

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\  
 Data File : VX003246.D  
 Acq On : 09 Jul 2018 15:27  
 Operator : JC/MD  
 Sample : VX0709MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0709MBL01

Quant Time: Jul 09 16:26:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X070918W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 09 15:24:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 313040   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 432711   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 390505   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 221269   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 188707   | 38.30 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 76.60% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 164529   | 35.39 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 70.78% |      |
| 50) Toluene-d8              | 8.72   | 98  | 596459   | 36.12 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 72.24% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 206547   | 33.85 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 67.70% |      |

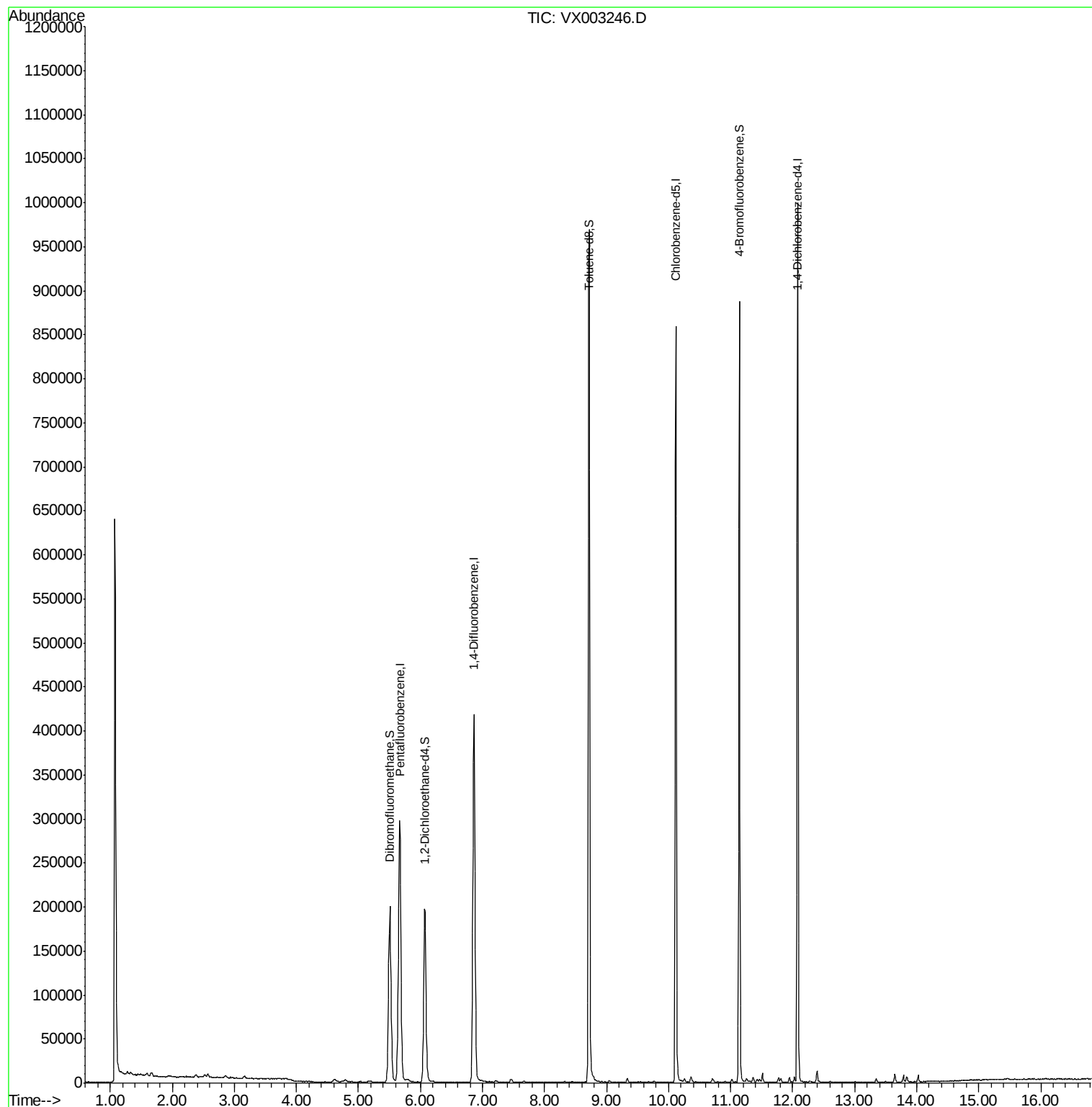
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

