

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\  
 Data File : VX005923.D  
 Acq On : 13 Nov 2018 02:12  
 Operator : JC/MD  
 Sample : J5918-12  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FIELD-BLANK

Quant Time: Nov 13 06:42:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 07 14:40:53 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 103728   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 151131   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 133327   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 63482    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 66365    | 55.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.30% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 51248    | 49.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.72%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 175340   | 51.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.62% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 59374    | 48.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.64%  |          |

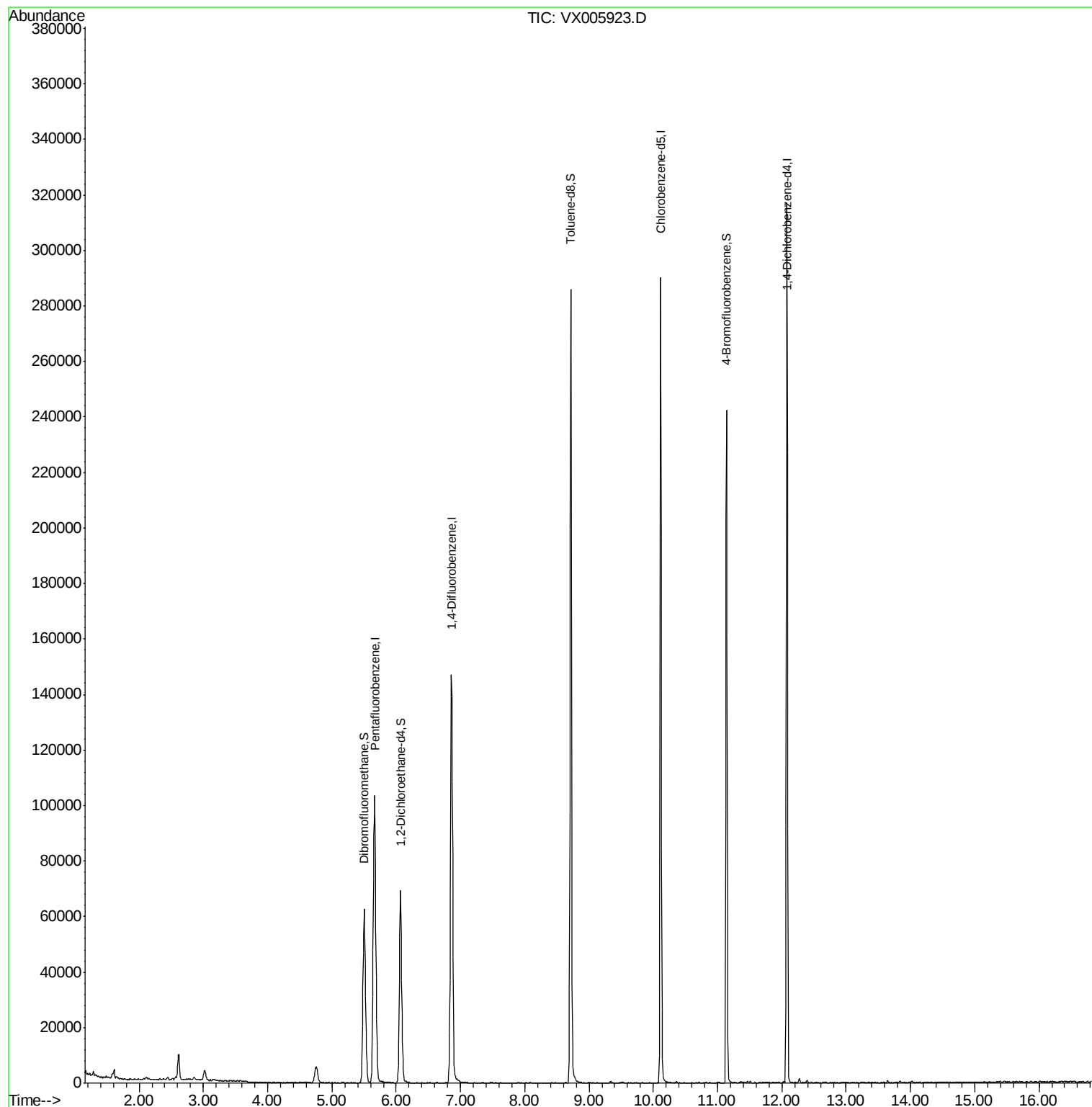
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111218\  
Data File : VX005923.D  
Acq On : 13 Nov 2018 02:12  
Operator : JC/MD  
Sample : J5918-12  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
FIELD-BLANK

