

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061119\
 Data File : VX010233.D
 Acq On : 11 Jun 2019 15:28
 Operator : JC/SP
 Sample : K3257-08DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20190606DL

Quant Time: Jun 12 07:49:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	240275	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	359696	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	325069	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	152551	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	107254	45.73	ug/l	0.00
Spiked Amount			Recovery	=	91.46%	
35) Dibromofluoromethane	5.50	113	109590	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	8.71	98	420018	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	11.13	95	141859	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	

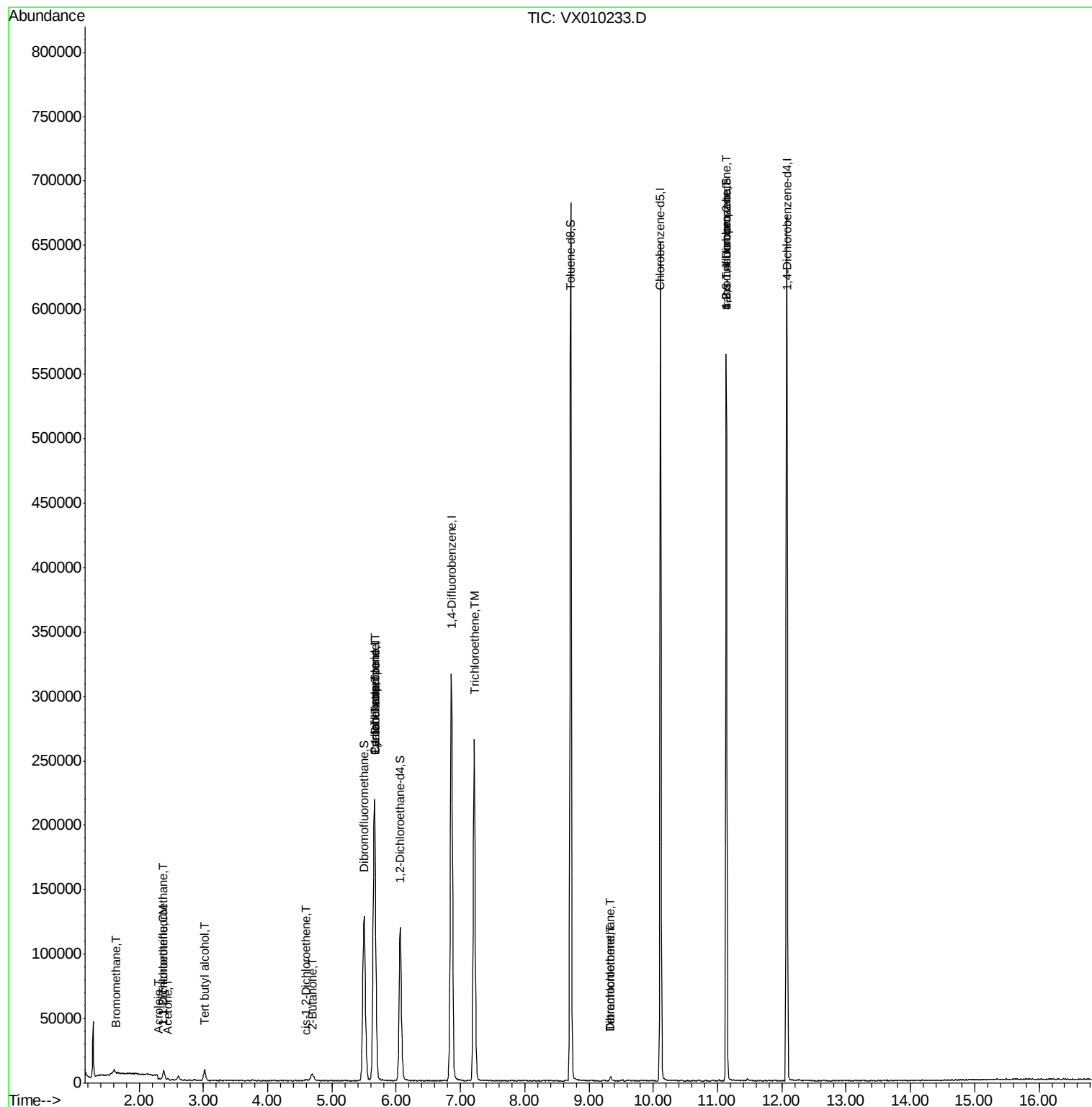
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	244	0.313	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2258	1.069	ug/l	93
11) Tert butyl alcohol	3.02	59	4166	7.251	ug/l #	79
12) 1,1-Dichloroethene	2.37	96	580	0.269	ug/l #	57
13) Acrolein	2.31	56	74	0.706	ug/l #	55
16) Acetone	2.45	43	1008	0.914	ug/l #	85
25) 2-Butanone	4.68	43	507	0.309	ug/l #	76
27) cis-1,2-Dichloroethene	4.60	96	560	0.211	ug/l	93
31) Cyclohexane	5.67	56	4093	1.199	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14054	4.789	ug/l #	52
38) Carbon Tetrachloride	5.66	117	20187	6.078	ug/l #	16
44) Trichloroethene	7.21	130	111273	40.681	ug/l	85
60) Dibromochloromethane	9.34	129	663	0.229	ug/l #	11
64) Tetrachloroethene	9.34	164	858	0.355	ug/l #	71
76) 1,2,3-Trichloropropane	11.13	75	63826	20.918	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63826	46.216	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

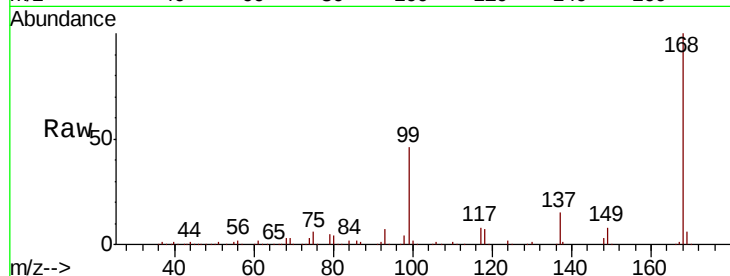
RE120D3-20190606DL

Tot Ion:168 Resp: 240275

Ion Ratio Lower Upper

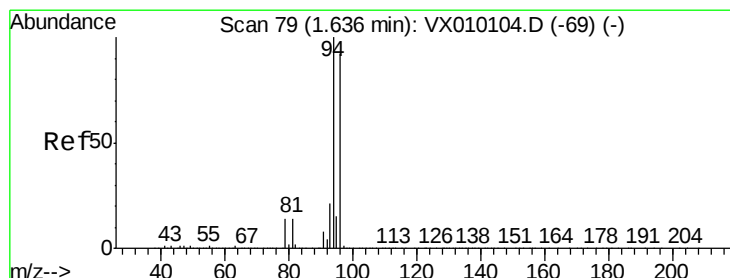
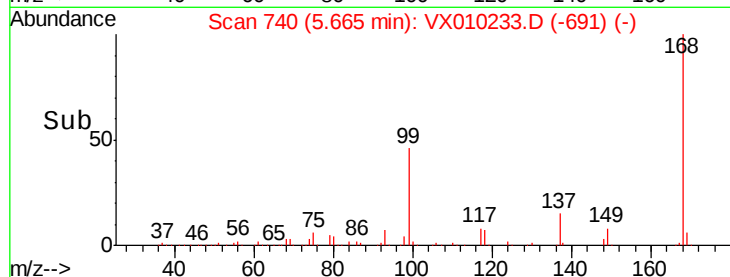
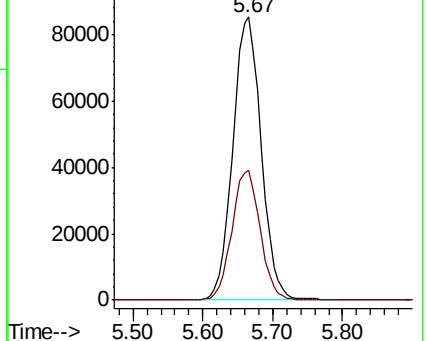
168 100

99 45.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.313 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX010233.D

