

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091318\
 Data File : VX004524.D
 Acq On : 13 Sep 2018 18:48
 Operator : JC/MD
 Sample : J4892-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C-MW-10-091118

Quant Time: Sep 14 03:55:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	359073	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	346009	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190406	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	177830	53.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.30%	
35) Dibromofluoromethane	5.51	113	161601	49.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.36%	
50) Toluene-d8	8.71	98	541351	49.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.26%	
62) 4-Bromofluorobenzene	11.14	95	180906	45.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.98%	

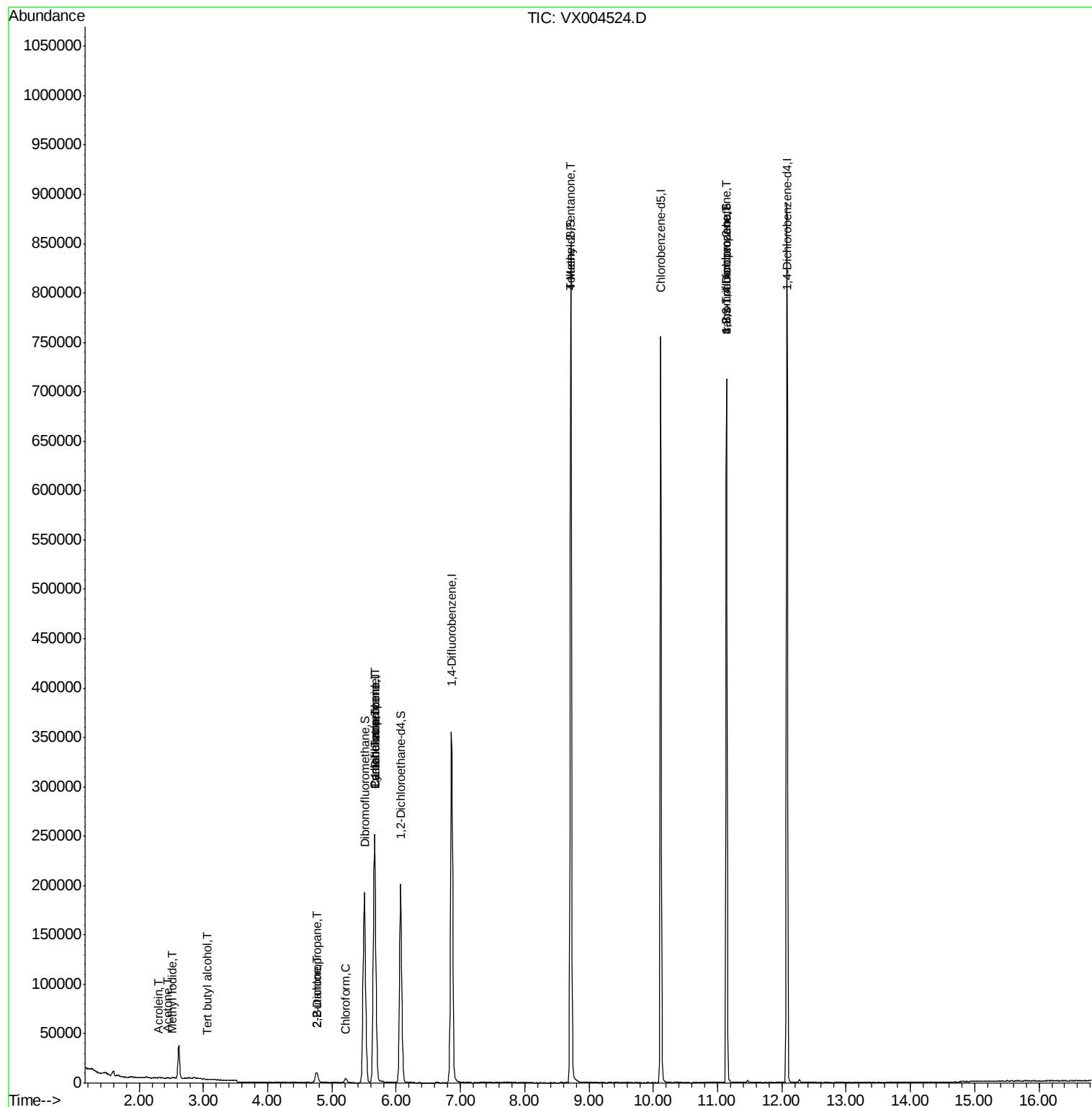
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	517	Below Cal	#	72
10) Methyl Iodide	2.51	142	236	4.32	ug/l #	79
11) Tert butyl alcohol	3.07	59	249	0.31	ug/l #	72
13) Acrolein	2.29	56	129	0.41	ug/l #	16
16) Acetone	2.44	43	1353	0.84	ug/l	93
25) 2-Butanone	4.76	43	731	0.28	ug/l #	47
26) 2,2-Dichloropropane	4.76	77	1001	0.26	ug/l #	52
30) Chloroform	5.21	83	4873	0.89	ug/l	100
31) Cyclohexane	5.67	56	4491	0.94	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16907	3.88	ug/l #	49
38) Carbon Tetrachloride	5.66	117	22199	5.21	ug/l #	15
51) 4-Methyl-2-Pentanone	8.71	43	2249	0.48	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	85710	22.37	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	85710	71.32	ug/l #	10

(#) = 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# 740

Delta R.T. -0.00 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

Instrument :

MSVOA_X

ClientSampleId :

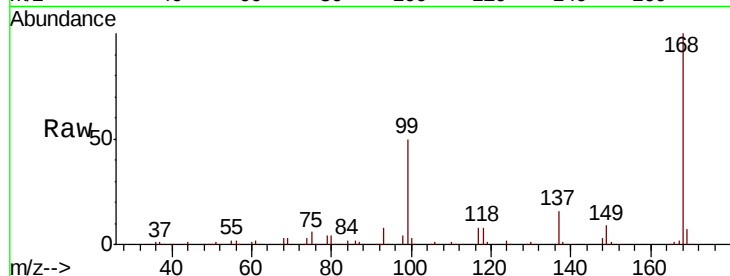
C-MW-10-091118

Tot Ion:168 Resp: 257070

Ion Ratio Lower Upper

168 100

99 50.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

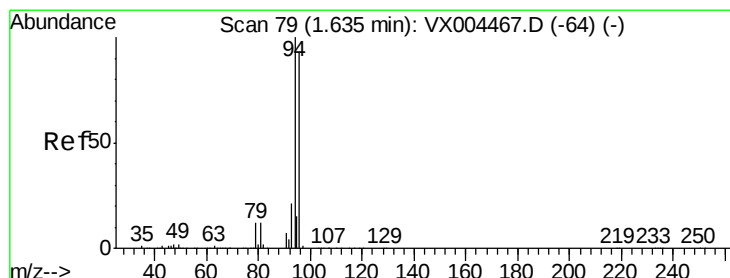
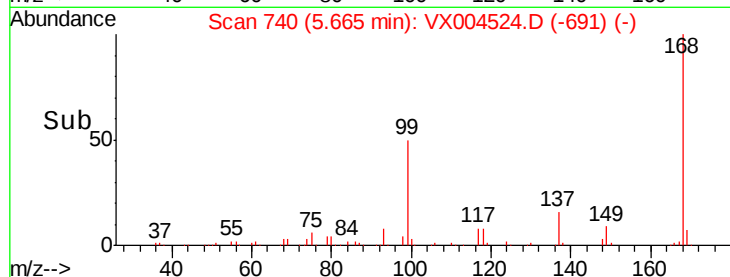
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004524.D

