

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX081018\
 Data File : VX003987.D
 Acq On : 10 Aug 2018 19:50
 Operator : JC/MD
 Sample : J4397-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-13

Quant Time: Aug 11 01:47:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	292707	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	444511	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	412224	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	222406	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	208911	53.84	ug/l	0.00
Spiked Amount			Recovery	=	107.68%	
35) Dibromofluoromethane	5.51	113	176112	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
50) Toluene-d8	8.72	98	620027	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
62) 4-Bromofluorobenzene	11.14	95	212560	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	

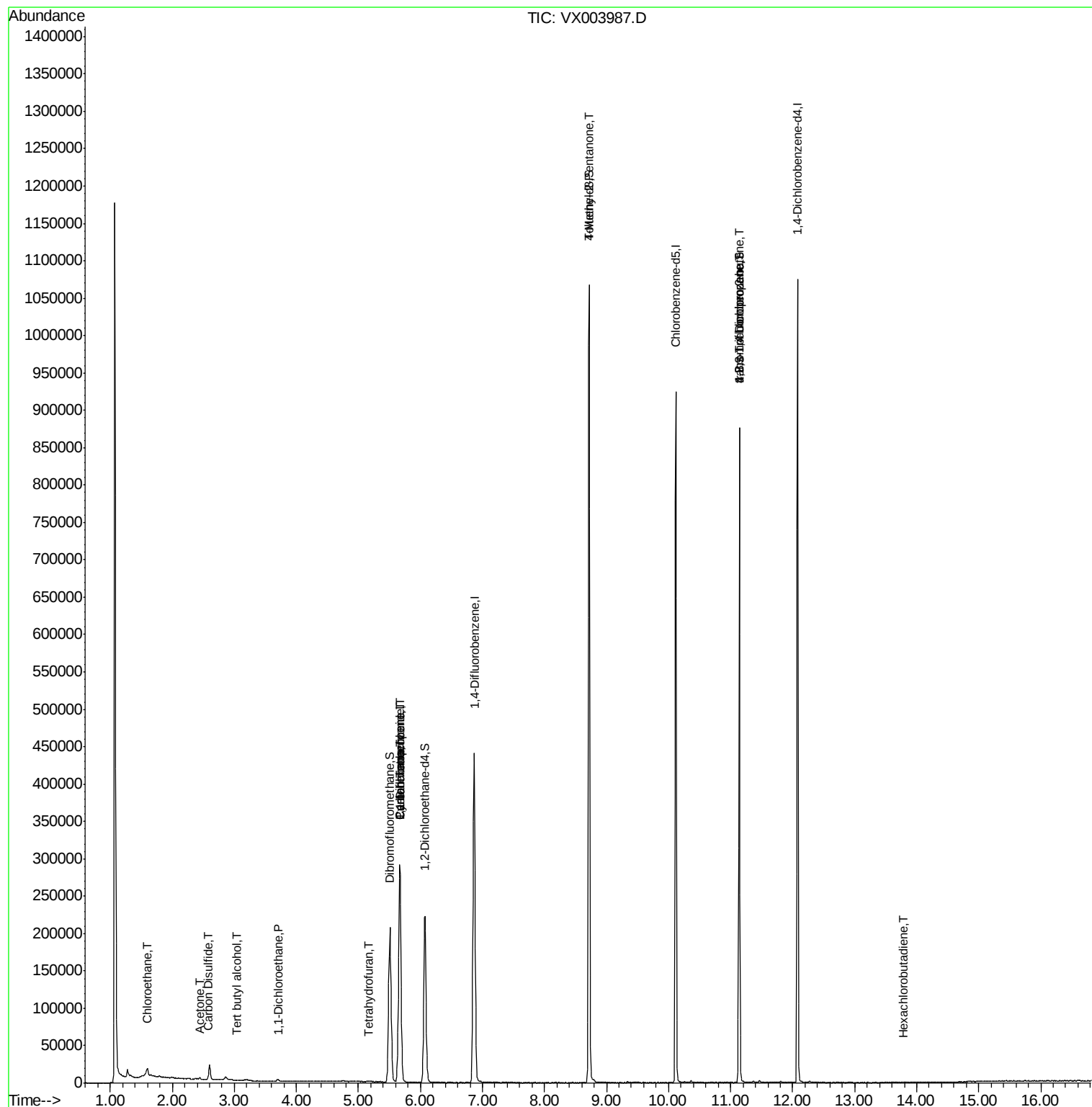
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	710	Below Cal	#	74
6) Chloroethane	1.61	64	23789	9.24	ug/l #	54
11) Tert butyl alcohol	3.03	59	338	0.36	ug/l #	90
13) Acrolein	2.28	56	84	Below Cal	#	1
16) Acetone	2.44	43	2353	1.02	ug/l	95
17) Carbon Disulfide	2.57	76	646	0.51	ug/l #	74
20) Methylene Chloride	2.86	84	1864	Below Cal		86
24) 1,1-Dichloroethane	3.70	63	3375	0.51	ug/l #	84
29) Tetrahydrofuran	5.17	42	1139	0.64	ug/l #	74
31) Cyclohexane	5.67	56	5397	0.97	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19809	3.98	ug/l #	49
38) Carbon Tetrachloride	5.67	117	25674	5.42	ug/l #	15
51) 4-Methyl-2-Pentanone	8.72	43	2598	0.38	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	103047	20.98	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	103047	56.75	ug/l #	9
88) 1,4-Dichlorobenzene	12.10	146	306	Below Cal	#	1
94) Hexachlorobutadiene	13.79	225	135	0.48	ug/l #	45

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampleId :

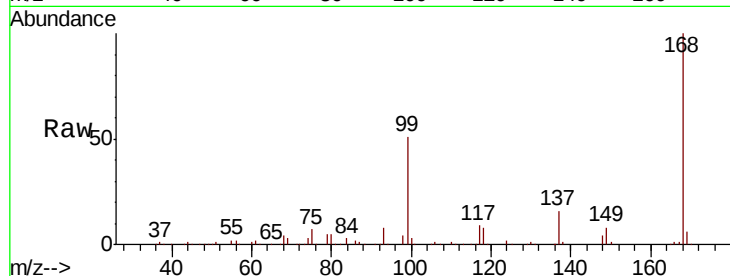
MW-13

Tot Ion:168 Resp: 292707

Ion Ratio Lower Upper

168 100

99 50.6 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

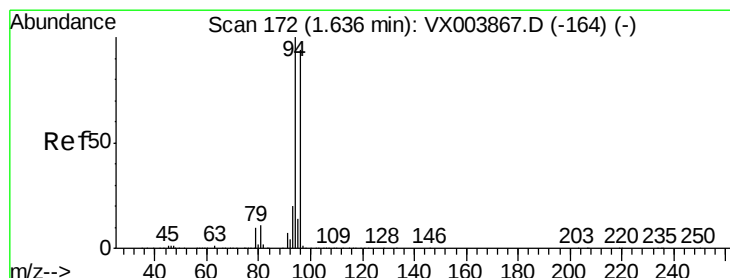
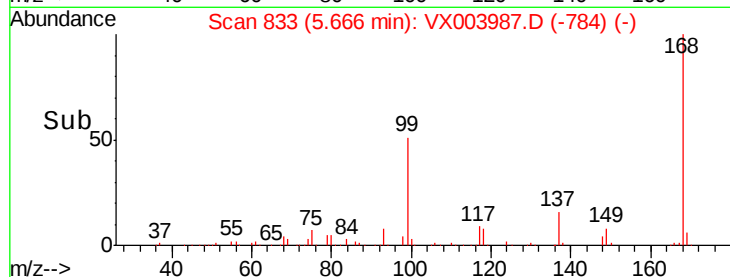
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003987.D

