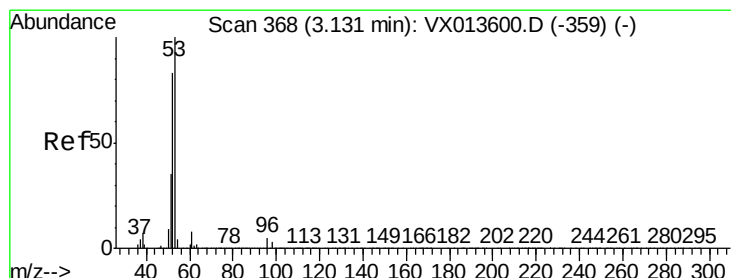
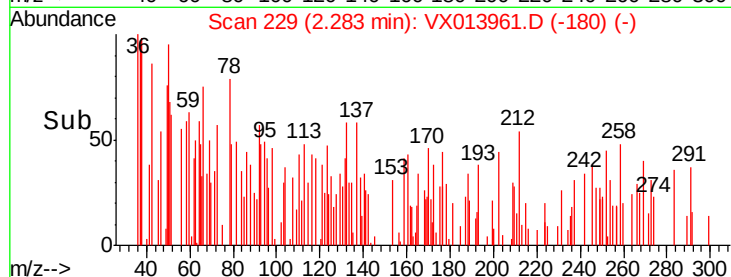
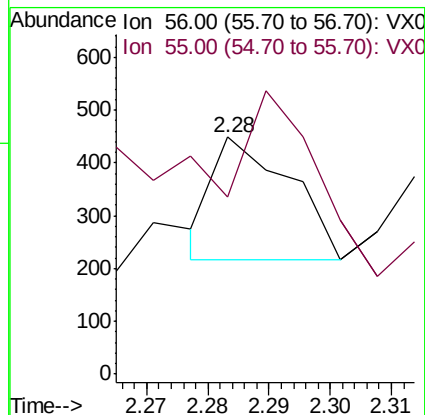
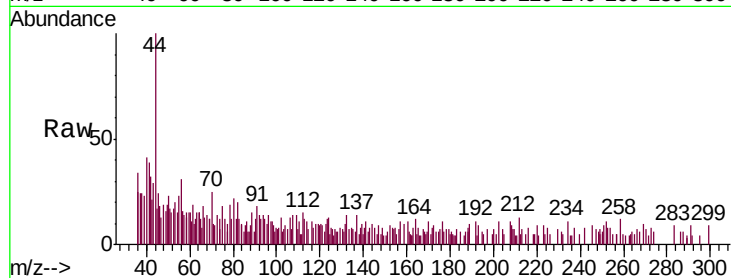
TB03-20191210

Tgt Ion: 56 Resp: 200

Ion Ratio Lower Upper

56 100

55 369.5 56.2 84.4#



#15

Acrylonitrile

Concen: 0.230 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

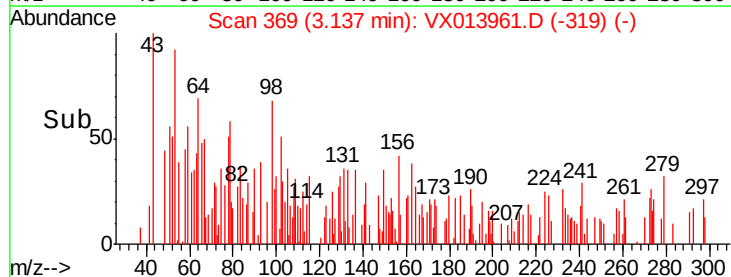
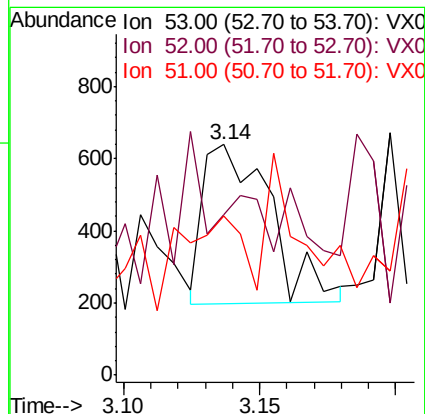
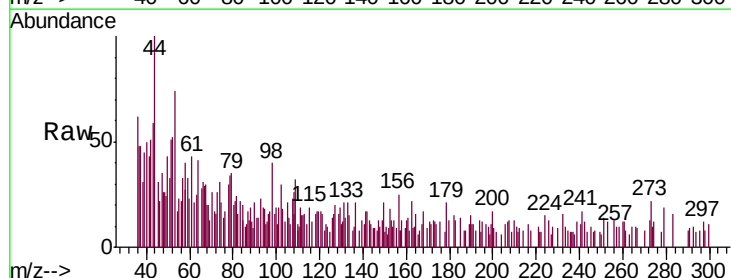
Tgt Ion: 53 Resp: 754

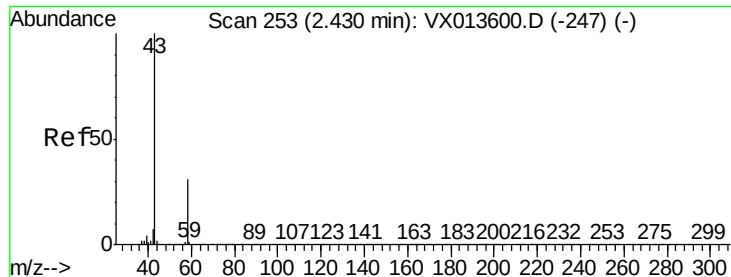
Ion Ratio Lower Upper

53 100

52 54.1 66.2 99.2#

51 89.3 29.0 43.6#





#16

Acetone

Concen: 22.101 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

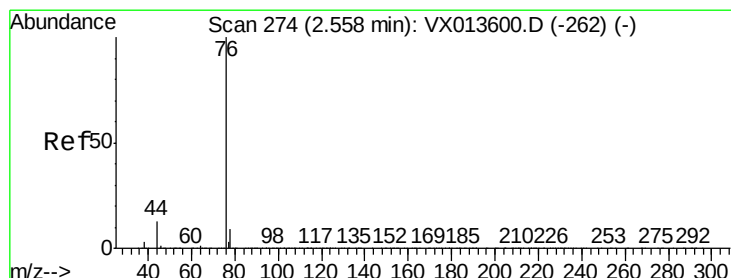
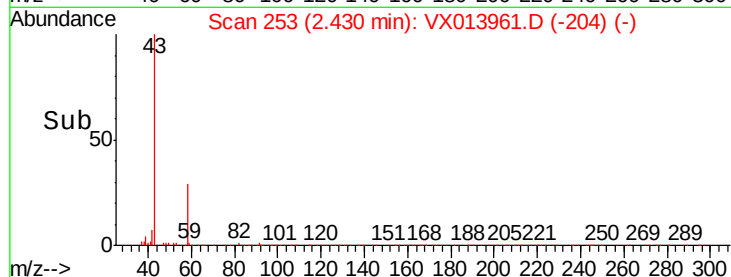
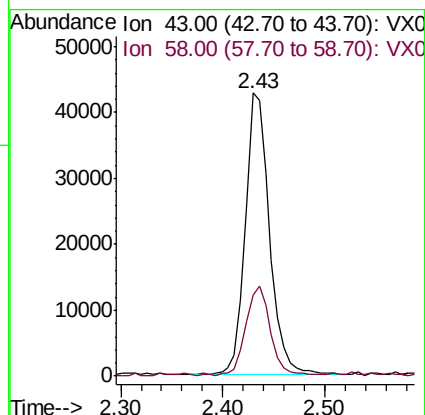
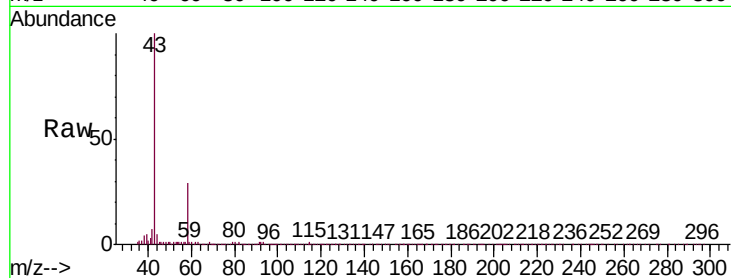
TB03-20191210

Tgt Ion: 43 Resp: 70217

Ion Ratio Lower Upper

43 100

58 28.3 24.6 36.8



#17

Carbon Disulfide

Concen: 0.259 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX013961.D

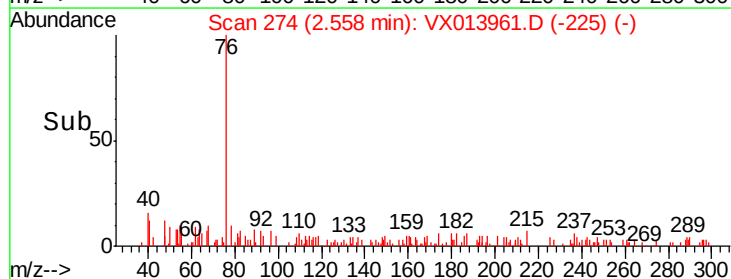
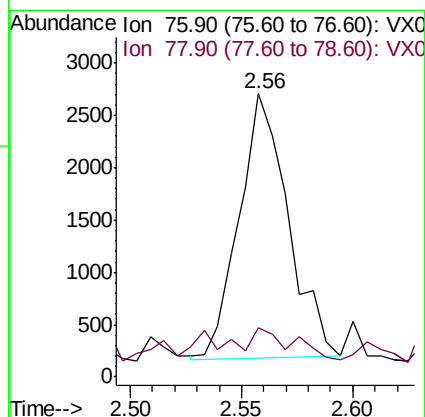
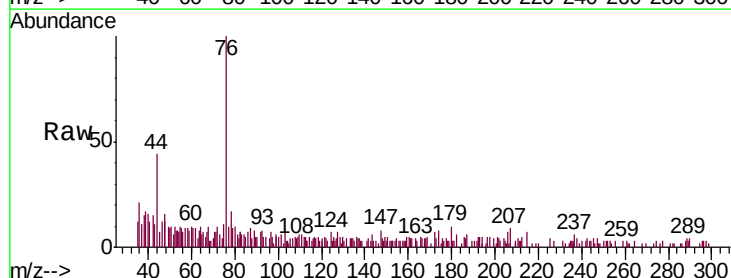
Acq: 11 Dec 2019 23:21

