

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX101218\  
 Data File : VX005297.D  
 Acq On : 12 Oct 2018 16:58  
 Operator : JC/MD  
 Sample : J5164-09 2.5ppb  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-WATER-03-QT4-2018

Quant Time: Oct 15 03:30:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 2018  
 Response via : Initial Calibration

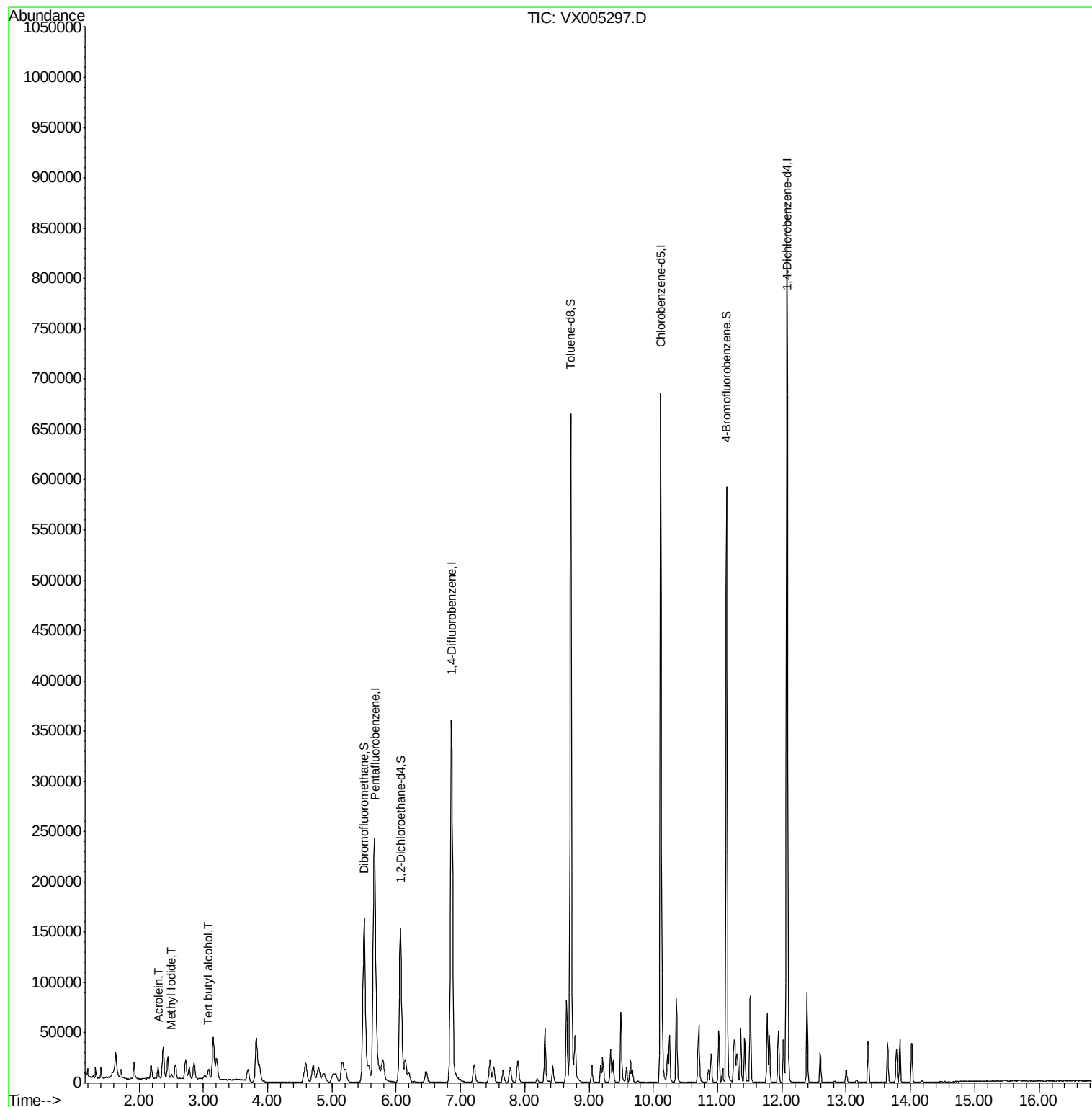
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 258025   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 375802   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.12 | 117  | 329201   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 178377   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 145583   | 50.84 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.68% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 117948   | 47.39 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.78%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 418626   | 48.99 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.98%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 147834   | 46.05 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.10%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 10) Methyl Iodide           | 2.50  | 142  | 4594     | 4.23  | ug/l    | 98       |
| 11) Tert butyl alcohol      | 3.08  | 59   | 11944    | 14.79 | ug/l    | 98       |
| 13) Acrolein                | 2.29  | 56   | 8268     | 14.00 | ug/l    | 91       |

