

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\  
 Data File : VX005047.D  
 Acq On : 05 Oct 2018 04:57  
 Operator : JC/MD  
 Sample : J5233-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 85 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-01-181002

Quant Time: Oct 05 14:12:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 208567   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 332818   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 319245   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 168001   | 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   | 160159   | 53.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.52% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 137575   | 48.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.54%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 478527   | 51.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.06% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 163728   | 48.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.94%  |          |

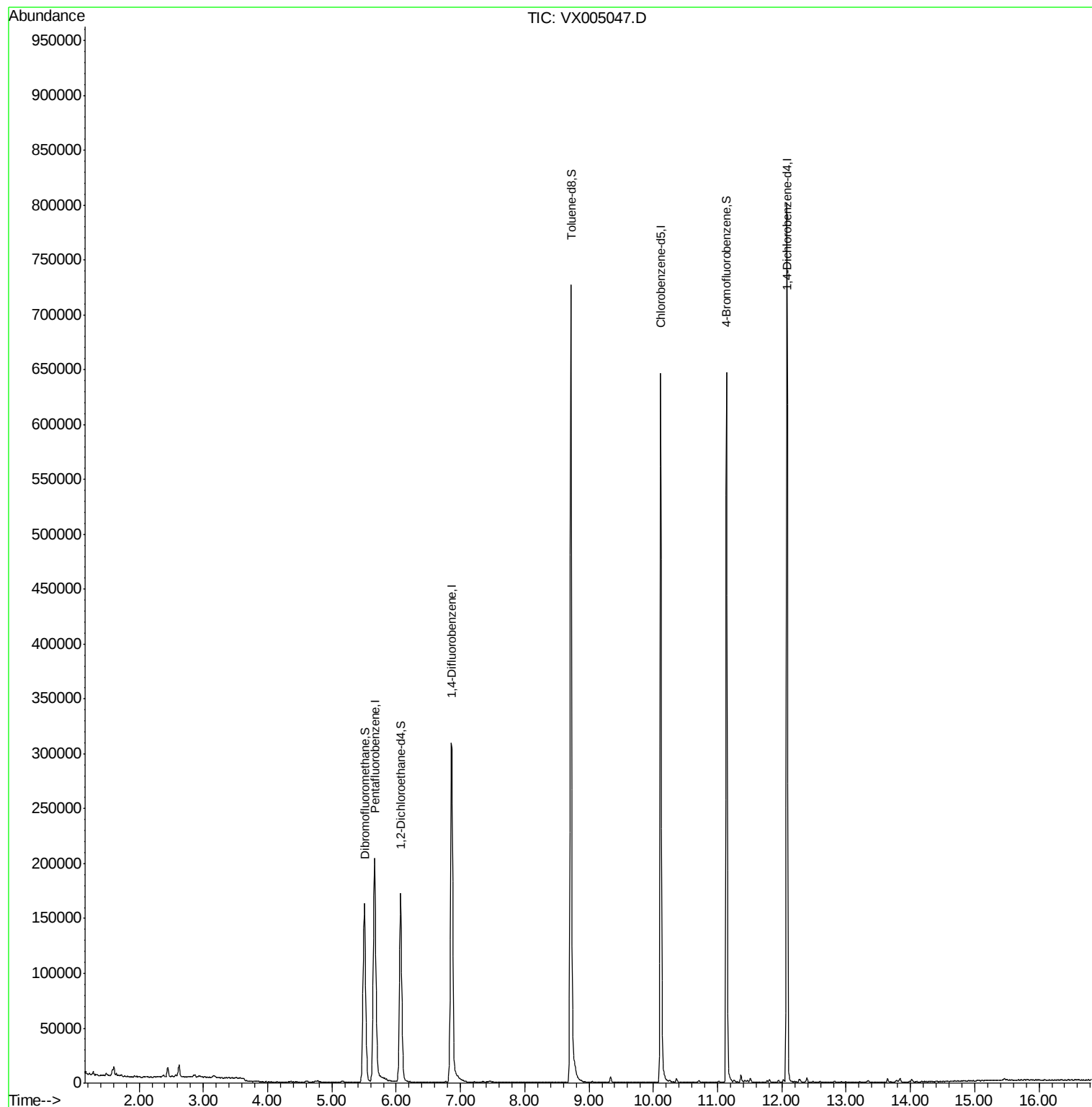
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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TB-01-181002