Quant Time: Nov 13 06:42:37 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 07 14:40:53 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: VX005923.D

Acq: 13 Nov 2018 02:12

Instrument :

MSVOA\_X

ClientSampleId :

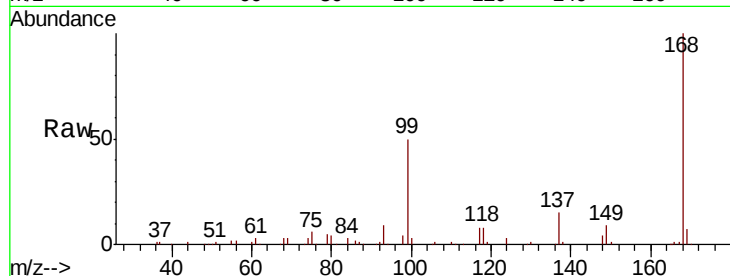
FIELD-BLANK

Tot Ion:168 Resp: 103728

Ion Ratio Lower Upper

168 100

99 50.1 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

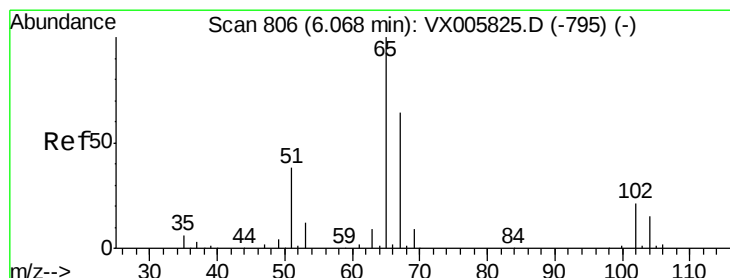
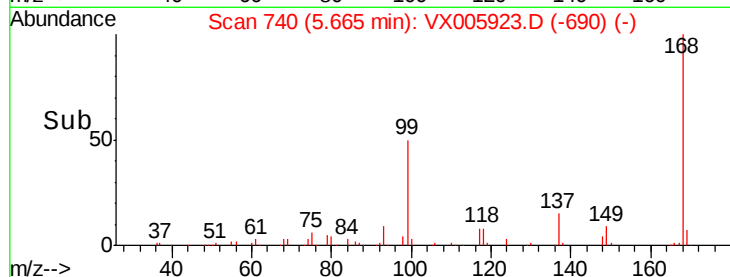
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 55.653 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005923.D

