

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004603.D
 Acq On : 16 Sep 2018 00:26
 Operator : JC/MD
 Sample : J4913-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-AOC22-MW06-20180912

Quant Time: Sep 17 08:44:05 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	249369	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	342579	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	320411	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210881	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	162419	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
35) Dibromofluoromethane	5.50	113	148796	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
50) Toluene-d8	8.72	98	473567	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	
62) 4-Bromofluorobenzene	11.14	95	168972	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	

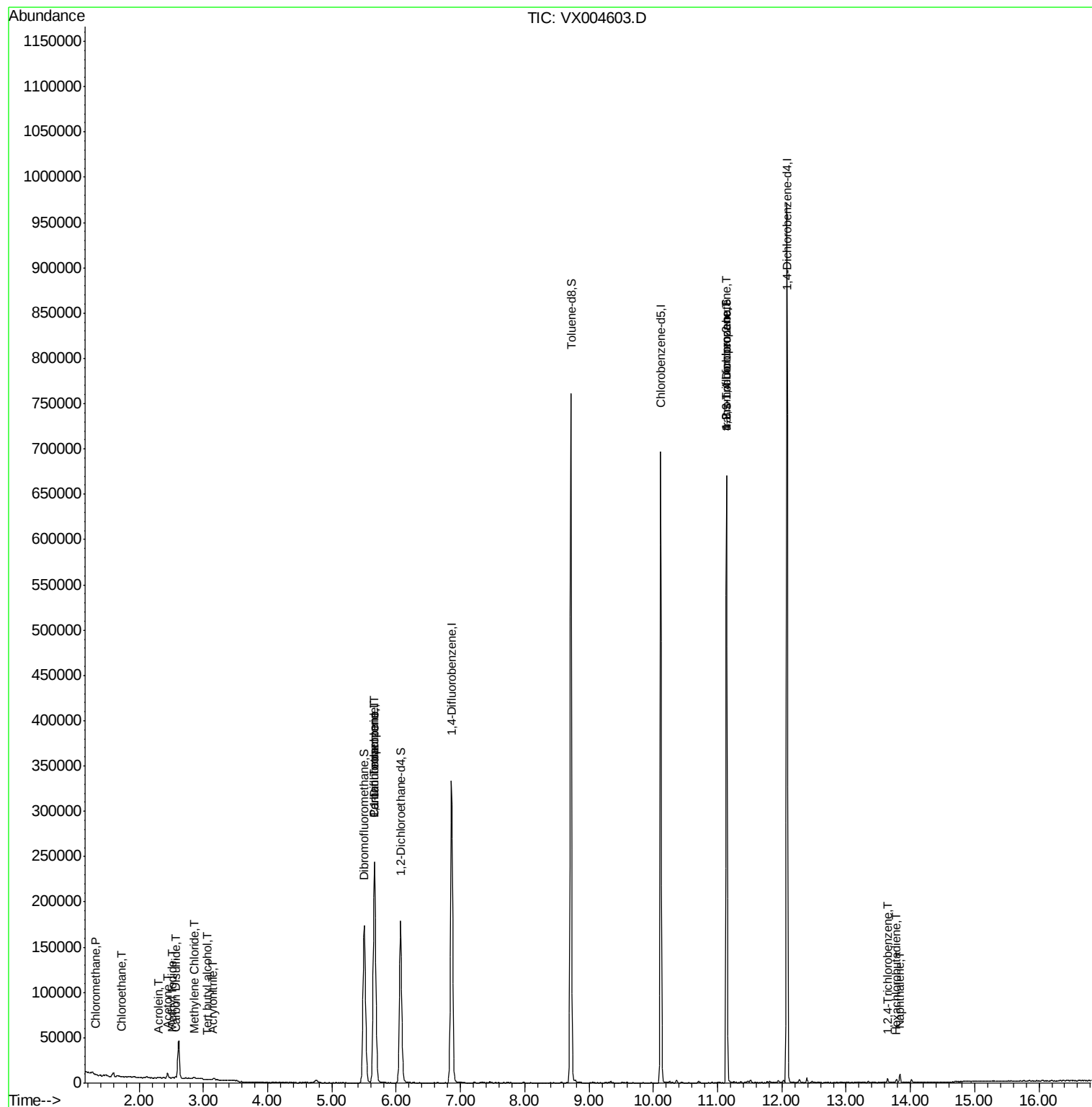
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	920	0.29	ug/l	95
5) Bromomethane	1.65	94	1234	Below Cal		93
6) Chloroethane	1.73	64	595	0.28	ug/l #	44
10) Methyl Iodide	2.52	142	1392	4.64	ug/l	96
11) Tert butyl alcohol	3.06	59	214	0.28	ug/l #	72
13) Acrolein	2.29	56	345	1.14	ug/l #	45
15) Acrylonitrile	3.15	53	563	0.30	ug/l	89
16) Acetone	2.45	43	5621	3.58	ug/l	95
17) Carbon Disulfide	2.57	76	2483	0.33	ug/l	98
20) Methylene Chloride	2.86	84	905	0.28	ug/l	95
36) 1,1-Dichloropropene	5.66	75	16129	3.88	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22224	5.47	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	79359	18.70	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	79359	59.62	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	1294	0.25	ug/l	90
94) Hexachlorobutadiene	13.79	225	729	0.27	ug/l	97
95) Naphthalene	13.83	128	7040	0.49	ug/l	99

(#) = 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: VX004603.D

Acq: 16 Sep 2018 00:26

Instrument :

MSVOA_X

ClientSampleId :

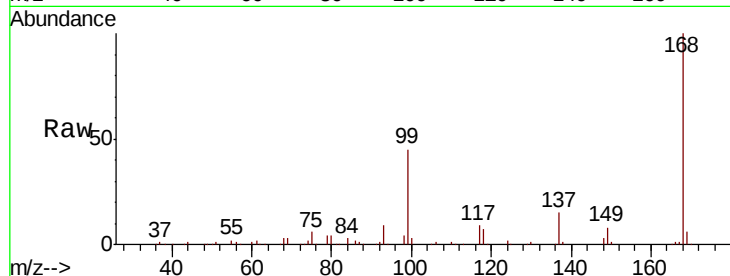
BP-TT-AOC22-MW06-20180912

Tot Ion:168 Resp: 249369

Ion Ratio Lower Upper

168 100

99 45.1 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

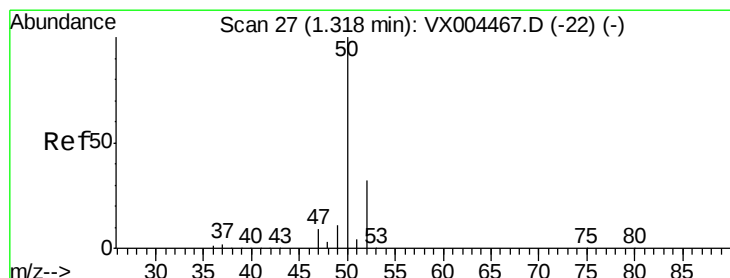
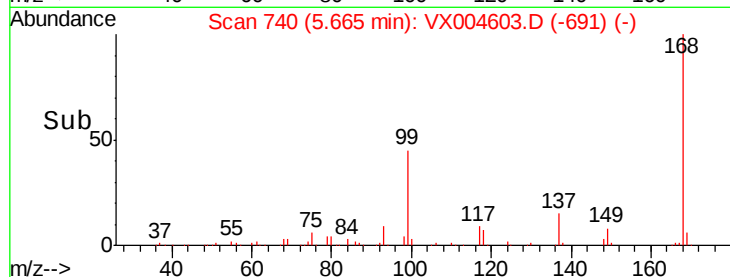
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.29 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004603.D

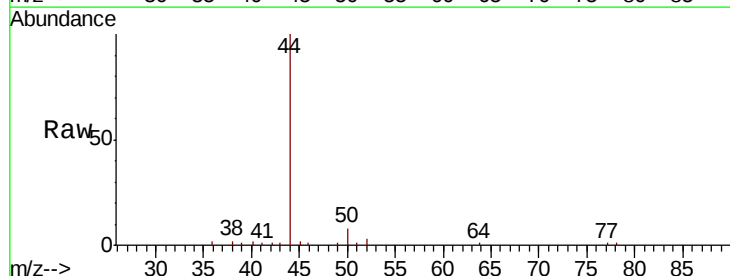
Acq: 16 Sep 2018 00:26

Tgt Ion: 50 Resp: 920

Ion Ratio Lower Upper

50 100

52 35.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

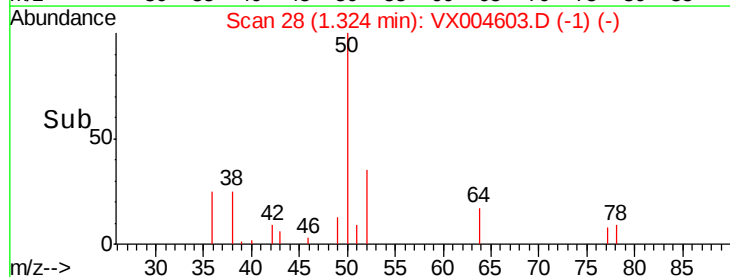
400

200

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

Instrument :