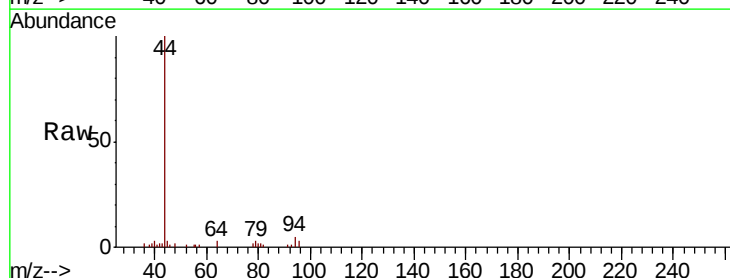
Acq: 13 Sep 2018 18:48

Tgt Ion: 94 Resp: 517

Ion Ratio Lower Upper

94 100

96 66.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

250

200

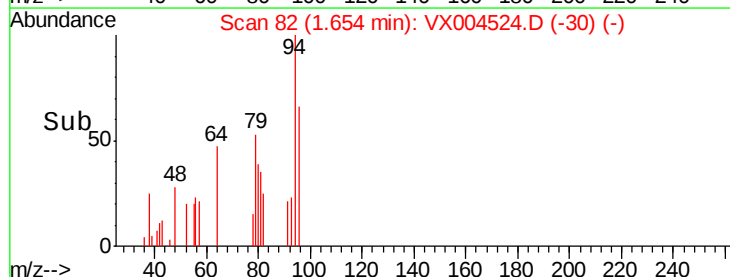
150

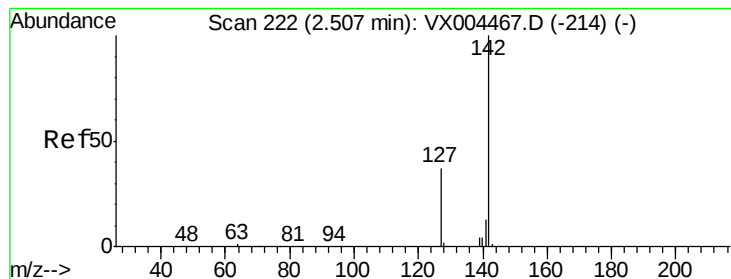
100

50

0

Time--> 1.60 1.65 1.70





#10

Methyl Iodide

Concen: 4.32 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

Instrument :

MSVOA_X

ClientSampleId :

C-MW-10-091118

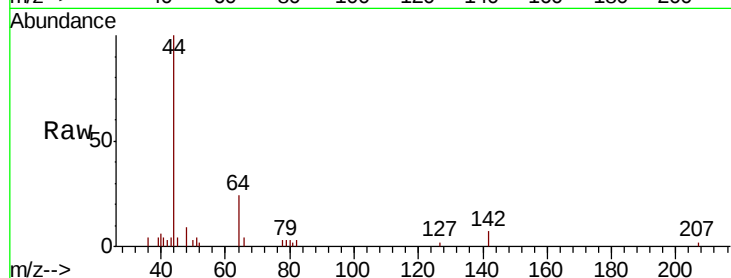
Tot Ion:142 Resp: 236

Ion Ratio Lower Upper

142 100

127 31.8 33.8 50.6#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

100

50

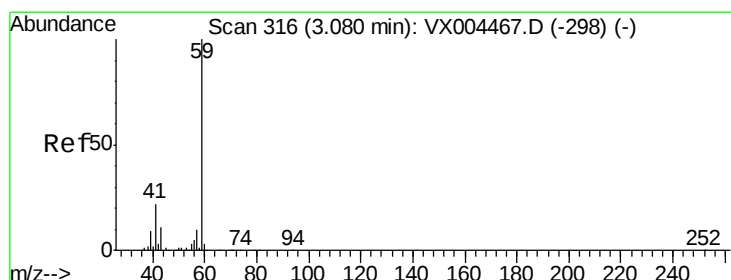
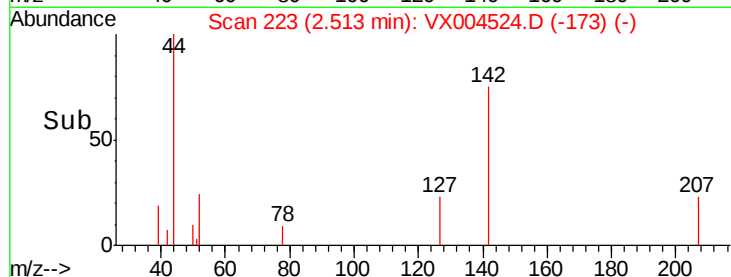
0

2.50

2.51

2.55

Time-->



#11

Tert butyl alcohol

Concen: 0.31 ug/l

RT: 3.07 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX004524.D

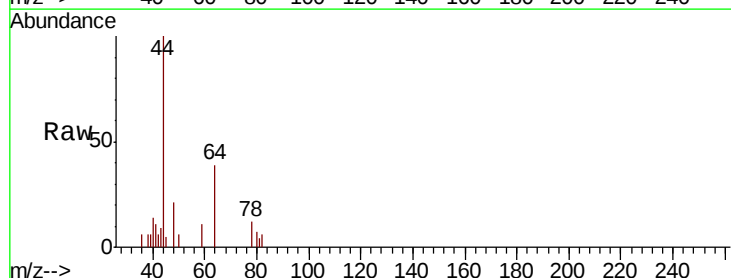
Acq: 13 Sep 2018 18:48

Tgt Ion: 59 Resp: 249

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

150

100

50

0

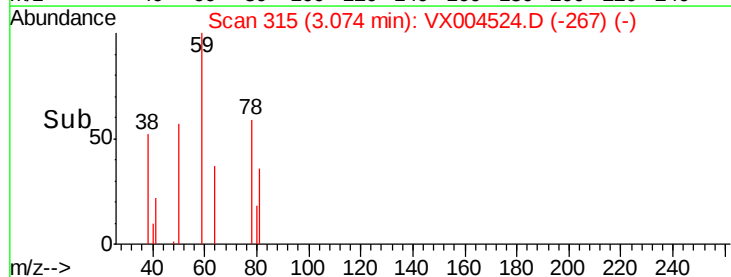
3.04

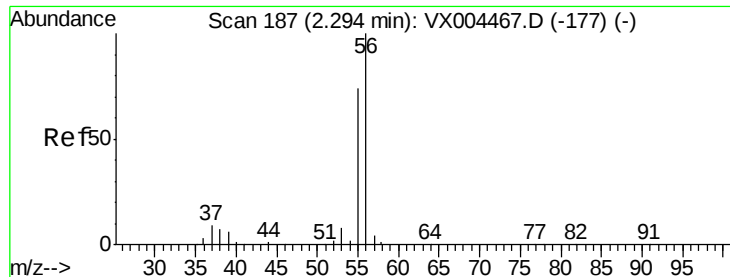
3.06

3.07

3.10

Time-->





#13

Acrolein

Concen: 0.41 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

Instrument :

MSVOA_X

ClientSampleId :

