

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041819\  
 Data File : VX009051.D  
 Acq On : 18 Apr 2019 18:05  
 Operator : JC/SP  
 Sample : K2461-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PZ-01

Quant Time: Apr 19 09:29:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 232687   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 380555   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 319051   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 134498   | 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   | 157726   | 48.10 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.20% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 115166   | 47.15 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.30% |          |
| 50) Toluene-d8              | 8.71  | 98   | 465654   | 47.81 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.62% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 149636   | 43.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.04% |          |

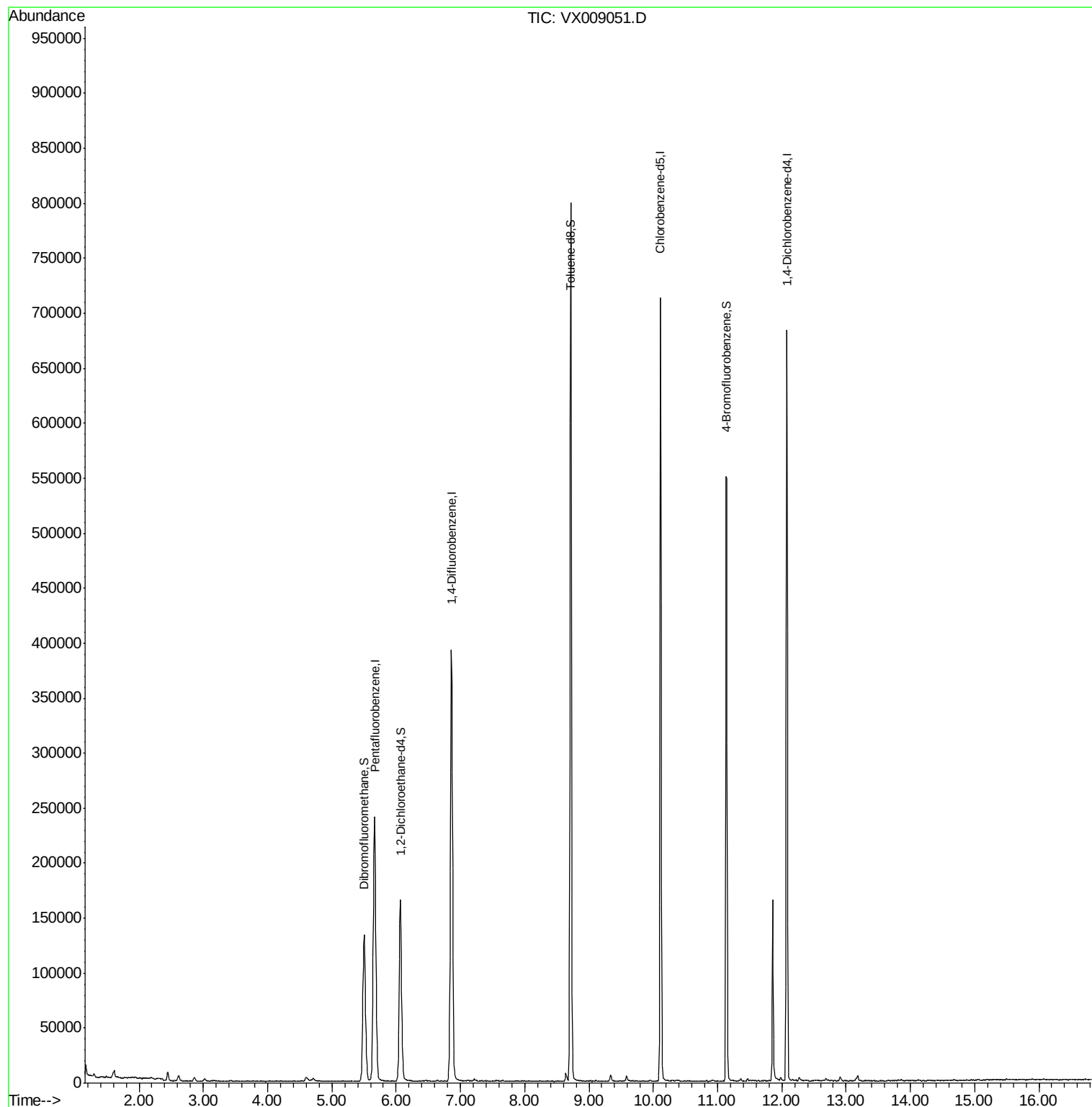
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