MSVOA_X

ClientSampleId :

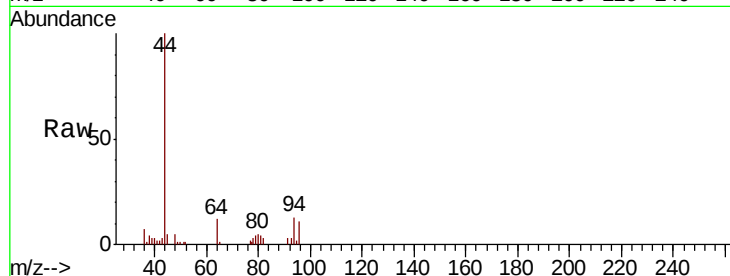
BP-TT-AOC22-MW06-20180912

Tot Ion: 94 Resp: 1234

Ion Ratio Lower Upper

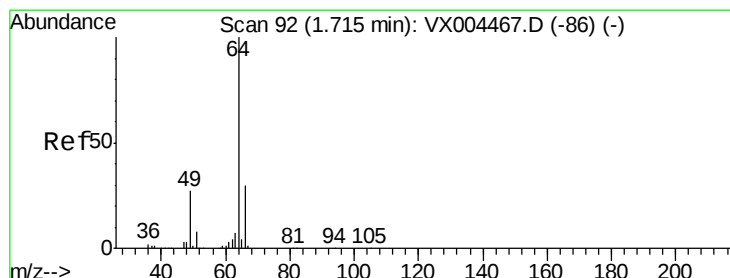
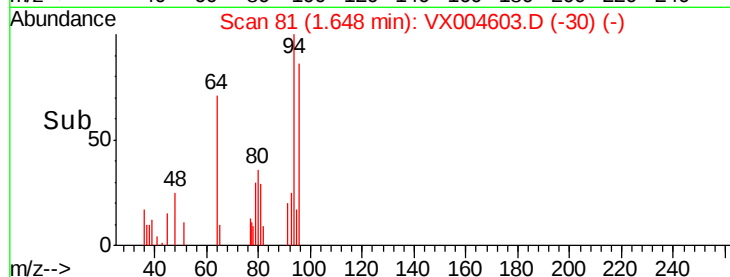
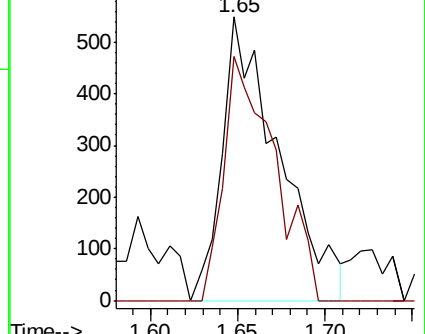
94 100

96 86.1 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.28 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX004603.D

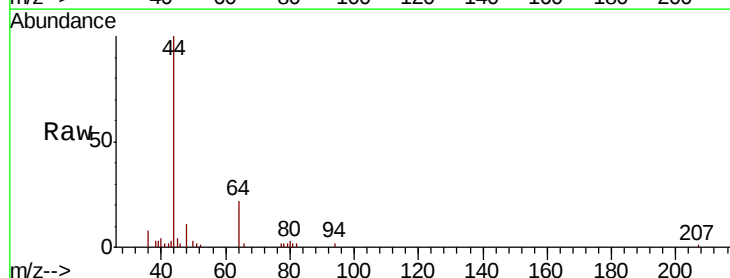
Acq: 16 Sep 2018 00:26

Tgt Ion: 64 Resp: 595

Ion Ratio Lower Upper

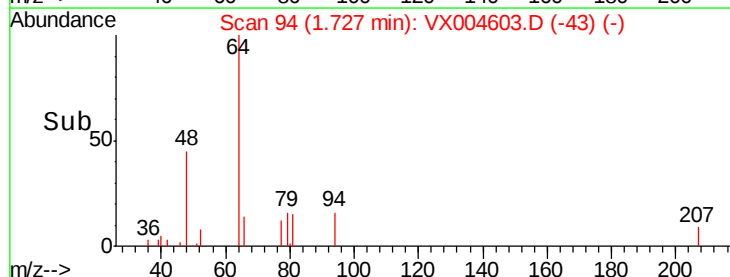
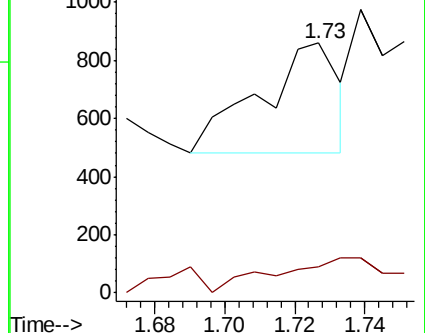
64 100

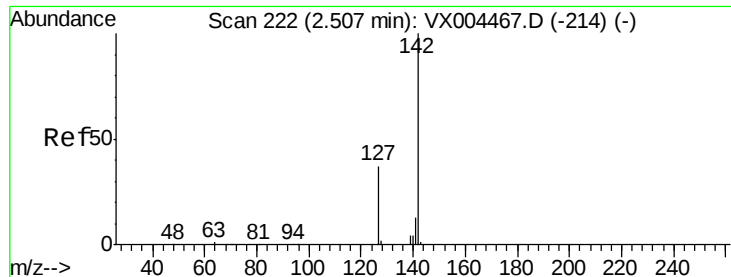
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

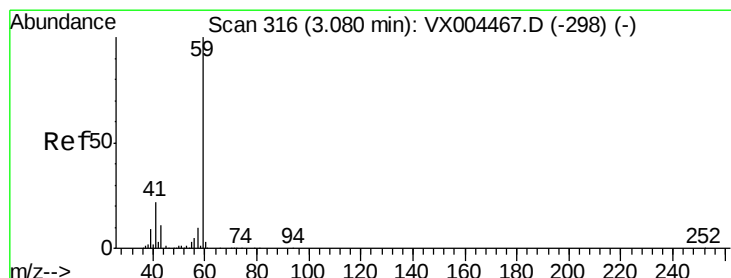
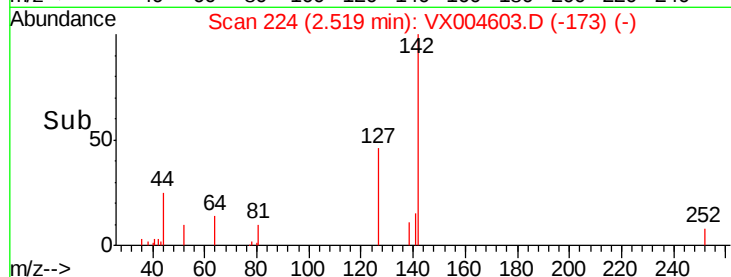
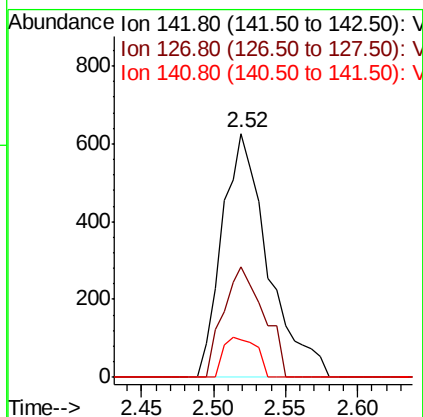
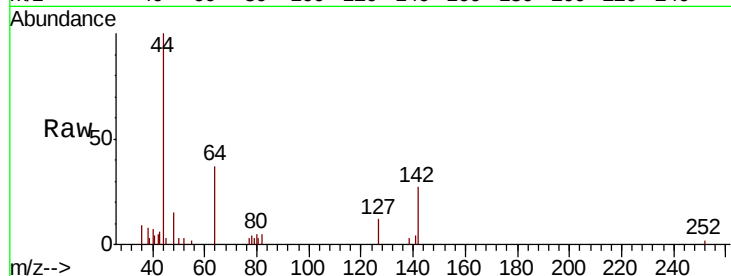




#10
Methvl Iodide
Concen: 4.64 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004603.D
Acq: 16 Sep 2018 00:26

