

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032619\  
 Data File : VX008451.D  
 Acq On : 26 Mar 2019 12:57  
 Operator : JC/SP  
 Sample : K2082-14  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: Mar 27 02:10:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 26 07:57:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 229603   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 387197   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 332793   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 136477   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 163501   | 46.97 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.94% |      |
| 35) Dibromofluoromethane    | 5.50   | 113 | 120586   | 47.76 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.52% |      |
| 50) Toluene-d8              | 8.71   | 98  | 487275   | 48.27 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.54% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 163088   | 43.60 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.20% |      |

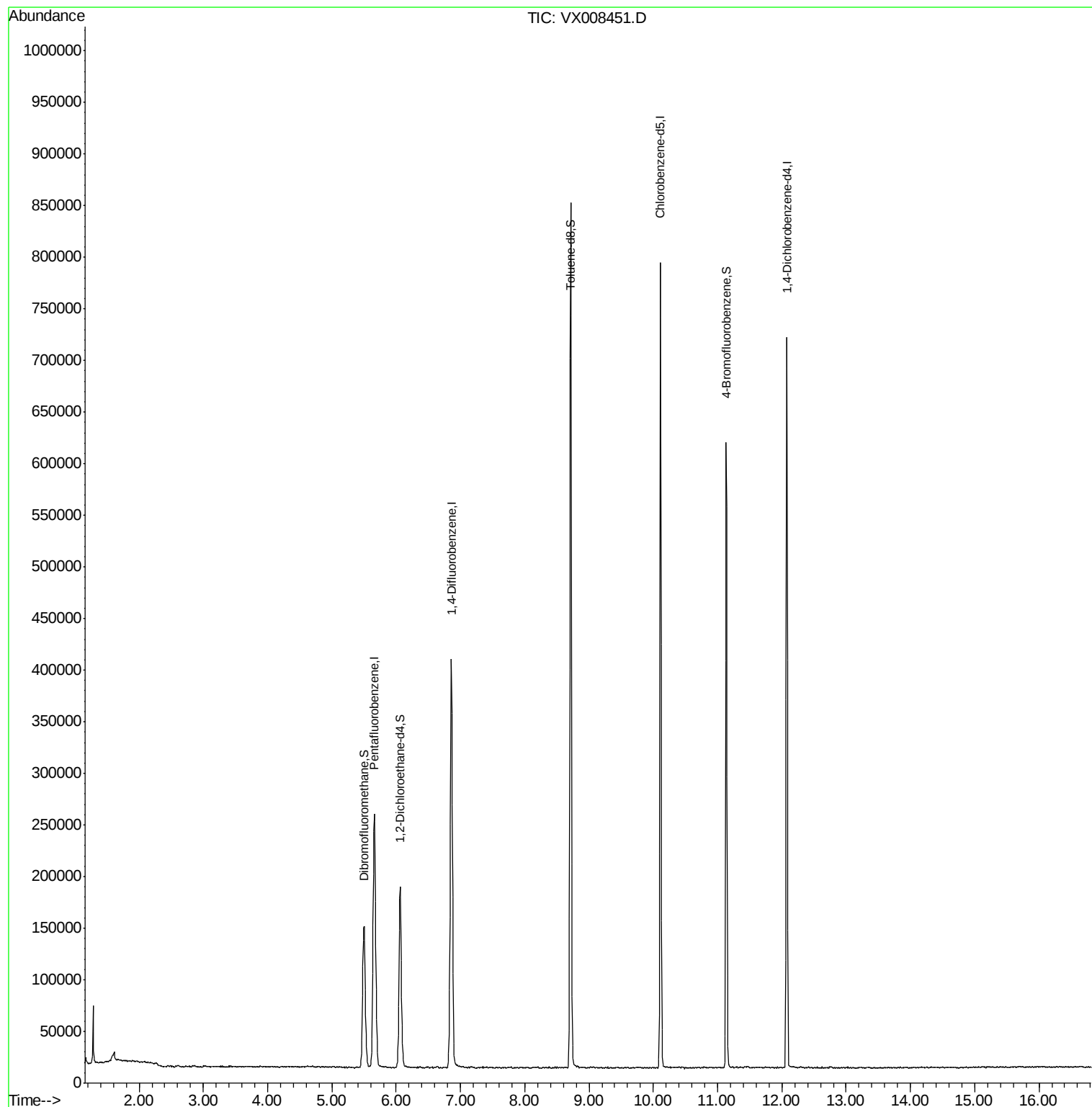
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