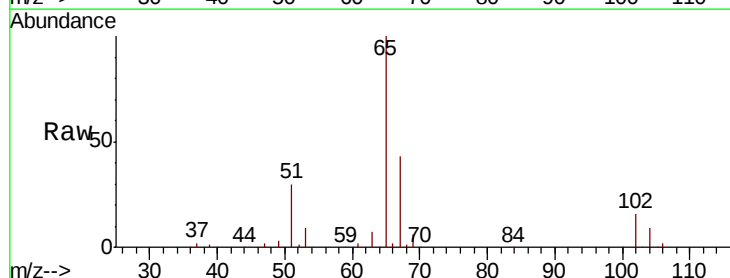
Acq: 13 Nov 2018 02:12

Tgt Ion: 65 Resp: 66365

Ion Ratio Lower Upper

65 100

67 51.8 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

30000

25000

20000

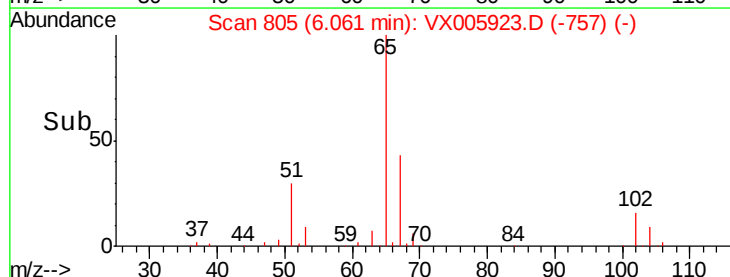
15000

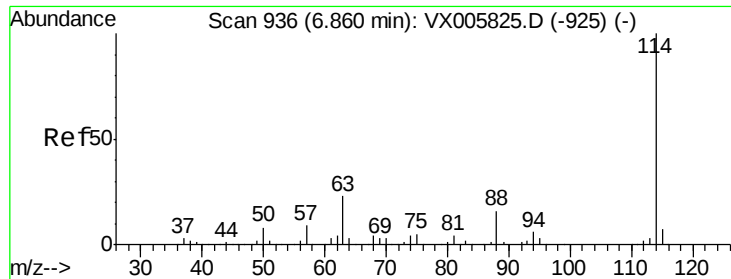
10000

5000

0

Time--> 6.00 6.10 6.20

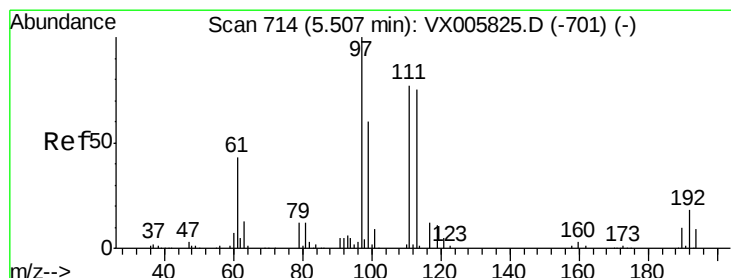
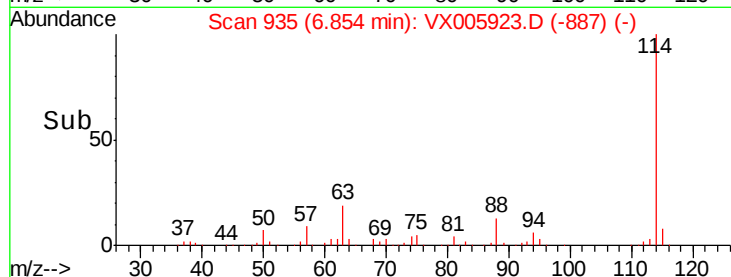
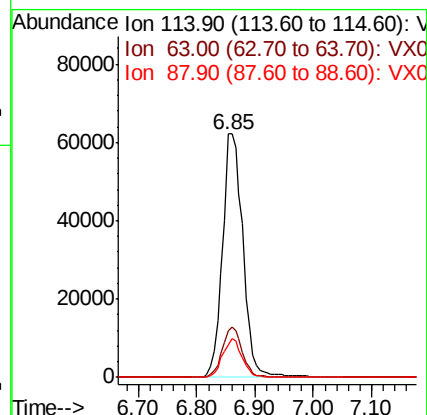
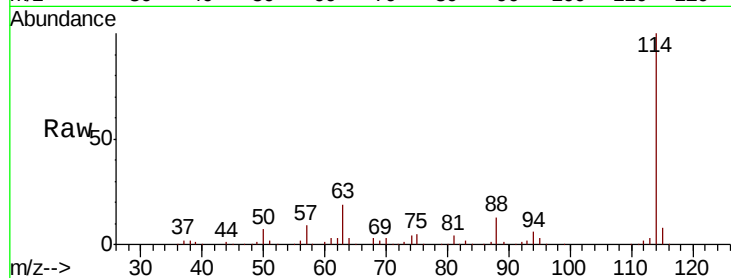




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. -0.01 min  
 Lab File: VX005923.D  
 Acq: 13 Nov 2018 02:12