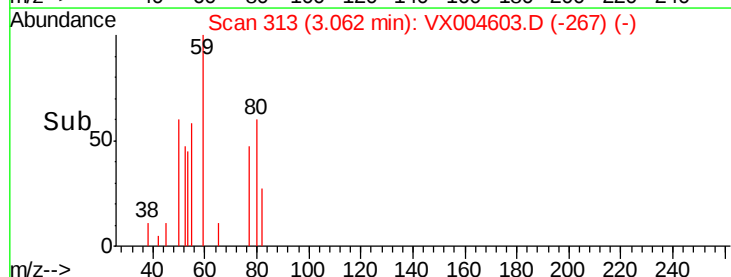
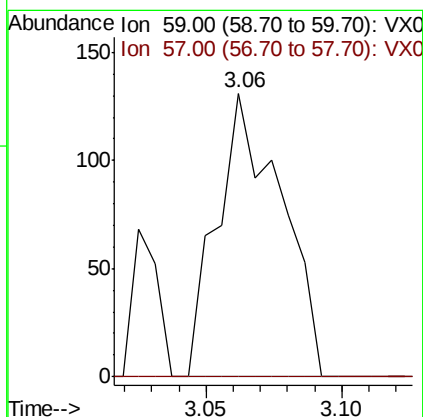
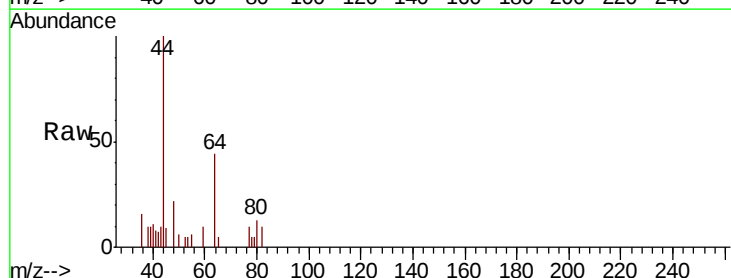
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-AOC22-MW06-20180912

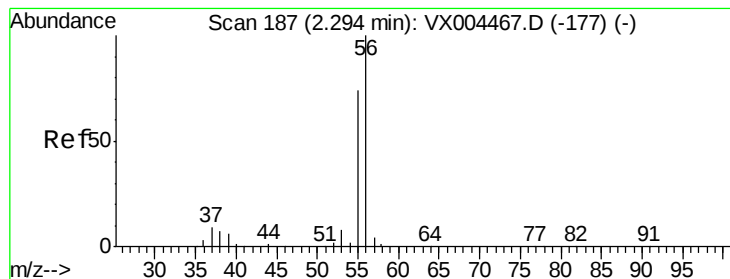
Tot Ion:142 Resp: 1392
Ion Ratio Lower Upper
142 100
127 39.9 33.8 50.6
141 11.7 11.4 17.0



#11
Tert butyl alcohol
Concen: 0.28 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004603.D
Acq: 16 Sep 2018 00:26

Tgt Ion: 59 Resp: 214
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 1.14 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

Instrument :

MSVOA_X

ClientSampleId :

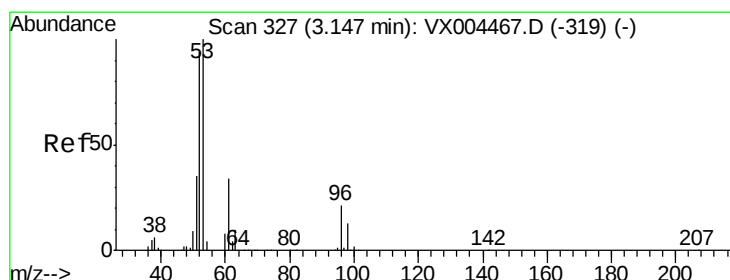
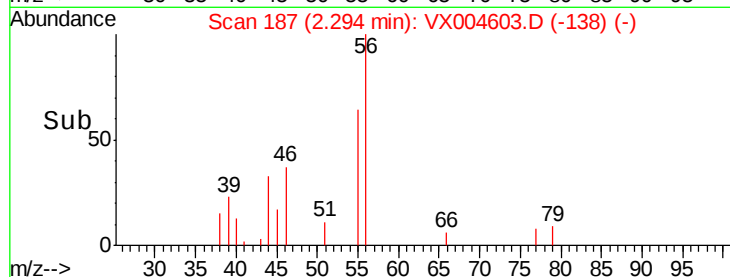
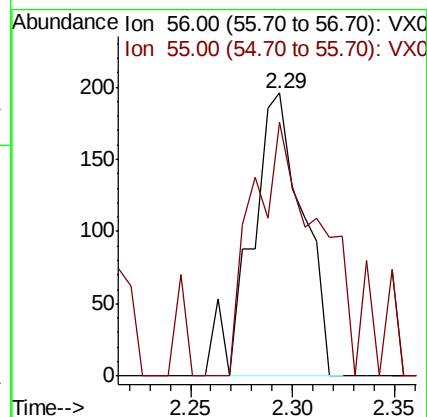
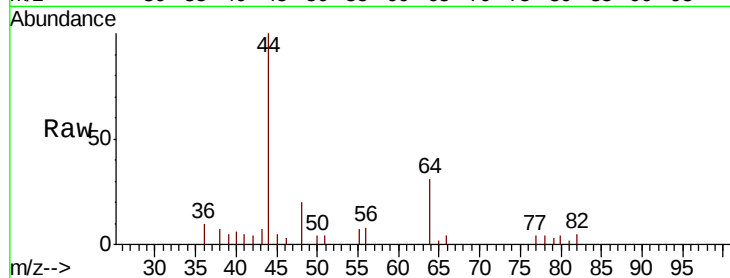
BP-TT-AOC22-MW06-20180912

Tot Ion: 56 Resp: 345

Ion Ratio Lower Upper

56 100

55 112.8 54.7 82.1#



#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

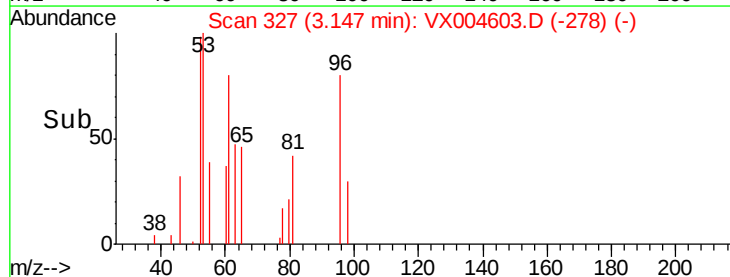
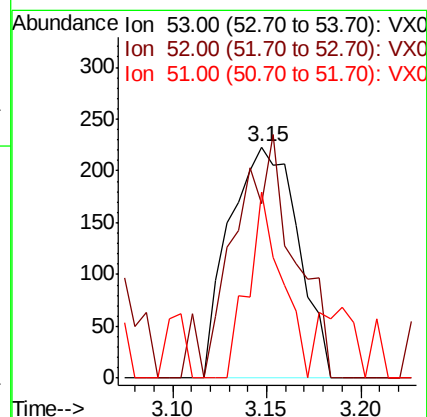
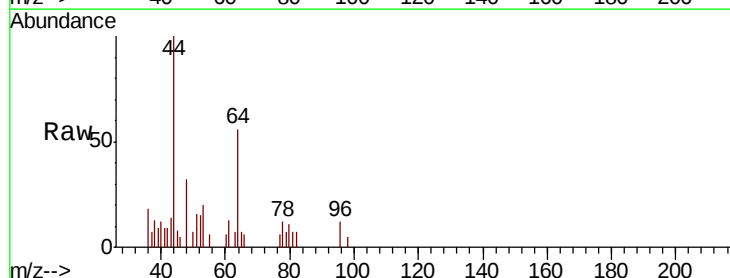
Tgt Ion: 53 Resp: 563

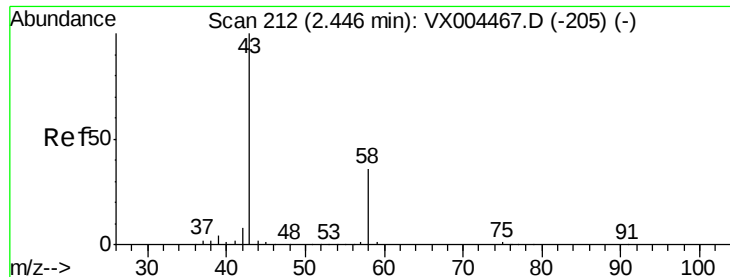
Ion Ratio Lower Upper

53 100

52 92.9 65.2 97.8

51 39.4 28.2 42.2





#16

Acetone

Concen: 3.58 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

Instrument :