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 03 04:00:03 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005047.D

Acq: 05 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampleId :

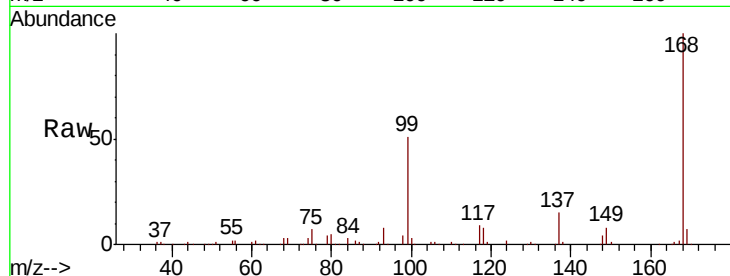
TB-01-181002

Tot Ion:168 Resp: 208567

Ion Ratio Lower Upper

168 100

99 50.8 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

80000

60000

40000

20000

0

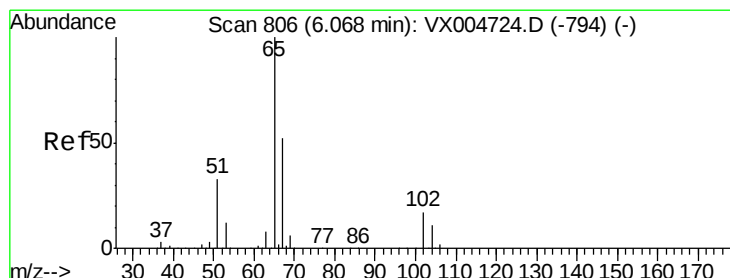
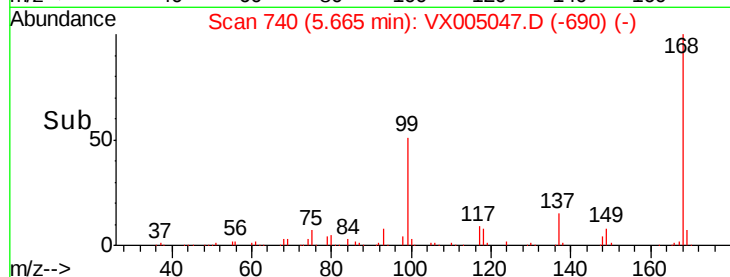
Time-->

