

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091319\  
 Data File : VX012388.D  
 Acq On : 13 Sep 2019 15:53  
 Operator : SY/SP  
 Sample : K4695-09  
 Misc : 6.32g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T5-2-(0)

Quant Time: Sep 14 00:36:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 12:55:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 158220   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 269992   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 218036   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 75367    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 105098   | 46.98 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.96%  |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 79703    | 46.05 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.10%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 310229   | 51.11 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.22% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 99522    | 35.36 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 70.72%  |      |

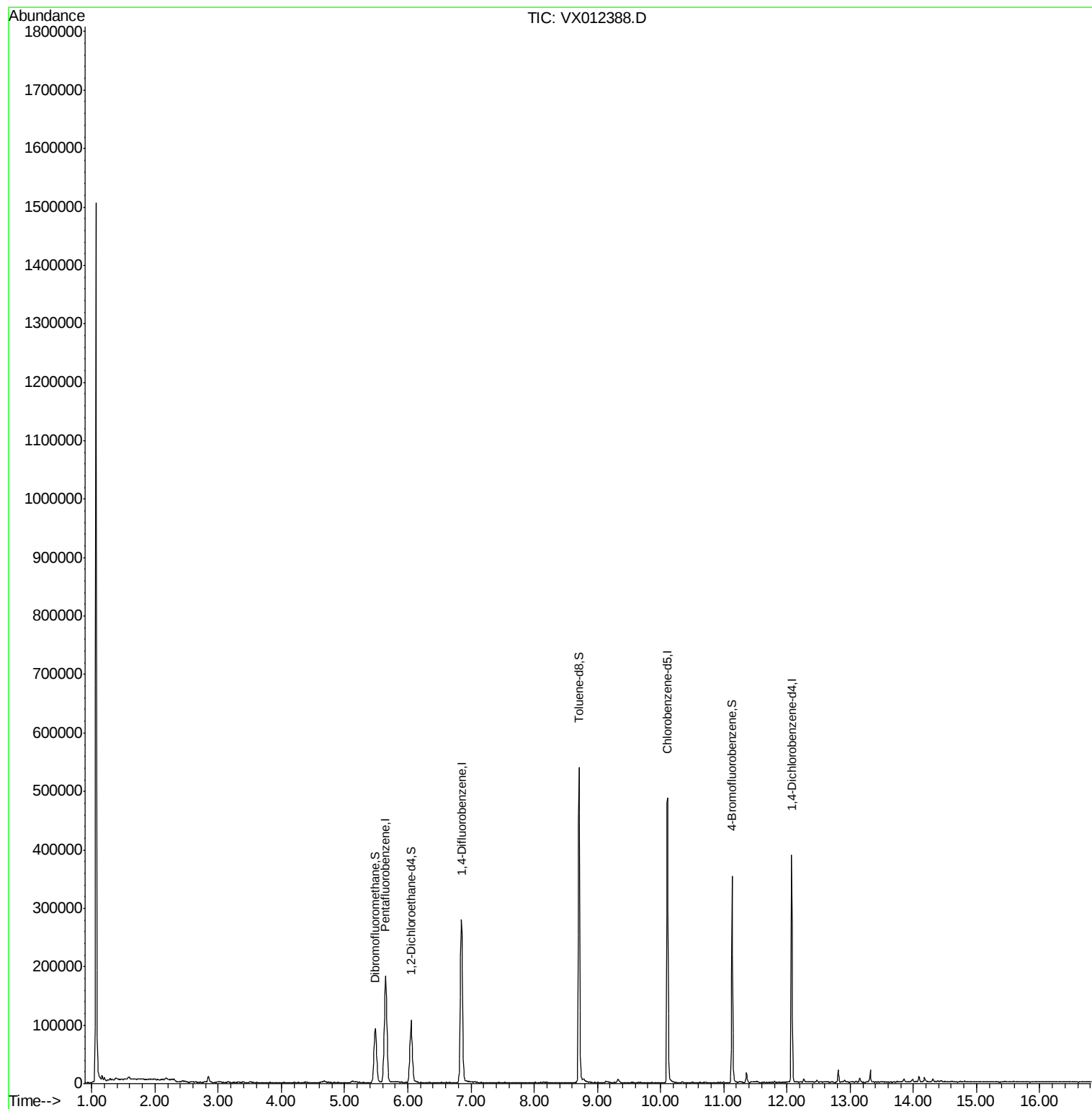
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

