

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\  
 Data File : VX002988.D  
 Acq On : 28 Jun 2018 16:34  
 Operator : JC/MD  
 Sample : J3711-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 QNWP8-EQUIP-BLANK

Quant Time: Jun 29 09:53:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 269808   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 374648   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 349764   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 194852   | 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   | 180538   | 48.41 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.82% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 145395   | 49.01 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.02% |          |
| 50) Toluene-d8              | 8.72  | 98   | 527446   | 48.68 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.36% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 184889   | 44.25 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 88.50% |          |

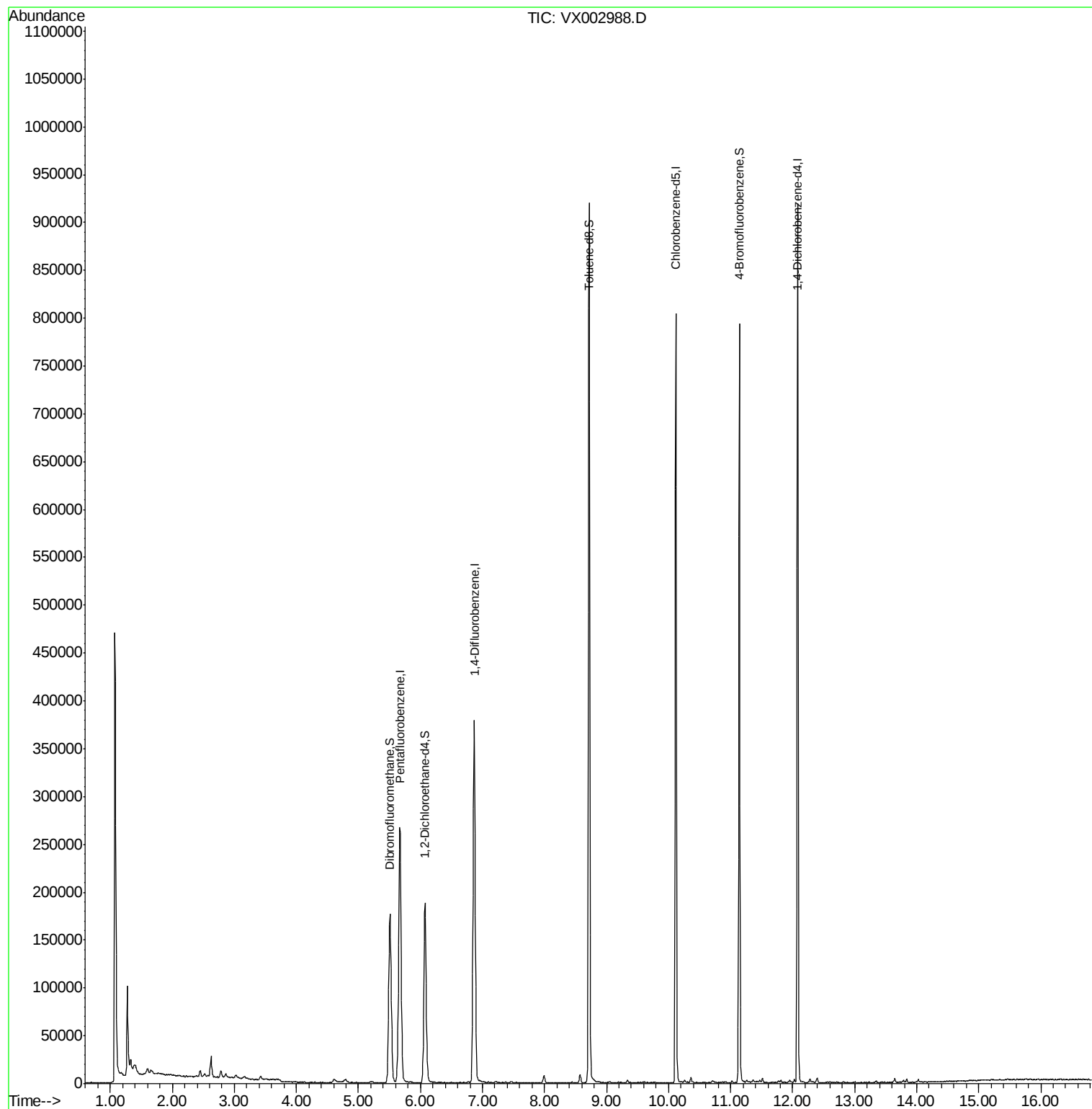
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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QNWP8-EQUIP-BLANK

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 25 14:38:05 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA\_X

