

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061019\
 Data File : VX010168.D
 Acq On : 10 Jun 2019 11:28
 Operator : JC/SP
 Sample : K3221-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW309D-20190605

Quant Time: Jun 11 02:35:04 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	277185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	414613	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	369855	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	169139	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	122393	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	
35) Dibromofluoromethane	5.50	113	128575	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
50) Toluene-d8	8.71	98	483182	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
62) 4-Bromofluorobenzene	11.13	95	164282	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	

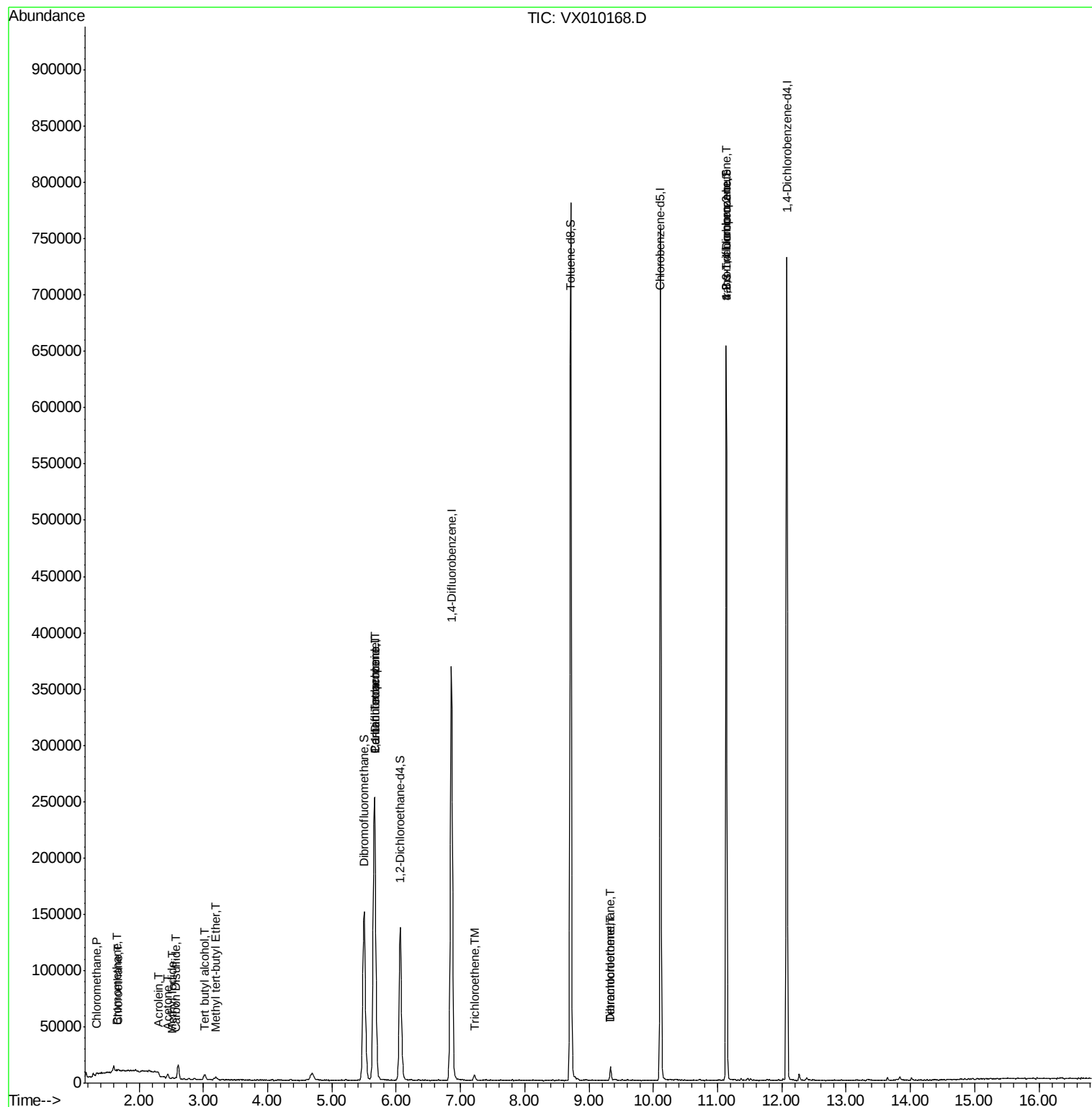
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	523	0.206	ug/l	93
5) Bromomethane	1.65	94	518	0.577	ug/l	83
6) Chloroethane	1.67	64	744	0.620	ug/l #	47
10) Methyl Iodide	2.52	142	903	0.239	ug/l #	90
11) Tert butyl alcohol	3.02	59	2727	4.114	ug/l #	76
13) Acrolein	2.29	56	347	2.871	ug/l #	14
16) Acetone	2.45	43	4236	3.329	ug/l #	84
17) Carbon Disulfide	2.57	76	1651	0.230	ug/l #	43
19) Methyl tert-butyl Ether	3.20	73	2552	0.319	ug/l	99
36) 1,1-Dichloropropene	5.67	75	16365	4.838	ug/l #	53
38) Carbon Tetrachloride	5.66	117	23558	6.153	ug/l #	16
44) Trichloroethene	7.21	130	1780	0.565	ug/l	94
60) Dibromochloromethane	9.34	129	2240	0.673	ug/l #	11
64) Tetrachloroethene	9.34	164	2550	0.928	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	74921	22.146	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	74921	48.929	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Instrument :

MSVOA_X

ClientSampleId :

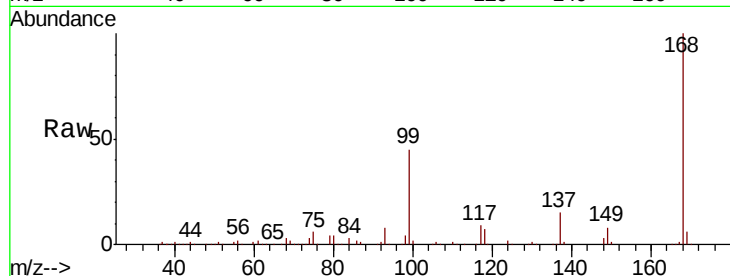
BPS1-TT-MW309D-20190605

Tot Ion:168 Resp: 277185

Ion Ratio Lower Upper

168 100

99 45.4 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

100000

80000

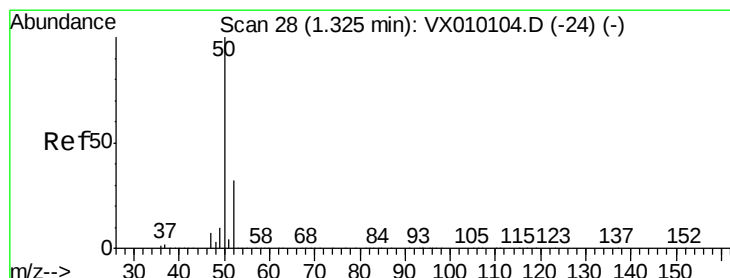
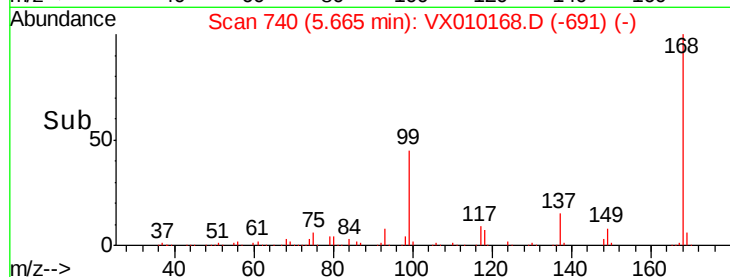
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.206 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010168.D

