

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010245.D
 Acq On : 12 Jun 2019 13:04
 Operator : JC/SP
 Sample : K3309-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 01:25:48 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	312915	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	479853	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	432109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	207273	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	142367	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
35) Dibromofluoromethane	5.50	113	147722	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
50) Toluene-d8	8.71	98	559971	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	
62) 4-Bromofluorobenzene	11.13	95	193439	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	

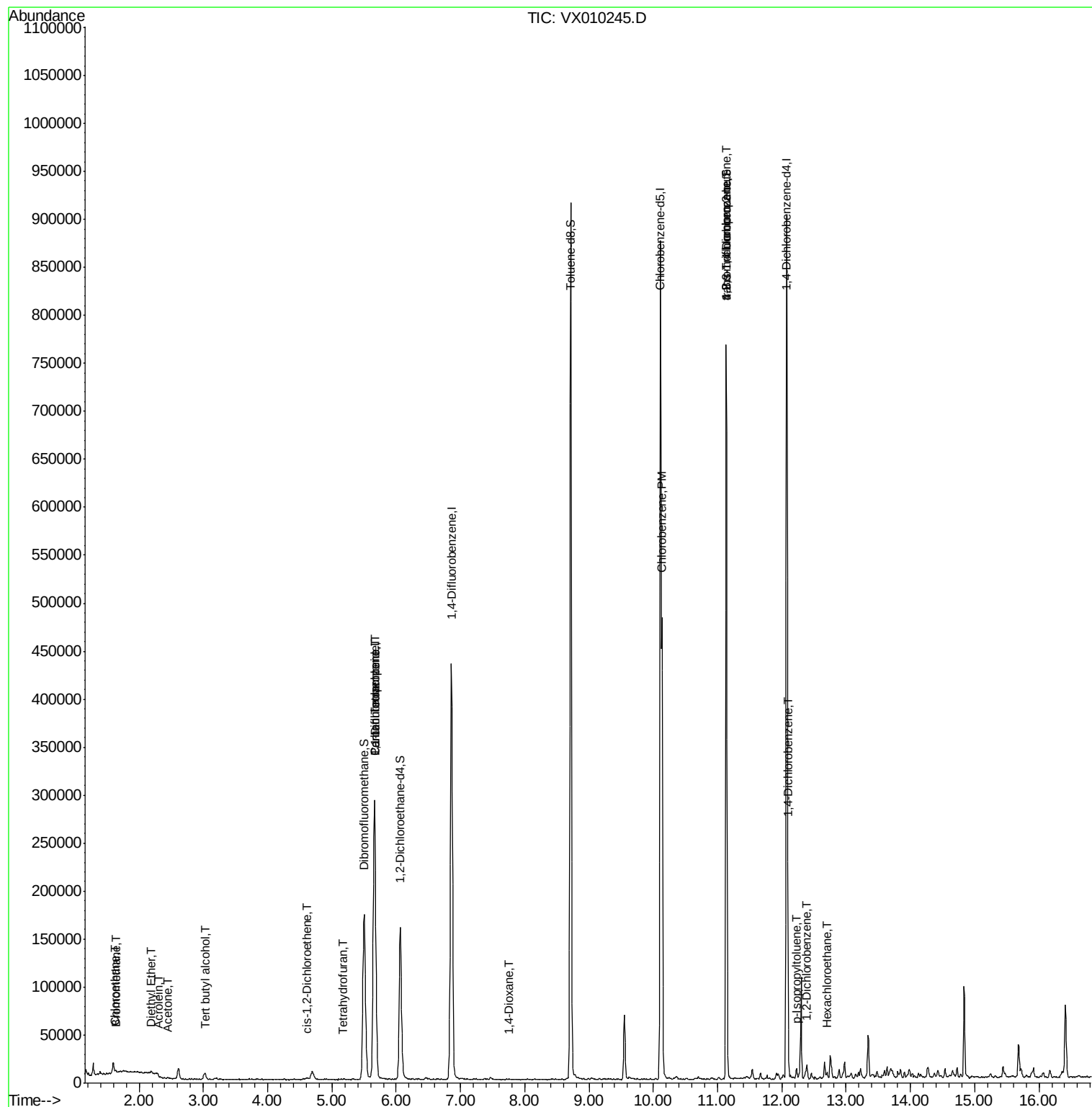
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	404	0.398	ug/l #	64
6) Chloroethane	1.64	64	625	0.461	ug/l #	61
8) Diethyl Ether	2.20	74	1155	0.839	ug/l	61
11) Tert butyl alcohol	3.02	59	4575	6.114	ug/l #	87
13) Acrolein	2.29	56	424	3.108	ug/l #	1
16) Acetone	2.45	43	1967	1.369	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	883	0.255	ug/l	73
29) Tetrahydrofuran	5.17	42	446	0.332	ug/l #	57
36) 1,1-Dichloropropene	5.66	75	18758	4.791	ug/l #	53
38) Carbon Tetrachloride	5.67	117	27205	6.139	ug/l #	16
49) 1,4-Dioxane	7.75	88	278	3.061	ug/l #	34
65) Chlorobenzene	10.13	112	211524	23.718	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	88138	21.259	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	88138	46.971	ug/l #	10
86) p-Isopropyltoluene	12.23	119	4629	0.352	ug/l	91
88) 1,4-Dichlorobenzene	12.10	146	24500	3.468	ug/l	95
90) Hexachloroethane	12.70	117	2279	0.871	ug/l #	6
91) 1,2-Dichlorobenzene	12.39	146	4438	0.651	ug/l	93

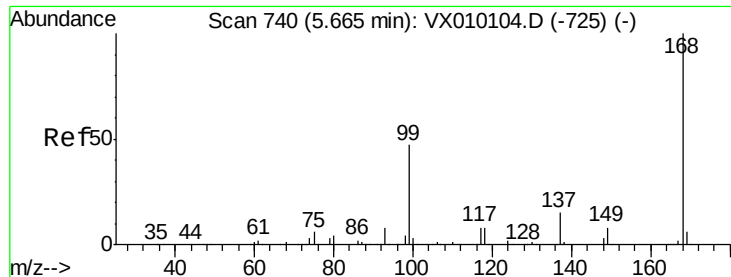
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX010245.D

Acq: 12 Jun 2019 13:04

Instrument :

MSVOA_X

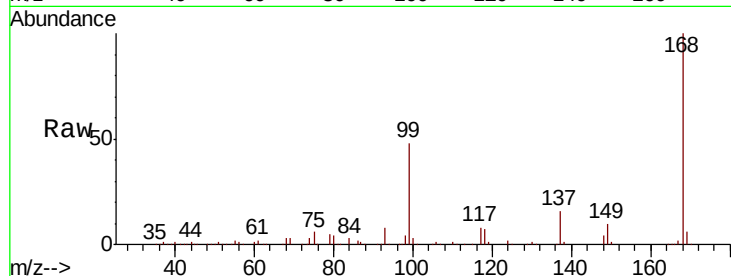
ClientSampleId :

Tot Ion:168 Resp: 312915

Ion Ratio Lower Upper

168 100

99 48.3 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

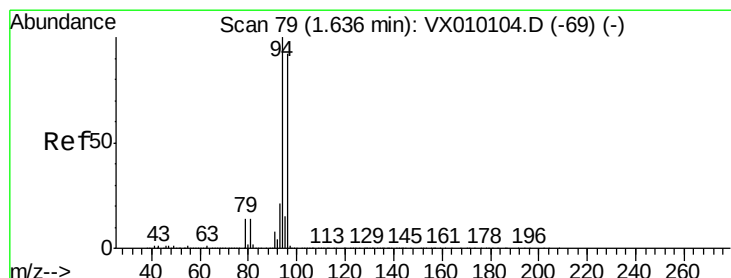
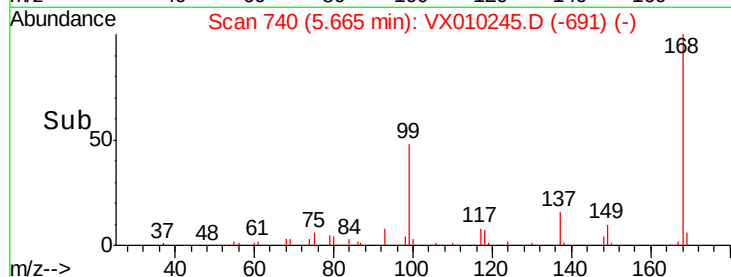
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.398 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010245.D