ClientSampleId :

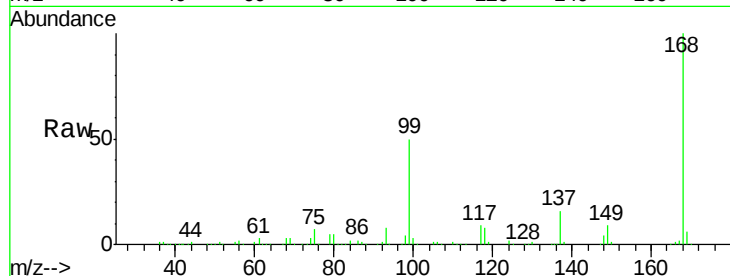
QNWP8-EQUIP-BLANK

Tot Ion:168 Resp: 269808

Ion Ratio Lower Upper

168 100

99 49.9 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

100000

80000

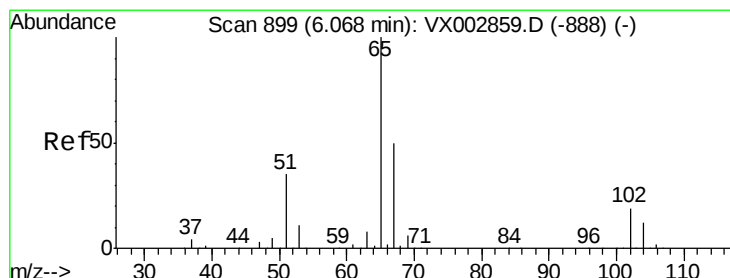
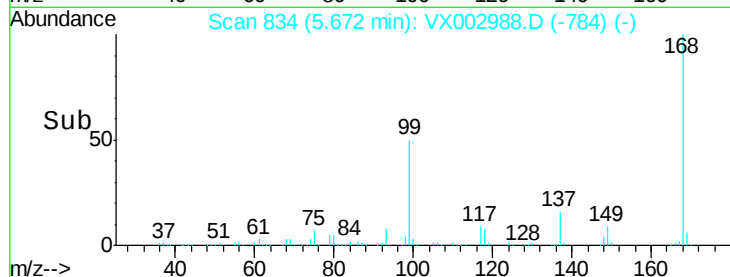
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 48.41 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002988.D