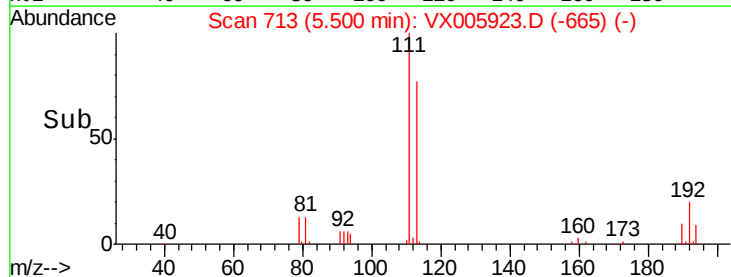
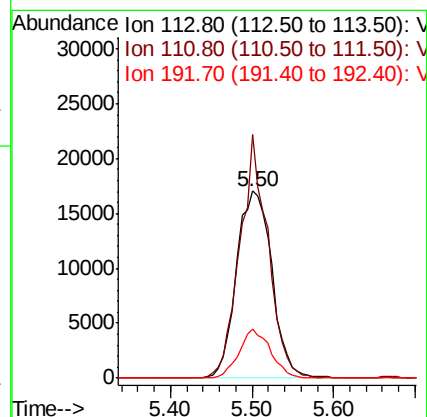
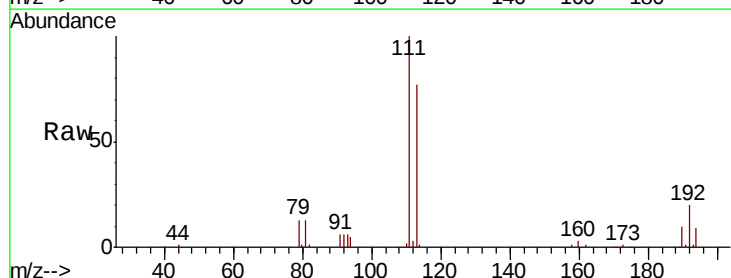
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FIELD-BLANK

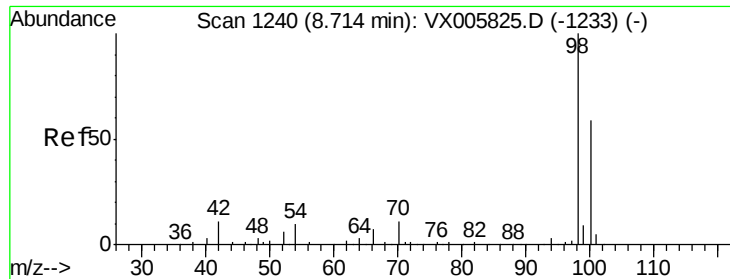
Tot Ion:114 Resp: 151131  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 42.8  
 88 13.4 0.0 31.2



#35  
 Dibromofluoromethane  
 Concen: 49.856 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.01 min  
 Lab File: VX005923.D  
 Acq: 13 Nov 2018 02:12

Tgt Ion:113 Resp: 51248  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 82.3 123.5  
 192 23.2 17.9 26.9

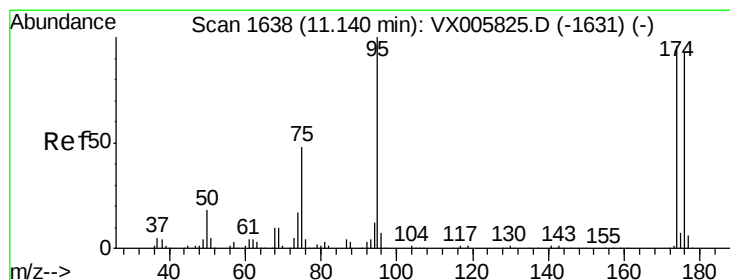
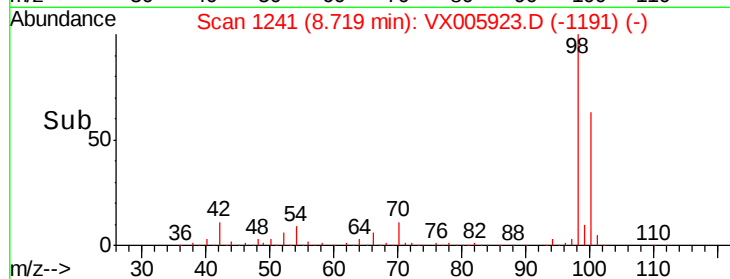
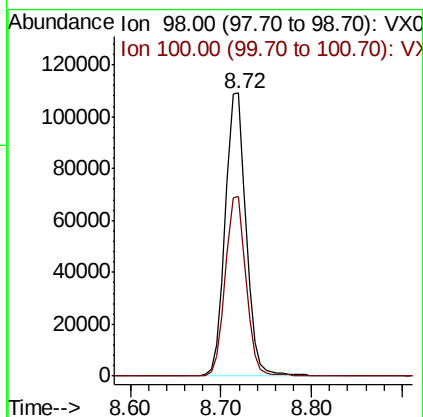
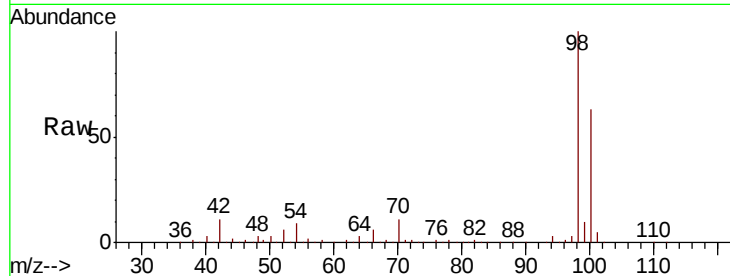




