

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070319\  
 Data File : VX010653.D  
 Acq On : 03 Jul 2019 20:18  
 Operator : JC/SP  
 Sample : K3666-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MWHR3-8-070219

Quant Time: Jul 04 05:14:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 229590   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 352580   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 323801   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 143378   | 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   | 114858   | 53.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 106.72% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 108307   | 50.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.42% |          |
| 50) Toluene-d8              | 8.71  | 98   | 421749   | 51.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.20% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 138729   | 46.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 93.12%  |          |

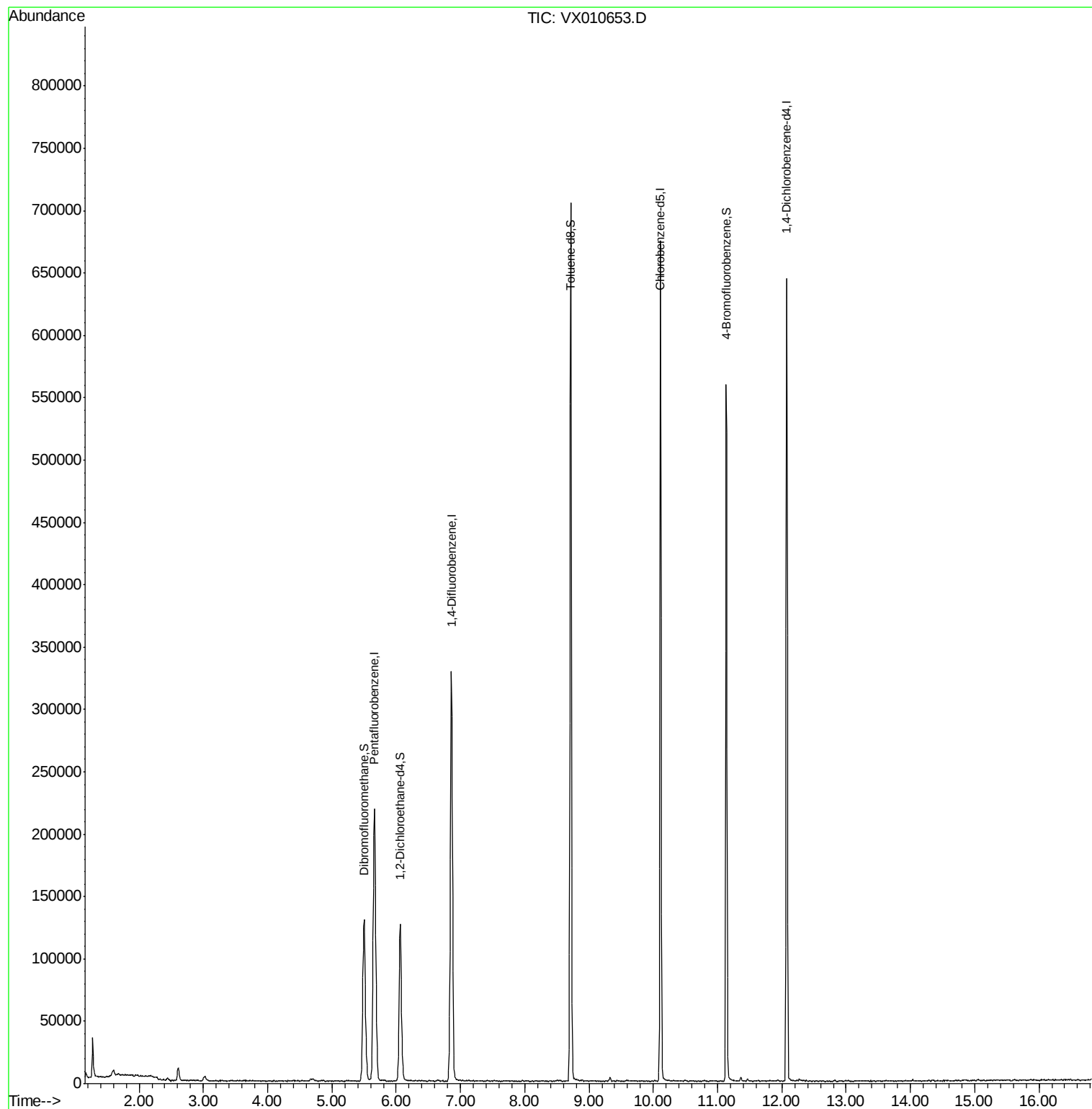
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