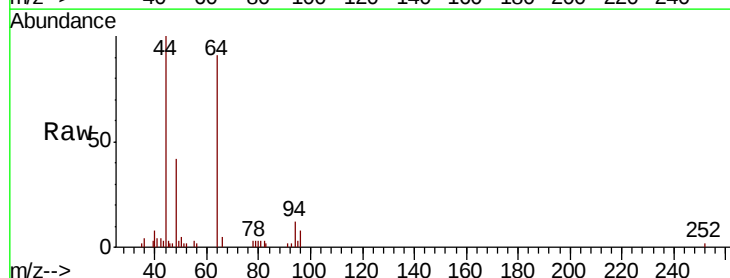
Acq: 10 Aug 2018 19:50

Tgt Ion: 94 Resp: 710

Ion Ratio Lower Upper

94 100

96 68.5 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

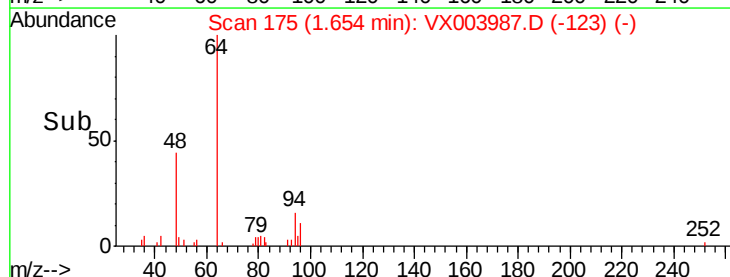
300

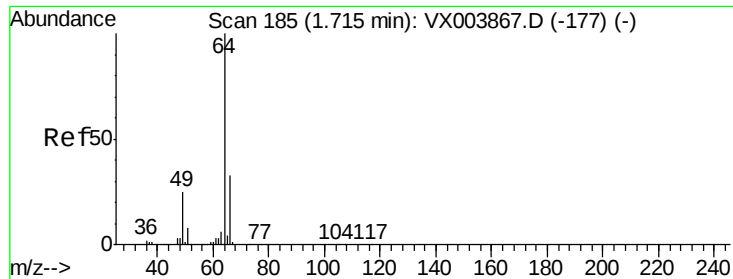
200

100

0

Time--> 1.60 1.65 1.70

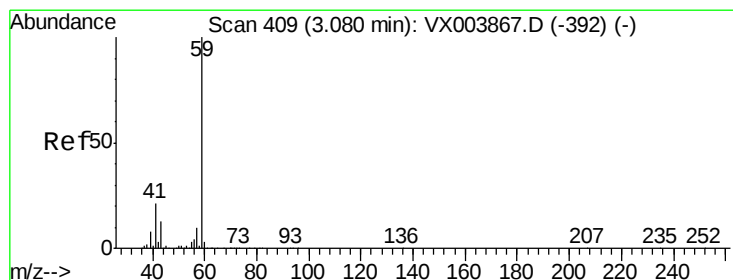
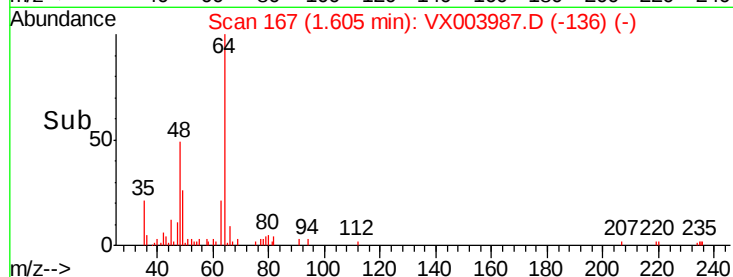
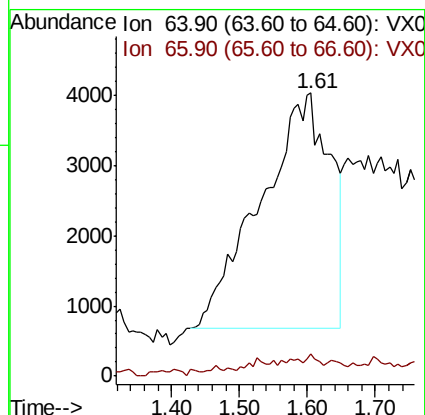
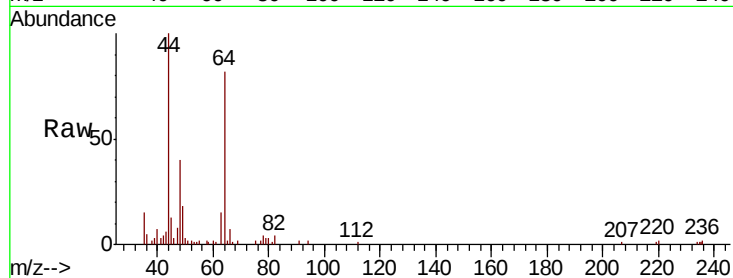




#6
Chloroethane
Concen: 9.24 ug/l
RT: 1.61 min Scan# 167
Delta R.T. -0.11 min
Lab File: VX003987.D
Acq: 10 Aug 2018 19:50

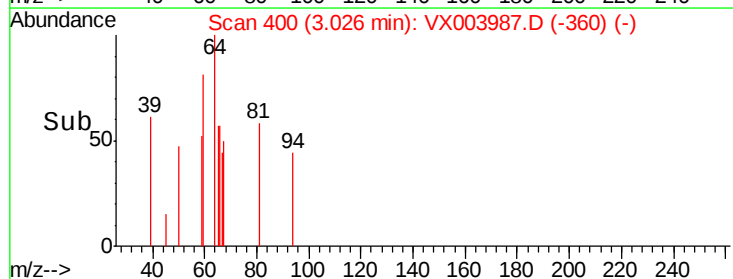
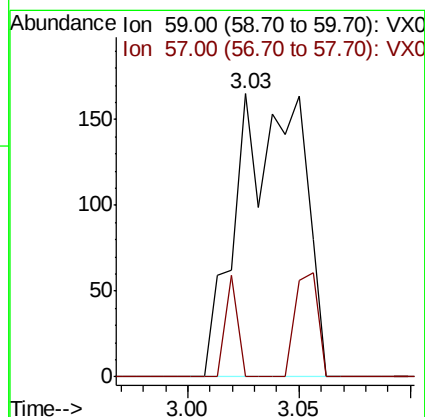
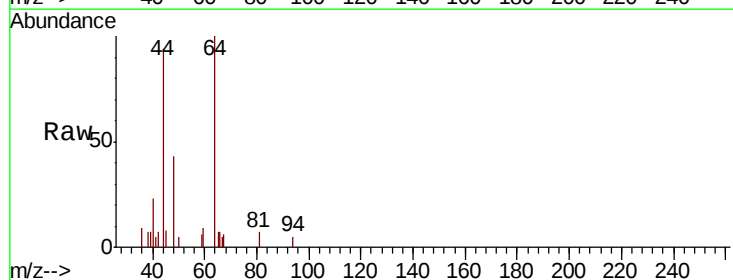
Instrument :
MSVOA_X
ClientSampled :
MW-13

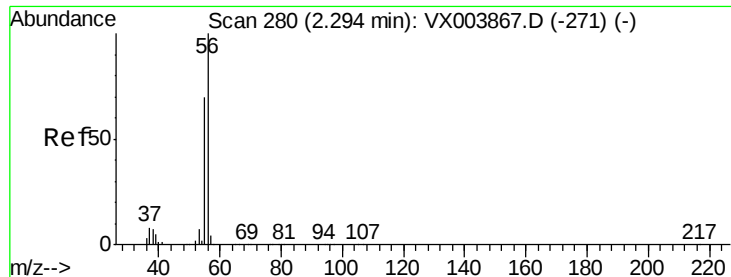
Tot Ion: 64 Resp: 23789
Ion Ratio Lower Upper
64 100
66 6.9 26.5 39.7#



#11
Tert butyl alcohol
Concen: 0.36 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX003987.D
Acq: 10 Aug 2018 19:50

Tgt Ion: 59 Resp: 338
Ion Ratio Lower Upper
59 100
57 6.5 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampled :

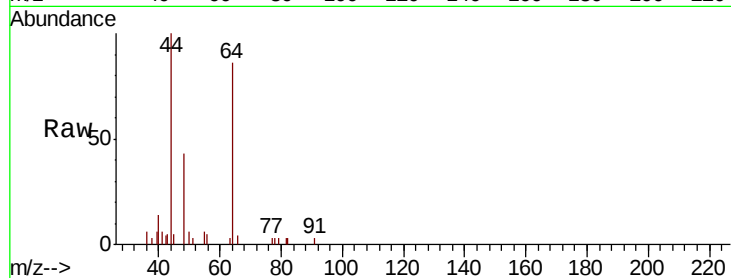
MW-13

Tot Ion: 56 Resp: 84

Ion Ratio Lower Upper

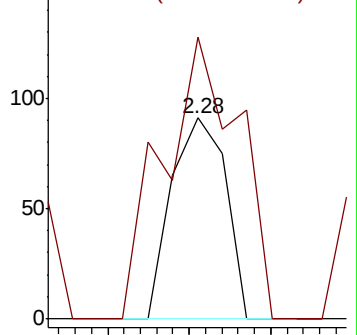
56 100

55 196.4 56.1 84.1#

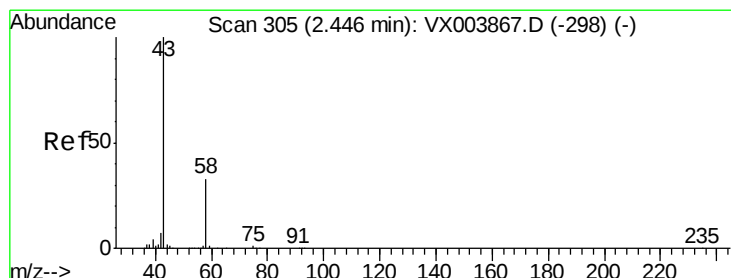
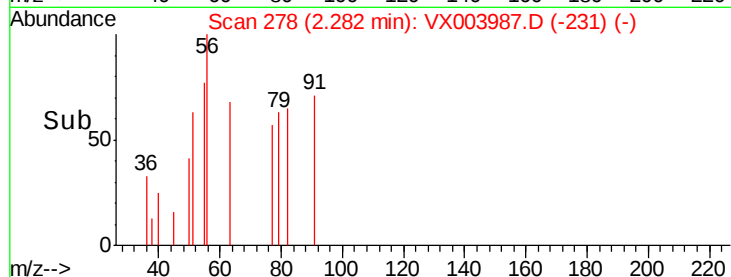


