

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010251.D
 Acq On : 12 Jun 2019 15:25
 Operator : JC/SP
 Sample : K3309-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 01:27:12 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	311116	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	466972	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	421328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196739	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	140648	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
35) Dibromofluoromethane	5.50	113	143814	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
50) Toluene-d8	8.71	98	546178	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	11.13	95	186181	46.18	ug/l	0.00
Spiked Amount			Recovery	=	92.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	442	0.438	ug/l #	2
6) Chloroethane	1.59	64	330	0.245	ug/l #	87
8) Diethyl Ether	2.19	74	1372	1.003	ug/l	65
11) Tert butyl alcohol	3.02	59	45307	60.901	ug/l #	82
13) Acrolein	2.28	56	454	3.347	ug/l #	14
16) Acetone	2.45	43	1471	1.030	ug/l	94
25) 2-Butanone	4.69	43	4463	2.098	ug/l #	88
26) 2,2-Dichloropropane	4.69	77	6246	1.398	ug/l #	53
29) Tetrahydrofuran	5.14	42	3341	2.499	ug/l #	70
31) Cyclohexane	5.66	56	5284	1.196	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18680	4.903	ug/l #	52
38) Carbon Tetrachloride	5.66	117	25676	5.954	ug/l #	16
40) Benzene	6.15	78	8617	0.731	ug/l	96
43) Isopropyl Acetate	6.45	43	1652	0.249	ug/l #	76
49) 1,4-Dioxane	7.74	88	2843	32.170	ug/l #	72
59) 2-Hexanone	9.55	43	6240	1.977	ug/l #	1
65) Chlorobenzene	10.14	112	32144	3.696	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	85660	21.768	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	85660	48.095	ug/l #	10
88) 1,4-Dichlorobenzene	12.09	146	1406	0.210	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010251.D

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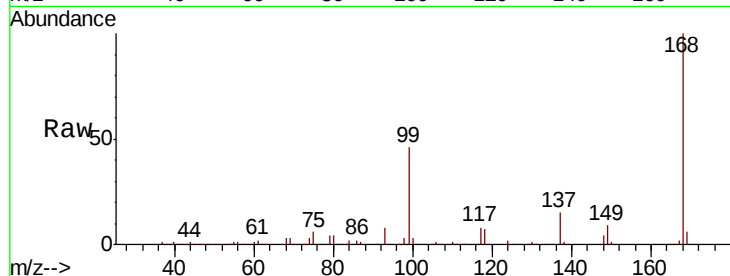
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 311116

Ion Ratio Lower Upper

168 100

99 46.2 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

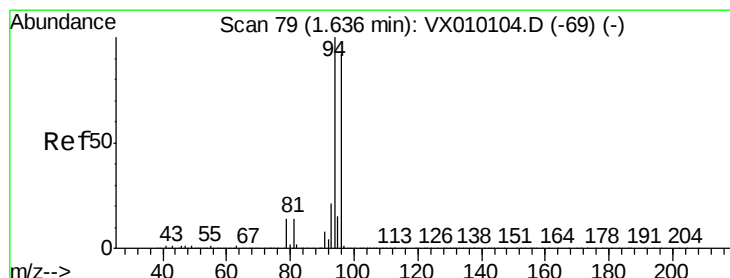
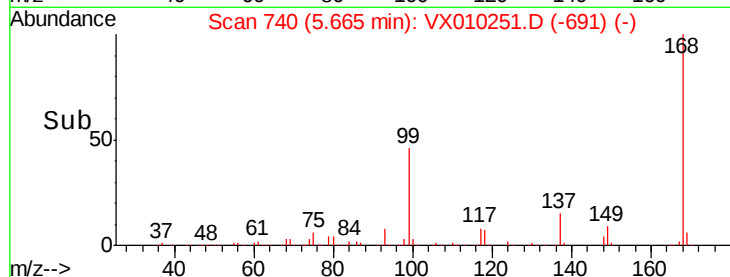
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.438 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010251.D

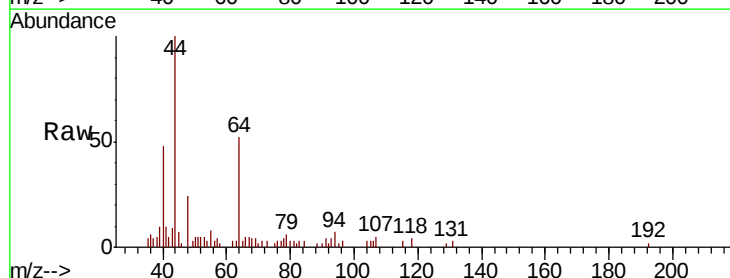
Acq: 12 Jun 2019 15:25

Tgt Ion: 94 Resp: 442

Ion Ratio Lower Upper

94 100

96 0.0 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

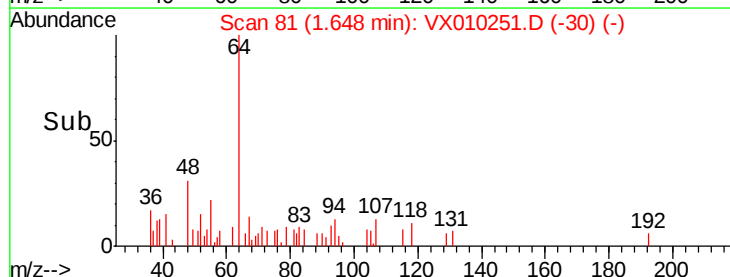
150

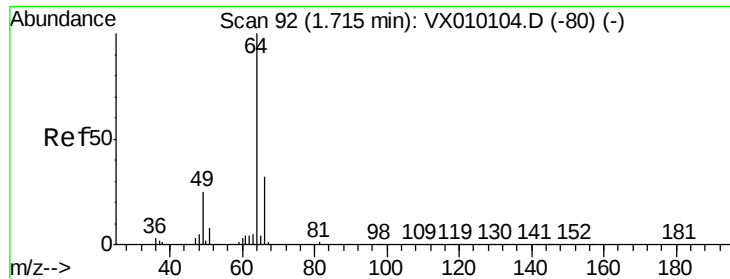
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.245 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

Instrument :

MSVOA_X

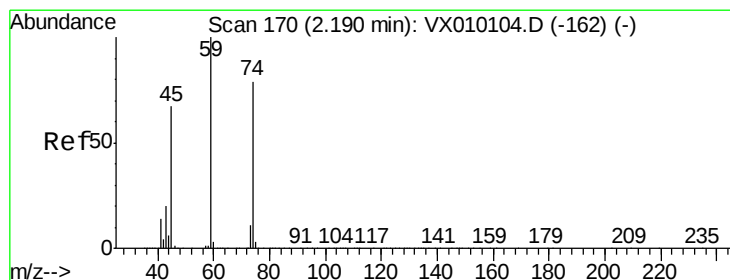
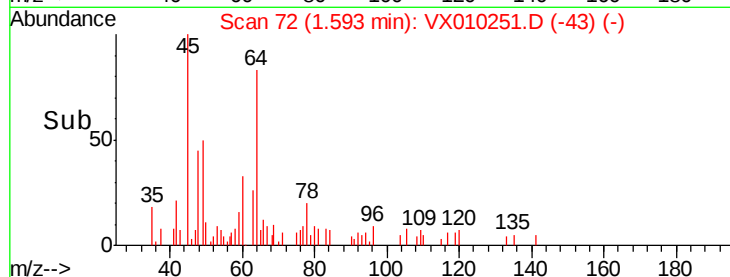
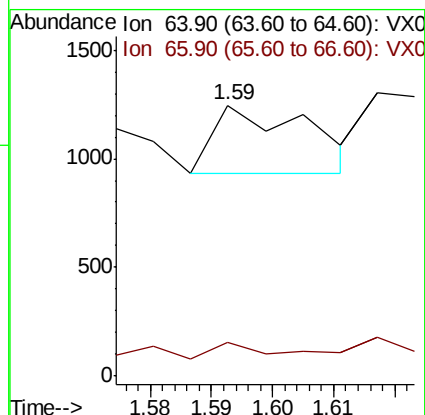
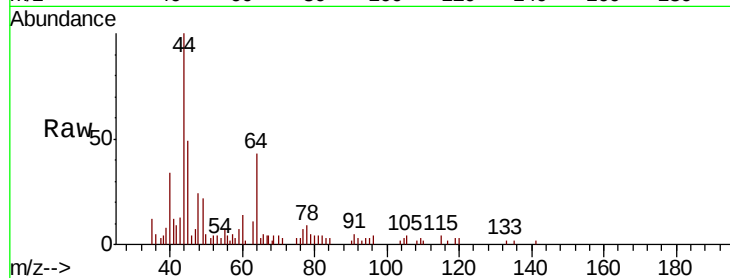
ClientSampled :

