

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\  
 Data File : VX013968.D  
 Acq On : 12 Dec 2019 11:47  
 Operator : JC/SP  
 Sample : VX1212WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1212WBL01

Quant Time: Dec 13 02:59:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 563689   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 861334   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 768944   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 338737   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 6.04   | 65  | 320417   | 48.97 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.94% |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 251348   | 47.20 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.40% |      |
| 50) Toluene-d8              | 8.71   | 98  | 1034367  | 49.86 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.72% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 349715   | 46.75 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.50% |      |

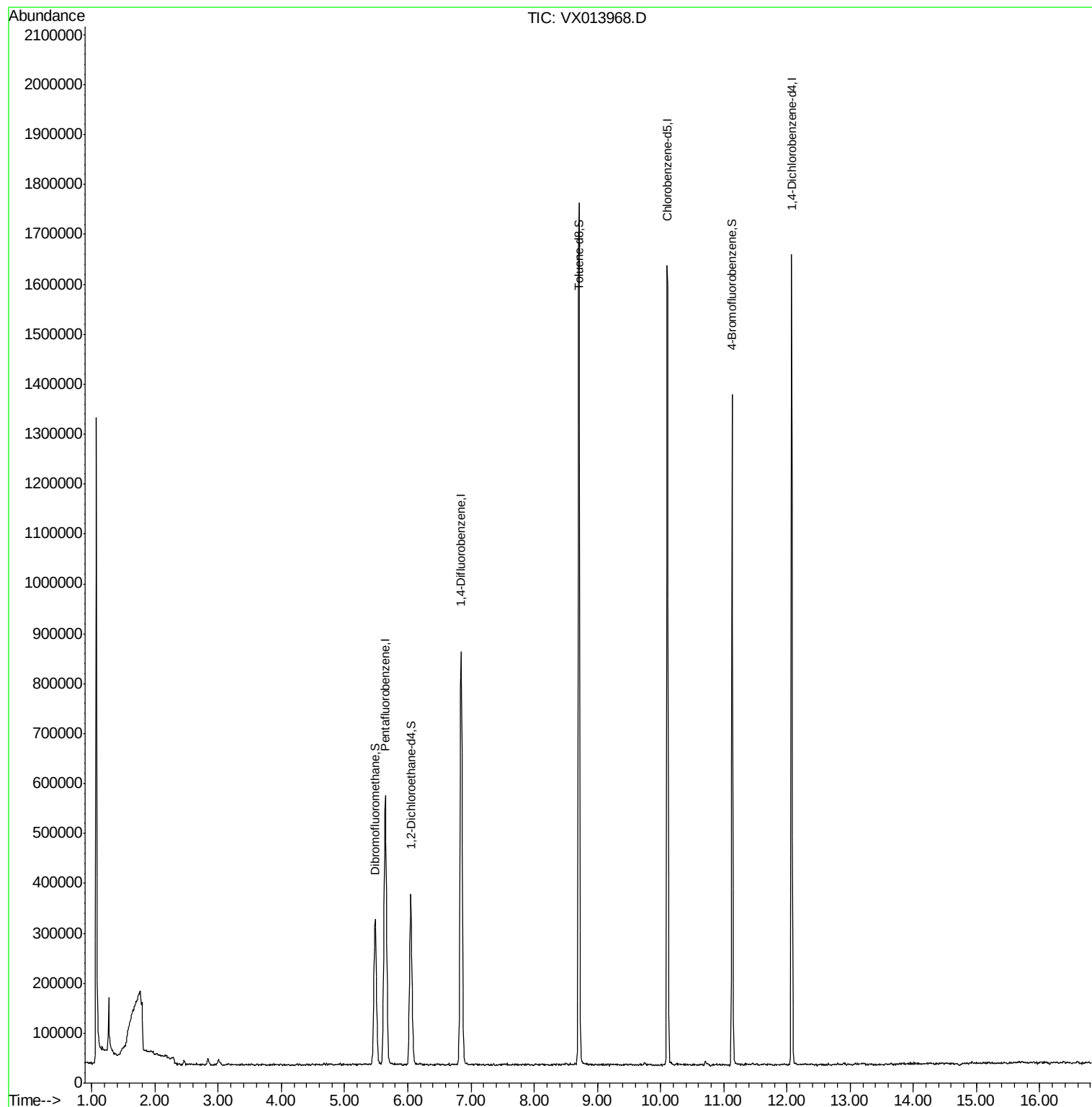
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