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 1.02 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003987.D

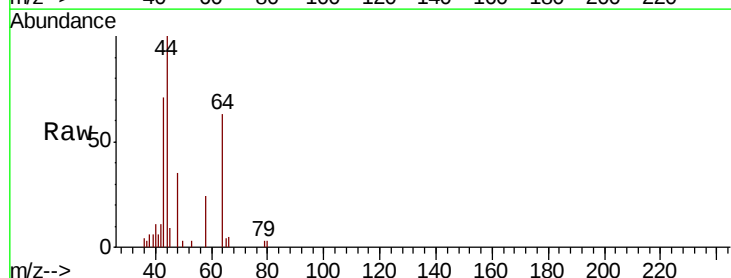
Acq: 10 Aug 2018 19:50

Tgt Ion: 43 Resp: 2353

Ion Ratio Lower Upper

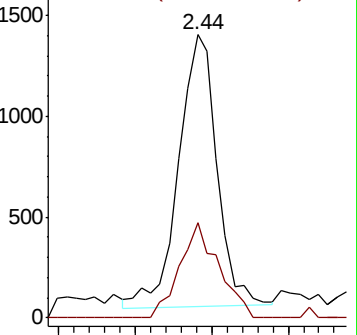
43 100

58 35.6 26.4 39.6

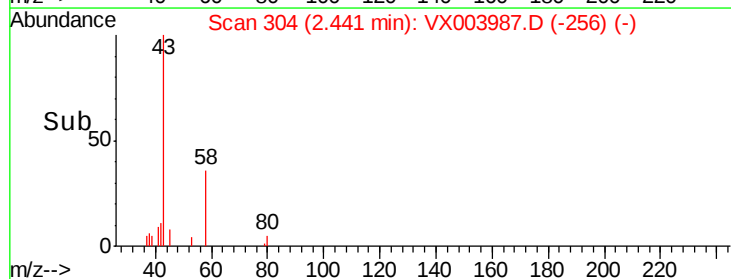


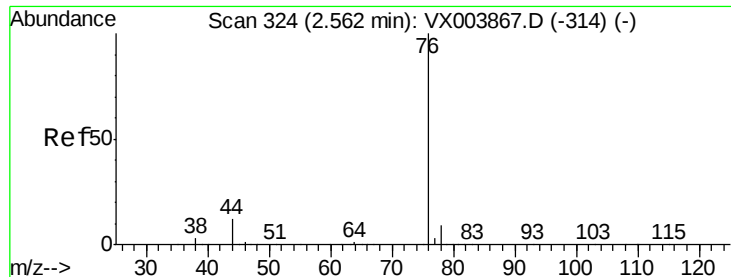
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.51 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampled :

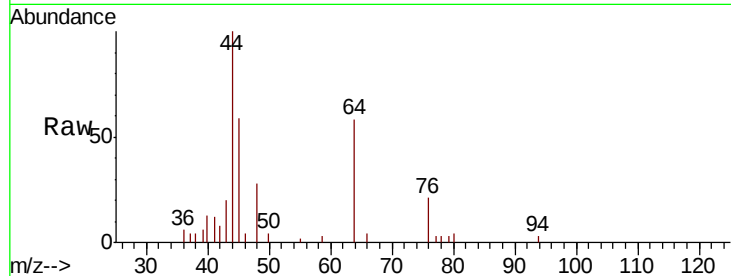
MW-13

Tot Ion: 76 Resp: 646

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

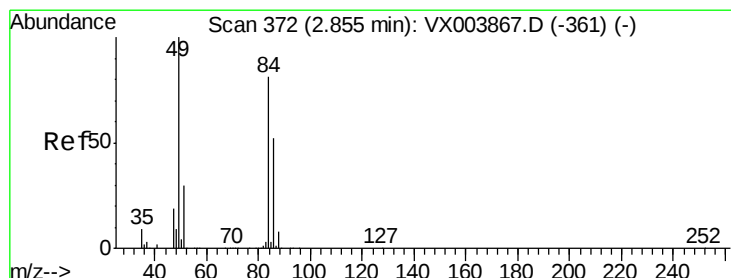
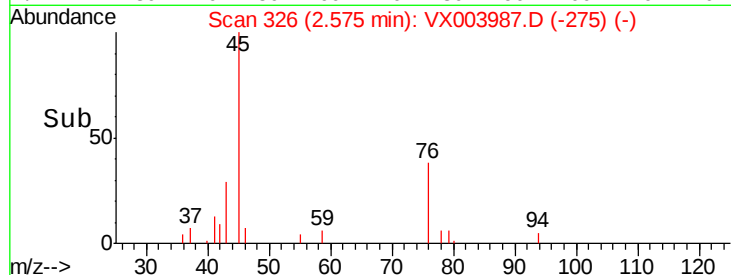
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Tgt Ion: 84 Resp: 1864

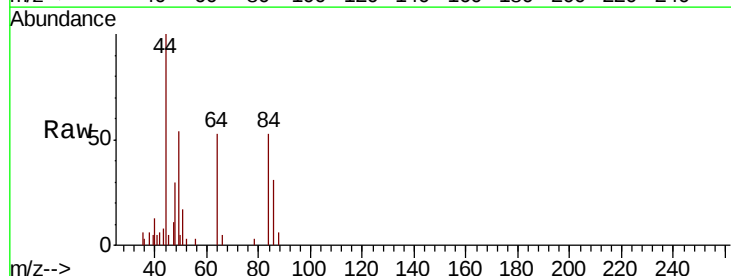
Ion Ratio Lower Upper

84 100

49 101.5 98.9 148.3

51 32.6 29.9 44.9

86 58.1 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

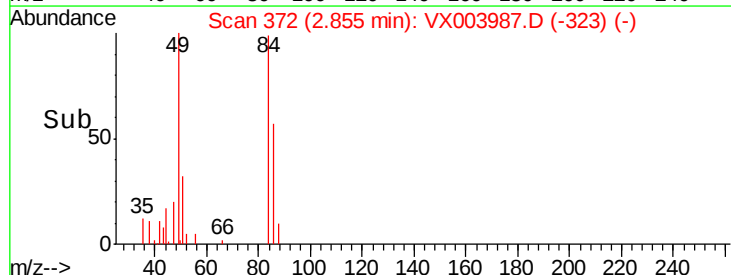
1500

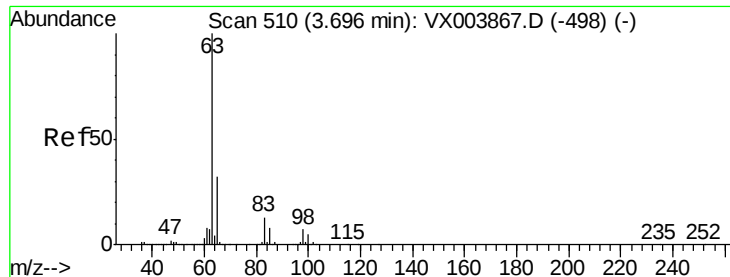
1000

500

0

Time-->





#24

1,1-Dichloroethane

Concen: 0.51 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.01 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampleId :

MW-13

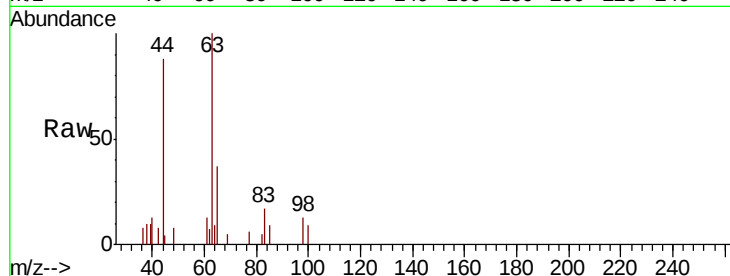
Tot Ion: 63 Resp: 3375

Ion Ratio Lower Upper

63 100

98 12.9 3.5 10.5#

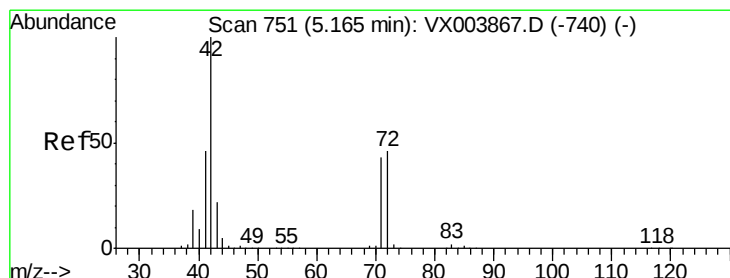
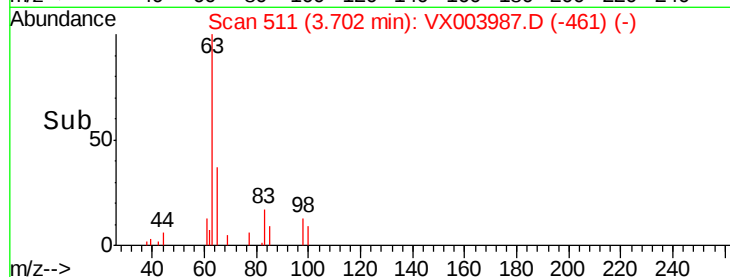
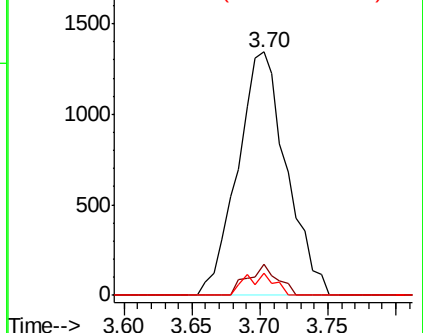
100 9.3 2.3 6.8#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#29

Tetrahydrofuran

Concen: 0.64 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

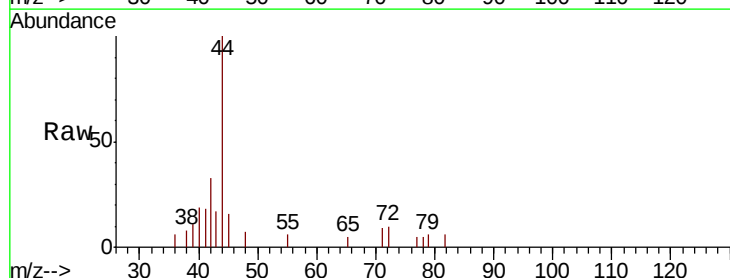
Tgt Ion: 42 Resp: 1139

Ion Ratio Lower Upper

42 100

72 33.9 37.7 56.5#

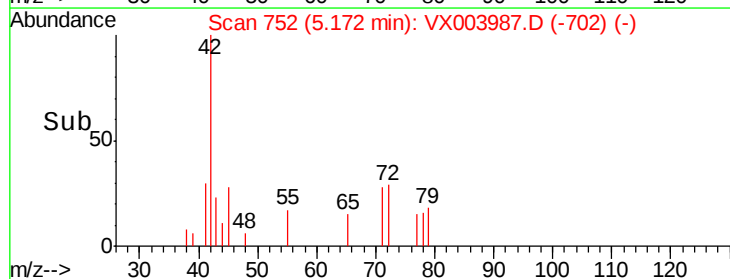
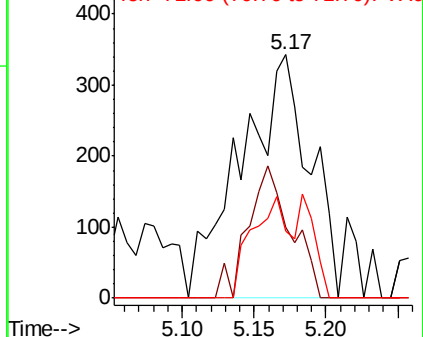
71 22.7 35.0 52.6#

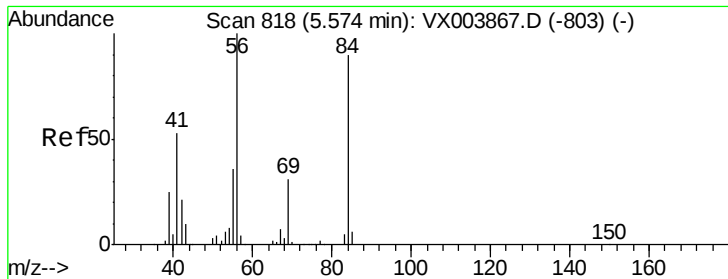


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.97 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampleId :

MW-13

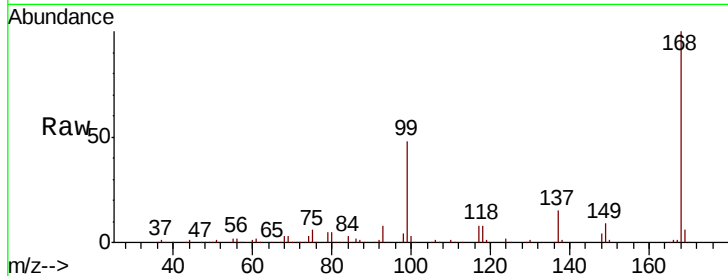
Tot Ion: 56 Resp: 5397

Ion Ratio Lower Upper

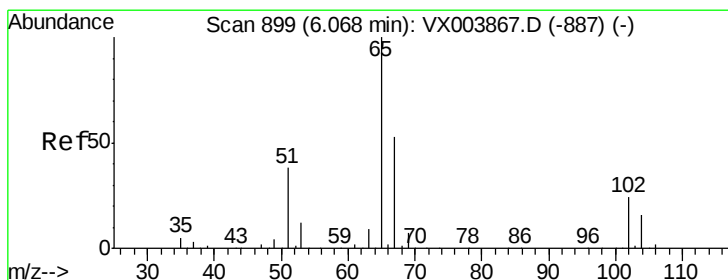
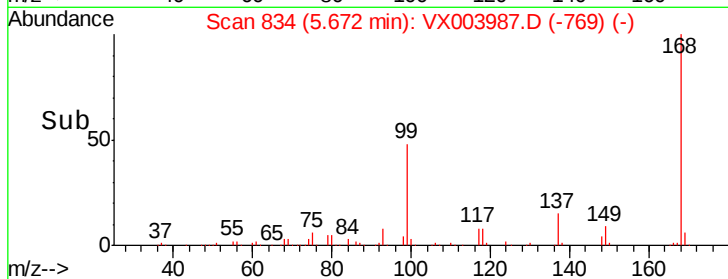
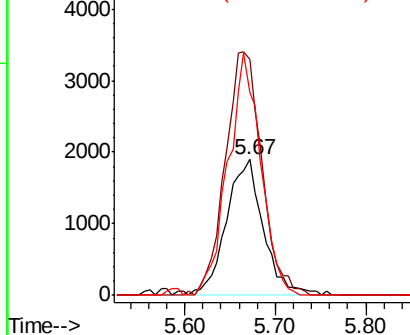
56 100

69 174.1 24.9 37.3#

84 149.2 71.7 107.5#



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: 53.84 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003987.D

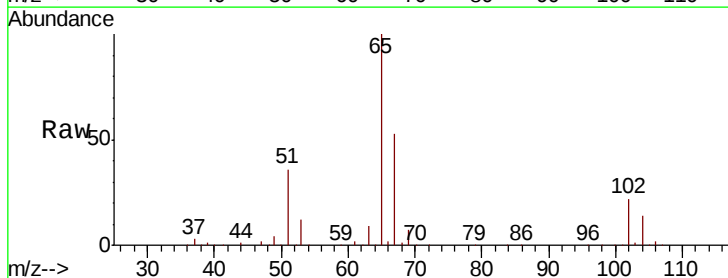
Acq: 10 Aug 2018 19:50

Tgt Ion: 65 Resp: 208911

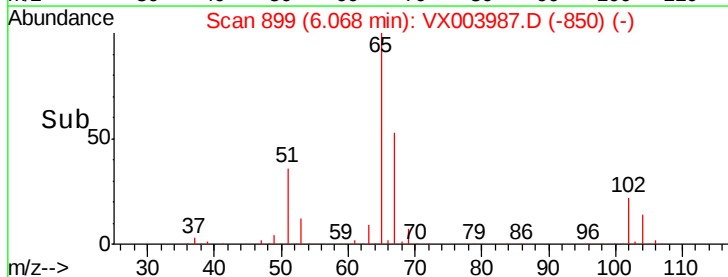
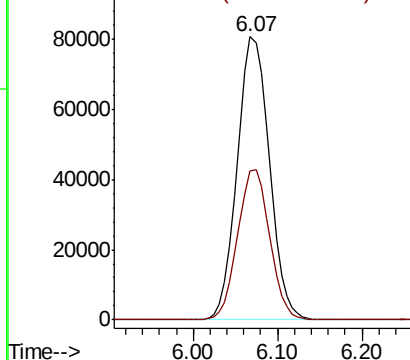
Ion Ratio Lower Upper

