

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073118\  
 Data File : VX003754.D  
 Acq On : 31 Jul 2018 16:59  
 Operator : JC/SP  
 Sample : J4121-05  
 Misc : 13.40G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW-03(3-5)

Quant Time: Aug 01 03:11:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 11:17:41 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 3362     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 4071     | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 2959     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 782      | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 1157     | 34.03 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 68.06% |      |
| 35) Dibromofluoromethane    | 5.50   | 113 | 1084     | 45.22 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.44% |      |
| 50) Toluene-d8              | 8.72   | 98  | 4084     | 40.86 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 81.72% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 1092     | 29.63 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 59.26% |      |

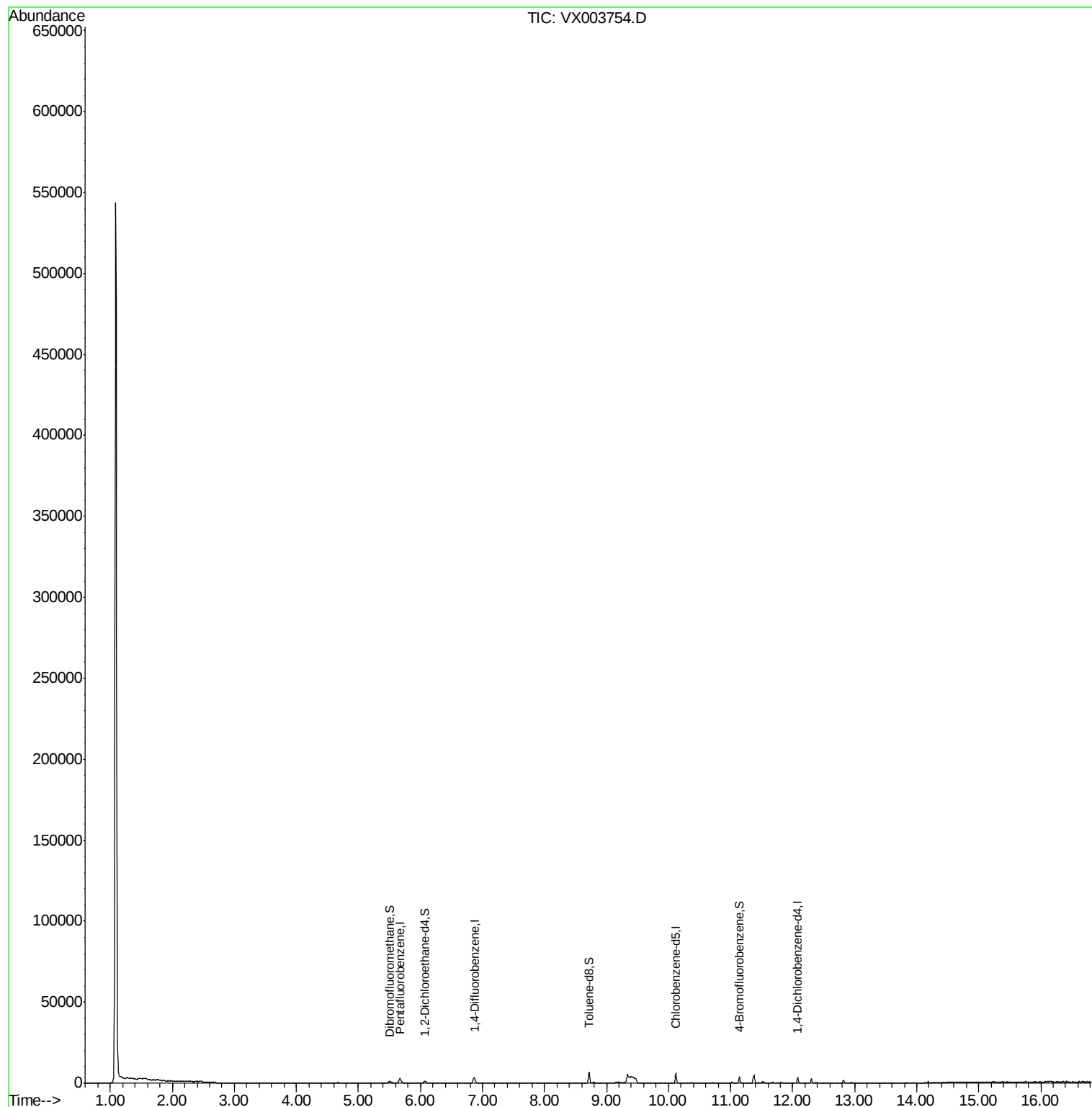
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