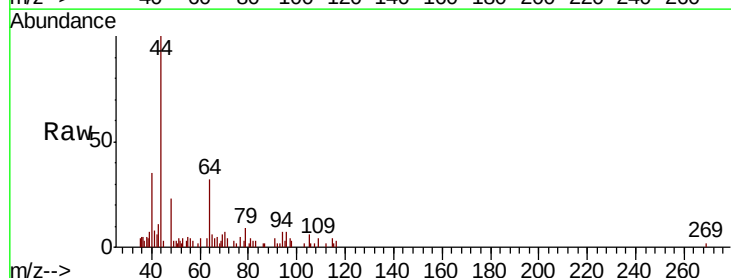
Acq: 12 Jun 2019 13:04

Tgt Ion: 94 Resp: 404

Ion Ratio Lower Upper

94 100

96 59.8 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

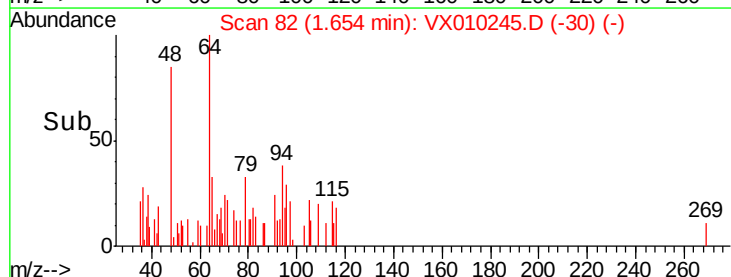
100

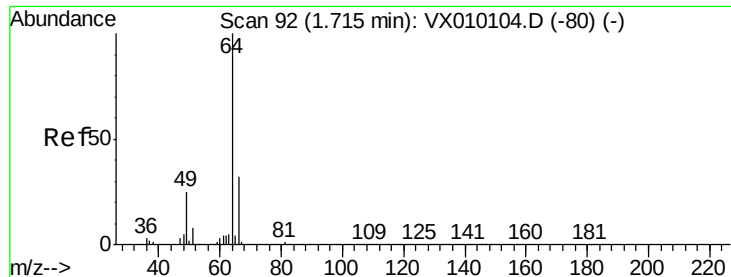
50

0

Time-->

1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.461 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.08 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

Instrument :

MSVOA_X

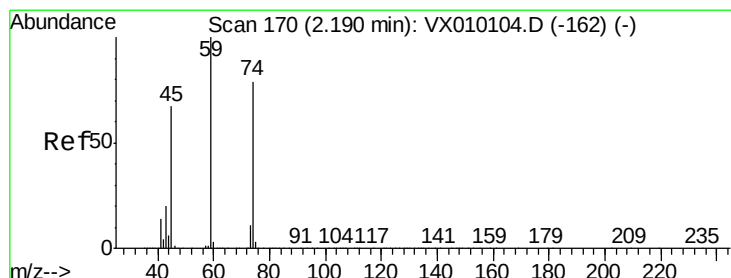
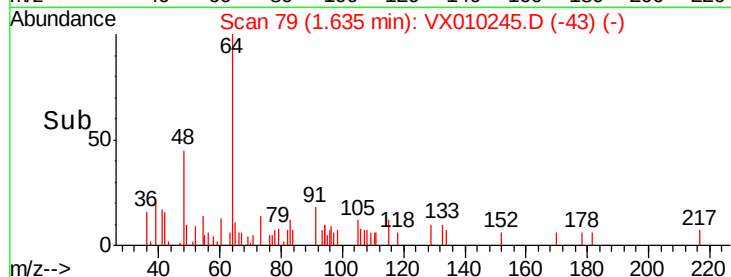
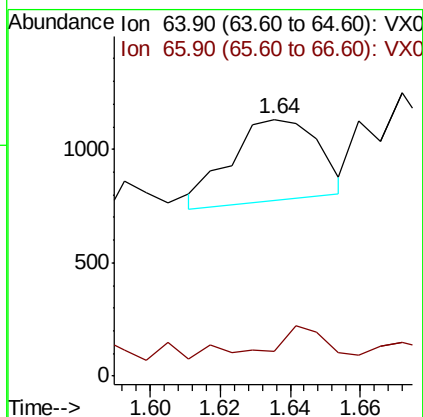
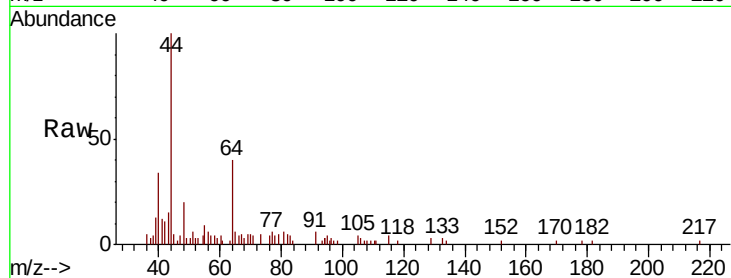
ClientSampled :

Tot Ion: 64 Resp: 625

Ion Ratio Lower Upper

64 100

66 10.1 25.1 37.7#



#8

Diethyl Ether

Concen: 0.839 ug/l

RT: 2.20 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX010245.D

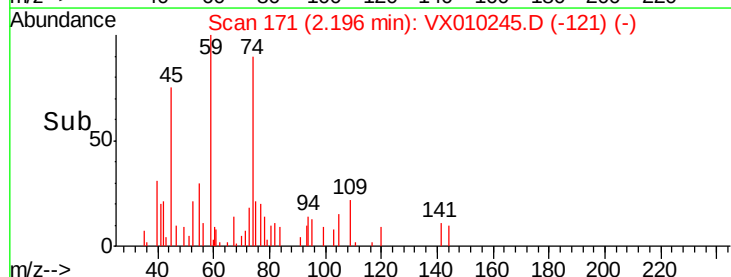
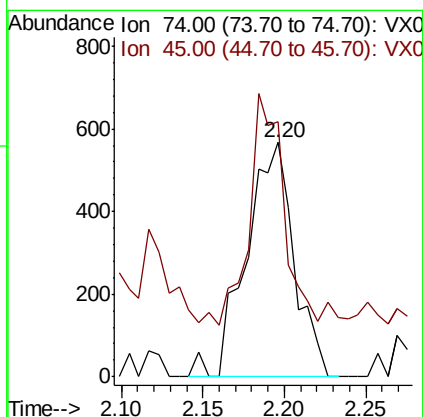
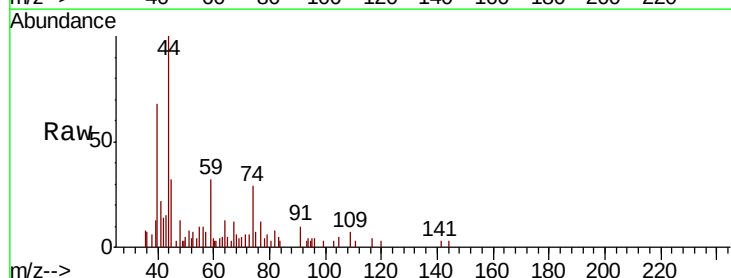
Acq: 12 Jun 2019 13:04

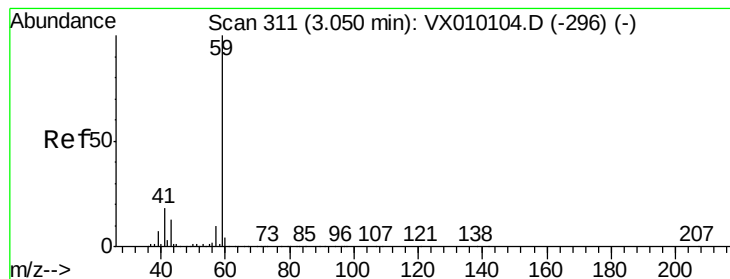
Tgt Ion: 74 Resp: 1155

Ion Ratio Lower Upper

74 100

45 70.5 56.1 168.3



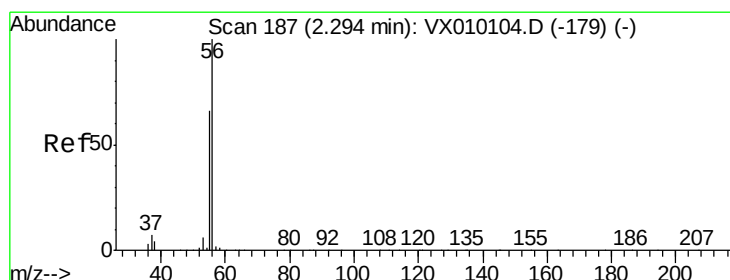
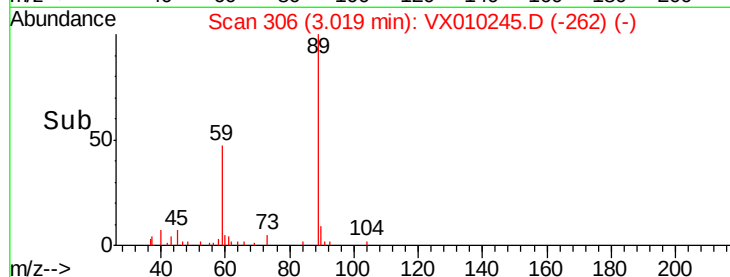
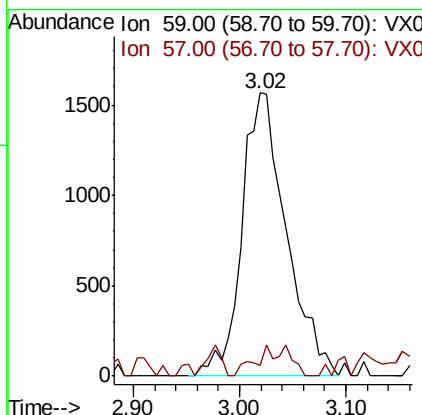
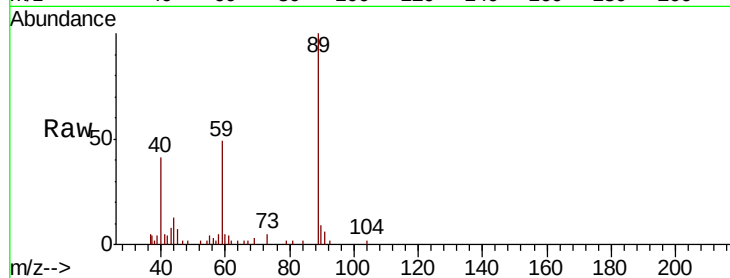


