

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX101018\  
 Data File : VX005238.D  
 Acq On : 11 Oct 2018 07:12  
 Operator : JC/MD  
 Sample : J5284-11DL 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE-103D2-20181003DL

Quant Time: Oct 11 08:33:50 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

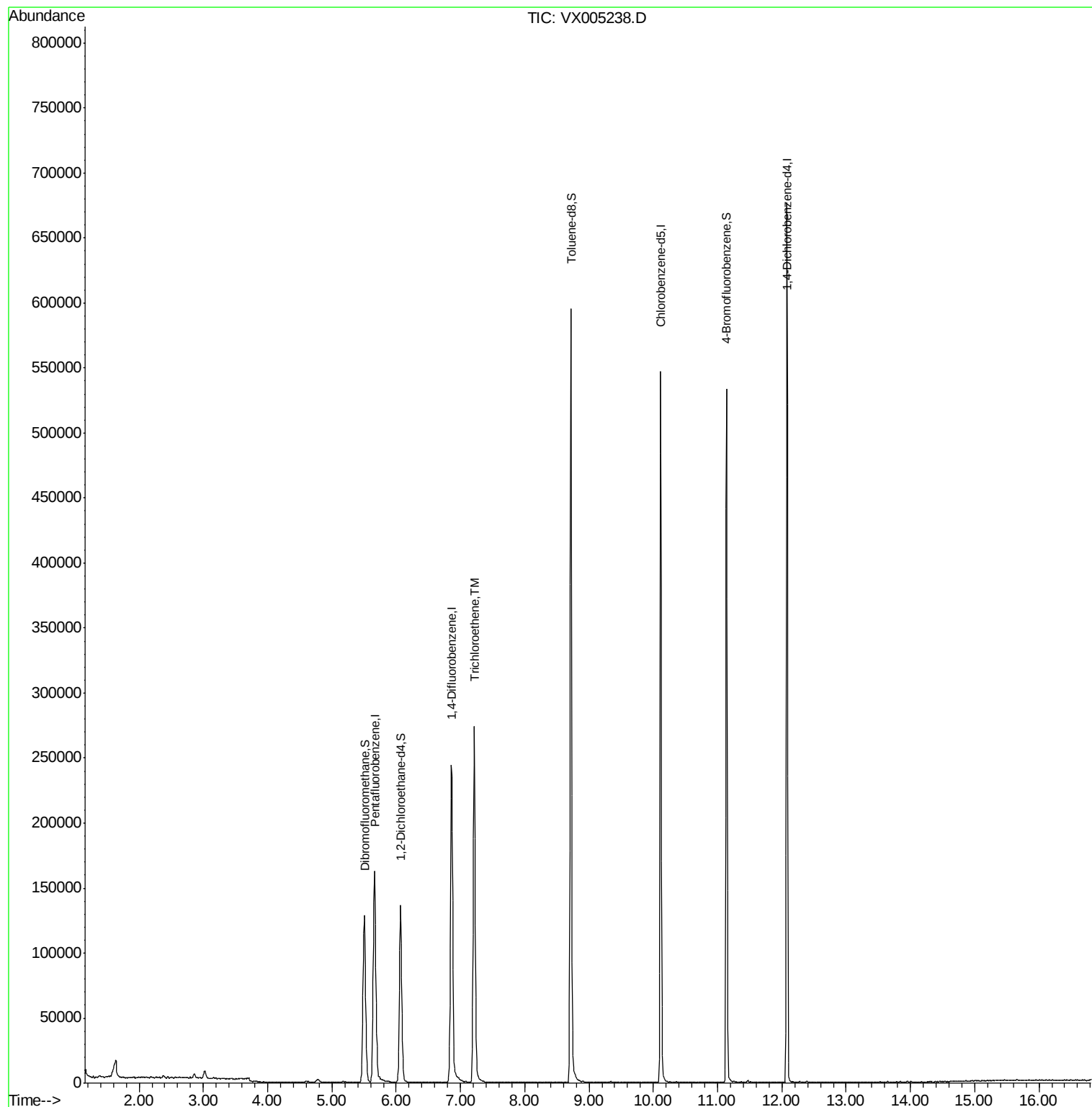
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)      |
|-----------------------------|-------|------|----------|-------|---------|---------------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 167937   | 50.00 | ug/l    | 0.00          |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 255017   | 50.00 | ug/l    | 0.00          |
| 63) Chlorobenzene-d5        | 10.12 | 117  | 254780   | 50.00 | ug/l    | 0.00          |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 138460   | 50.00 | ug/l    | 0.00          |
| System Monitoring Compounds |       |      |          |       |         |               |
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 127091   | 52.98 | ug/l    | 0.00          |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.96% |               |
| 35) Dibromofluoromethane    | 5.51  | 113  | 107433   | 49.71 | ug/l    | 0.00          |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.42%  |               |
| 50) Toluene-d8              | 8.72  | 98   | 372831   | 51.89 | ug/l    | 0.00          |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.78% |               |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 130930   | 50.58 | ug/l    | 0.00          |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.16% |               |
| Target Compounds            |       |      |          |       |         |               |
| 44) Trichloroethene         | 7.21  | 130  | 112390   | 49.52 | ug/l    | Qvalue<br>100 |