Tot Ion: 64 Resp: 330

Ion Ratio Lower Upper

64 100

66 24.0 25.1 37.7#



#8

Diethyl Ether

Concen: 1.003 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX010251.D

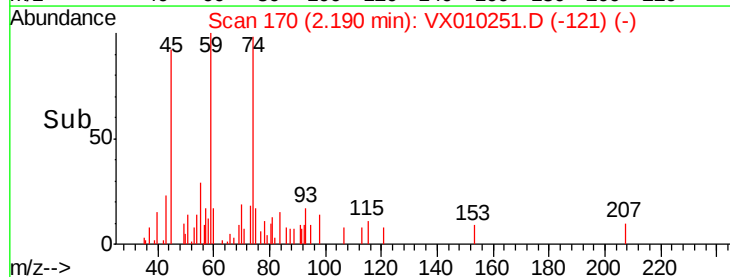
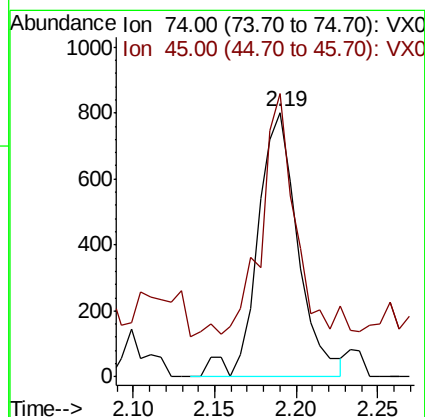
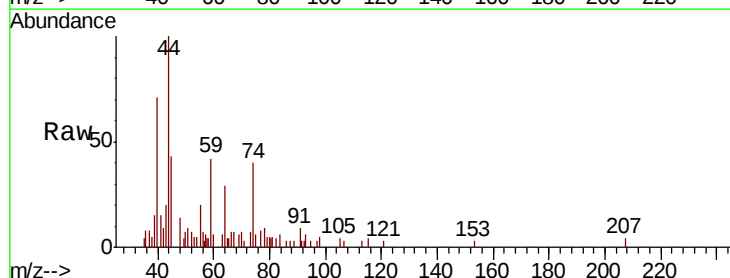
Acq: 12 Jun 2019 15:25

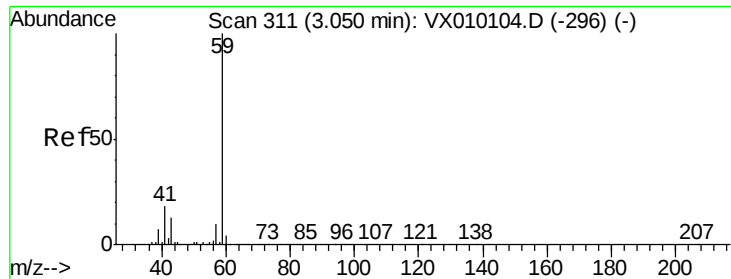
Tgt Ion: 74 Resp: 1372

Ion Ratio Lower Upper

74 100

45 74.4 56.1 168.3

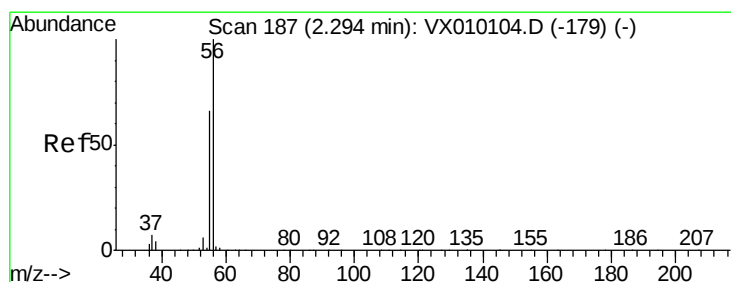
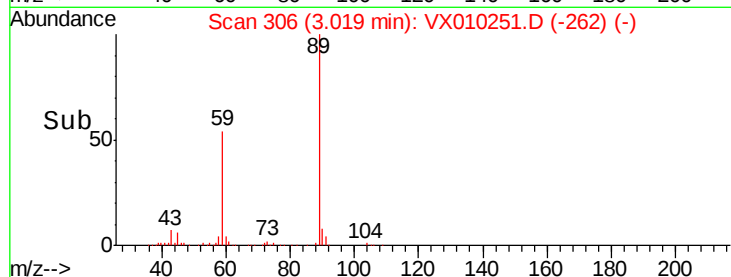
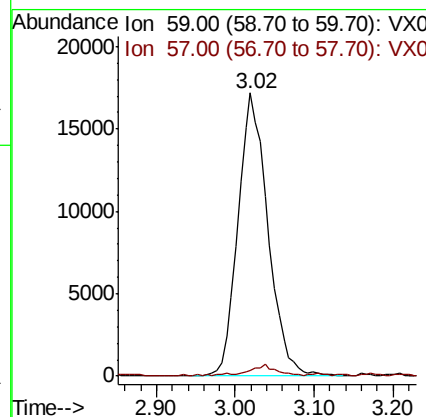
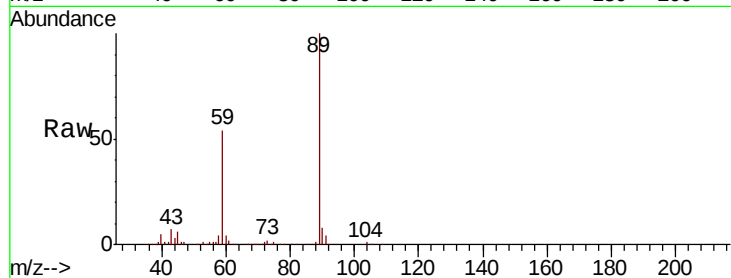




#11
Tert butyl alcohol
Concen: 60.901 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

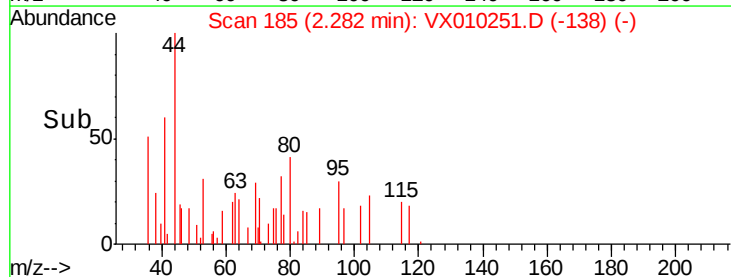
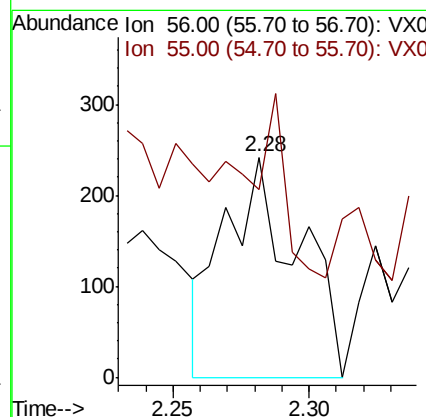
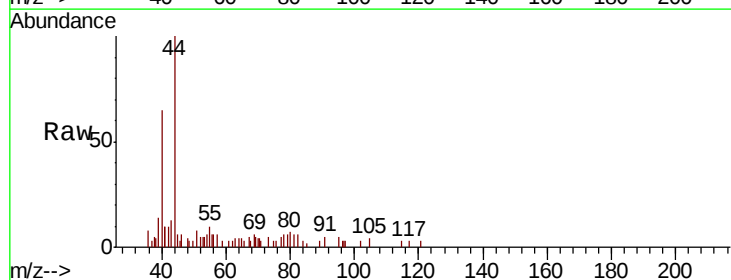
Instrument :
MSVOA_X
ClientSampleId :

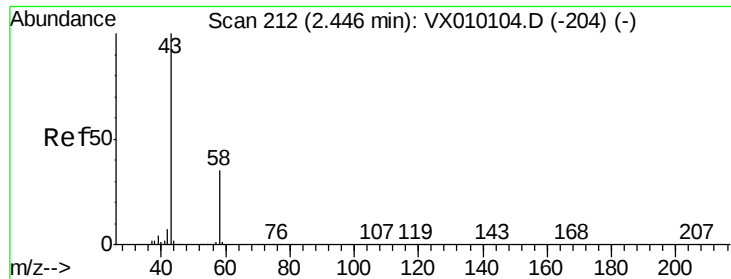
Tot Ion: 59 Resp: 45307
Ion Ratio Lower Upper
59 100
57 3.6 8.2 12.2#



#13
Acrolein
Concen: 3.347 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

Tgt Ion: 56 Resp: 454
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 1.030 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

Instrument :

MSVOA_X

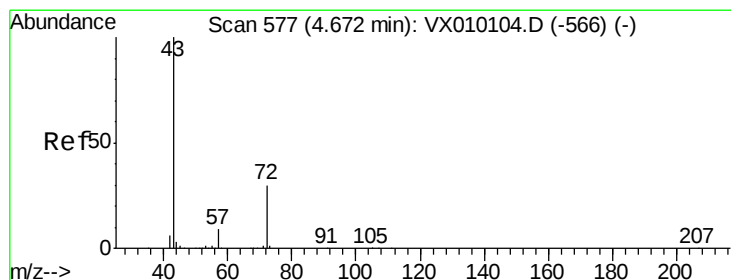
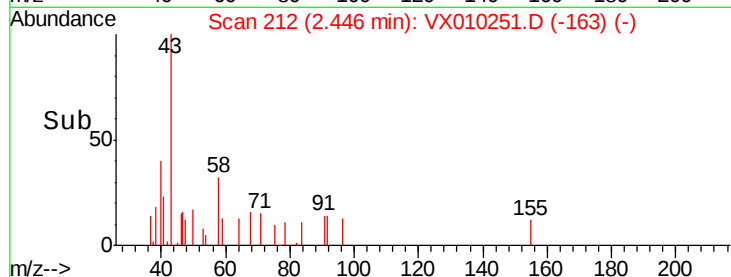
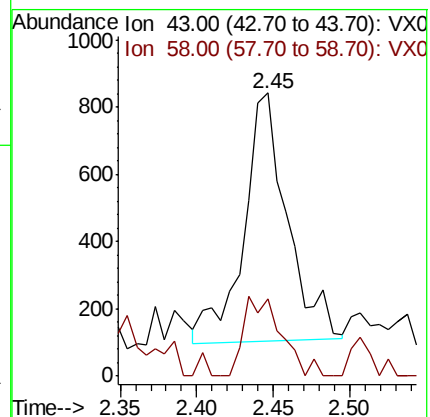
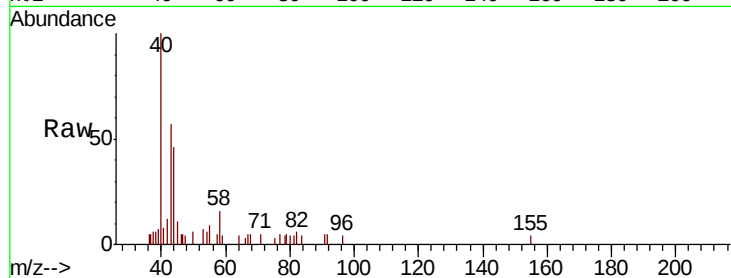
ClientSampleId :