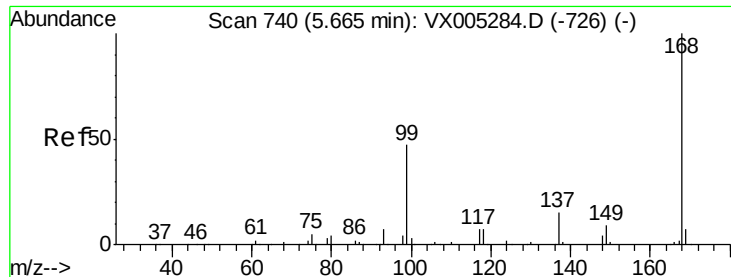
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Oct 12 11:28:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA\_X

ClientSampleId :

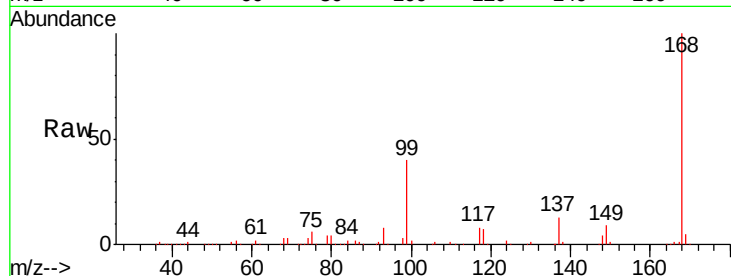
MDL-WATER-03-QT4-2018

Tgt Ion:168 Resp: 258025

Ion Ratio Lower Upper

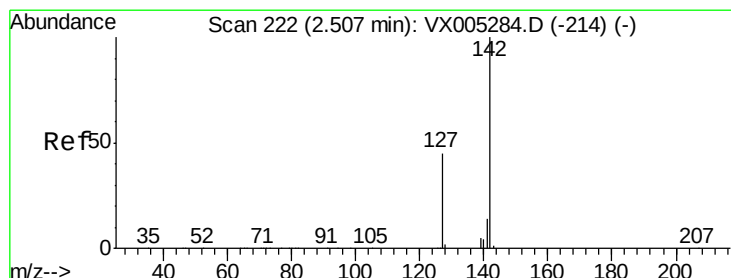
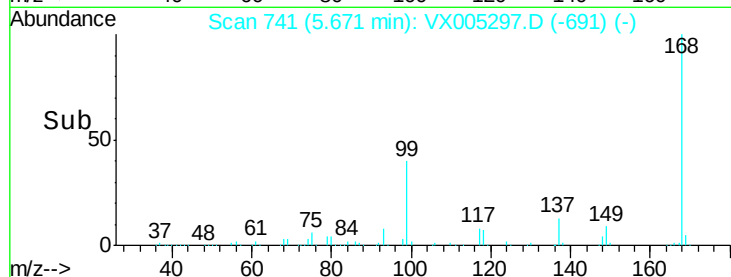
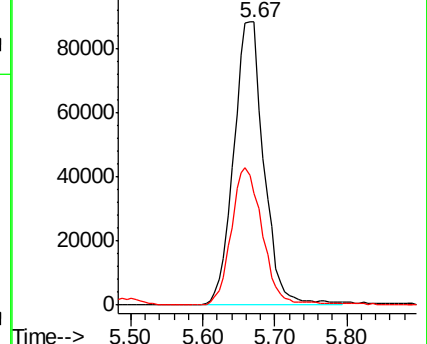
168 100