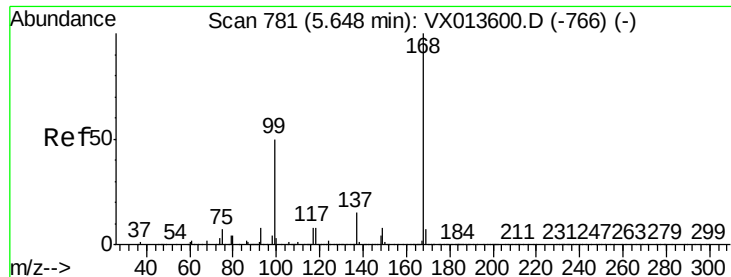
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VX1212WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1212WBL01

Quant Time: Dec 13 02:59:27 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 26 15:53:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.01 min

Lab File: VX013968.D

Acq: 12 Dec 2019 11:47

Instrument :

MSVOA\_X

ClientSampleId :

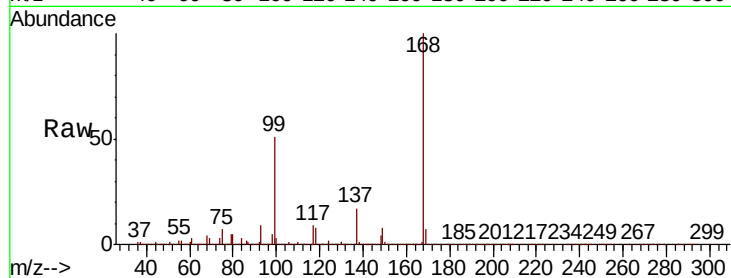
VX1212WBL01

Tot Ion:168 Resp: 563689

Ion Ratio Lower Upper

168 100

99 50.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

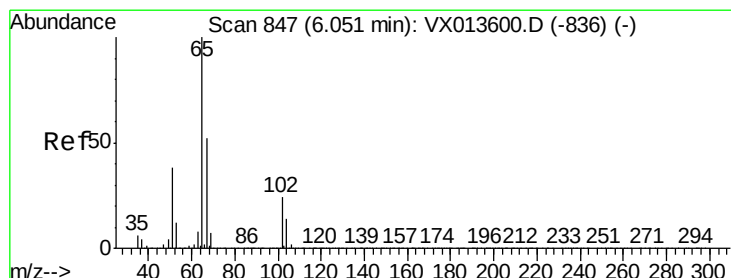
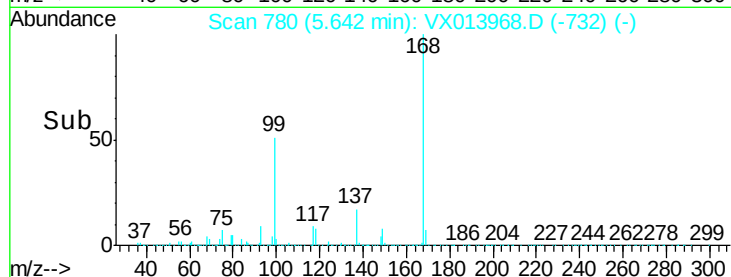
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 48.970 ug/l