#11

Tert butyl alcohol
 Concen: 6.114 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010245.D
 Acq: 12 Jun 2019 13:04

Instrument :
 MSVOA_X
 ClientSampleId :

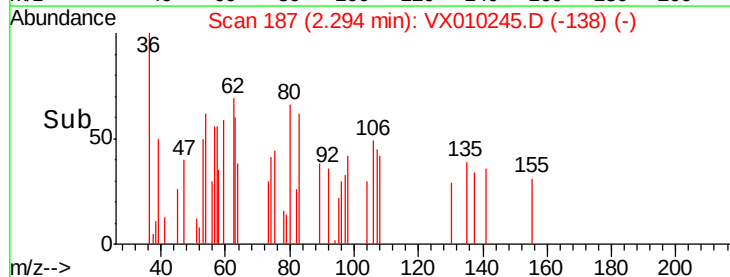
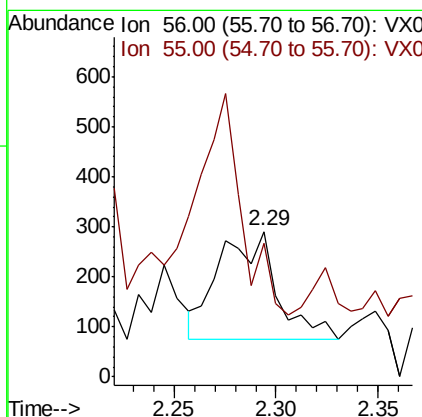
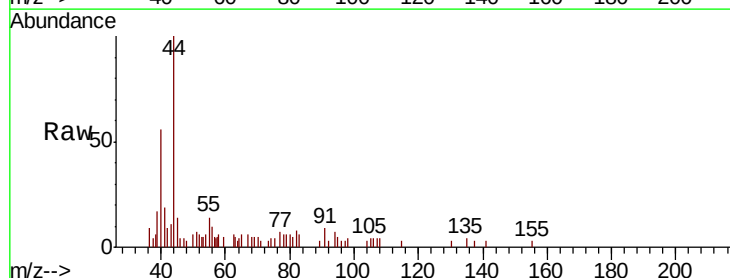
Tot Ion: 59 Resp: 4575
 Ion Ratio Lower Upper
 59 100
 57 5.2 8.2 12.2#

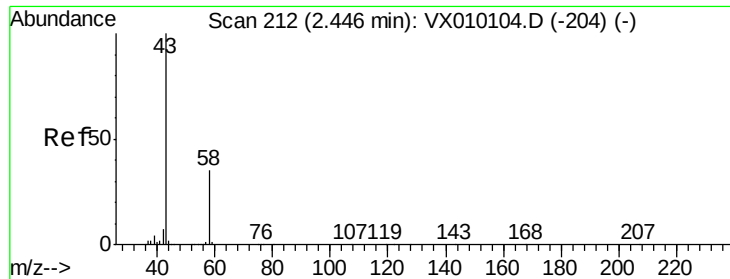


#13

Acrolein
 Concen: 3.108 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX010245.D
 Acq: 12 Jun 2019 13:04

Tgt Ion: 56 Resp: 424
 Ion Ratio Lower Upper
 56 100
 55 180.0 57.0 85.4#





#16

Acetone

Concen: 1.369 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

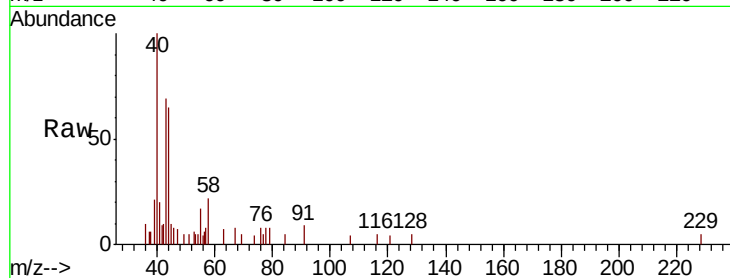
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1967

Ion Ratio Lower Upper

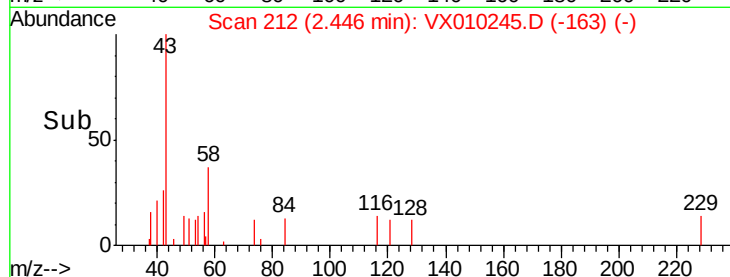
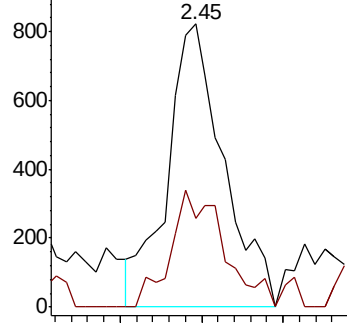
43 100

58 31.1 23.2 34.8

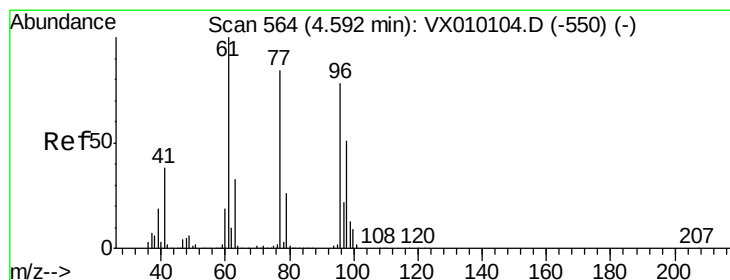


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.255 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

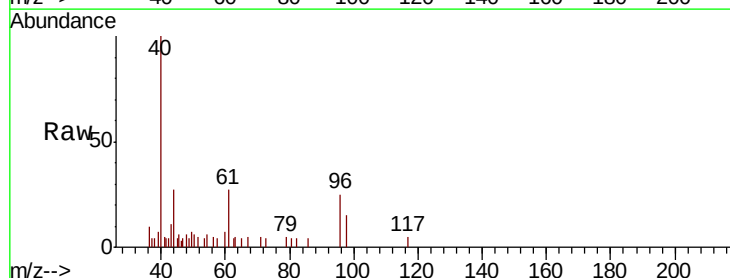
Tgt Ion: 96 Resp: 883

Ion Ratio Lower Upper

96 100

61 120.5 0.0 334.0

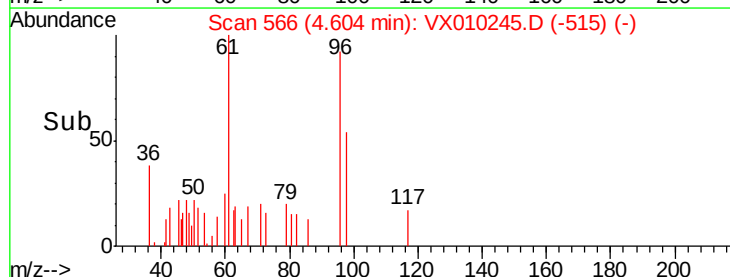
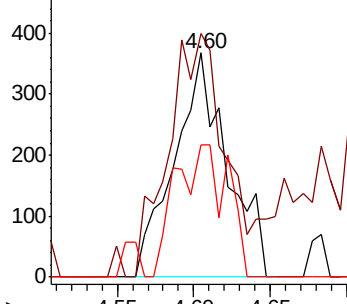
98 58.1 0.0 131.6



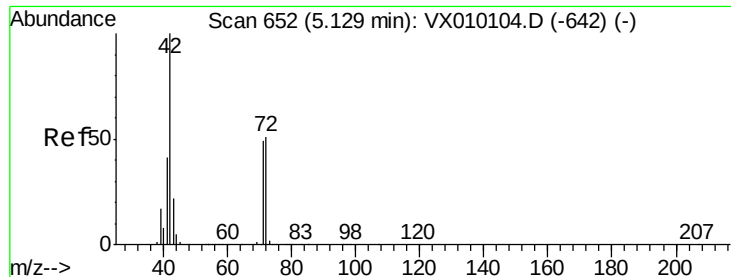
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