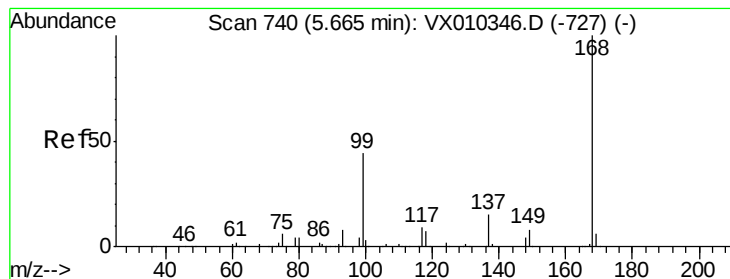
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010653.D

Acq: 03 Jul 2019 20:18

Instrument :

MSVOA\_X

ClientSampleId :

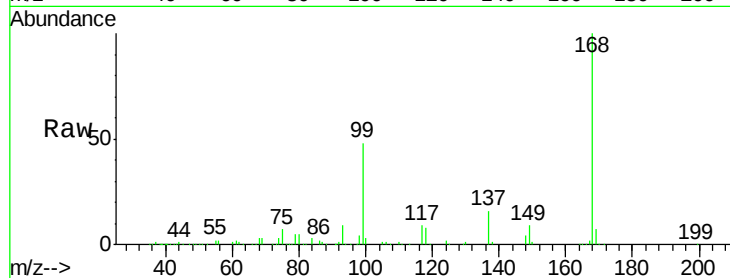
MWHR3-8-070219

Tot Ion:168 Resp: 229590

Ion Ratio Lower Upper

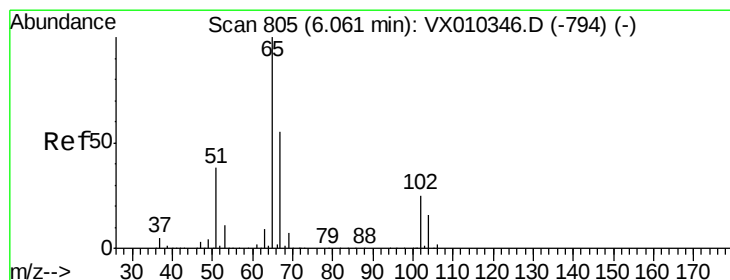
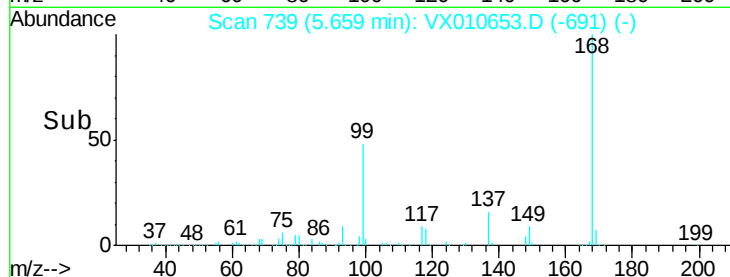
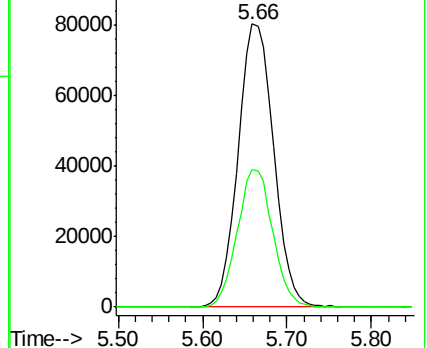
168 100

99 48.4 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.357 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010653.D