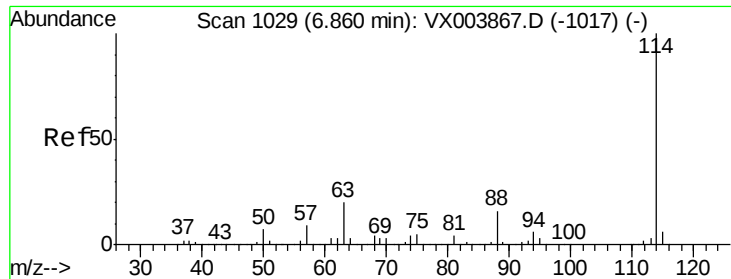
65 100

67 52.9 0.0 105.8



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

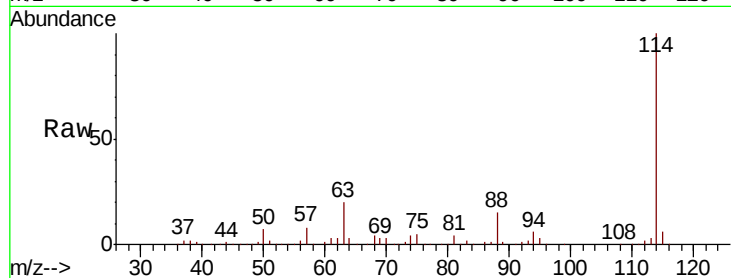




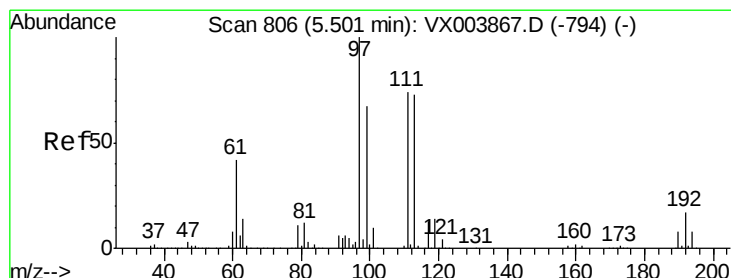
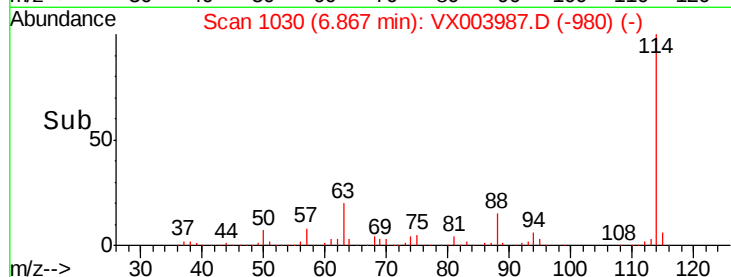
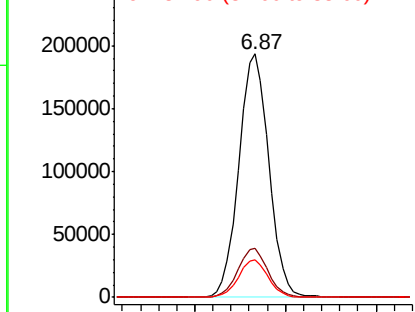
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003987.D
 Acq: 10 Aug 2018 19:50

Instrument :
 MSVOA_X
 ClientSampled :
 MW-13

Tot Ion:114 Resp: 444511
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.0
 88 15.2 0.0 32.0

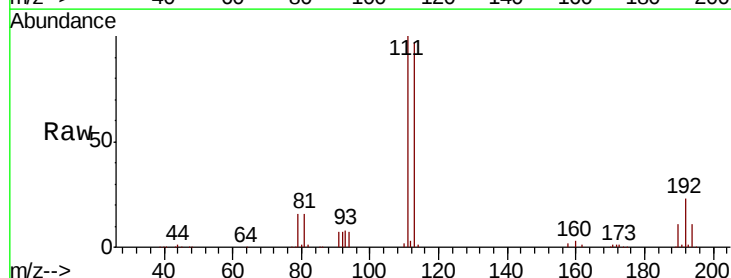


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

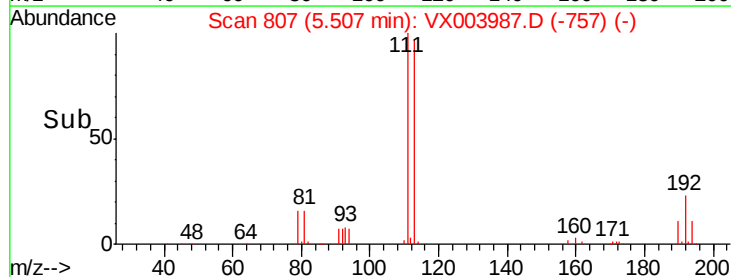
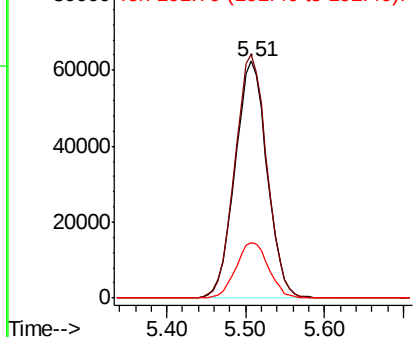


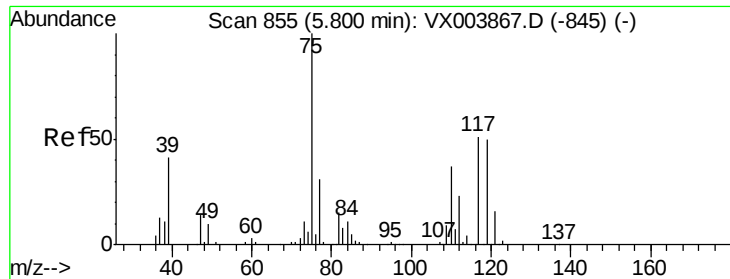
#35
 Dibromofluoromethane
 Concen: 52.30 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX003987.D
 Acq: 10 Aug 2018 19:50

Tgt Ion:113 Resp: 176112
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.0 123.0
 192 23.8 19.0 28.4



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: 3.98 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampleId :

MW-13

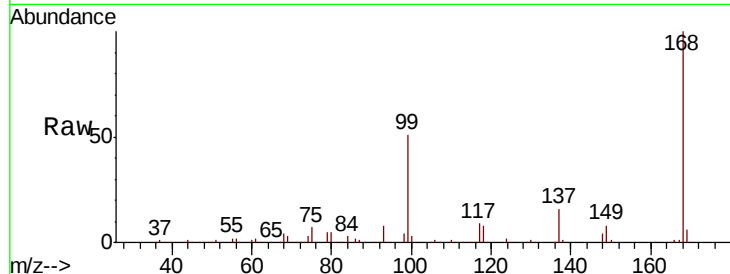
Tot Ion: 75 Resp: 19809

Ion Ratio Lower Upper

75 100

110 9.1 18.2 54.6#

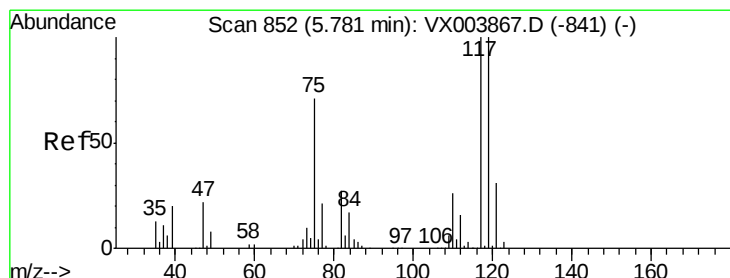
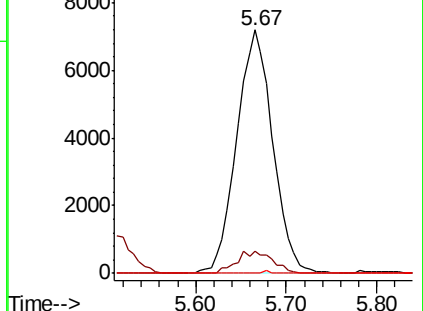
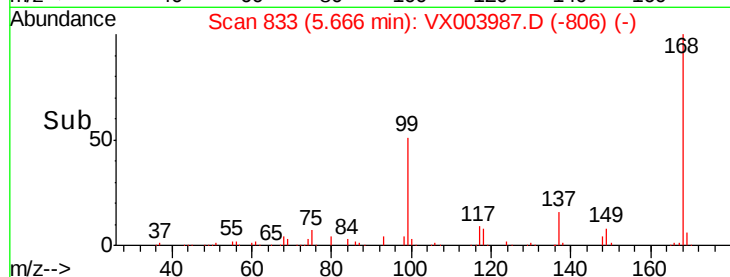
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.42 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