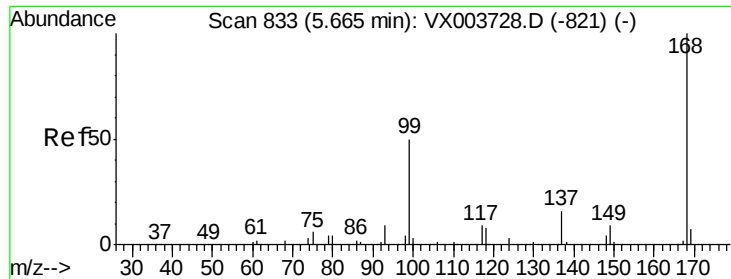
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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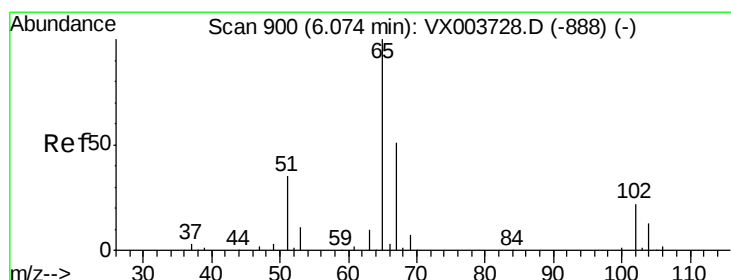
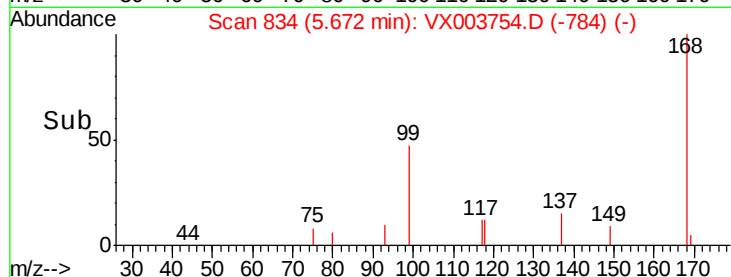
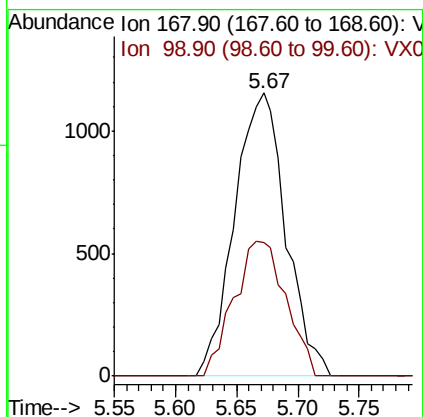
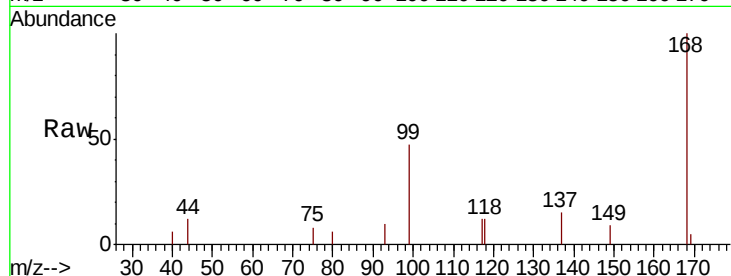




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. 0.01 min  
Lab File: VX003754.D  
Acq: 31 Jul 2018 16:59