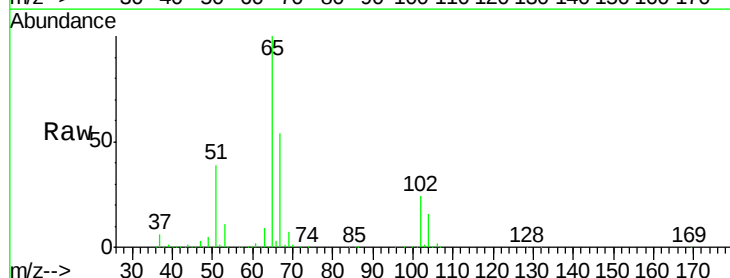
Acq: 03 Jul 2019 20:18

Tgt Ion: 65 Resp: 114858

Ion Ratio Lower Upper

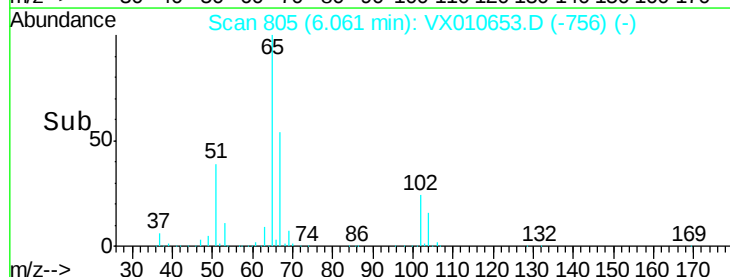
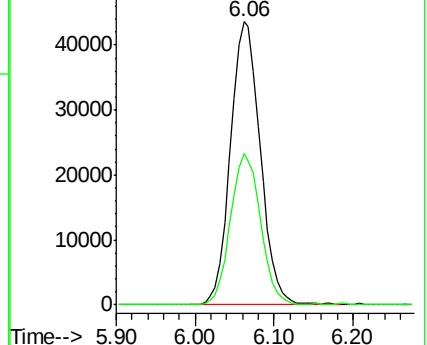
65 100

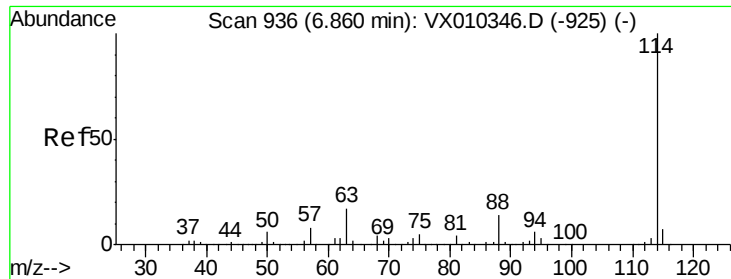
67 53.9 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

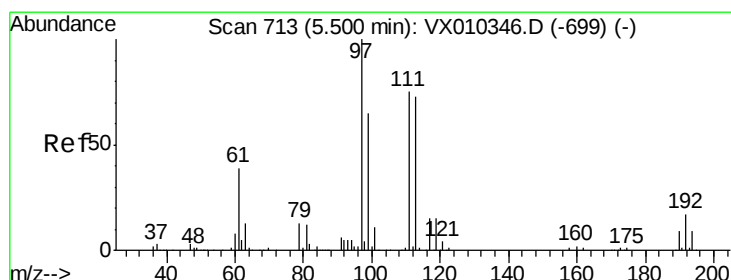
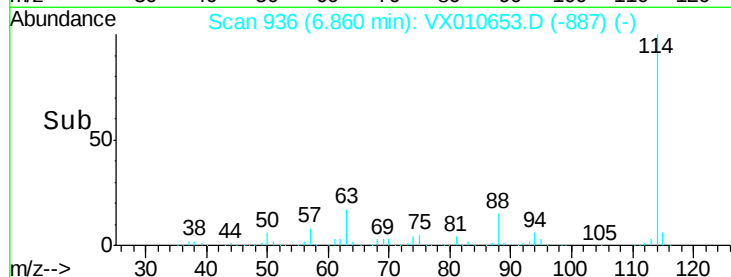
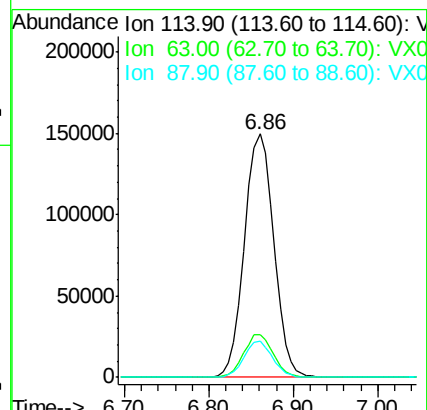
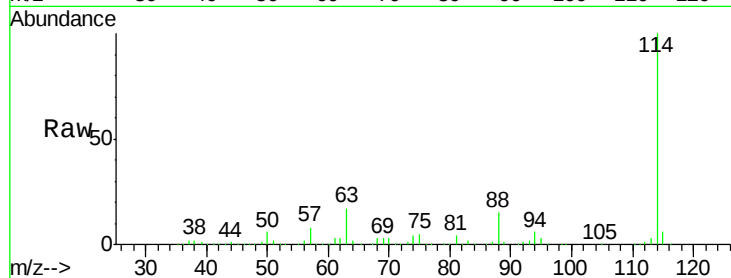