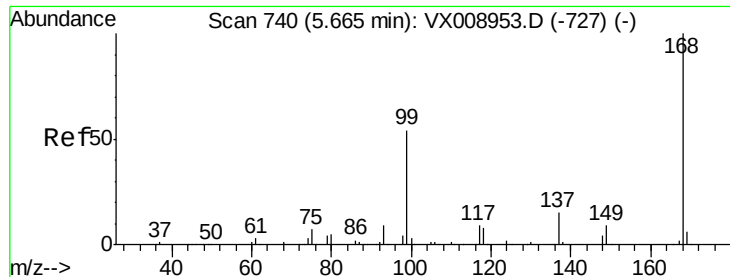
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 17 06:47:58 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA\_X

ClientSampleId :

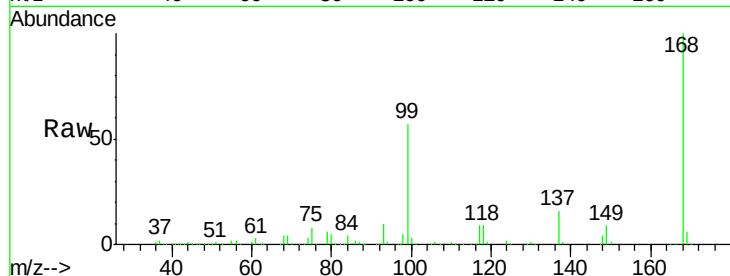
PZ-01

Tot Ion:168 Resp: 232687

Ion Ratio Lower Upper

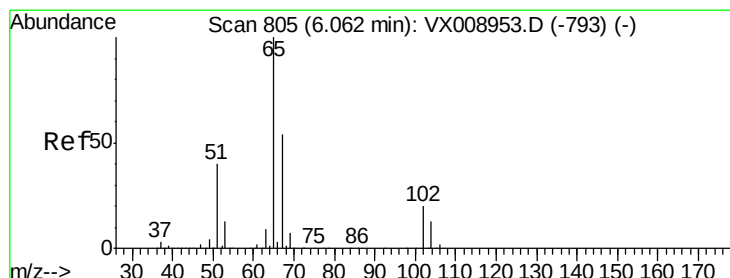
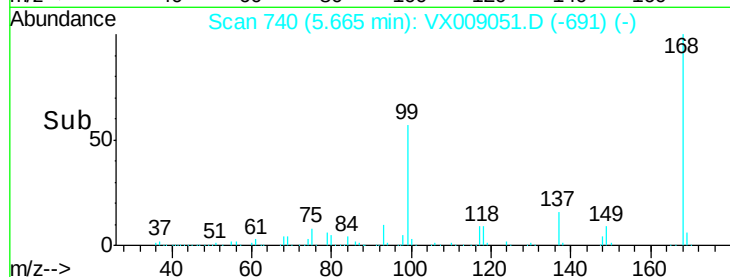
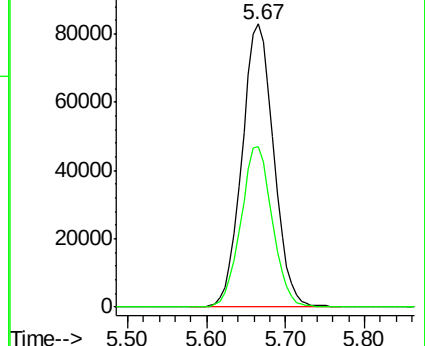
168 100

99 56.9 43.0 64.6



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: 48.099 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009051.D