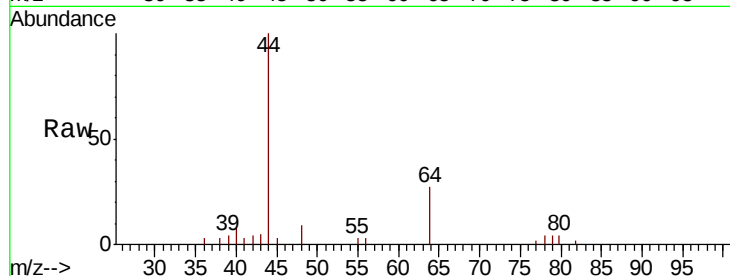
C-MW-10-091118

Tot Ion: 56 Resp: 129

Ion Ratio Lower Upper

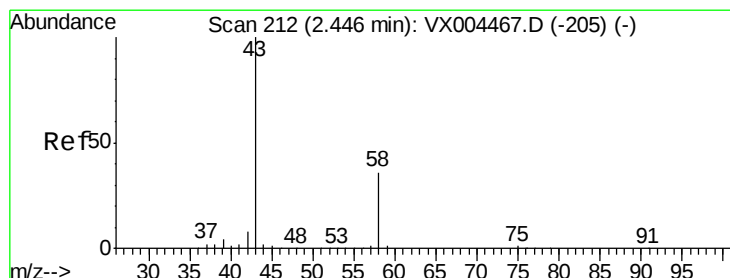
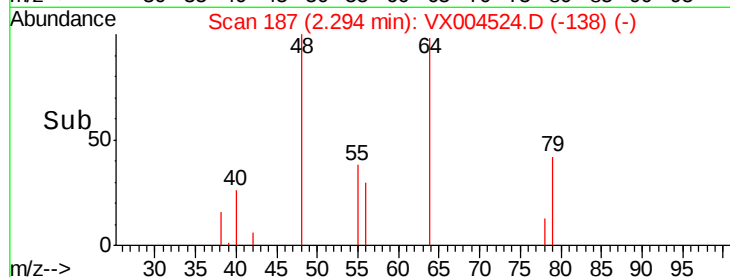
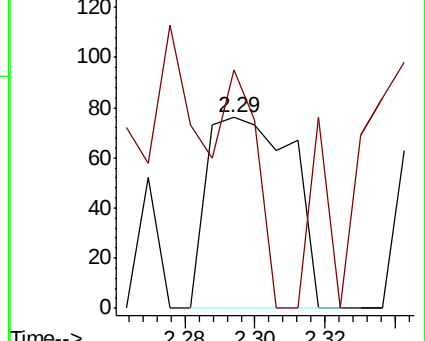
56 100

55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.84 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004524.D

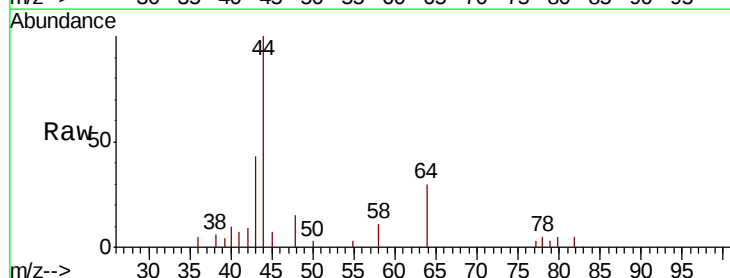
Acq: 13 Sep 2018 18:48

Tgt Ion: 43 Resp: 1353

Ion Ratio Lower Upper

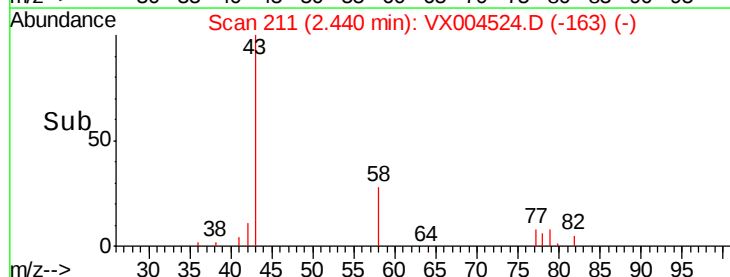
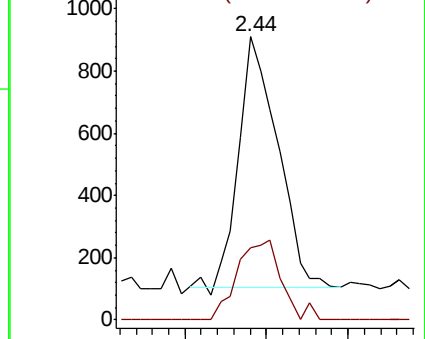
43 100

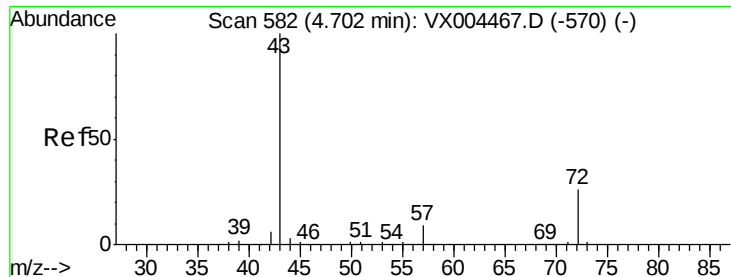
58 28.6 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.76 min Scan# 592

Delta R.T. 0.06 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

Instrument :

MSVOA_X

ClientSampleId :

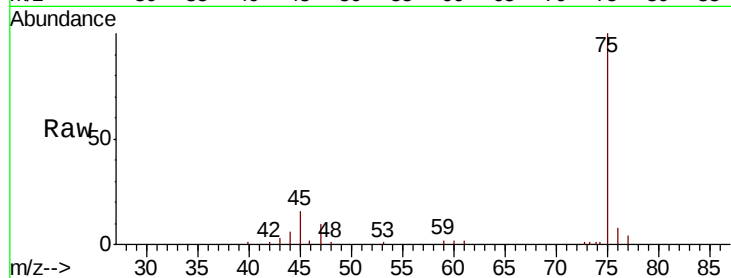
C-MW-10-091118

Tot Ion: 43 Resp: 731

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

250

200

150

100

50

0

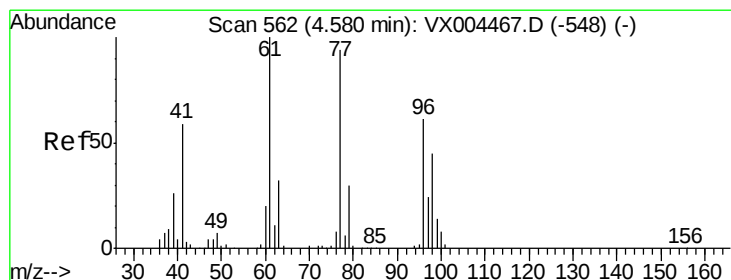
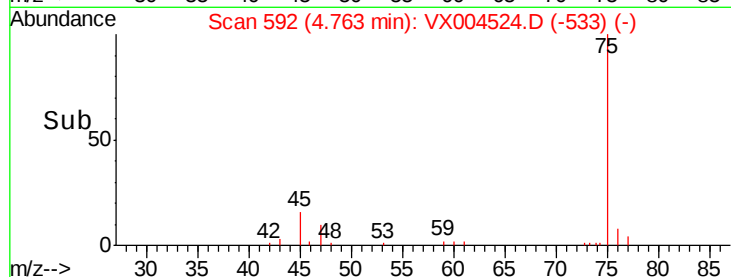
4.65