99 39.7 39.9 59.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#10

Methyl Iodide

Concen: 4.23 ug/l

RT: 2.50 min Scan# 221

Delta R.T. -0.01 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

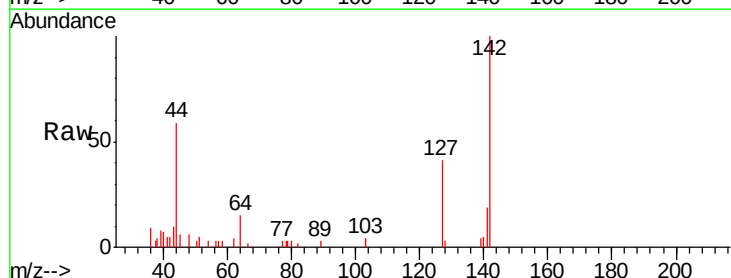
Tgt Ion:142 Resp: 4594

Ion Ratio Lower Upper

142 100

127 41.1 33.8 50.6

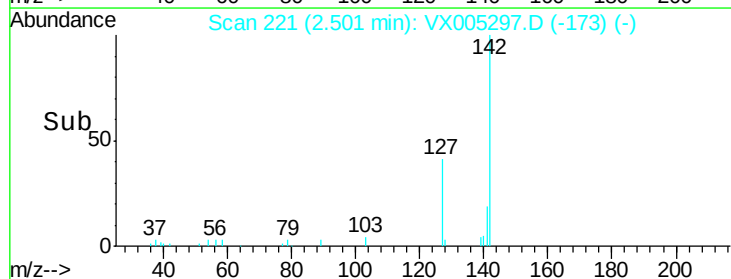
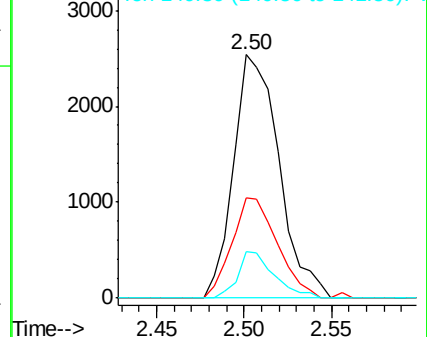
141 15.3 11.4 17.0

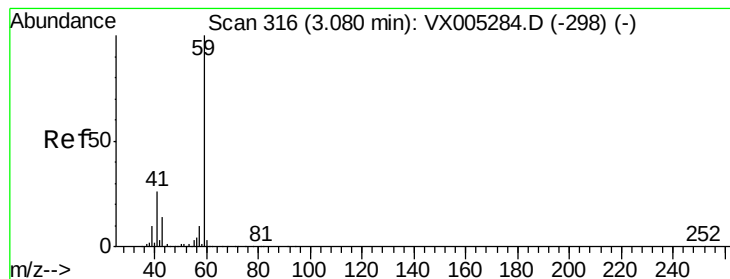


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 14.79 ug/l

RT: 3.08 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA\_X

ClientSampleId :

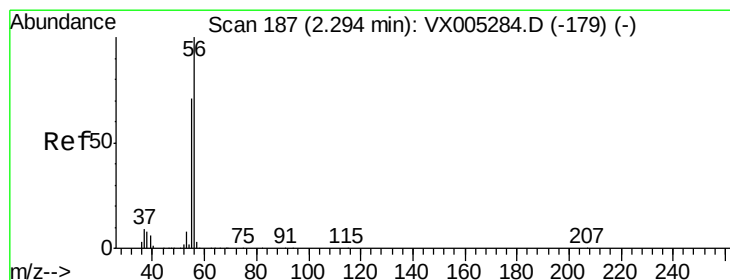
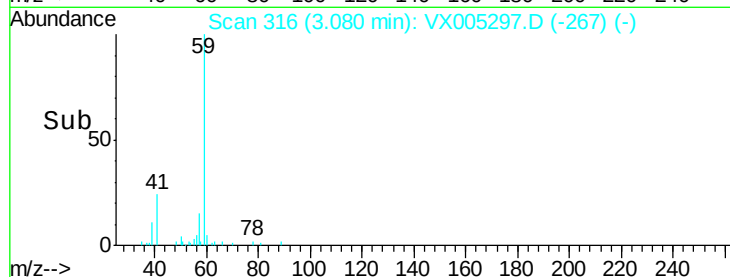
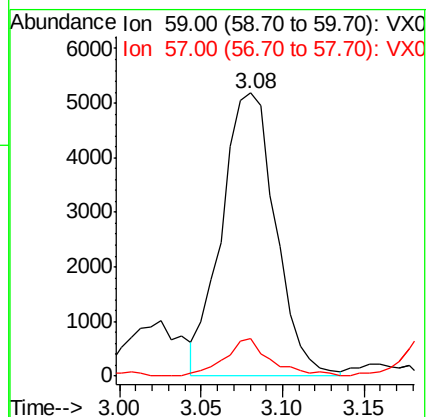
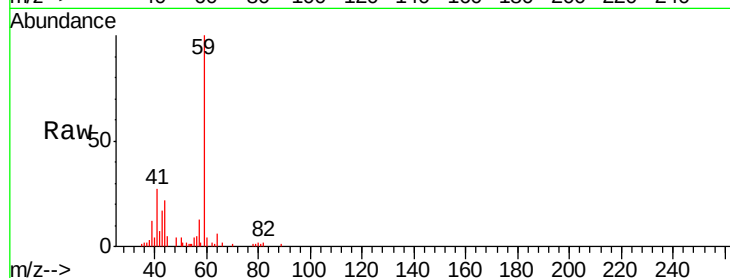
MDL-WATER-03-QT4-2018