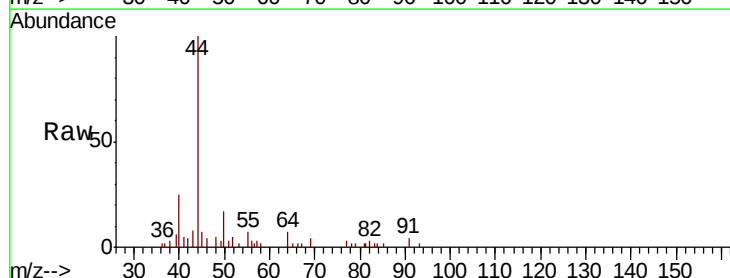
Acq: 10 Jun 2019 11:28

Tgt Ion: 50 Resp: 523

Ion Ratio Lower Upper

50 100

52 36.2 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

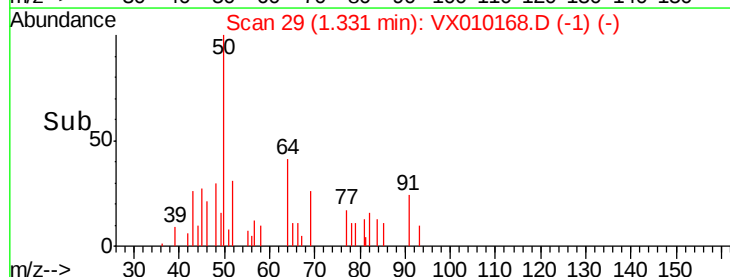
300

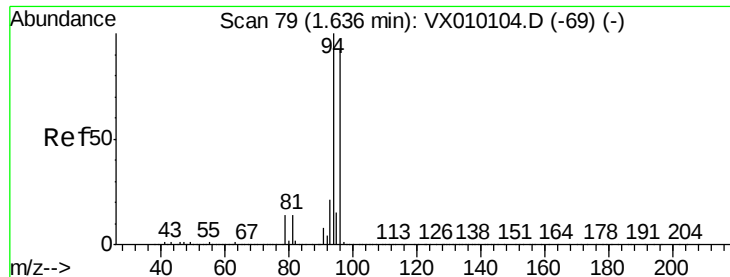
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.577 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Instrument :

MSVOA_X

ClientSampleId :

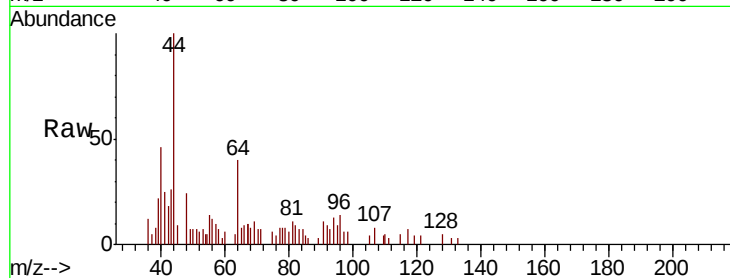
BPS1-TT-MW309D-20190605

Tot Ion: 94 Resp: 518

Ion Ratio Lower Upper

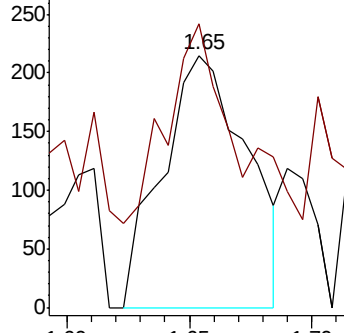
94 100

96 79.1 76.2 114.4

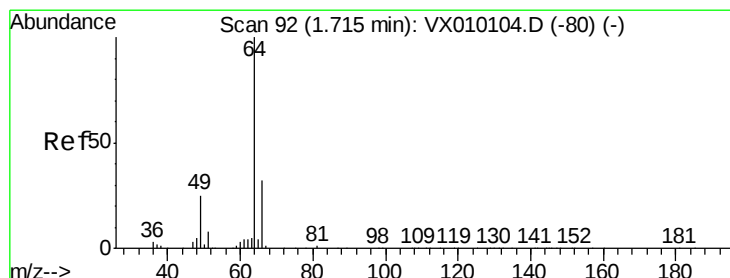
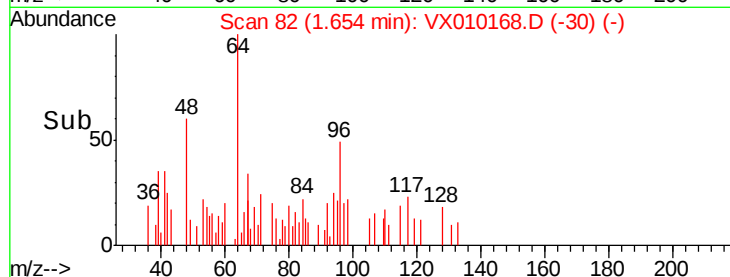


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.620 ug/l

RT: 1.67 min Scan# 85

Delta R.T. -0.04 min

Lab File: VX010168.D

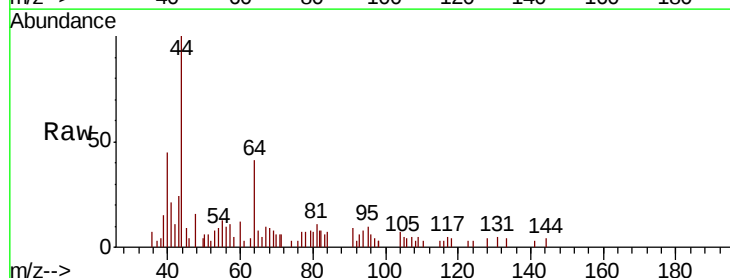
Acq: 10 Jun 2019 11:28

Tgt Ion: 64 Resp: 744

Ion Ratio Lower Upper

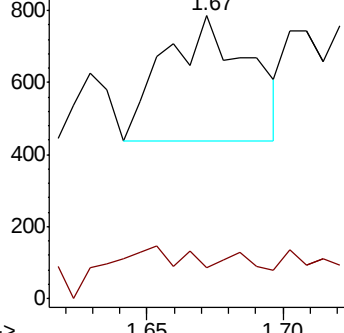
64 100

66 2.0 25.1 37.7#

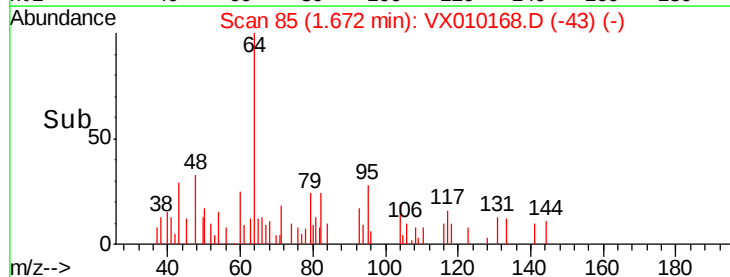


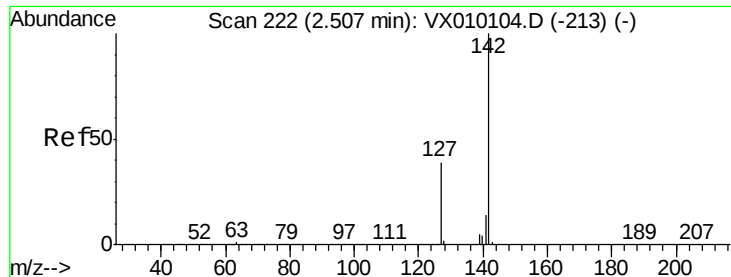
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

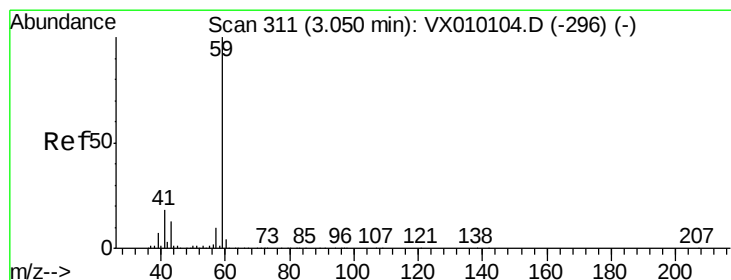
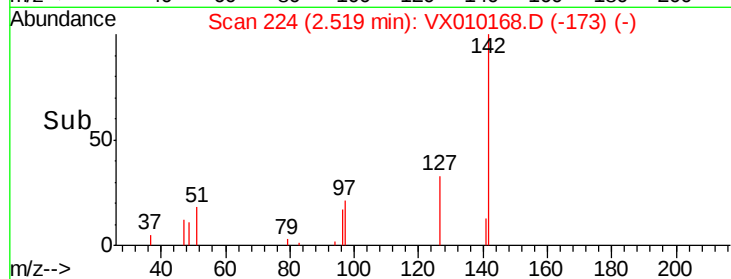
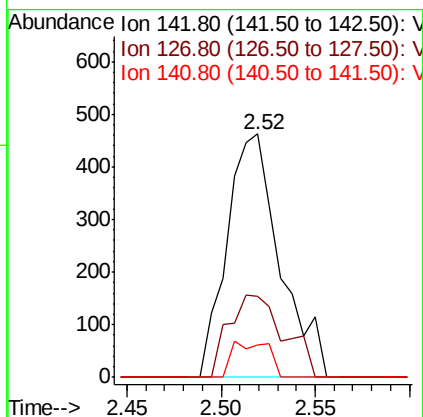
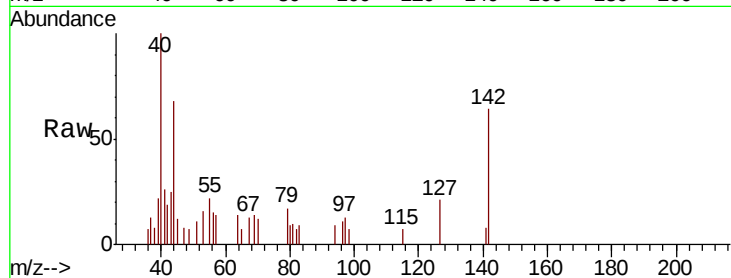