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010653.D  
 Acq: 03 Jul 2019 20:18

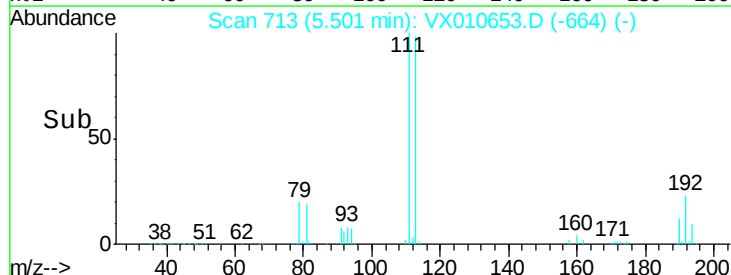
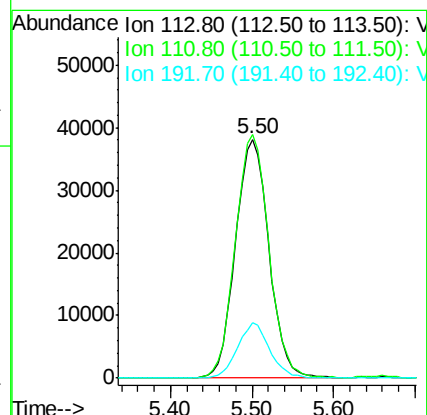
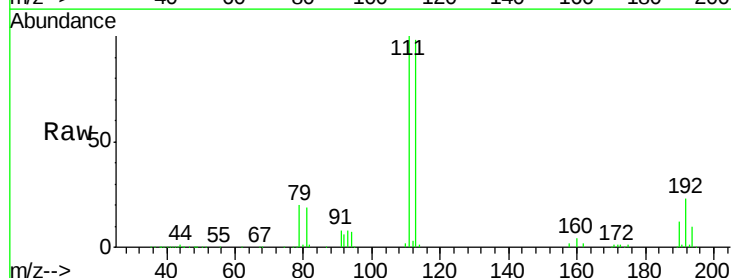
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MWHR3-8-070219

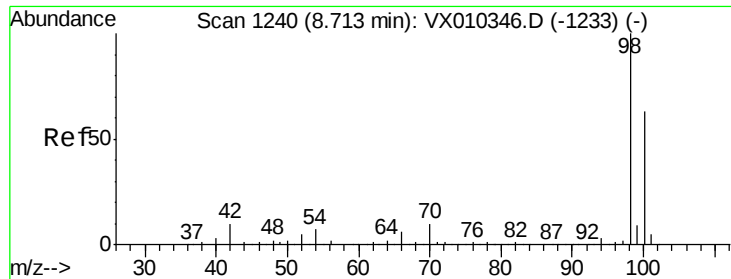
Tot Ion:114 Resp: 352580  
 Ion Ratio Lower Upper  
 114 100  
 63 17.4 0.0 33.8  
 88 15.0 0.0 27.6



#35  
 Dibromofluoromethane  
 Concen: 50.207 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX010653.D  
 Acq: 03 Jul 2019 20:18

Tgt Ion:113 Resp: 108307  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 81.2 121.8  
 192 22.1 18.6 27.8





#50

Toluene-d8

Concen: 51.102 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010653.D

Acq: 03 Jul 2019 20:18

Instrument :

MSVOA\_X

ClientSampleId :