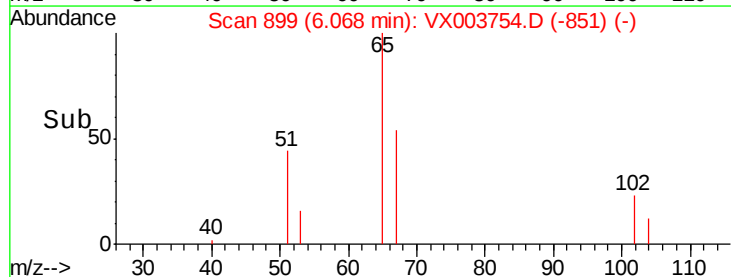
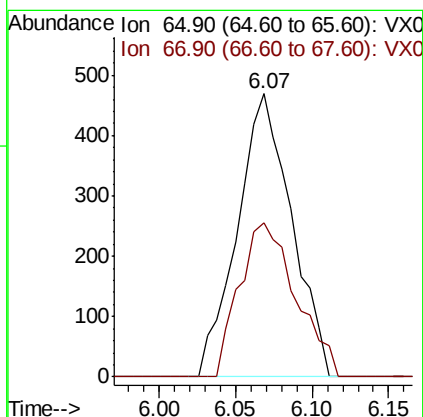
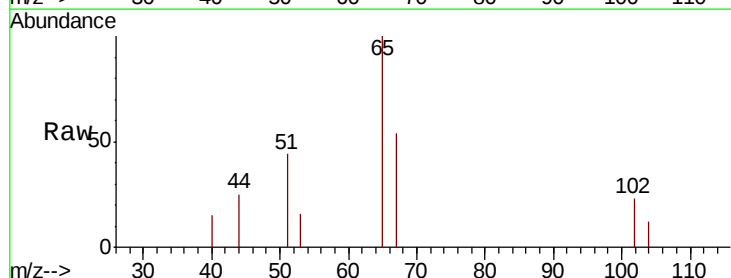
Instrument :  
MSVOA\_X  
ClientSampled :  
GW-03(3-5)

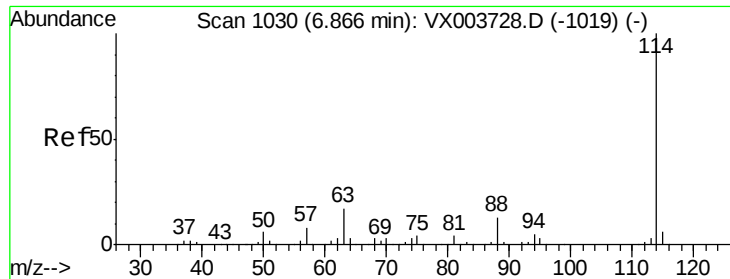
Tot Ion:168 Resp: 3362  
Ion Ratio Lower Upper  
168 100  
99 47.2 40.2 60.2



#33  
1,2-Dichloroethane-d4  
Concen: 34.03 ug/l  
RT: 6.07 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: VX003754.D  
Acq: 31 Jul 2018 16:59

Tgt Ion: 65 Resp: 1157  
Ion Ratio Lower Upper  
65 100  
67 56.6 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003754.D

Acq: 31 Jul 2018 16:59

Instrument :

MSVOA\_X

ClientSampleId :

GW-03(3-5)