#10
Methvl Iodide
Concen: 0.239 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010168.D
Acq: 10 Jun 2019 11:28

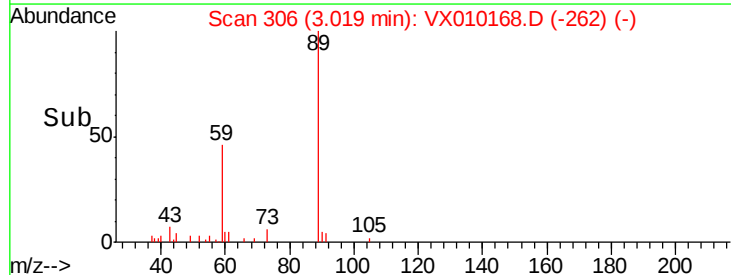
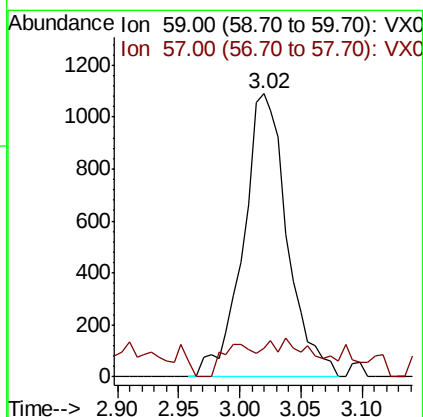
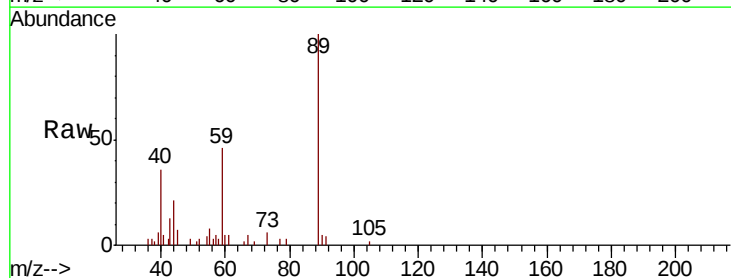
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW309D-20190605

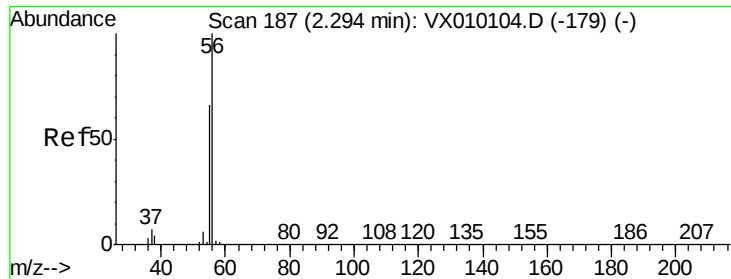
Tot Ion:142 Resp: 903
Ion Ratio Lower Upper
142 100
127 35.2 33.0 49.4
141 10.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 4.114 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010168.D
Acq: 10 Jun 2019 11:28

Tgt Ion: 59 Resp: 2727
Ion Ratio Lower Upper
59 100
57 1.1 8.2 12.2#





#13

Acrolein

Concen: 2.871 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Instrument :

MSVOA_X

ClientSampleId :

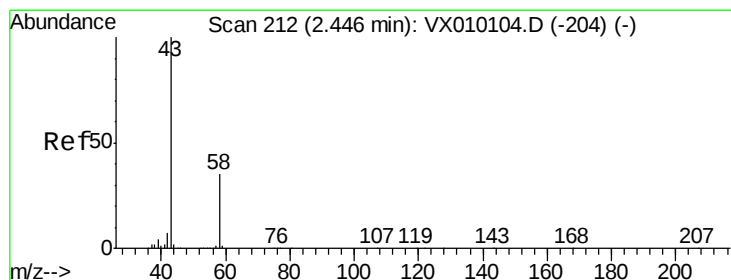
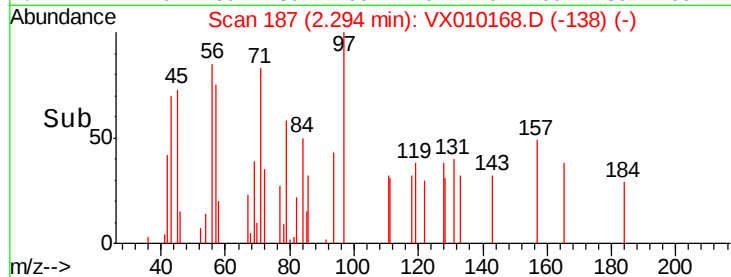
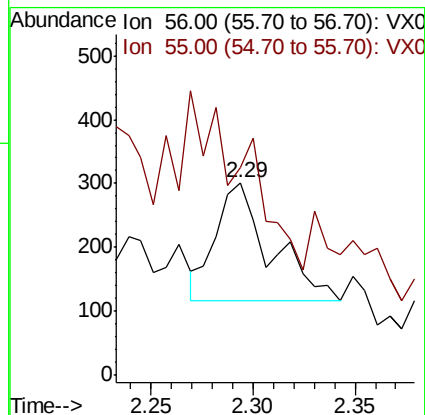
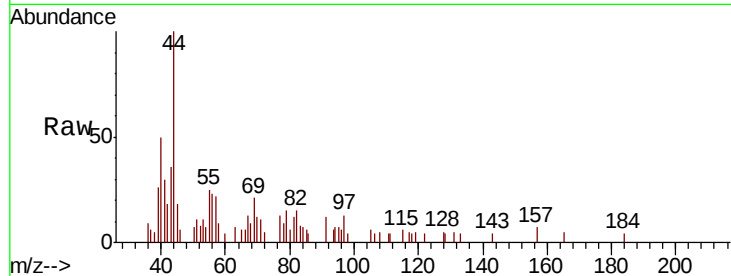
BPS1-TT-MW309D-20190605

Tot Ion: 56 Resp: 347

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 3.329 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010168.D

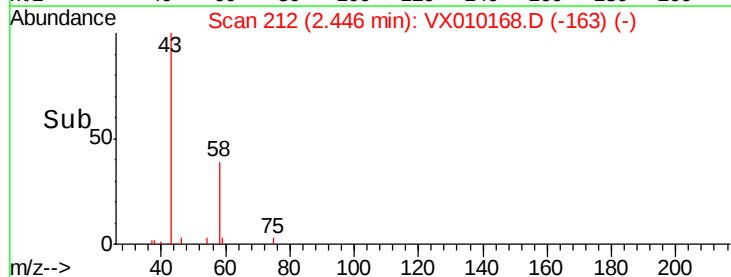
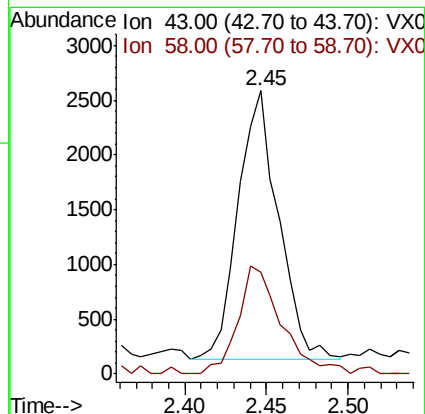
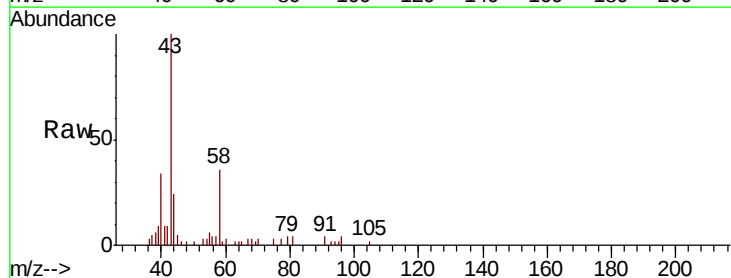
Acq: 10 Jun 2019 11:28