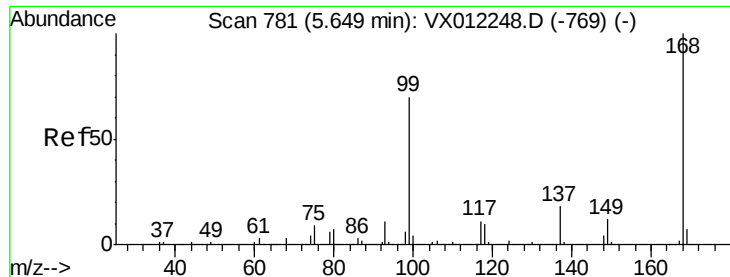
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K4695-09  
Misc : 6.32g/5.0mL/MSVOA X/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T5-2-(0)

Quant Time: Sep 14 00:36:34 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091019S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 10 12:55:26 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012388.D

Acq: 13 Sep 2019 15:53

Instrument :

MSVOA\_X

ClientSampleId :

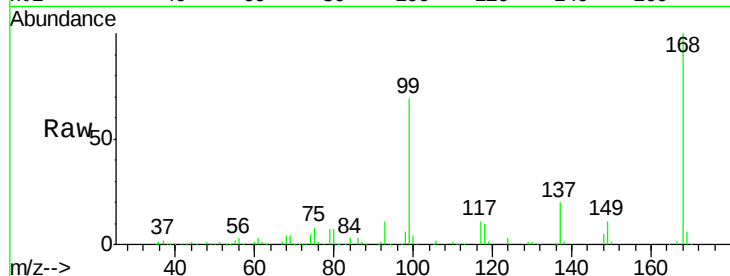
T5-2-(0)

Tot Ion:168 Resp: 158220

Ion Ratio Lower Upper

168 100

99 68.9 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

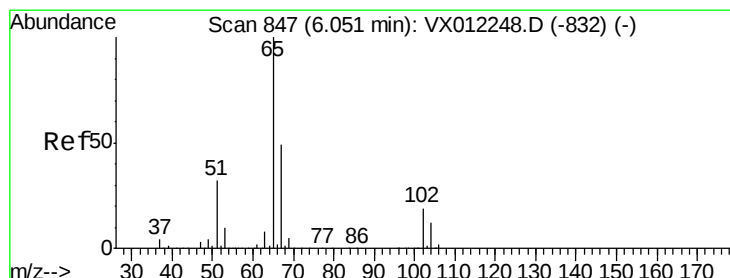
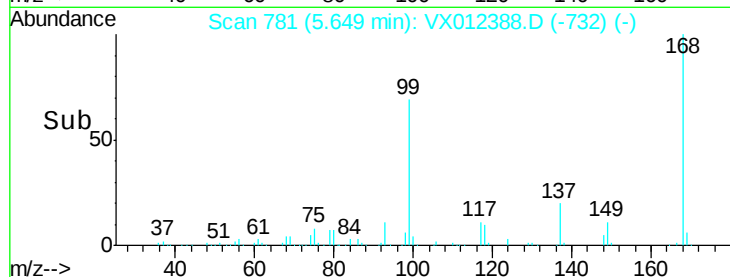
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 46.983 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012388.D