Tot Ion: 43 Resp: 1471

Ion Ratio Lower Upper

43 100

58 32.1 23.2 34.8



#25

2-Butanone

Concen: 2.098 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX010251.D

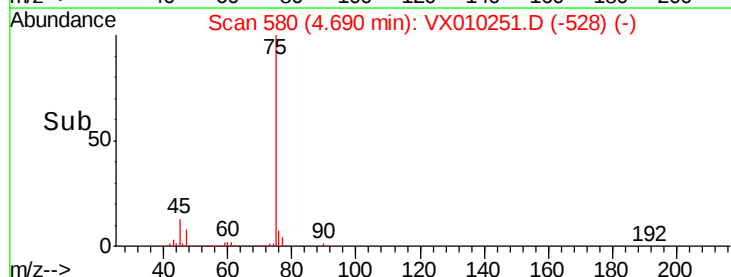
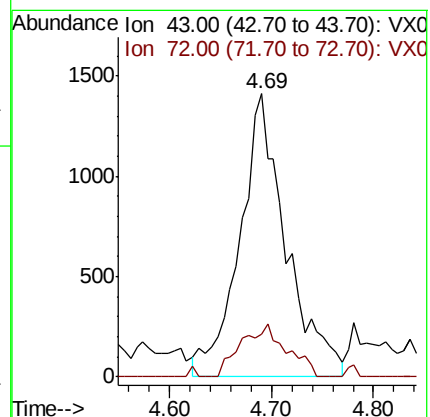
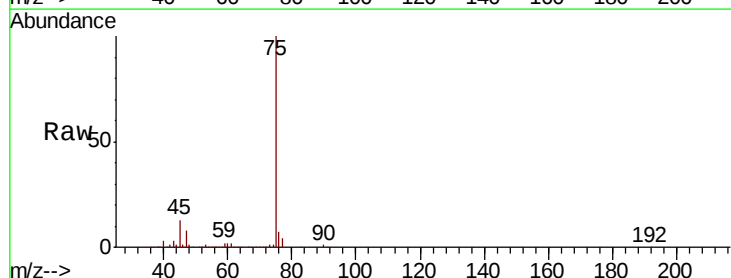
Acq: 12 Jun 2019 15:25

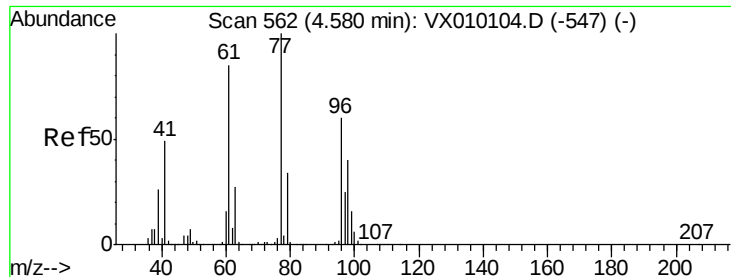
Tgt Ion: 43 Resp: 4463

Ion Ratio Lower Upper

43 100

72 16.0 17.5 26.3#





#26

2,2-Dichloropropane

Concen: 1.398 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.11 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

Instrument :

MSVOA_X

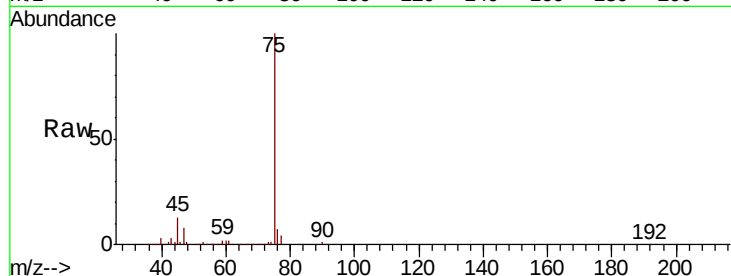
ClientSampled :

Tot Ion: 77 Resp: 6246

Ion Ratio Lower Upper

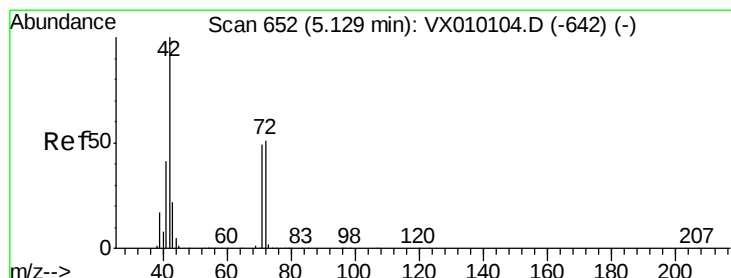
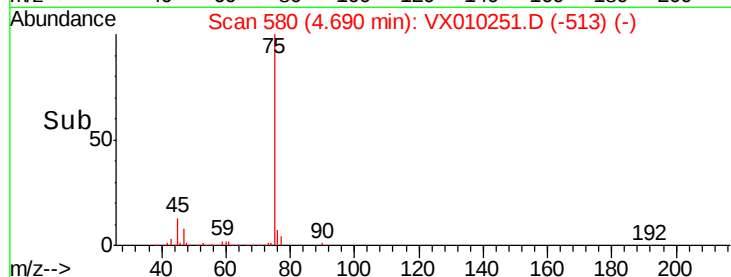
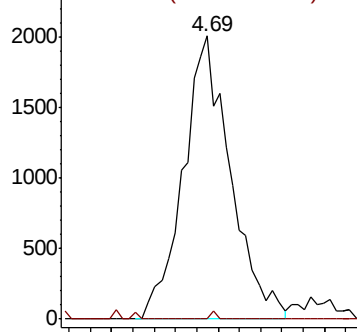
77 100

97 0.3 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#29

Tetrahydrofuran

Concen: 2.499 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

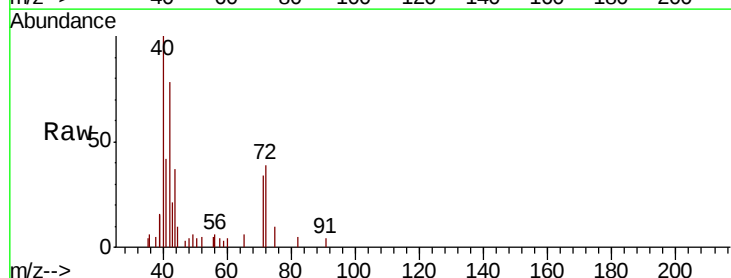
Tgt Ion: 42 Resp: 3341

Ion Ratio Lower Upper

42 100

72 54.2 29.2 43.8#

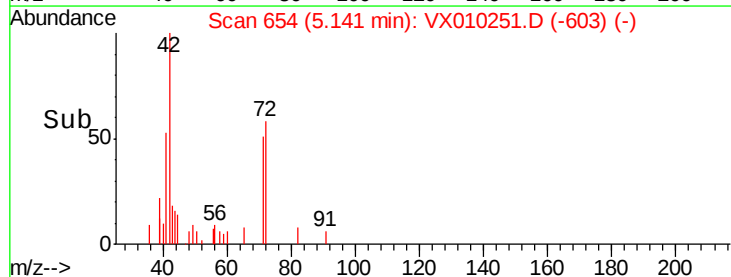
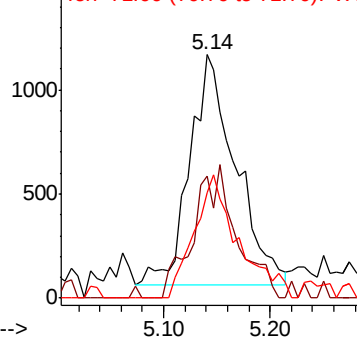
71 51.3 27.6 41.4#