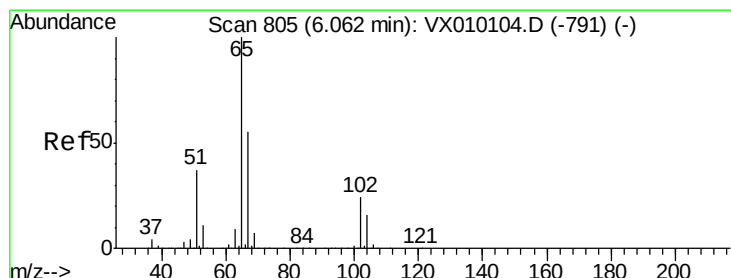
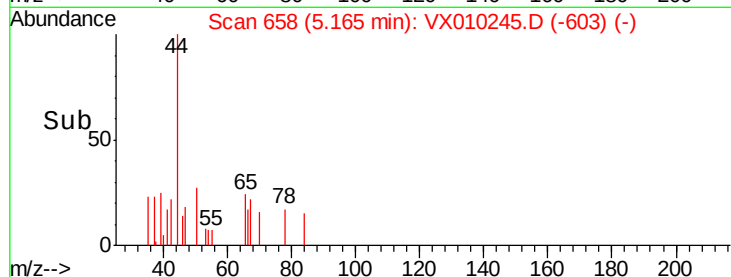
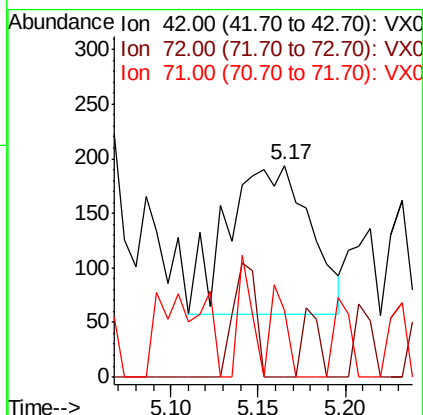
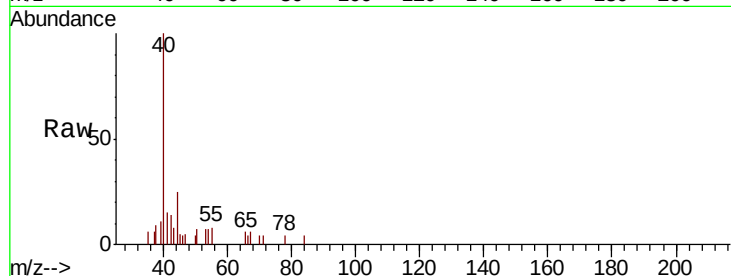
Time-->



#29
Tetrahydrofuran
Concen: 0.332 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.04 min
Lab File: VX010245.D
Acq: 12 Jun 2019 13:04

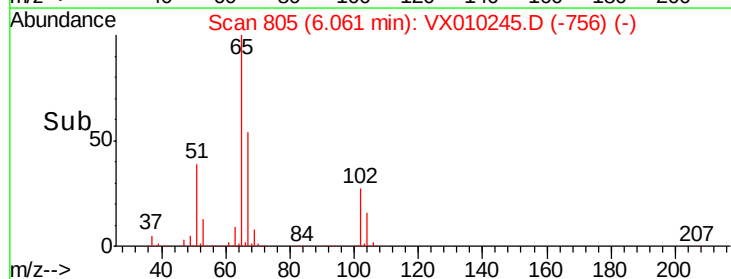
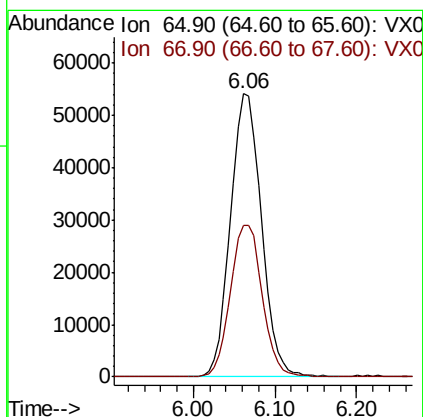
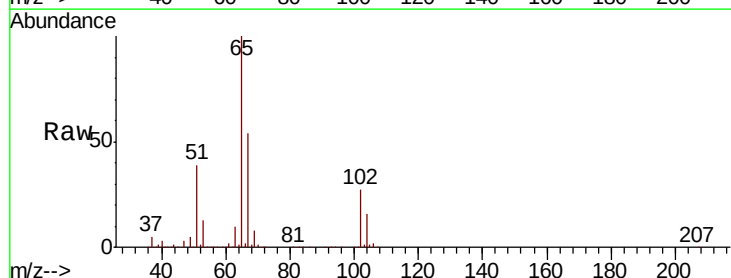
Instrument :
MSVOA_X
ClientSampled :

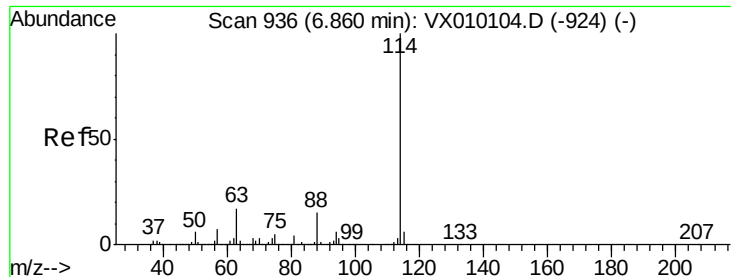
Tot Ion	Ratio	Lower	Upper
42	100		
72	9.4	29.2	43.8#
71	11.9	27.6	41.4#



#33
1,2-Dichloroethane-d4
Concen: 46.610 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010245.D
Acq: 12 Jun 2019 13:04

Tgt Ion	Ratio	Lower	Upper
65	100		
67	54.8	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: VX010245.D

Acq: 12 Jun 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

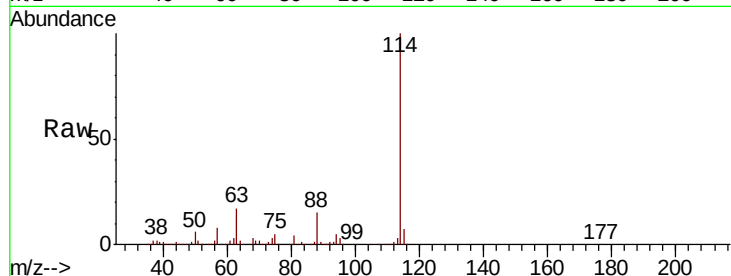
Tot Ion:114 Resp: 479853

Ion Ratio Lower Upper

114 100

63 16.7 0.0 47.4

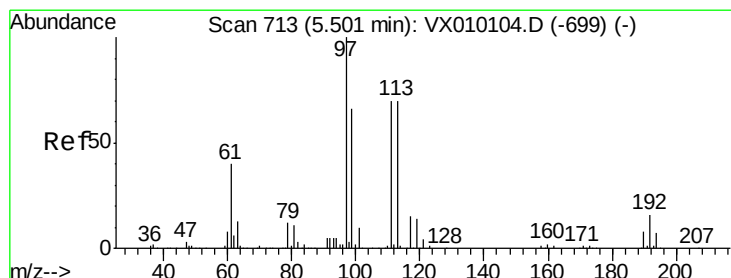
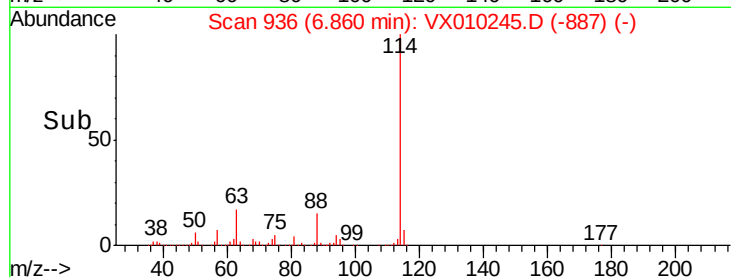
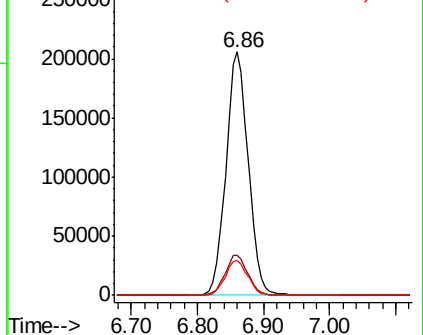
88 14.6 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.909 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

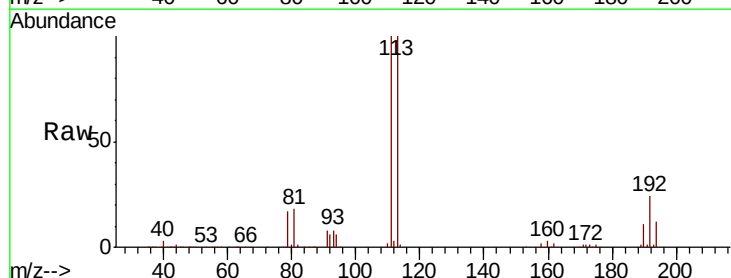
Tgt Ion:113 Resp: 147722

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.2

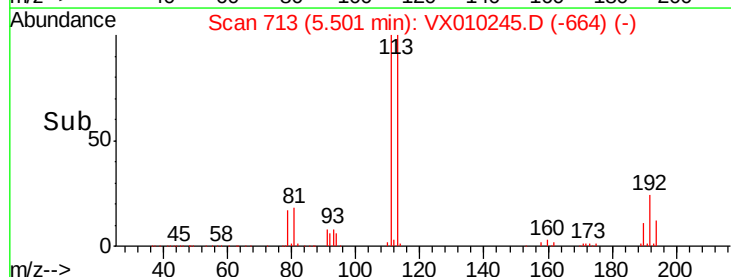
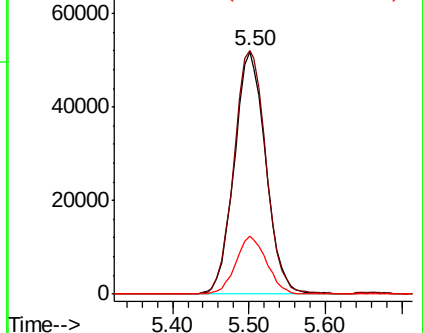
192 23.5 17.1 25.7