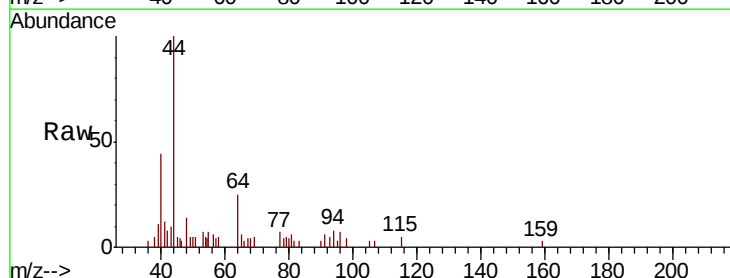
Acq: 11 Jun 2019 15:28

Tgt Ion: 94 Resp: 244

Ion Ratio Lower Upper

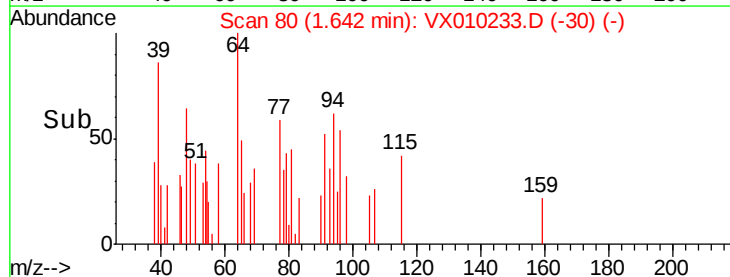
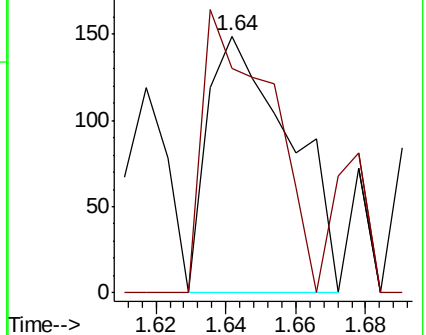
94 100

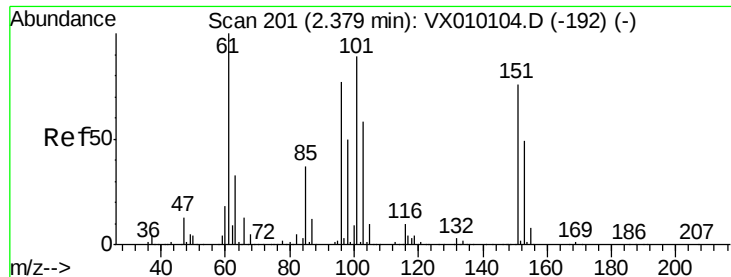
96 87.2 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.069 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606DL

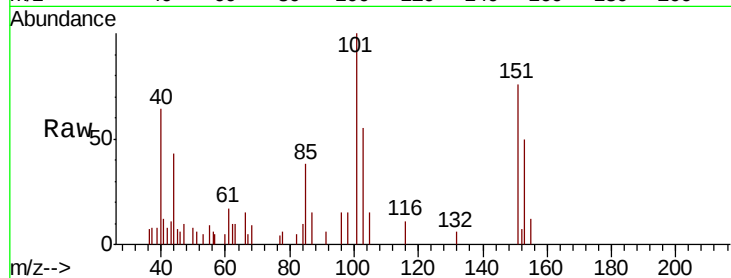
Tot Ion:101 Resp: 2258

Ion Ratio Lower Upper

101 100

85 42.8 35.2 52.8

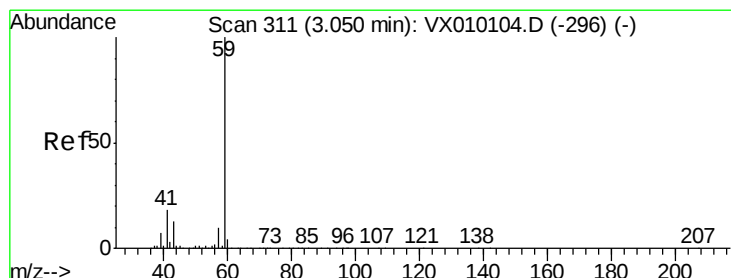
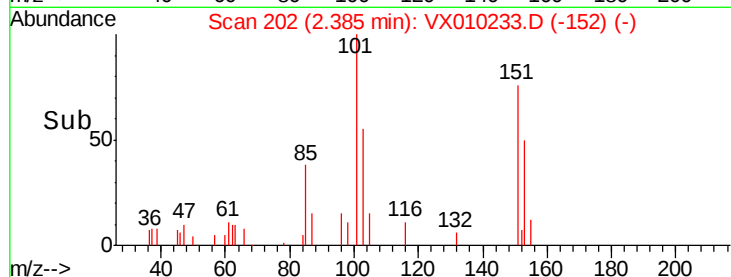
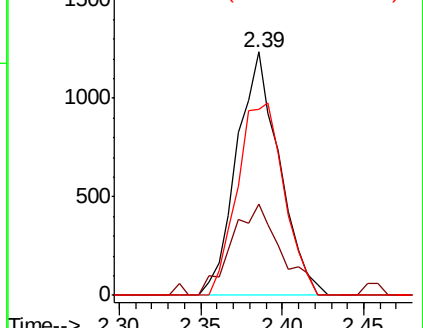
151 86.2 61.9 92.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 7.251 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010233.D

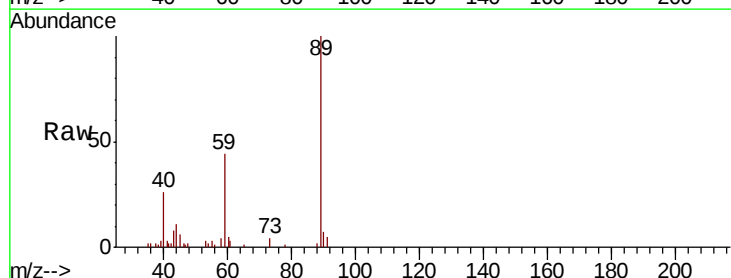
Acq: 11 Jun 2019 15:28

Tgt Ion: 59 Resp: 4166

Ion Ratio Lower Upper

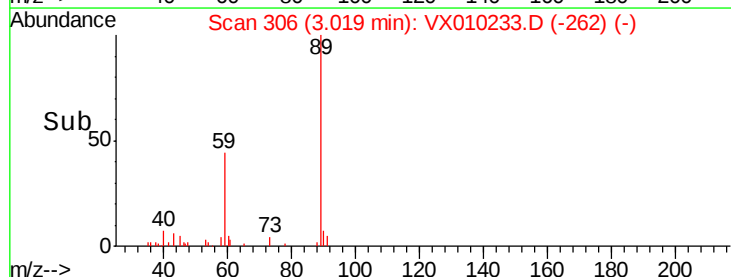
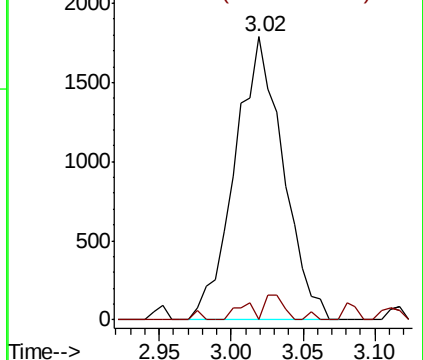
59 100

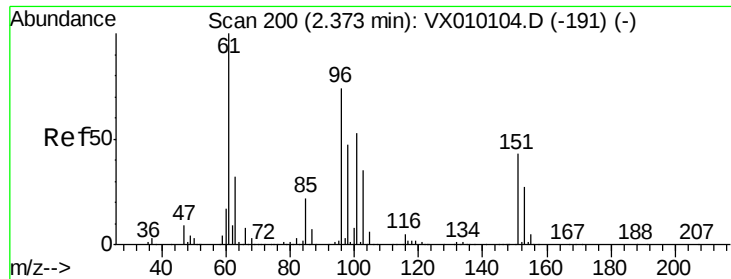
57 2.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