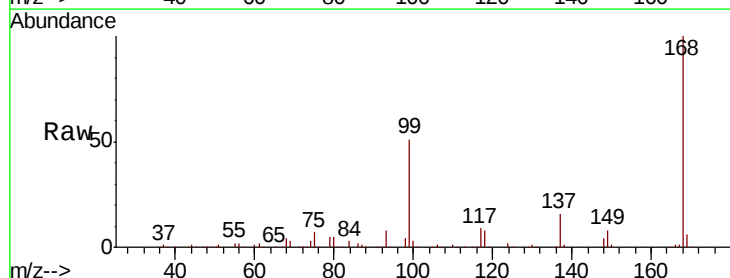
Tgt Ion: 117 Resp: 25674

Ion Ratio Lower Upper

117 100

119 5.6 79.5 119.3#

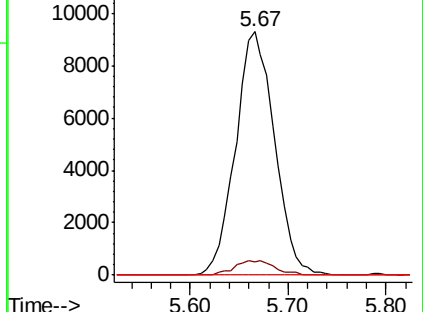
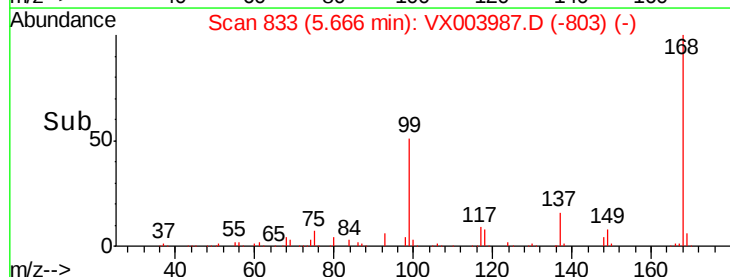
121 0.0 25.0 37.4#

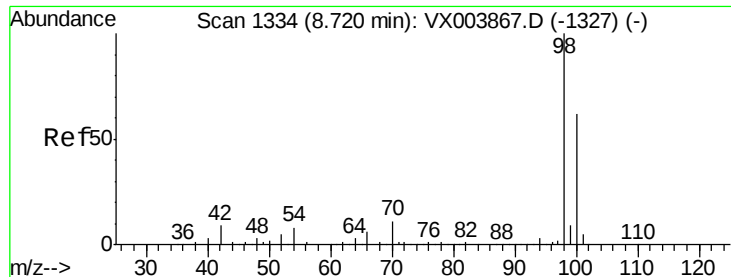


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 47.35 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampleId :

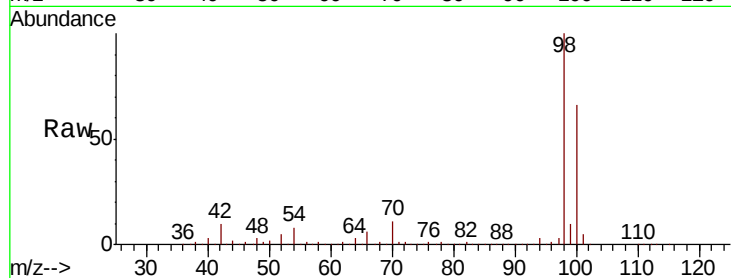
MW-13

Tot Ion: 98 Resp: 620027

Ion Ratio Lower Upper

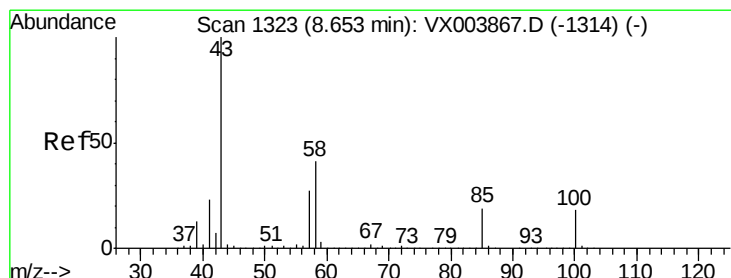
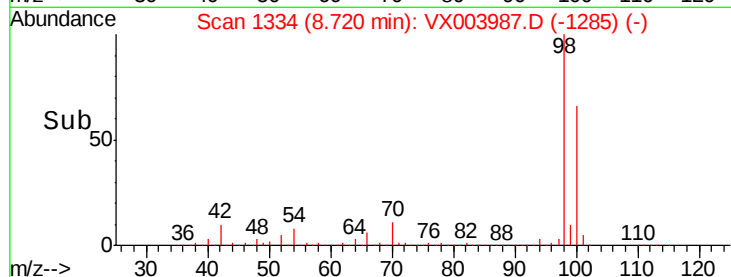
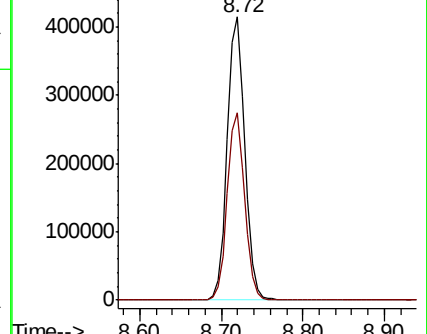
98 100

100 65.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.38 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VX003987.D

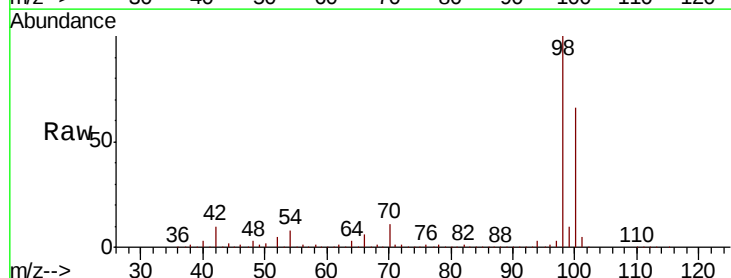
Acq: 10 Aug 2018 19:50

Tgt Ion: 43 Resp: 2598

Ion Ratio Lower Upper

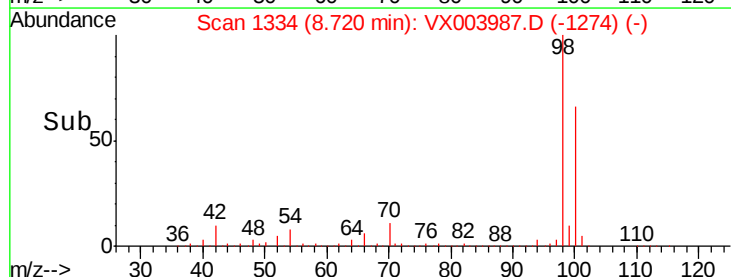
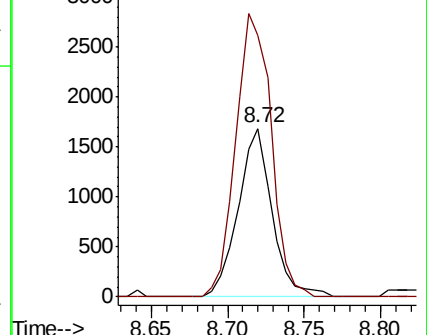
43 100

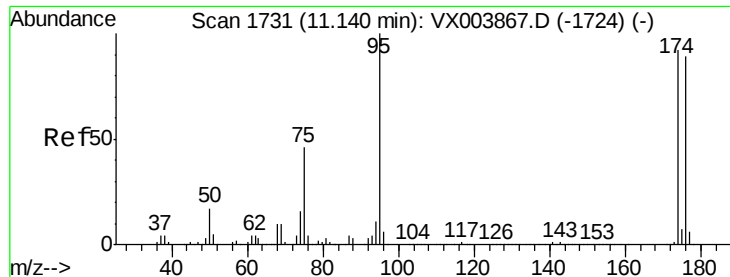
58 175.1 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