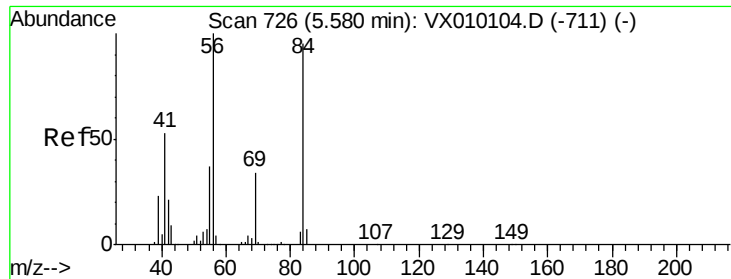


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

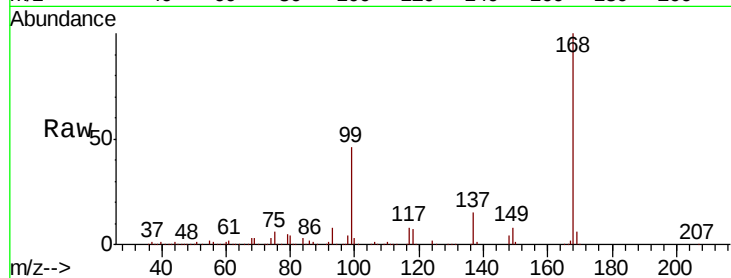




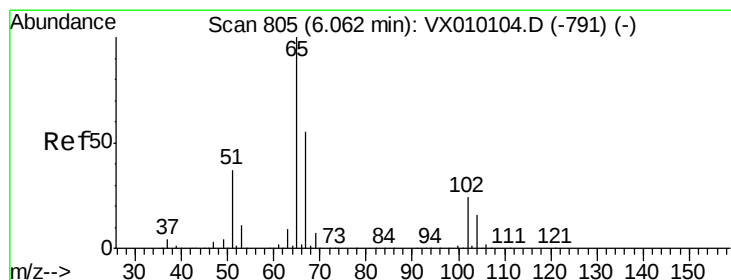
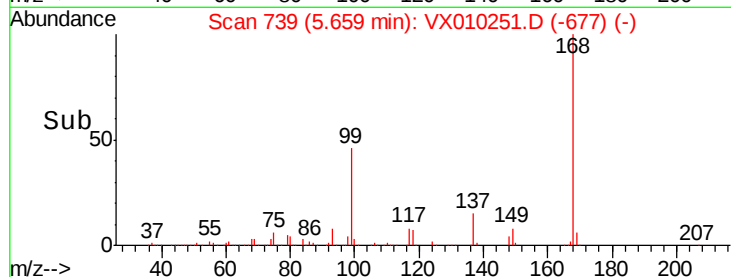
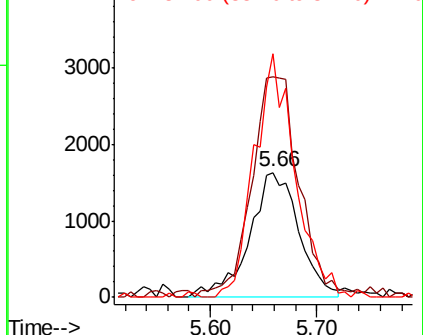
#31
Cyclohexane
Concen: 1.196 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 5284
Ion Ratio Lower Upper
56 100
69 170.7 21.6 32.4#
84 191.5 56.8 85.2#

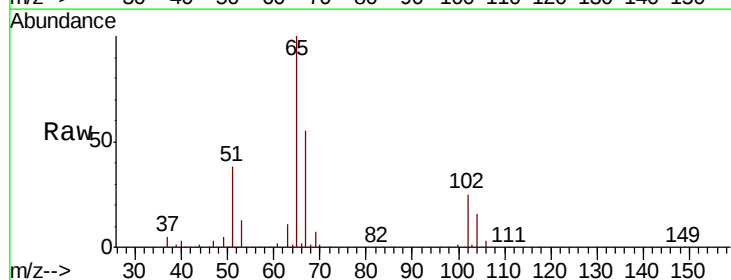


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

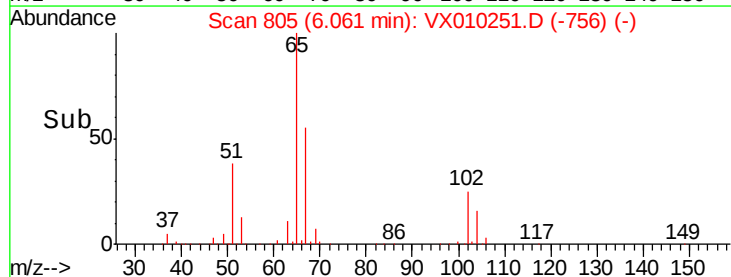
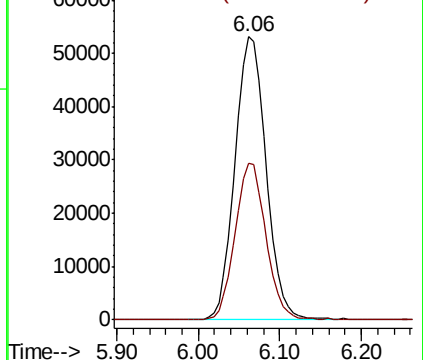


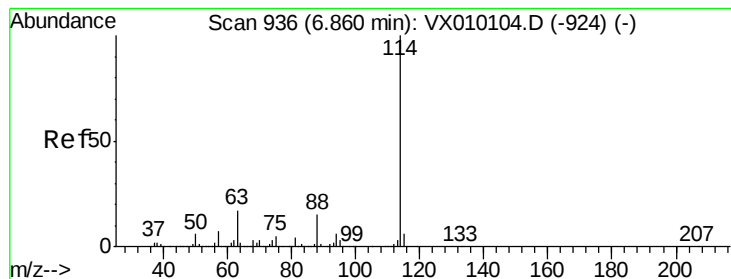
#33
1,2-Dichloroethane-d4
Concen: 46.314 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

Tgt Ion: 65 Resp: 140648
Ion Ratio Lower Upper
65 100
67 54.9 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

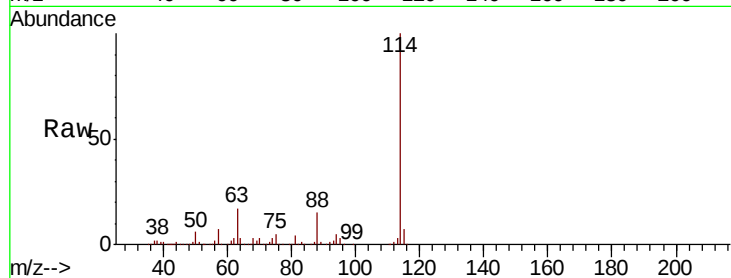
Tot Ion:114 Resp: 466972

Ion Ratio Lower Upper

114 100

63 17.0 0.0 47.4

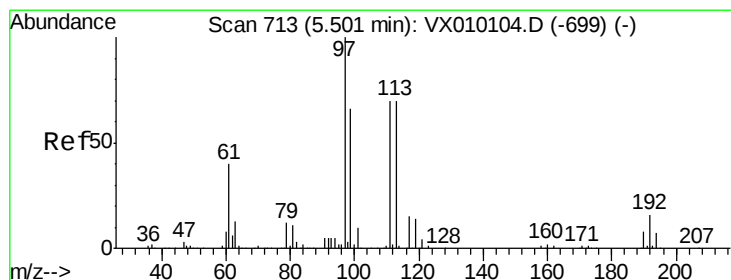
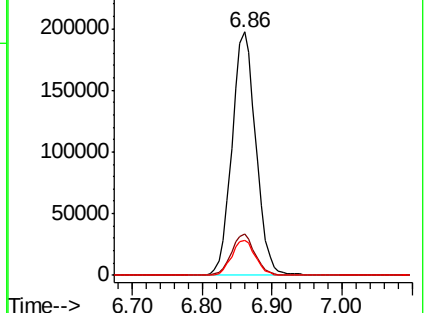
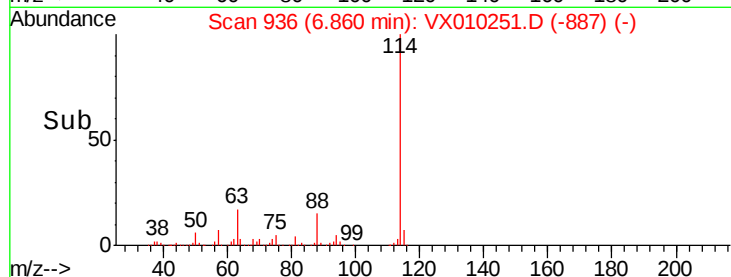
88 14.5 0.0 33.0



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: 49.929 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

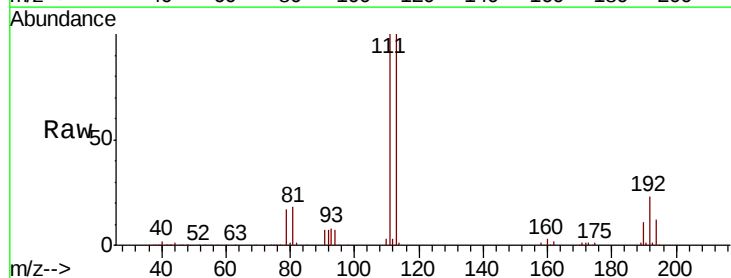
Tgt Ion:113 Resp: 143814

Ion Ratio Lower Upper

113 100

111 101.0 82.2 123.2

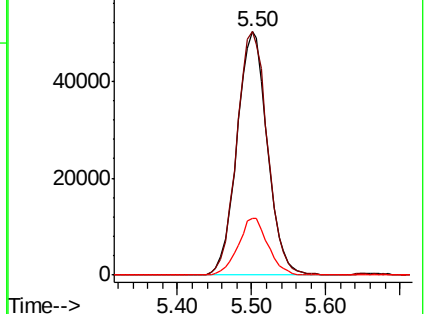
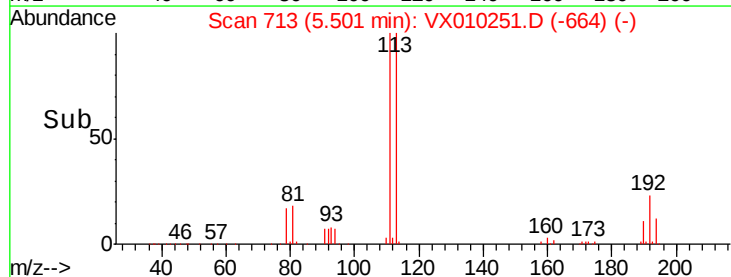
192 23.0 17.1 25.7