MSVOA_X

ClientSampleId :

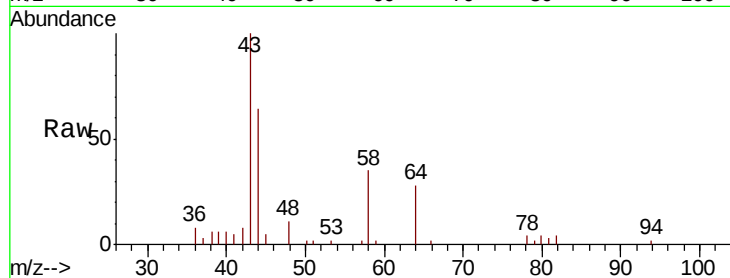
BP-TT-AOC22-MW06-20180912

Tot Ion: 43 Resp: 5621

Ion Ratio Lower Upper

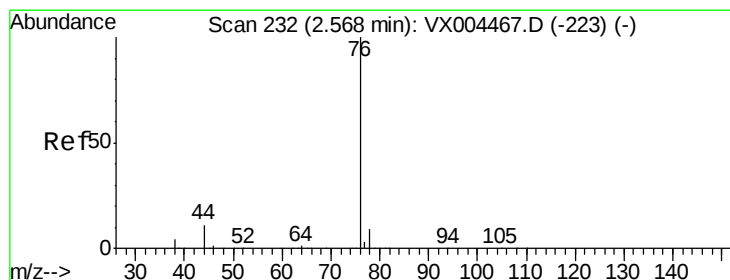
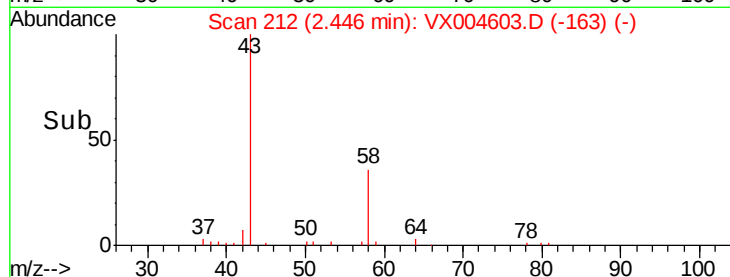
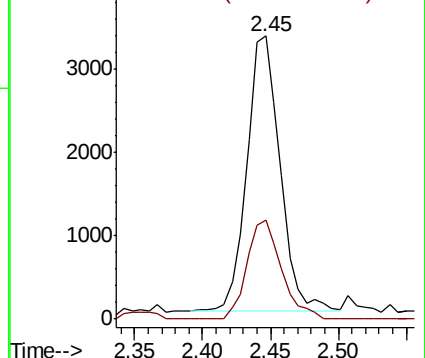
43 100

58 35.8 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.33 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX004603.D

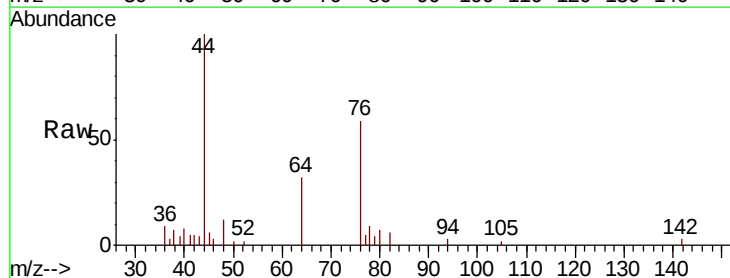
Acq: 16 Sep 2018 00:26

Tgt Ion: 76 Resp: 2483

Ion Ratio Lower Upper

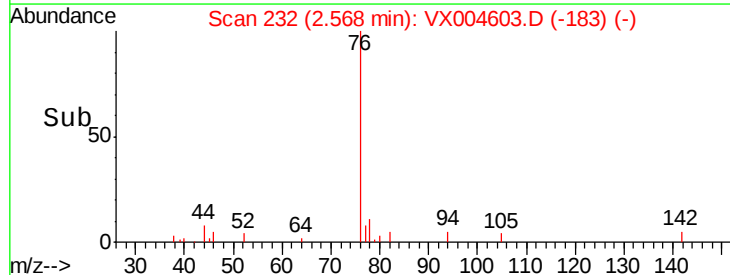
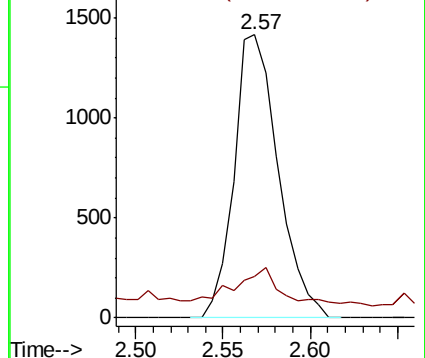
76 100

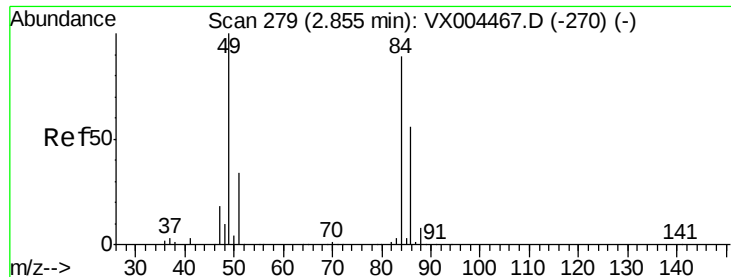
78 9.5 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.28 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-AOC22-MW06-20180912

Tot Ion: 84 Resp: 905

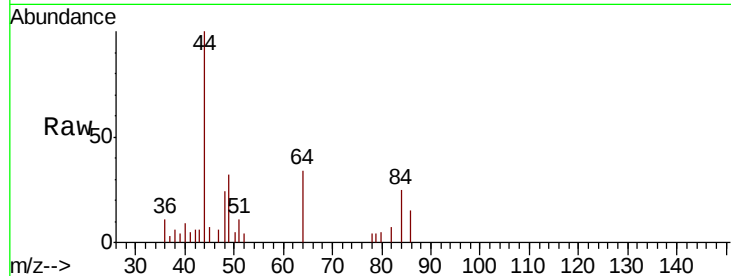
Ion Ratio Lower Upper

84 100

49 128.8 101.2 151.8

51 32.1 29.5 44.3

86 58.4 52.3 78.5

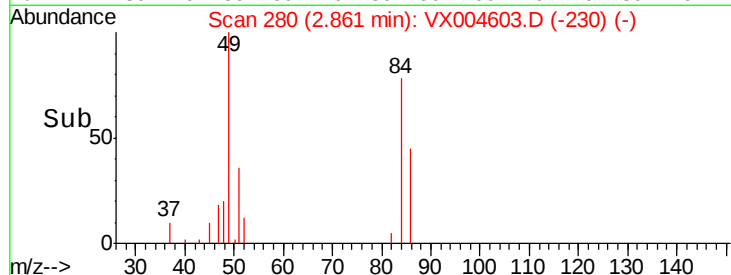
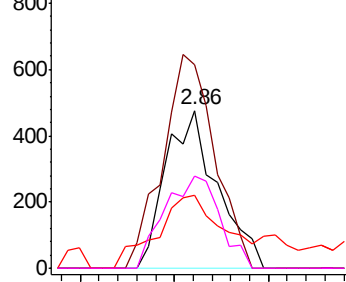


Abundance Ion 83.90 (83.60 to 84.60): VX0

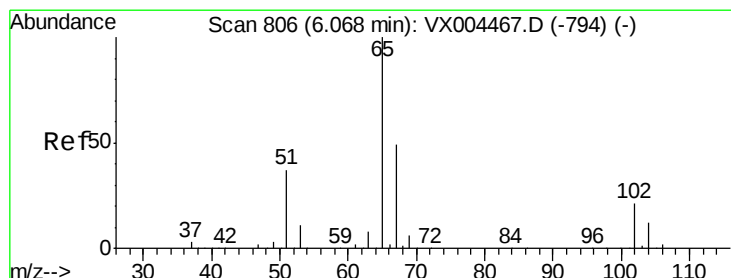
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.51 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004603.D