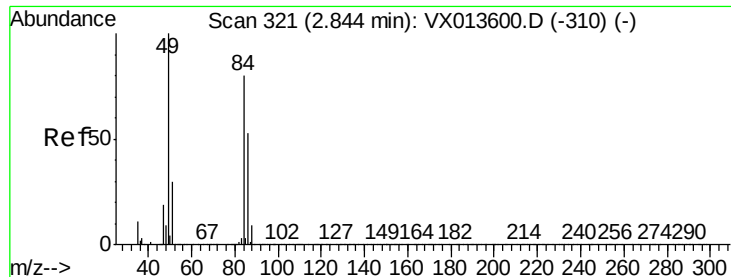
Tgt Ion: 76 Resp: 3893

Ion Ratio Lower Upper

76 100

78 12.3 7.2 10.8#

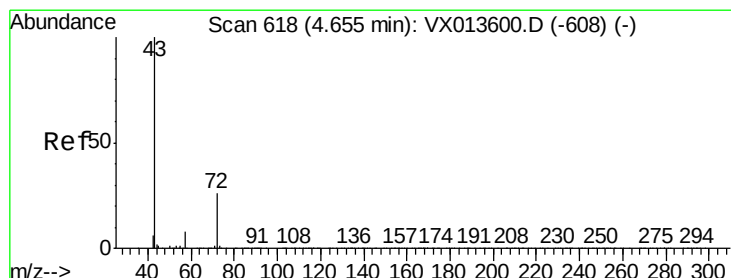
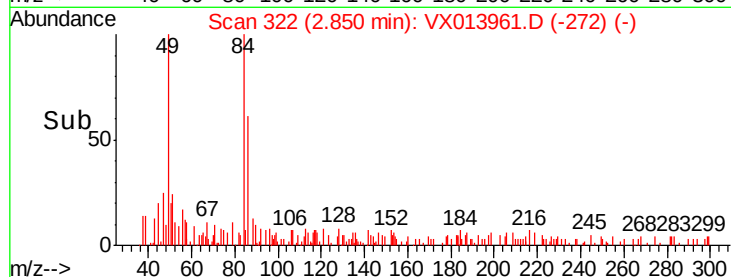
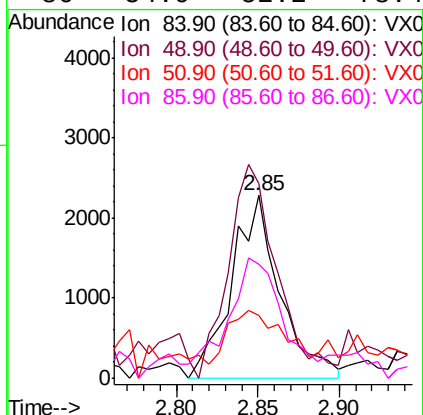
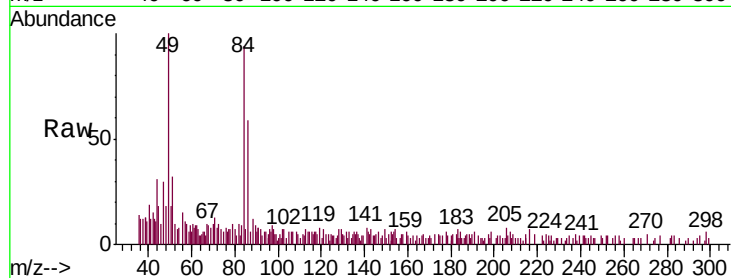




#20
Methylene Chloride
Concen: 0.766 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013961.D
Acq: 11 Dec 2019 23:21

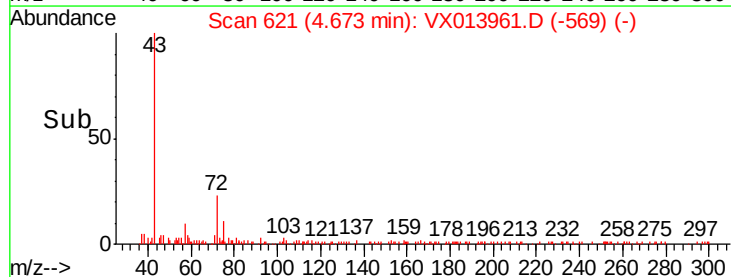
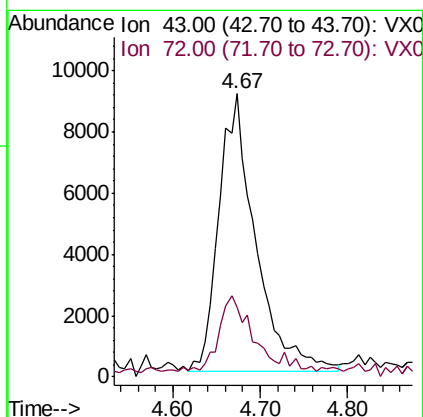
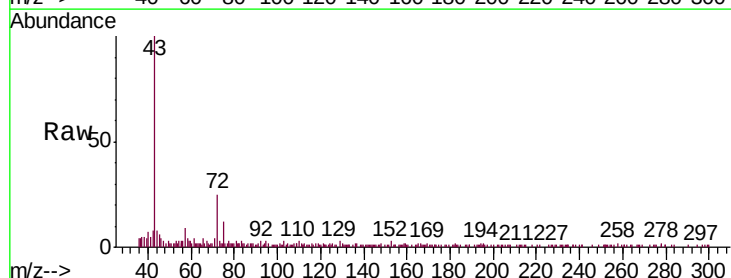
Instrument :
MSVOA_X
ClientSampleId :
TB03-20191210

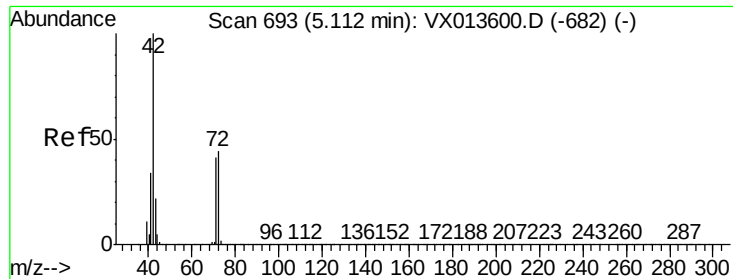
Tgt Ion:	84	Resp:	4677
Ion	Ratio	Lower	Upper
84	100		
49	95.8	99.7	149.5#
51	23.8	29.9	44.9#
86	54.9	52.2	78.4



#25
2-Butanone
Concen: 5.565 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX013961.D
Acq: 11 Dec 2019 23:21

Tgt Ion:	43	Resp:	26278
Ion	Ratio	Lower	Upper
43	100		
72	22.8	20.6	31.0





#29

Tetrahydrofuran

Concen: 1.849 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampled :

TB03-20191210

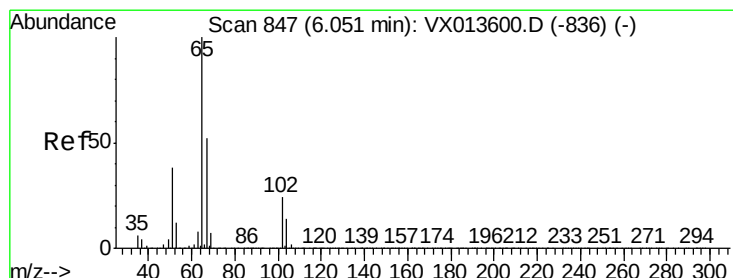
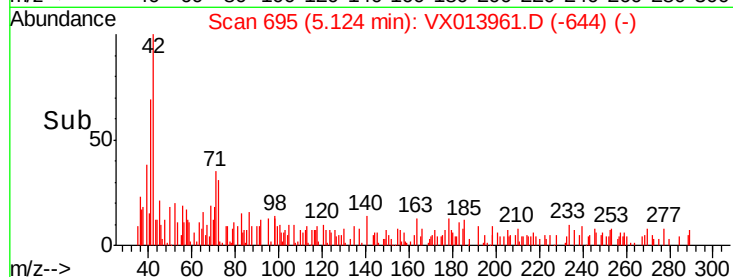
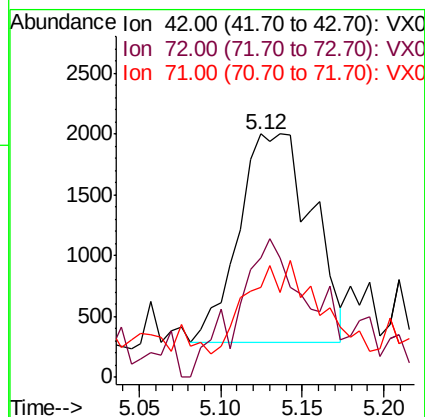
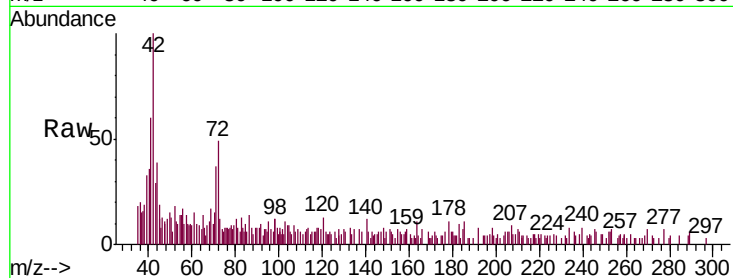
Tgt Ion: 42 Resp: 5382