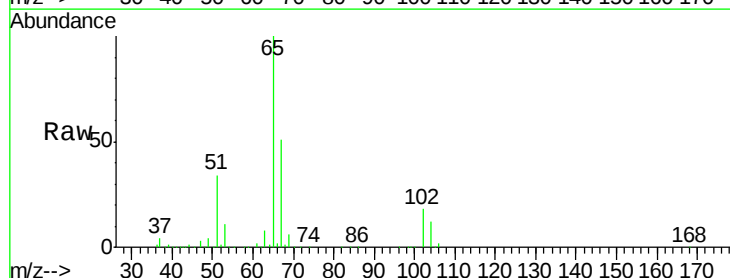
Acq: 13 Sep 2019 15:53

Tgt Ion: 65 Resp: 105098

Ion Ratio Lower Upper

65 100

67 49.7 0.0 99.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

40000

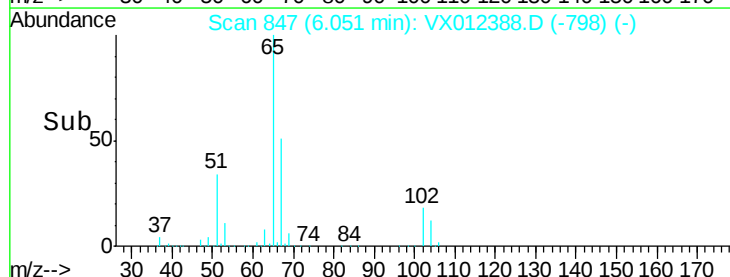
30000

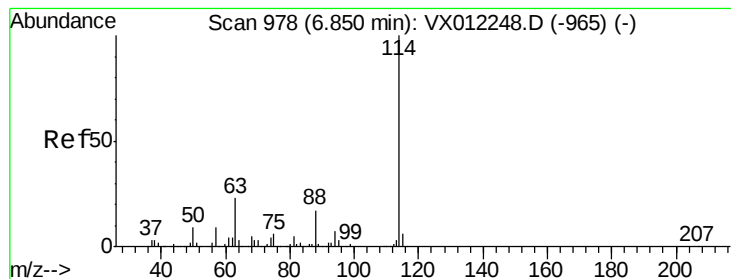
20000

10000

0

Time--> 5.90 6.00 6.10 6.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012388.D

Acq: 13 Sep 2019 15:53

Instrument :

MSVOA\_X

ClientSampleId :

T5-2-(0)

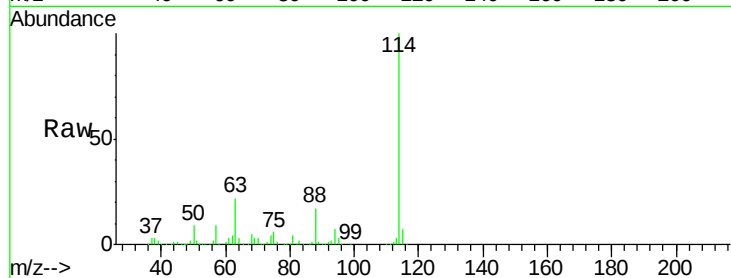
Tot Ion:114 Resp: 269992

Ion Ratio Lower Upper

114 100

63 22.2 0.0 45.2

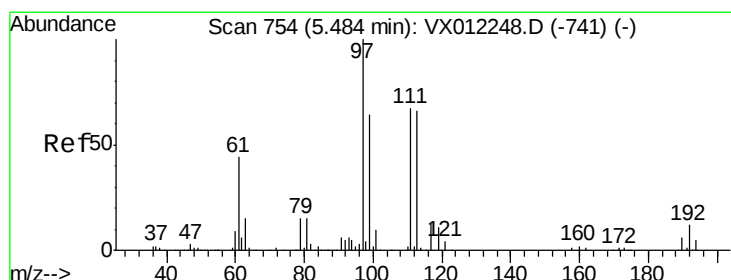
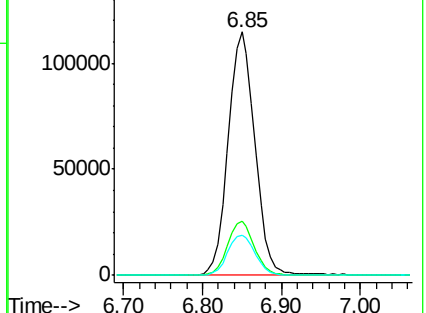
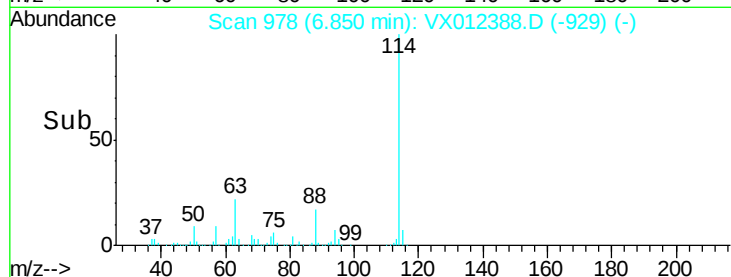
88 16.6 0.0 34.8