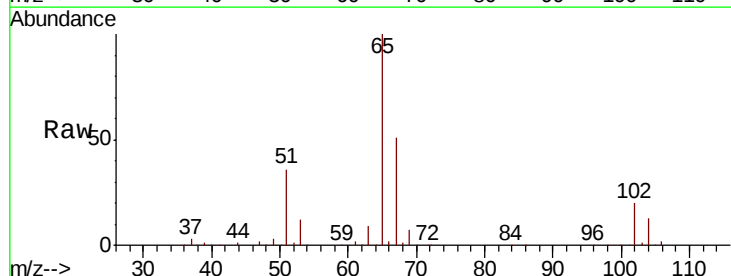
Acq: 16 Sep 2018 00:26

Tgt Ion: 65 Resp: 162419

Ion Ratio Lower Upper

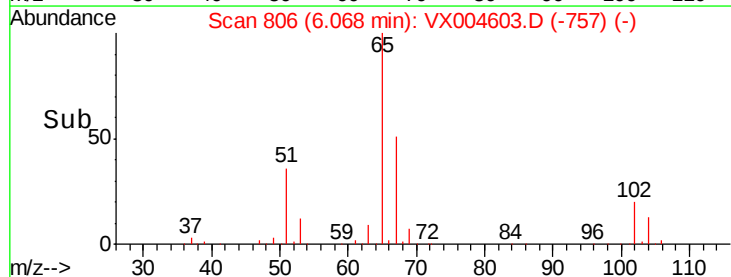
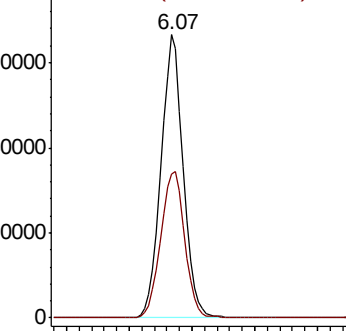
65 100

67 55.8 0.0 106.8

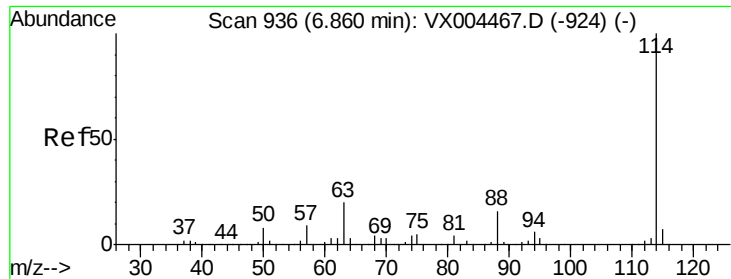


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



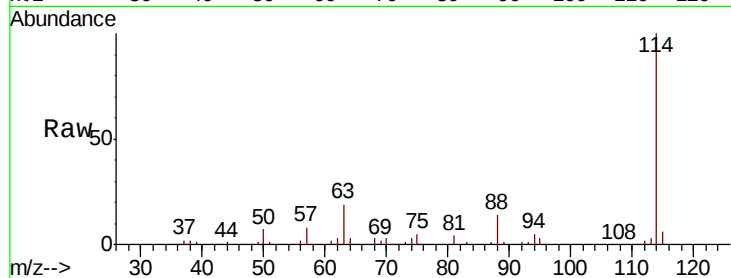
Time-->



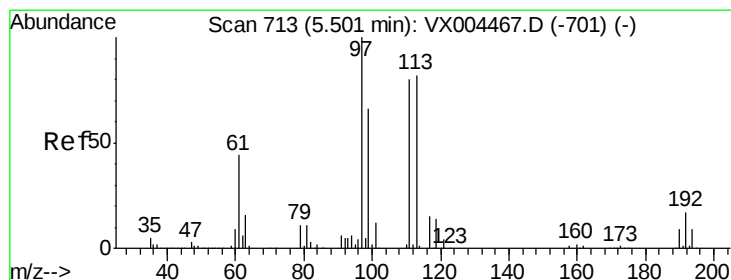
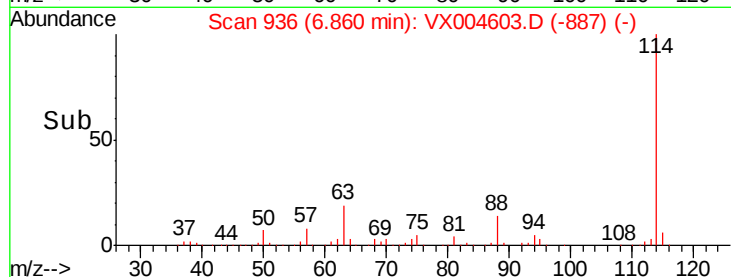
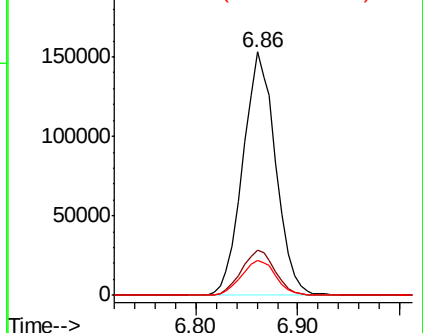
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004603.D
 Acq: 16 Sep 2018 00:26

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-AOC22-MW06-20180912

Tot Ion:114 Resp: 342579
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.0
 88 14.5 0.0 30.4

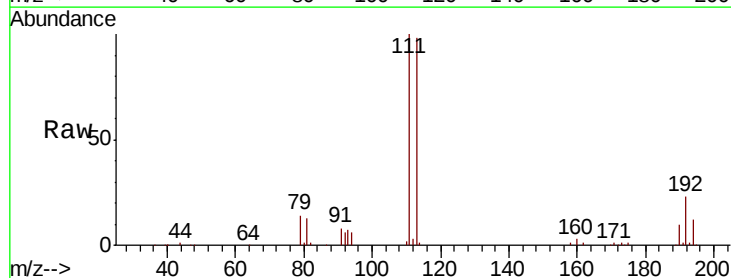


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

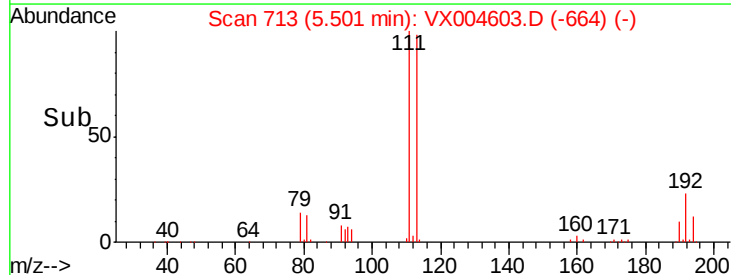
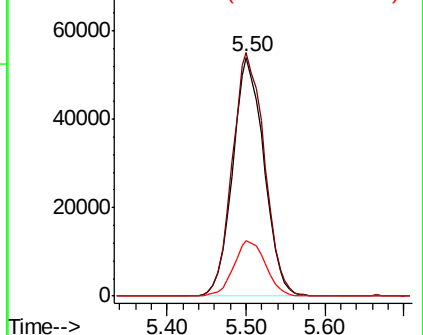


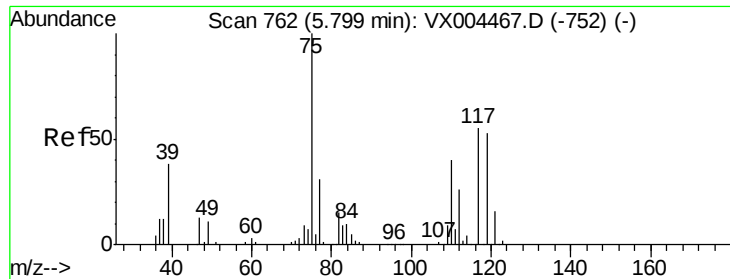
#35
 Dibromofluoromethane
 Concen: 47.46 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004603.D
 Acq: 16 Sep 2018 00:26

Tgt Ion:113 Resp: 148796
 Ion Ratio Lower Upper
 113 100
 111 104.8 82.4 123.6
 192 23.8 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