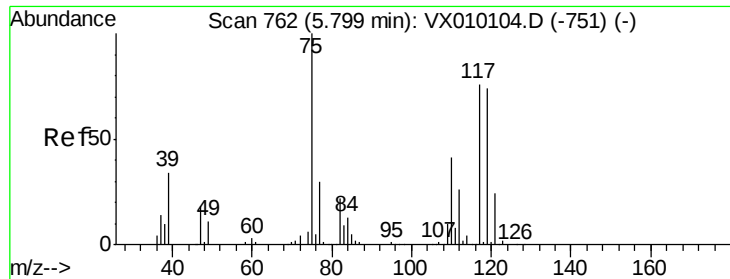


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

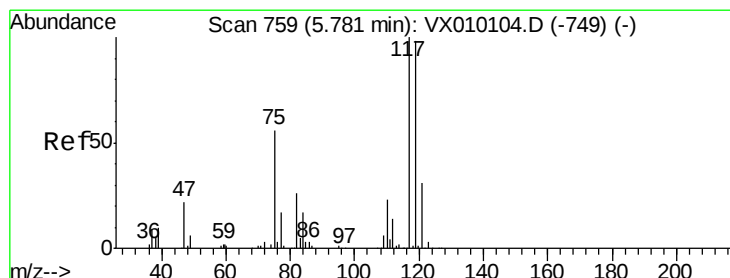
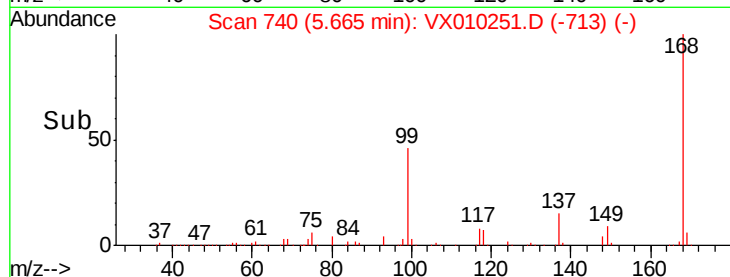
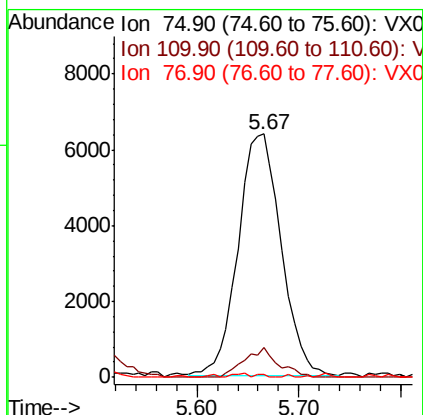
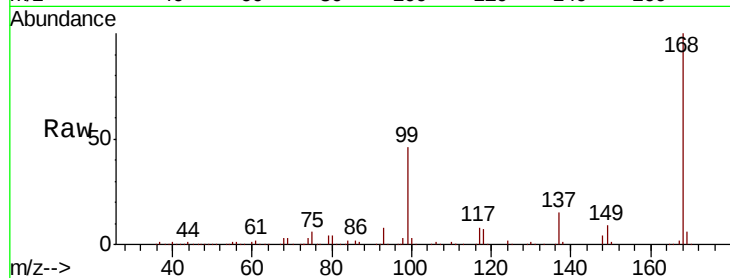




#36
 1,1-Dichloropropene
 Concen: 4.903 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX010251.D
 Acq: 12 Jun 2019 15:25

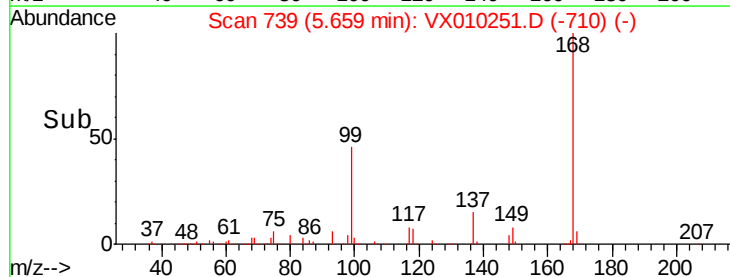
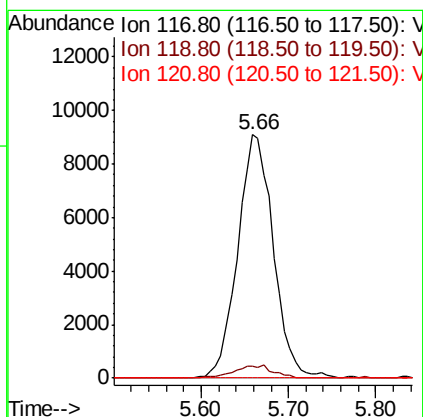
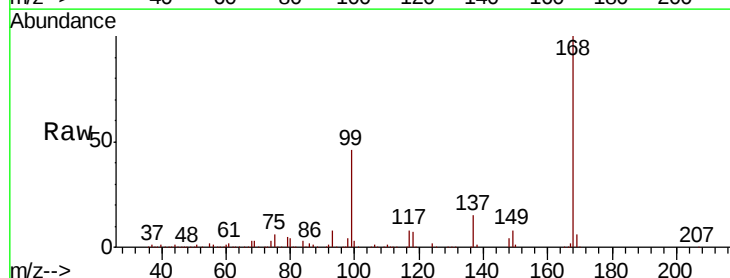
Instrument :
 MSVOA_X
 ClientSampleId :

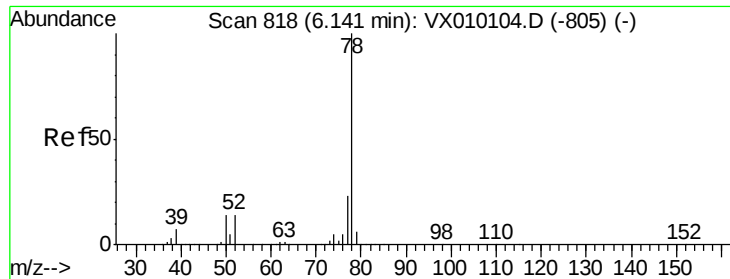
Tot Ion: 75 Resp: 18680
 Ion Ratio Lower Upper
 75 100
 110 9.7 16.7 50.1#
 77 0.5 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.954 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX010251.D
 Acq: 12 Jun 2019 15:25

Tgt Ion: 117 Resp: 25676
 Ion Ratio Lower Upper
 117 100
 119 5.0 77.3 115.9#
 121 0.0 25.4 38.0#





#40

Benzene

Concen: 0.731 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

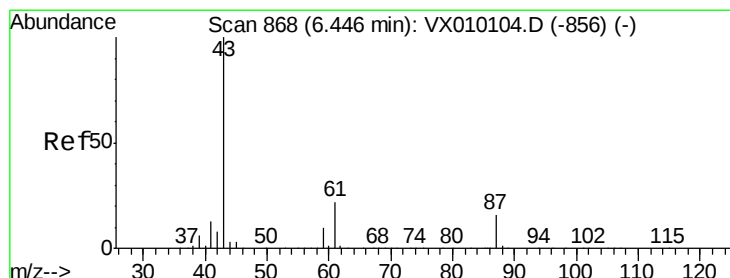
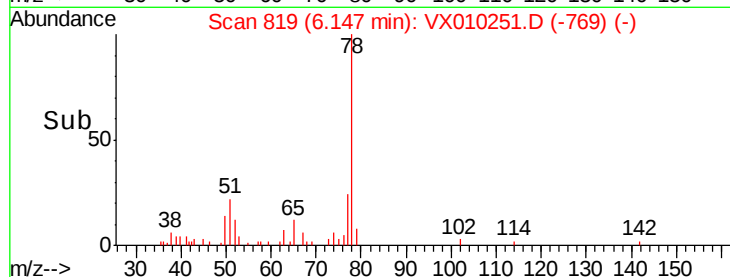
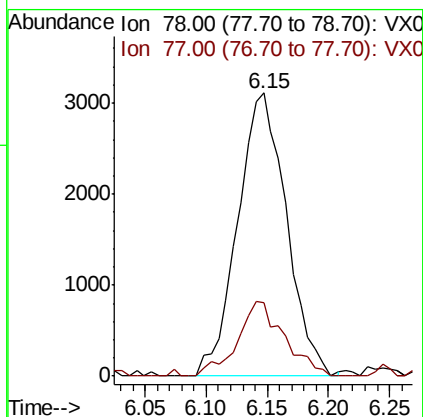
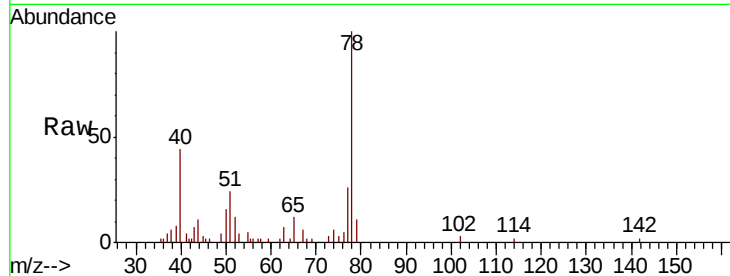
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 78 Resp: 8617