5.50

5.60

5.70

5.80



#33

1,2-Dichloroethane-d4

Concen: 53.756 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005047.D

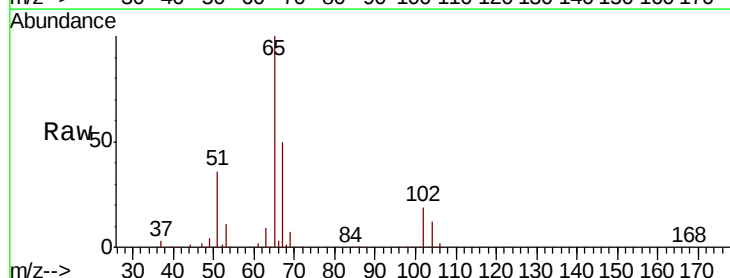
Acq: 05 Oct 2018 04:57

Tgt Ion: 65 Resp: 160159

Ion Ratio Lower Upper

65 100

67 53.7 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

40000

20000

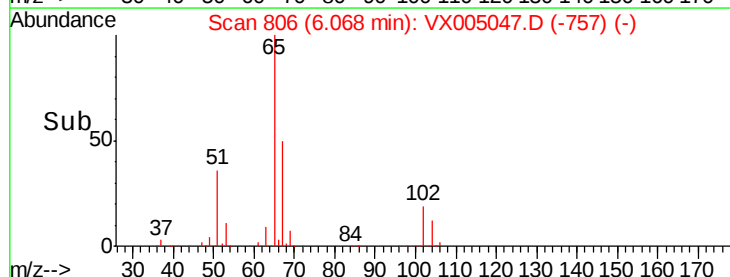
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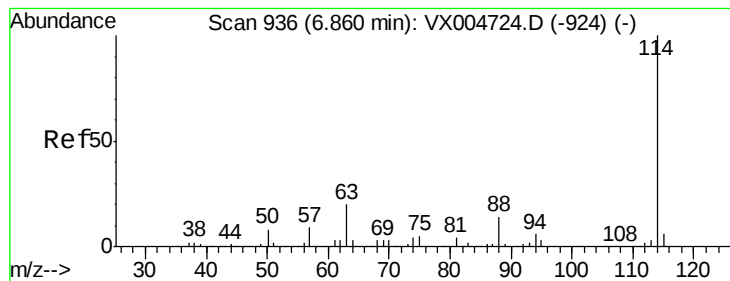
Time-->

6.00

6.10

6.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005047.D

Acq: 05 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampleId :

TB-01-181002

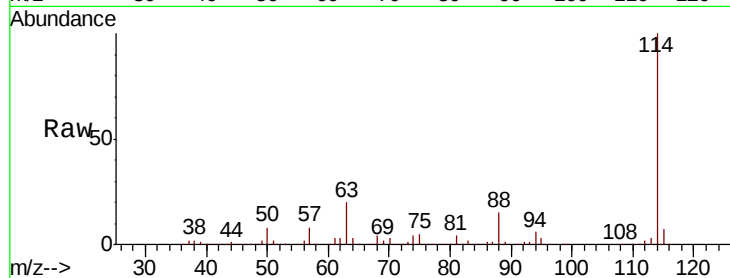
Tot Ion:114 Resp: 332818

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.8

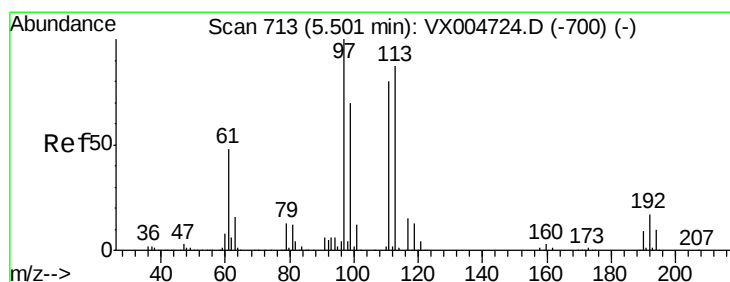
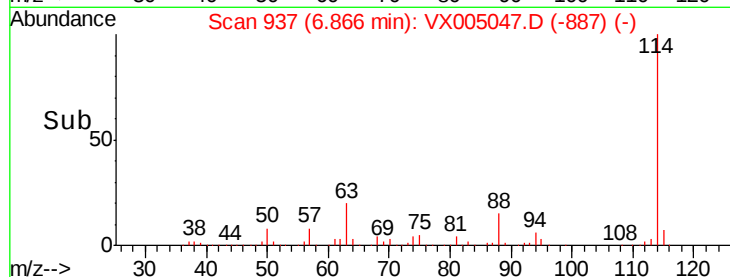
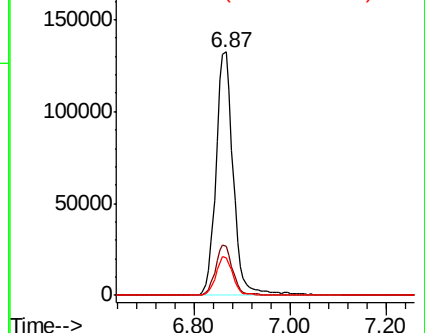
88 15.2 0.0 27.0