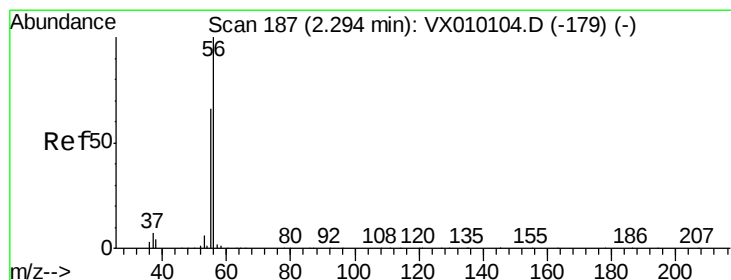
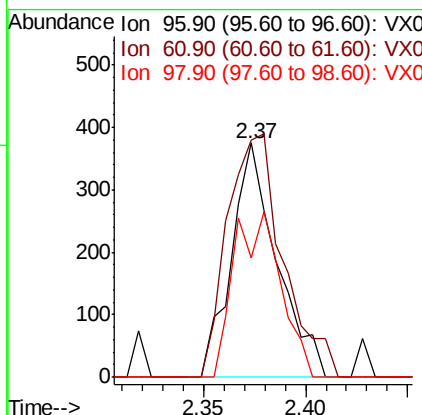
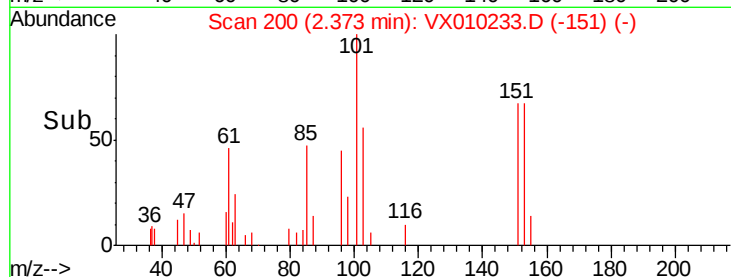
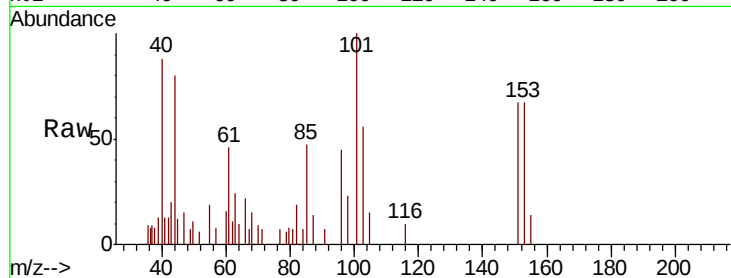




#12
 1,1-Dichloroethene
 Concen: 0.269 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX010233.D
 Acq: 11 Jun 2019 15:28

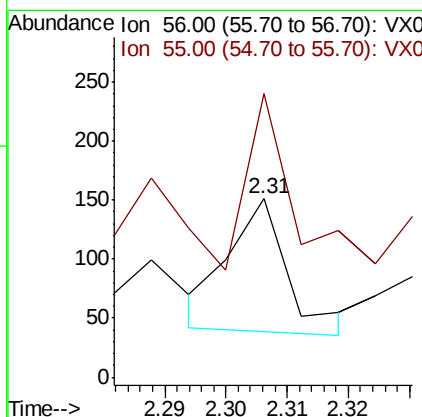
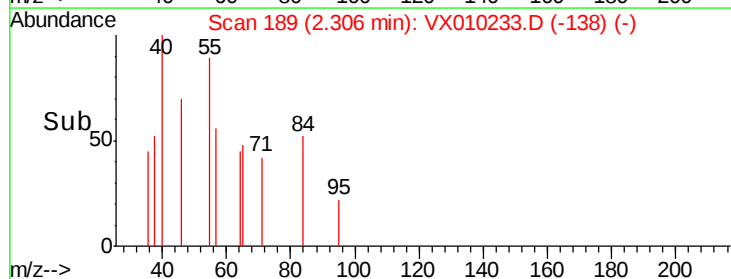
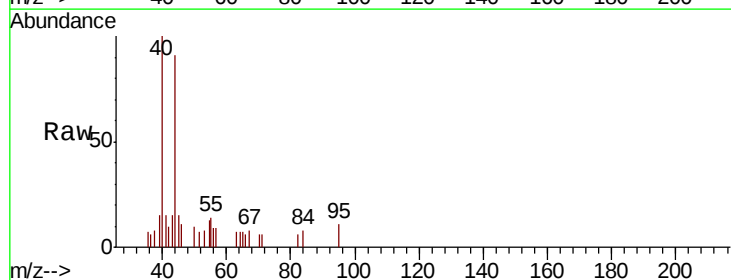
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20190606DL

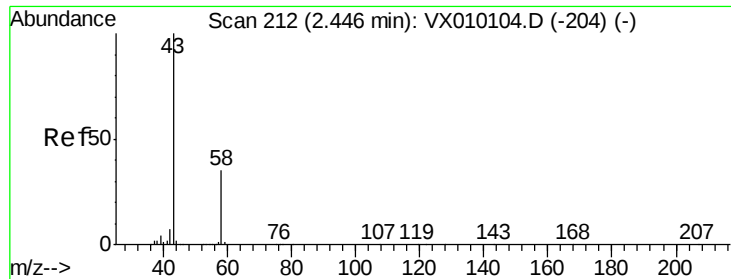
Tot Ion: 96 Resp: 580
 Ion Ratio Lower Upper
 96 100
 61 101.1 140.7 211.1#
 98 51.2 50.1 75.1



#13
 Acrolein
 Concen: 0.706 ug/l
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX010233.D
 Acq: 11 Jun 2019 15:28

Tgt Ion: 56 Resp: 74
 Ion Ratio Lower Upper
 56 100
 55 108.1 57.0 85.4#





#16

Acetone

Concen: 0.914 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

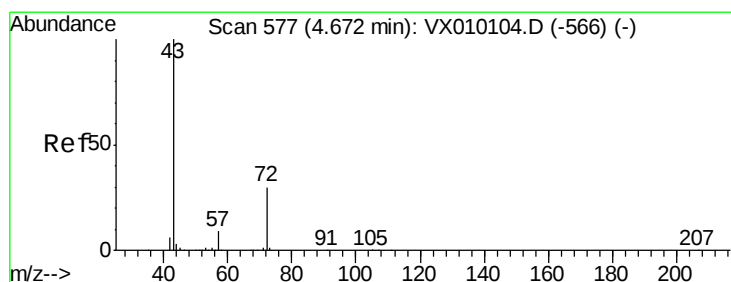
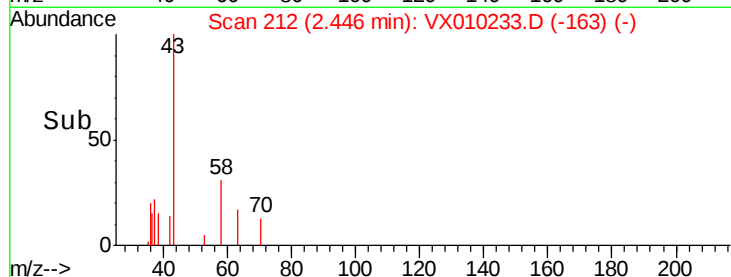
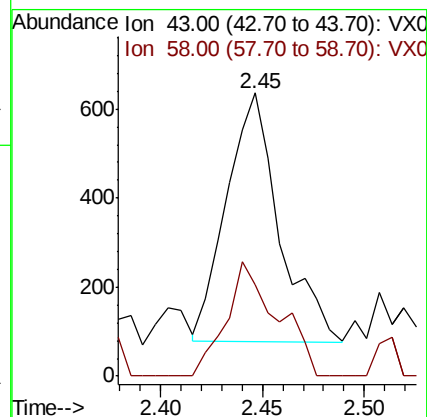
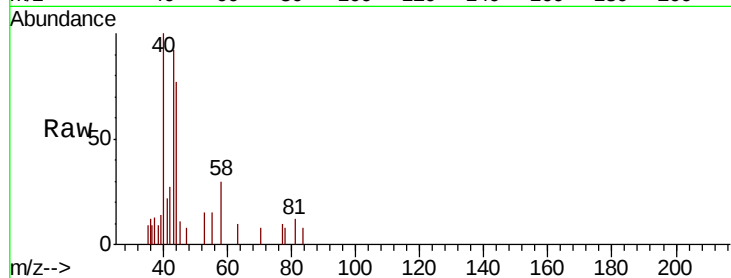
RE120D3-20190606DL

Tot Ion: 43 Resp: 1008

Ion Ratio Lower Upper

43 100

58 37.0 23.2 34.8#



#25

2-Butanone

Concen: 0.309 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010233.D

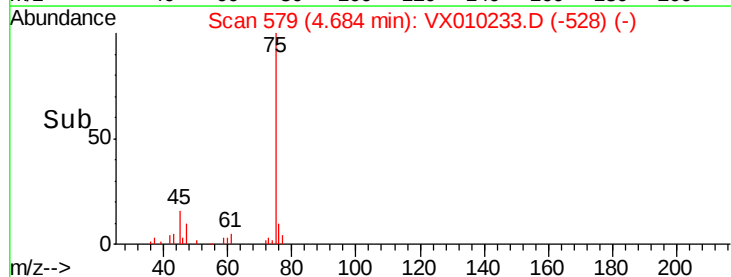
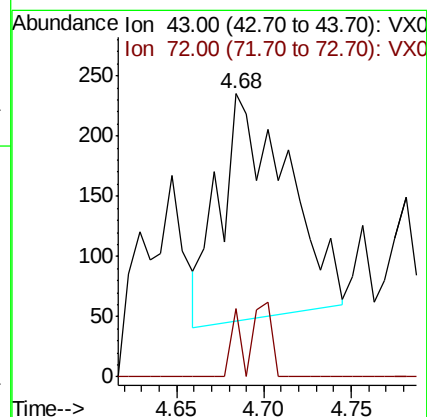
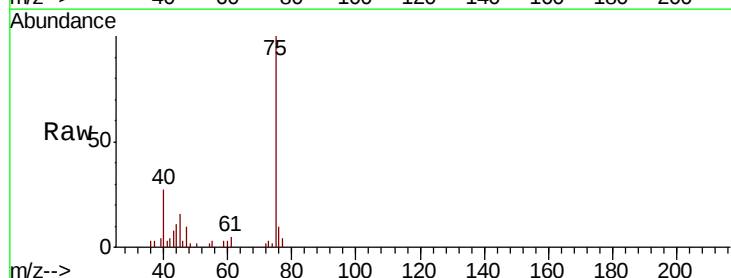
Acq: 11 Jun 2019 15:28