Tgt Ion: 59 Resp: 11944

Ion Ratio Lower Upper

59 100

57 11.2 8.2 12.4



#13

Acrolein

Concen: 14.00 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005297.D

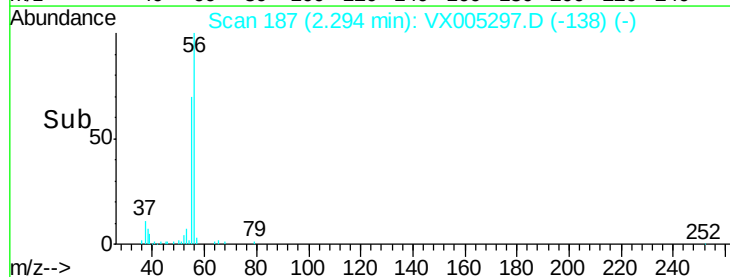
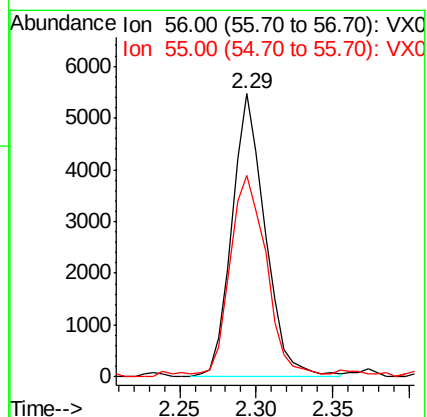
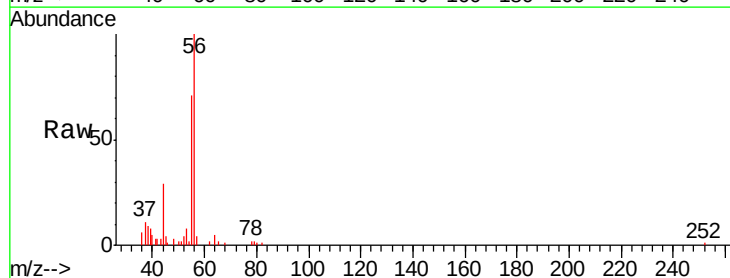
Acq: 12 Oct 2018 16:58

