

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091818\  
 Data File : VX004682.D  
 Acq On : 19 Sep 2018 02:56  
 Operator : JC/MD  
 Sample : J4938-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-9

Quant Time: Sep 19 08:53:21 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  | 247613   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 343634   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 313880   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 198577   | 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   | 152538   | 47.78 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.56% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 142387   | 45.28 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.56% |          |
| 50) Toluene-d8              | 8.71  | 98   | 461286   | 43.74 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.48% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 163076   | 43.32 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.64% |          |

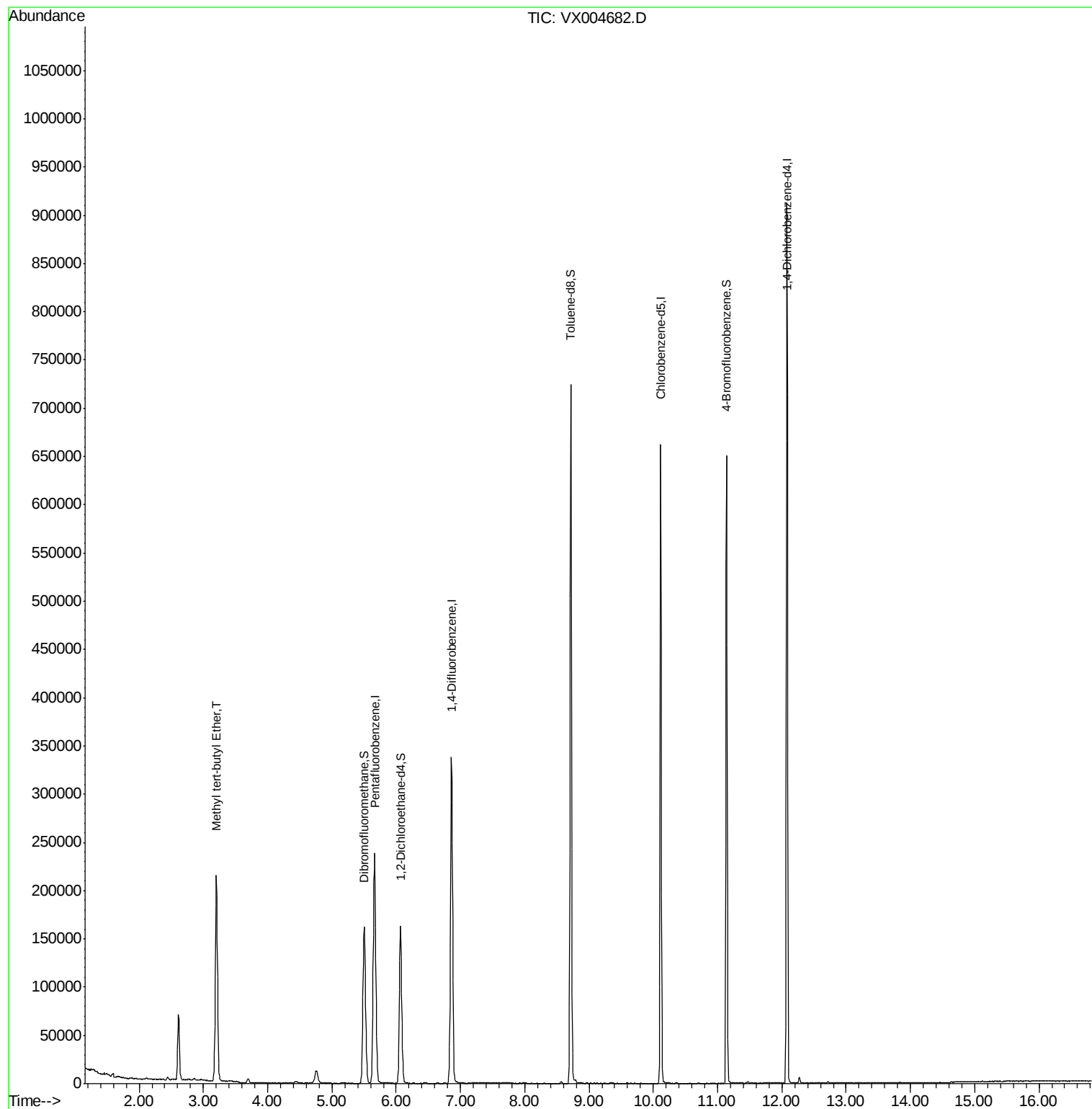
| Target Compounds            | R.T. | QIon | Response | Conc  | Units | Qvalue |
|-----------------------------|------|------|----------|-------|-------|--------|
| 19) Methyl tert-butyl Ether | 3.20 | 73   | 237765   | 26.19 | ug/l  | 97     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091118W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 12 02:17:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004682.D