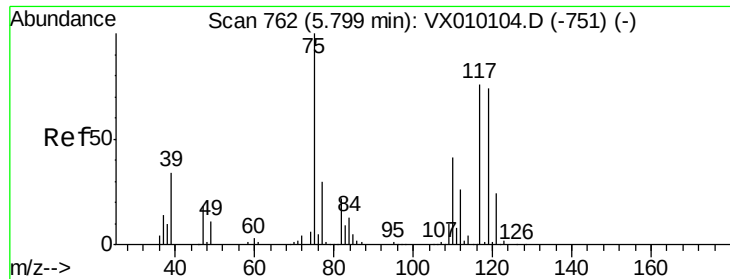


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

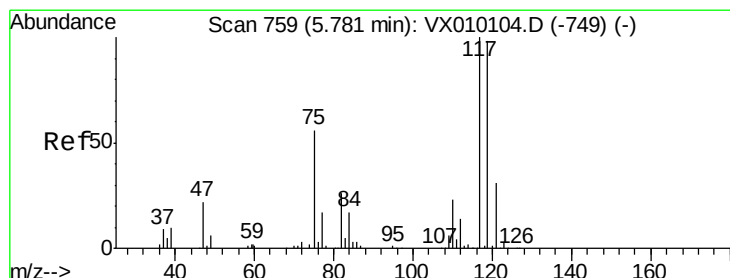
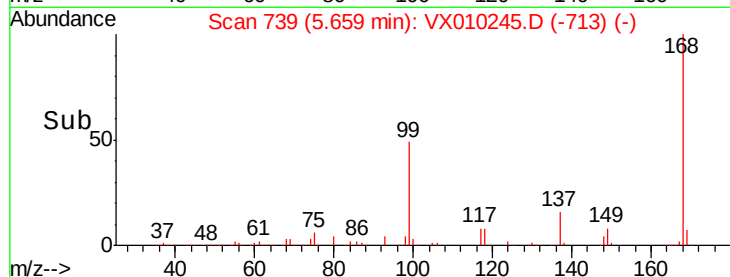
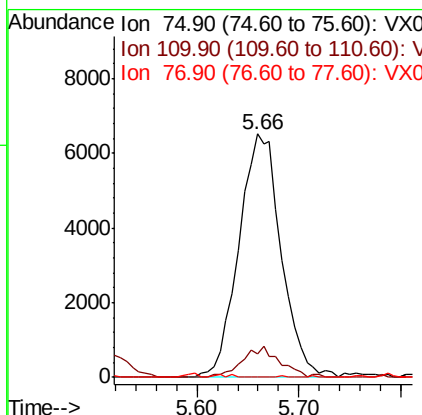
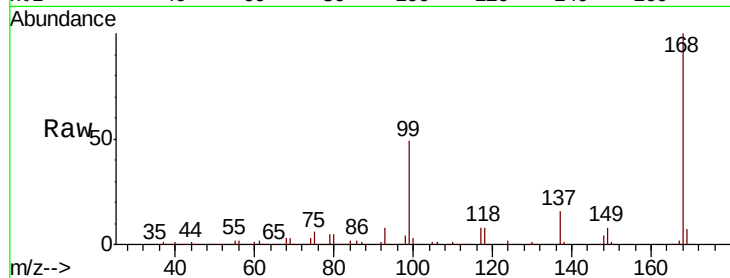




#36
 1,1-Dichloropropene
 Concen: 4.791 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010245.D
 Acq: 12 Jun 2019 13:04

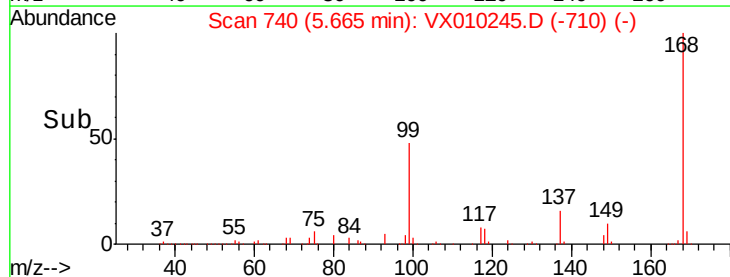
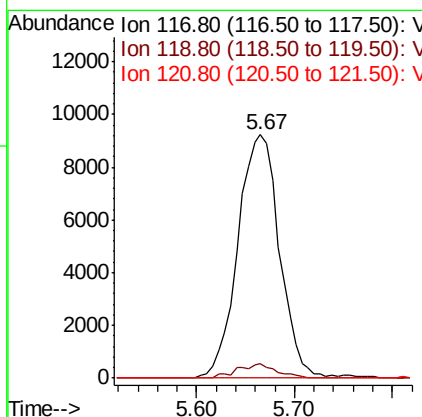
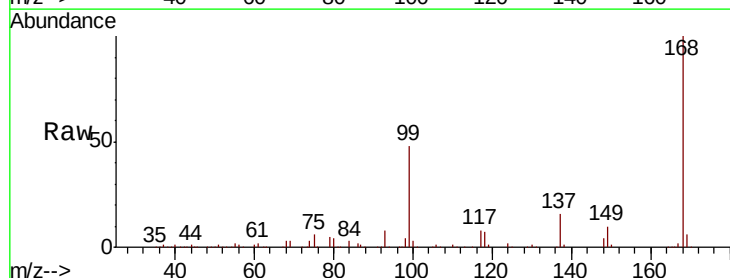
Instrument :
 MSVOA_X
 ClientSampleId :

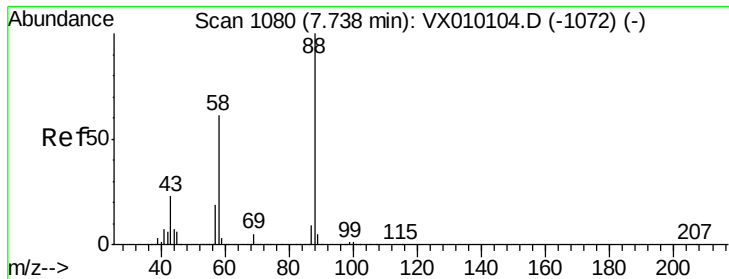
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.3	16.7	50.1#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.139 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010245.D
 Acq: 12 Jun 2019 13:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.3	115.9#
121	0.0	25.4	38.0#





#49

1,4-Dioxane

Concen: 3.061 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

Instrument :
MSVOA_X
ClientSampled :

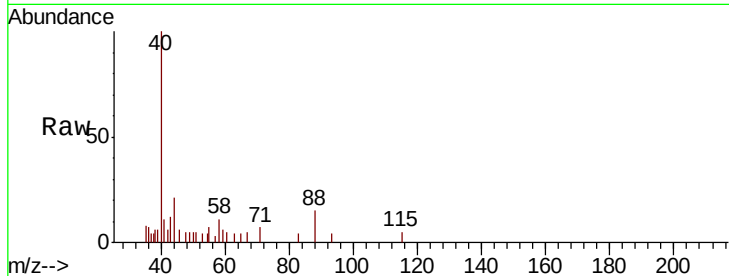
Tot Ion: 88 Resp: 278

Ion Ratio Lower Upper

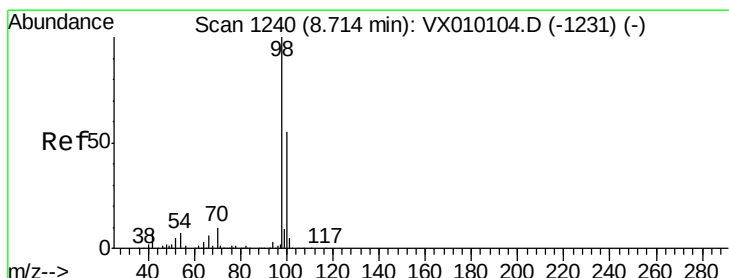
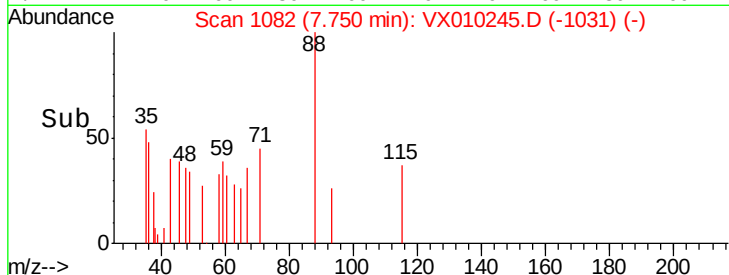
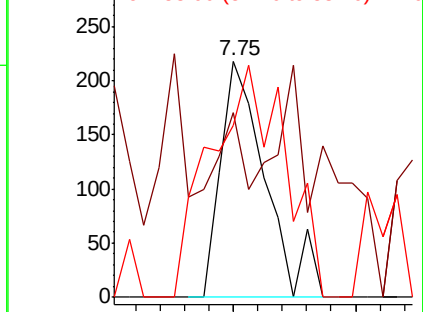
88 100

43 35.3 30.2 45.4

58 164.4 64.0 96.0#



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: 50.480 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010245.D