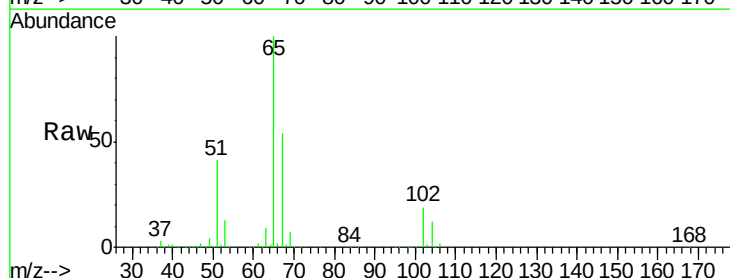
Acq: 18 Apr 2019 18:05

Tgt Ion: 65 Resp: 157726

Ion Ratio Lower Upper

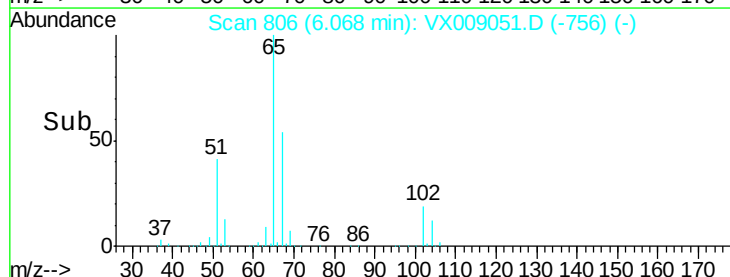
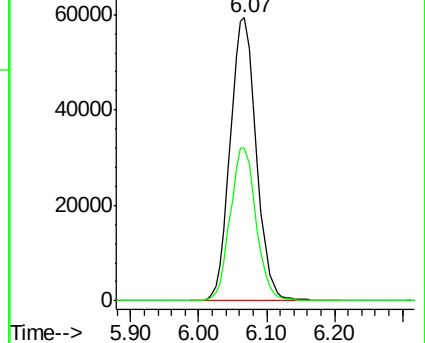
65 100

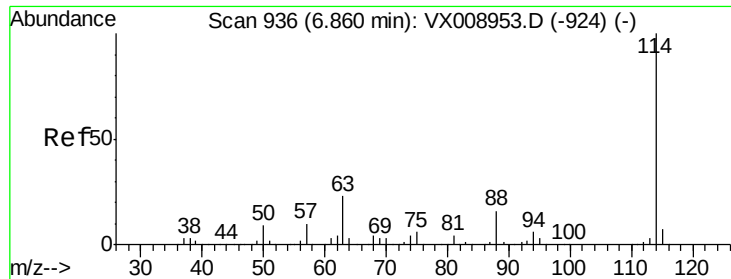
67 53.6 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

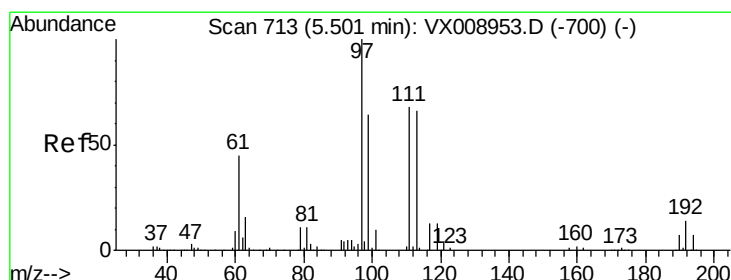
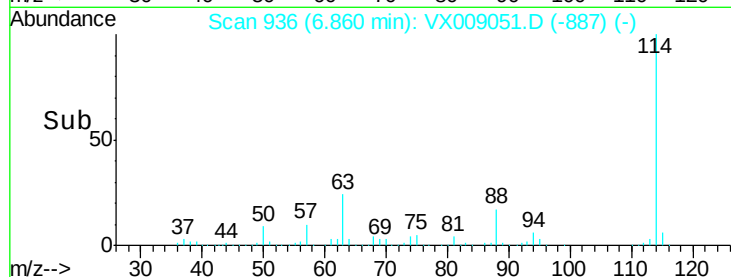
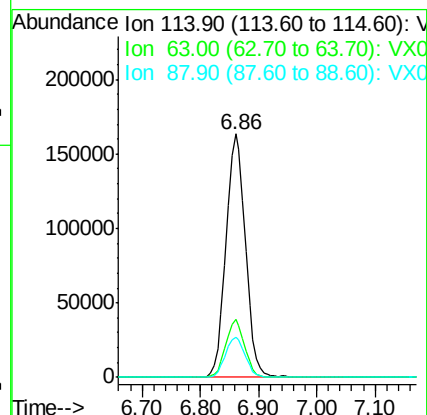
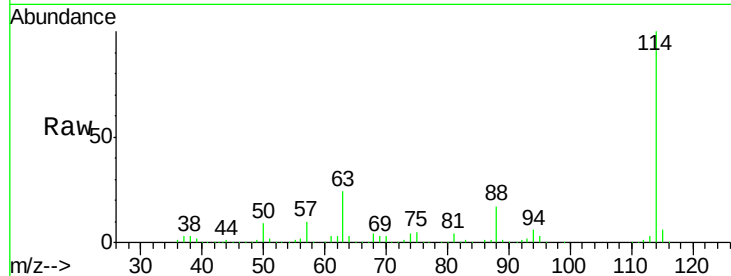