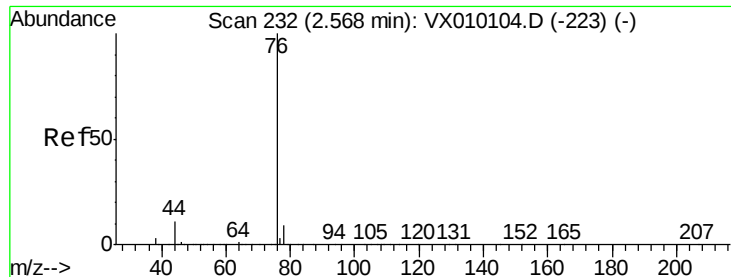
Tgt Ion: 43 Resp: 4236

Ion Ratio Lower Upper

43 100

58 37.7 23.2 34.8#





#17

Carbon Disulfide

Concen: 0.230 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Instrument :

MSVOA_X

ClientSampleId :

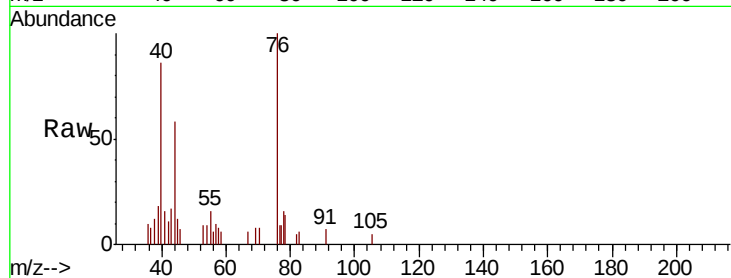
BPS1-TT-MW309D-20190605

Tot Ion: 76 Resp: 1651

Ion Ratio Lower Upper

76 100

78 29.2 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1200

1000

800

600

400

200

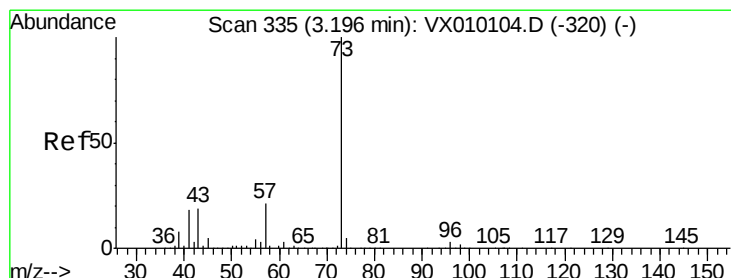
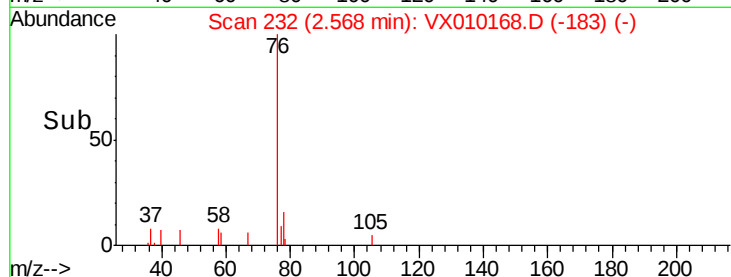
0

Time-->

2.50

2.55

2.60



#19

Methyl tert-butyl Ether

Concen: 0.319 ug/l

RT: 3.20 min Scan# 336

Delta R.T. 0.01 min

Lab File: VX010168.D

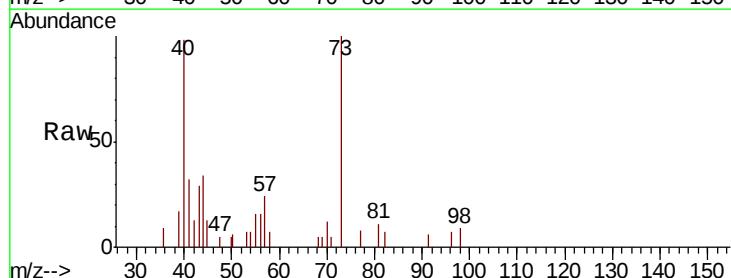
Acq: 10 Jun 2019 11:28

Tgt Ion: 73 Resp: 2552

Ion Ratio Lower Upper

73 100

57 23.8 19.4 29.2



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.20

1000

800

600

400

200

0

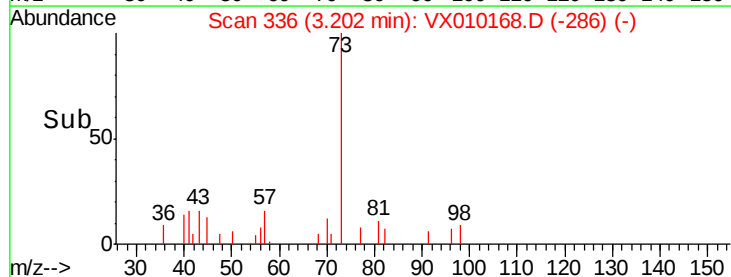
Time-->

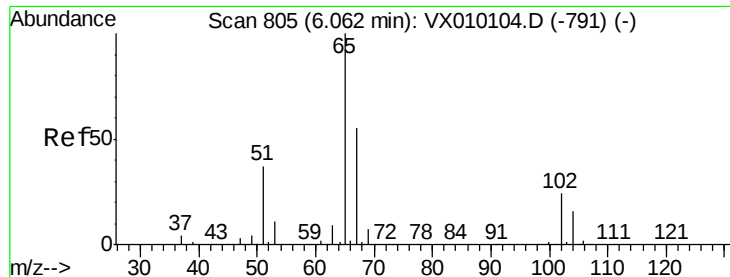
3.10

3.15

3.20

3.25





#33

1,2-Dichloroethane-d4

Concen: 45.236 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Instrument :

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ClientSampleId :

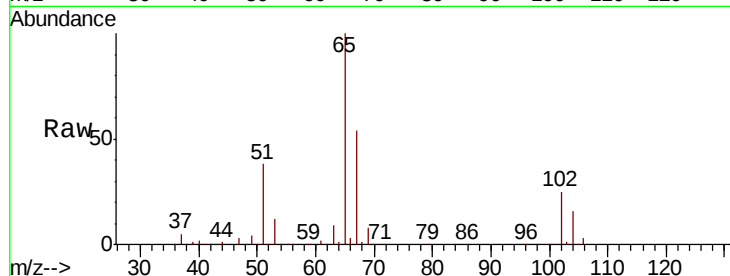
BPS1-TT-MW309D-20190605

Tot Ion: 65 Resp: 122393

Ion Ratio Lower Upper

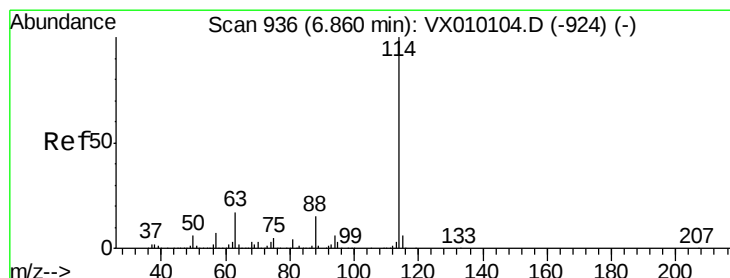
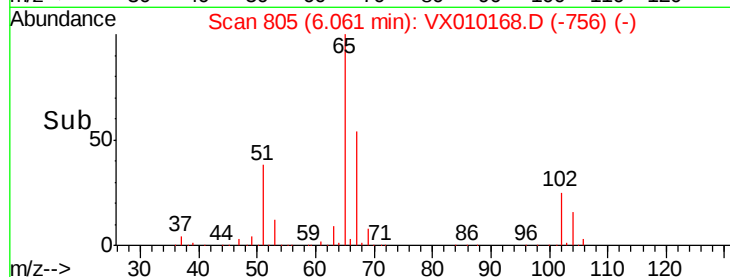
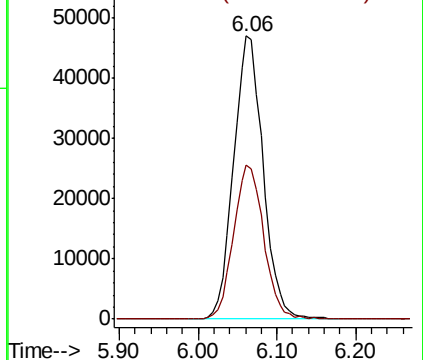
65 100