Ion Ratio Lower Upper

42 100

72 67.3 36.3 54.5#

71 20.7 33.2 49.8#



#33

1,2-Dichloroethane-d4

Concen: 48.715 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013961.D

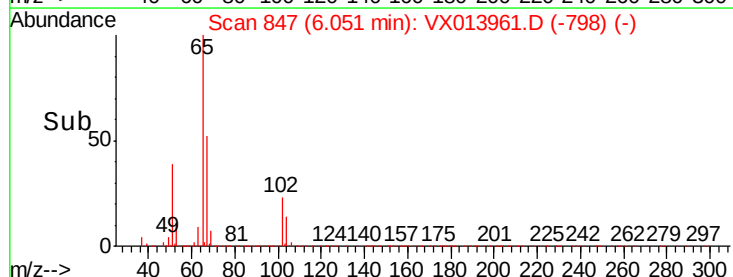
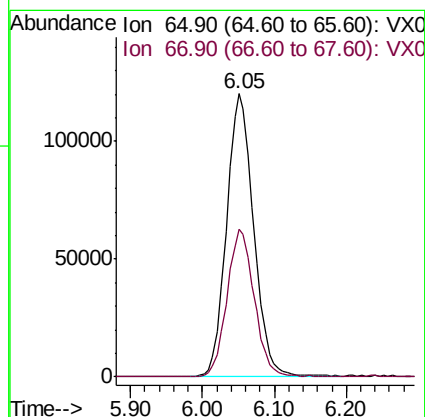
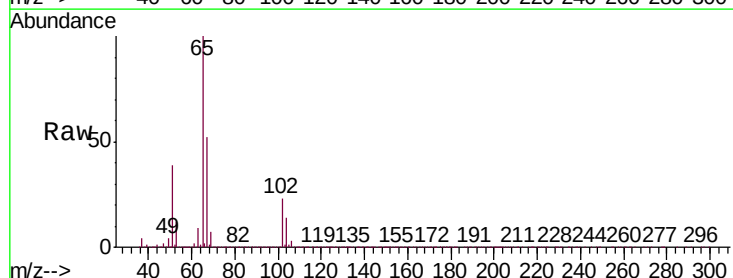
Acq: 11 Dec 2019 23:21

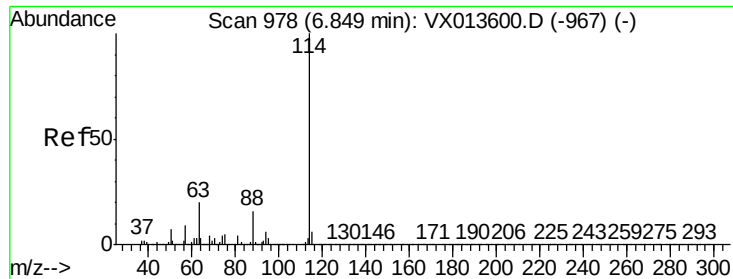
Tgt Ion: 65 Resp: 313478

Ion Ratio Lower Upper

65 100

67 51.8 0.0 104.4

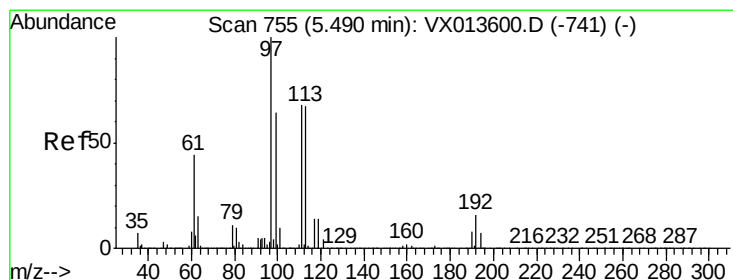
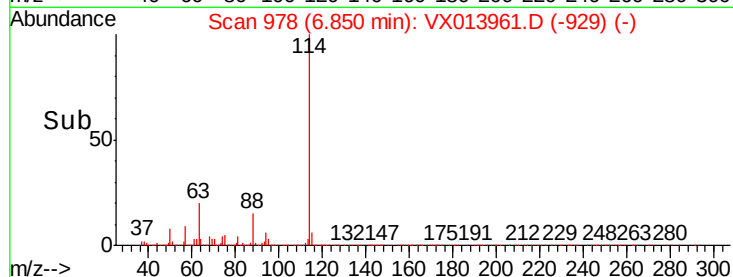
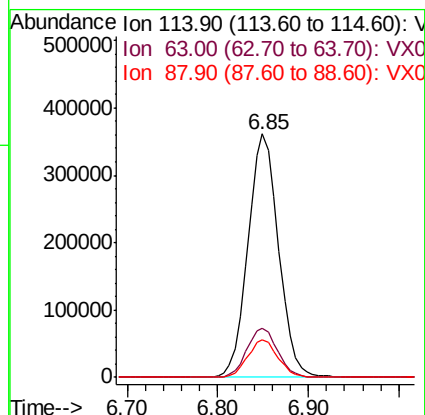
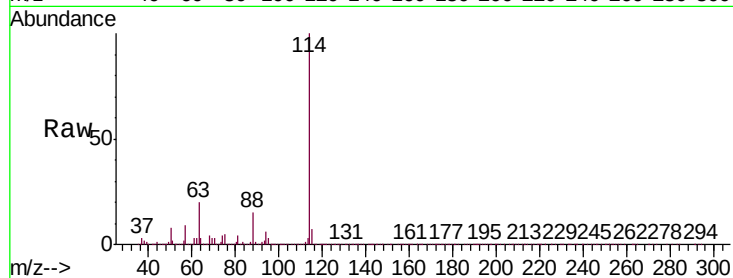




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX013961.D
Acq: 11 Dec 2019 23:21

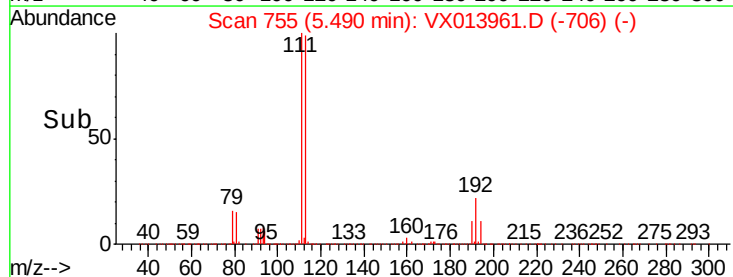
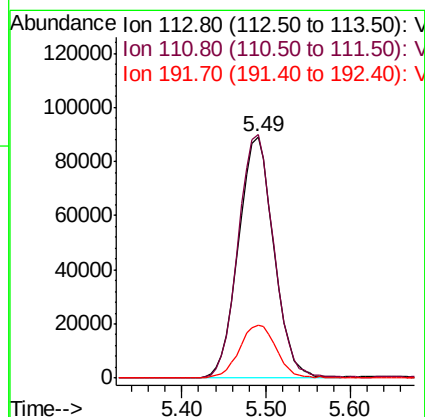
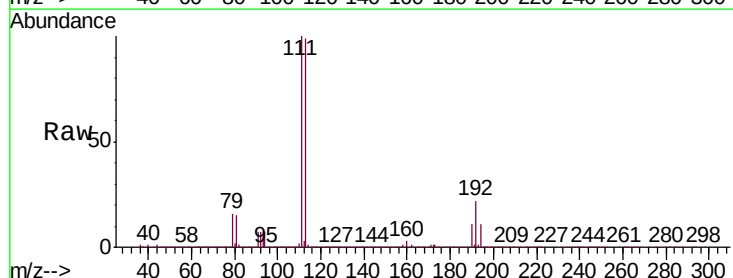
Instrument :
MSVOA_X
ClientSampleId :
TB03-20191210

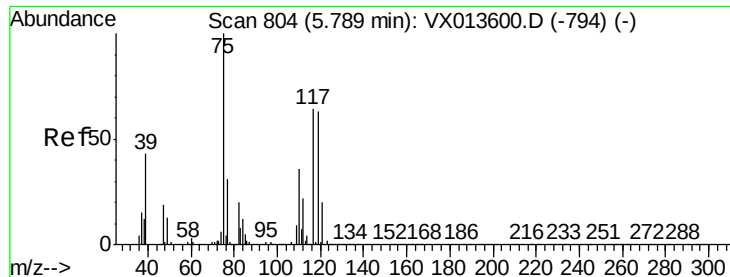
Tgt Ion:	114	Resp:	842899
Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.6
88	15.3	0.0	31.4



#35
Dibromofluoromethane
Concen: 48.489 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX013961.D
Acq: 11 Dec 2019 23:21

Tgt Ion:	113	Resp:	252672
Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.6	125.4
192	23.2	19.2	28.8

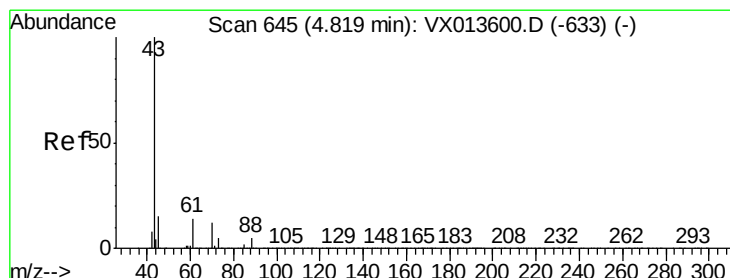
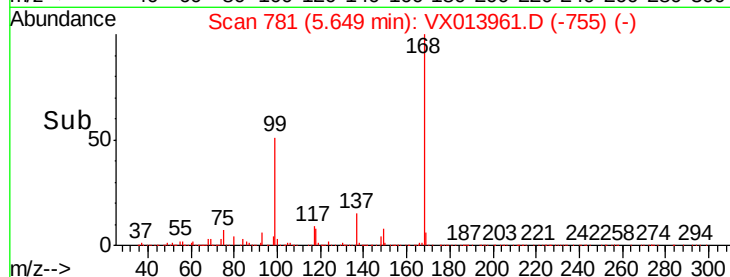
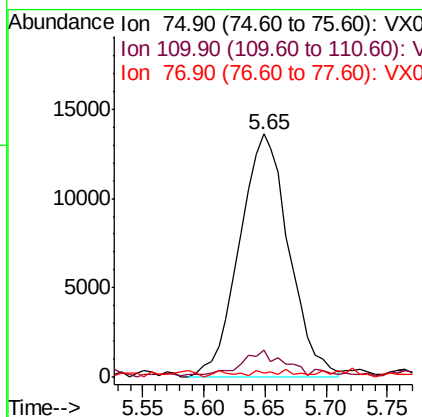
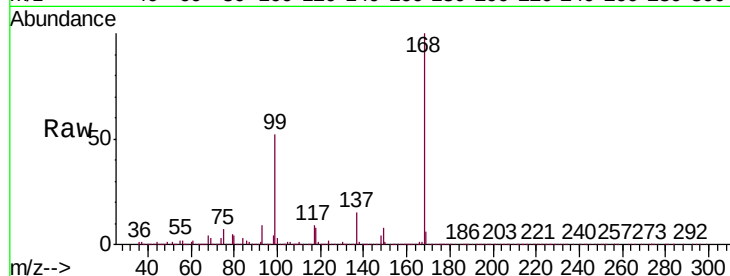




#36
 1,1-Dichloropropene
 Concen: 4.992 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013961.D
 Acq: 11 Dec 2019 23:21