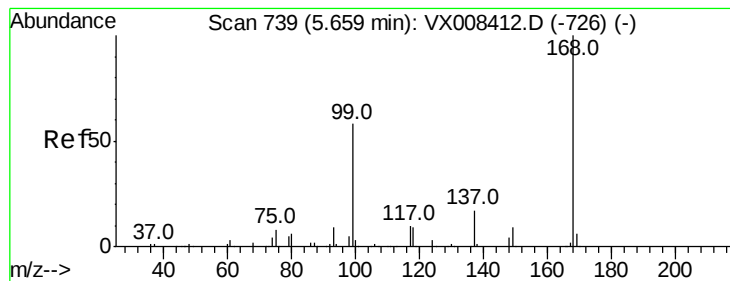
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Mar 26 07:57:20 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008451.D

Acq: 26 Mar 2019 12:57

Instrument :

MSVOA\_X

ClientSampleId :

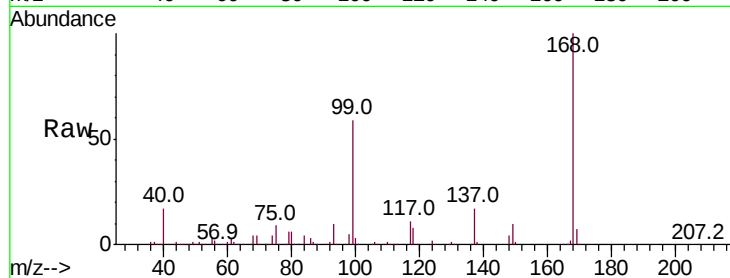
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:168 Resp: 229603

Ion Ratio Lower Upper

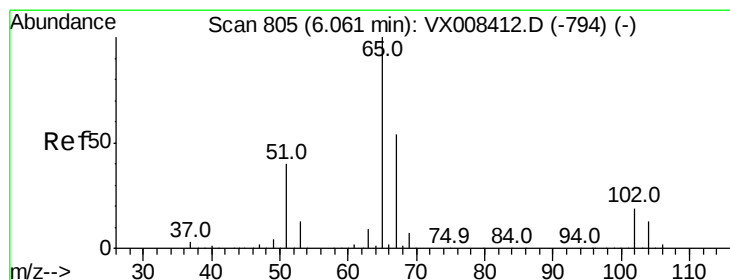
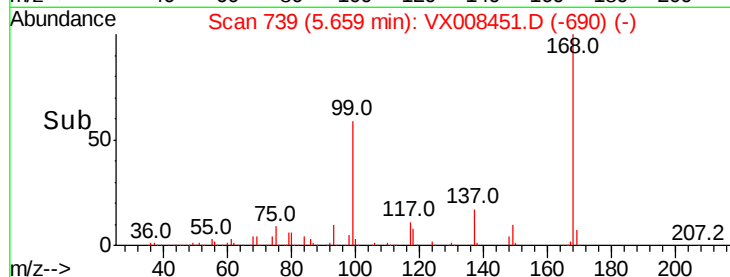
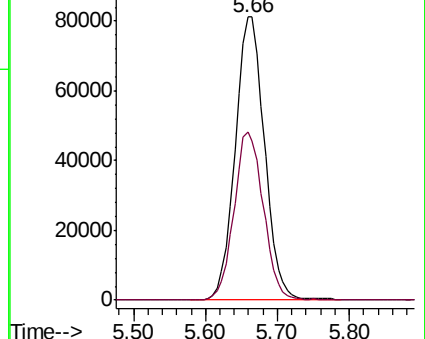
168 100

99 59.5 46.0 69.0



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: 46.972 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008451.D