Acq: 19 Sep 2018 02:56

Instrument :

MSVOA\_X

ClientSampleId :

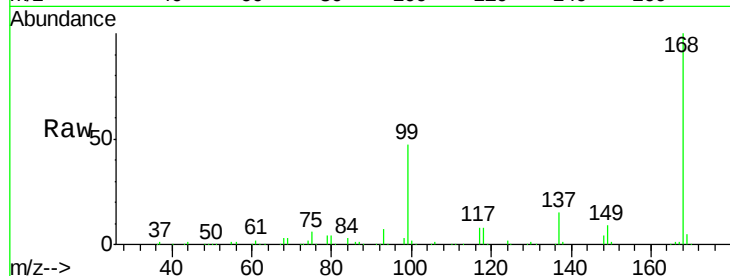
MW-9

Tot Ion:168 Resp: 247613

Ion Ratio Lower Upper

168 100

99 46.7 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

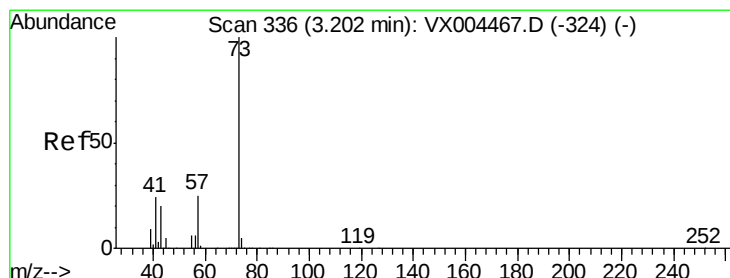
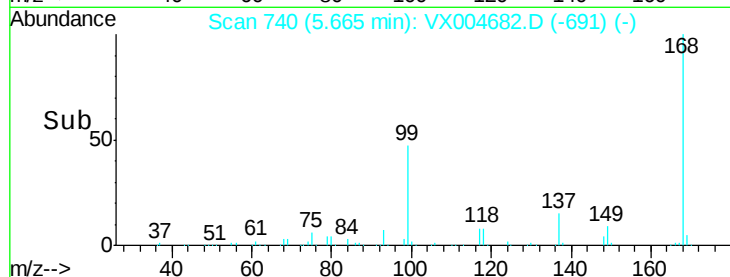
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#19