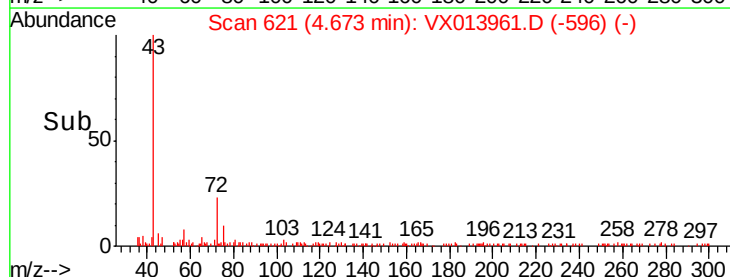
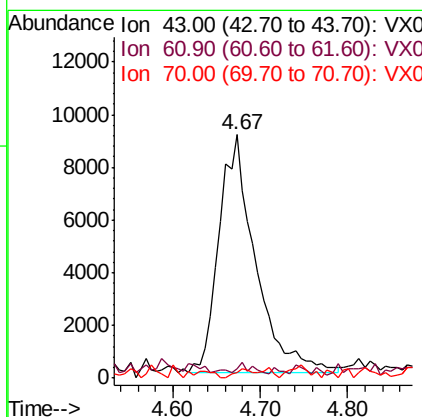
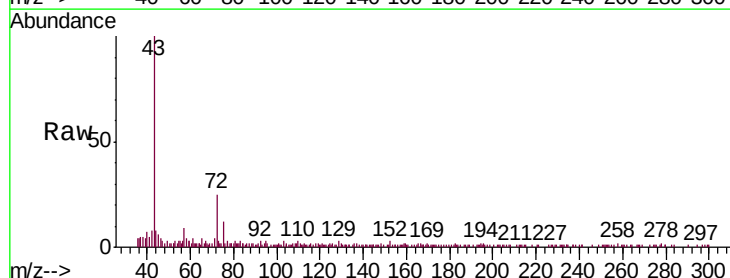
Instrument :
 MSVOA_X
 ClientSampleId :
 TB03-20191210

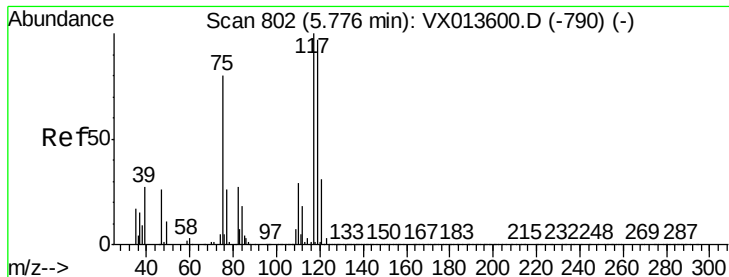
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.1#
77	0.6	24.5	36.7#



#37
 Ethyl Acetate
 Concen: 3.061 ug/l
 RT: 4.67 min Scan# 621
 Delta R.T. -0.15 min
 Lab File: VX013961.D
 Acq: 11 Dec 2019 23:21

Tgt Ion	Ratio	Lower	Upper
43	100		
61	1.8	11.0	16.4#
70	1.7	8.6	12.8#





#38

Carbon Tetrachloride

Concen: 6.881 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

TB03-20191210

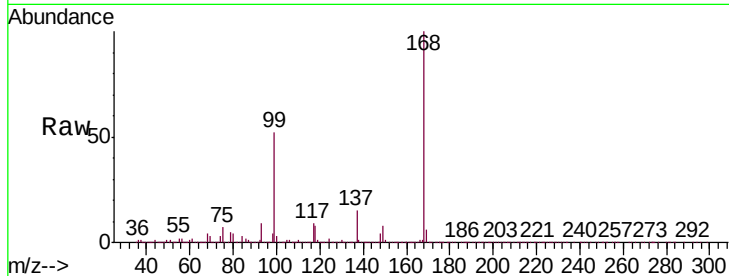
Tgt Ion:117 Resp: 48550

Ion Ratio Lower Upper

117 100

119 4.7 77.5 116.3#

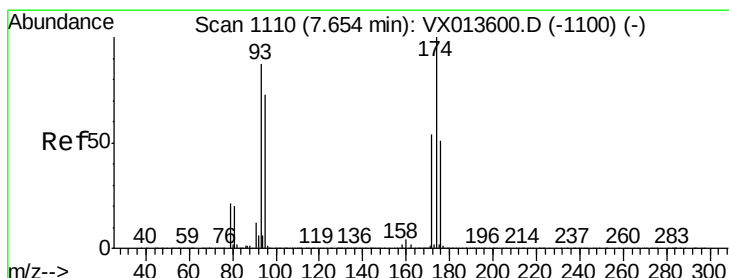
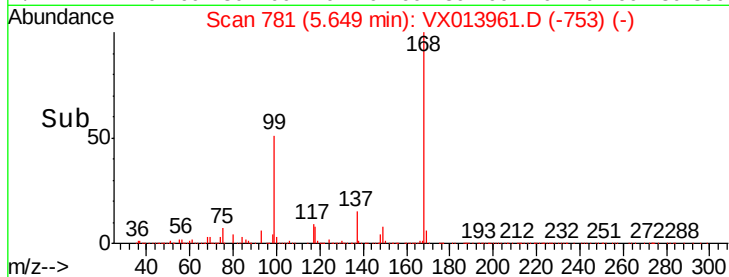
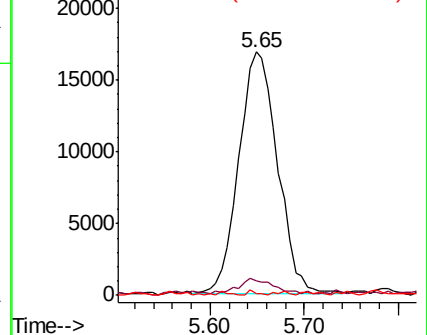
121 0.8 25.0 37.6#



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



#46

Dibromomethane

Concen: 0.200 ug/l

RT: 7.67 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

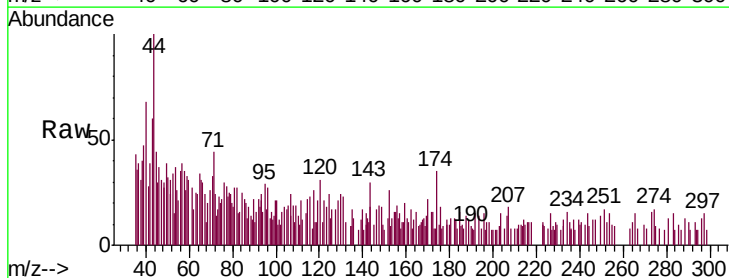
Tgt Ion: 93 Resp: 793

Ion Ratio Lower Upper

93 100

95 81.7 66.2 99.2

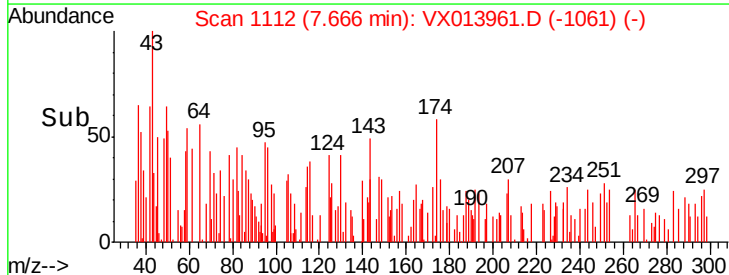
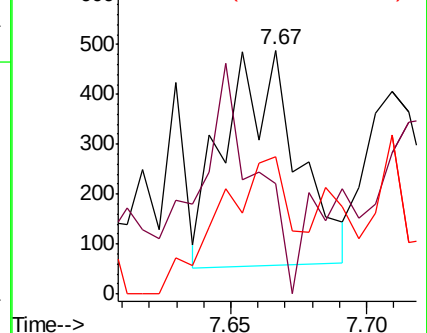
174 65.4 93.4 140.0#

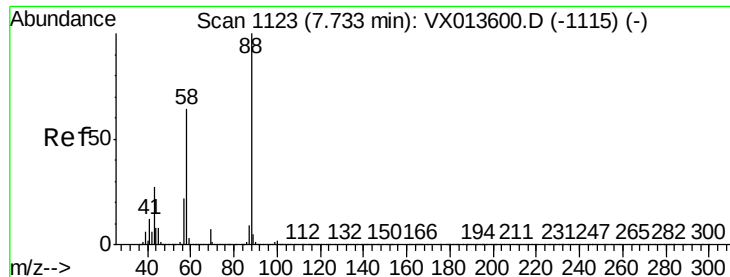


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#49

1,4-Dioxane

Concen: 4.886 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

TB03-20191210

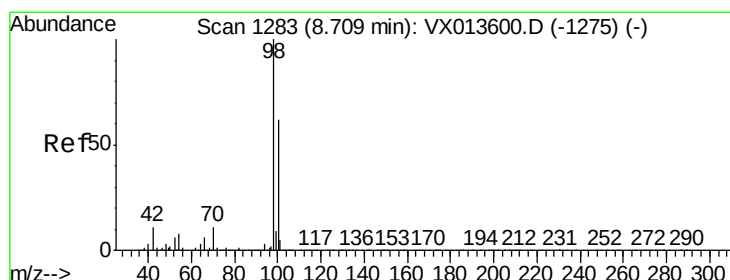
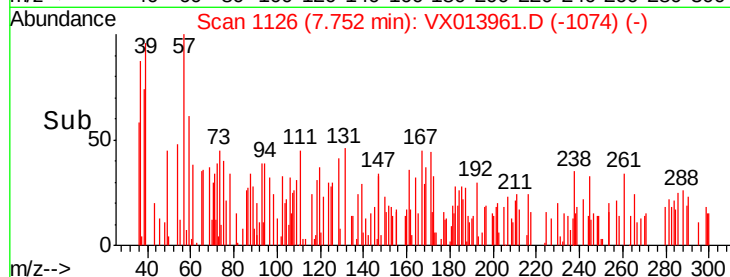
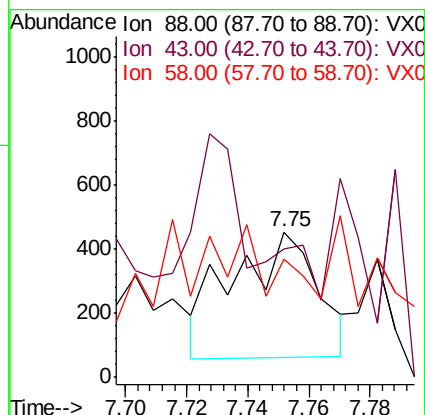
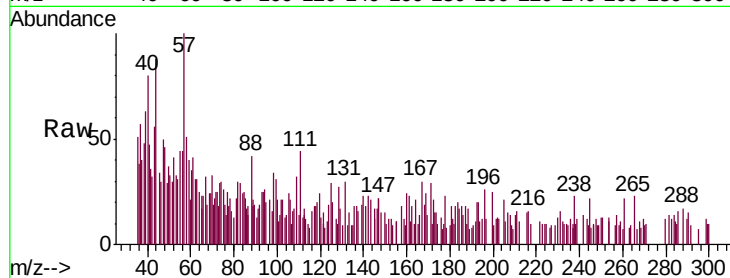
Tgt Ion: 88 Resp: 751