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: 46.051 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012388.D

Acq: 13 Sep 2019 15:53

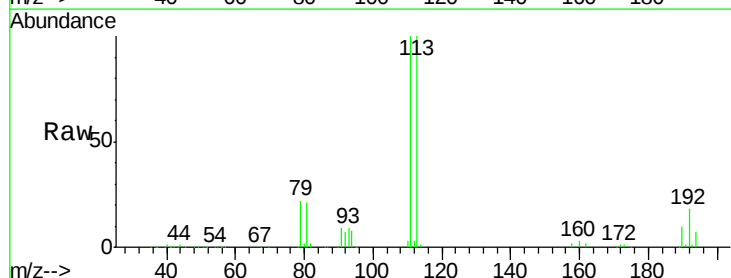
Tgt Ion:113 Resp: 79703

Ion Ratio Lower Upper

113 100

111 101.7 83.0 124.6

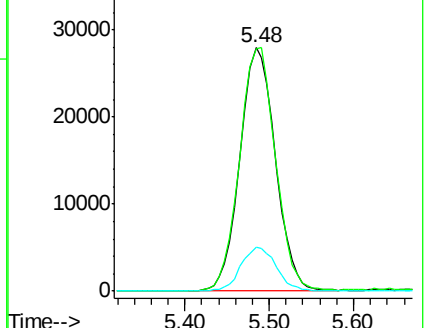
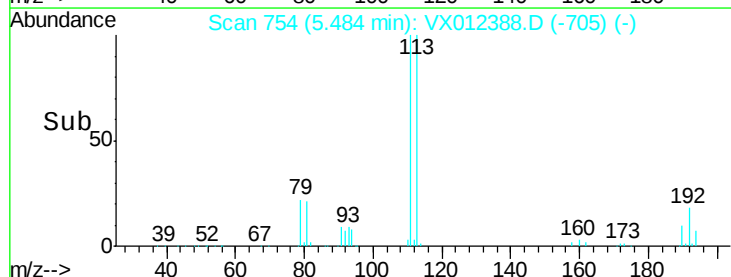
192 18.0 14.3 21.5