67 55.7 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: VX010168.D

Acq: 10 Jun 2019 11:28

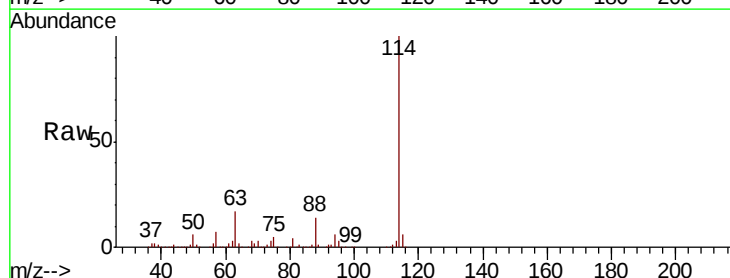
Tgt Ion: 114 Resp: 414613

Ion Ratio Lower Upper

114 100

63 16.6 0.0 47.4

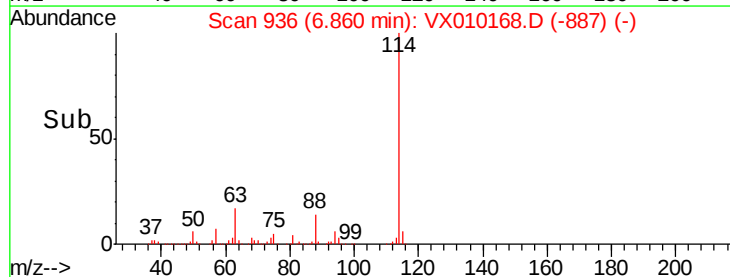
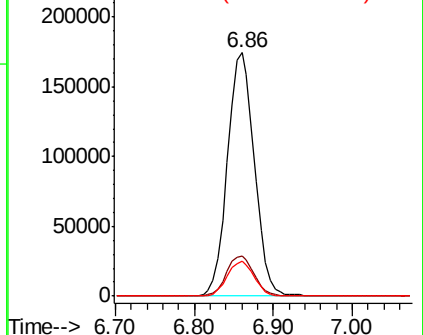
88 14.4 0.0 33.0

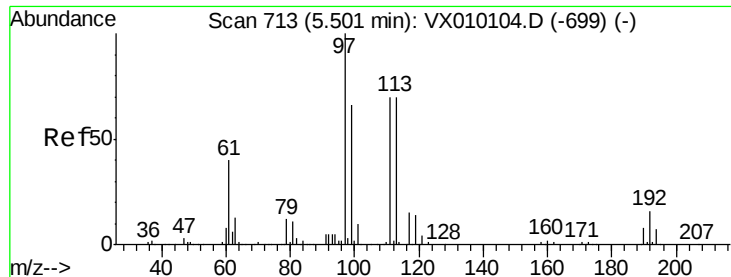


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.275 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

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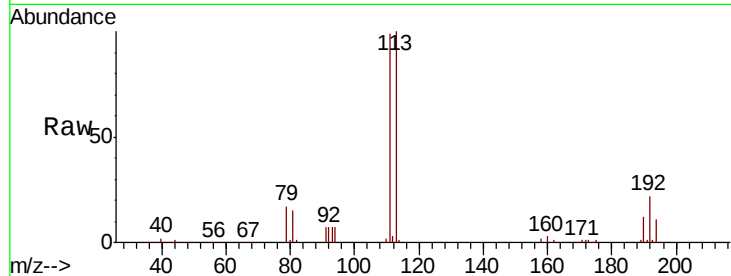
Tot Ion:113 Resp: 128575

Ion Ratio Lower Upper

113 100

111 101.3 82.2 123.2

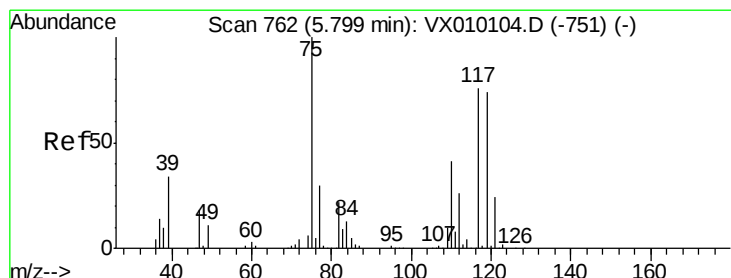
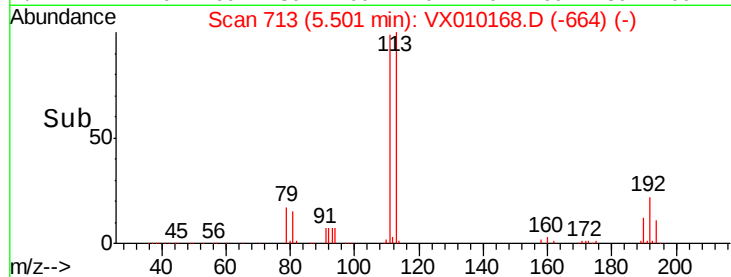
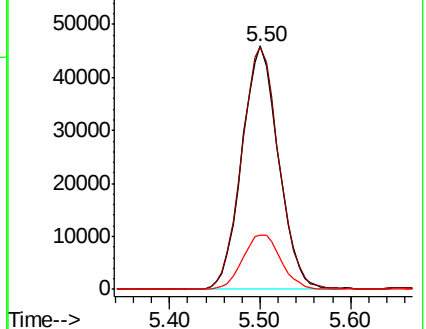
192 23.4 17.1 25.7



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: 4.838 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

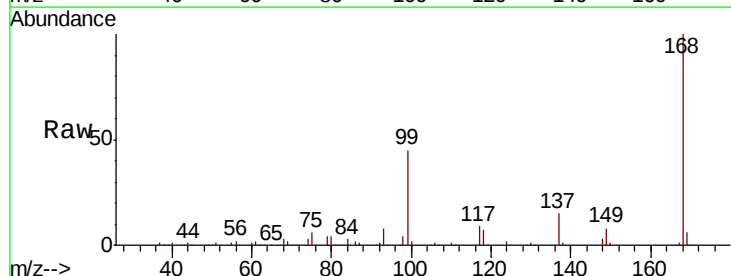
Tgt Ion: 75 Resp: 16365

Ion Ratio Lower Upper

75 100

110 11.1 16.7 50.1#

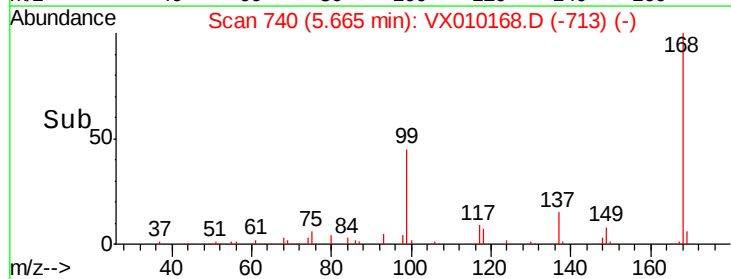
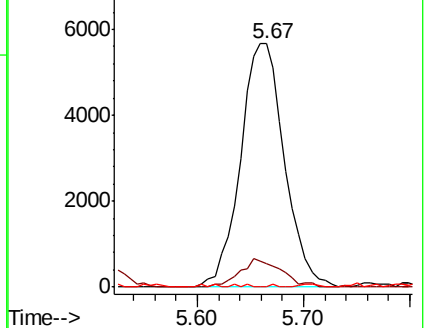
77 0.2 25.0 37.4#