Ion Ratio Lower Upper

88 100

43 35.0 25.8 38.6

58 23.4 54.6 82.0#



#50

Toluene-d8

Concen: 49.469 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013961.D

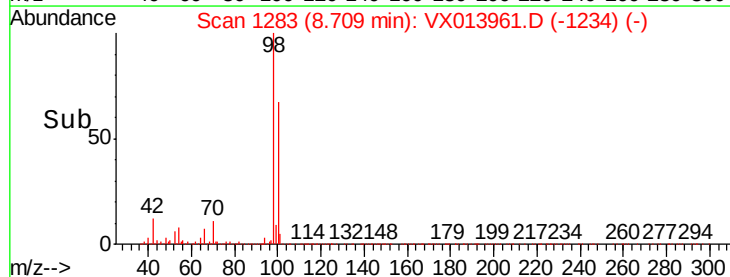
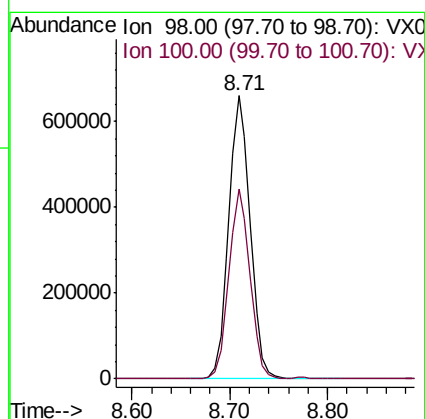
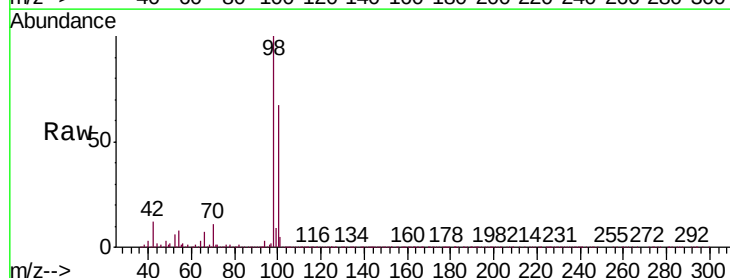
Acq: 11 Dec 2019 23:21

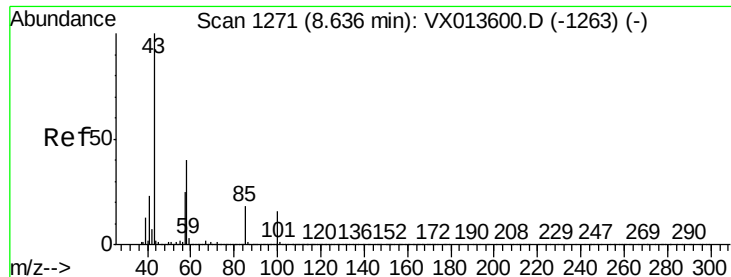
Tgt Ion: 98 Resp: 1004327

Ion Ratio Lower Upper

98 100

100 65.7 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 1.210 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

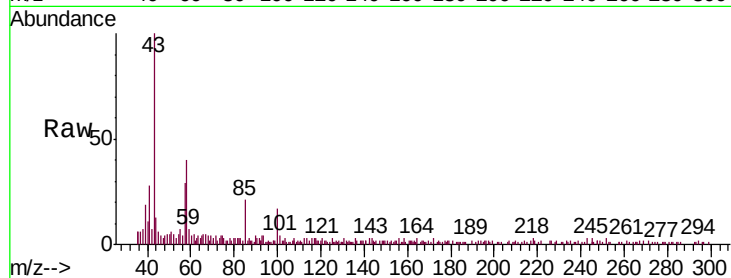
TB03-20191210

Tgt Ion: 43 Resp: 10755

Ion Ratio Lower Upper

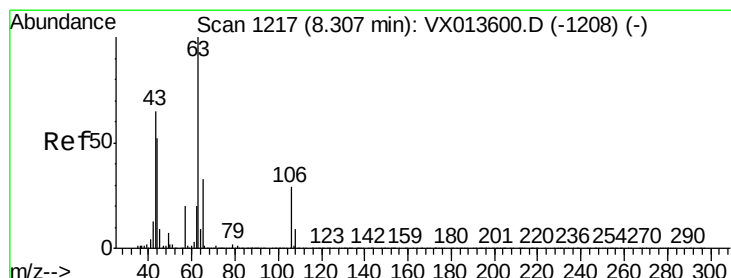
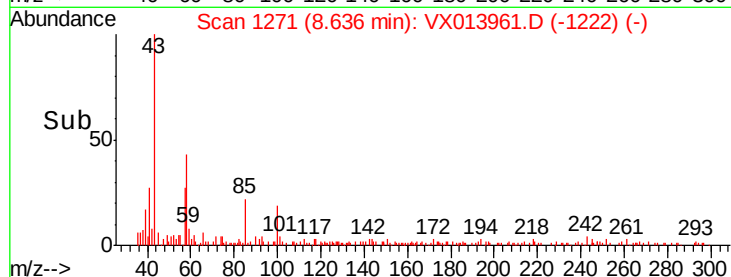
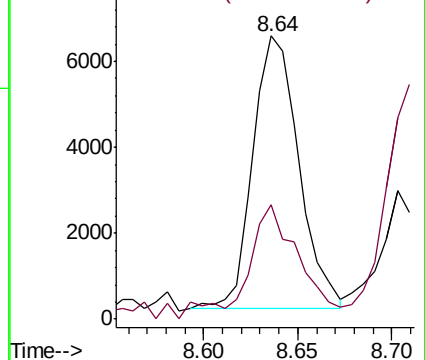
43 100

58 37.4 32.1 48.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 0.312 ug/l

RT: 8.33 min Scan# 1221

Delta R.T. 0.02 min

Lab File: VX013961.D

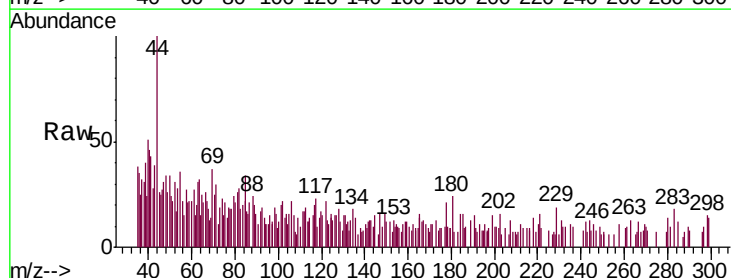
Acq: 11 Dec 2019 23:21

Tgt Ion: 63 Resp: 1149

Ion Ratio Lower Upper

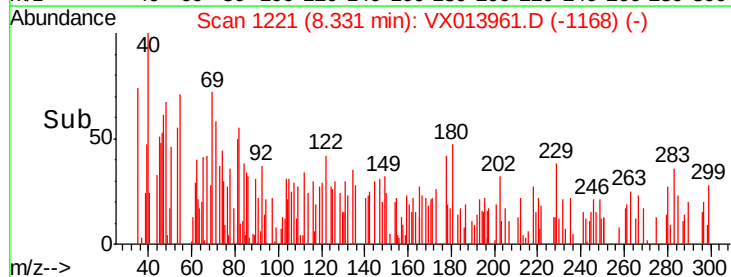
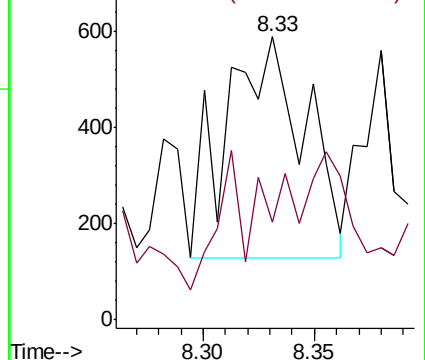
63 100

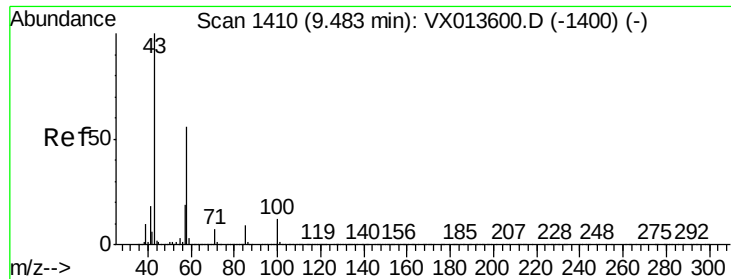
106 17.7 23.4 35.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