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

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RE-103D2-20181003DL

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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: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005238.D

Acq: 11 Oct 2018 07:12

Instrument :

MSVOA\_X

ClientSampleId :

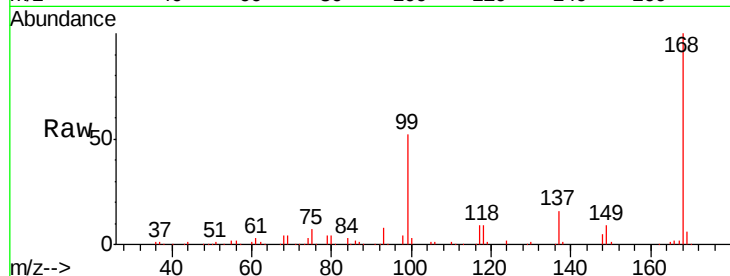
RE-103D2-20181003DL

Tgt Ion:168 Resp: 167937

Ion Ratio Lower Upper

168 100

99 52.3 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

60000

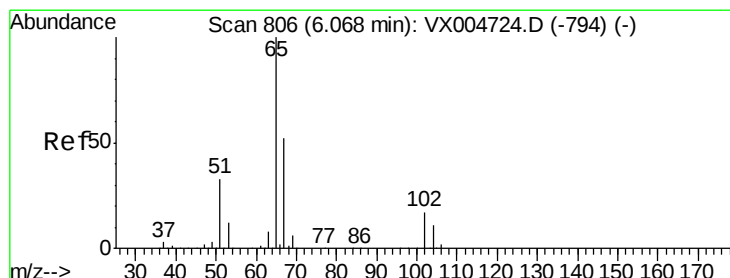
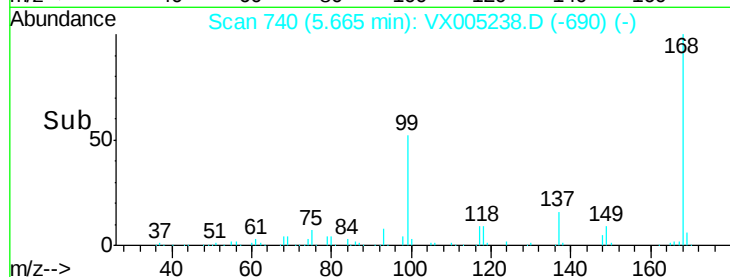
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#33