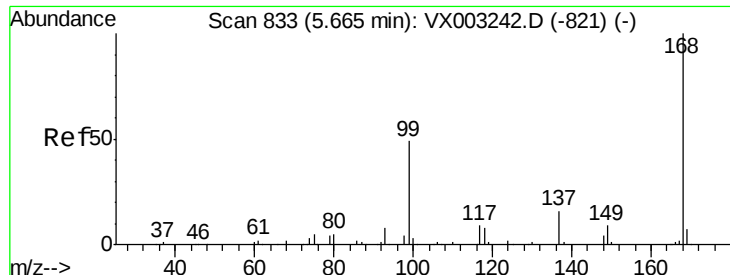
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VX0709MBL01  
Misc : 5.0µ/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0709MBL01

Quant Time: Jul 09 16:26:53 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X070918W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 09 15:24:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003246.D

Acq: 09 Jul 2018 15:27

Instrument :

MSVOA\_X

ClientSampleId :

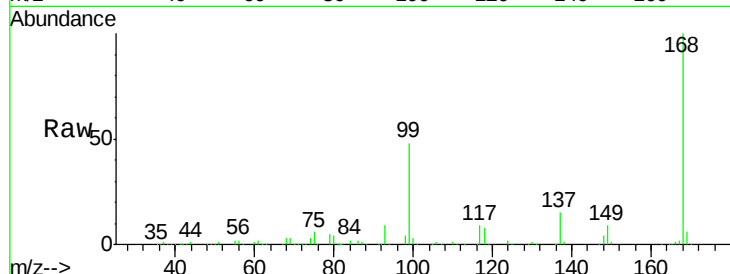
VX0709MBL01

Tot Ion:168 Resp: 313040

Ion Ratio Lower Upper

168 100

99 47.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

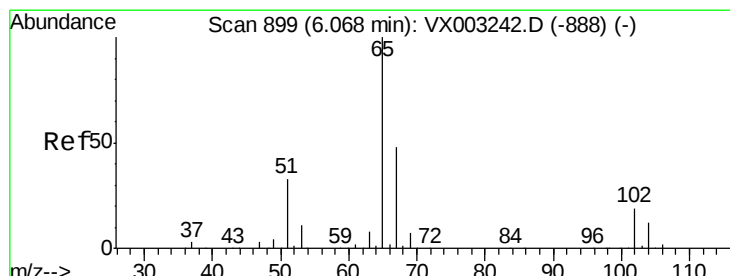
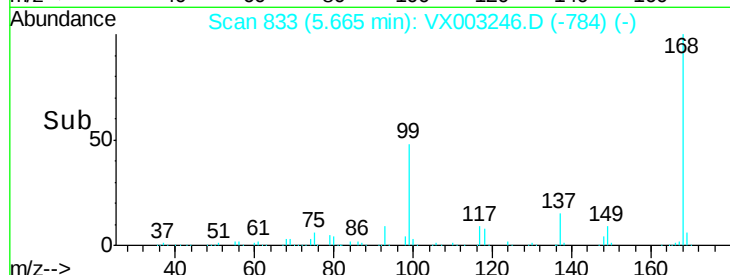
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#33