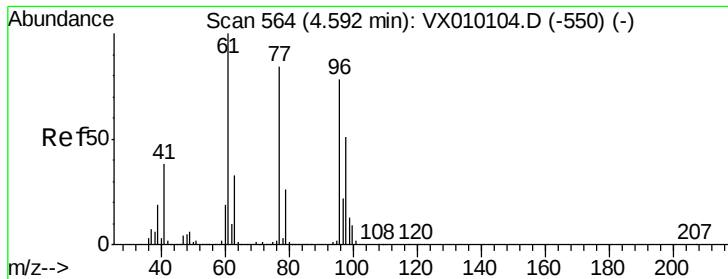
Tgt Ion: 43 Resp: 507

Ion Ratio Lower Upper

43 100

72 33.3 17.5 26.3#



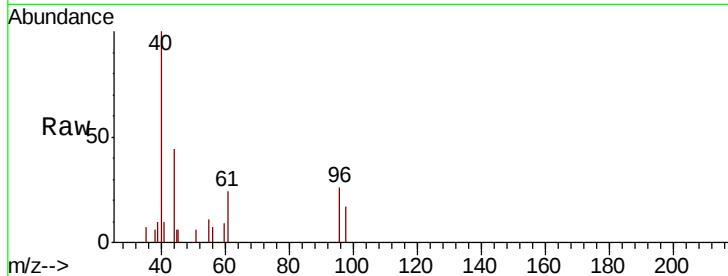


#27

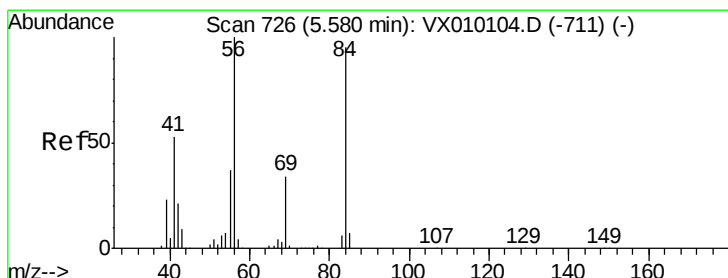
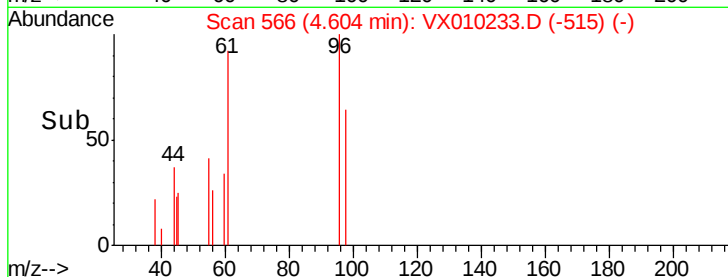
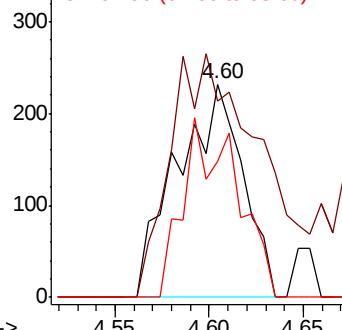
cis-1,2-Dichloroethene
 Concen: 0.211 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX010233.D
 Acq: 11 Jun 2019 15:28

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20190606DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.1	0.0	334.0
98	68.9	0.0	131.6



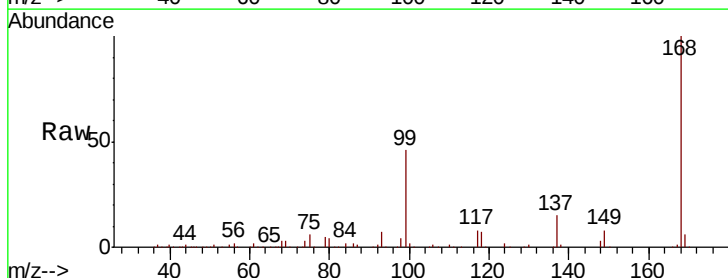
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



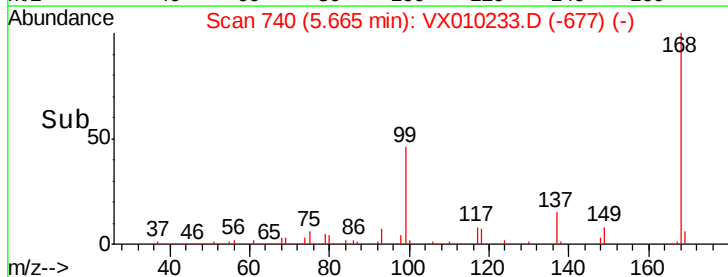
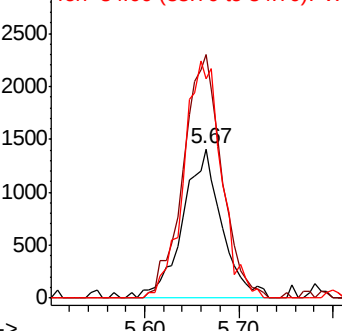
#31

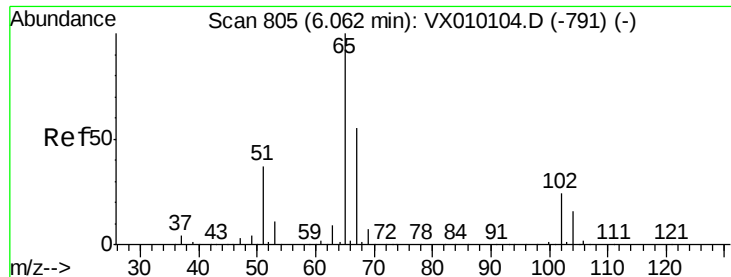
Cyclohexane
 Concen: 1.199 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. 0.09 min
 Lab File: VX010233.D
 Acq: 11 Jun 2019 15:28

Tgt Ion	Ratio	Lower	Upper
56	100		
69	163.3	21.6	32.4#
84	147.1	56.8	85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0

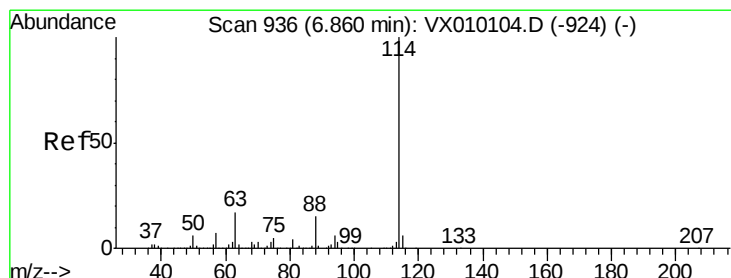
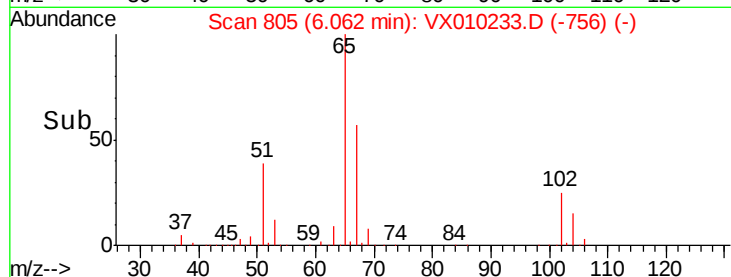
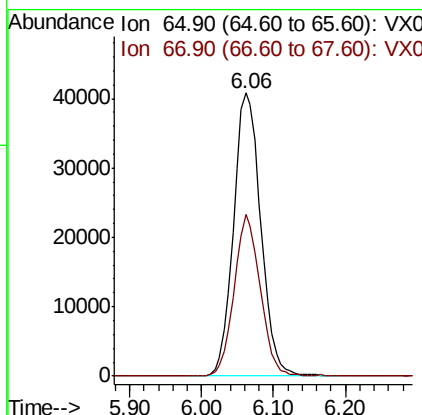
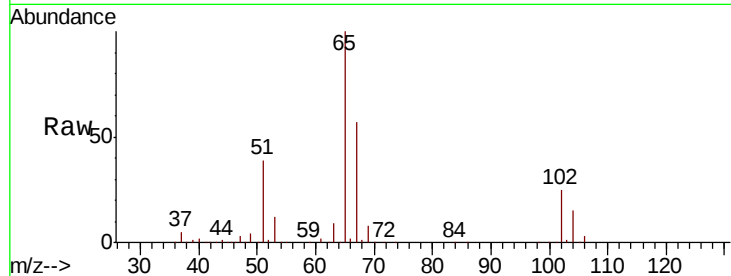