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: 48.774 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005047.D

Acq: 05 Oct 2018 04:57

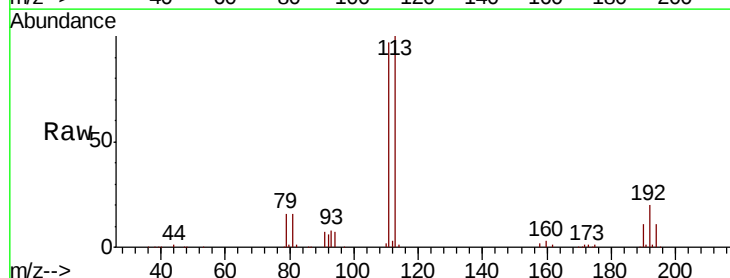
Tgt Ion:113 Resp: 137575

Ion Ratio Lower Upper

113 100

111 101.5 77.0 115.4

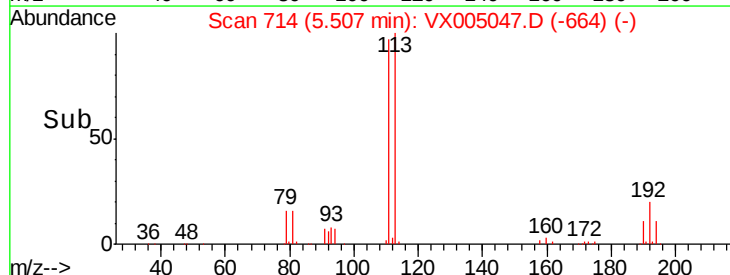
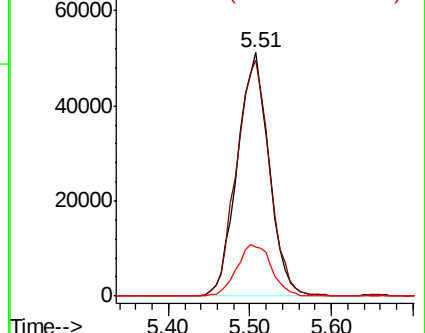
192 23.3 17.0 25.6

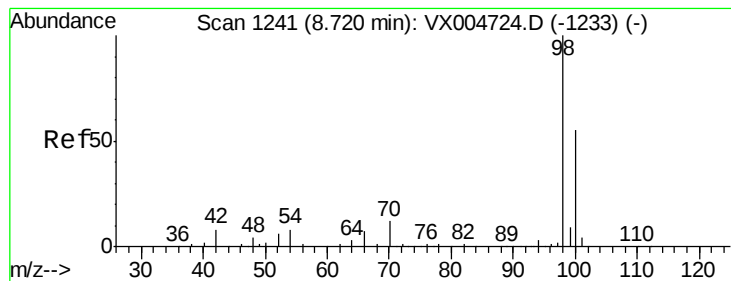


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 51.030 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX005047.D

Acq: 05 Oct 2018 04:57

Instrument :

MSVOA\_X

ClientSampleId :