1,2-Dichloroethane-d4

Concen: 52.98 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005238.D

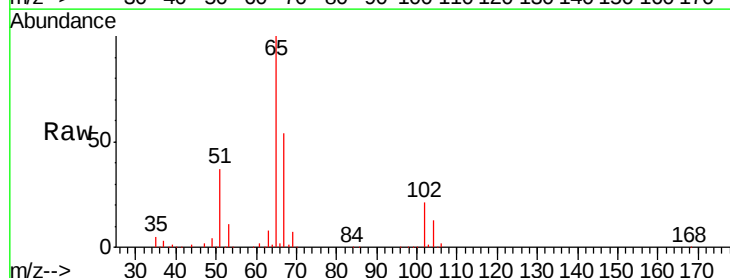
Acq: 11 Oct 2018 07:12

Tgt Ion: 65 Resp: 127091

Ion Ratio Lower Upper

65 100

67 53.3 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

50000

40000

30000

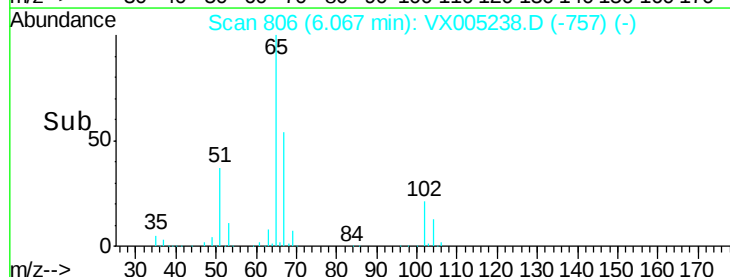
20000

10000

0

Time-->

6.00 6.10 6.20

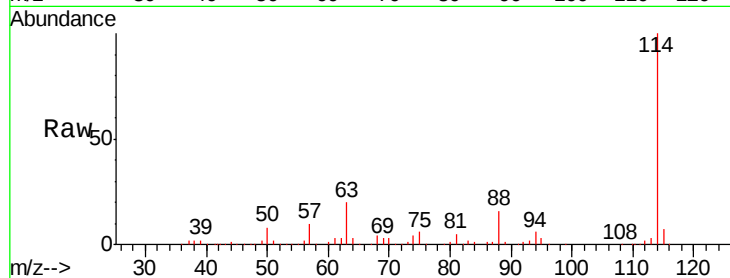




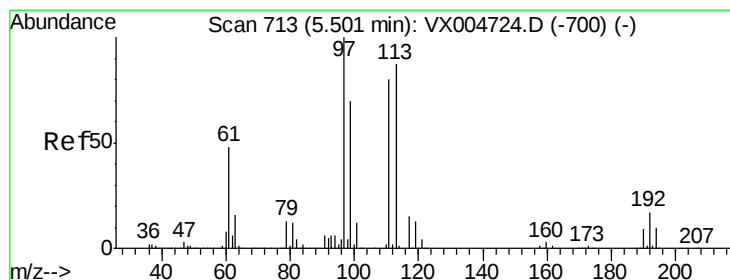
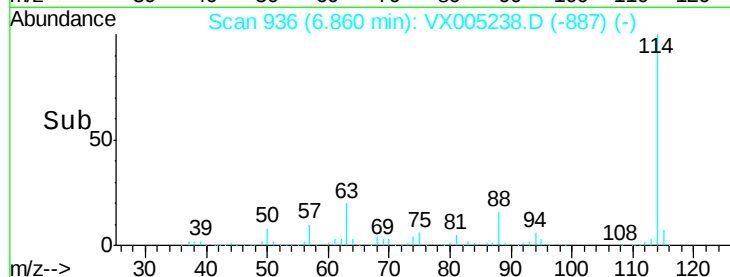
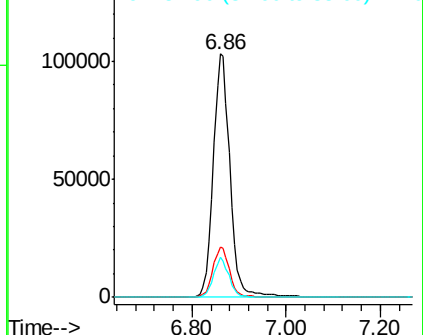
#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: VX005238.D  
Acq: 11 Oct 2018 07:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE-103D2-20181003DL