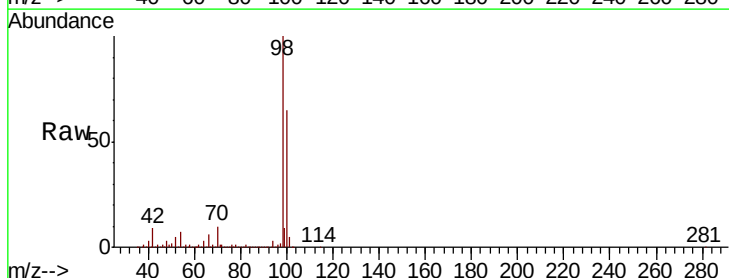
Acq: 12 Jun 2019 13:04

Tgt Ion: 98 Resp: 559971

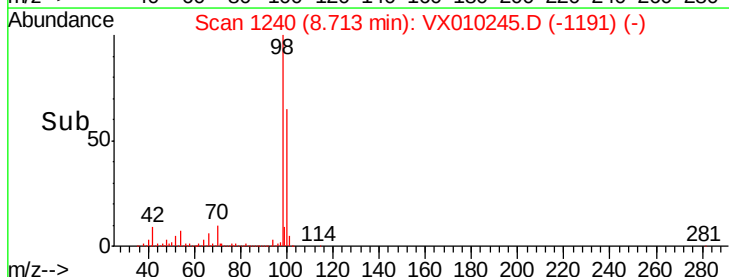
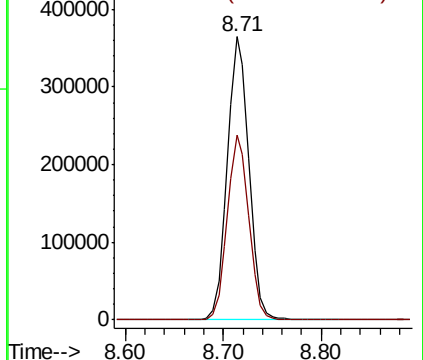
Ion Ratio Lower Upper

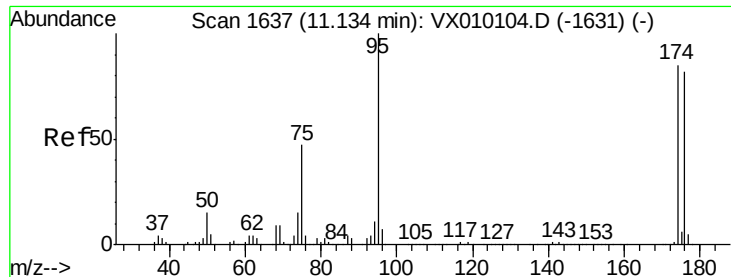
98 100

100 65.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.693 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

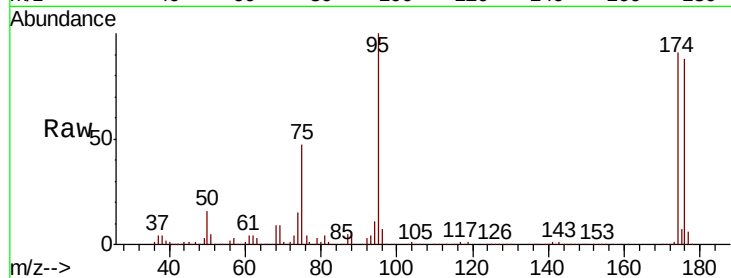
Tot Ion: 95 Resp: 193439

Ion Ratio Lower Upper

95 100

174 95.7 0.0 160.4

176 93.2 0.0 154.6

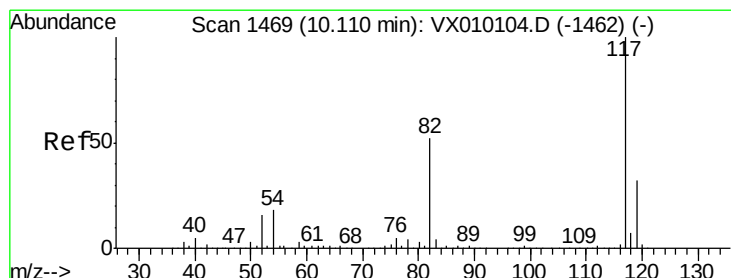
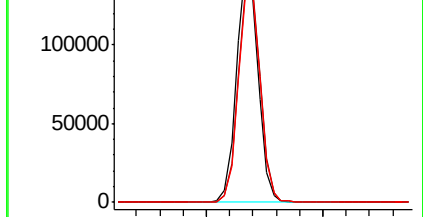
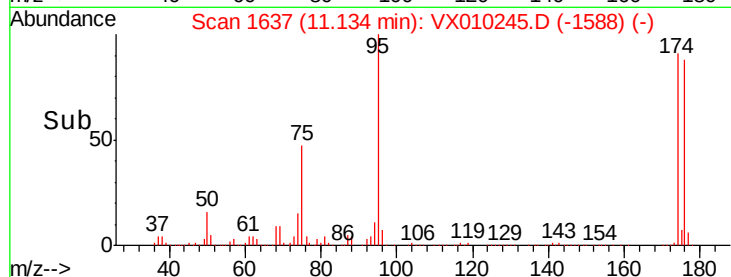


Abundance Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010104.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010104.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

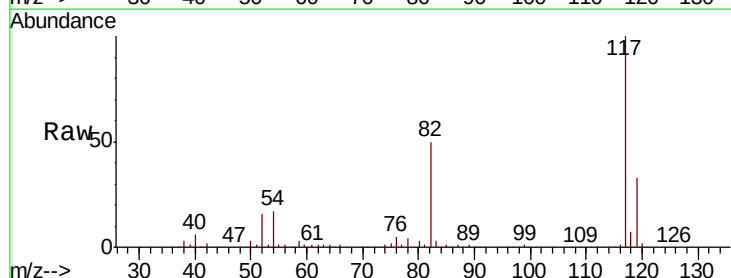
Tgt Ion: 117 Resp: 432109

Ion Ratio Lower Upper

117 100

82 50.0 49.2 73.8

119 32.5 25.2 37.8

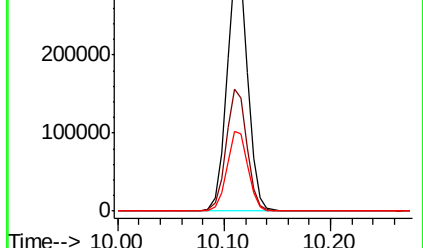
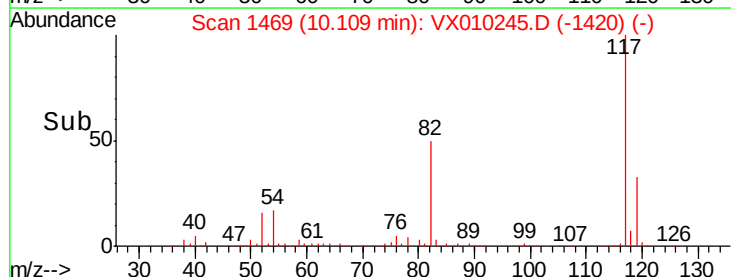


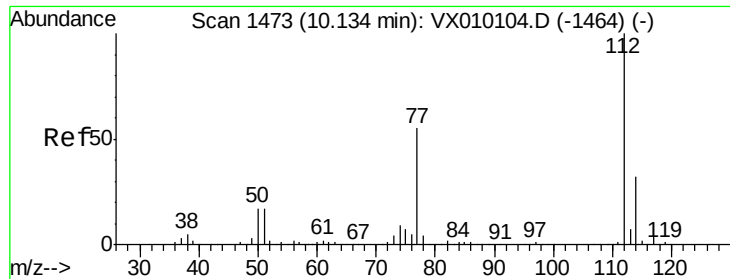
Abundance Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010104.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010104.D (-1462) (-)

Time-->





#65

Chlorobenzene

Concen: 23.718 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. -0.00 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

Instrument :

MSVOA_X

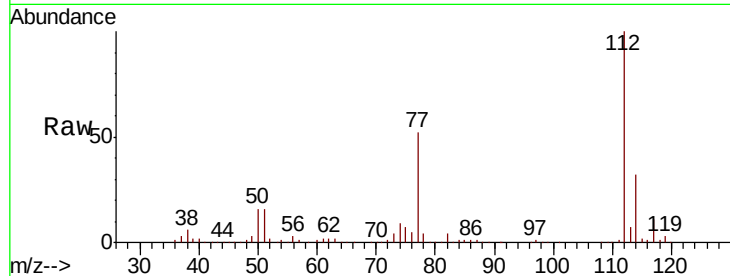
ClientSampled :