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009051.D  
 Acq: 18 Apr 2019 18:05

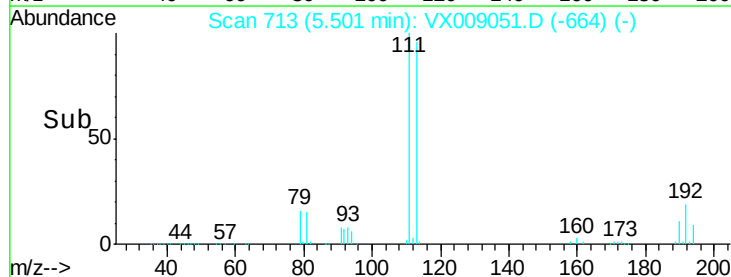
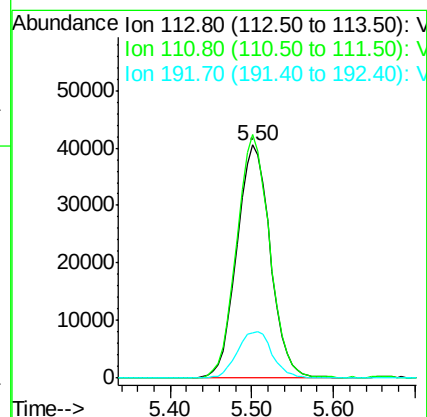
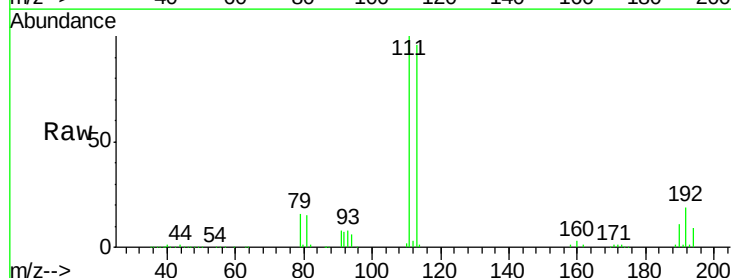
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PZ-01

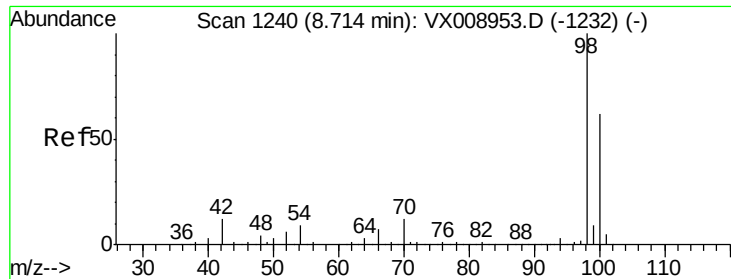
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.6  | 0.0   | 46.0  |
| 88      | 16.6  | 0.0   | 32.6  |



#35  
 Dibromofluoromethane  
 Concen: 47.155 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX009051.D  
 Acq: 18 Apr 2019 18:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 82.9  | 124.3 |
| 192     | 20.9  | 17.4  | 26.0  |





#50

Toluene-d8

Concen: 47.808 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

Instrument :

MSVOA\_X

ClientSampleId :