Ion Ratio Lower Upper

78 100

77 26.1 19.2 28.8



#43

Isopropyl Acetate

Concen: 0.249 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

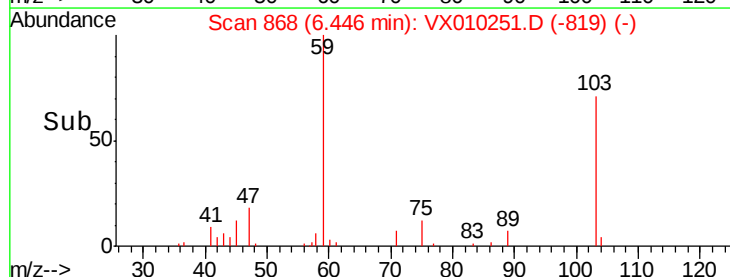
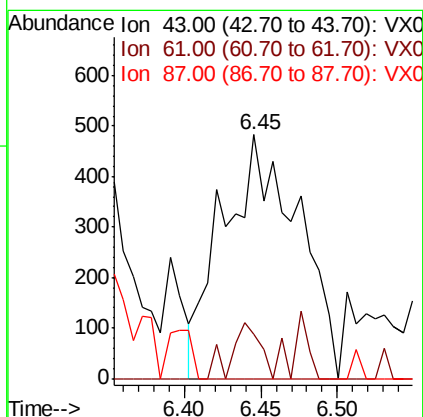
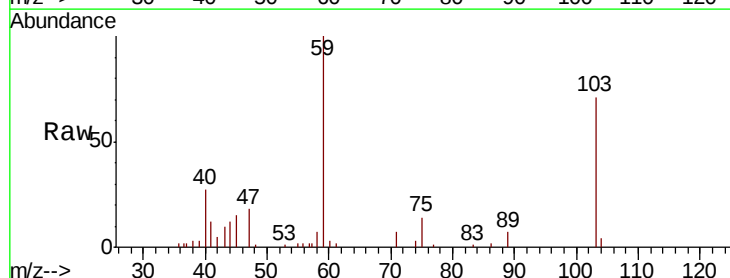
Tgt Ion: 43 Resp: 1652

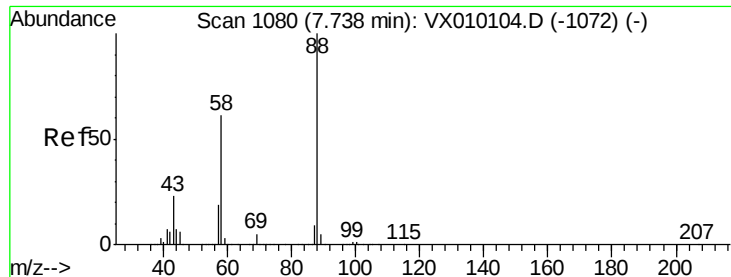
Ion Ratio Lower Upper

43 100

61 8.7 14.6 21.8#

87 0.0 8.7 13.1#

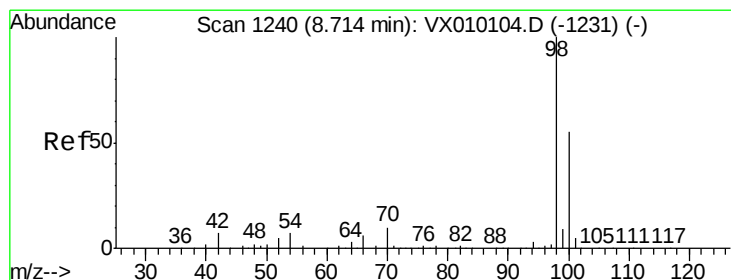
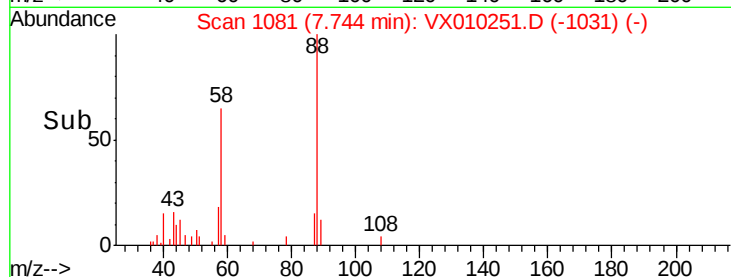
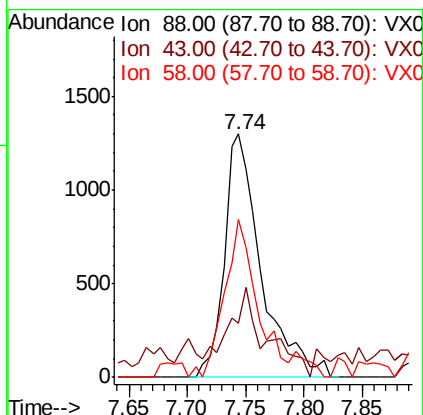
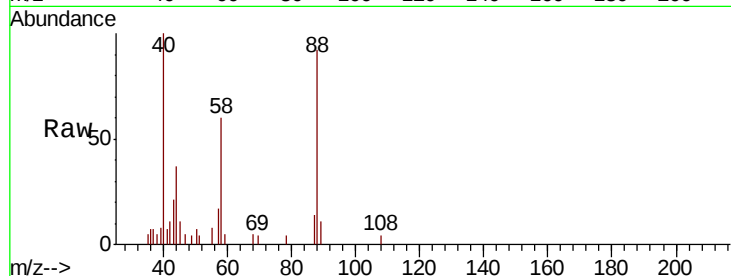




#49
1,4-Dioxane
Concen: 32.170 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

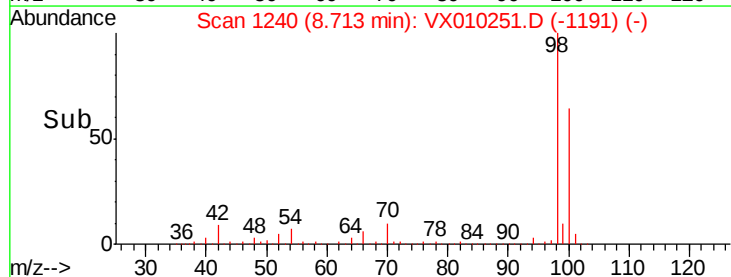
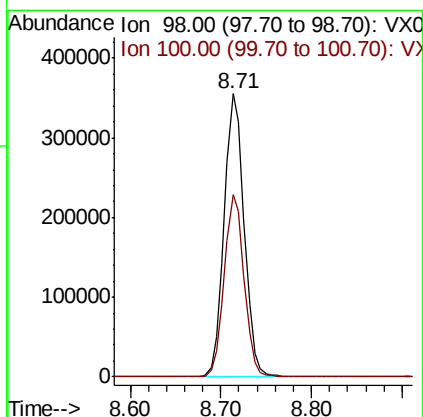
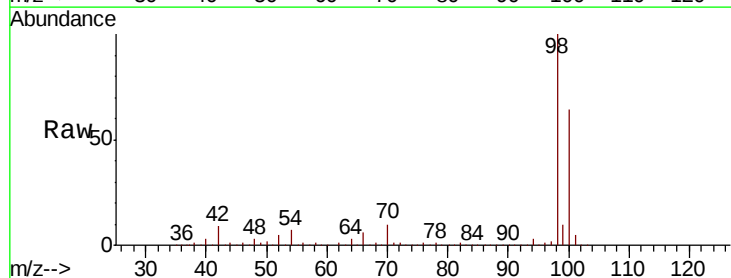
Instrument :
MSVOA_X
ClientSampleId :

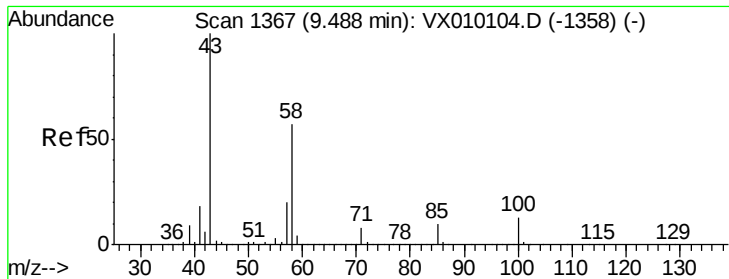
Tot Ion: 88 Resp: 2843
Ion Ratio Lower Upper
88 100
43 17.9 30.2 45.4#
58 57.3 64.0 96.0#



#50
Toluene-d8
Concen: 50.594 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