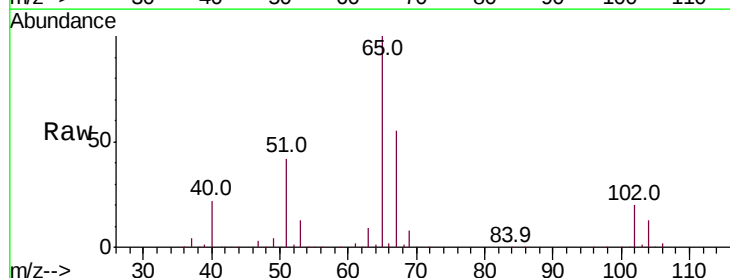
Acq: 26 Mar 2019 12:57

Tgt Ion: 65 Resp: 163501

Ion Ratio Lower Upper

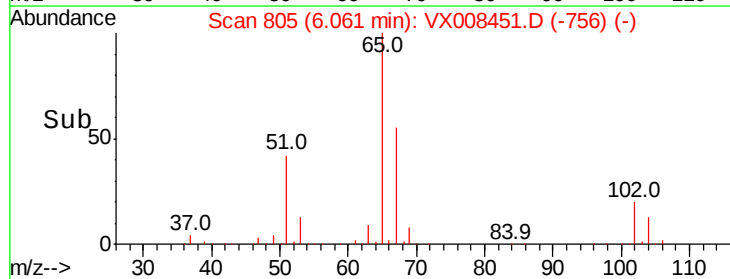
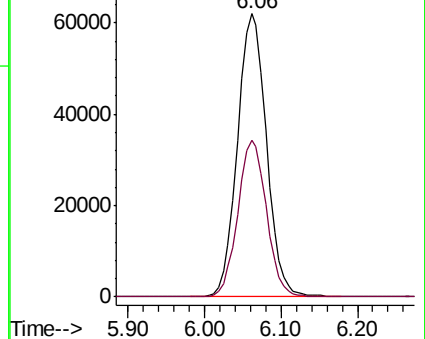
65 100

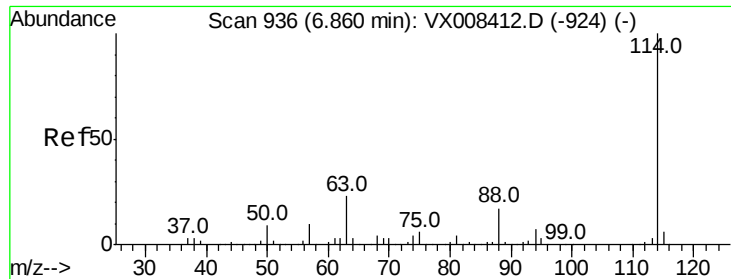
67 54.5 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

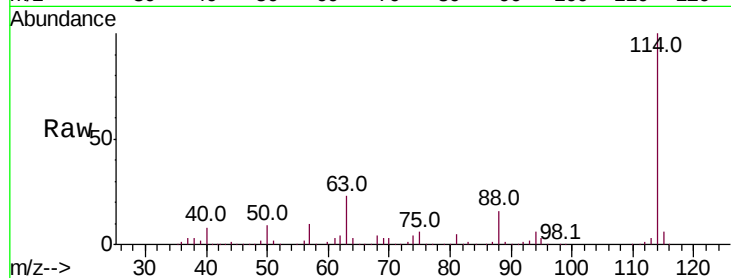




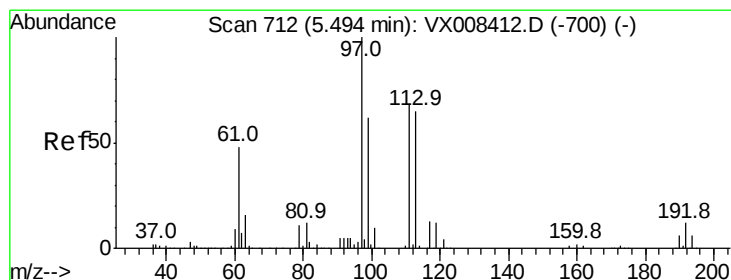
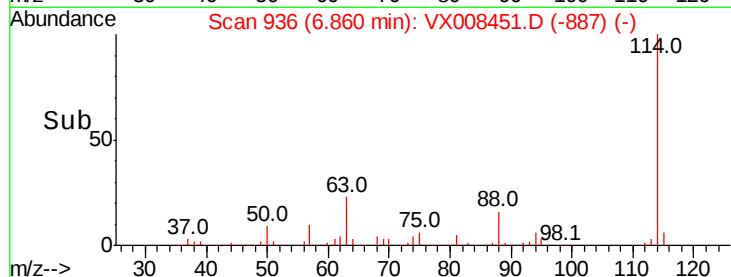
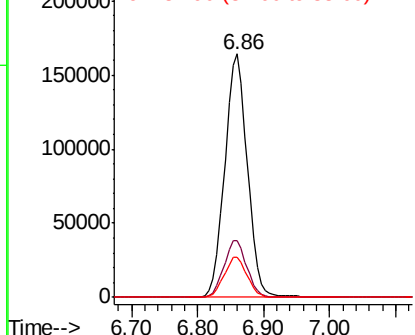
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX008451.D  
 Acq: 26 Mar 2019 12:57