#33
 1,2-Dichloroethane-d4
 Concen: 45.730 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010233.D
 Acq: 11 Jun 2019 15:28

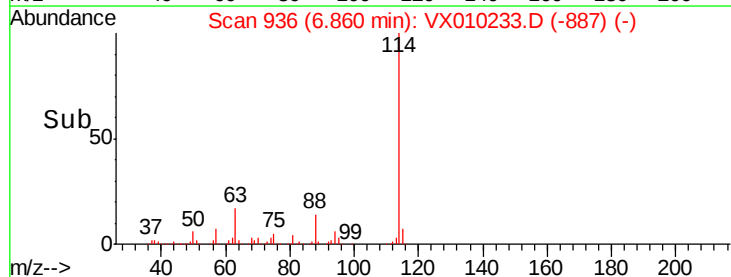
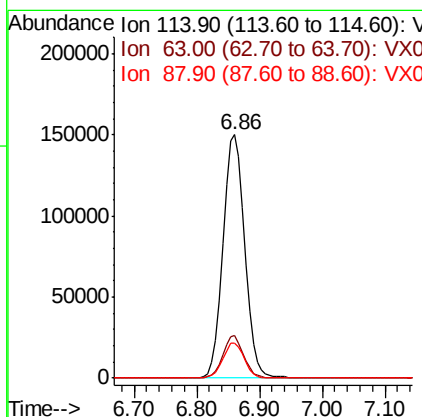
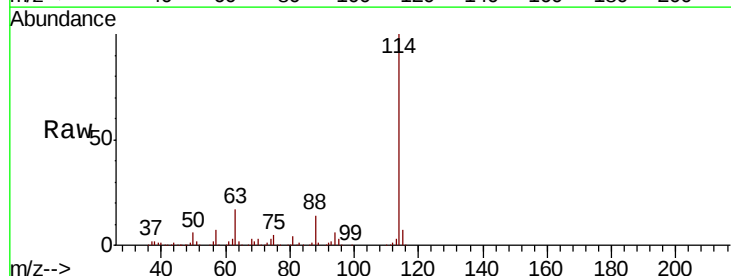
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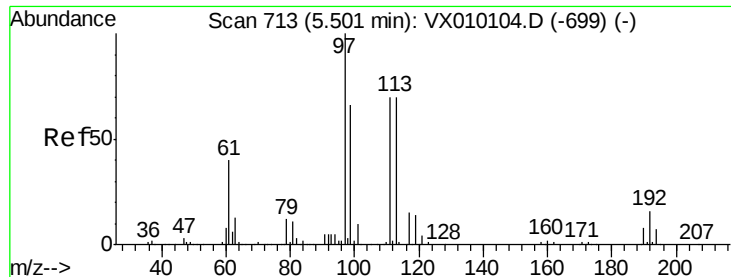
Tot Ion: 65 Resp: 107254
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010233.D
 Acq: 11 Jun 2019 15:28

Tgt Ion: 114 Resp: 359696
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 47.4
 88 14.5 0.0 33.0

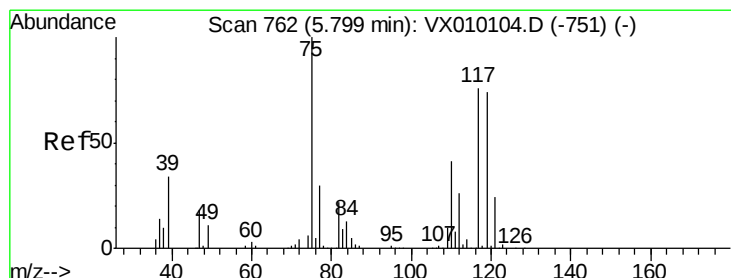
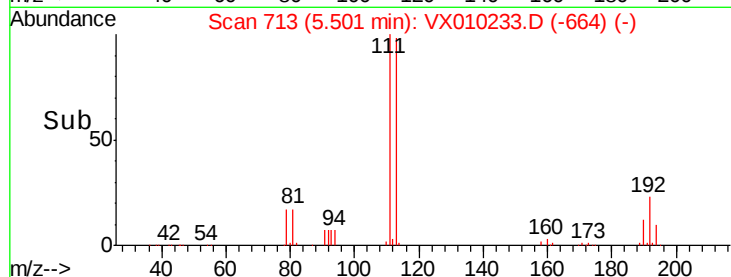
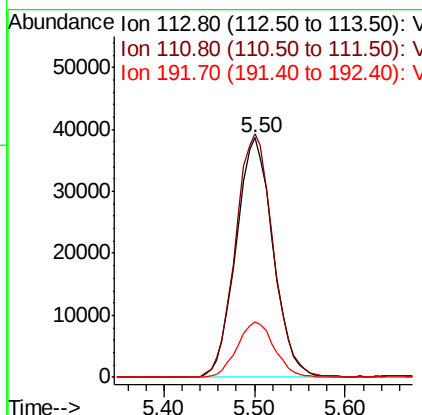
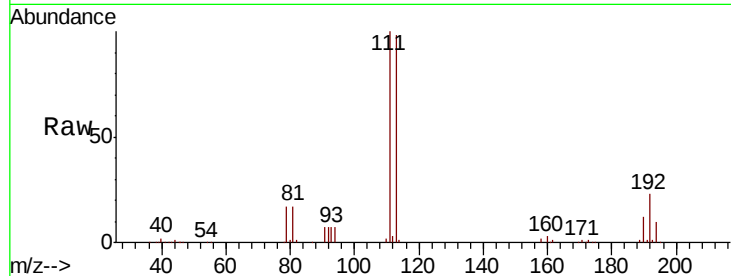




#35
 Dibromofluoromethane
 Concen: 49.394 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX010233.D
 Acq: 11 Jun 2019 15:28

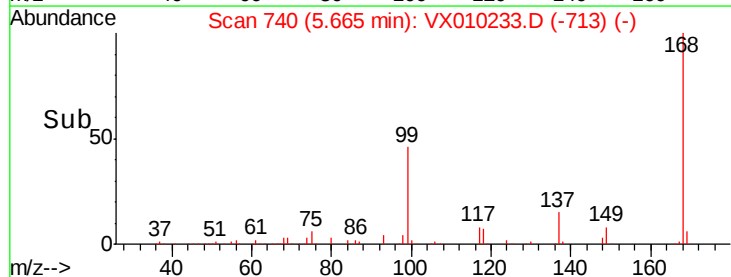
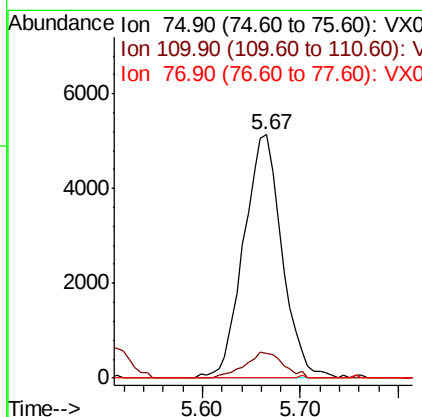
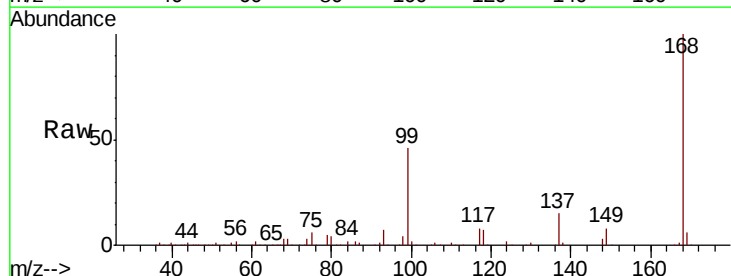
Instrument :
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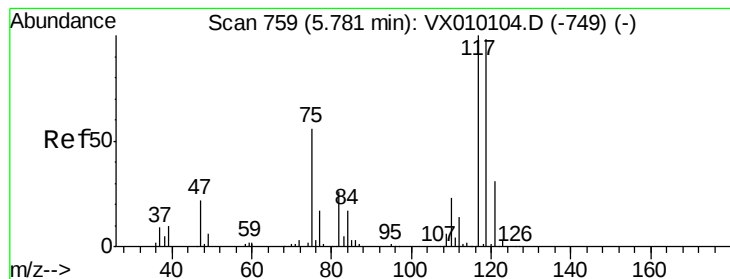
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.2
192	23.1	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.789 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX010233.D
 Acq: 11 Jun 2019 15:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	16.7	50.1#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.078 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606DL