Tgt Ion: 98 Resp: 546178
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3

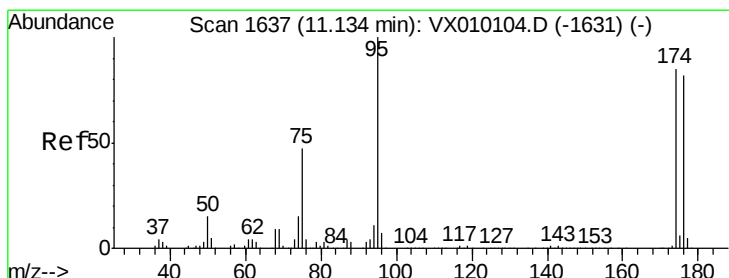
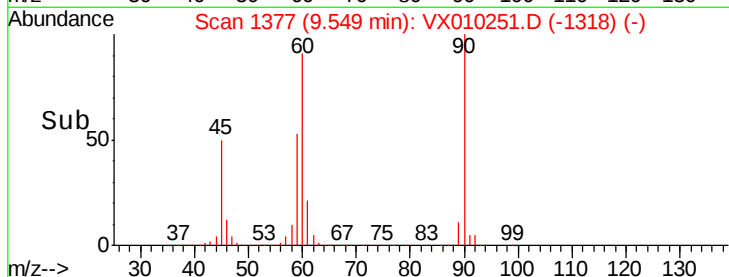
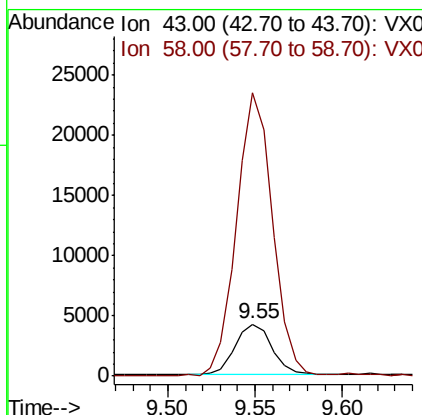
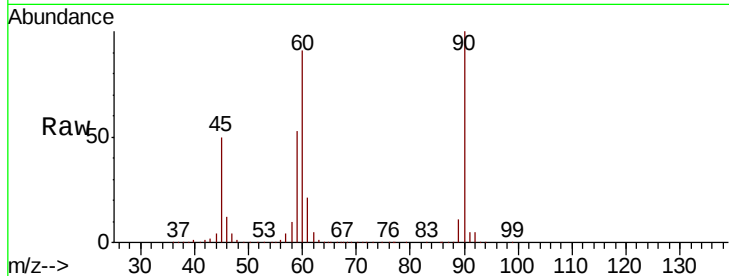




#59
2-Hexanone
Concen: 1.977 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.06 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

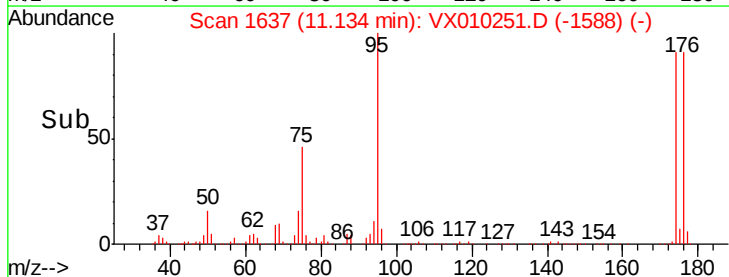
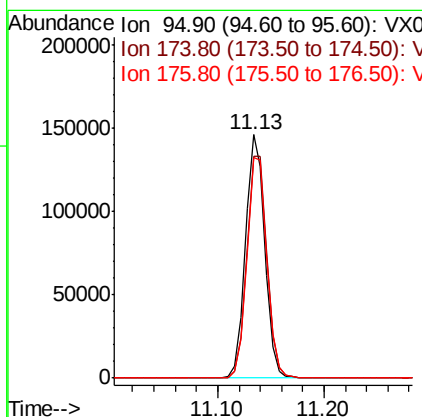
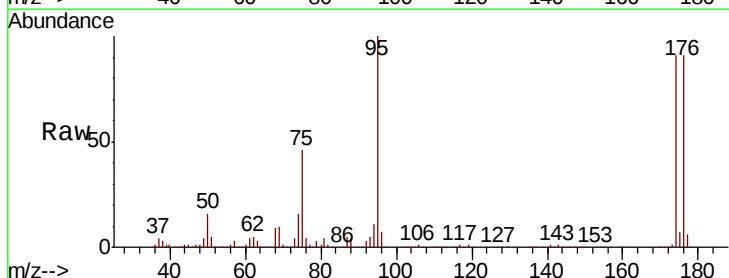
Instrument :
MSVOA_X
ClientSampled :

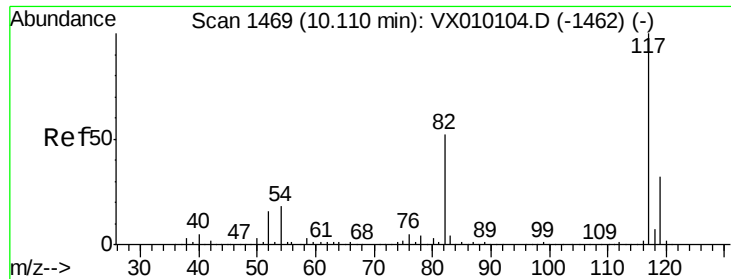
Tot Ion: 43 Resp: 6240
Ion Ratio Lower Upper
43 100
58 542.8 25.1 75.3#



#62
4-Bromofluorobenzene
Concen: 46.181 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

Tgt Ion: 95 Resp: 186181
Ion Ratio Lower Upper
95 100
174 95.6 0.0 160.4
176 93.7 0.0 154.6

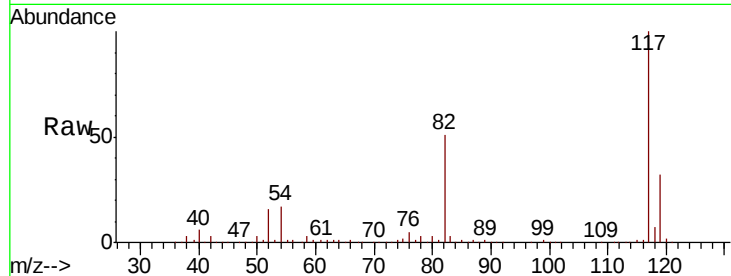




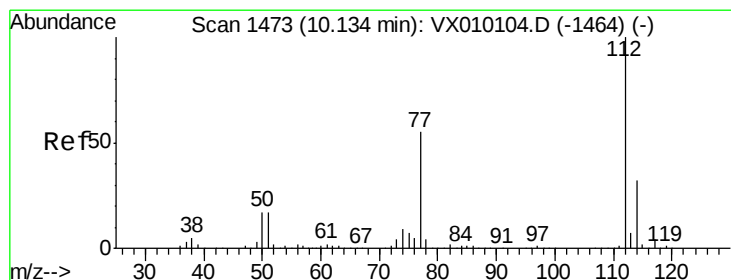
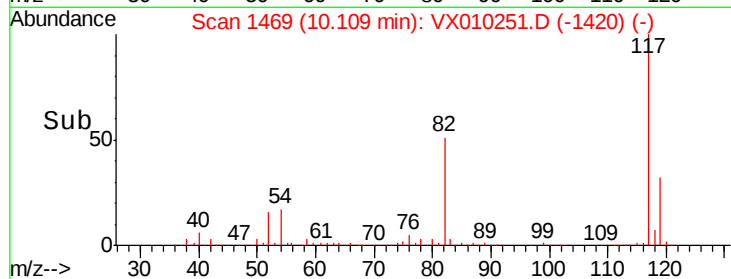
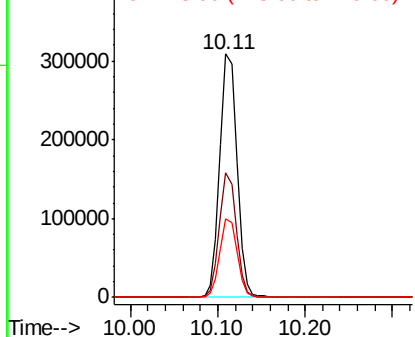
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 421328
Ion Ratio Lower Upper
117 100
82 51.2 49.2 73.8
119 32.0 25.2 37.8

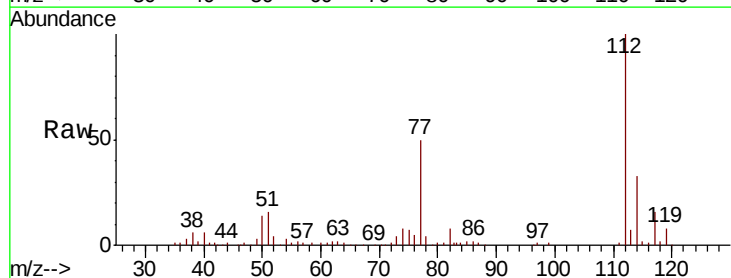


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

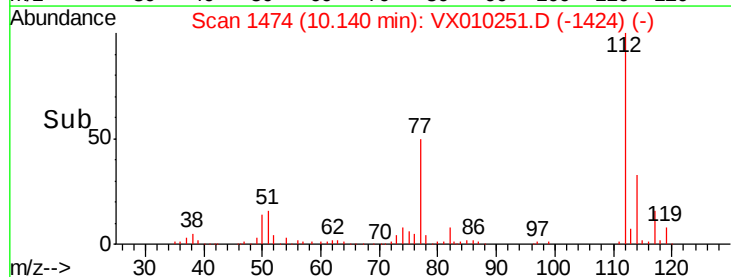
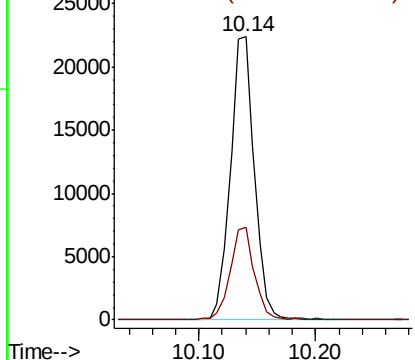


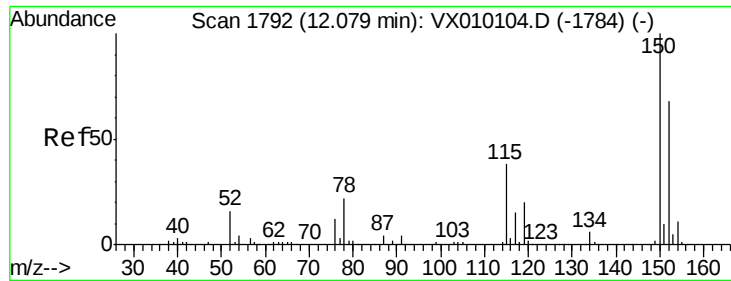
#65
Chlorobenzene
Concen: 3.696 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010251.D
Acq: 12 Jun 2019 15:25