Instrument :  
 MSVOA\_X  
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 STORAGE-BLANK-SAMPLE-MANA

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.3  | 0.0   | 46.4  |
| 88      | 16.4  | 0.0   | 33.2  |

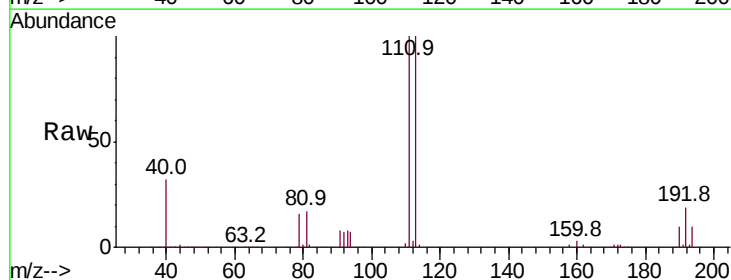


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

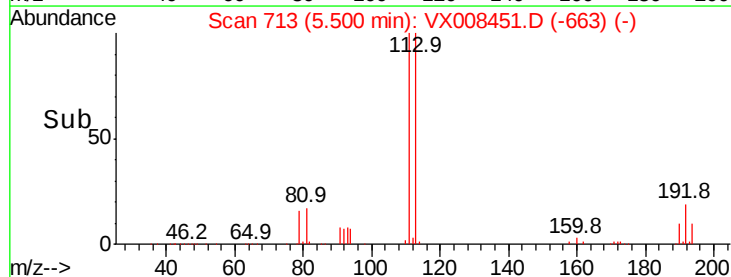
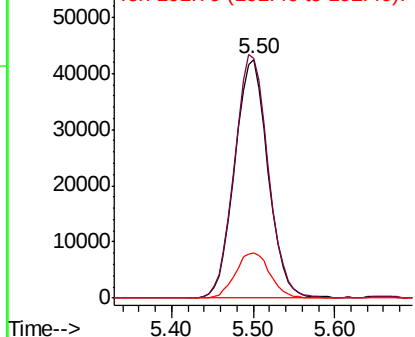


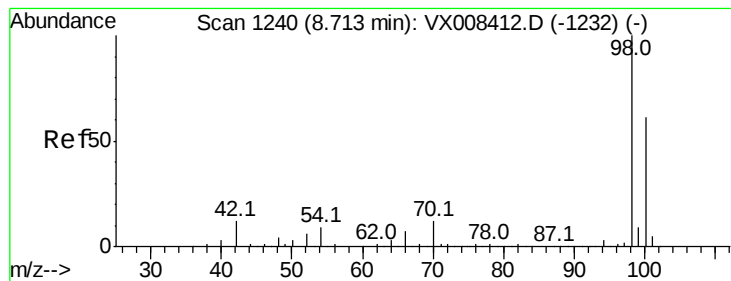
#35  
 Dibromofluoromethane  
 Concen: 47.762 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX008451.D  
 Acq: 26 Mar 2019 12:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 83.0  | 124.4 |
| 192     | 19.8  | 15.6  | 23.4  |



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





#50

Toluene-d8

Concen: 48.268 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008451.D

Acq: 26 Mar 2019 12:57

Instrument :

MSVOA\_X

ClientSampleId :