1,2-Dichloroethane-d4

Concen: 38.30 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003246.D

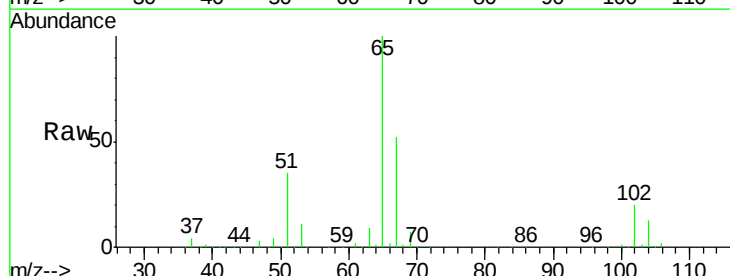
Acq: 09 Jul 2018 15:27

Tgt Ion: 65 Resp: 188707

Ion Ratio Lower Upper

65 100

67 52.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

60000

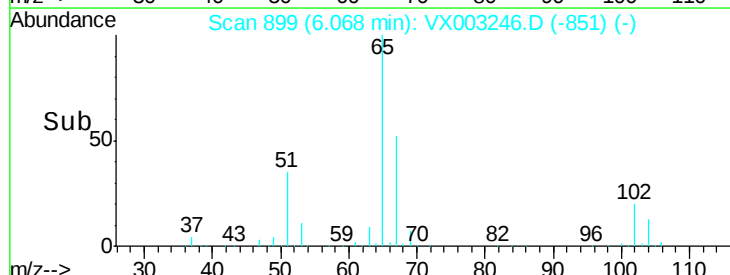
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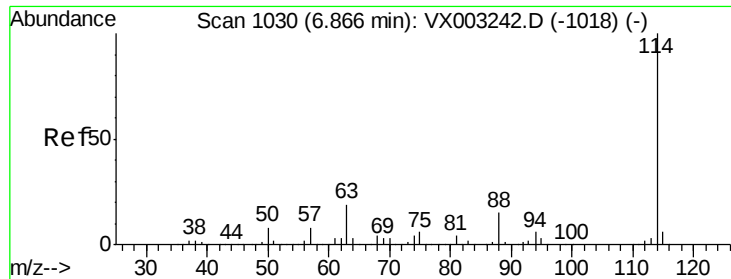
20000

0

Time-->

6.00 6.10 6.20

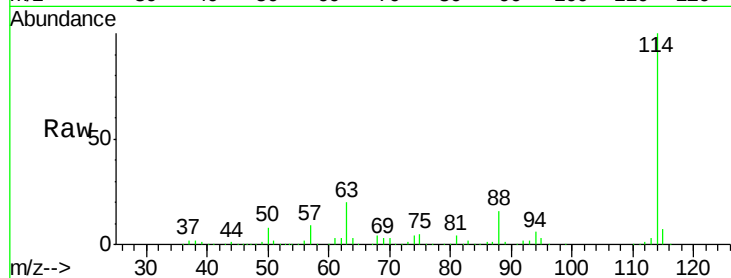




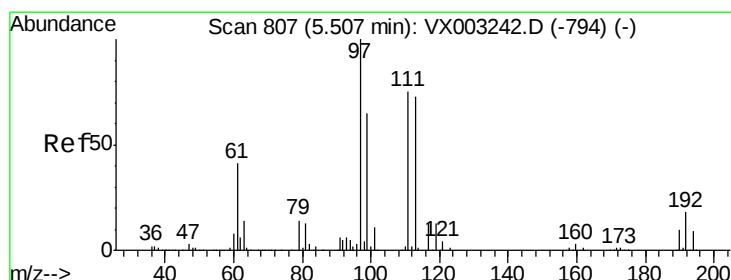
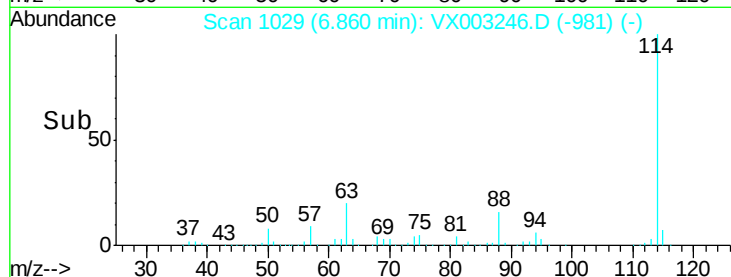
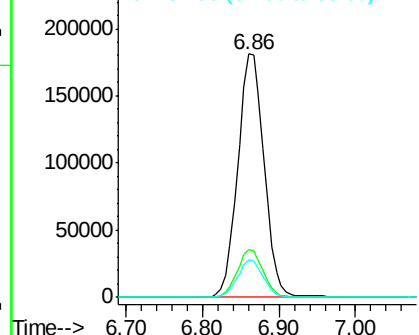
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 1029  
 Delta R.T. -0.01 min  
 Lab File: VX003246.D  
 Acq: 09 Jul 2018 15:27