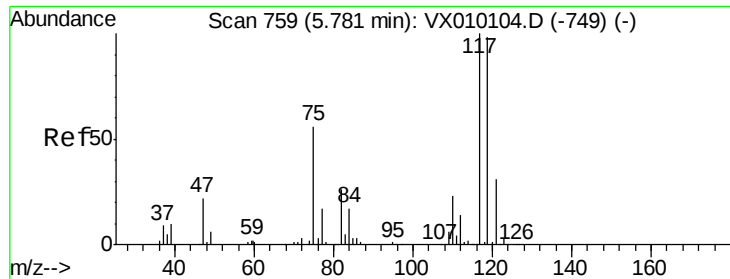


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

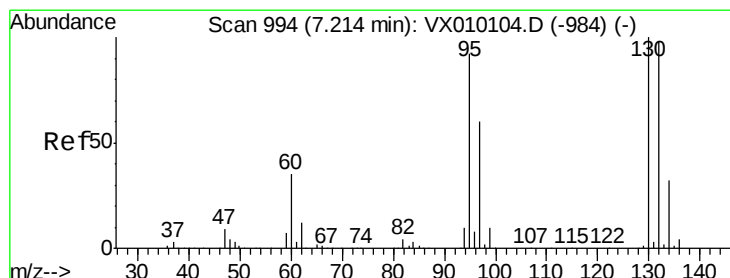
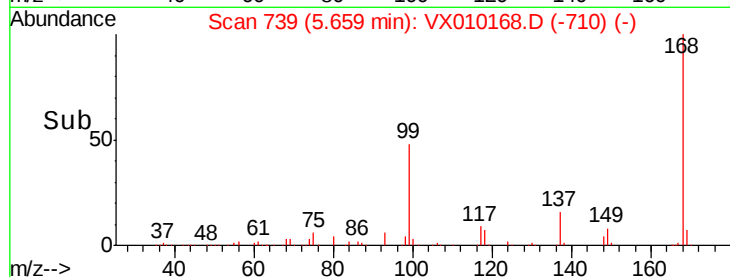
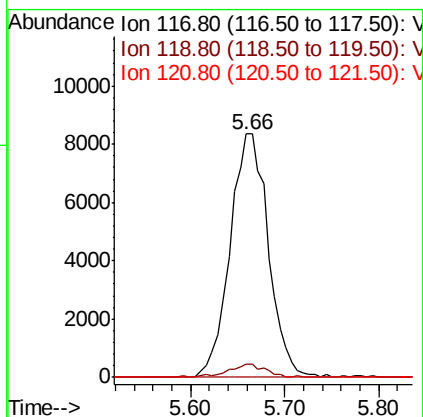
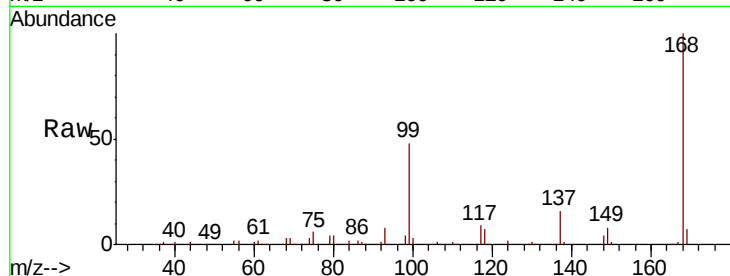




#38
Carbon Tetrachloride
Concen: 6.153 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX010168.D
Acq: 10 Jun 2019 11:28

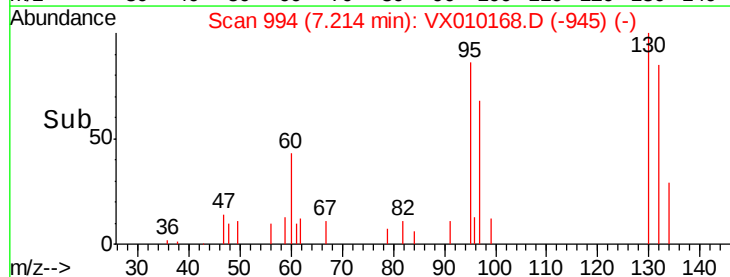
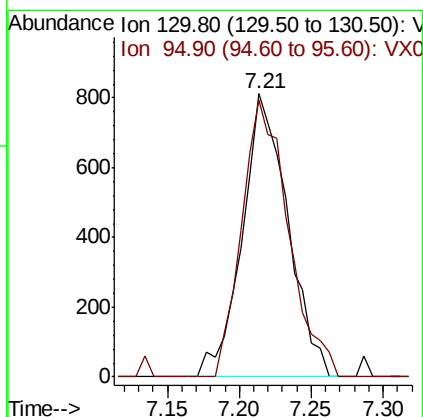
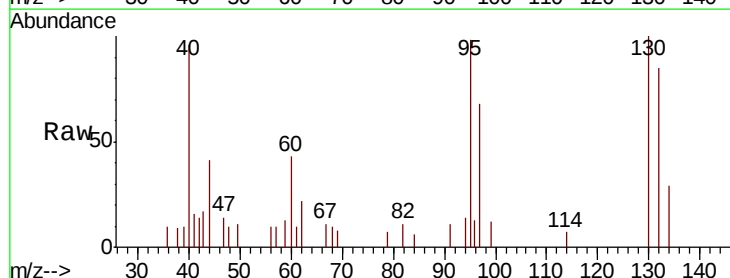
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW309D-20190605

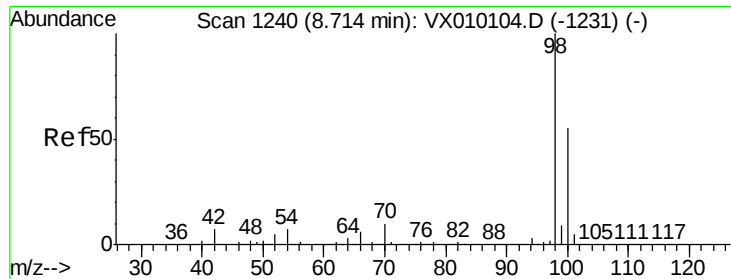
Tot Ion:117 Resp: 23558
Ion Ratio Lower Upper
117 100
119 5.3 77.3 115.9#
121 0.0 25.4 38.0#



#44
Trichloroethene
Concen: 0.565 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX010168.D
Acq: 10 Jun 2019 11:28

Tgt Ion:130 Resp: 1780
Ion Ratio Lower Upper
130 100
95 97.8 0.0 207.4





#50

Toluene-d8

Concen: 50.411 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Instrument :

MSVOA_X

ClientSampleId :

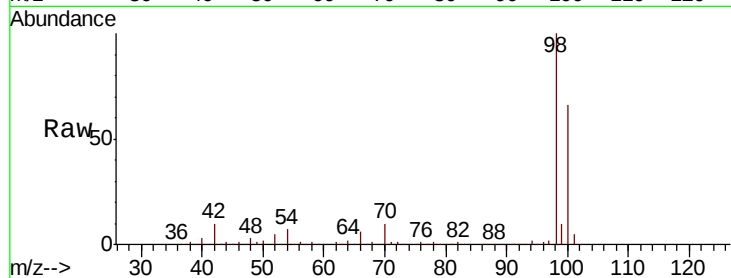
BPS1-TT-MW309D-20190605

Tot Ion: 98 Resp: 483182

Ion Ratio Lower Upper

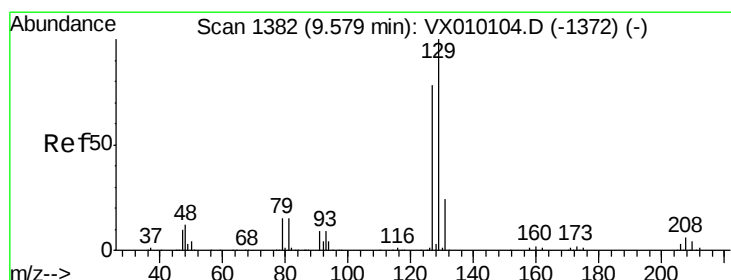
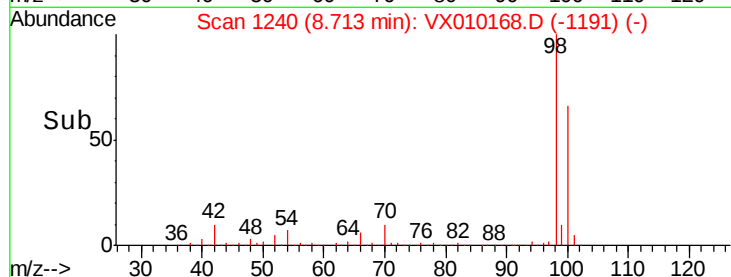
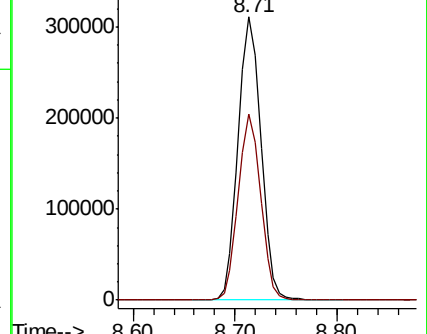
98 100