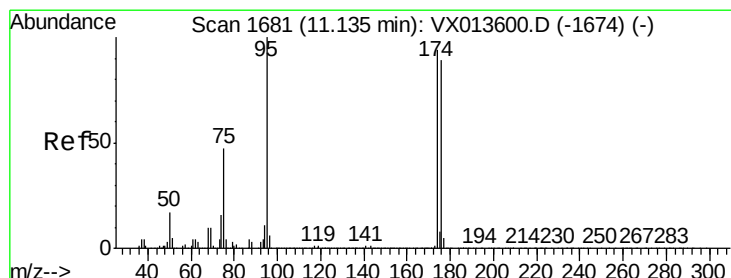
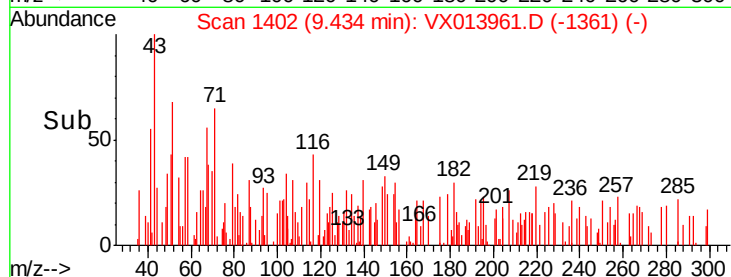
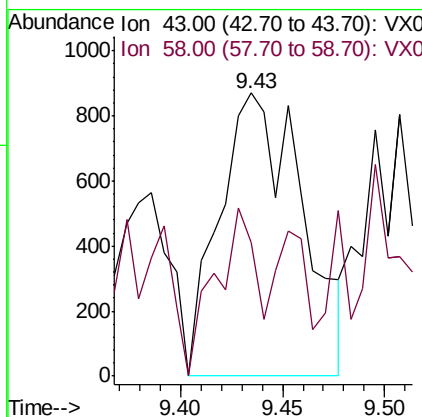
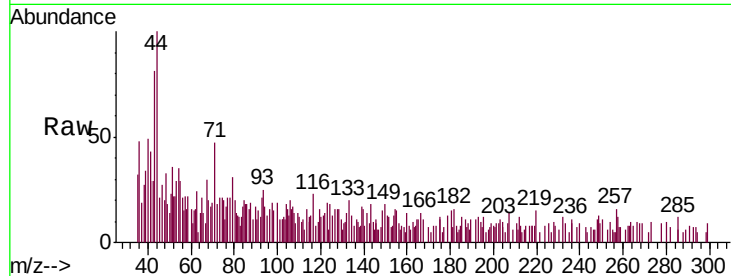




#59
2-Hexanone
Concen: 0.352 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX013961.D
Acq: 11 Dec 2019 23:21

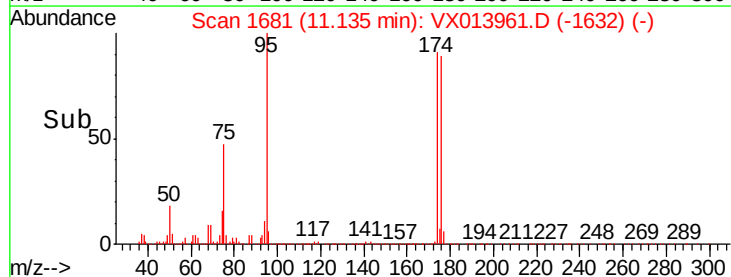
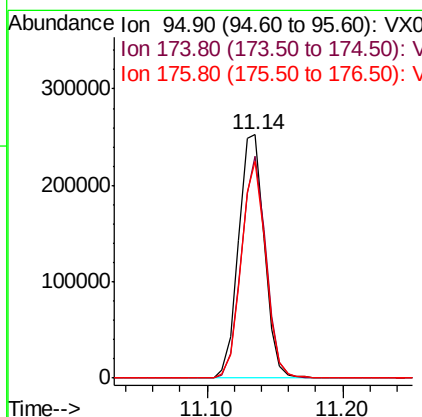
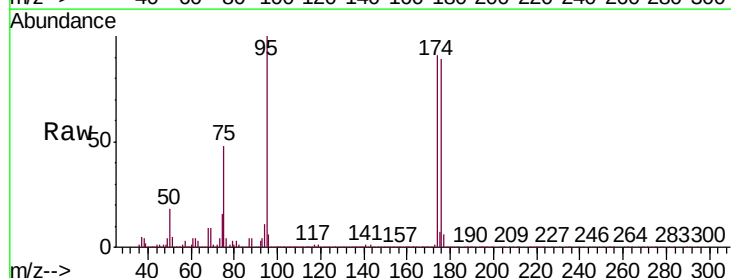
Instrument :
MSVOA_X
ClientSampleID :
TB03-20191210

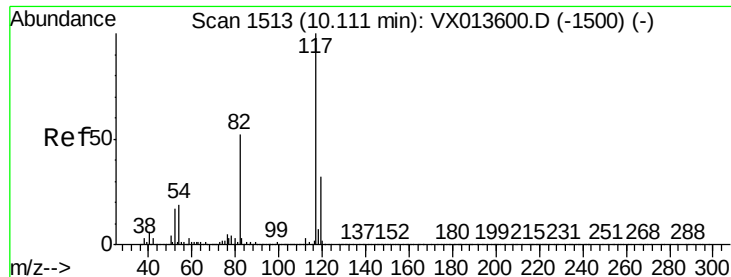
Tgt Ion: 43 Resp: 2439
Ion Ratio Lower Upper
43 100
58 29.2 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 45.613 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013961.D
Acq: 11 Dec 2019 23:21

Tgt Ion: 95 Resp: 333936
Ion Ratio Lower Upper
95 100
174 86.9 0.0 180.0
176 85.0 0.0 173.6

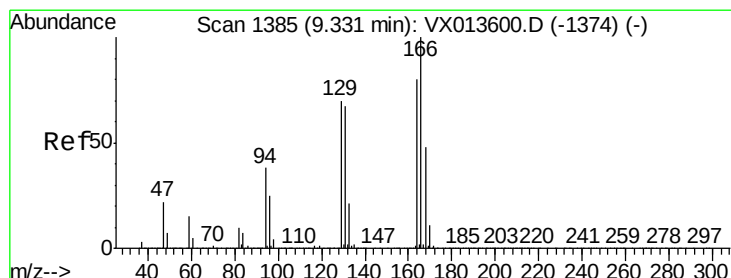
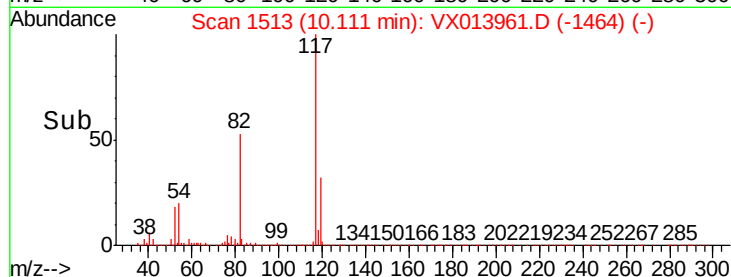
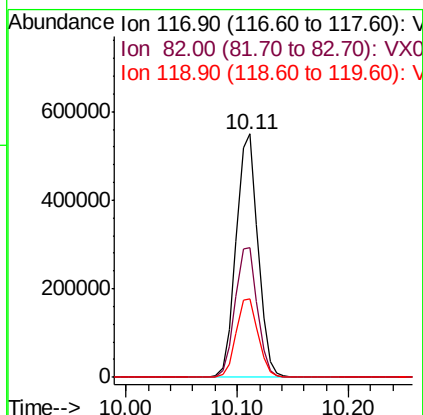
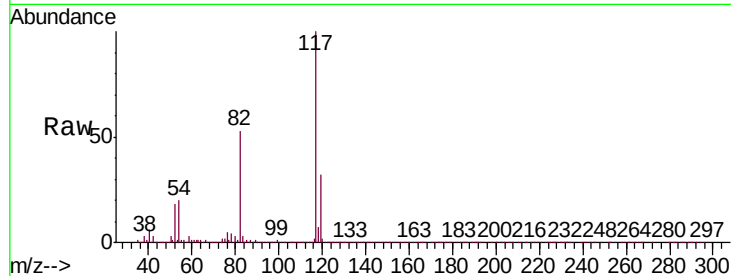




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013961.D
Acq: 11 Dec 2019 23:21

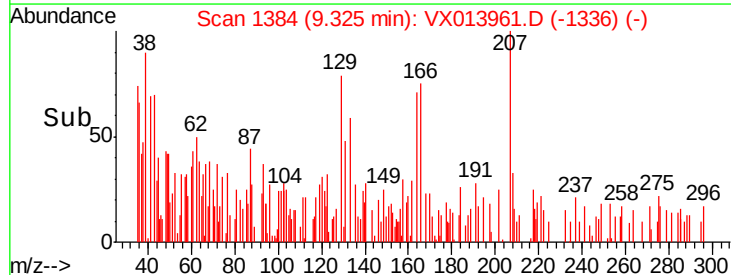
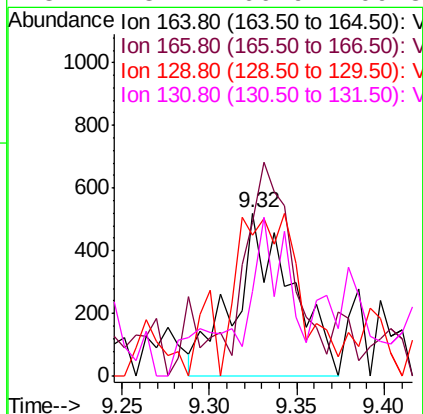
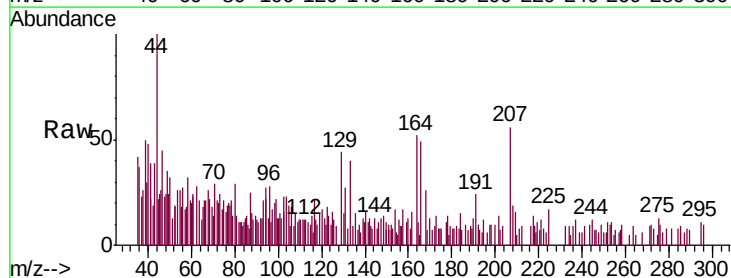
Instrument :
MSVOA_X
ClientSampleId :
TB03-20191210

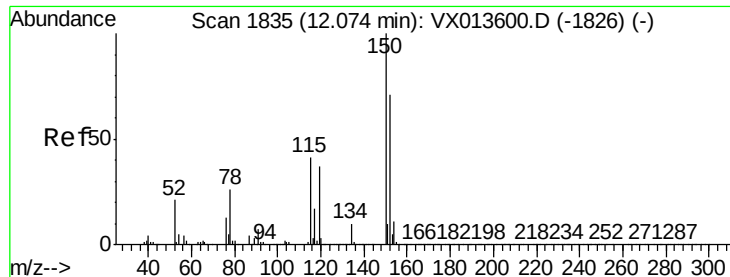
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.1	41.8	62.8
119	32.4	25.8	38.8