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0709MBL01

Tot Ion:114 Resp: 432711  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 41.4  
 88 15.6 0.0 30.0

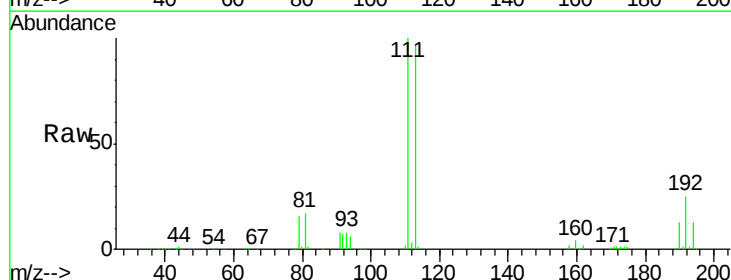


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX  
 Ion 87.90 (87.60 to 88.60): VX

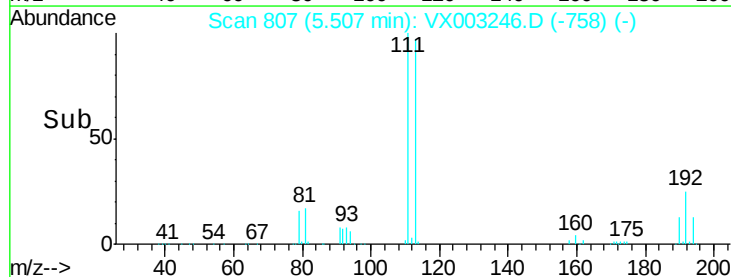
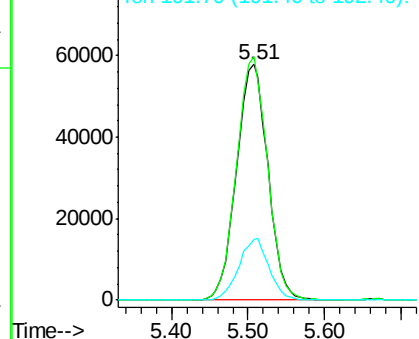


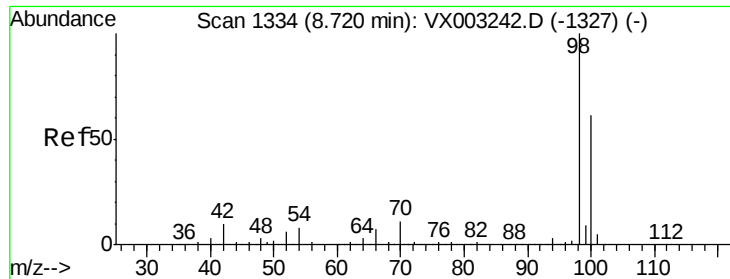
#35  
 Dibromofluoromethane  
 Concen: 35.39 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. -0.00 min  
 Lab File: VX003246.D  
 Acq: 09 Jul 2018 15:27

Tgt Ion:113 Resp: 164529  
 Ion Ratio Lower Upper  
 113 100  
 111 101.6 81.4 122.0  
 192 25.0 19.1 28.7



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: 36.12 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX003246.D

Acq: 09 Jul 2018 15:27

Instrument :

MSVOA\_X

ClientSampleId :