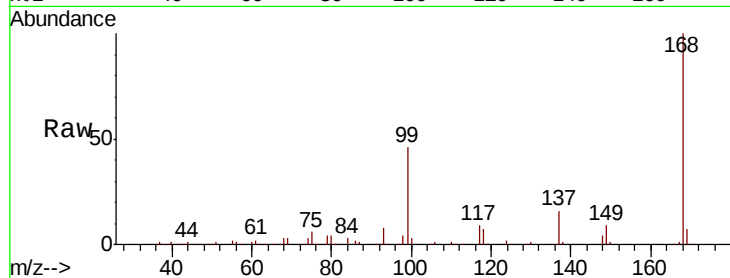
Tot Ion:117 Resp: 20187

Ion Ratio Lower Upper

117 100

119 5.7 77.3 115.9#

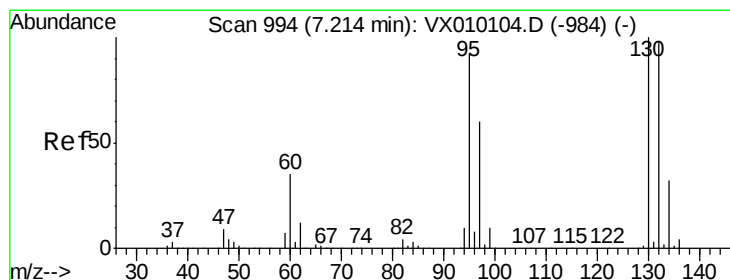
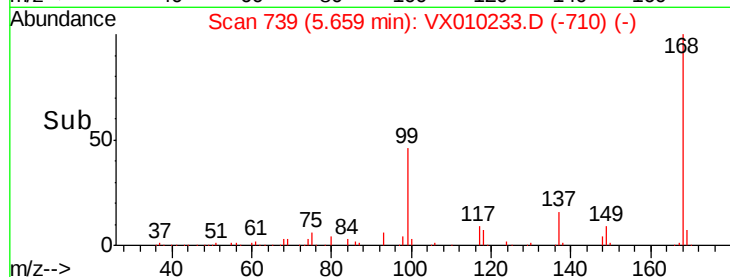
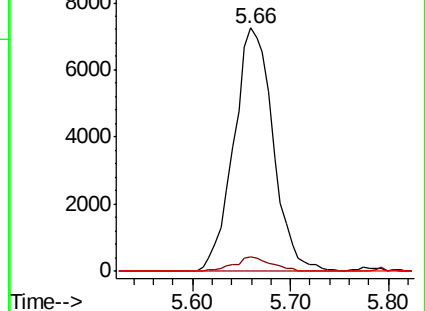
121 0.0 25.4 38.0#



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



#44

Trichloroethene

Concen: 40.681 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010233.D

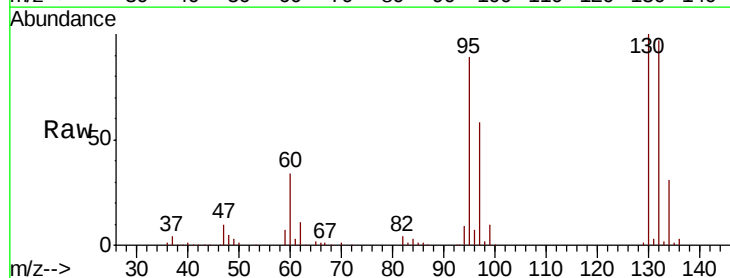
Acq: 11 Jun 2019 15:28

Tgt Ion:130 Resp: 111273

Ion Ratio Lower Upper

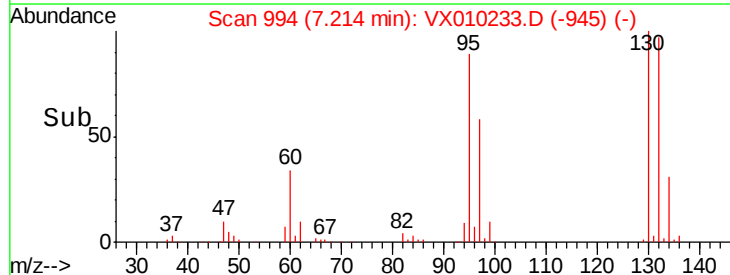
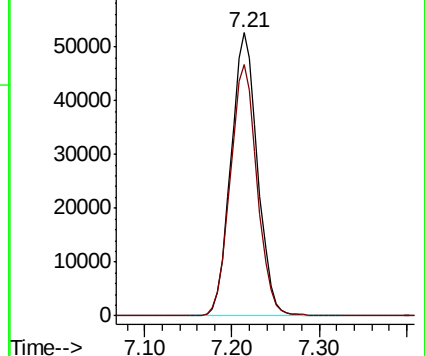
130 100

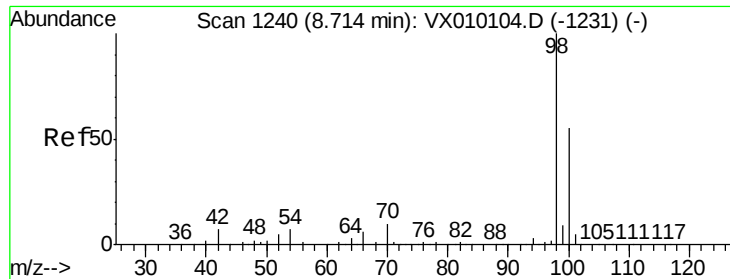
95 88.8 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.511 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

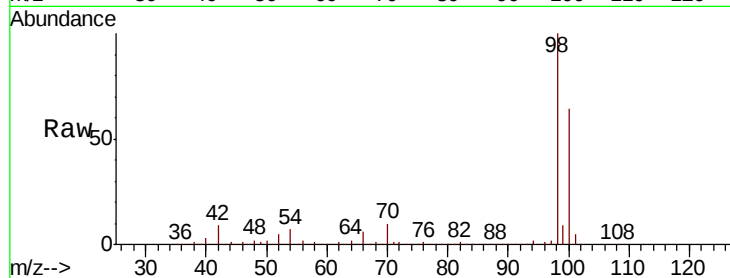
RE120D3-20190606DL

Tot Ion: 98 Resp: 420018

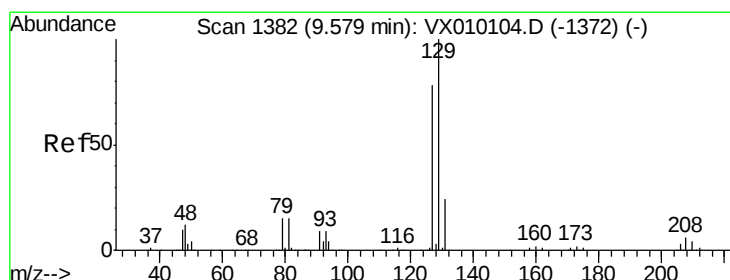
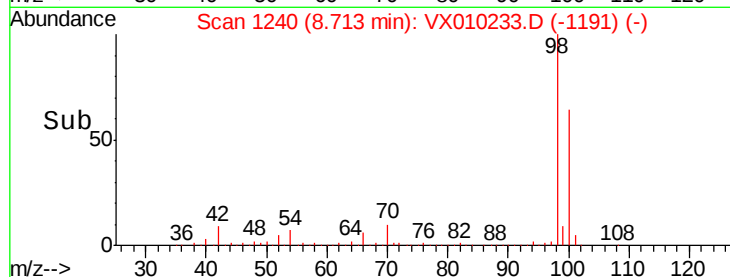
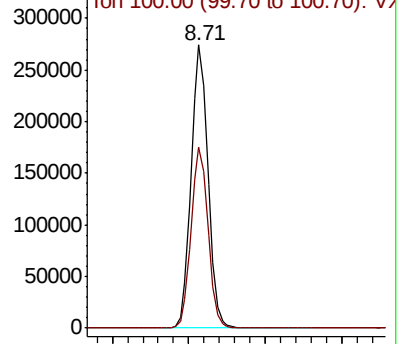
Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX010104.D (-1231) (-)