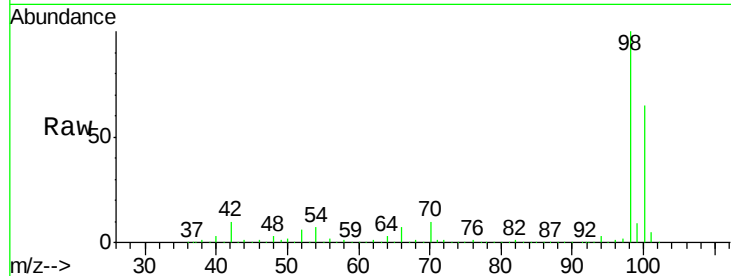
MWHR3-8-070219

Tot Ion: 98 Resp: 421749

Ion Ratio Lower Upper

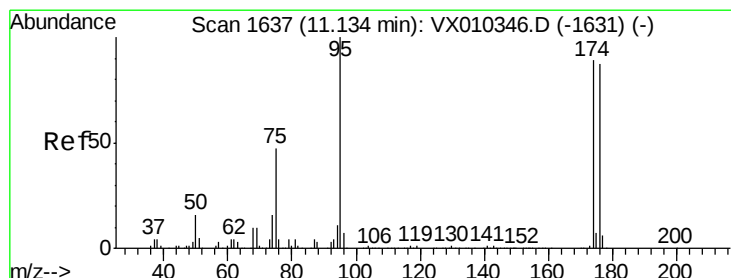
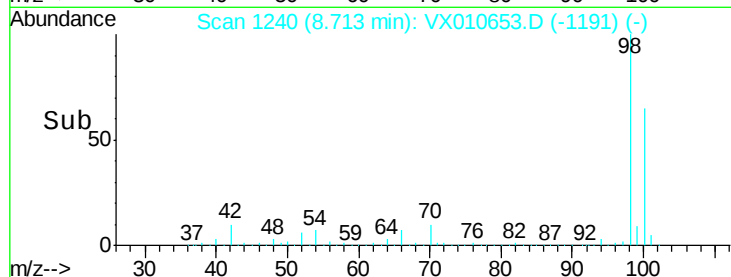
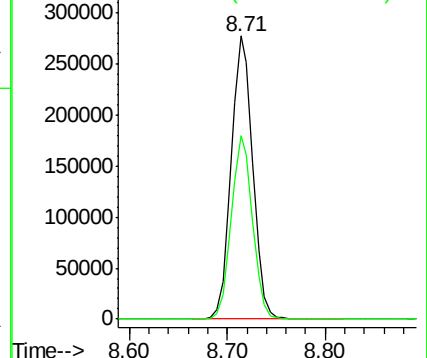
98 100

100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 46.560 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010653.D

Acq: 03 Jul 2019 20:18

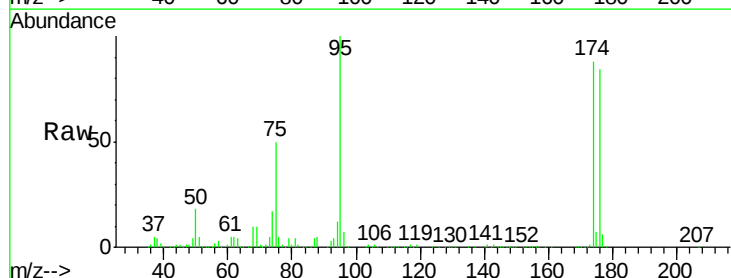
Tgt Ion: 95 Resp: 138729

Ion Ratio Lower Upper

95 100

174 94.7 0.0 187.6

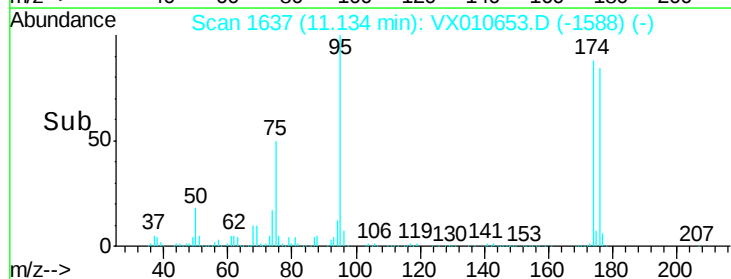
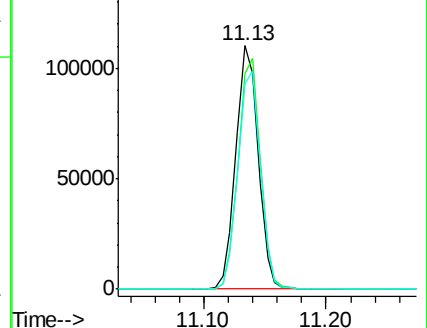
176 90.5 0.0 184.0