4.70

4.75

4.80

Time-->



#26

2,2-Dichloropropane

Concen: 0.26 ug/l

RT: 4.76 min Scan# 591

Delta R.T. 0.18 min

Lab File: VX004524.D

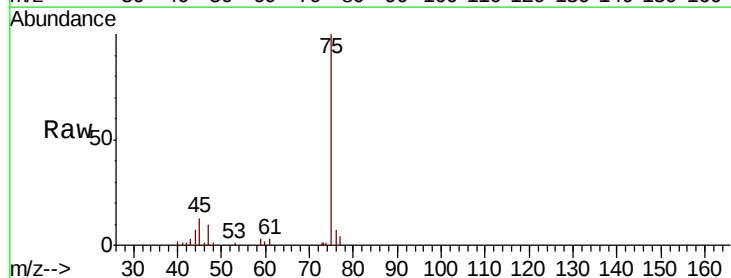
Acq: 13 Sep 2018 18:48

Tgt Ion: 77 Resp: 1001

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

300

200

100

0

4.65

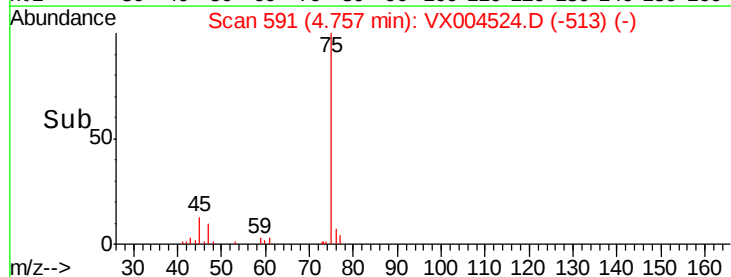
4.70

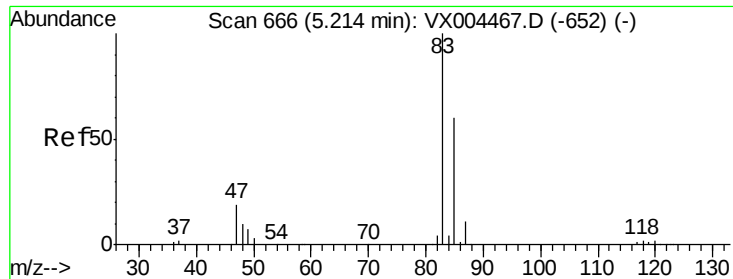
4.75

4.80

4.85

Time-->

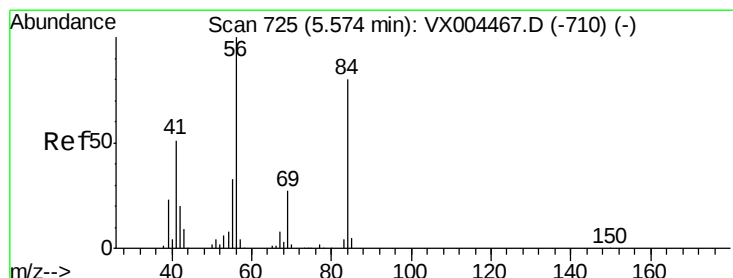
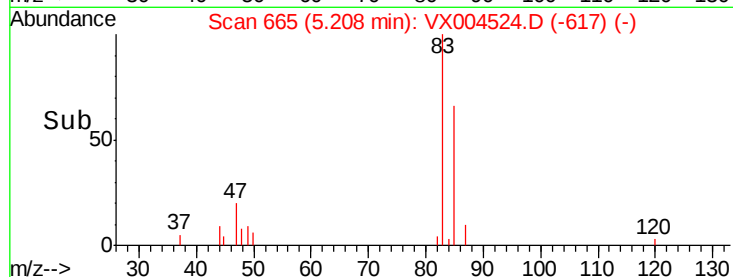
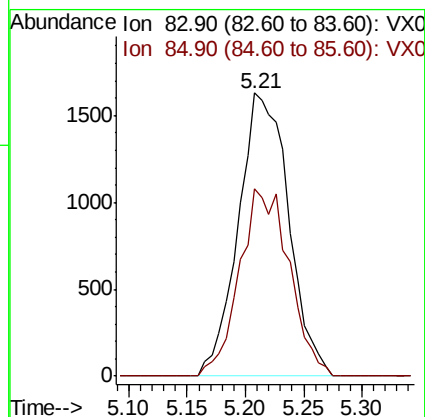
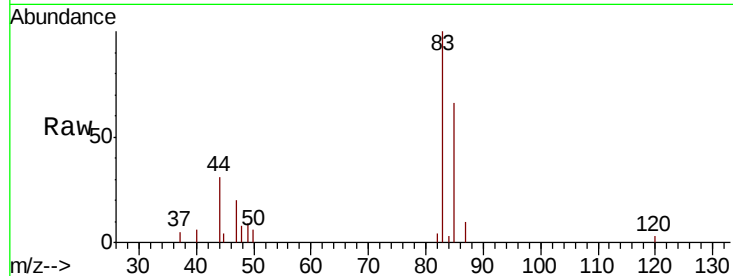




#30
Chloroform
Concen: 0.89 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX004524.D
Acq: 13 Sep 2018 18:48

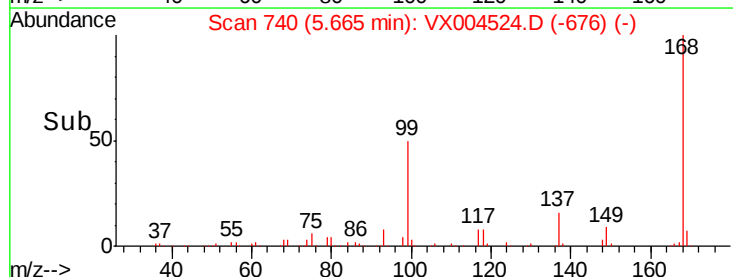
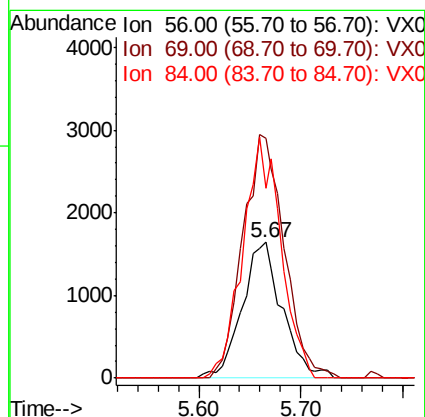
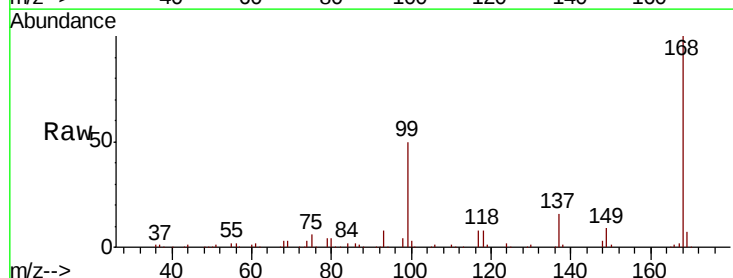
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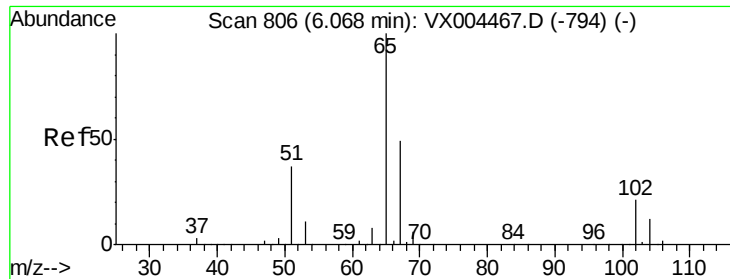
Tot Ion: 83 Resp: 4873
Ion Ratio Lower Upper
83 100
85 66.2 52.6 79.0



#31
Cyclohexane
Concen: 0.94 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004524.D
Acq: 13 Sep 2018 18:48

Tgt Ion: 56 Resp: 4491
Ion Ratio Lower Upper
56 100
69 176.3 25.4 38.2#
84 139.5 71.4 107.2#