Tot Ion:112 Resp: 211524

Ion Ratio Lower Upper

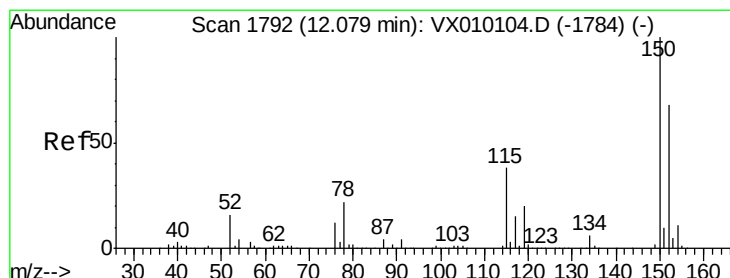
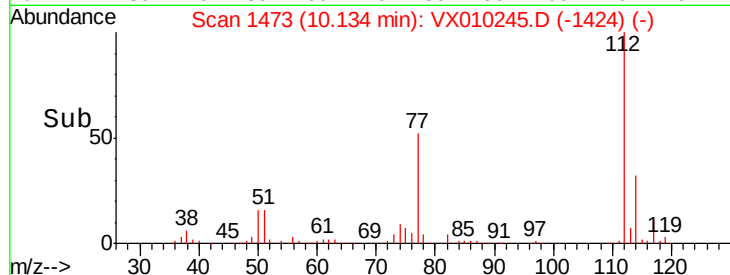
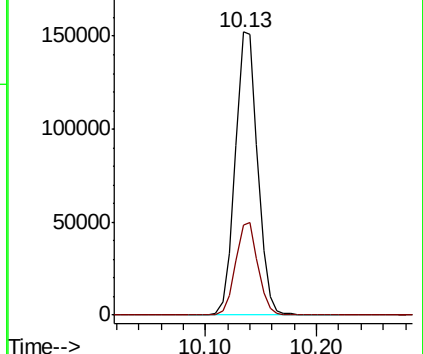
112 100

114 31.8 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX010245.D

Acq: 12 Jun 2019 13:04

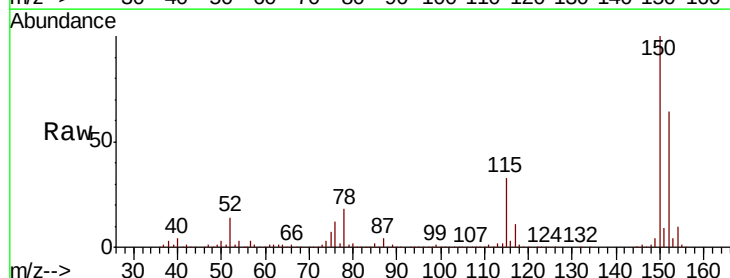
Tgt Ion:152 Resp: 207273

Ion Ratio Lower Upper

152 100

115 53.6 41.4 124.2

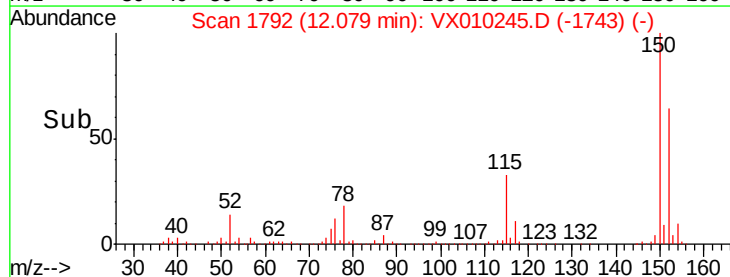
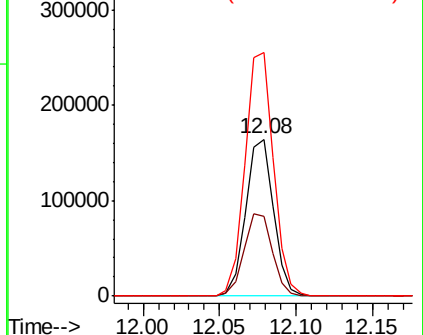
150 158.8 0.0 345.2

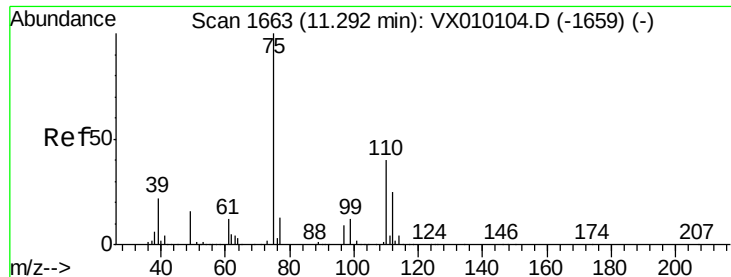


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.259 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

Instrument :

MSVOA_X

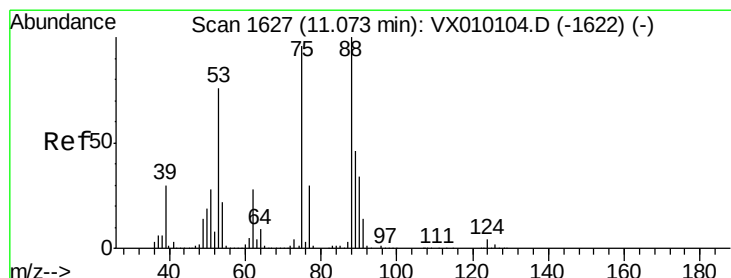
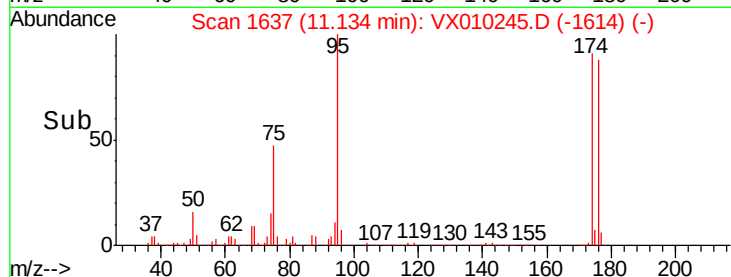
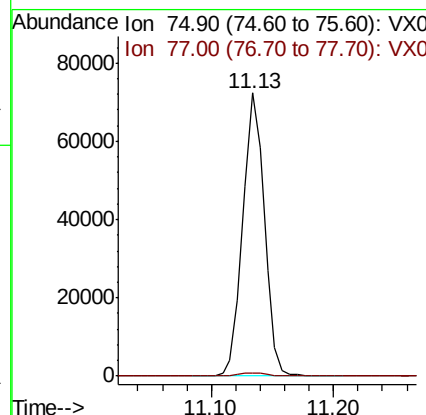
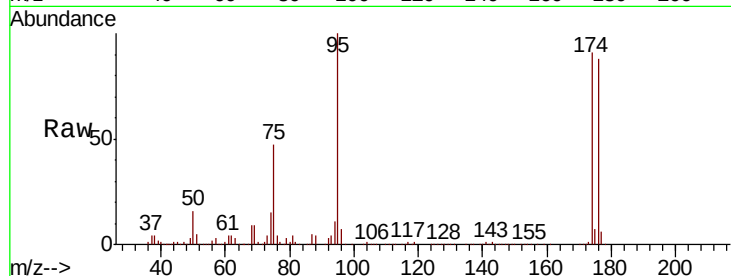
ClientSampleId :

Tot Ion: 75 Resp: 88138

Ion Ratio Lower Upper

75 100

77 1.5 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 46.971 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

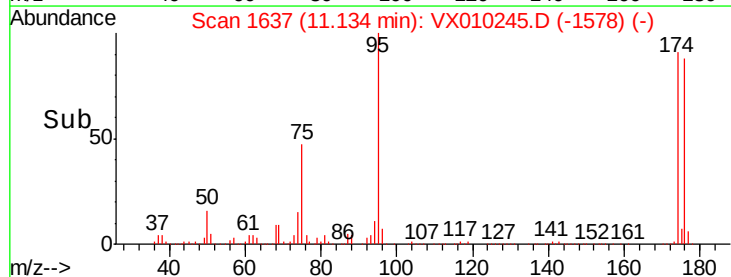
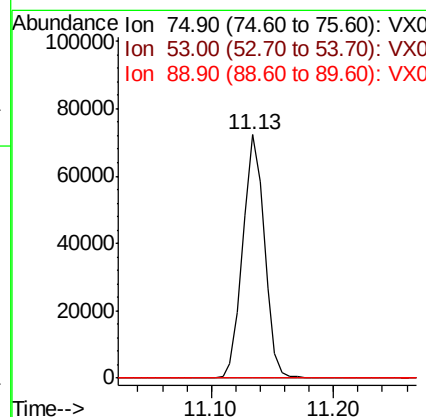
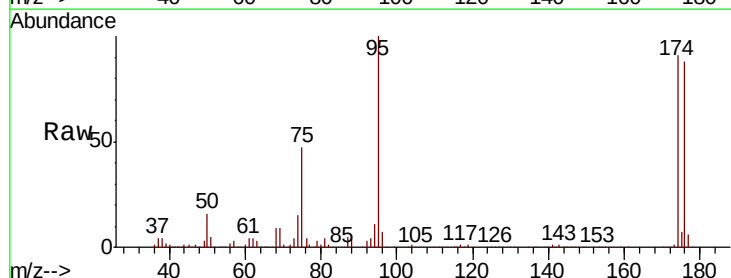
Tgt Ion: 75 Resp: 88138

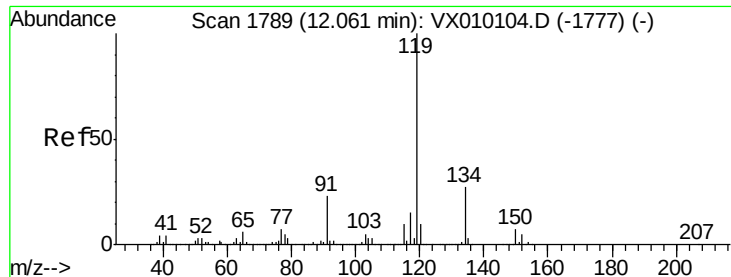
Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#