RT: 6.04 min Scan# 846

Delta R.T. -0.01 min

Lab File: VX013968.D

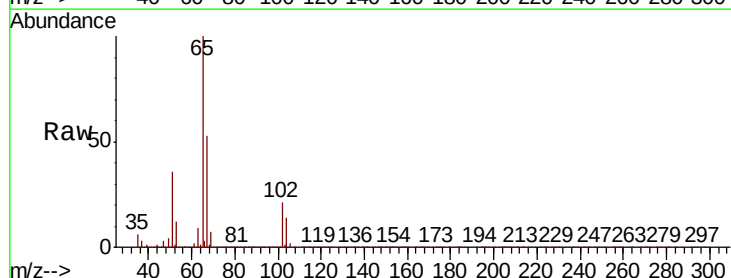
Acq: 12 Dec 2019 11:47

Tgt Ion: 65 Resp: 320417

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

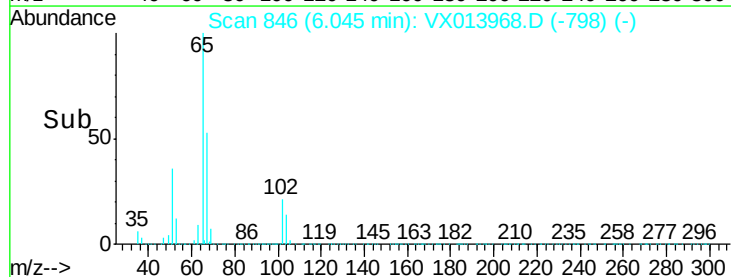
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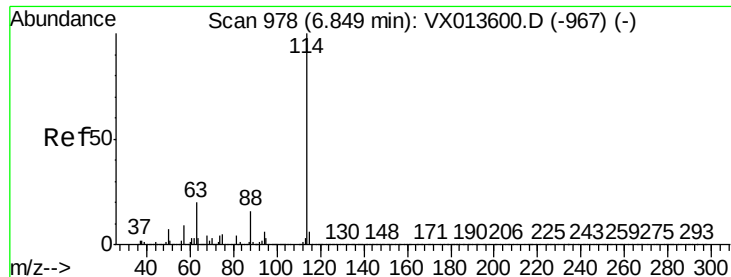
50000

0

Time-->

5.90 6.00 6.10 6.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 977

Delta R.T. -0.01 min

Lab File: VX013968.D

Acq: 12 Dec 2019 11:47

Instrument :

MSVOA\_X

ClientSampleId :

VX1212WBL01

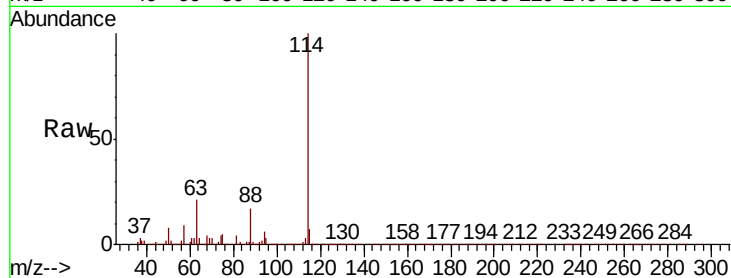
Tot Ion:114 Resp: 861334

Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.6

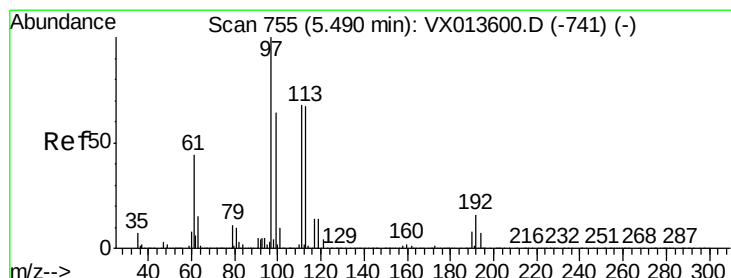
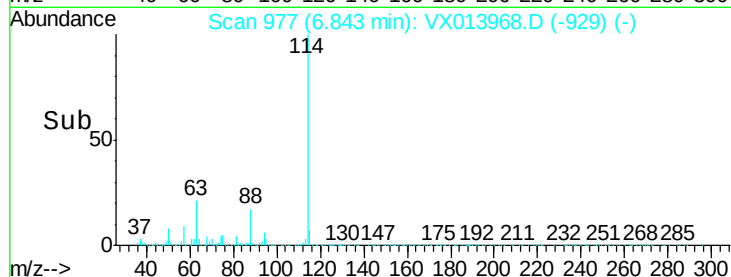
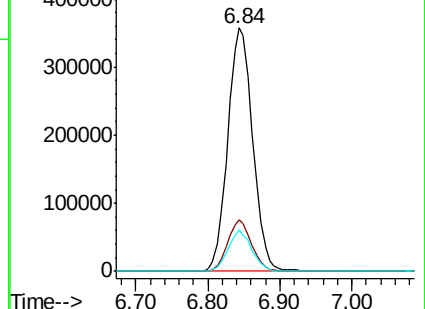
88 16.9 0.0 31.4