#64
Tetrachloroethene
Concen: 0.212 ug/l
RT: 9.32 min Scan# 1384
Delta R.T. -0.01 min
Lab File: VX013961.D
Acq: 11 Dec 2019 23:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	45.2	99.7	149.5#
129	70.6	70.1	105.1
131	23.1	66.9	100.3#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

TB03-20191210

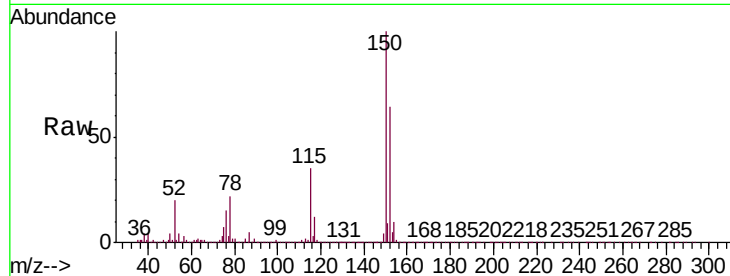
Tgt Ion: 152 Resp: 324455

Ion Ratio Lower Upper

152 100

115 55.8 38.4 115.1

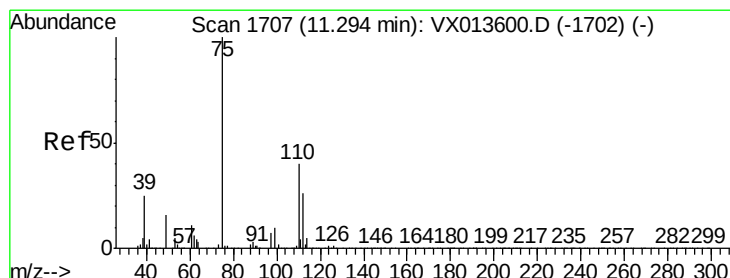
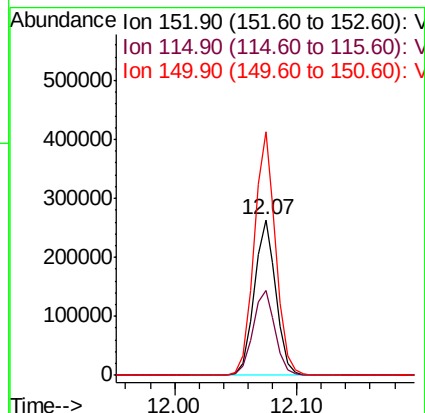
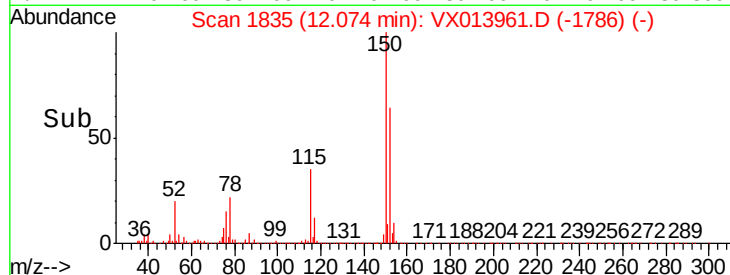
150 155.1 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.995 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013961.D

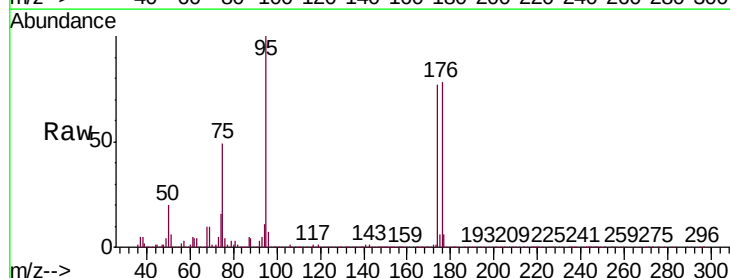
Acq: 11 Dec 2019 23:21

Tgt Ion: 75 Resp: 160512

Ion Ratio Lower Upper

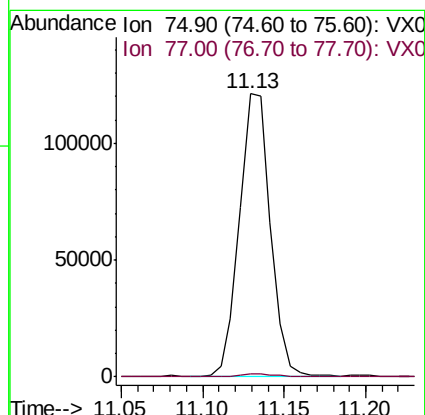
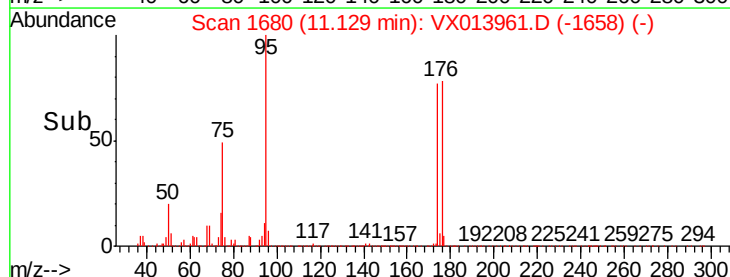
75 100

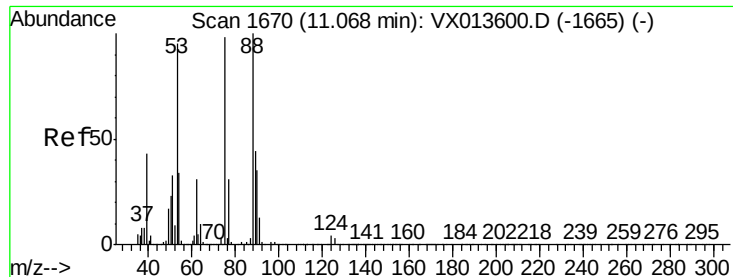
77 1.6 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.175 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Instrument :

MSVOA_X

ClientSampleId :

TB03-20191210

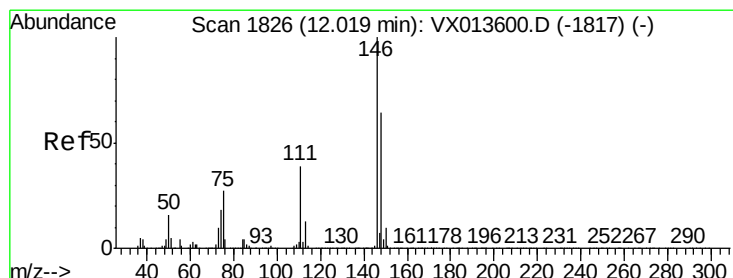
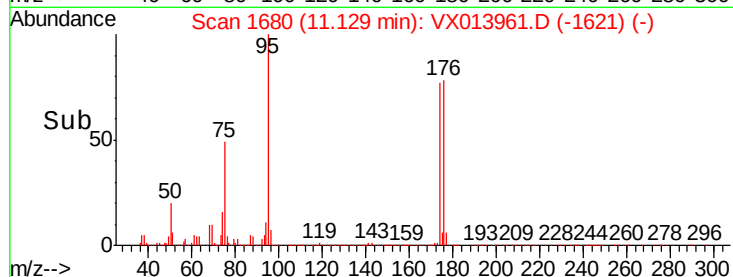
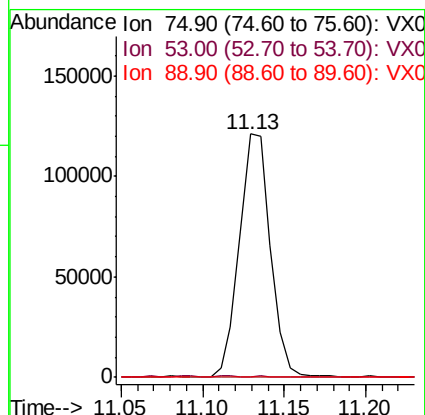
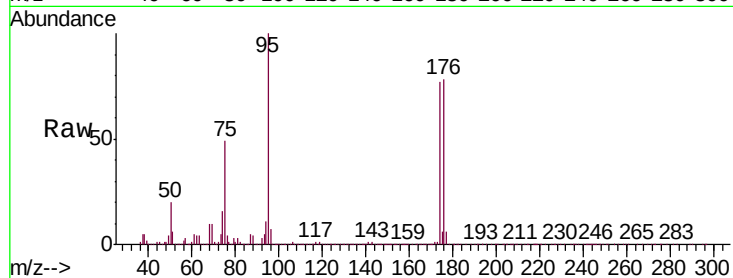
Tgt Ion: 75 Resp: 160512

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.2#

89 0.2 35.4 53.2#



#87

1,3-Dichlorobenzene

Concen: 0.222 ug/l

RT: 12.02 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

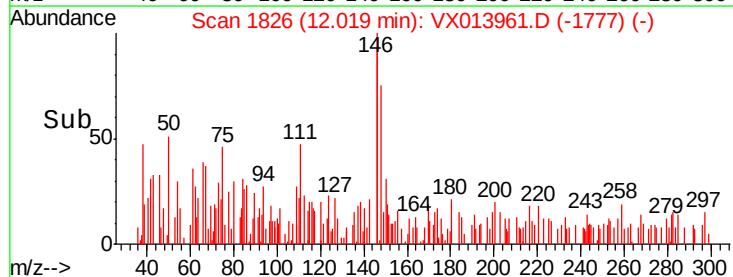
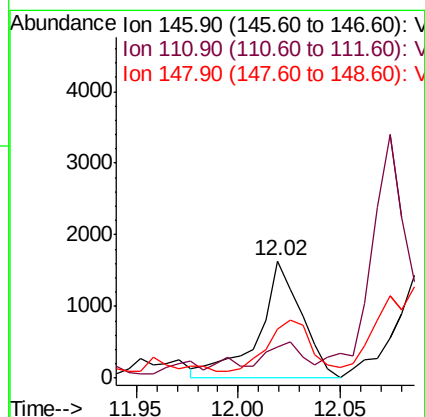
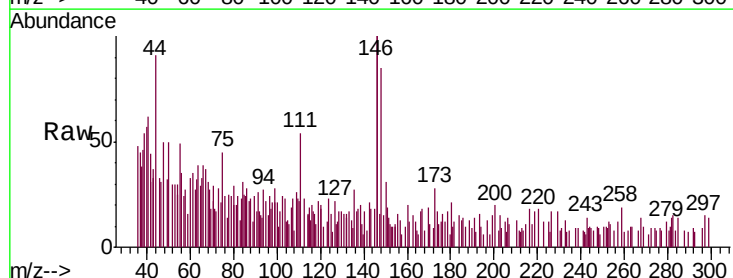
Tgt Ion: 146 Resp: 2382