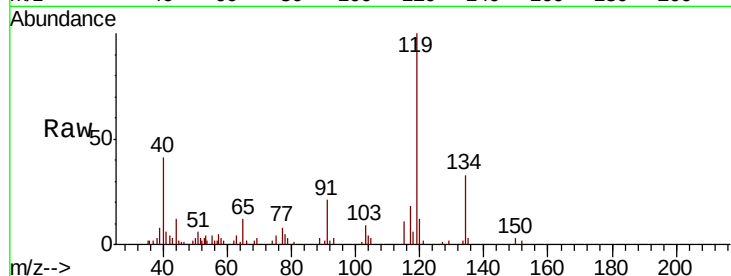




#86
 p-Isopropyltoluene
 Concen: 0.352 ug/l
 RT: 12.23 min Scan# 1817
 Delta R.T. 0.17 min
 Lab File: VX010245.D
 Acq: 12 Jun 2019 13:04

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	30.5	12.9	38.6
91	28.1	11.9	35.9

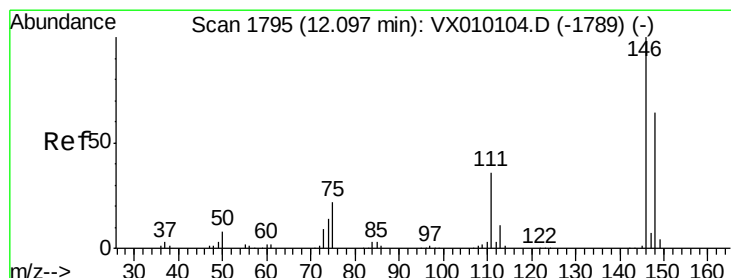
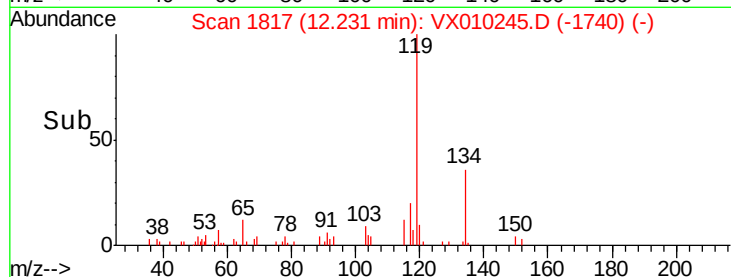
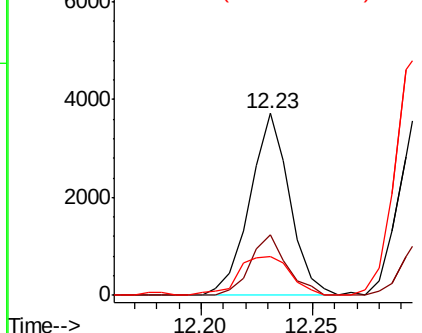


Abundance

Ion 119.00 (118.70 to 119.70): V

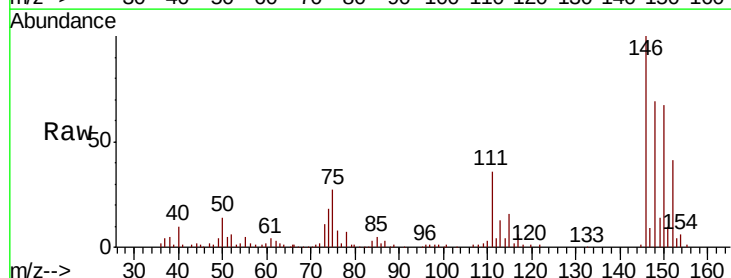
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#88
 1,4-Dichlorobenzene
 Concen: 3.468 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX010245.D
 Acq: 12 Jun 2019 13:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.0	20.0	59.9
148	67.5	32.3	96.9

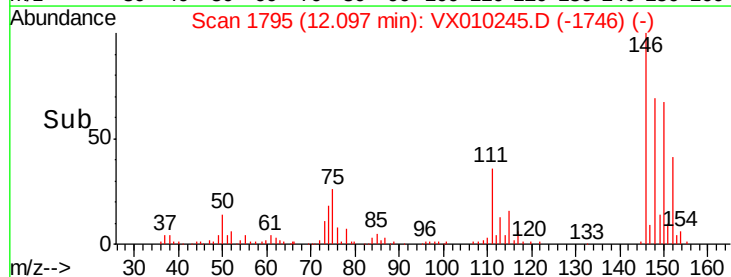
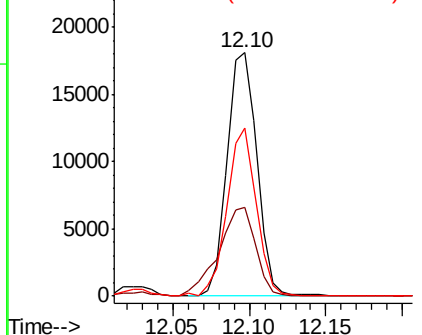


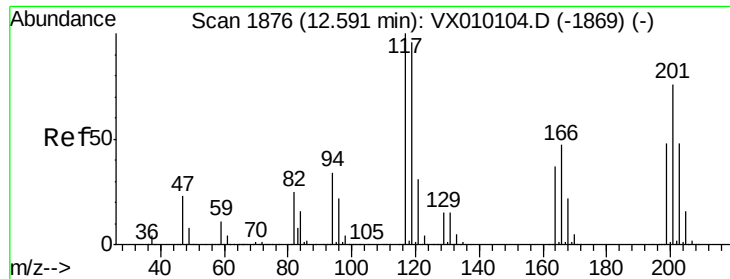
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#90

Hexachloroethane

Concen: 0.871 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.11 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

Instrument :

MSVOA_X

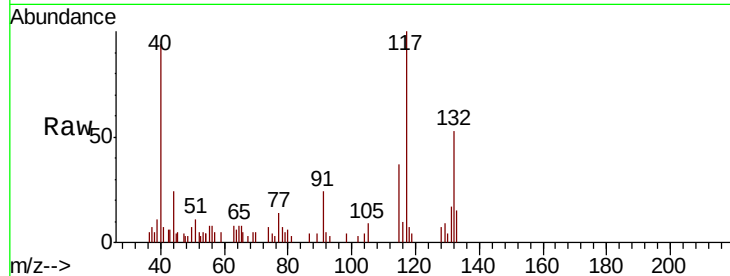
ClientSampleId :

Tot Ion:117 Resp: 2279

Ion Ratio Lower Upper

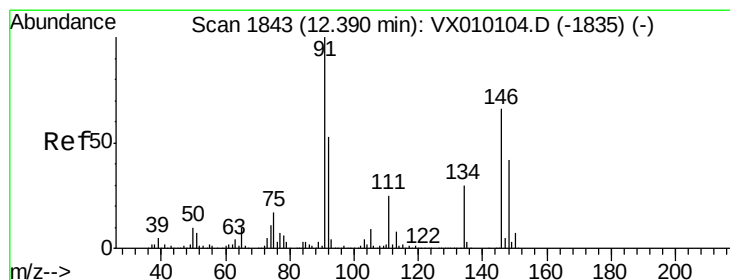
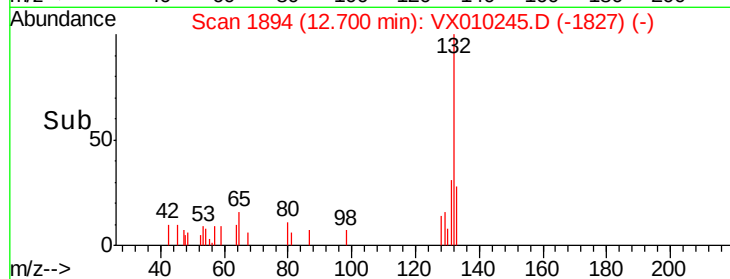
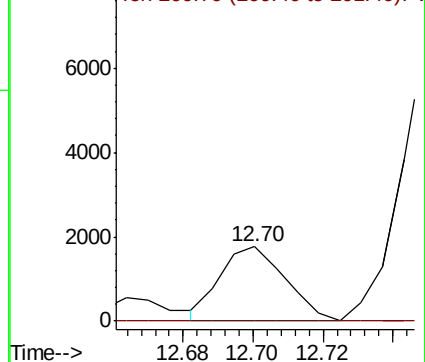
117 100

201 0.0 43.6 130.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.651 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX010245.D

Acq: 12 Jun 2019 13:04

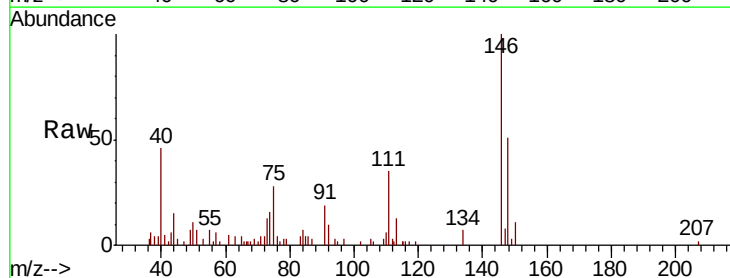
Tgt Ion:146 Resp: 4438

Ion Ratio Lower Upper

146 100

111 38.2 21.1 63.1

148 58.0 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