Tgt Ion:114 Resp: 255017  
Ion Ratio Lower Upper  
114 100  
63 20.5 0.0 39.8  
88 16.3 0.0 27.0

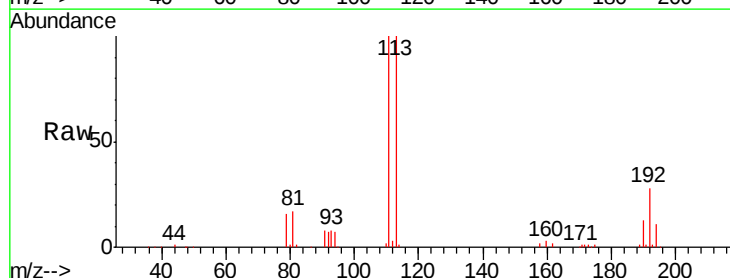


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX0  
Ion 87.90 (87.60 to 88.60): VX0

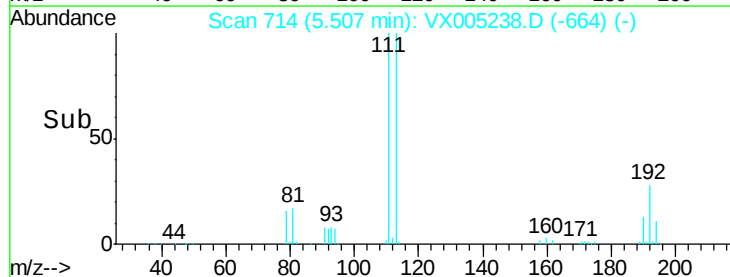
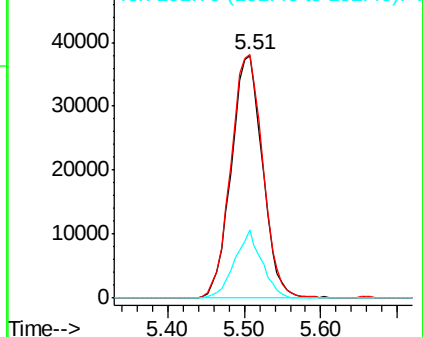


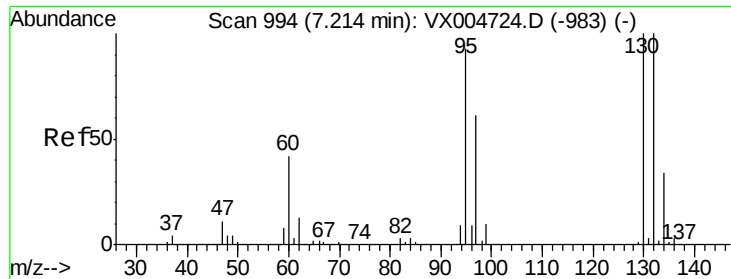
#35  
Dibromofluoromethane  
Concen: 49.71 ug/l  
RT: 5.51 min Scan# 714  
Delta R.T. 0.01 min  
Lab File: VX005238.D  
Acq: 11 Oct 2018 07:12

Tgt Ion:113 Resp: 107433  
Ion Ratio Lower Upper  
113 100  
111 102.7 77.0 115.4  
192 24.6 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