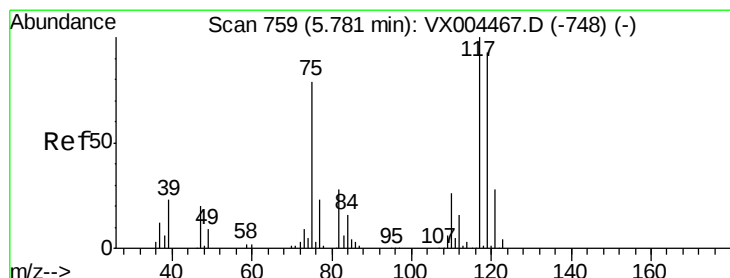
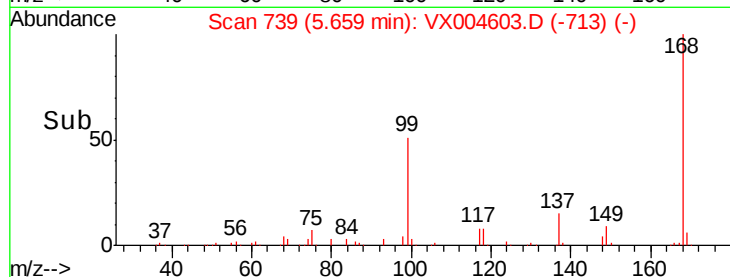
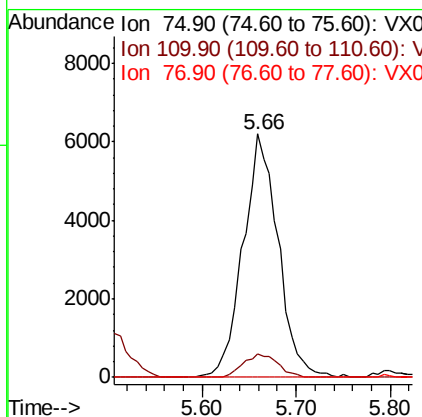
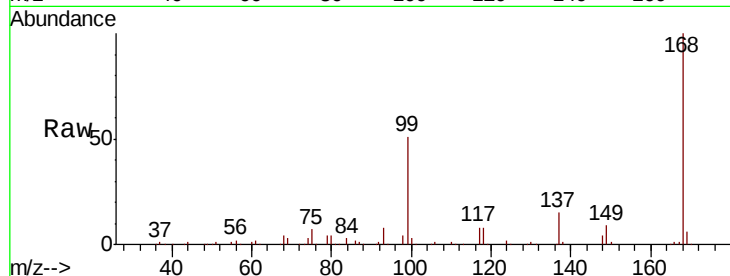




#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004603.D
 Acq: 16 Sep 2018 00:26

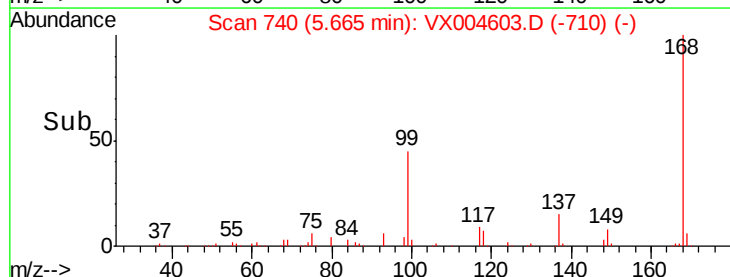
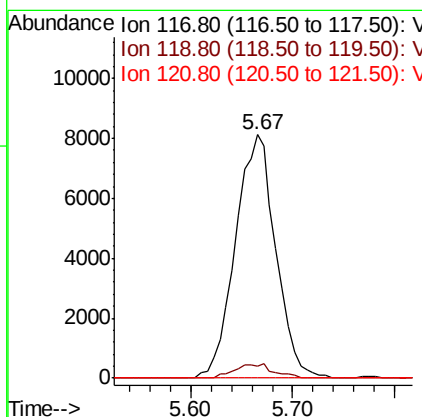
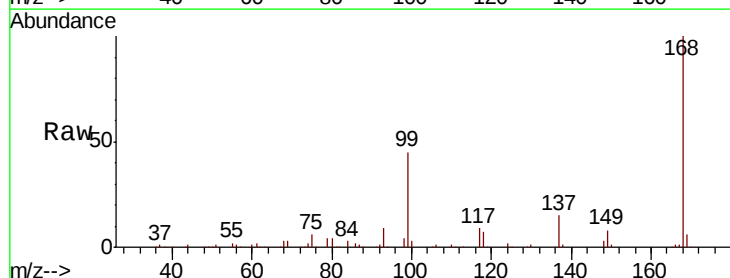
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-AOC22-MW06-20180912

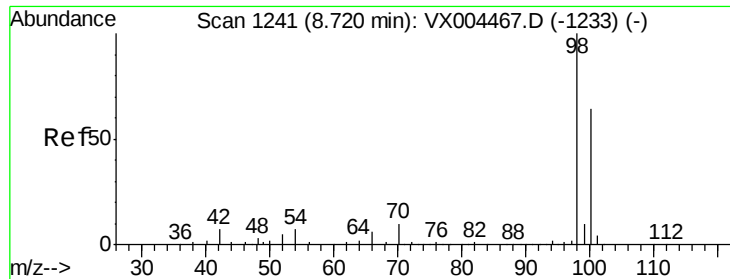
Tot Ion	75	Resp	16129
Ion Ratio	Lower	Upper	
75	100		
110	9.4	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.47 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004603.D
 Acq: 16 Sep 2018 00:26

Tgt Ion	117	Resp	22224
Ion Ratio	Lower	Upper	
117	100		
119	4.9	78.8	118.2#
121	0.0	24.9	37.3#





#50

Toluene-d8

Concen: 45.05 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

Instrument :

MSVOA_X

ClientSampleId :

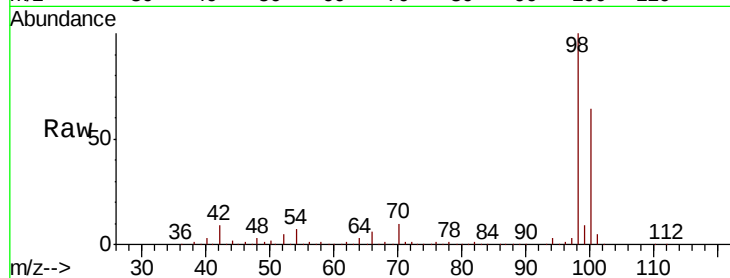
BP-TT-AOC22-MW06-20180912

Tot Ion: 98 Resp: 473567

Ion Ratio Lower Upper

98 100

100 63.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

300000

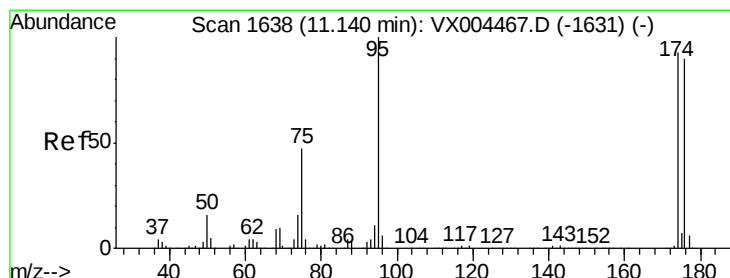
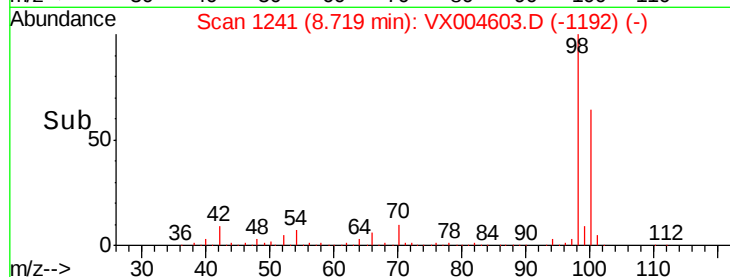
200000

100000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 45.03 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