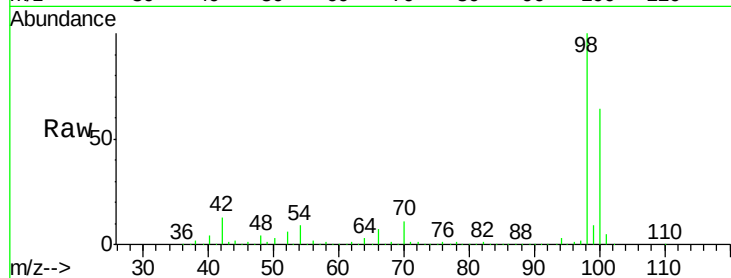
PZ-01

Tot Ion: 98 Resp: 465654

Ion Ratio Lower Upper

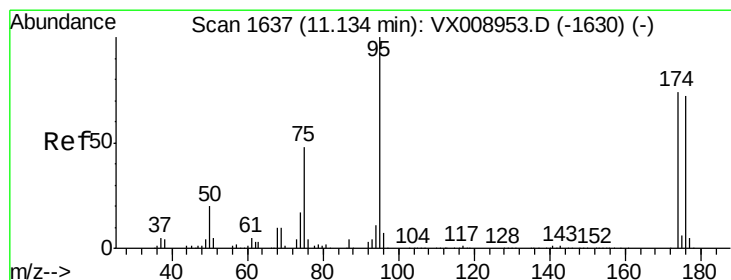
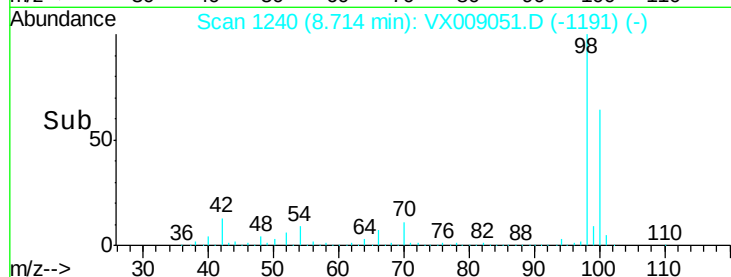
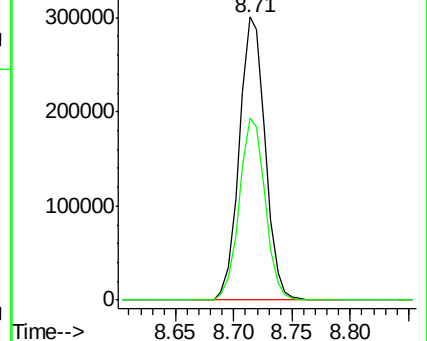
98 100

100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 43.521 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009051.D

Acq: 18 Apr 2019 18:05

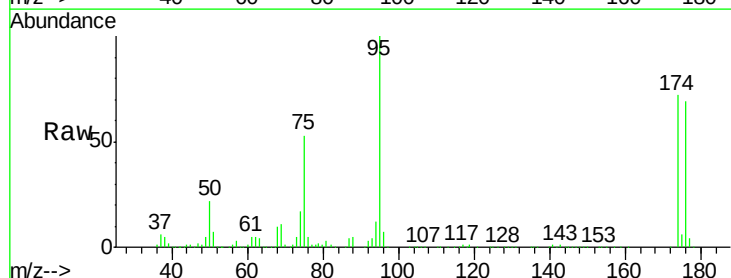
Tgt Ion: 95 Resp: 149636

Ion Ratio Lower Upper

95 100

174 79.2 0.0 159.6

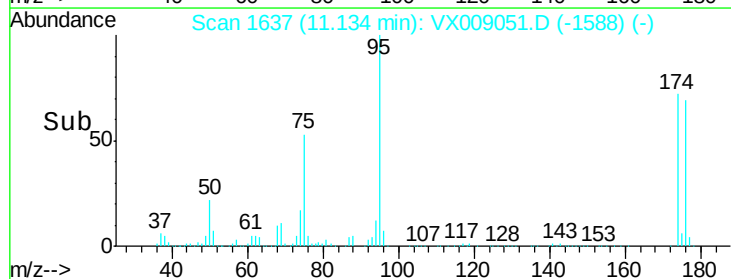
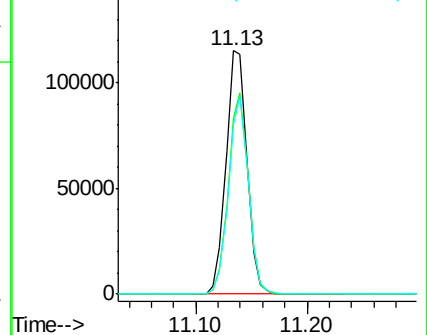
176 76.8 0.0 154.8