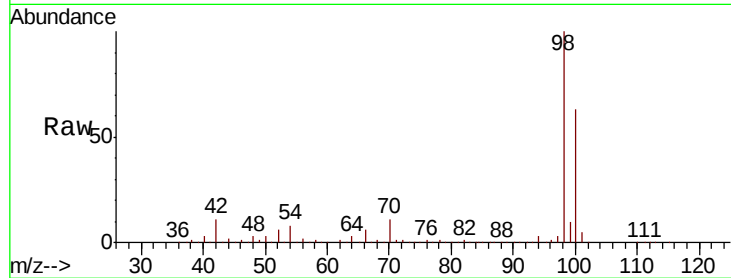
TB-01-181002

Tot Ion: 98 Resp: 478527

Ion Ratio Lower Upper

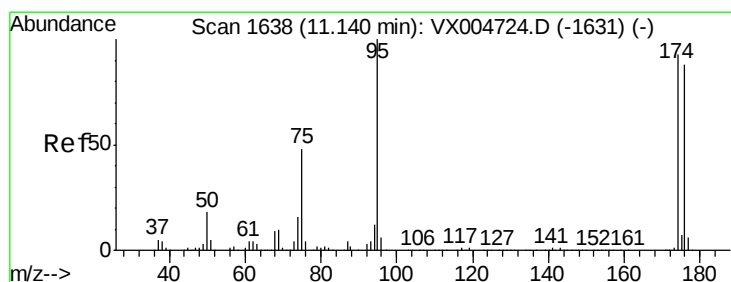
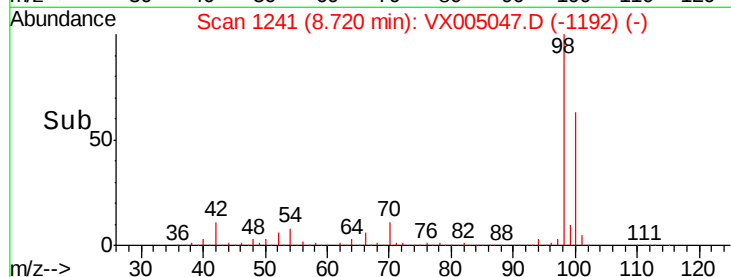
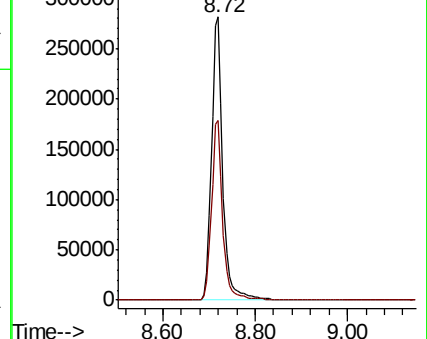
98 100

100 63.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 48.466 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005047.D

Acq: 05 Oct 2018 04:57

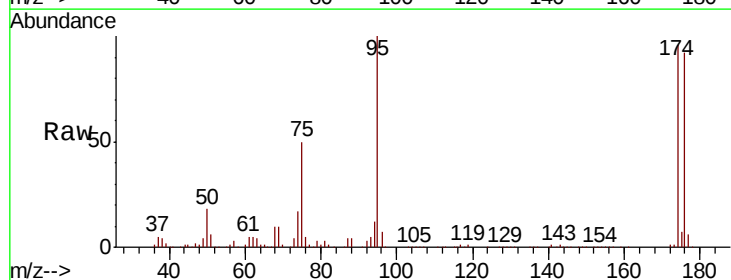
Tgt Ion: 95 Resp: 163728

Ion Ratio Lower Upper

95 100

174 93.2 0.0 185.0

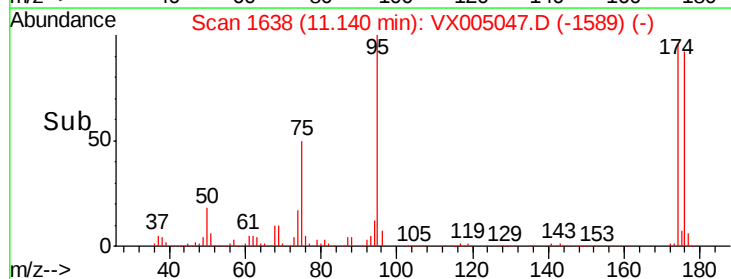
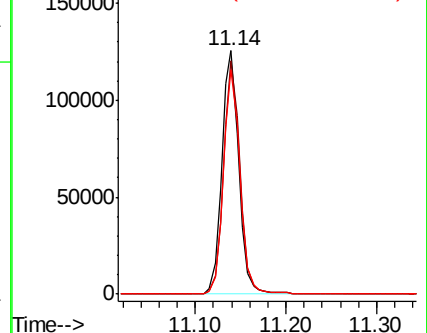
176 90.0 0.0 180.2