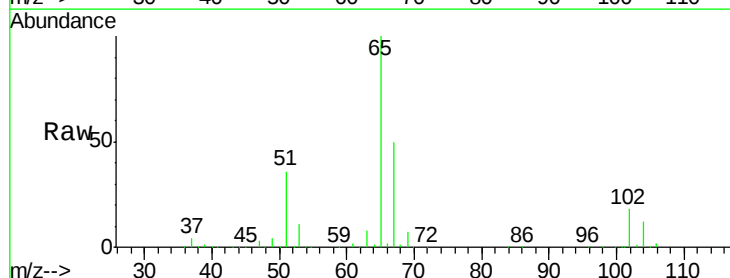
Acq: 28 Jun 2018 16:34

Tgt Ion: 65 Resp: 180538

Ion Ratio Lower Upper

65 100

67 50.6 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

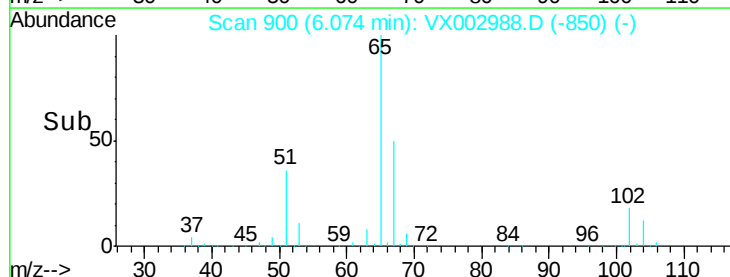
60000

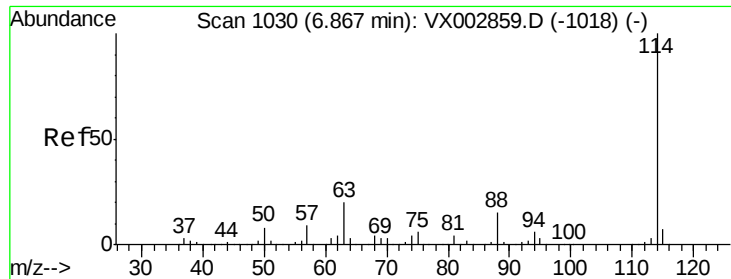
40000

20000

0

Time--> 6.00 6.10 6.20

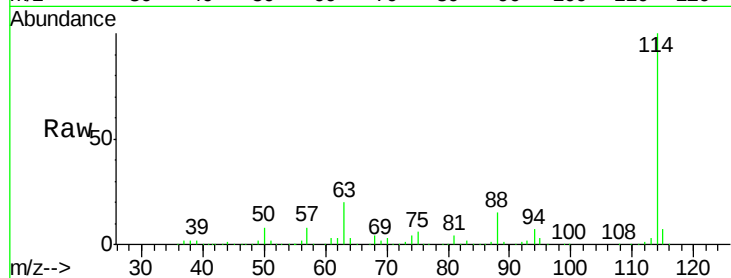




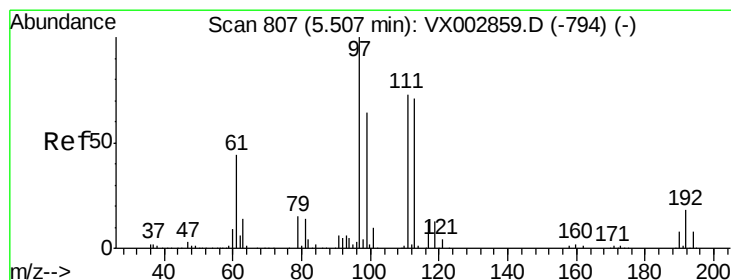
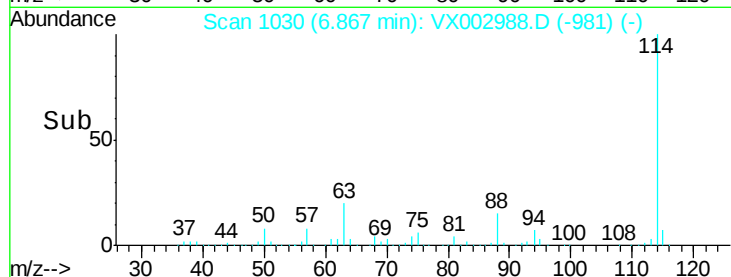
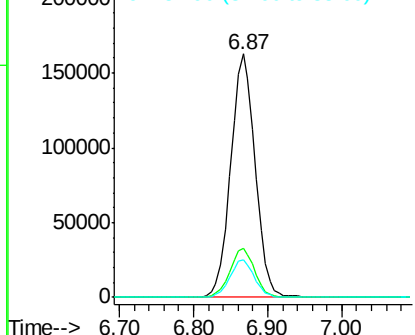
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX002988.D  
 Acq: 28 Jun 2018 16:34

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 QNWP8-EQUIP-BLANK

Tot Ion:114 Resp: 374648  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 41.4  
 88 15.2 0.0 30.0

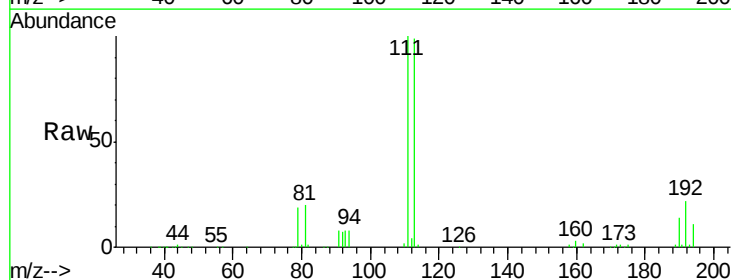


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

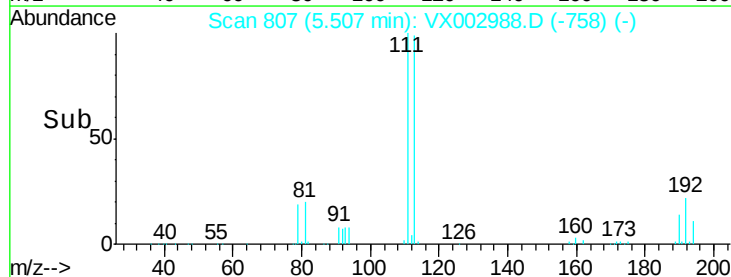
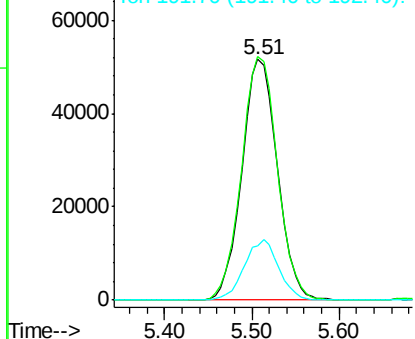