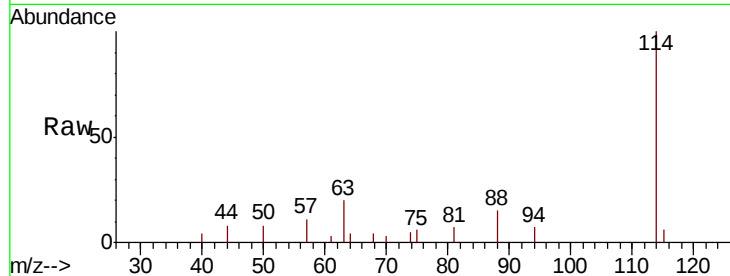
Tot Ion:114 Resp: 4071

Ion Ratio Lower Upper

114 100

63 20.0 0.0 34.0

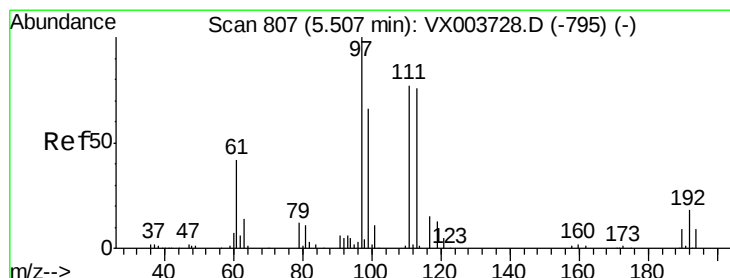
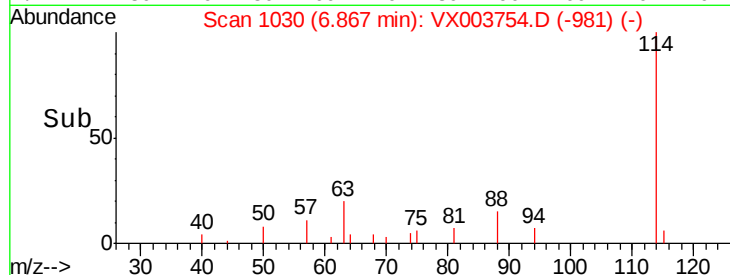
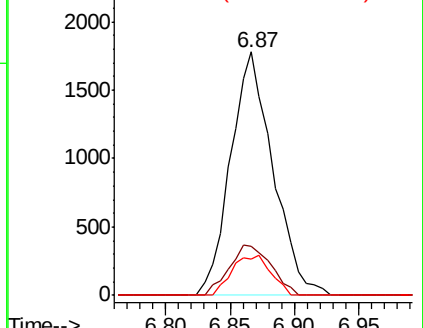
88 14.8 0.0 26.4



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: 45.22 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003754.D

Acq: 31 Jul 2018 16:59

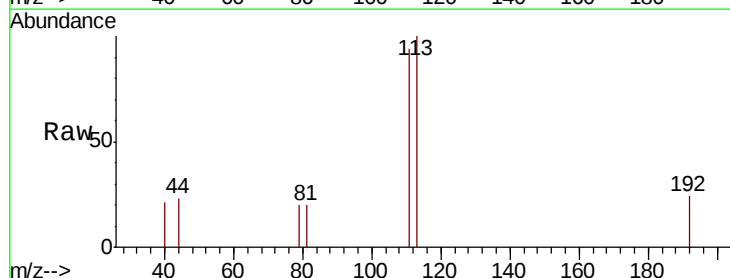
Tgt Ion:113 Resp: 1084

Ion Ratio Lower Upper

113 100

111 98.1 81.8 122.6

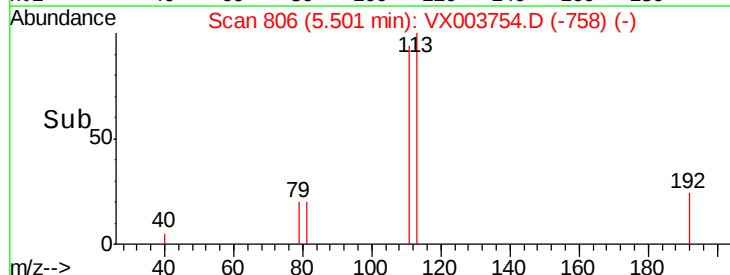
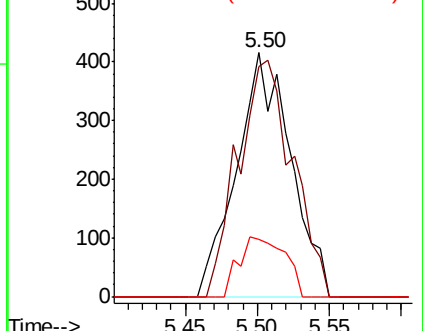
192 20.7 18.8 28.2

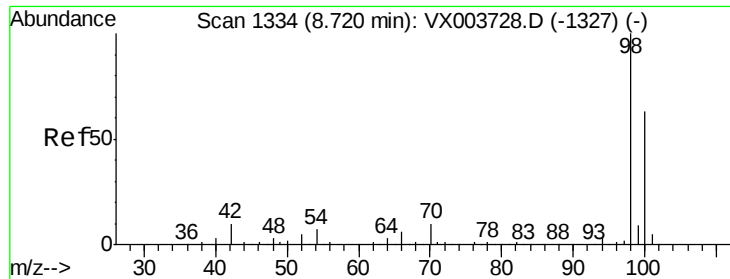


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 40.86 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003754.D

Acq: 31 Jul 2018 16:59

Instrument :