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: 47.203 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013968.D

Acq: 12 Dec 2019 11:47

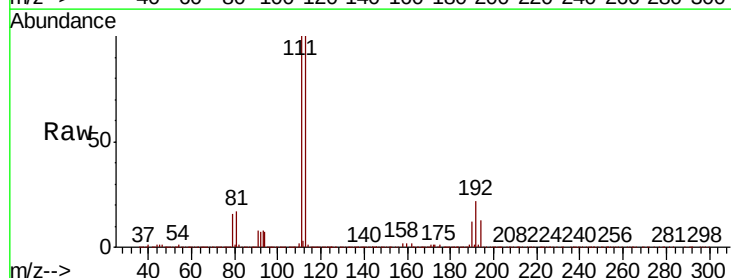
Tgt Ion:113 Resp: 251348

Ion Ratio Lower Upper

113 100

111 102.9 83.6 125.4

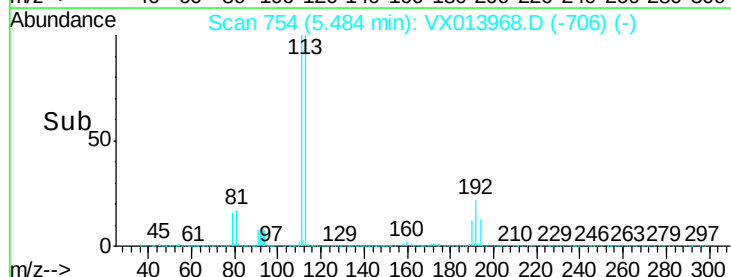
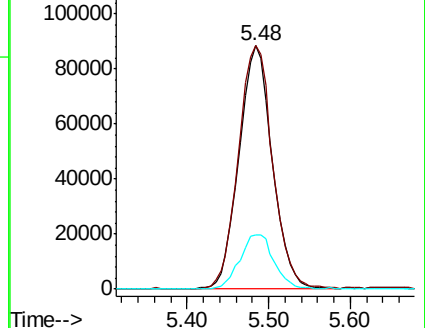
192 22.9 19.2 28.8

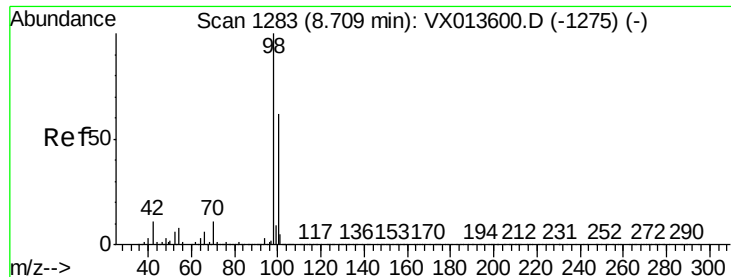


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 49.858 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013968.D

Acq: 12 Dec 2019 11:47

Instrument :

MSVOA\_X

ClientSampleId :