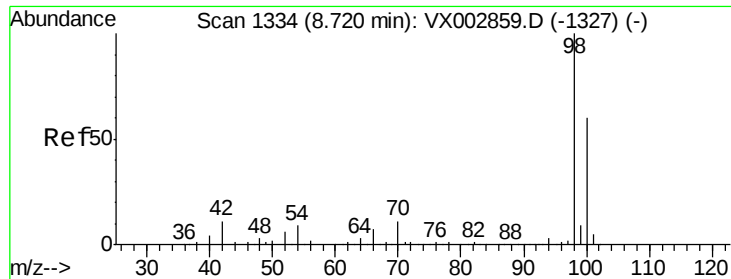
#35  
 Dibromofluoromethane  
 Concen: 49.01 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX002988.D  
 Acq: 28 Jun 2018 16:34

Tgt Ion:113 Resp: 145395  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.4 122.0  
 192 24.3 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: 48.68 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA\_X

ClientSampleId :

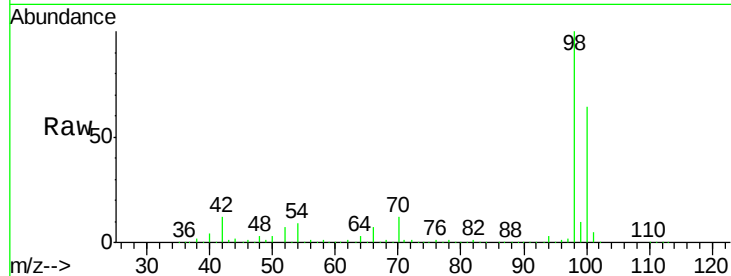
QNWP8-EQUIP-BLANK

Tot Ion: 98 Resp: 527446

Ion Ratio Lower Upper

98 100

100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

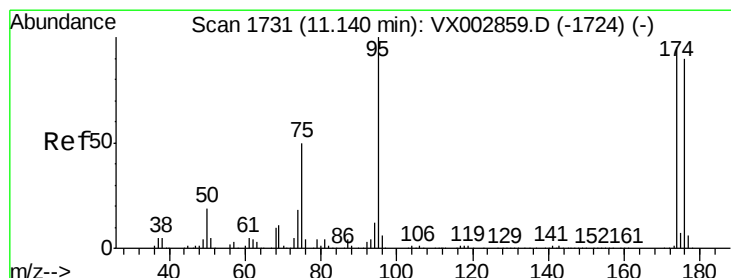
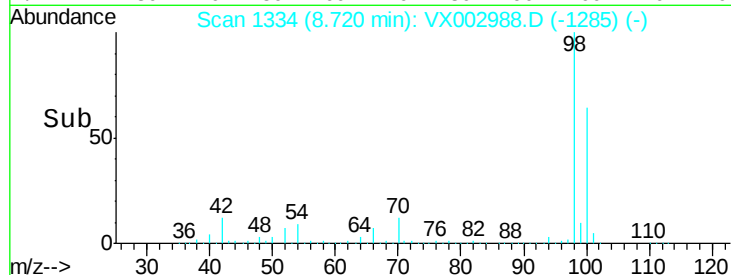
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