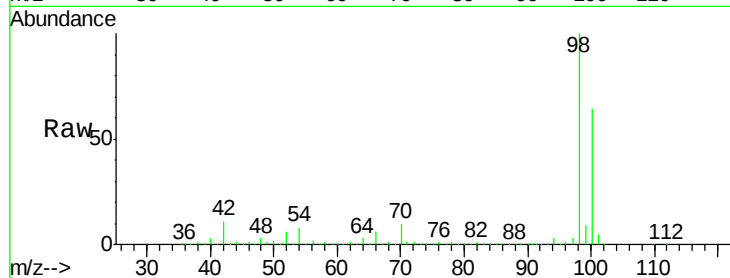
VX0709MBL01

Tot Ion: 98 Resp: 596459

Ion Ratio Lower Upper

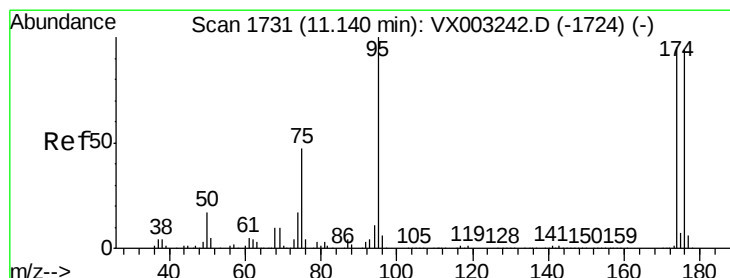
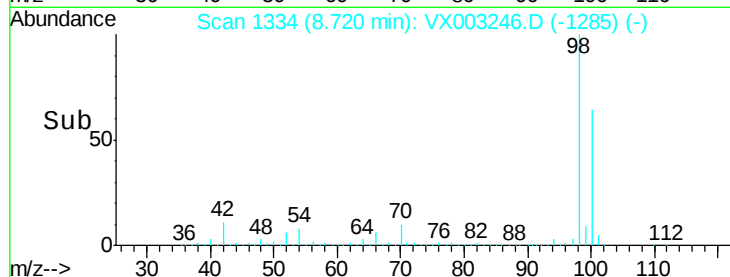
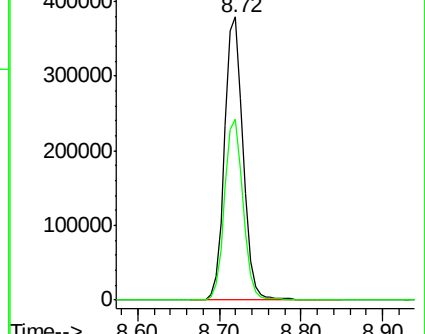
98 100

100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 33.85 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003246.D

Acq: 09 Jul 2018 15:27

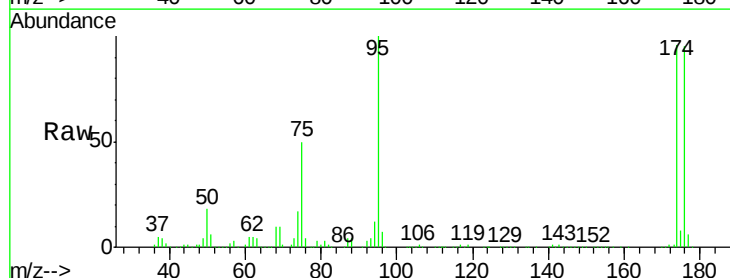
Tgt Ion: 95 Resp: 206547

Ion Ratio Lower Upper

95 100

174 98.6 0.0 187.4

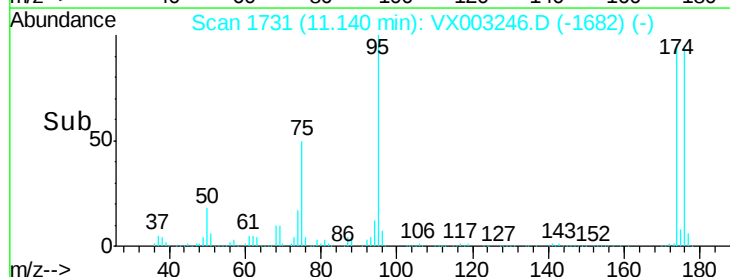
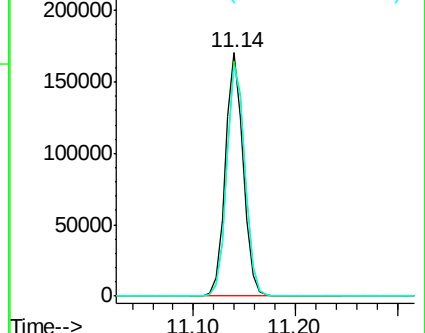
176 96.7 0.0 181.0