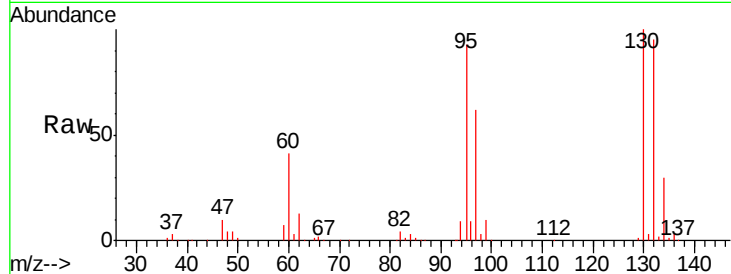




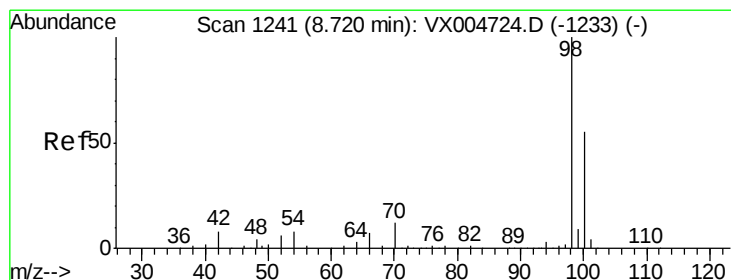
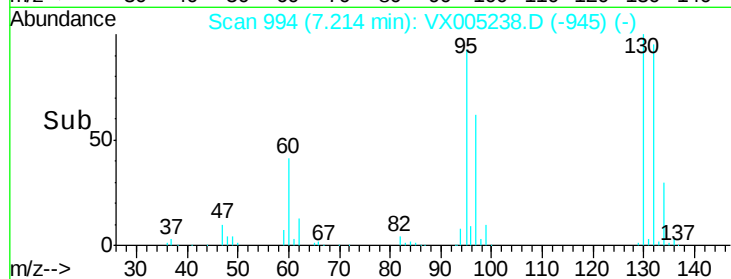
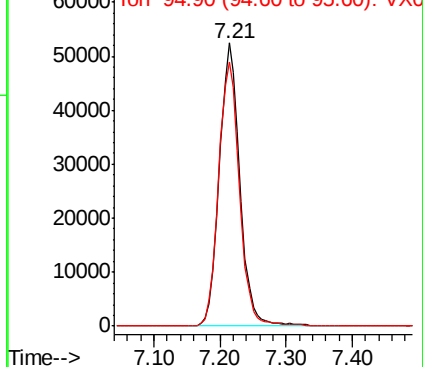
#44  
 Trichloroethene  
 Concen: 49.52 ug/l  
 RT: 7.21 min Scan# 994  
 Delta R.T. -0.00 min  
 Lab File: VX005238.D  
 Acq: 11 Oct 2018 07:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE-103D2-20181003DL

Tgt Ion:130 Resp: 112390  
 Ion Ratio Lower Upper  
 130 100  
 95 93.2 0.0 186.8