Methyl tert-butyl Ether

Concen: 26.19 ug/l

RT: 3.20 min Scan# 336

Delta R.T. -0.00 min

Lab File: VX004682.D

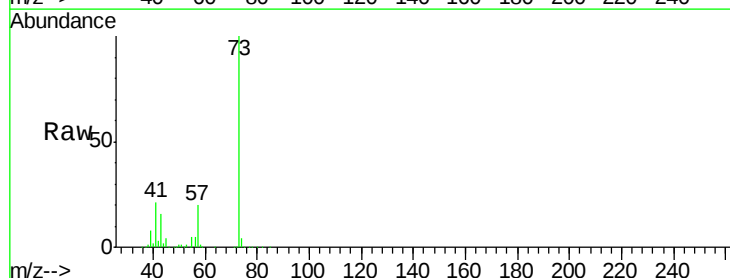
Acq: 19 Sep 2018 02:56

Tgt Ion: 73 Resp: 237765

Ion Ratio Lower Upper

73 100

57 19.9 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.20

120000

100000

80000

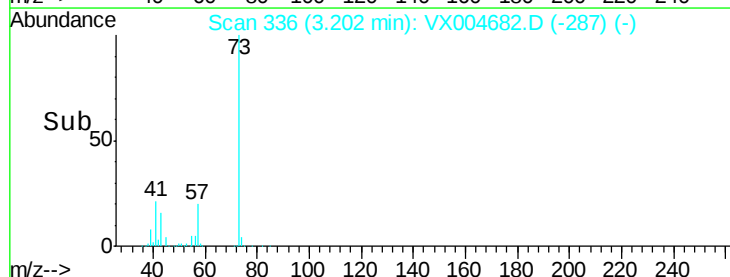
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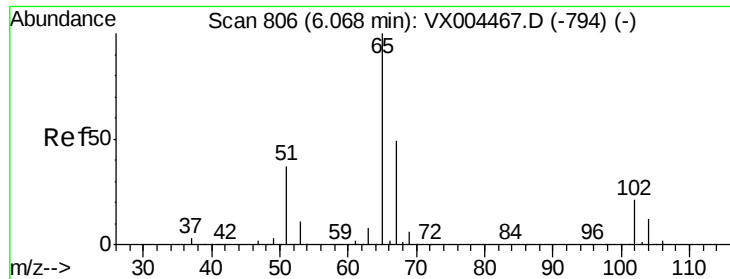
40000

20000

0

Time--> 3.10 3.20 3.30

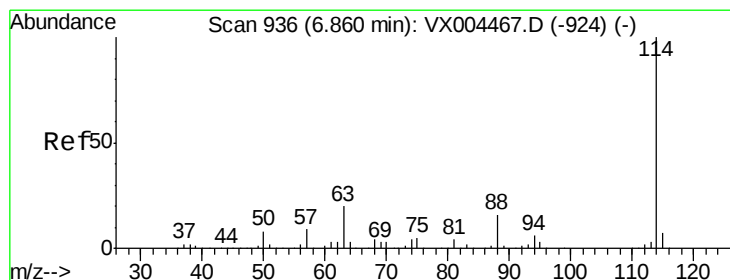
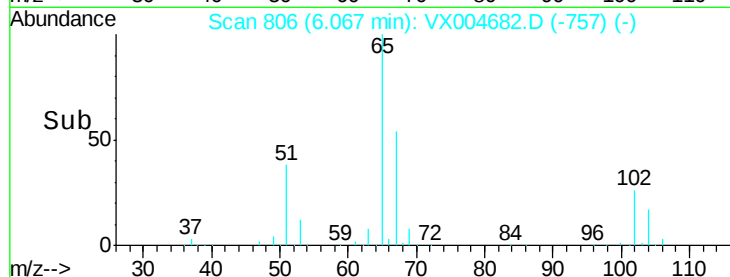
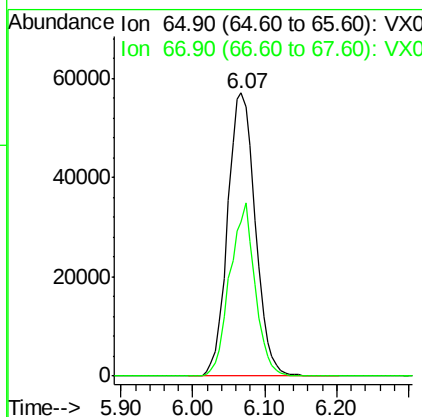
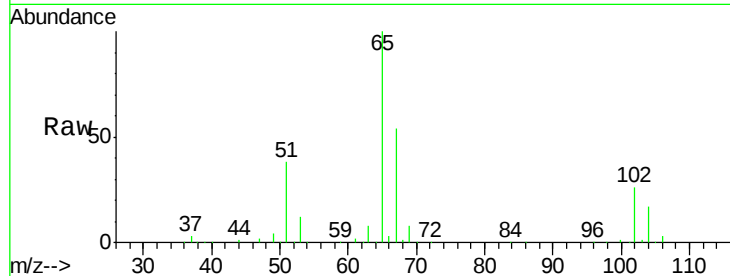