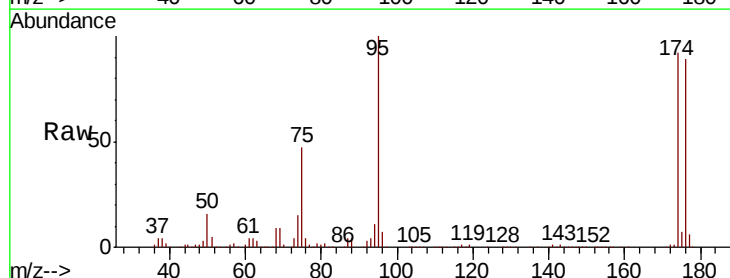
Tgt Ion: 95 Resp: 168972

Ion Ratio Lower Upper

95 100

174 92.7 0.0 185.2

176 89.0 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

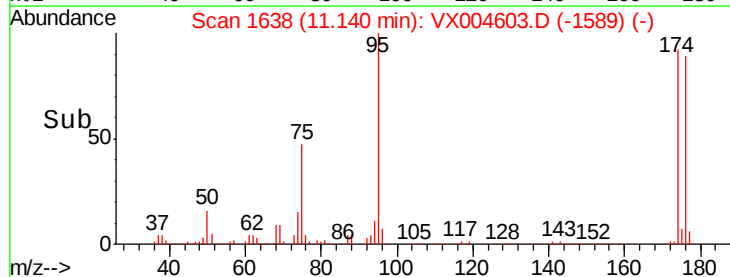
100000

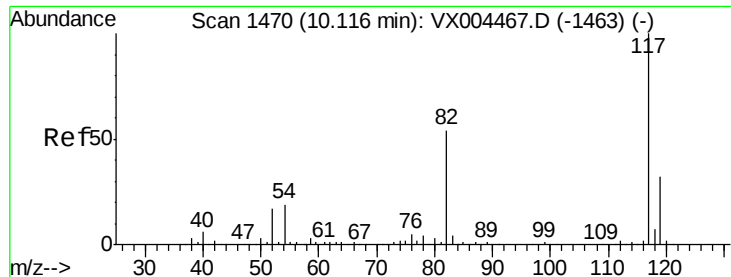
50000

0

11.10 11.20

Time-->

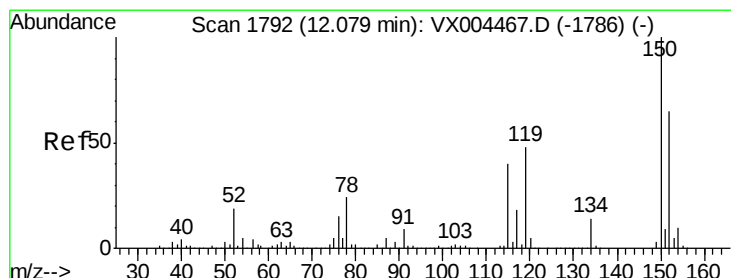
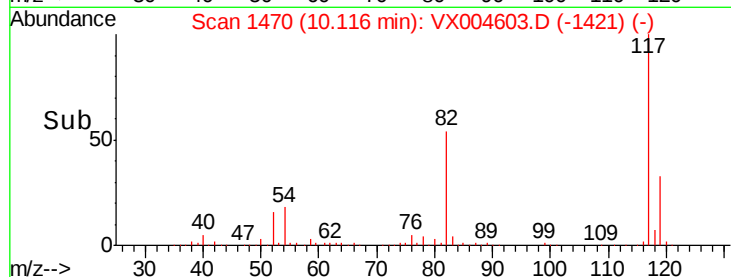
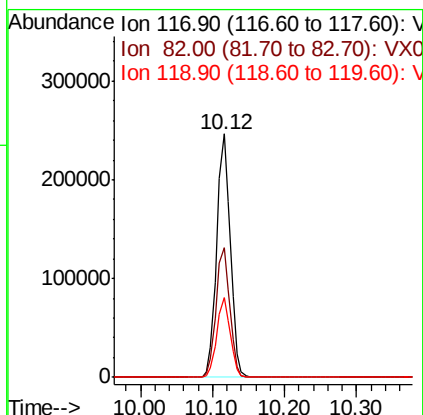
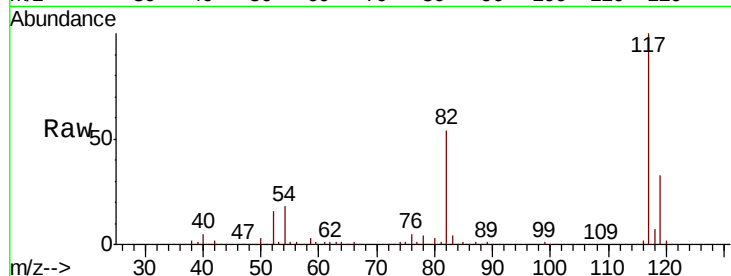




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004603.D
Acq: 16 Sep 2018 00:26

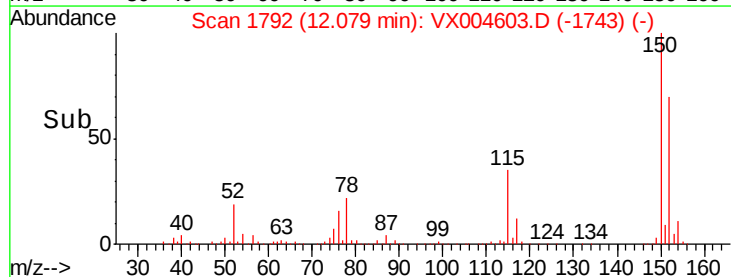
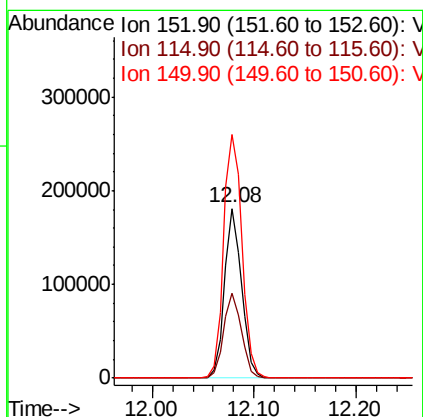
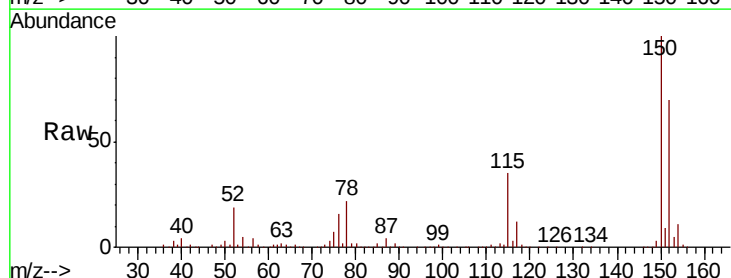
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-AOC22-MW06-20180912

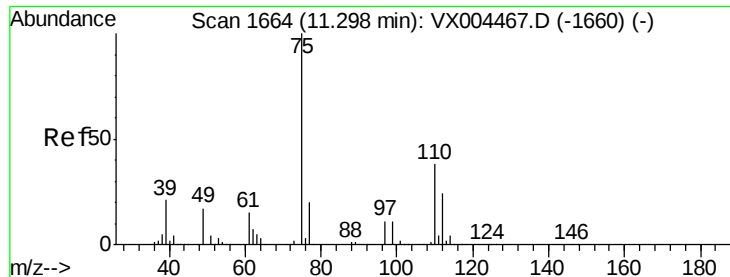
Tot Ion:117 Resp: 320411
Ion Ratio Lower Upper
117 100
82 53.5 47.8 71.6
119 32.6 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004603.D
Acq: 16 Sep 2018 00:26

Tgt Ion:152 Resp: 210881
Ion Ratio Lower Upper
152 100
115 52.4 39.0 117.0
150 154.5 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 18.70 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

Instrument :

MSVOA_X

ClientSampleId :

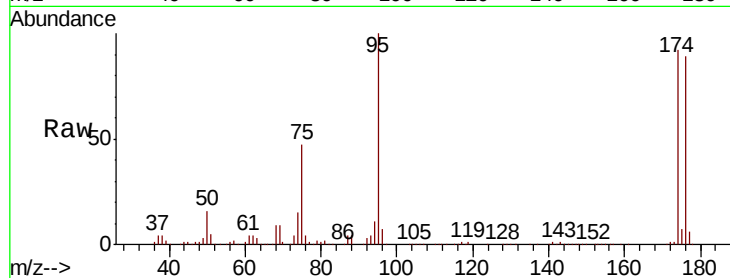
BP-TT-AOC22-MW06-20180912

Tot Ion: 75 Resp: 79359

Ion Ratio Lower Upper

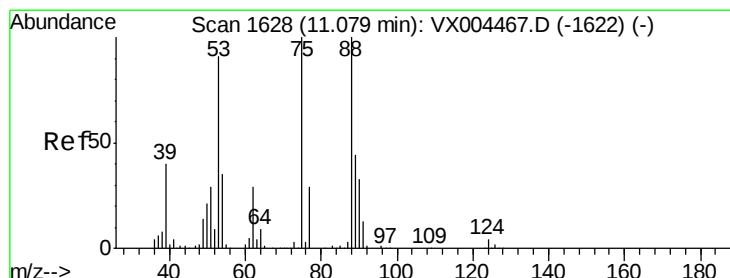
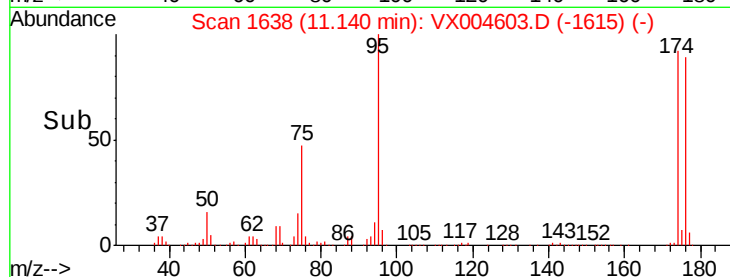
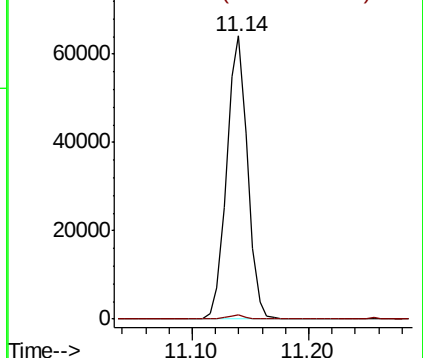
75 100