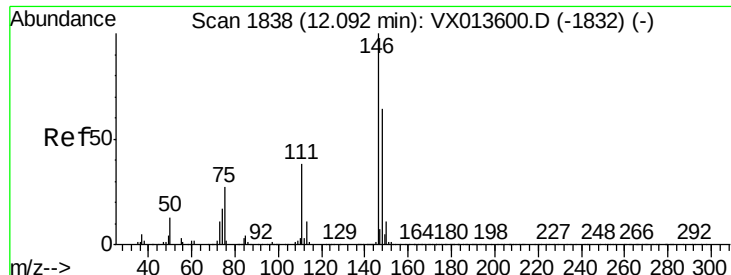
Ion Ratio Lower Upper

146 100

111 22.6 19.0 57.0

148 53.5 31.8 95.4





#88

1,4-Dichlorobenzene

Concen: 0.218 ug/l

RT: 12.02 min Scan# 1826

Delta R.T. -0.07 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

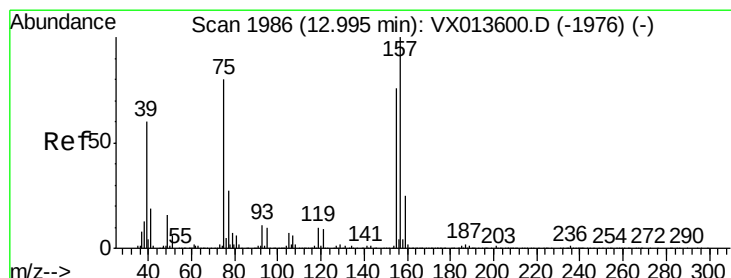
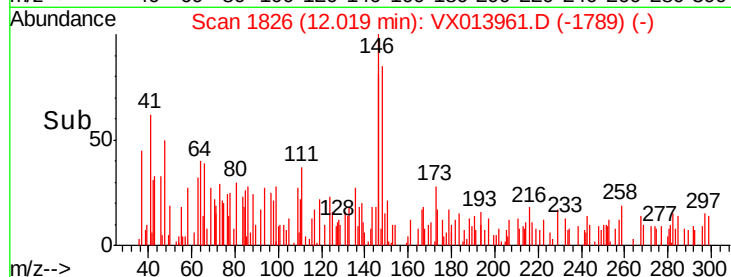
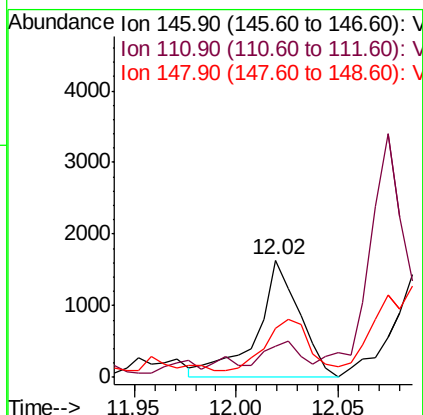
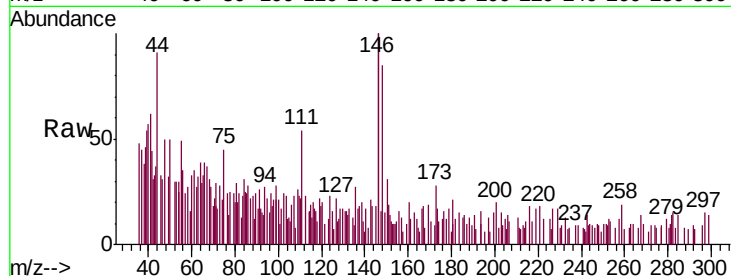
Instrument :

MSVOA_X

ClientSampleId :

TB03-20191210

Tgt Ion:	146	Resp:	2382
Ion	Ratio	Lower	Upper
146	100		
111	22.0	18.9	56.9
148	51.1	31.9	95.5



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.276 ug/l

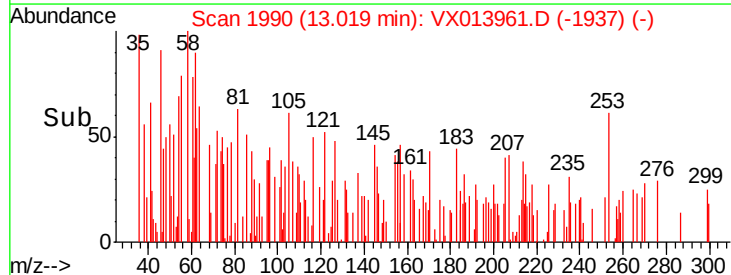
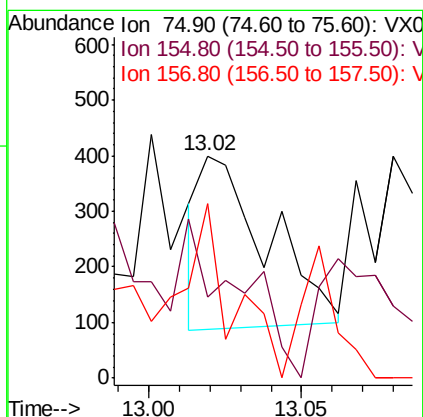
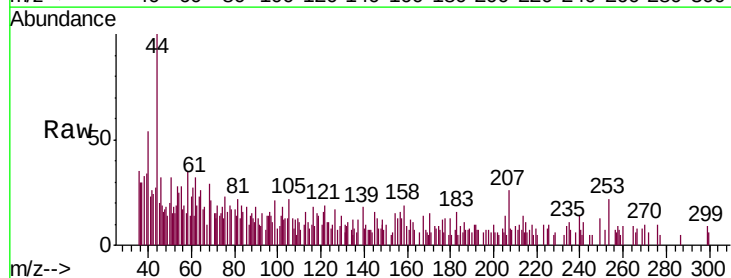
RT: 13.02 min Scan# 1990

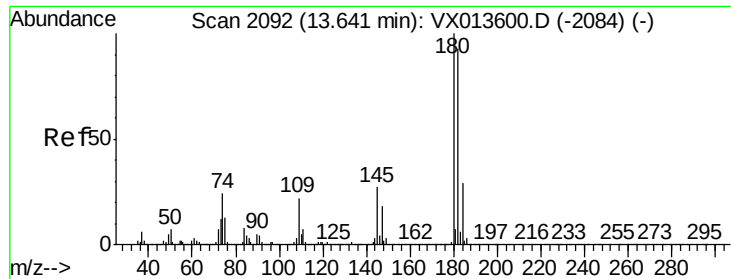
Delta R.T. 0.02 min

Lab File: VX013961.D

Acq: 11 Dec 2019 23:21

Tgt Ion:	75	Resp:	474
Ion	Ratio	Lower	Upper
75	100		
155	77.8	47.6	142.8
157	74.3	62.1	186.2

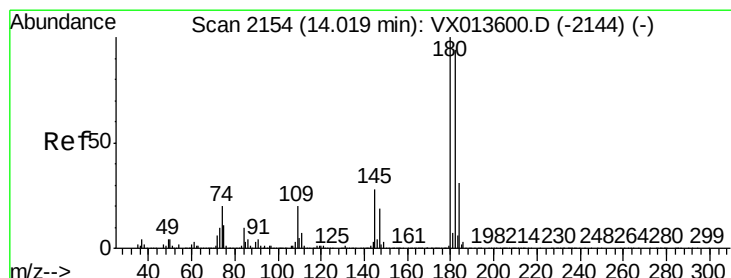
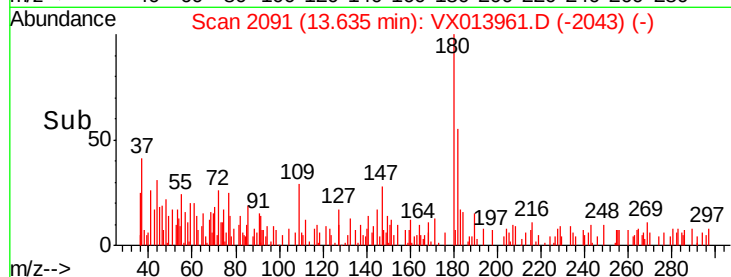
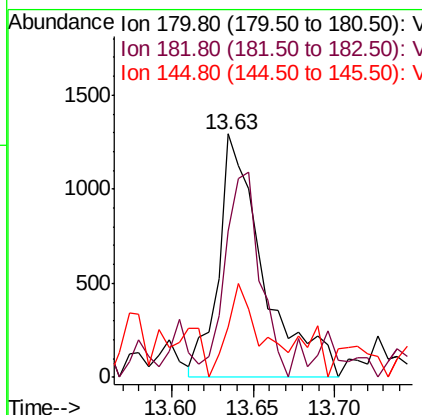
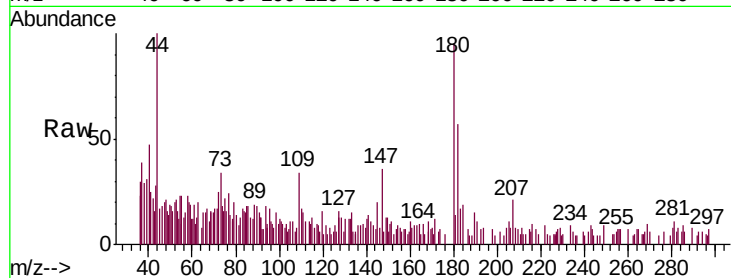




#93
 1,2,4-Trichlorobenzene
 Concen: 0.336 ug/l
 RT: 13.63 min Scan# 2091
 Delta R.T. -0.01 min
 Lab File: VX013961.D
 Acq: 11 Dec 2019 23:21

Instrument :
 MSVOA_X
 ClientSampleId :
 TB03-20191210

Tgt Ion:180 Resp: 2483
 Ion Ratio Lower Upper
 180 100
 182 65.1 47.2 141.6
 145 28.7 13.8 41.4



#96
 1,2,3-Trichlorobenzene
 Concen: 0.311 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VX013961.D
 Acq: 11 Dec 2019 23:21

Tgt Ion:180 Resp: 2276
 Ion Ratio Lower Upper
 180 100
 182 72.1 47.6 142.8
 145 46.6 15.0 45.0#