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.78 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX004682.D  
 Acq: 19 Sep 2018 02:56

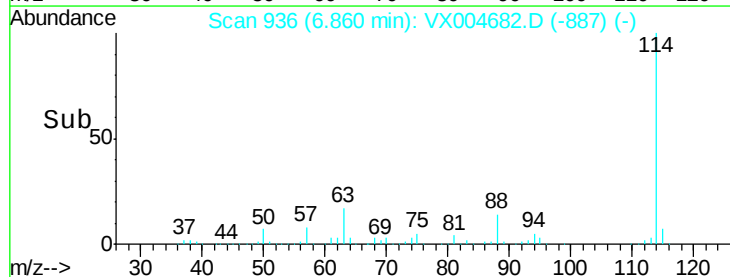
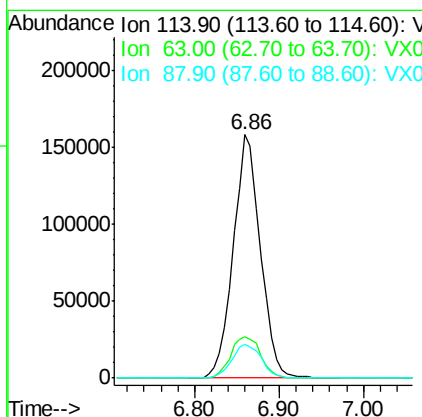
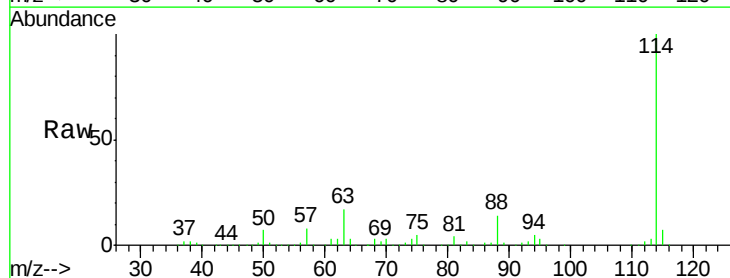
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-9

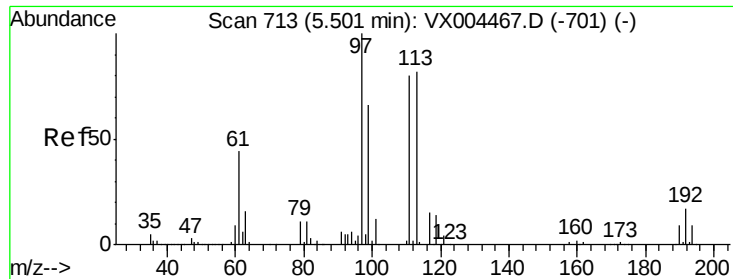
Tot Ion: 65 Resp: 152538  
 Ion Ratio Lower Upper  
 65 100  
 67 55.7 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX004682.D  
 Acq: 19 Sep 2018 02:56

Tgt Ion: 114 Resp: 343634  
 Ion Ratio Lower Upper  
 114 100  
 63 17.0 0.0 39.0  
 88 13.7 0.0 30.4