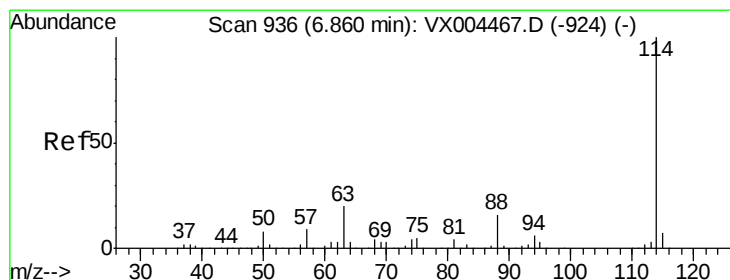
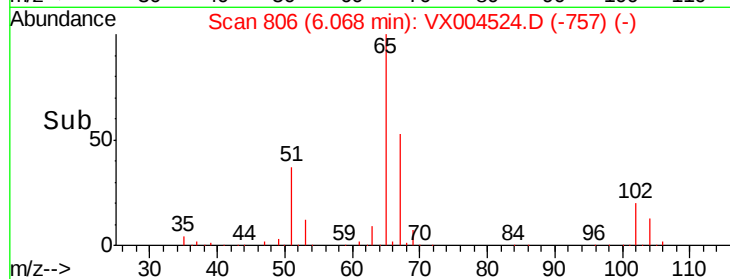
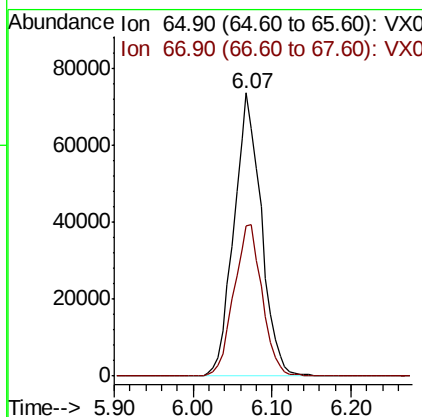
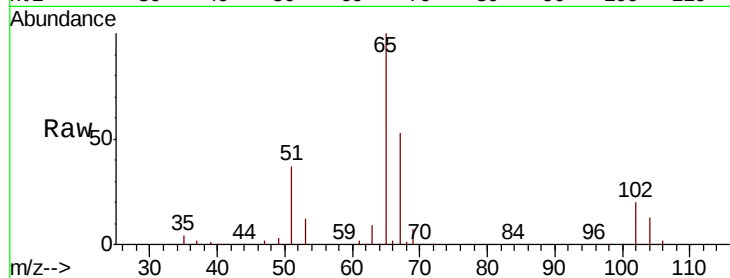




#33
 1,2-Dichloroethane-d4
 Concen: 53.65 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004524.D
 Acq: 13 Sep 2018 18:48

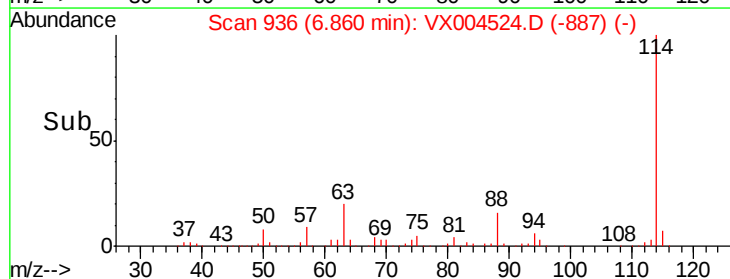
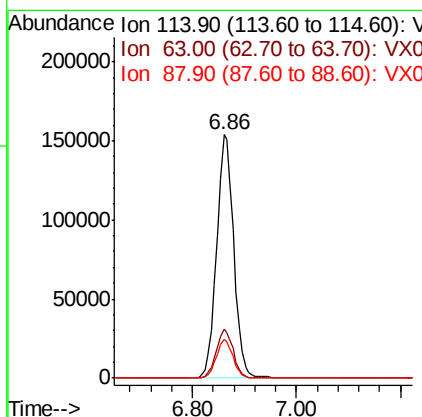
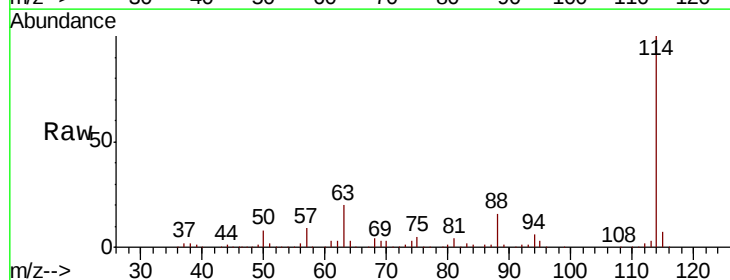
Instrument :
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 C-MW-10-091118

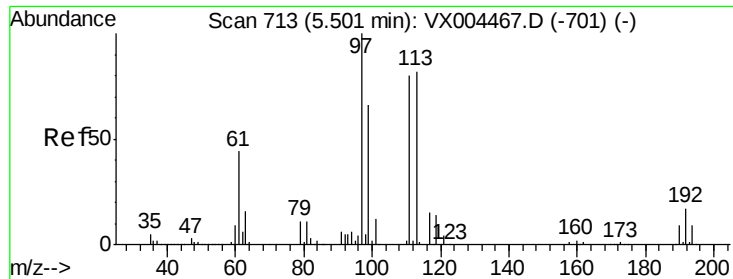
Tot Ion: 65 Resp: 177830
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004524.D
 Acq: 13 Sep 2018 18:48

Tgt Ion: 114 Resp: 359073
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 16.1 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.18 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

Instrument :

MSVOA_X

ClientSampleId :

C-MW-10-091118

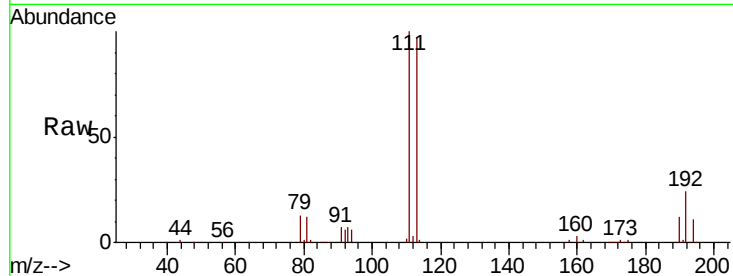
Tot Ion:113 Resp: 161601

Ion Ratio Lower Upper

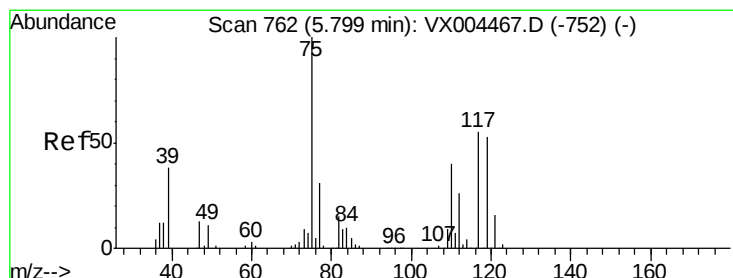
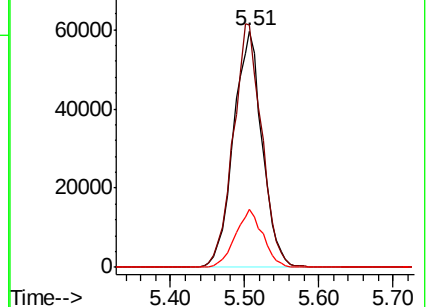
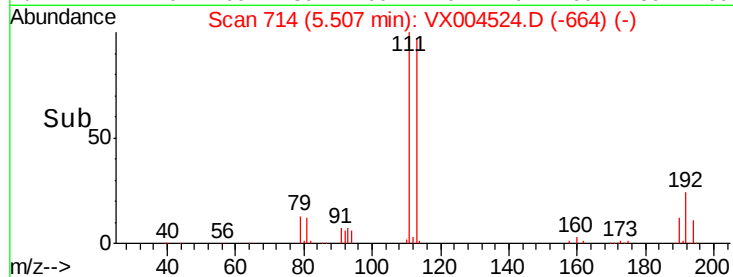
113 100

111 101.7 82.4 123.6

192 23.6 19.4 29.2



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: 3.88 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