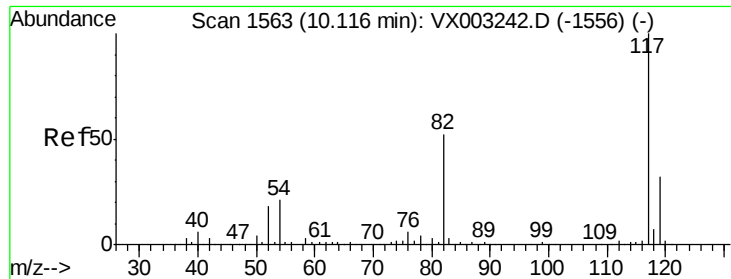


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

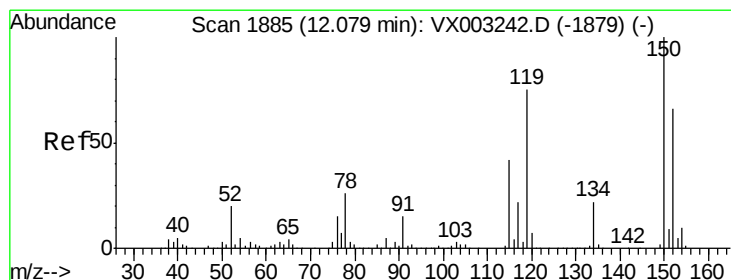
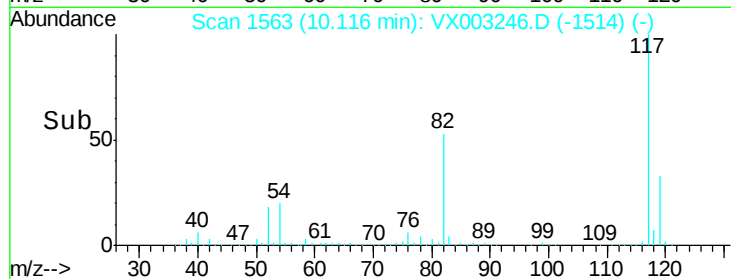
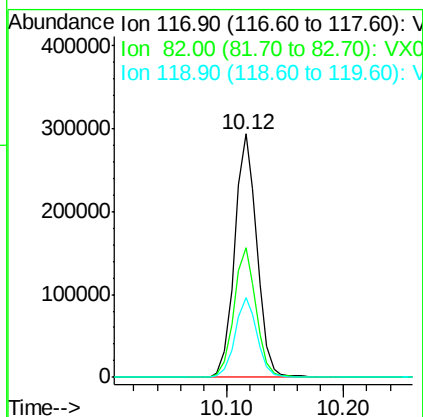
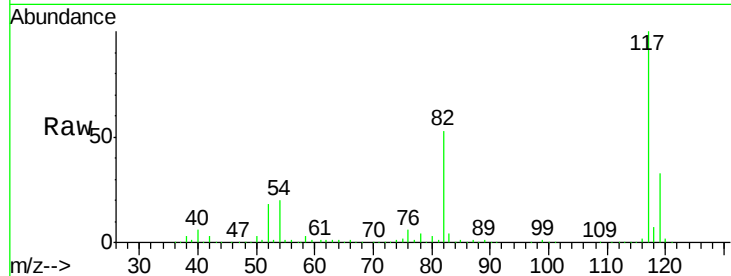




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX003246.D  
Acq: 09 Jul 2018 15:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0709MBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.1  | 45.0  | 67.4  |
| 119     | 32.7  | 25.8  | 38.6  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1885  
Delta R.T. -0.00 min  
Lab File: VX003246.D  
Acq: 09 Jul 2018 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 53.2  | 40.1  | 120.2 |
| 150     | 155.7 | 0.0   | 347.2 |