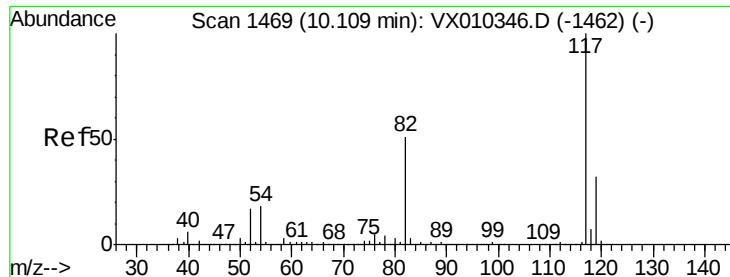


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

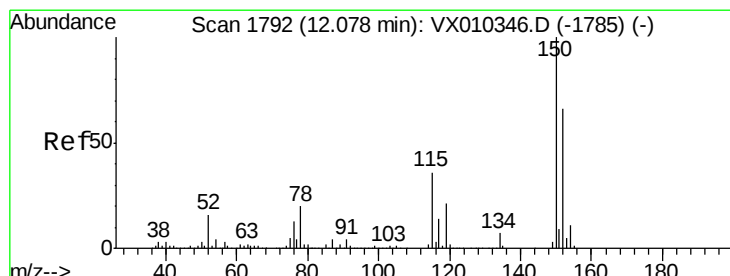
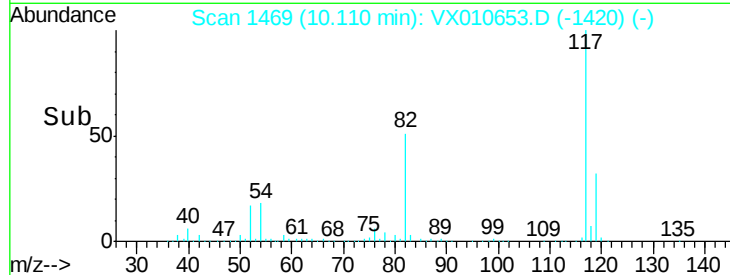
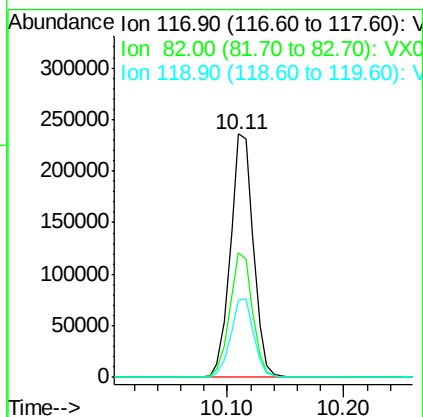
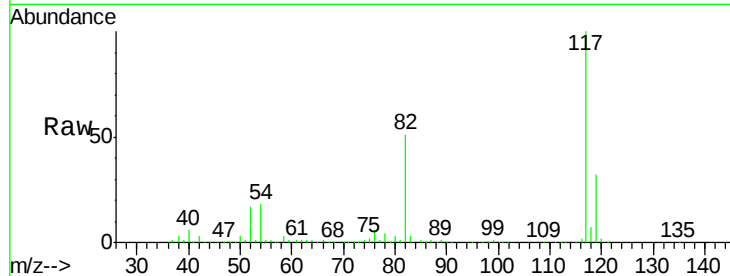




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010653.D  
Acq: 03 Jul 2019 20:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
MWHR3-8-070219

Tot Ion:117 Resp: 323801  
Ion Ratio Lower Upper  
117 100  
82 51.0 41.2 61.8  
119 31.6 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010653.D  
Acq: 03 Jul 2019 20:18

Tgt Ion:152 Resp: 143378  
Ion Ratio Lower Upper  
152 100  
115 54.6 38.6 115.7  
150 156.4 0.0 347.4