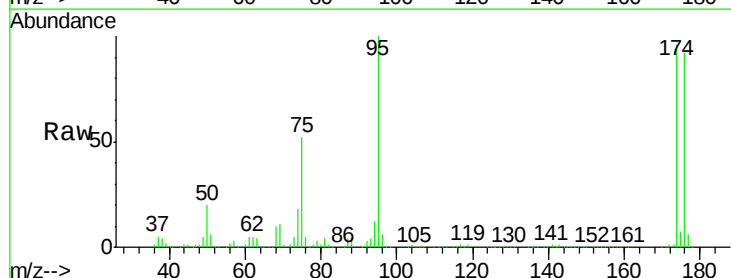
Tgt Ion: 95 Resp: 184889

Ion Ratio Lower Upper

95 100

174 97.3 0.0 187.4

176 93.5 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

200000

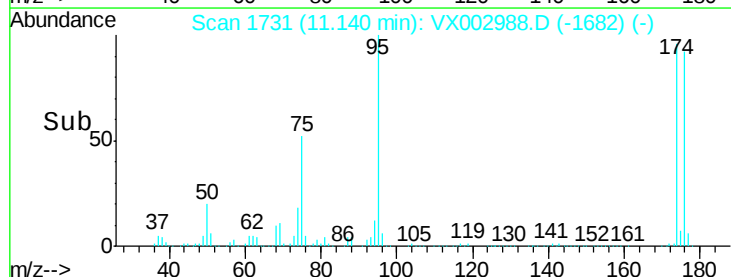
150000

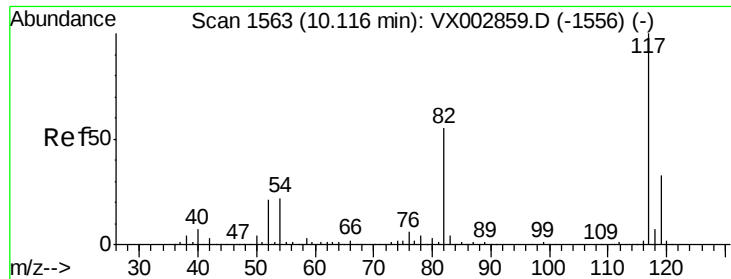
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

Instrument :

MSVOA\_X

ClientSampleId :

QNWP8-EQUIP-BLANK

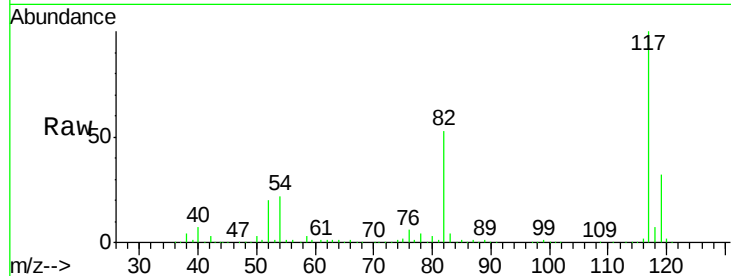
Tot Ion:117 Resp: 349764

Ion Ratio Lower Upper

117 100

82 53.1 45.0 67.4

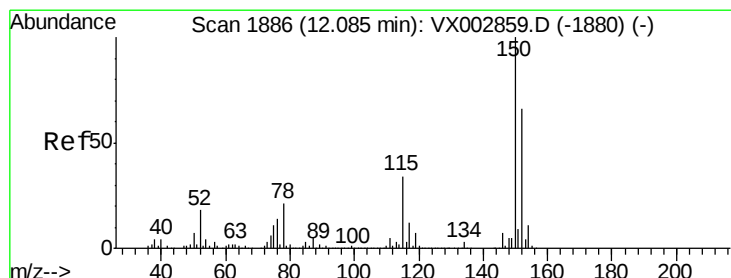
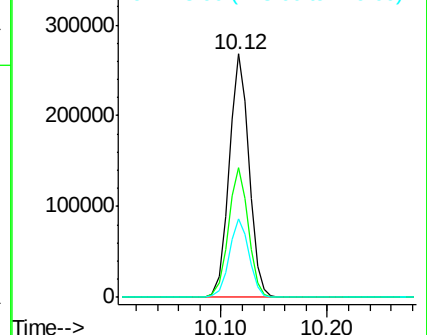
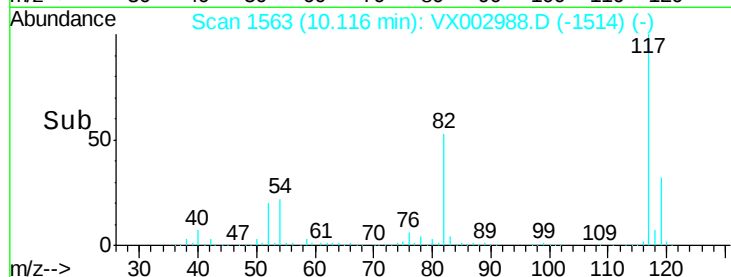
119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002988.D

Acq: 28 Jun 2018 16:34

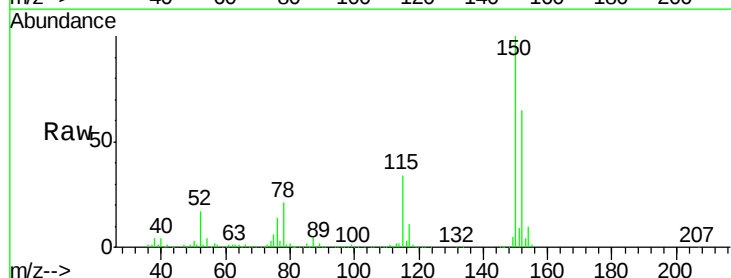
Tgt Ion:152 Resp: 194852

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

150 156.2 0.0 347.2



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