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: 59.62 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

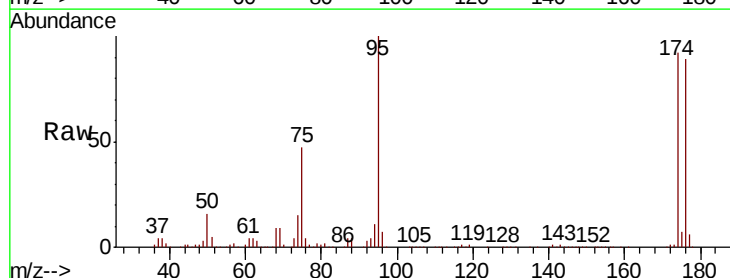
Tgt Ion: 75 Resp: 79359

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

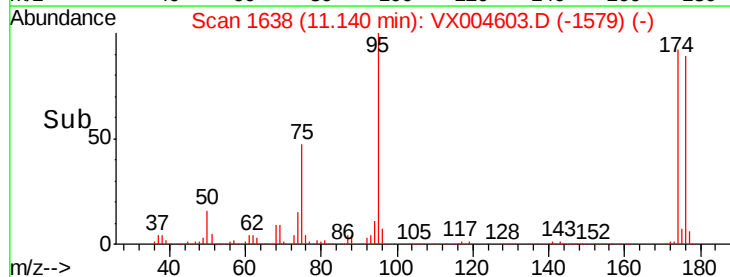
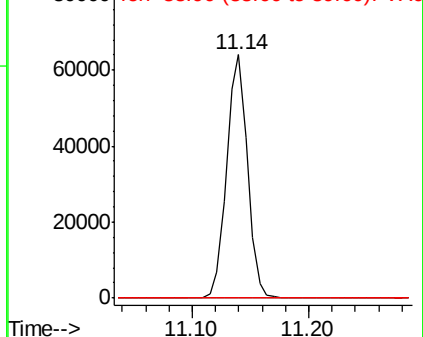
89 0.0 37.2 55.8#

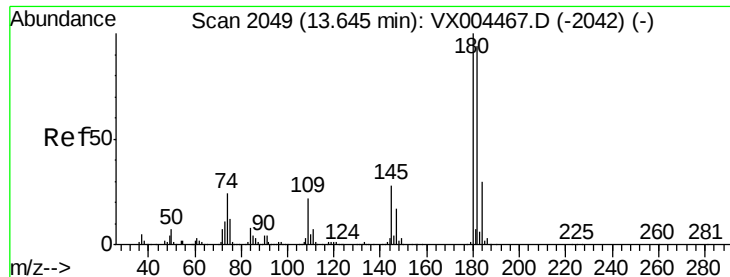


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

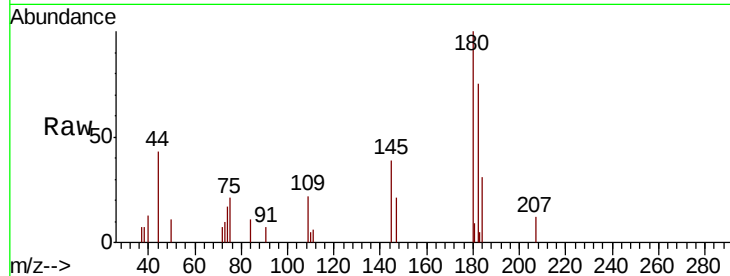




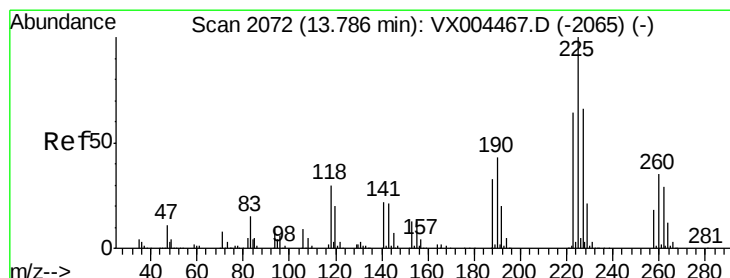
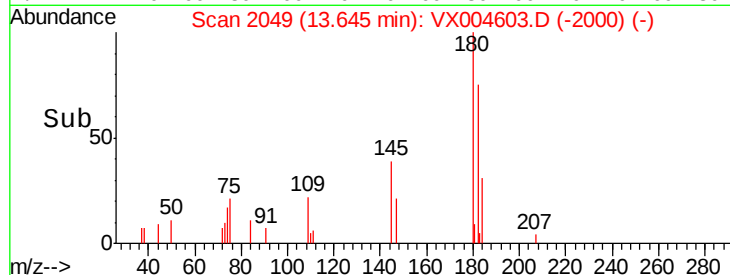
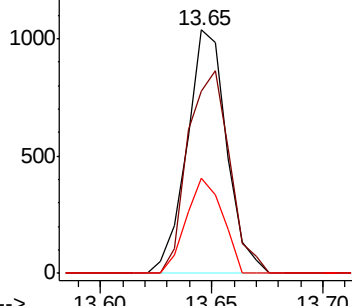
#93
 1,2,4-Trichlorobenzene
 Concen: 0.25 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX004603.D
 Acq: 16 Sep 2018 00:26

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-AOC22-MW06-20180912

Tot Ion:180 Resp: 1294
 Ion Ratio Lower Upper
 180 100
 182 87.4 48.4 145.0
 145 35.9 14.3 42.9

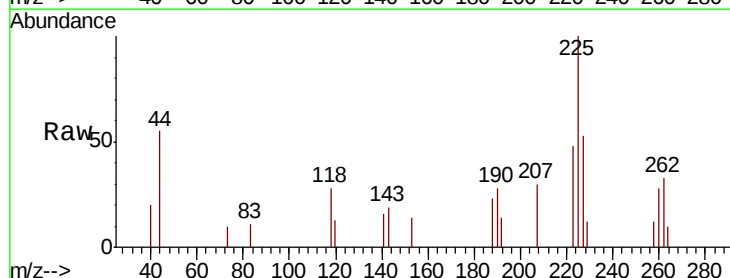


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

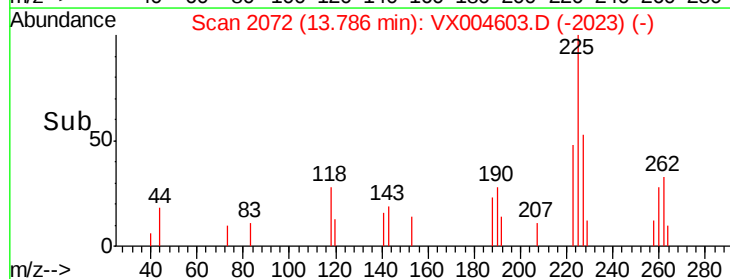
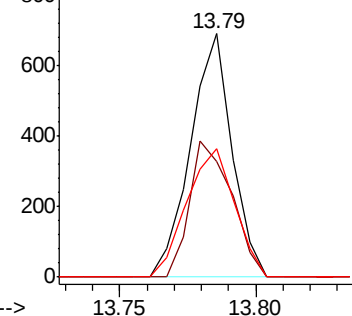


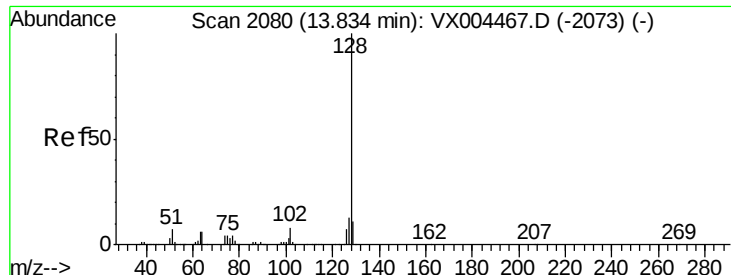
#94
 Hexachlorobutadiene
 Concen: 0.27 ug/l
 RT: 13.79 min Scan# 2072
 Delta R.T. -0.00 min
 Lab File: VX004603.D
 Acq: 16 Sep 2018 00:26

Tgt Ion:225 Resp: 729
 Ion Ratio Lower Upper
 225 100
 223 56.2 30.1 90.5
 227 61.2 30.8 92.4



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





#95

Naphthalene

Concen: 0.49 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX004603.D

Acq: 16 Sep 2018 00:26

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-AOC22-MW06-20180912

Tot Ion:128 Resp: 7040

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

129 11.6 8.6 12.8