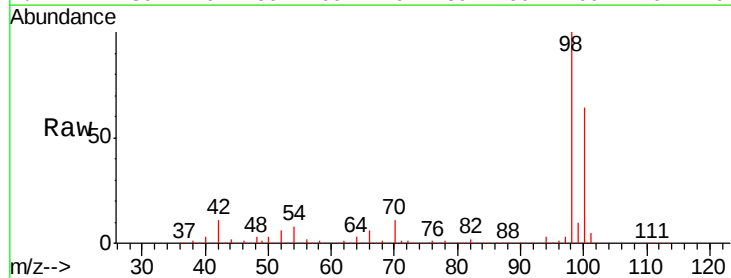


Abundance Ion 129.80 (129.50 to 130.50): V

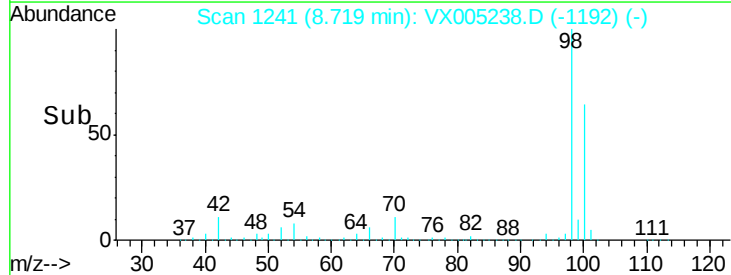
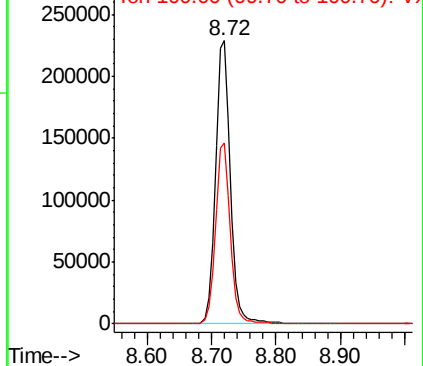


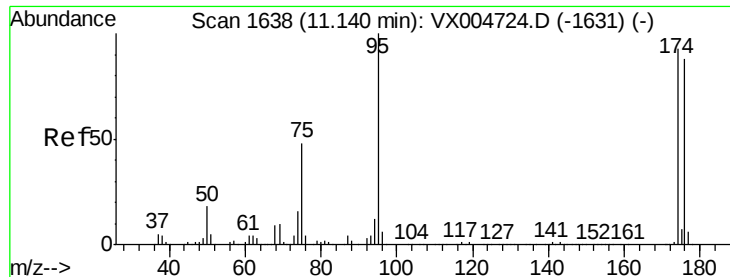
#50  
 Toluene-d8  
 Concen: 51.89 ug/l  
 RT: 8.72 min Scan# 1241  
 Delta R.T. -0.00 min  
 Lab File: VX005238.D  
 Acq: 11 Oct 2018 07:12

Tgt Ion: 98 Resp: 372831  
 Ion Ratio Lower Upper  
 98 100  
 100 63.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0





#62

4-Bromofluorobenzene

Concen: 50.58 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005238.D

Acq: 11 Oct 2018 07:12

Instrument :

MSVOA\_X

ClientSampleId :

RE-103D2-20181003DL

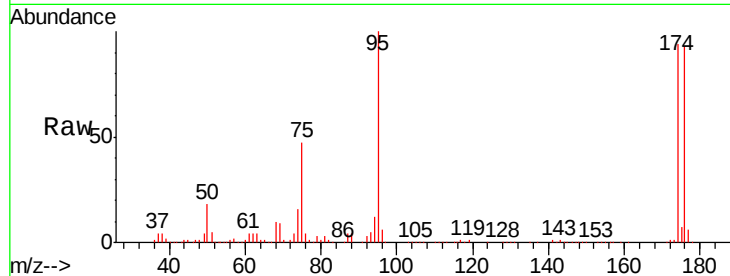
Tgt Ion: 95 Resp: 130930

Ion Ratio Lower Upper

95 100

174 93.2 0.0 185.0

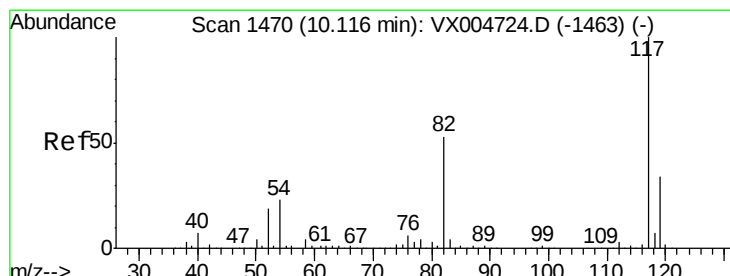
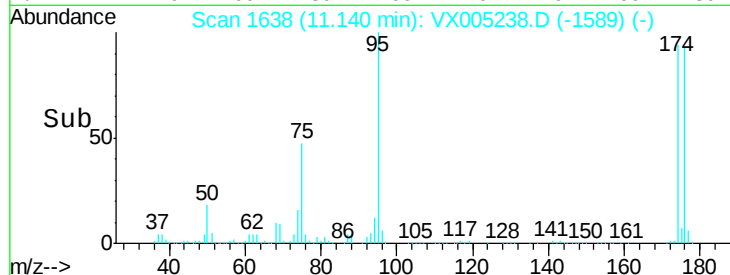
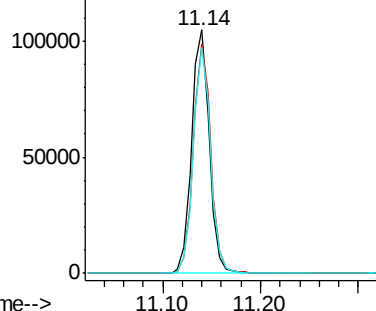
176 90.5 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VX005238.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005238.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005238.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005238.D