#60

Dibromochloromethane

Concen: 0.229 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010233.D

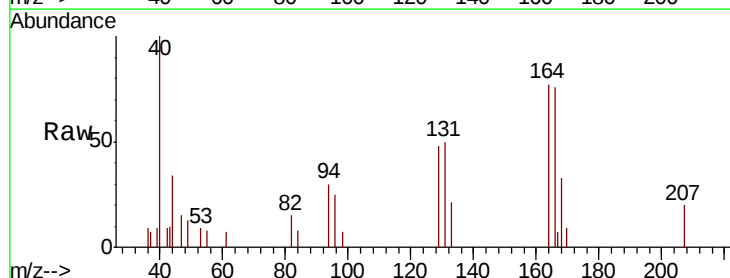
Acq: 11 Jun 2019 15:28

Tgt Ion: 129 Resp: 663

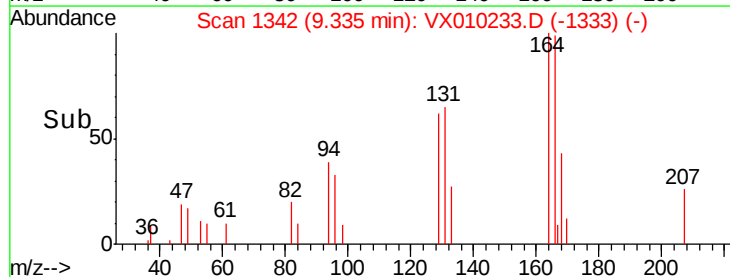
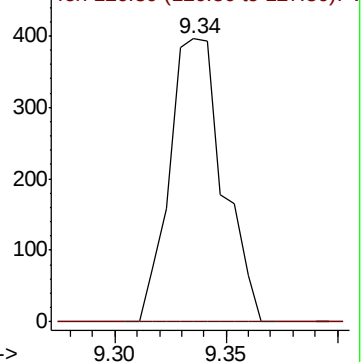
Ion Ratio Lower Upper

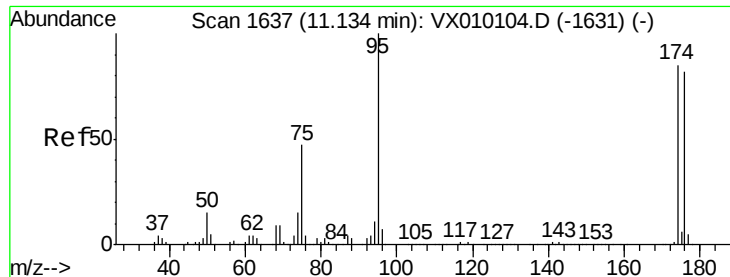
129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VX010104.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 45.681 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606DL

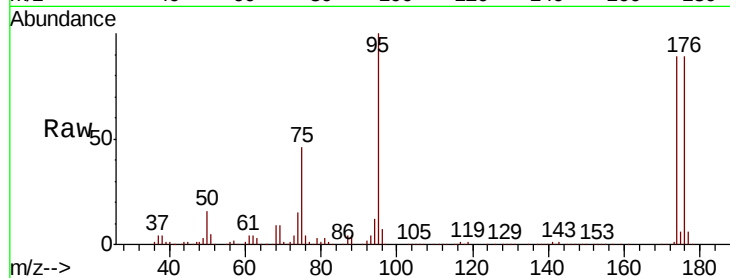
Tot Ion: 95 Resp: 141859

Ion Ratio Lower Upper

95 100

174 95.7 0.0 160.4

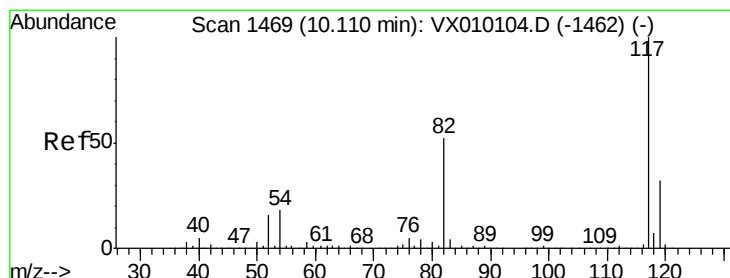
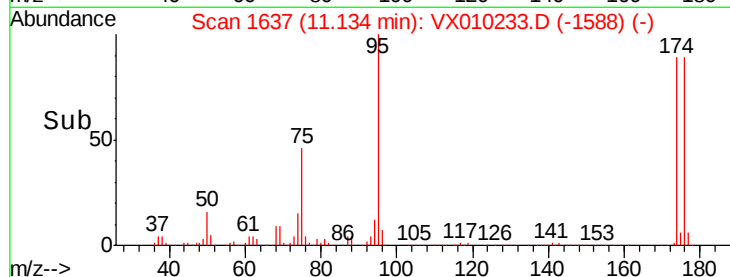
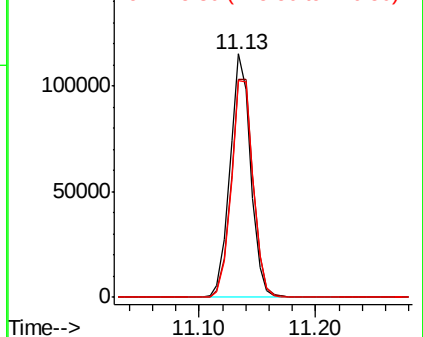
176 94.1 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

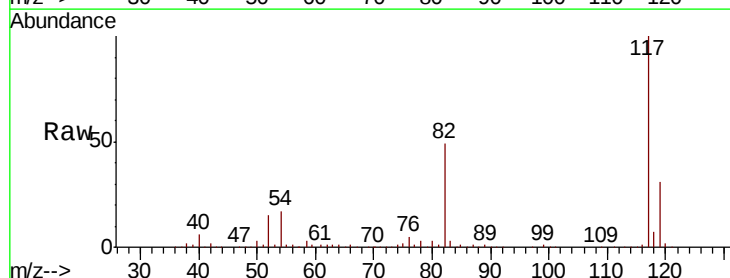
Tgt Ion: 117 Resp: 325069

Ion Ratio Lower Upper

117 100

82 48.8 49.2 73.8#

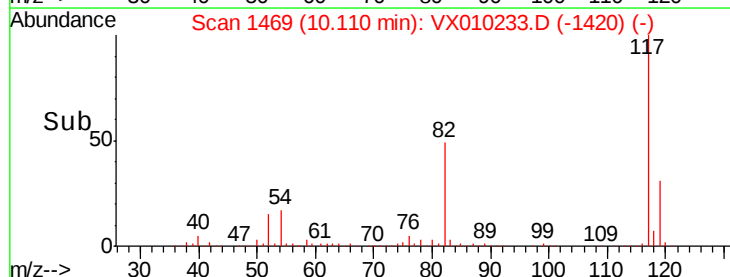
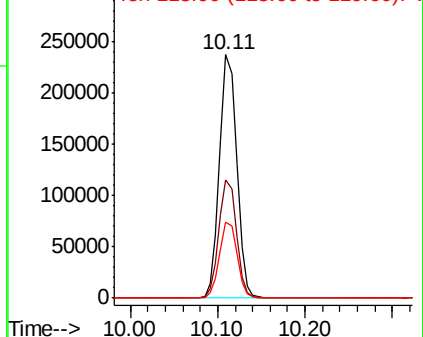
119 31.0 25.2 37.8

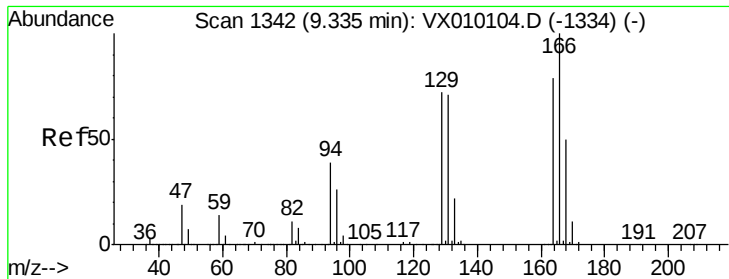


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.355 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20190606DL