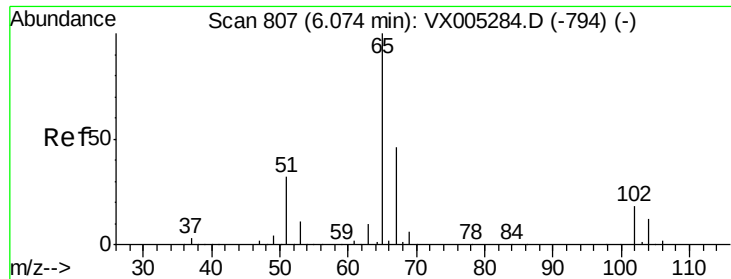
Tgt Ion: 56 Resp: 8268

Ion Ratio Lower Upper

56 100

55 76.0 54.7 82.1

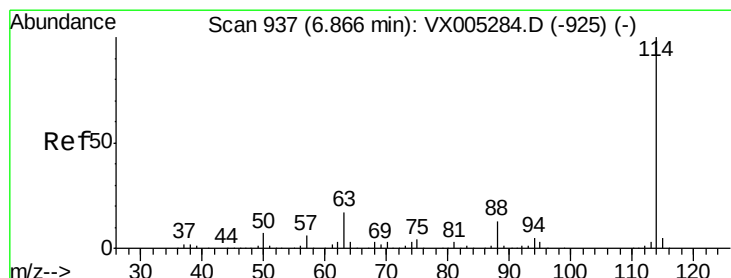
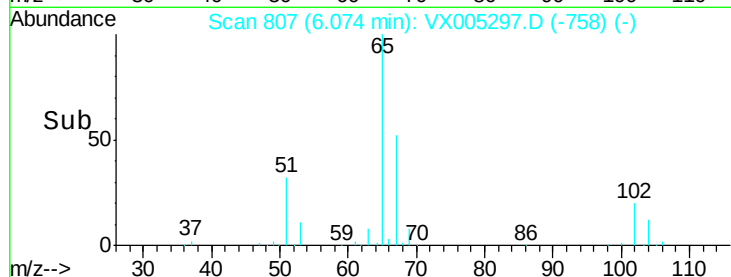
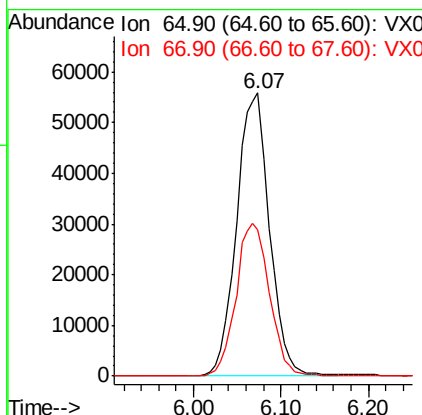
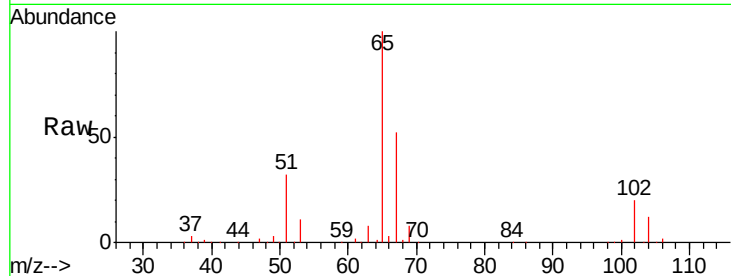




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.84 ug/l  
 RT: 6.07 min Scan# 807  
 Delta R.T. -0.00 min  
 Lab File: VX005297.D  
 Acq: 12 Oct 2018 16:58

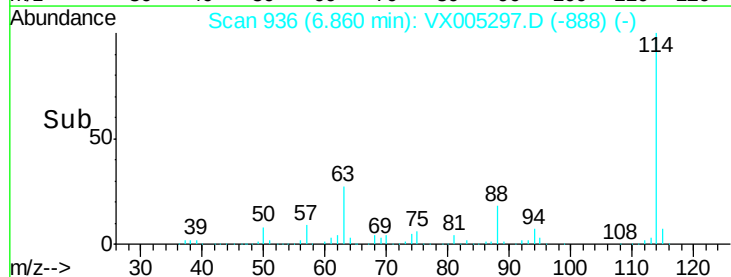
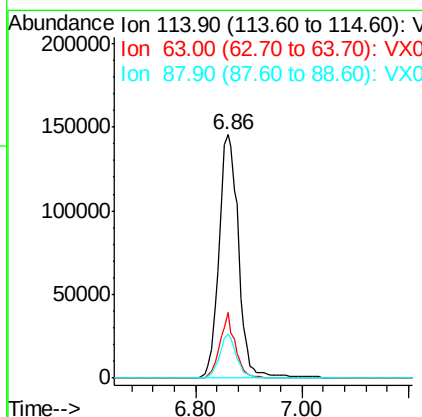
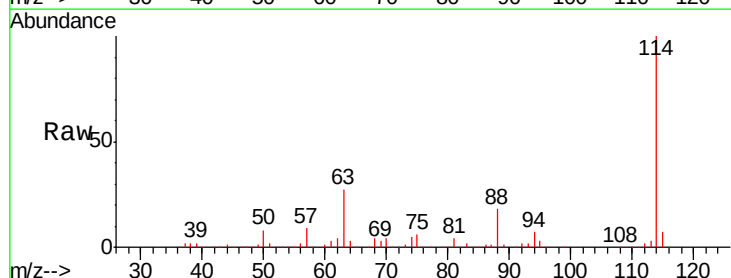
Instrument :  
 MSVOA\_X  
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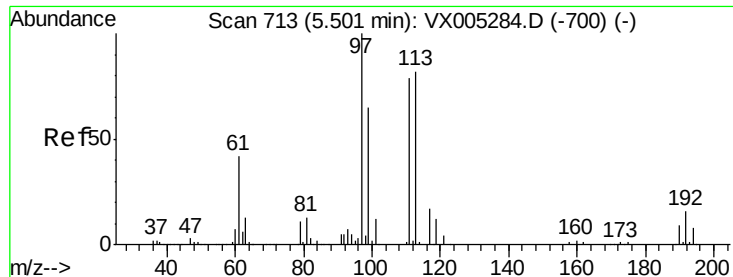
Tgt Ion: 65 Resp: 145583  
 Ion Ratio Lower Upper  
 65 100  
 67 55.2 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.01 min  
 Lab File: VX005297.D  
 Acq: 12 Oct 2018 16:58