MSVOA\_X

ClientSampleId :

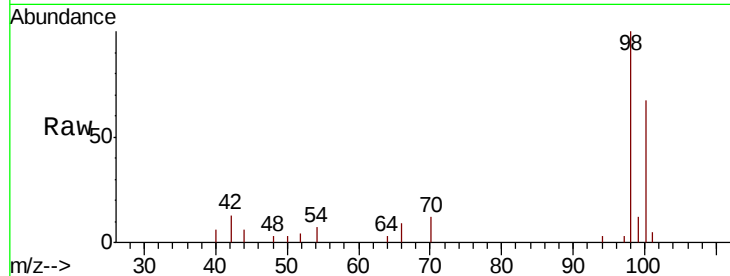
GW-03(3-5)

Tot Ion: 98 Resp: 4084

Ion Ratio Lower Upper

98 100

100 62.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

2500

2000

1500

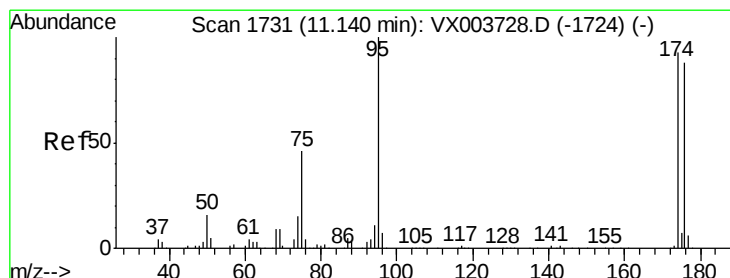
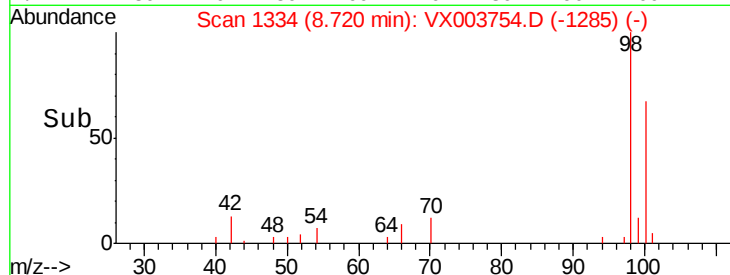
1000

500

0

8.65 8.70 8.75 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 29.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003754.D