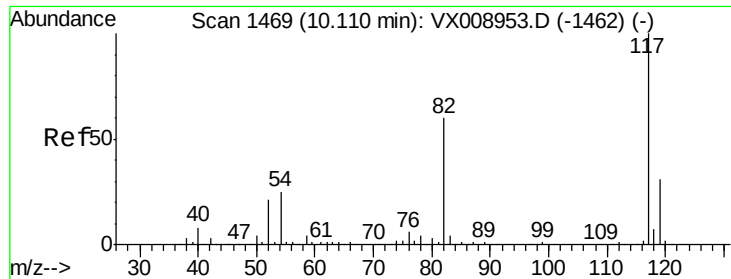


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

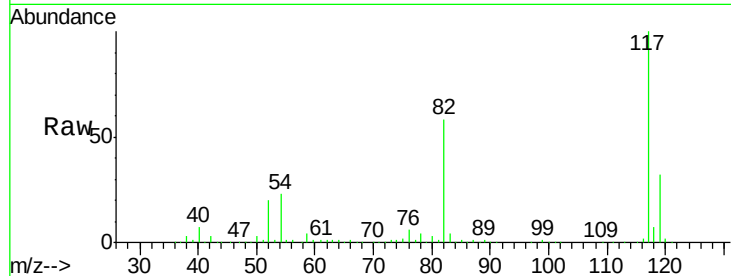




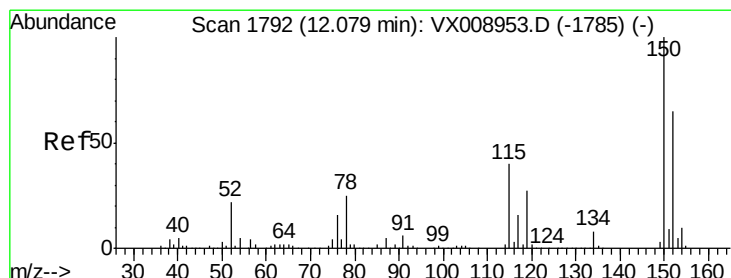
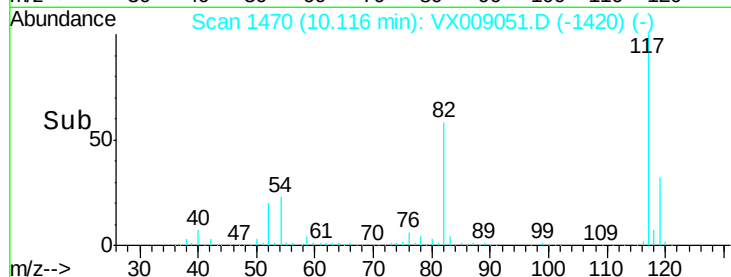
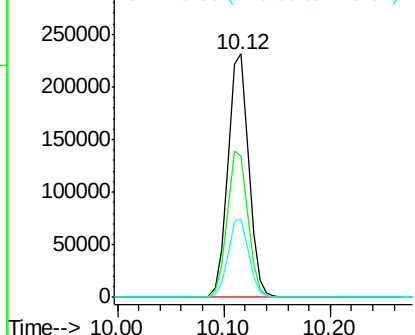
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX009051.D  
Acq: 18 Apr 2019 18:05

Instrument :  
MSVOA\_X  
ClientSampleId :  
PZ-01

Tot Ion:117 Resp: 319051  
Ion Ratio Lower Upper  
117 100  
82 57.9 48.2 72.4  
119 32.5 25.0 37.6

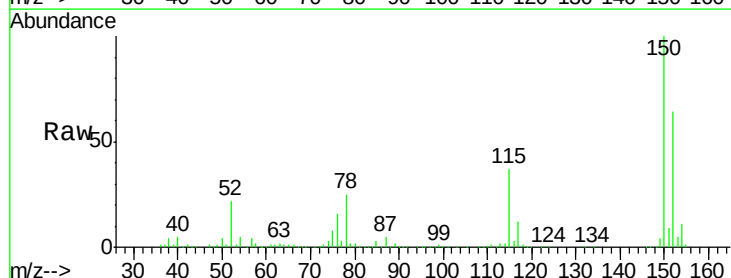


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX009051.D  
Acq: 18 Apr 2019 18:05

Tgt Ion:152 Resp: 134498  
Ion Ratio Lower Upper  
152 100  
115 59.8 41.4 124.2  
150 156.8 0.0 349.8



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