Tgt Ion: 114 Resp: 375802  
 Ion Ratio Lower Upper  
 114 100  
 63 26.7 0.0 39.0  
 88 18.0 0.0 30.4

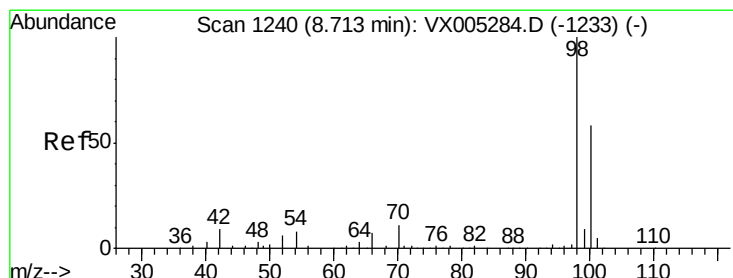
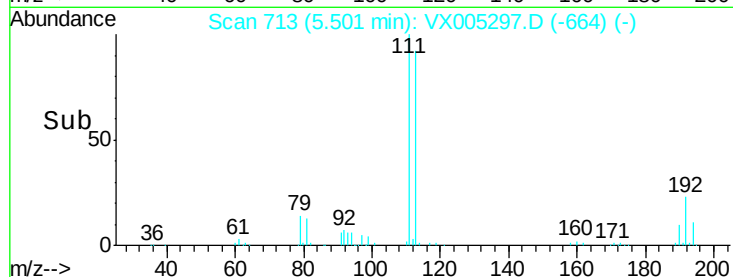
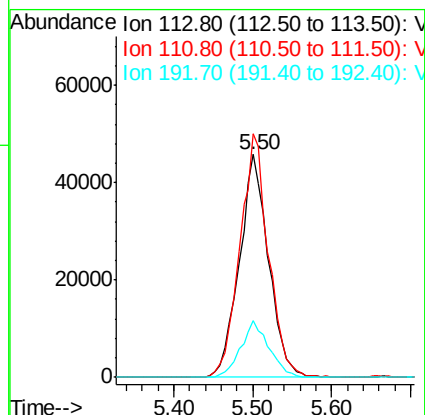
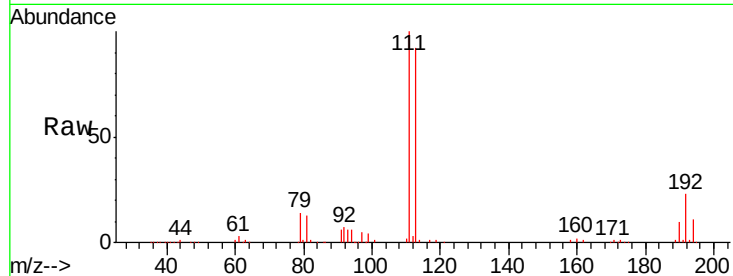




#35  
 Dibromofluoromethane  
 Concen: 47.39 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX005297.D  
 Acq: 12 Oct 2018 16:58