Acq: 31 Jul 2018 16:59

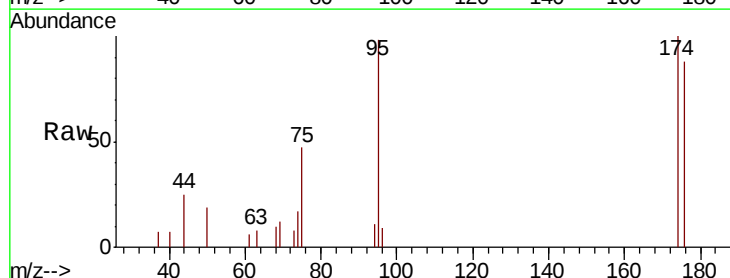
Tgt Ion: 95 Resp: 1092

Ion Ratio Lower Upper

95 100

174 92.9 0.0 186.2

176 93.7 0.0 179.2



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

11.14

1000

800

600

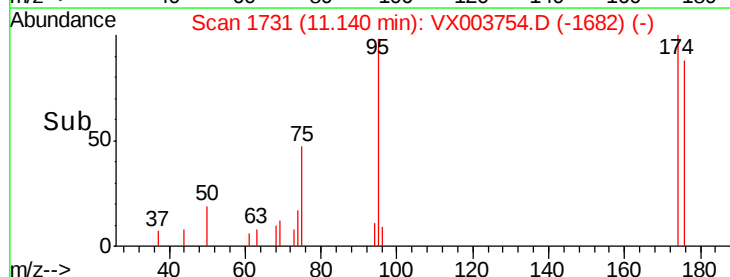
400

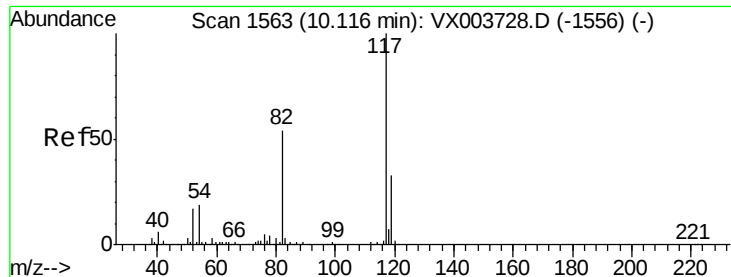
200

0

11.10 11.15

Time-->

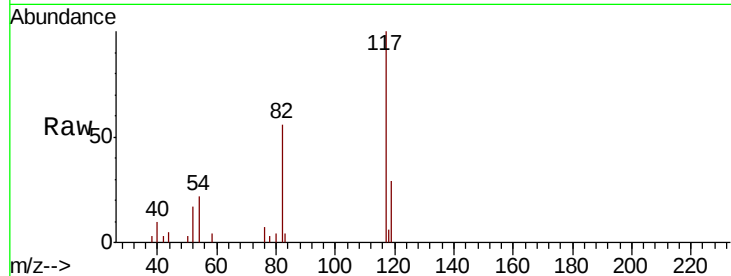




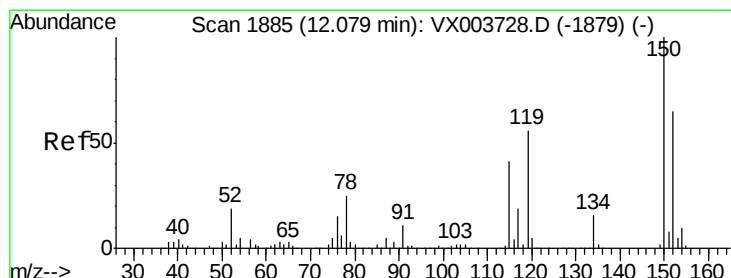
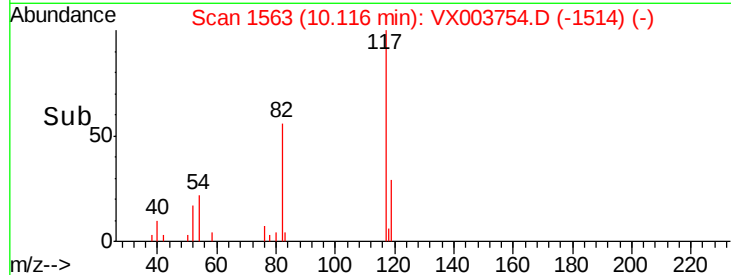
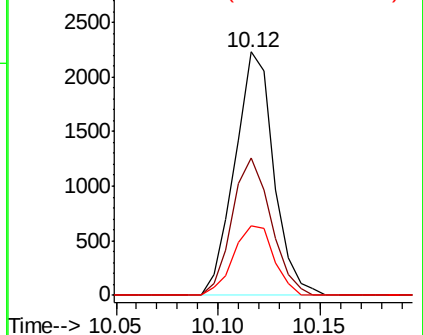
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX003754.D  
Acq: 31 Jul 2018 16:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-03(3-5)

Tot Ion:117 Resp: 2959  
Ion Ratio Lower Upper  
117 100  
82 56.5 43.2 64.8  
119 28.7 26.3 39.5

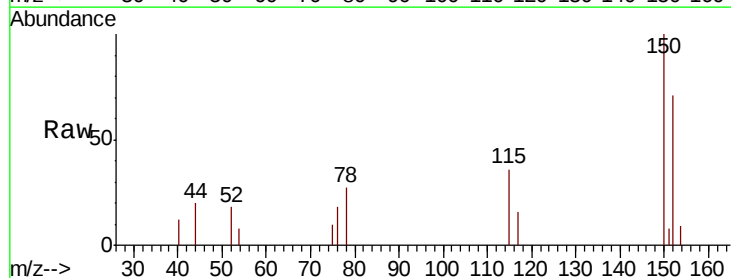


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1885  
Delta R.T. 0.00 min  
Lab File: VX003754.D  
Acq: 31 Jul 2018 16:59

Tgt Ion:152 Resp: 782  
Ion Ratio Lower Upper  
152 100  
115 51.3 38.5 115.3  
150 164.7 0.0 346.2



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