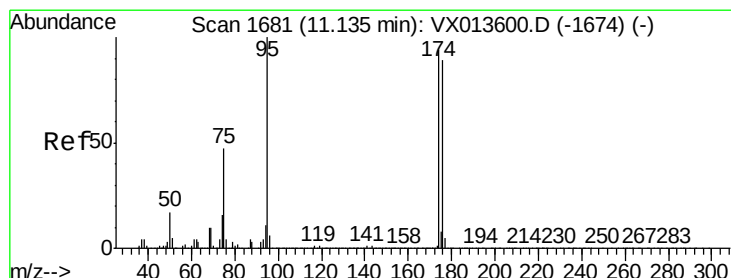
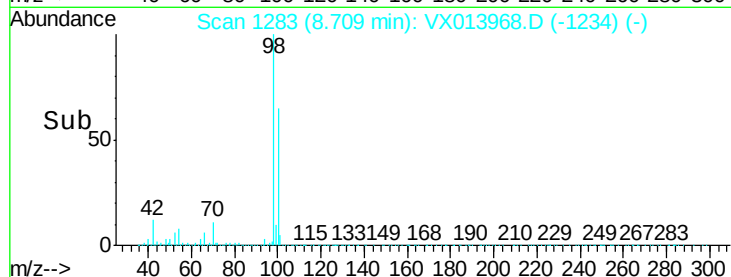
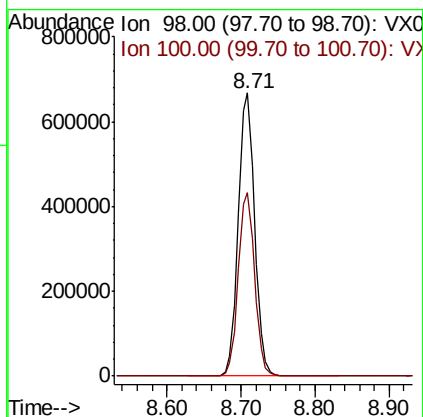
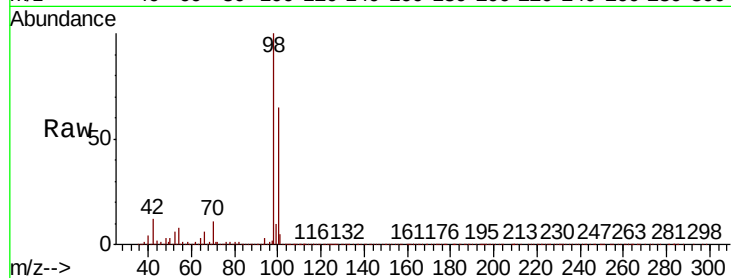
VX1212WBL01

Tot Ion: 98 Resp: 1034367

Ion Ratio Lower Upper

98 100

100 64.9 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 46.746 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013968.D

Acq: 12 Dec 2019 11:47

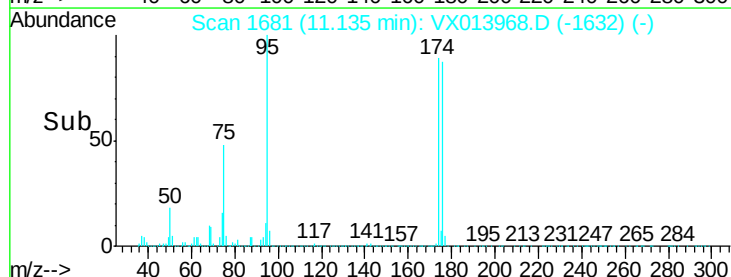
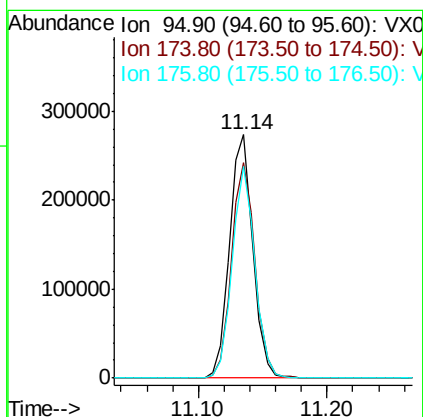
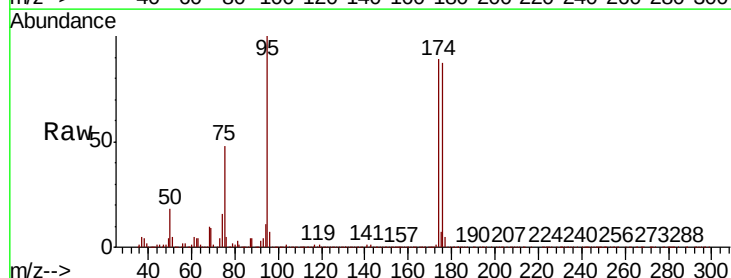
Tgt Ion: 95 Resp: 349715