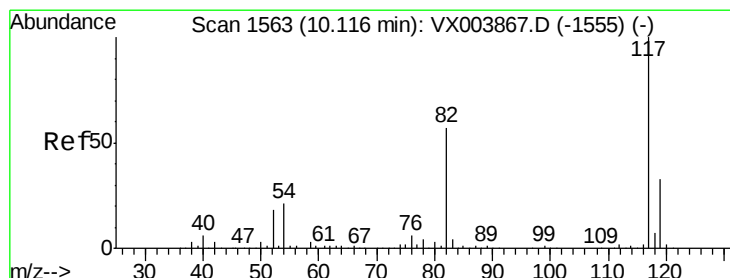
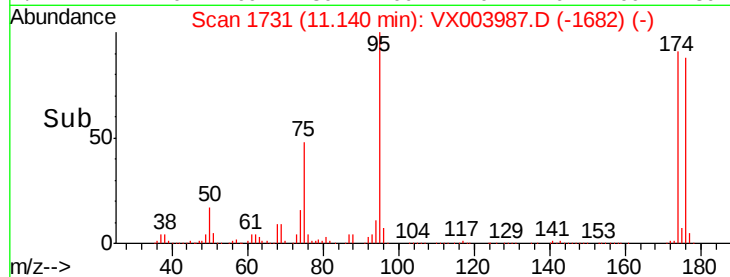
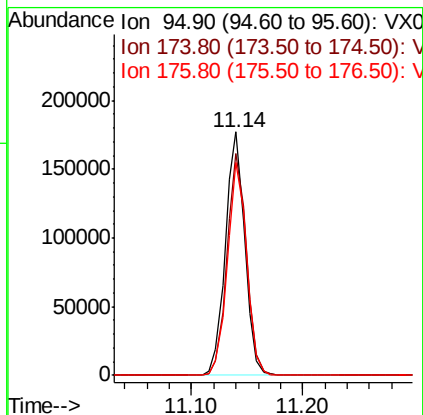
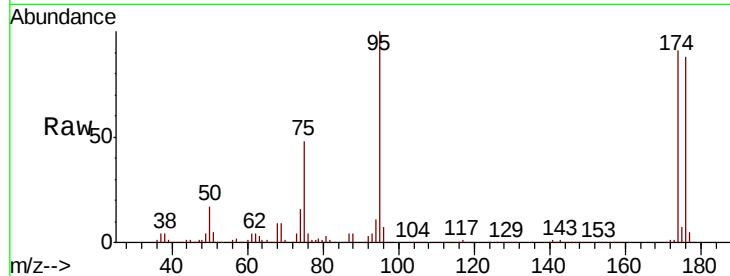




#62
4-Bromofluorobenzene
Concen: 50.16 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003987.D
Acq: 10 Aug 2018 19:50

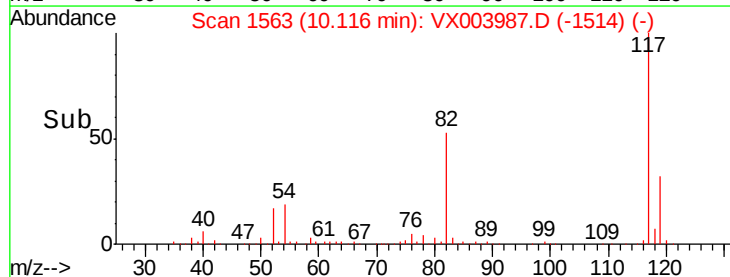
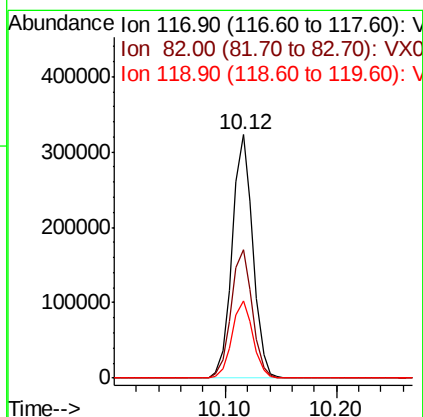
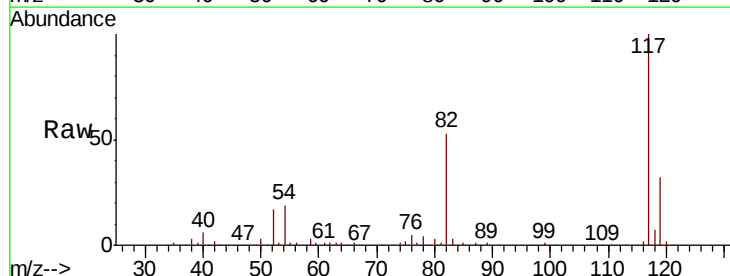
Instrument :
MSVOA_X
ClientSampleId :
MW-13

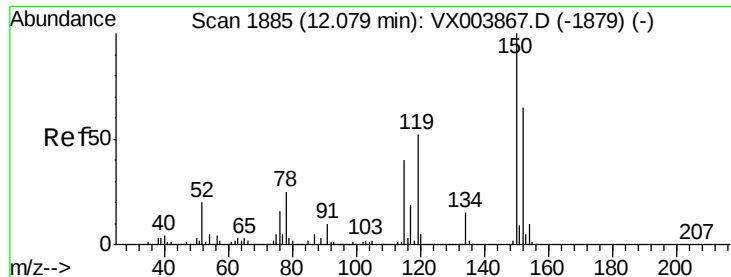
Tot Ion: 95 Resp: 212560
Ion Ratio Lower Upper
95 100
174 92.3 0.0 182.8
176 86.9 0.0 179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003987.D
Acq: 10 Aug 2018 19:50

Tgt Ion: 117 Resp: 412224
Ion Ratio Lower Upper
117 100
82 52.6 45.4 68.0
119 31.9 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampleId :

MW-13

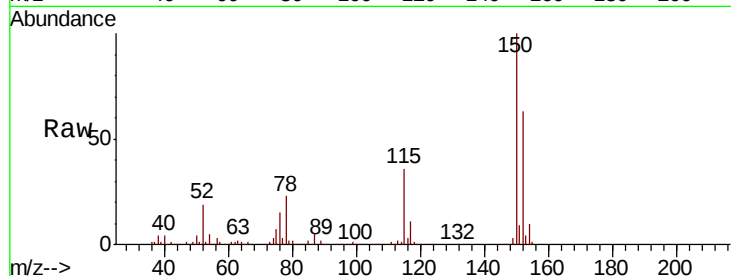
Tot Ion:152 Resp: 222406

Ion Ratio Lower Upper

152 100

115 55.9 39.1 117.3

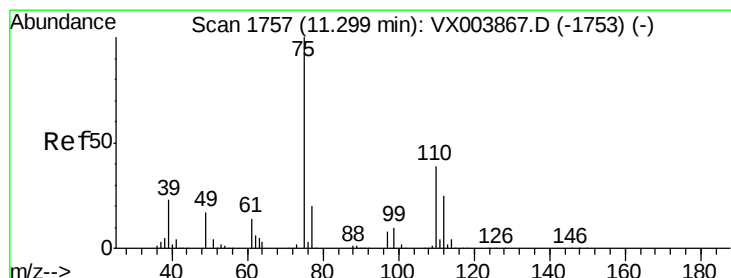
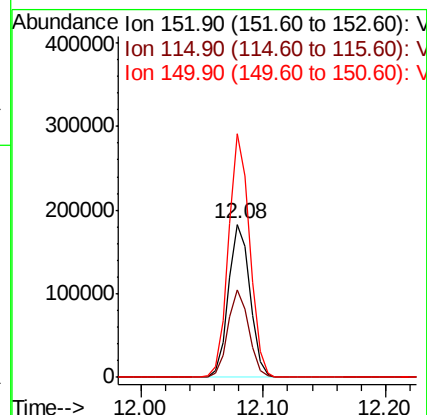
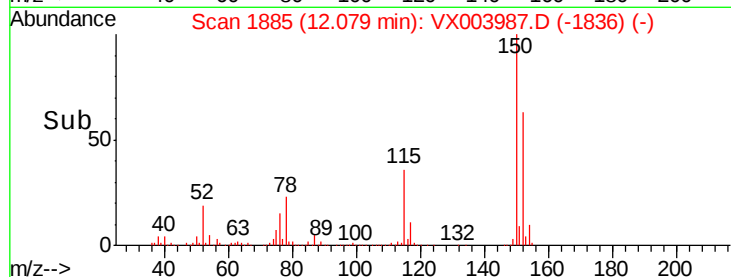
150 156.5 0.0 349.2



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: 20.98 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003987.D