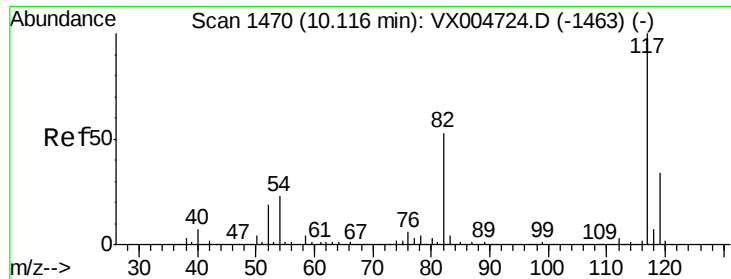


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

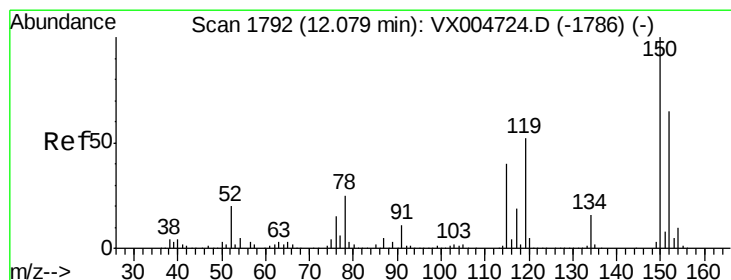
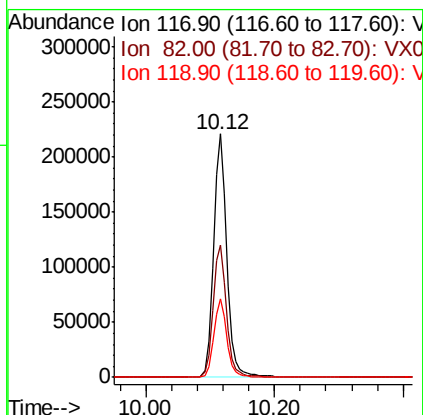
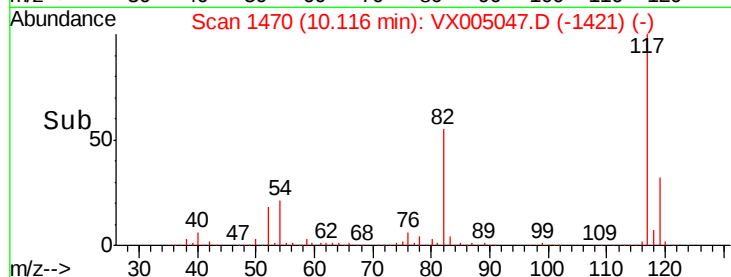
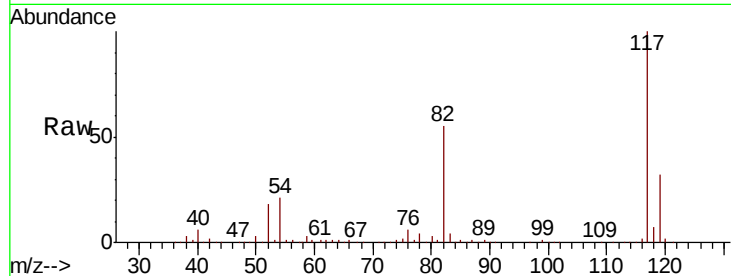




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX005047.D  
Acq: 05 Oct 2018 04:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-01-181002

Tot Ion:117 Resp: 319245  
Ion Ratio Lower Upper  
117 100  
82 54.5 42.2 63.4  
119 32.2 27.4 41.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX005047.D  
Acq: 05 Oct 2018 04:57

Tgt Ion:152 Resp: 168001  
Ion Ratio Lower Upper  
152 100  
115 55.8 40.2 120.6  
150 157.3 0.0 351.0