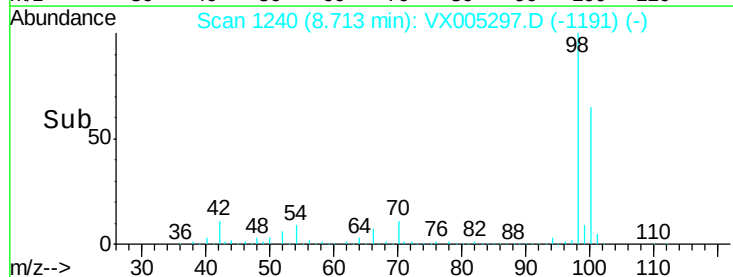
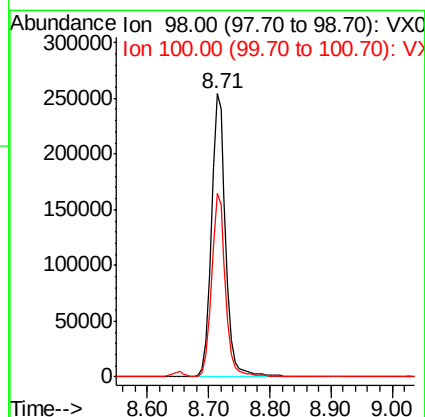
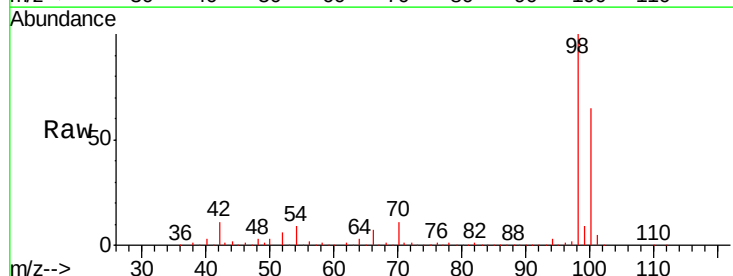
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-WATER-03-QT4-2018

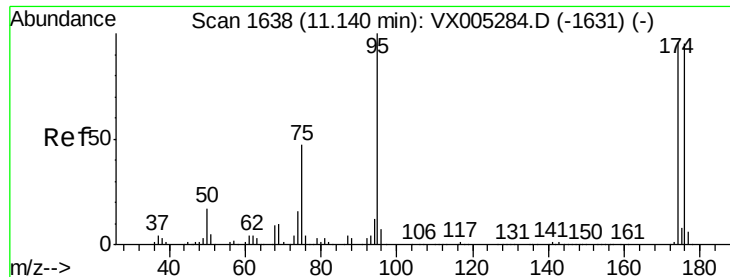
Tgt Ion:113 Resp: 117948  
 Ion Ratio Lower Upper  
 113 100  
 111 106.3 82.4 123.6  
 192 24.7 19.4 29.2



#50  
 Toluene-d8  
 Concen: 48.99 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. -0.00 min  
 Lab File: VX005297.D  
 Acq: 12 Oct 2018 16:58

Tgt Ion: 98 Resp: 418626  
 Ion Ratio Lower Upper  
 98 100  
 100 64.0 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 46.05 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-03-QT4-2018

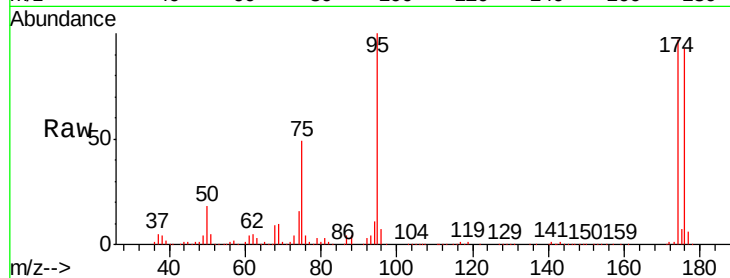
Tgt Ion: 95 Resp: 147834

Ion Ratio Lower Upper

95 100

174 95.2 0.0 185.2

176 90.9 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005284.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005284.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005284.D (-1631) (-)