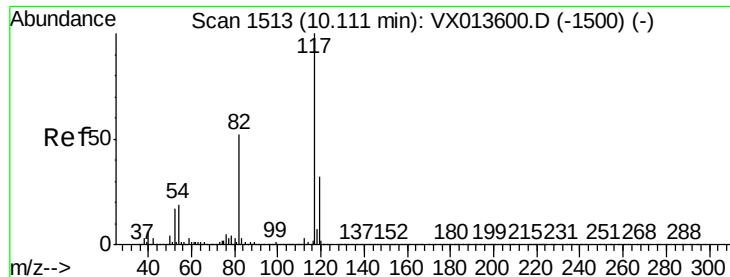
Ion Ratio Lower Upper

95 100

174 88.4 0.0 180.0

176 84.6 0.0 173.6

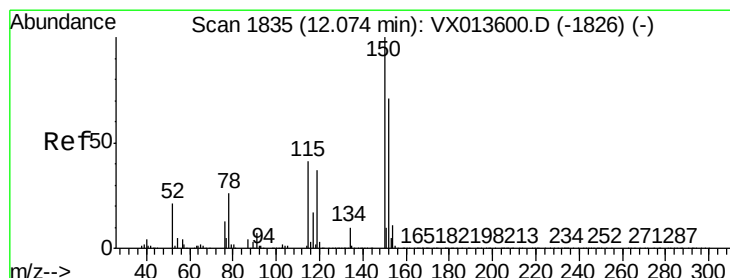
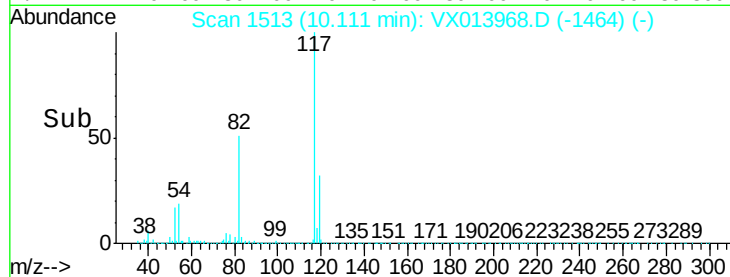
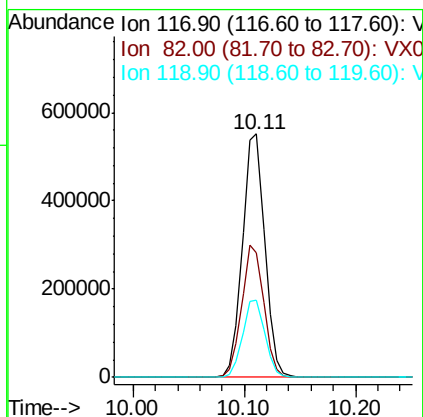
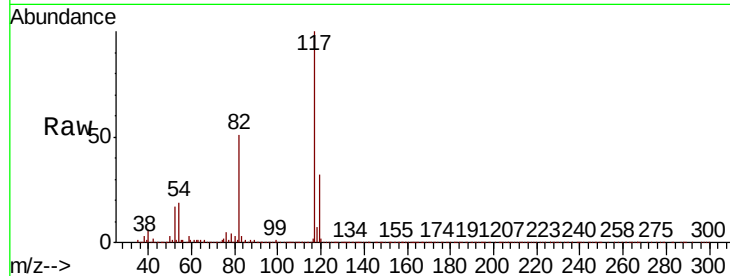




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX013968.D  
Acq: 12 Dec 2019 11:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1212WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.3  | 41.8  | 62.8  |
| 119     | 31.9  | 25.8  | 38.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX013968.D  
Acq: 12 Dec 2019 11:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.1  | 38.4  | 115.1 |
| 150     | 157.9 | 0.0   | 346.8 |