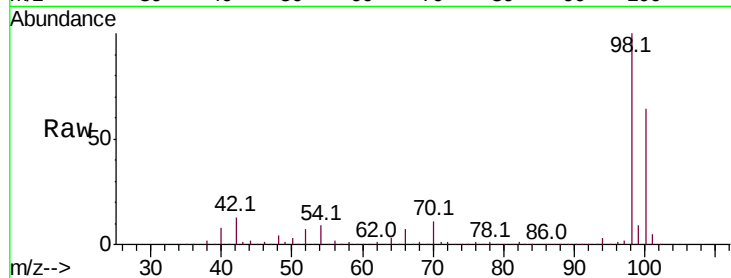
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 98 Resp: 487275

Ion Ratio Lower Upper

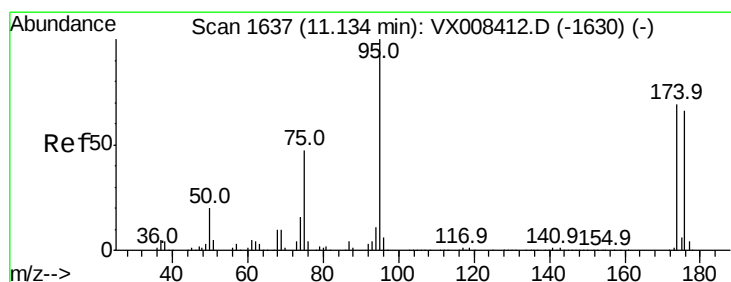
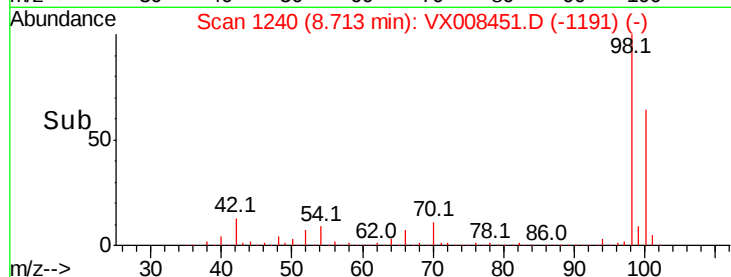
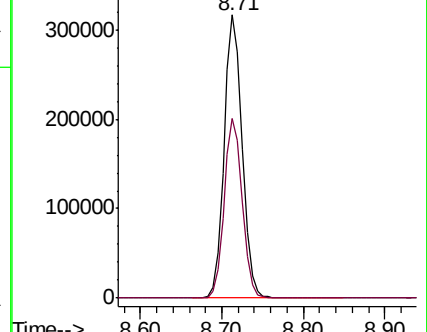
98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 43.596 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008451.D

Acq: 26 Mar 2019 12:57

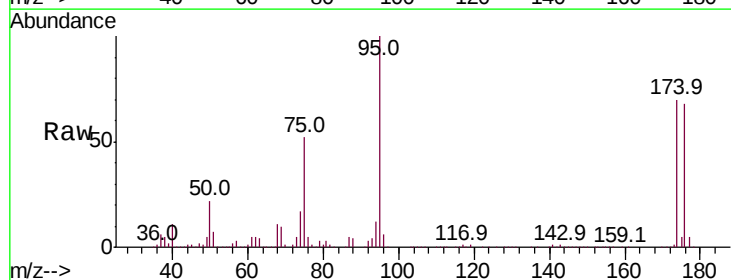
Tgt Ion: 95 Resp: 163088

Ion Ratio Lower Upper

95 100

174 74.0 0.0 147.2

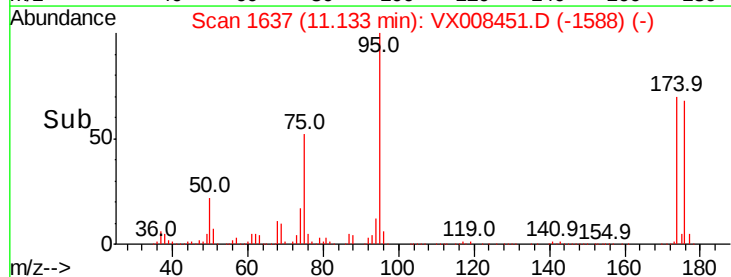
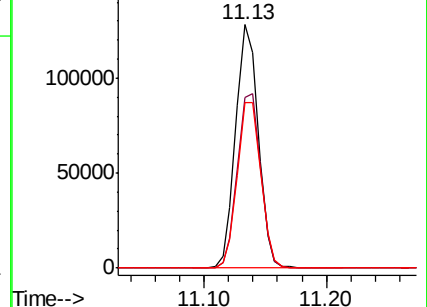
176 71.3 0.0 142.4