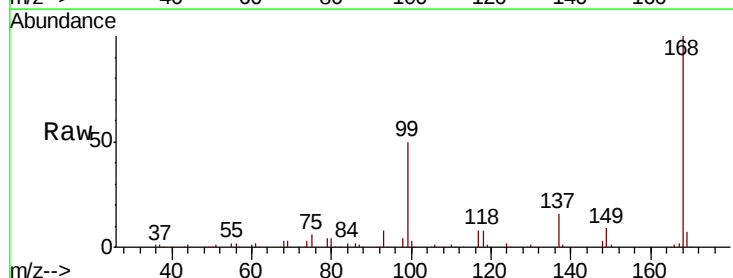
Tgt Ion: 75 Resp: 16907

Ion Ratio Lower Upper

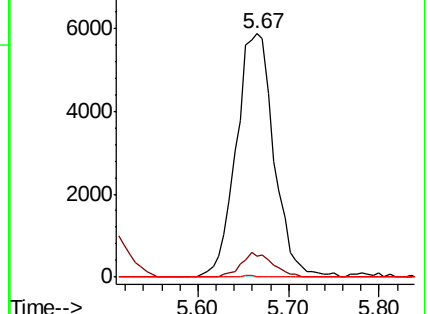
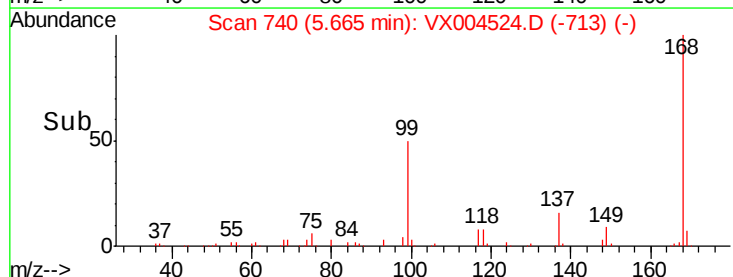
75 100

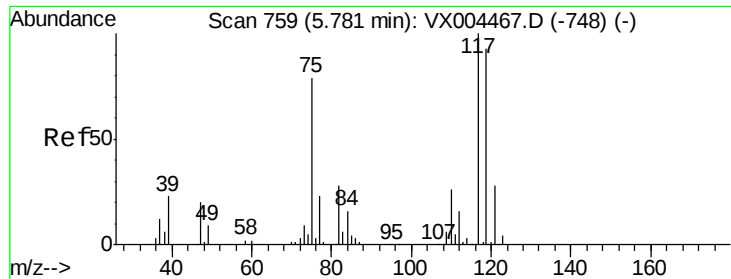
110 8.5 18.0 54.0#

77 0.2 24.6 36.8#



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: 5.21 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

Instrument :

MSVOA_X

ClientSampleId :

C-MW-10-091118

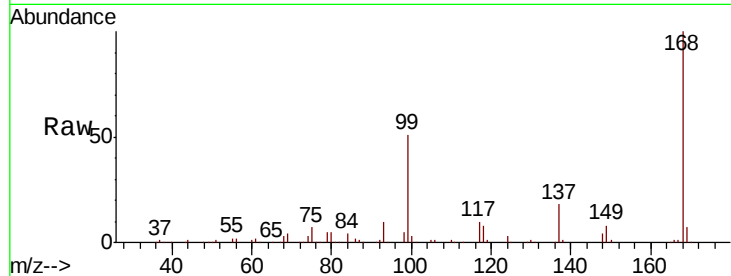
Tot Ion:117 Resp: 22199

Ion Ratio Lower Upper

117 100

119 5.7 78.8 118.2#

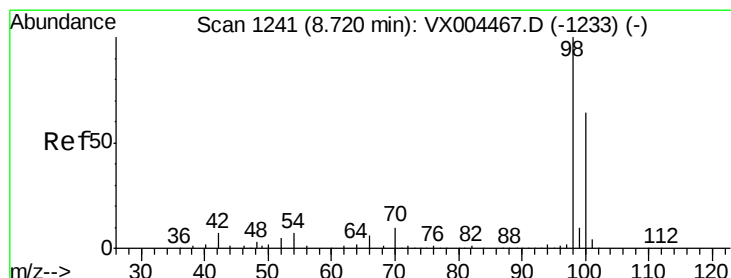
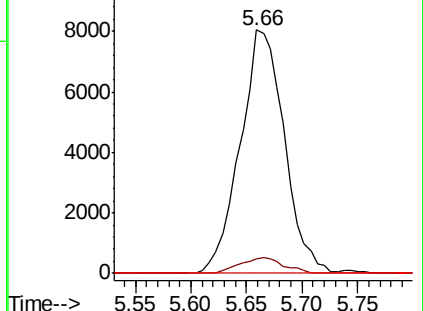
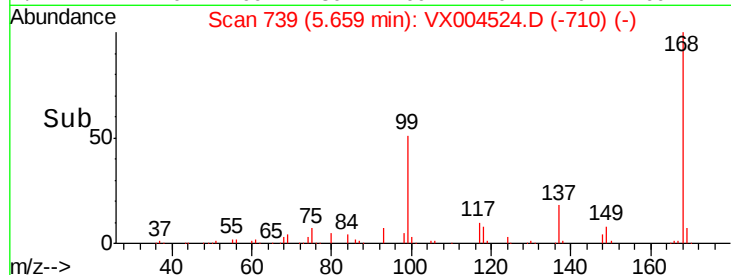
121 0.0 24.9 37.3#



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: 49.13 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004524.D

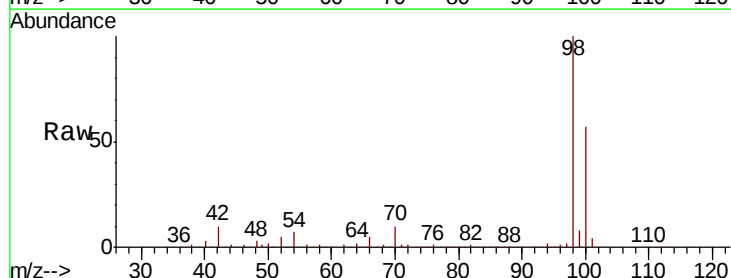
Acq: 13 Sep 2018 18:48

Tgt Ion: 98 Resp: 541351

Ion Ratio Lower Upper

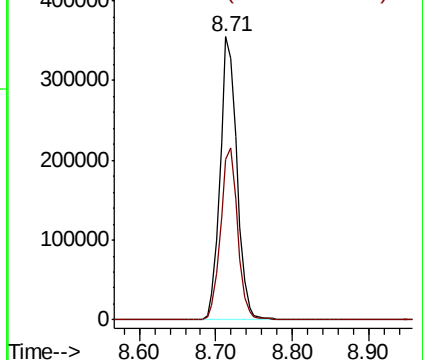
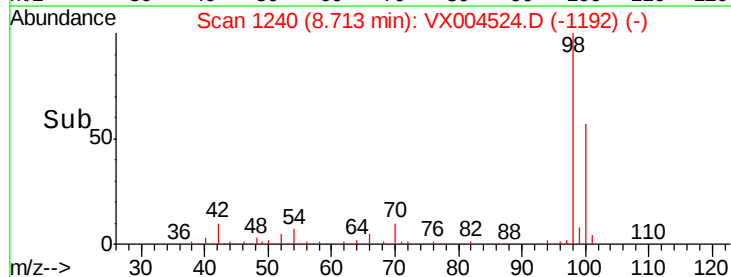
98 100