100 64.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 0.673 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010168.D

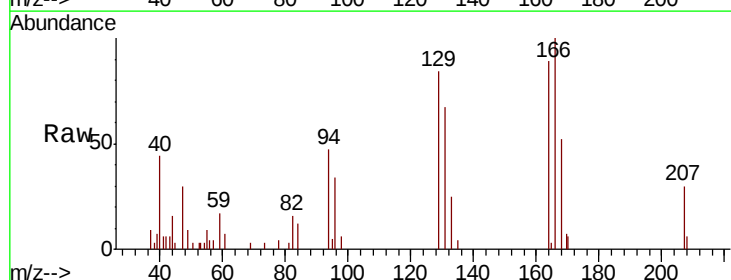
Acq: 10 Jun 2019 11:28

Tgt Ion:129 Resp: 2240

Ion Ratio Lower Upper

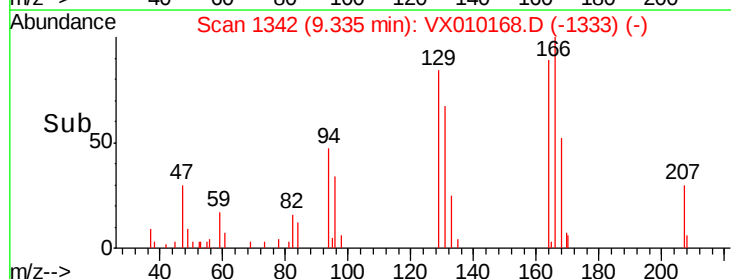
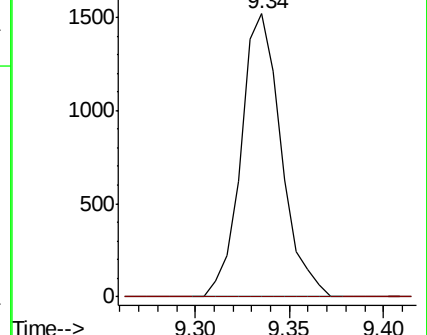
129 100

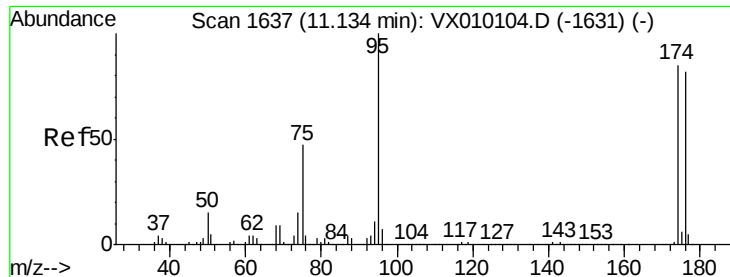
127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.895 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW309D-20190605

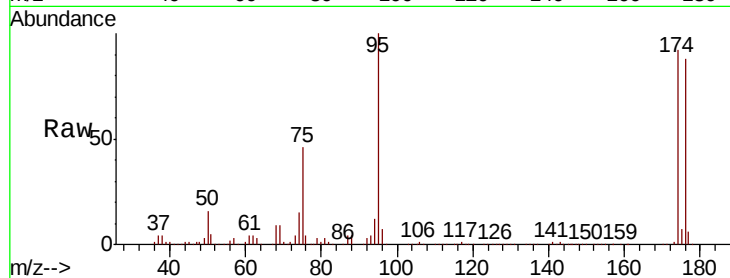
Tot Ion: 95 Resp: 164282

Ion Ratio Lower Upper

95 100

174 94.8 0.0 160.4

176 92.6 0.0 154.6

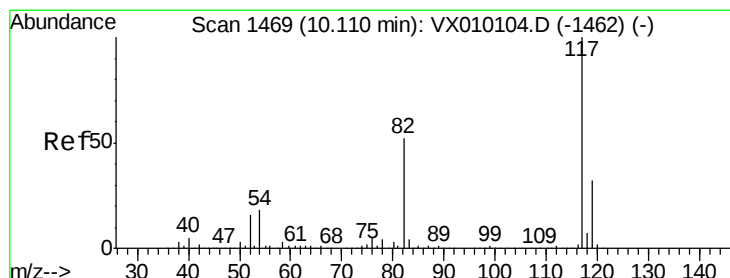
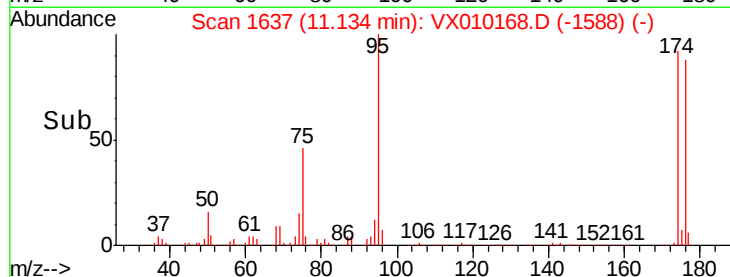


Abundance Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

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: VX010168.D

Acq: 10 Jun 2019 11:28

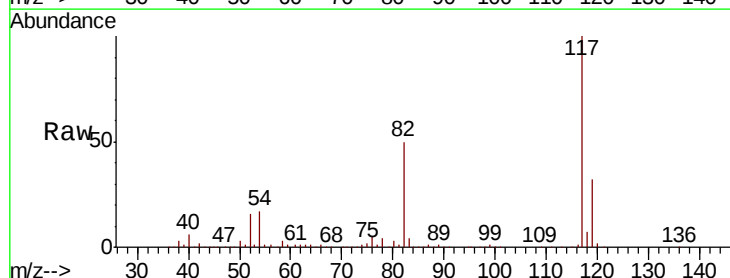
Tgt Ion: 117 Resp: 369855

Ion Ratio Lower Upper

117 100

82 50.5 49.2 73.8

119 32.2 25.2 37.8

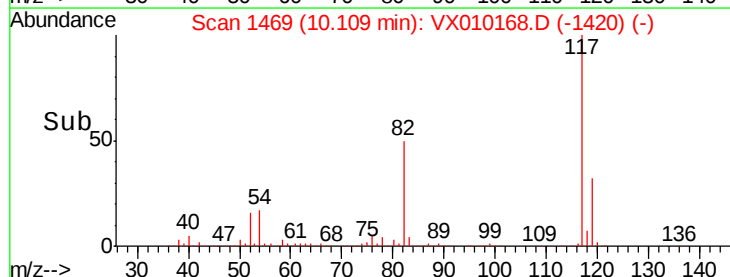


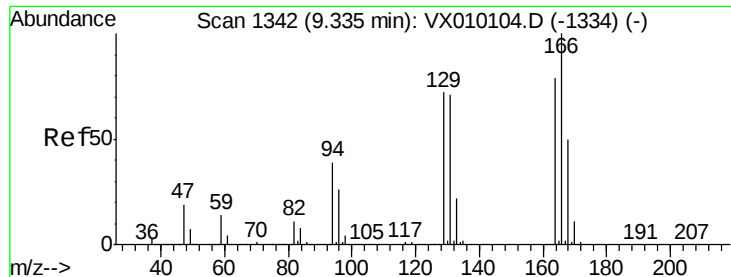
Abundance Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