Tot Ion:164 Resp: 858

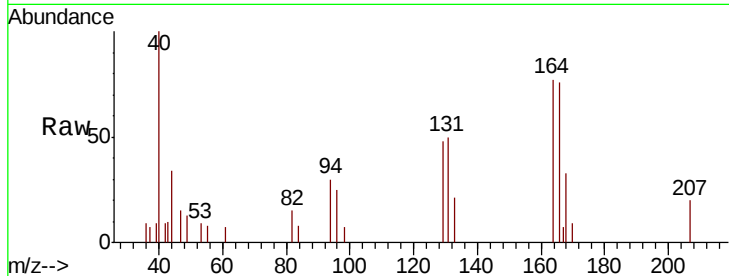
Ion Ratio Lower Upper

164 100

166 98.6 105.0 157.4#

129 62.4 75.1 112.7#

131 65.4 72.2 108.4#



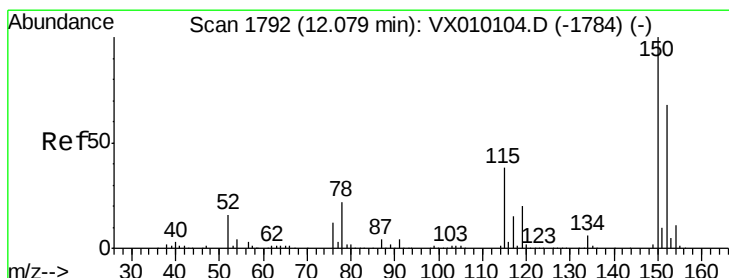
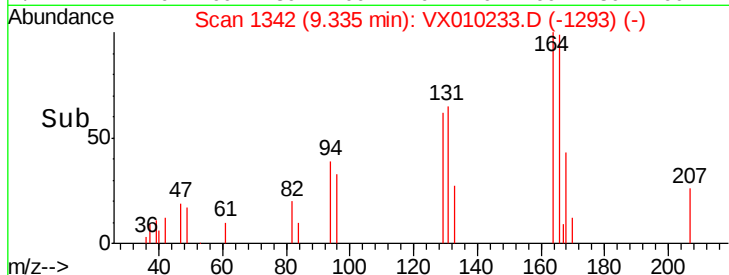
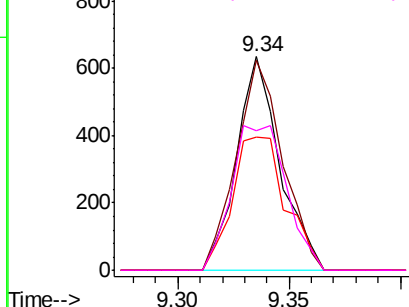
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

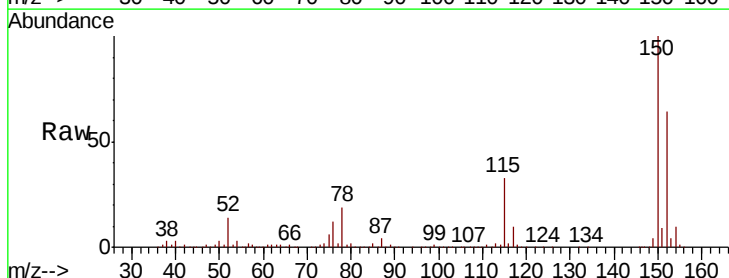
Tgt Ion:152 Resp: 152551

Ion Ratio Lower Upper

152 100

115 53.4 41.4 124.2

150 155.2 0.0 345.2

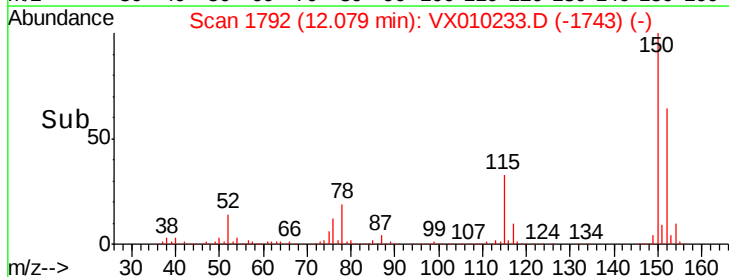
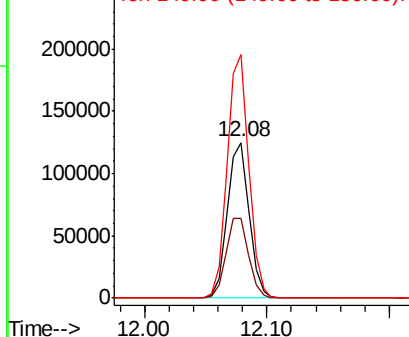


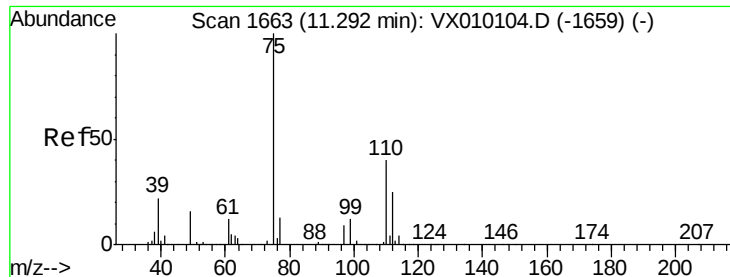
Abundance

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: 20.918 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

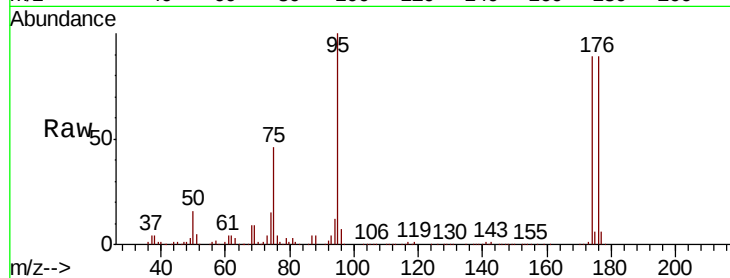
RE120D3-20190606DL

Tot Ion: 75 Resp: 63826

Ion Ratio Lower Upper

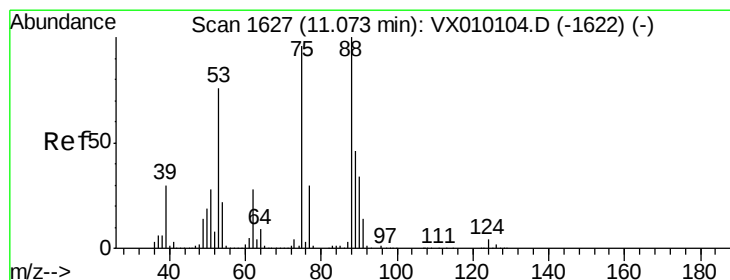
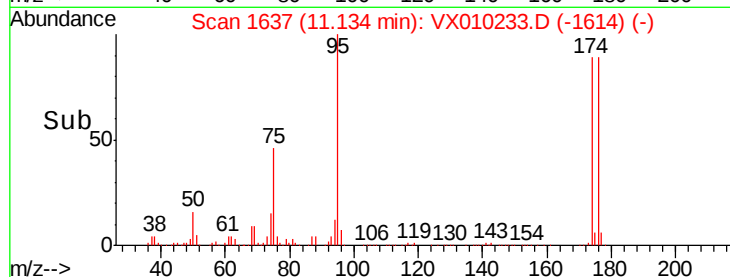
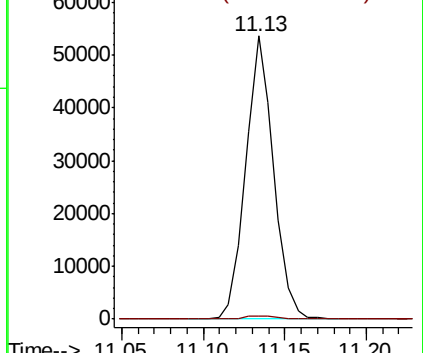
75 100

77 1.5 22.1 66.1#



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: 46.216 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010233.D

Acq: 11 Jun 2019 15:28

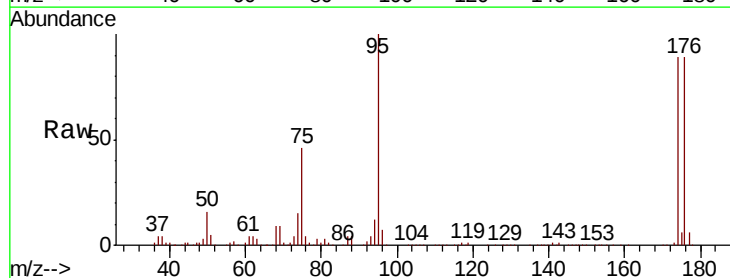
Tgt Ion: 75 Resp: 63826

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