#50  
Toluene-d8  
Concen: 51.308 ug/l  
RT: 8.72 min Scan# 1241  
Delta R.T. 0.01 min  
Lab File: VX005923.D  
Acq: 13 Nov 2018 02:12

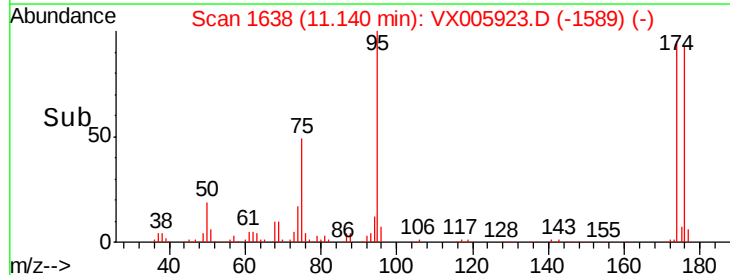
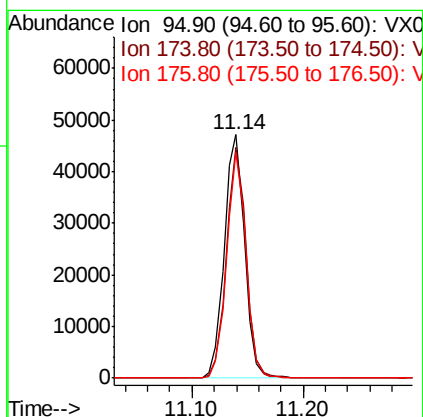
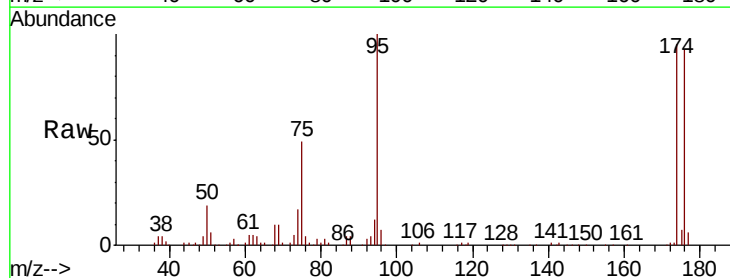
Instrument :  
MSVOA\_X  
ClientSampleId :  
FIELD-BLANK

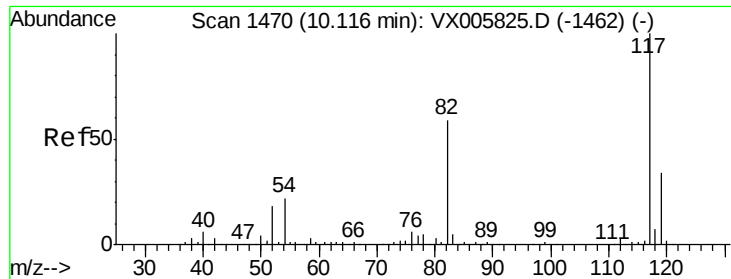
Tot Ion: 98 Resp: 175340  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.3 76.9