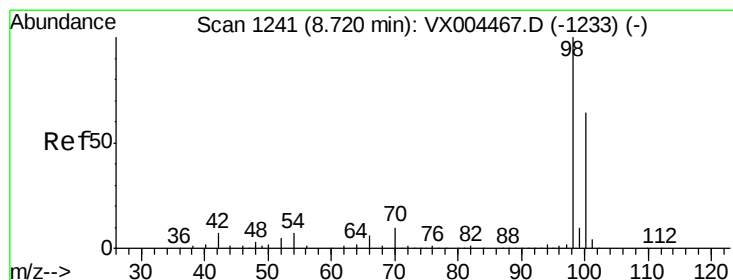
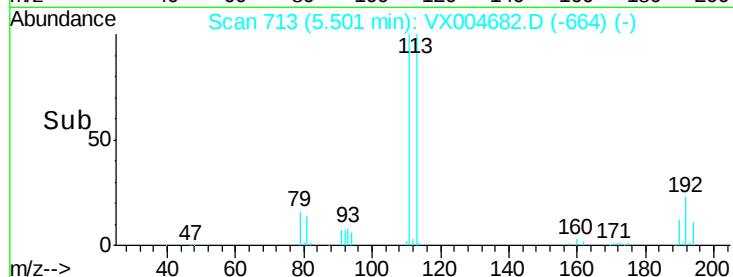
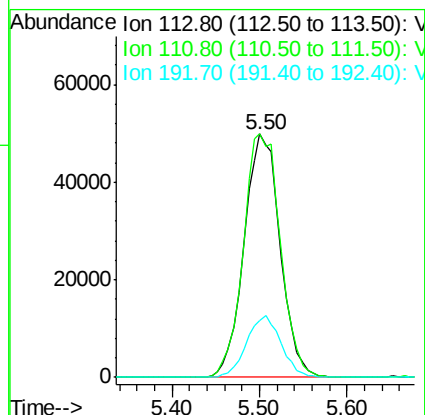
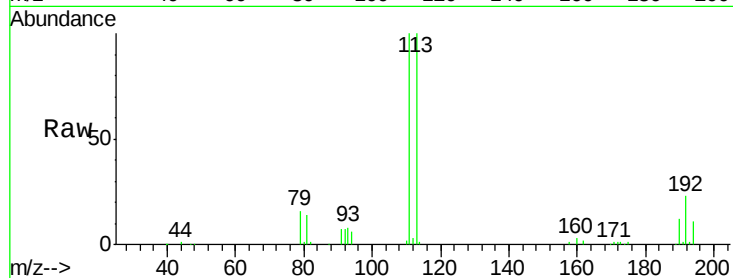




#35  
Dibromofluoromethane  
Concen: 45.28 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. -0.00 min  
Lab File: VX004682.D  
Acq: 19 Sep 2018 02:56

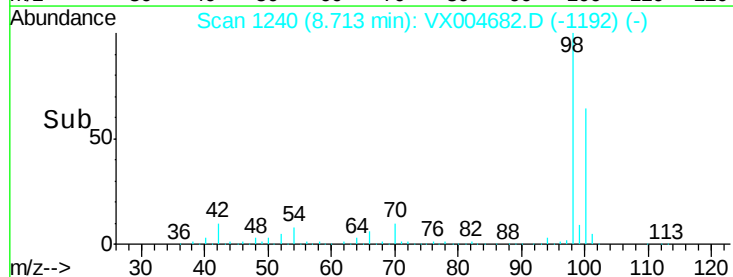
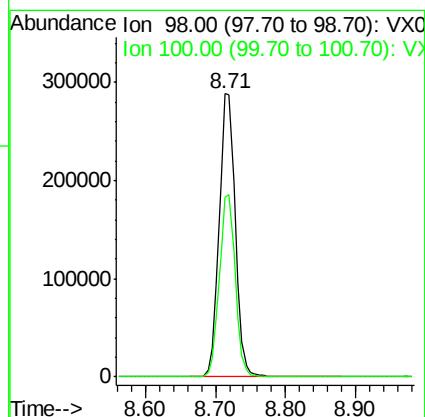
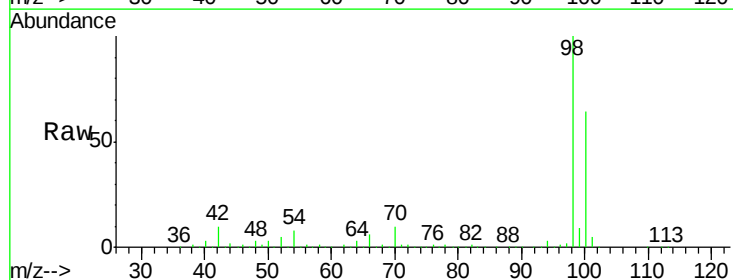
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-9