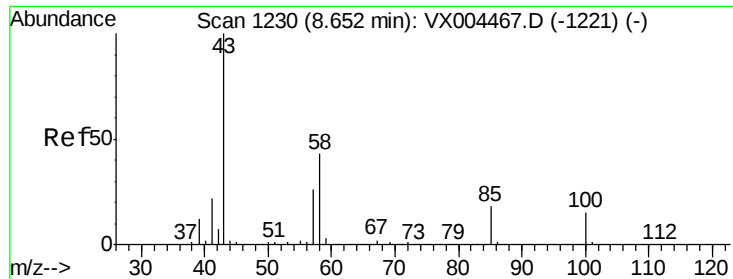
100 61.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

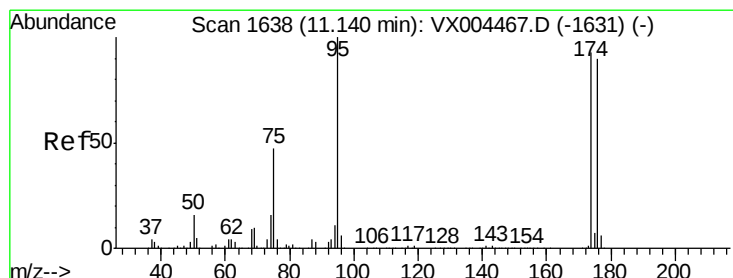
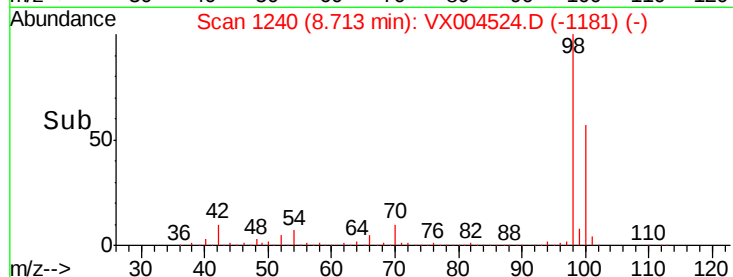
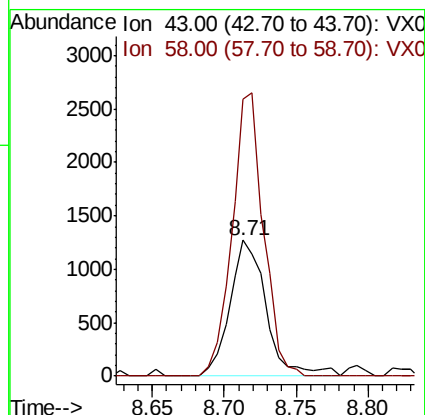
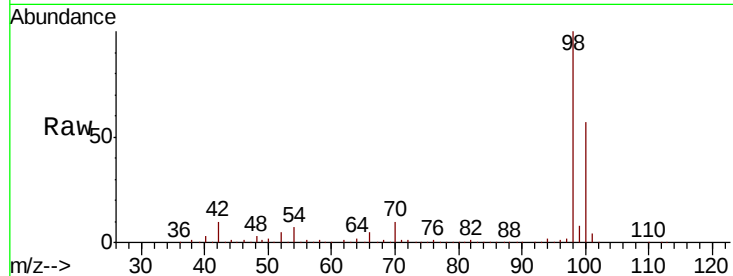




#51
4-Methyl-2-Pentanone
Concen: 0.48 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.06 min
Lab File: VX004524.D
Acq: 13 Sep 2018 18:48

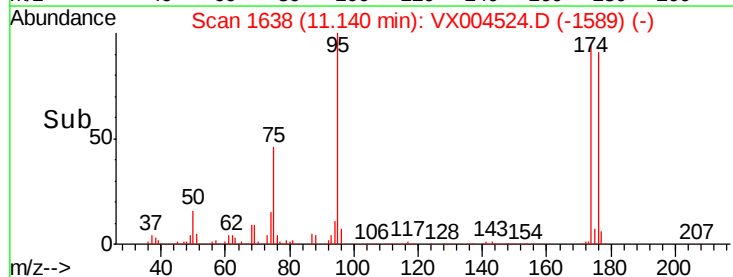
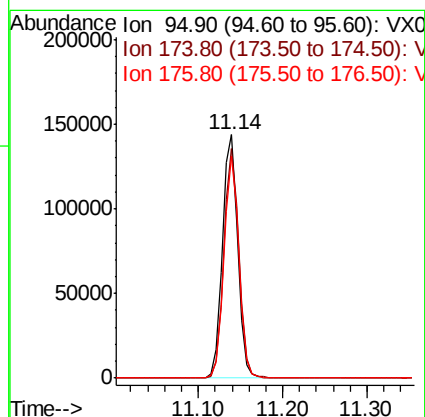
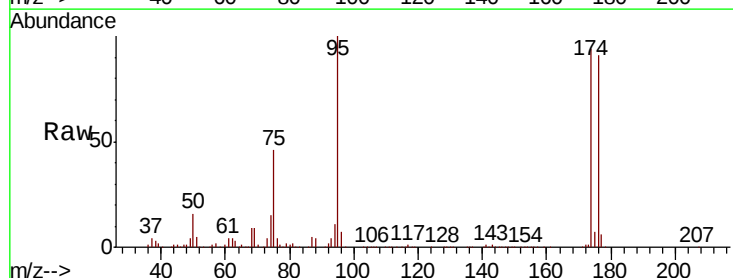
Instrument :
MSVOA_X
ClientSampleId :
C-MW-10-091118

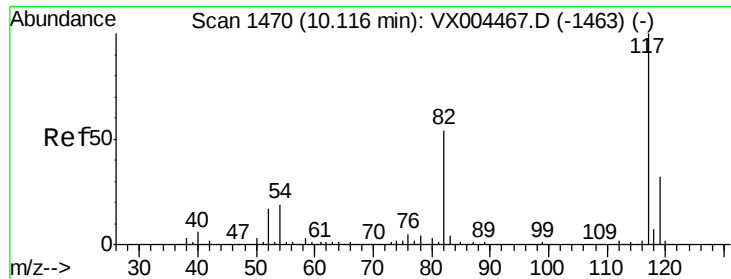
Tot Ion: 43 Resp: 2249
Ion Ratio Lower Upper
43 100
58 178.8 33.1 49.7#



#62
4-Bromofluorobenzene
Concen: 45.99 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004524.D
Acq: 13 Sep 2018 18:48

Tgt Ion: 95 Resp: 180906
Ion Ratio Lower Upper
95 100
174 93.3 0.0 185.2
176 89.5 0.0 178.6