#62  
4-Bromofluorobenzene  
Concen: 48.323 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VX005923.D  
Acq: 13 Nov 2018 02:12

Tgt Ion: 95 Resp: 59374  
Ion Ratio Lower Upper  
95 100  
174 92.1 0.0 184.4  
176 88.3 0.0 177.4

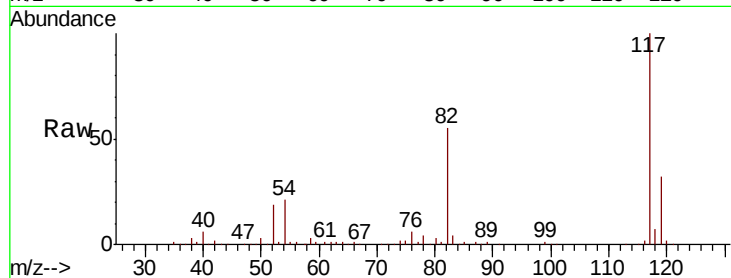




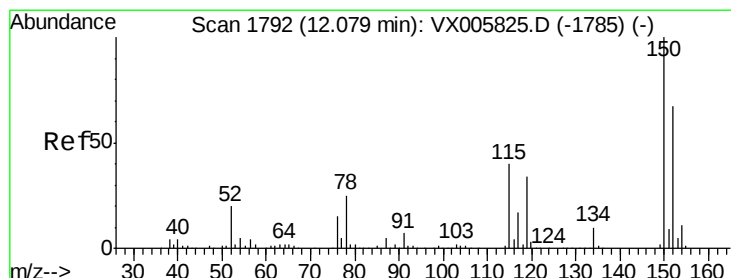
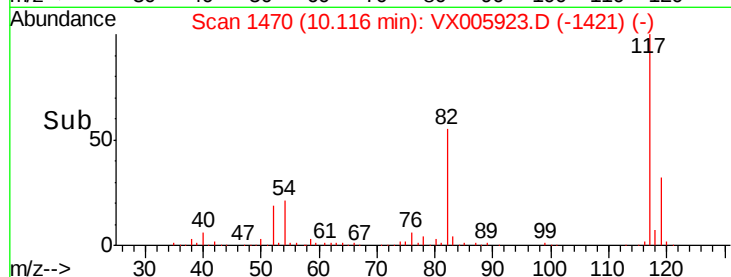
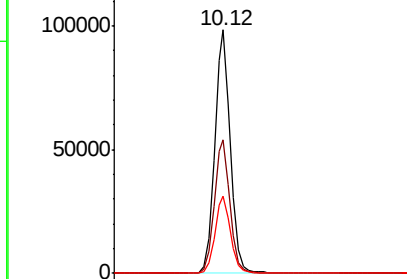
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005923.D  
Acq: 13 Nov 2018 02:12

Instrument :  
MSVOA\_X  
ClientSampled :  
FIELD-BLANK

Tot Ion:117 Resp: 133327  
Ion Ratio Lower Upper  
117 100  
82 55.1 44.1 66.1  
119 31.8 26.2 39.2

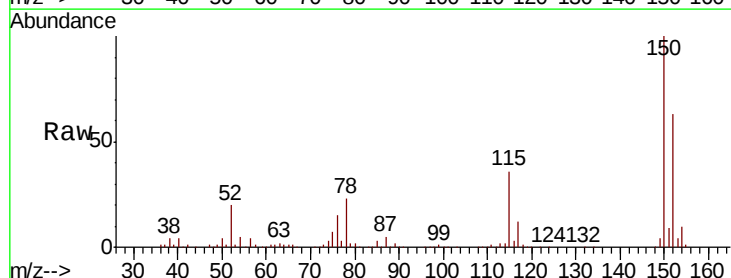


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX005923.D  
Acq: 13 Nov 2018 02:12

Tgt Ion:152 Resp: 63482  
Ion Ratio Lower Upper  
152 100  
115 56.4 39.4 118.1  
150 158.4 0.0 346.4



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