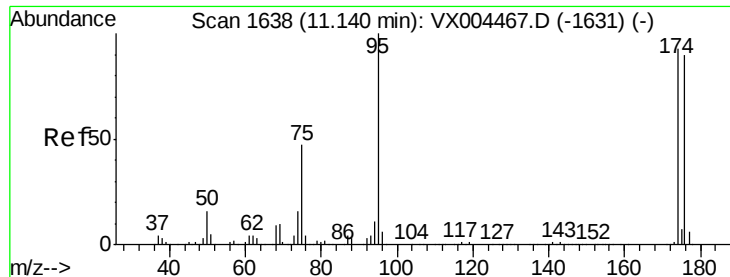
Tot Ion:113 Resp: 142387  
Ion Ratio Lower Upper  
113 100  
111 102.9 82.4 123.6  
192 24.4 19.4 29.2



#50  
Toluene-d8  
Concen: 43.74 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.01 min  
Lab File: VX004682.D  
Acq: 19 Sep 2018 02:56

Tgt Ion: 98 Resp: 461286  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.9 79.3

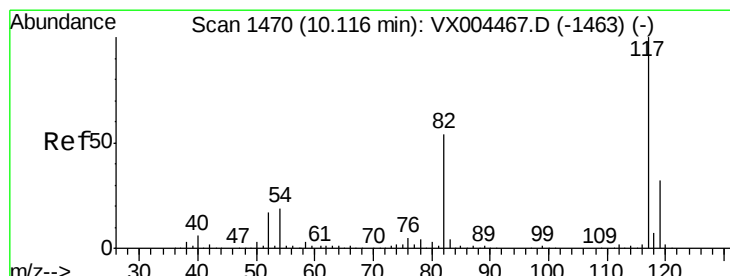
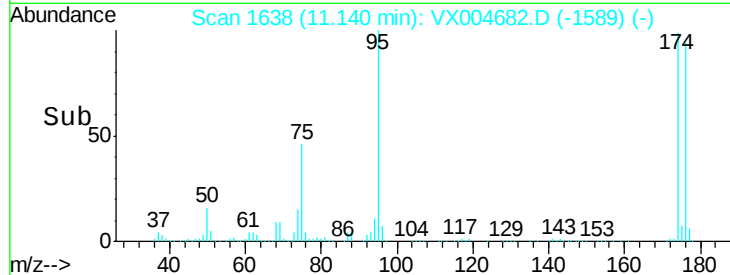
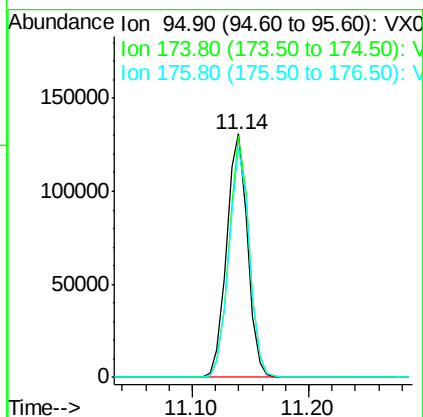
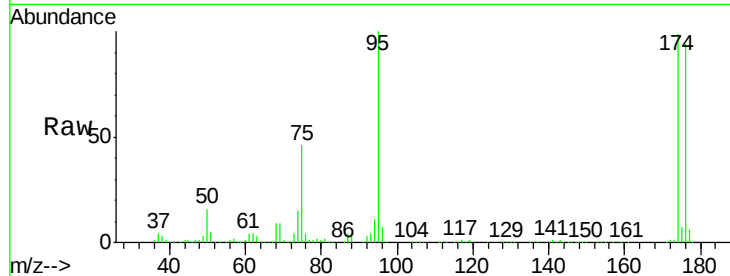




#62  
4-Bromofluorobenzene  
Concen: 43.32 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VX004682.D  
Acq: 19 Sep 2018 02:56