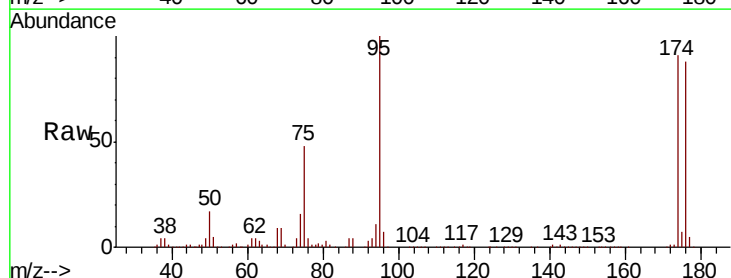
Acq: 10 Aug 2018 19:50

Tgt Ion: 75 Resp: 103047

Ion Ratio Lower Upper

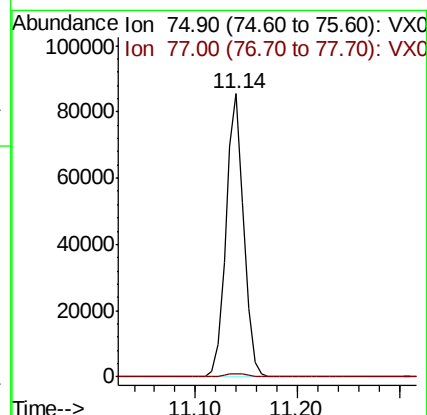
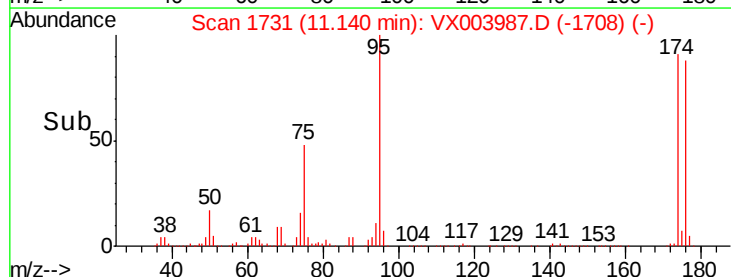
75 100

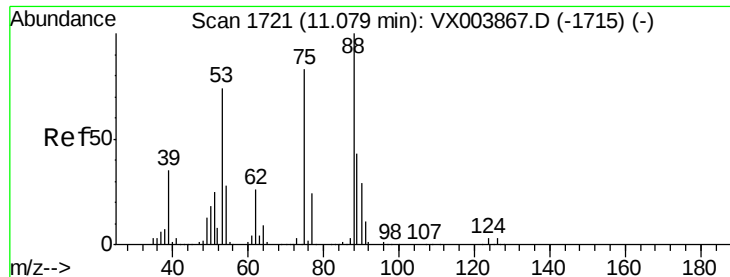
77 1.5 20.8 62.5#



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: 56.75 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampled :

MW-13

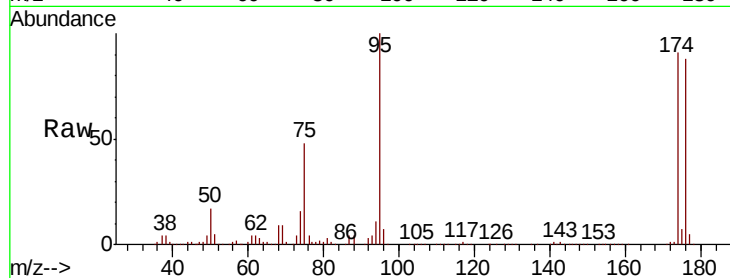
Tot Ion: 75 Resp: 103047

Ion Ratio Lower Upper

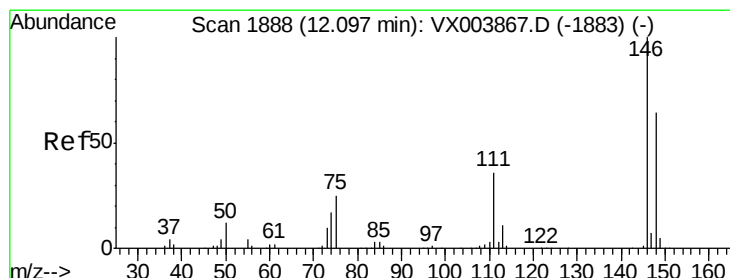
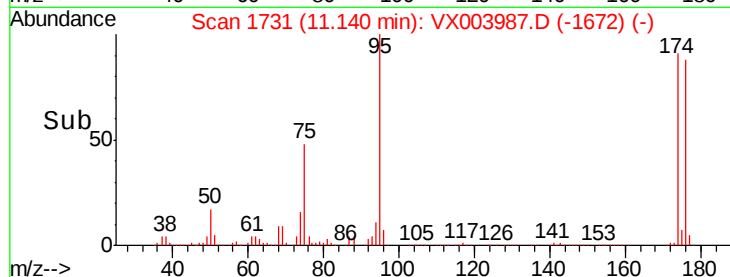
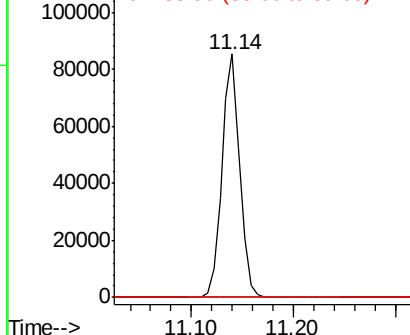
75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#



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: Below Cal

RT: 12.10 min Scan# 1888

Delta R.T. 0.00 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

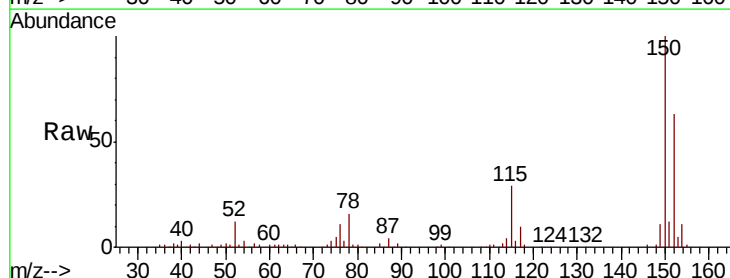
Tgt Ion: 146 Resp: 306

Ion Ratio Lower Upper

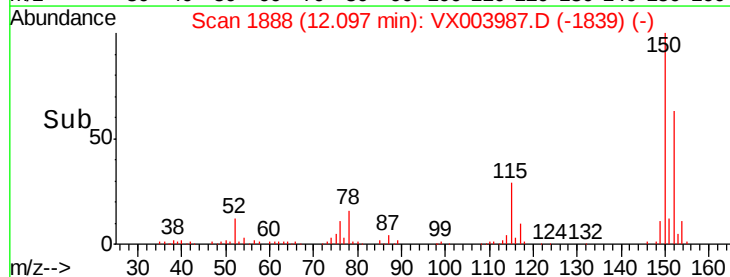
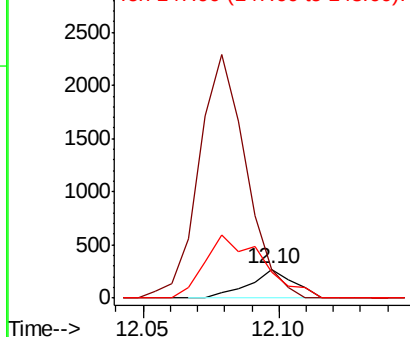
146 100

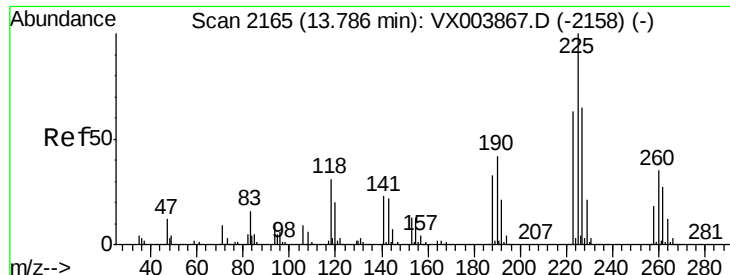
111 905.6 18.4 55.0#

148 288.2 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





#94

Hexachlorobutadiene

Concen: 0.48 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003987.D

Acq: 10 Aug 2018 19:50

Instrument :

MSVOA_X

ClientSampleId :

MW-13

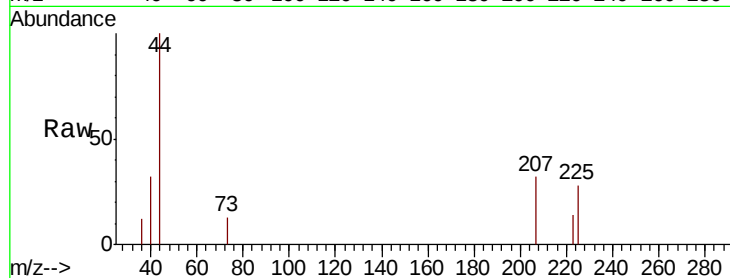
Tot Ion:225 Resp: 135

Ion Ratio Lower Upper

225 100

223 41.5 31.4 94.0

227 0.0 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