11.14

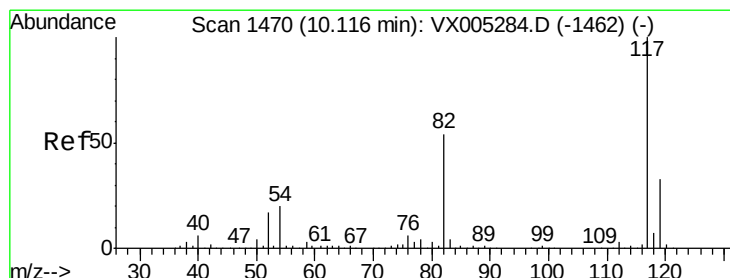
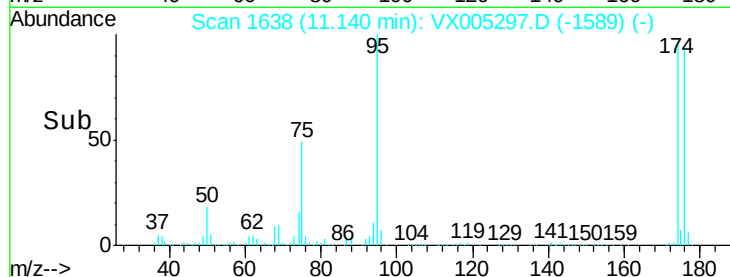
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

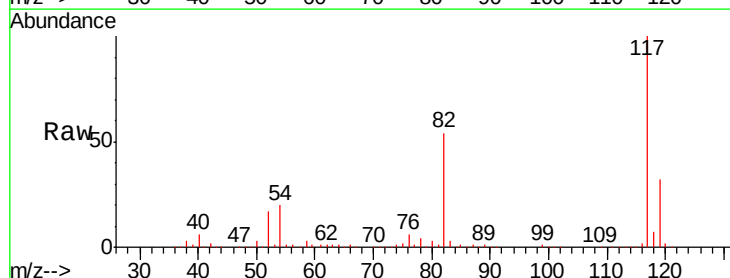
Tgt Ion: 117 Resp: 329201

Ion Ratio Lower Upper

117 100

82 53.9 47.8 71.6

119 32.1 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): VX005284.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005284.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005284.D (-1462) (-)

10.12

300000

250000

200000

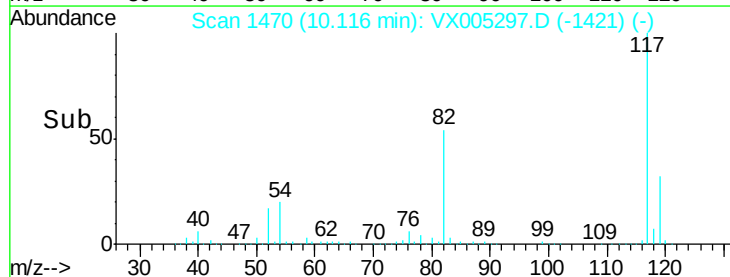
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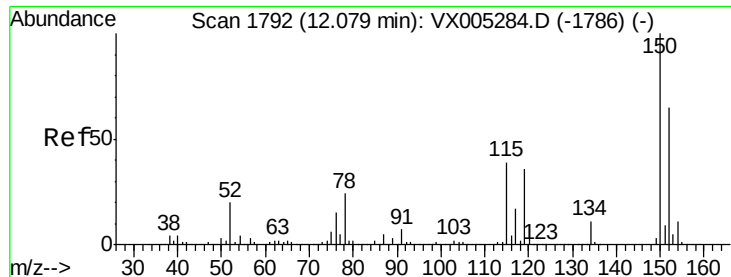
100000

50000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005297.D

Acq: 12 Oct 2018 16:58

Instrument :

MSVOA\_X

ClientSampleId :

MDL-WATER-03-QT4-2018

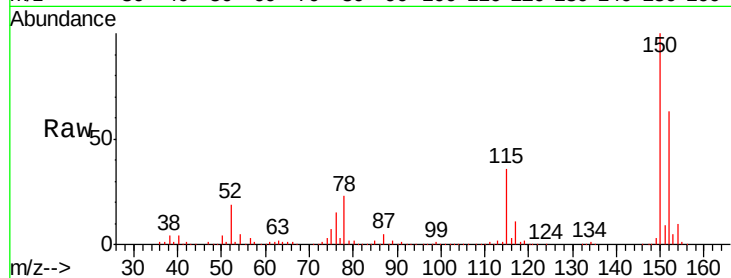
Tgt Ion:152 Resp: 178377

Ion Ratio Lower Upper

152 100

115 55.8 39.0 117.0

150 158.2 0.0 351.0



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