Acq: 11 Oct 2018 07:12

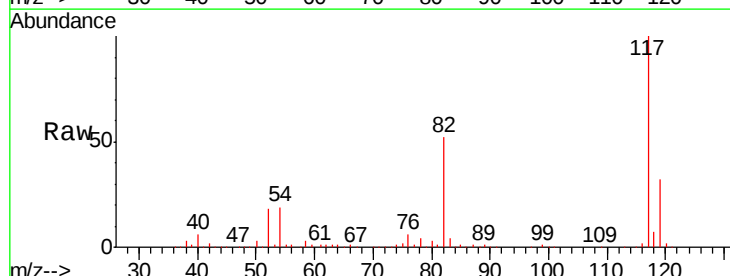
Tgt Ion: 117 Resp: 254780

Ion Ratio Lower Upper

117 100

82 52.5 42.2 63.4

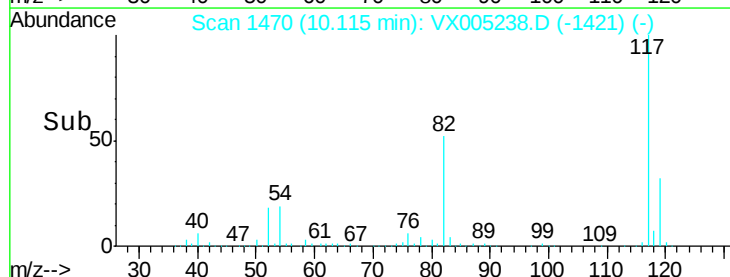
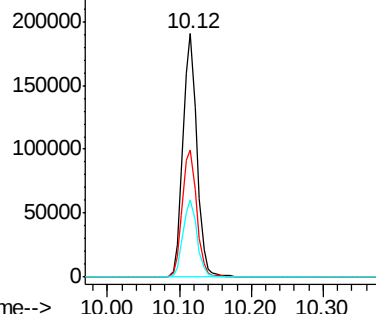
119 31.5 27.4 41.0

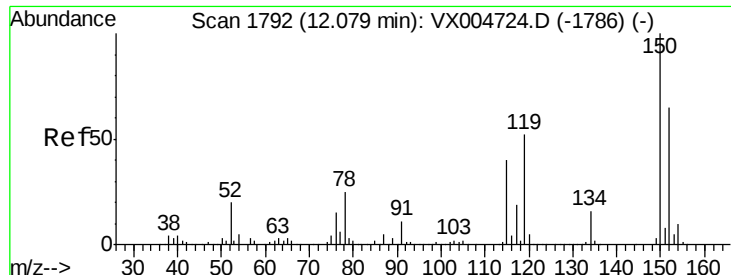


Abundance Ion 116.90 (116.60 to 117.60): VX005238.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005238.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005238.D (-1421) (-)





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. -0.00 min  
 Lab File: VX005238.D  
 Acq: 11 Oct 2018 07:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE-103D2-20181003DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.3  | 40.2  | 120.6 |
| 150     | 156.0 | 0.0   | 351.0 |