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

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

Time-->

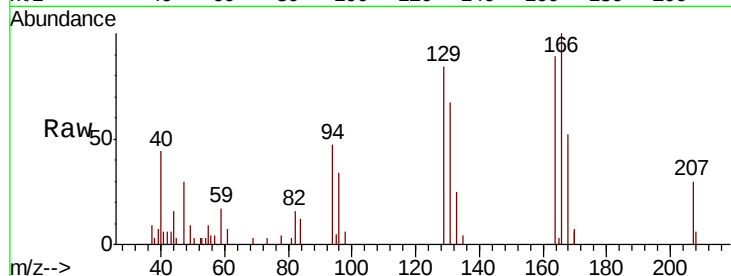




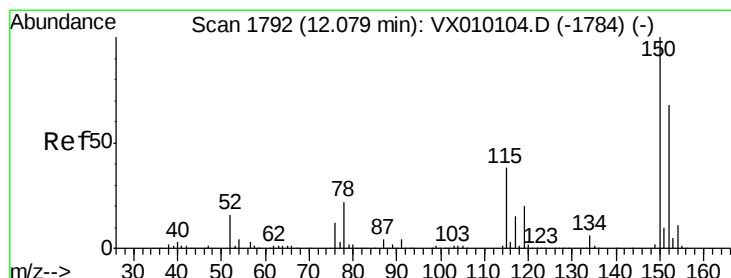
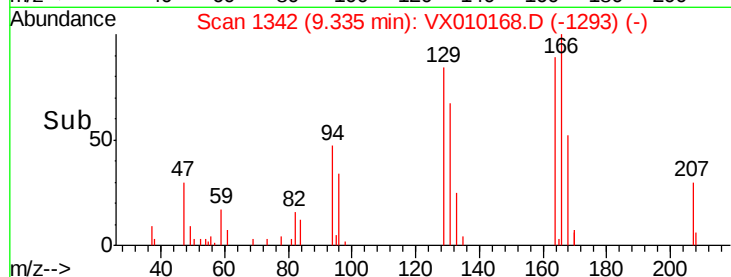
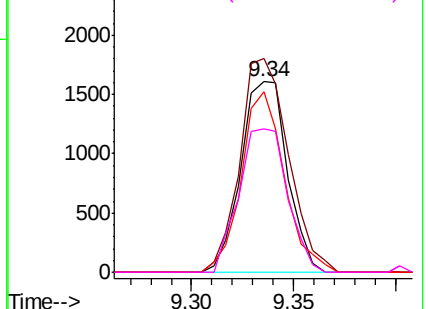
#64
Tetrachloroethene
Concen: 0.928 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX010168.D
Acq: 10 Jun 2019 11:28

Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW309D-20190605

Tot Ion:164 Resp: 2550
Ion Ratio Lower Upper
164 100
166 112.1 105.0 157.4
129 94.5 75.1 112.7
131 75.6 72.2 108.4

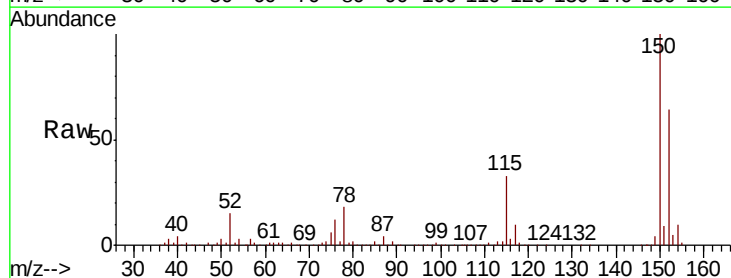


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

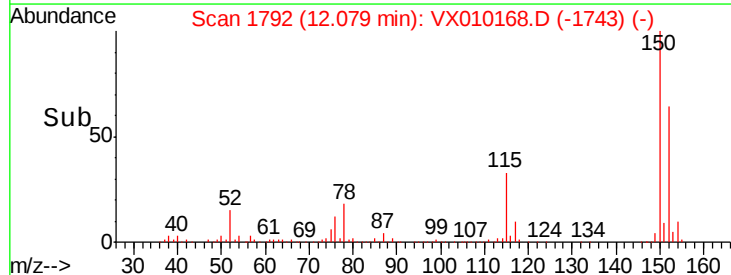
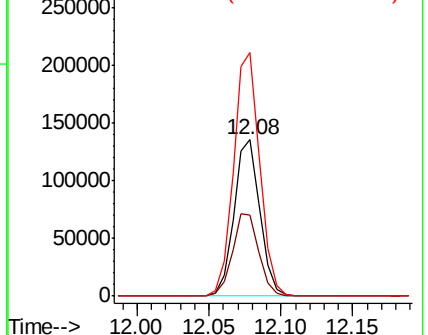


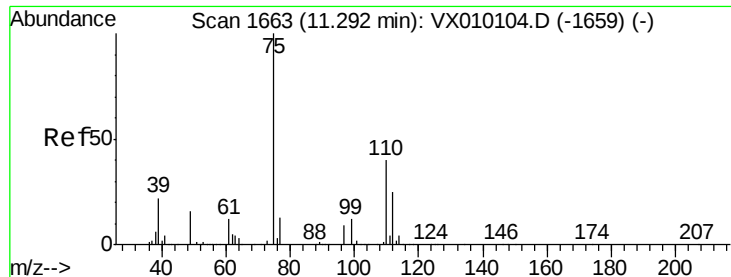
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010168.D
Acq: 10 Jun 2019 11:28

Tgt Ion:152 Resp: 169139
Ion Ratio Lower Upper
152 100
115 53.9 41.4 124.2
150 157.7 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: 22.146 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Instrument :

MSVOA_X

ClientSampleId :

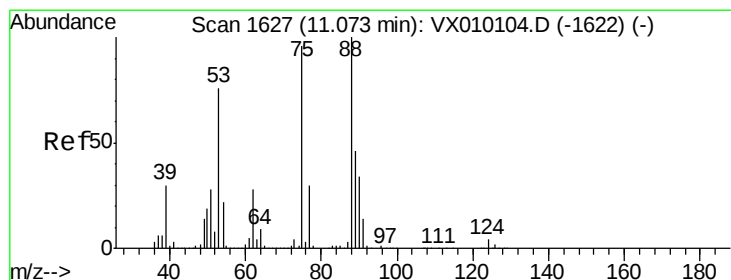
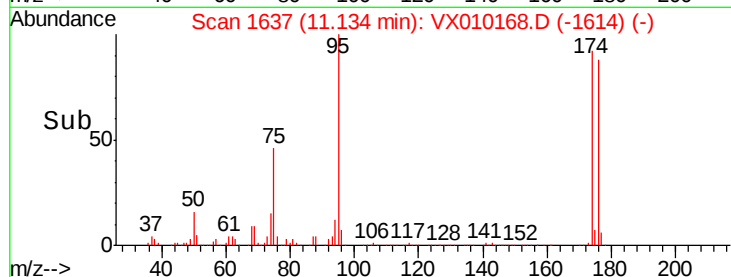
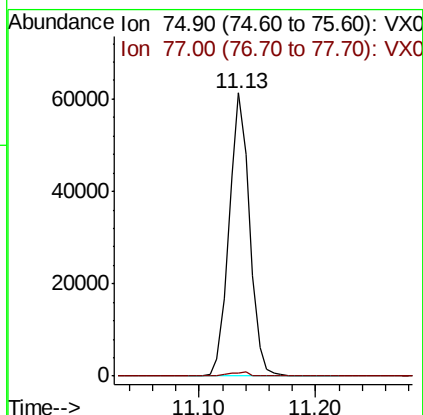
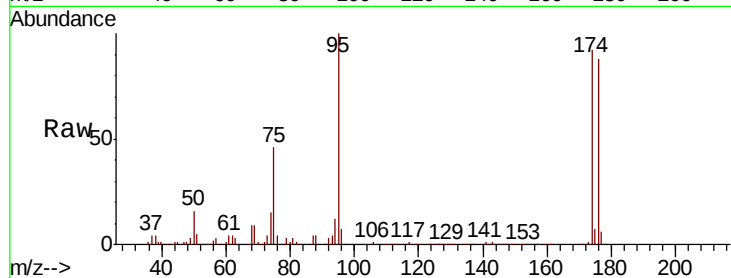
BPS1-TT-MW309D-20190605

Tot Ion: 75 Resp: 74921

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.929 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010168.D

Acq: 10 Jun 2019 11:28

Tgt Ion: 75 Resp: 74921

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 34.2 51.4#