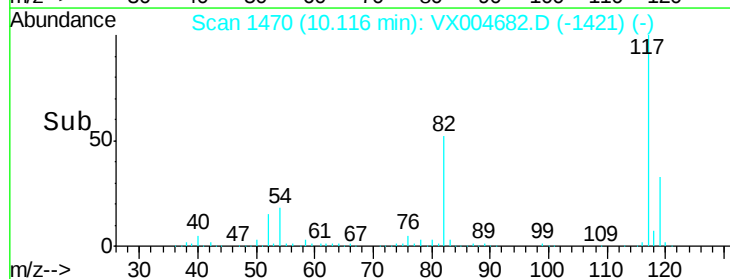
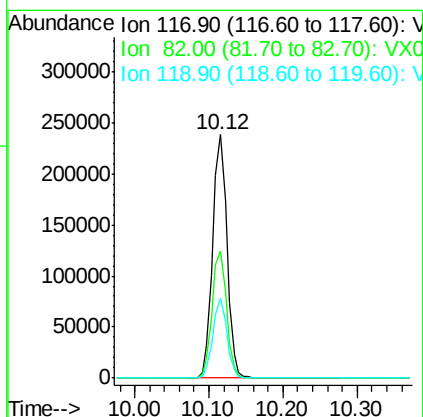
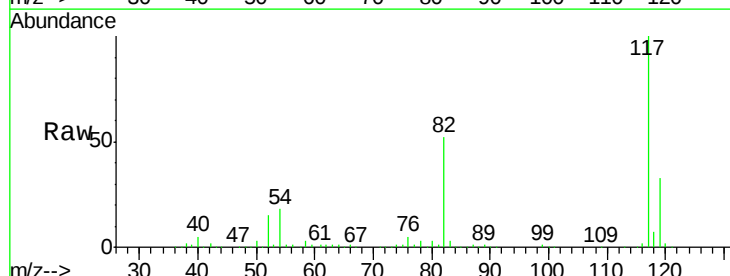
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-9

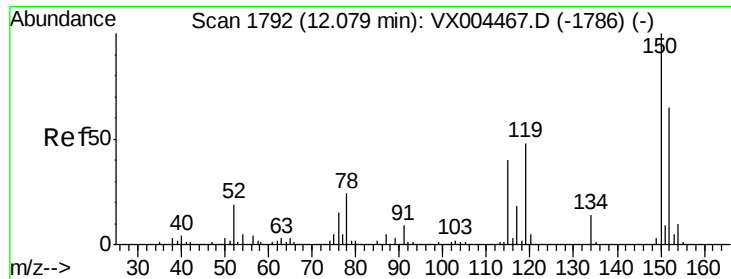
Tot Ion: 95 Resp: 163076  
Ion Ratio Lower Upper  
95 100  
174 96.5 0.0 185.2  
176 92.7 0.0 178.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX004682.D  
Acq: 19 Sep 2018 02:56

Tgt Ion: 117 Resp: 313880  
Ion Ratio Lower Upper  
117 100  
82 52.0 47.8 71.6  
119 32.7 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: VX004682.D

Acq: 19 Sep 2018 02:56

Instrument :

MSVOA\_X

ClientSampleId :

MW-9

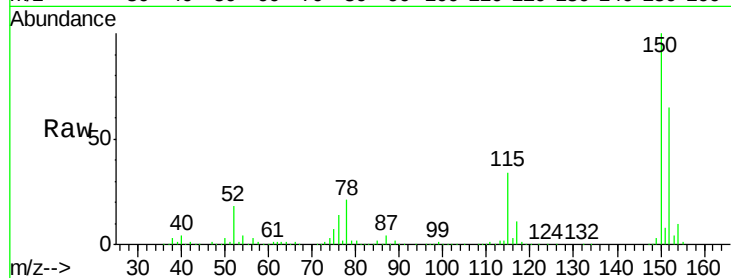
Tot Ion:152 Resp: 198577

Ion Ratio Lower Upper

152 100

115 53.5 39.0 117.0

150 157.5 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