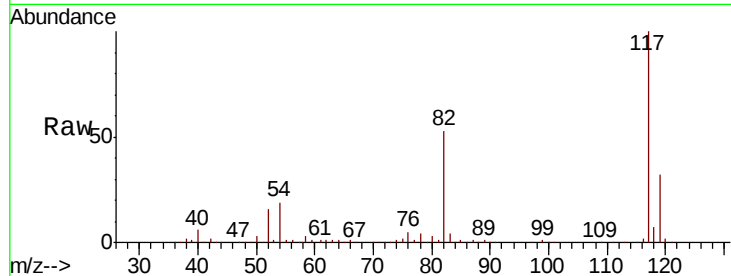




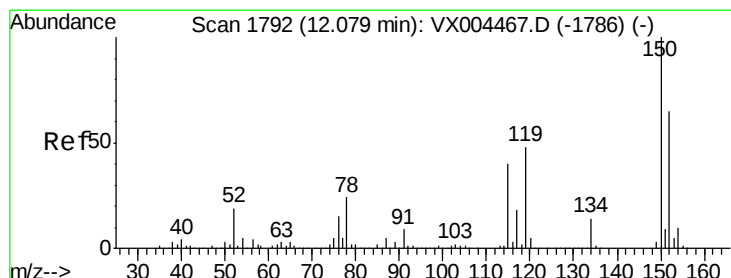
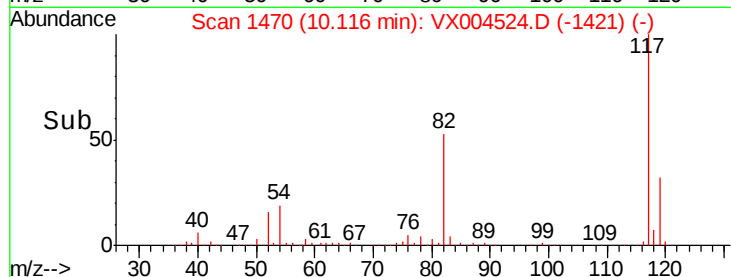
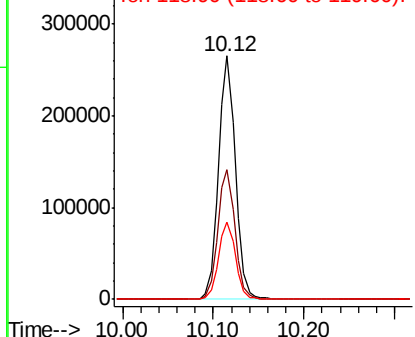
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004524.D
Acq: 13 Sep 2018 18:48

Instrument :
MSVOA_X
ClientSampled :
C-MW-10-091118

Tot Ion:117 Resp: 346009
Ion Ratio Lower Upper
117 100
82 53.3 47.8 71.6
119 31.9 29.3 43.9

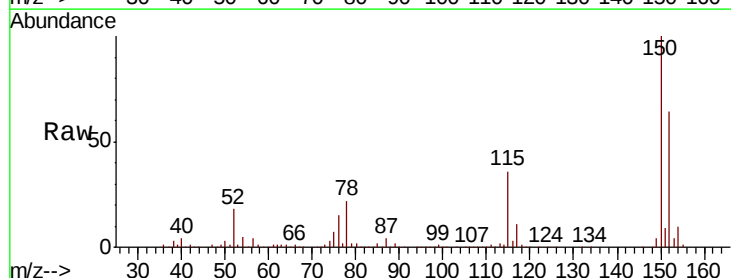


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

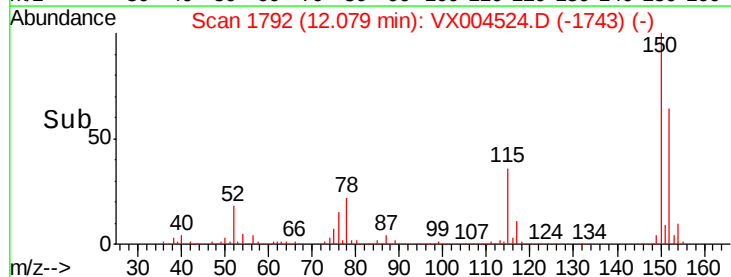
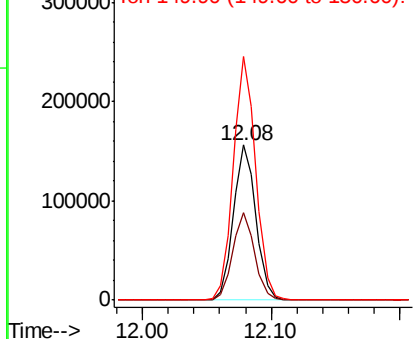


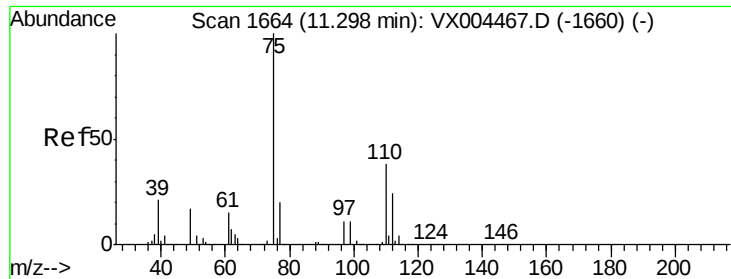
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004524.D
Acq: 13 Sep 2018 18:48

Tgt Ion:152 Resp: 190406
Ion Ratio Lower Upper
152 100
115 55.3 39.0 117.0
150 156.7 0.0 351.0



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: 22.37 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

Instrument :

MSVOA_X

ClientSampleId :

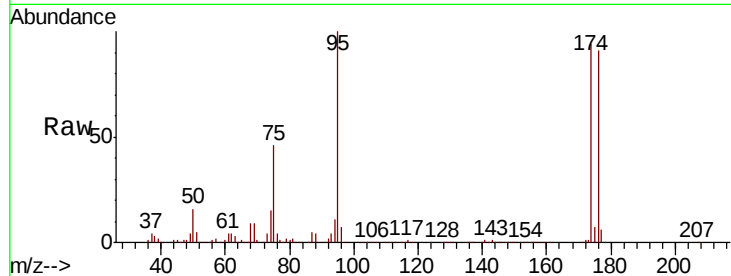
C-MW-10-091118

Tot Ion: 75 Resp: 85710

Ion Ratio Lower Upper

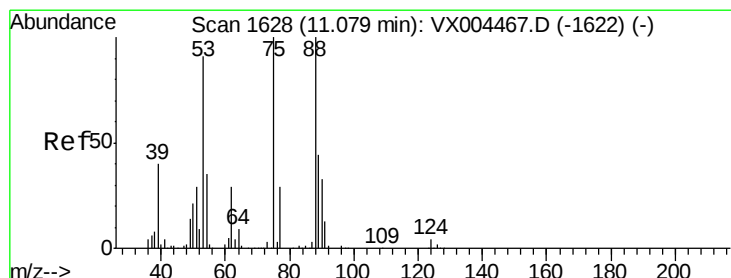
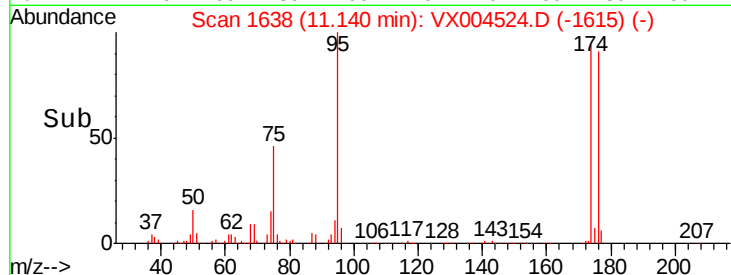
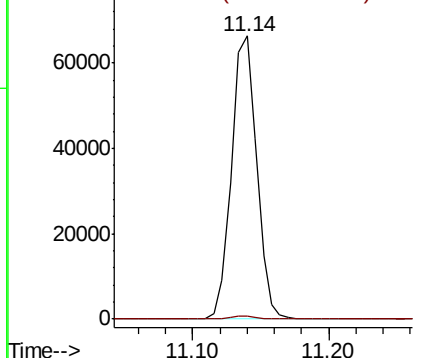
75 100

77 1.3 20.2 60.6#



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: 71.32 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004524.D

Acq: 13 Sep 2018 18:48

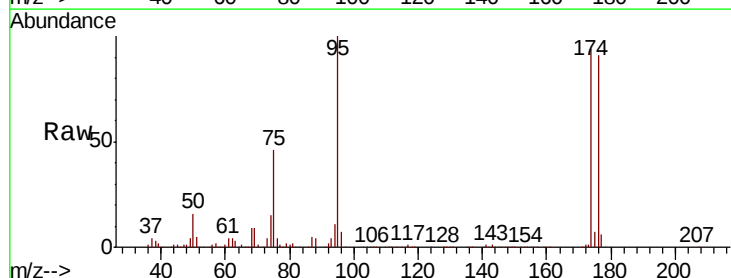
Tgt Ion: 75 Resp: 85710

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