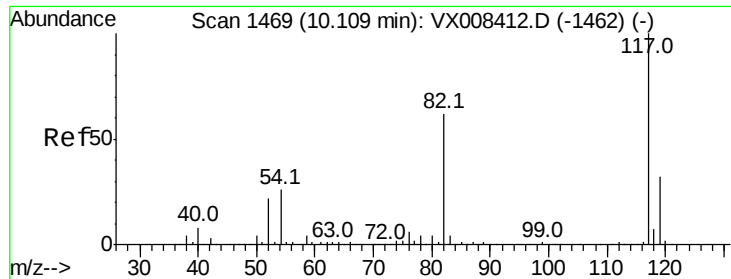


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

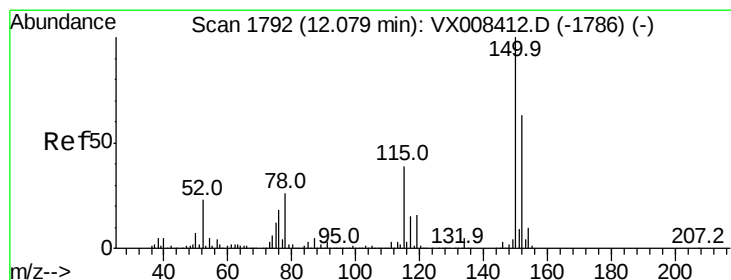
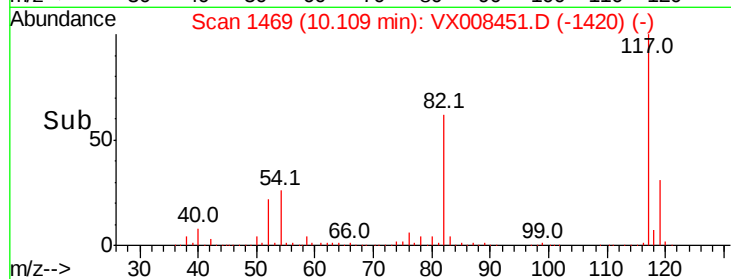
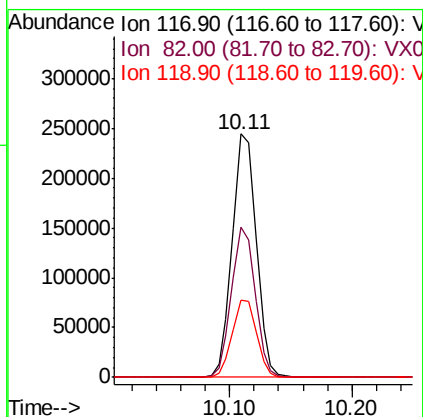
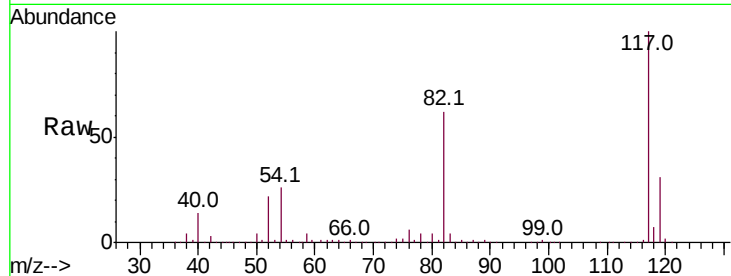




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX008451.D  
Acq: 26 Mar 2019 12:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:117 Resp: 332793  
Ion Ratio Lower Upper  
117 100  
82 61.7 49.4 74.2  
119 31.5 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX008451.D  
Acq: 26 Mar 2019 12:57

Tgt Ion:152 Resp: 136477  
Ion Ratio Lower Upper  
152 100  
115 62.6 43.5 130.5  
150 159.1 0.0 348.8