Tgt Ion:112 Resp: 32144
Ion Ratio Lower Upper
112 100
114 32.5 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: VX010251.D

Acq: 12 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

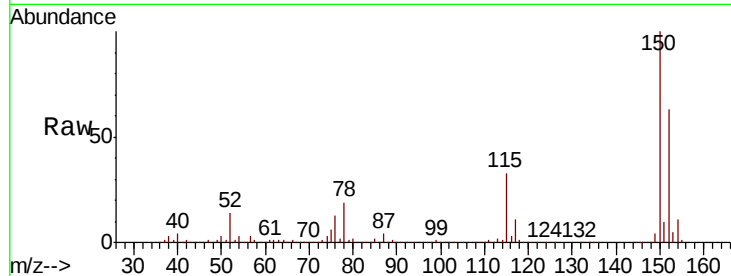
Tot Ion:152 Resp: 196739

Ion Ratio Lower Upper

152 100

115 54.2 41.4 124.2

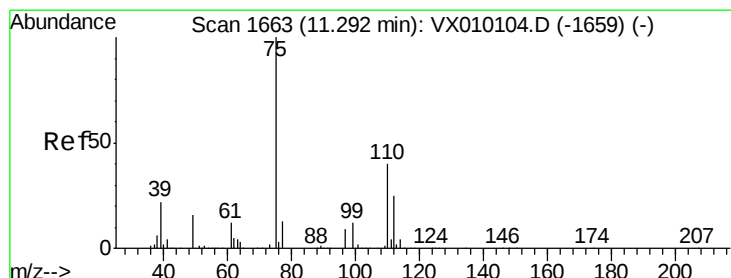
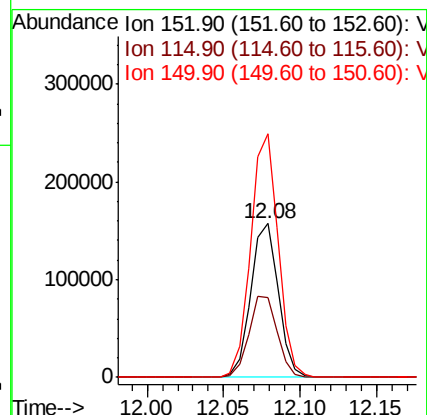
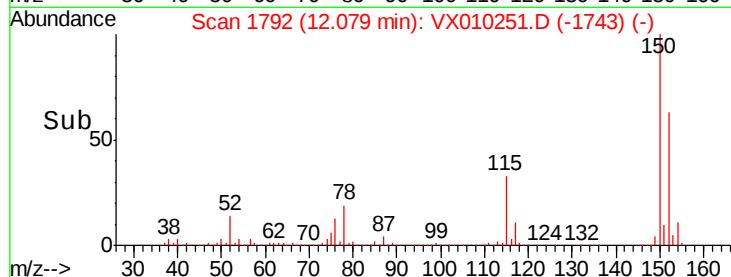
150 157.9 0.0 345.2



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: 21.768 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010251.D

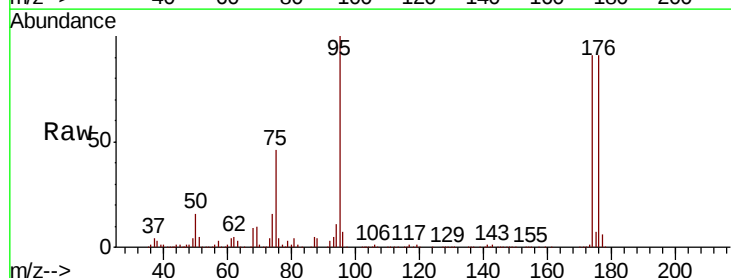
Acq: 12 Jun 2019 15:25

Tgt Ion: 75 Resp: 85660

Ion Ratio Lower Upper

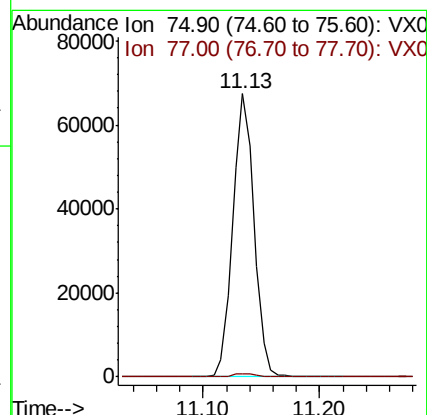
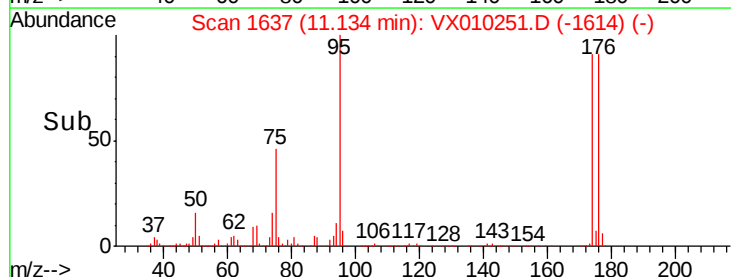
75 100

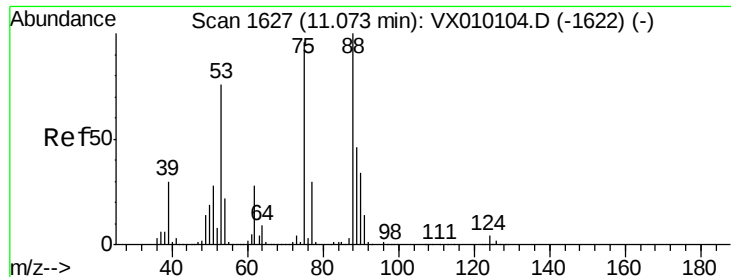
77 1.4 22.1 66.1#



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: 48.095 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

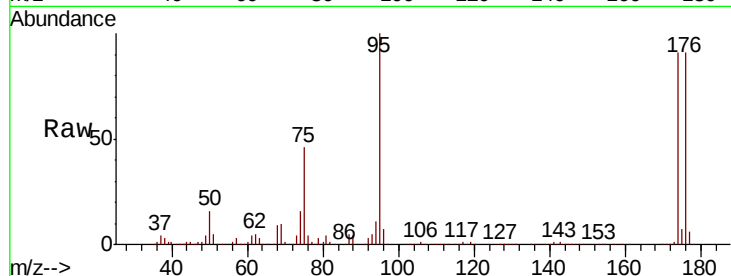
Tot Ion: 75 Resp: 85660

Ion Ratio Lower Upper

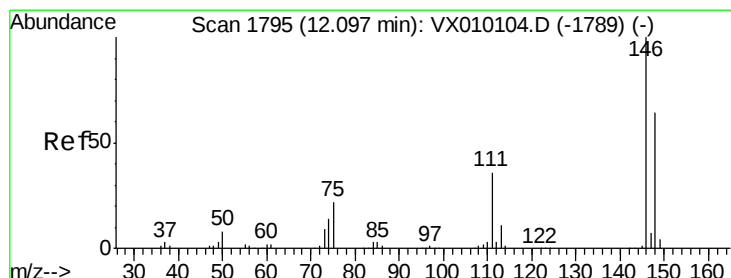
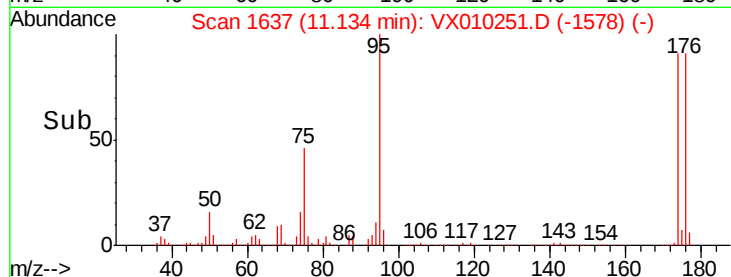
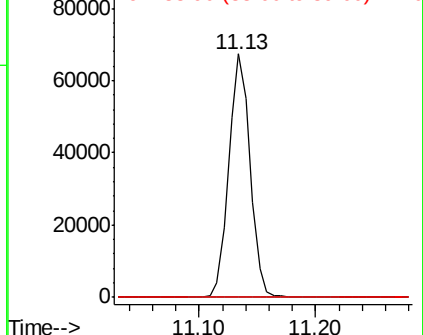
75 100

53 0.1 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



#88

1,4-Dichlorobenzene

Concen: 0.210 ug/l

RT: 12.09 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VX010251.D

Acq: 12 Jun 2019 15:25

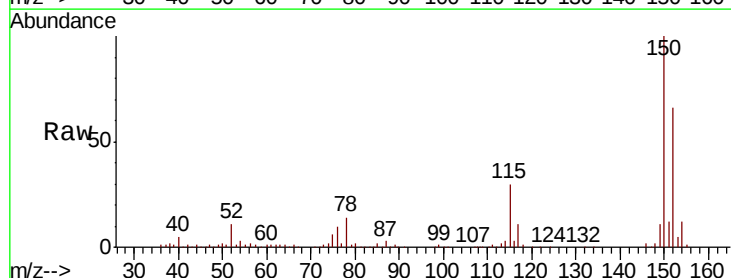
Tgt Ion: 146 Resp: 1406

Ion Ratio Lower Upper

146 100

111 201.9 20.0 59.9#

148 130.2 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