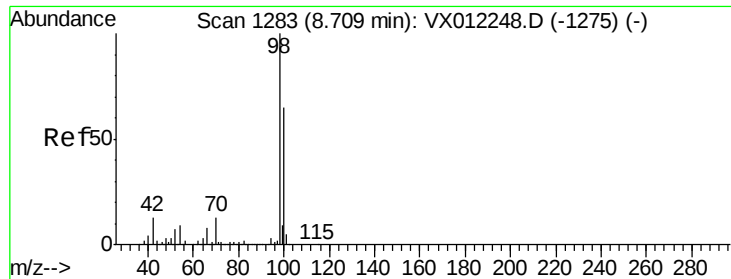


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

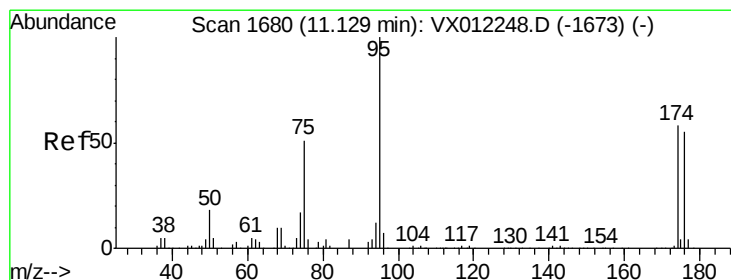
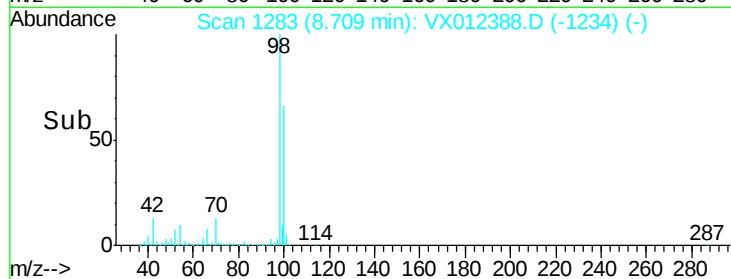
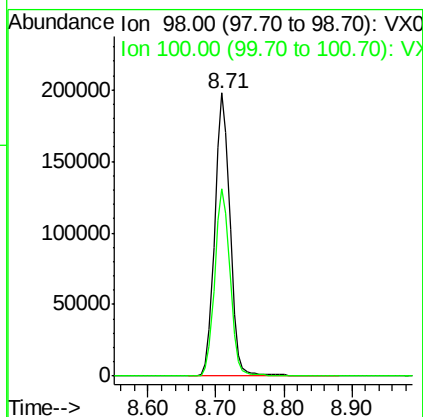
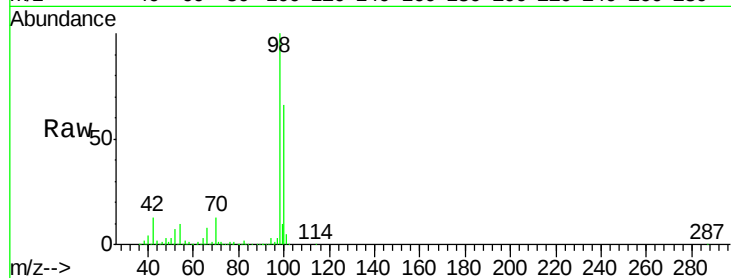




#50  
Toluene-d8  
Concen: 51.105 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012388.D  
Acq: 13 Sep 2019 15:53

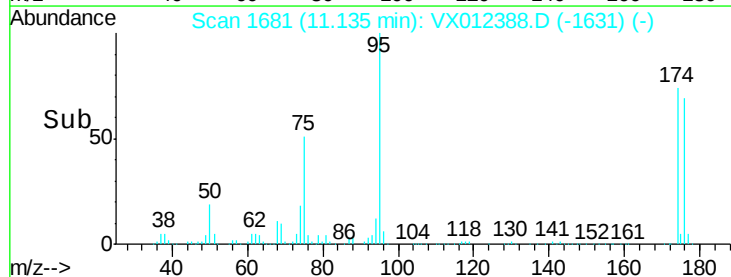
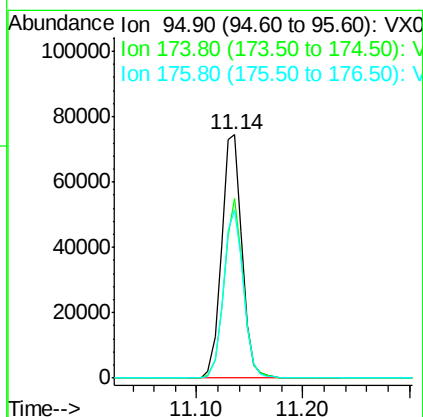
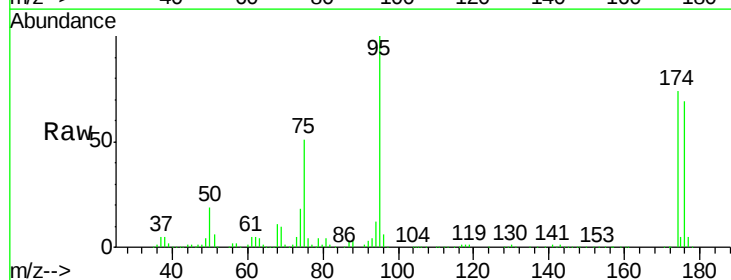
Instrument :  
MSVOA\_X  
ClientSampleId :  
T5-2-(0)

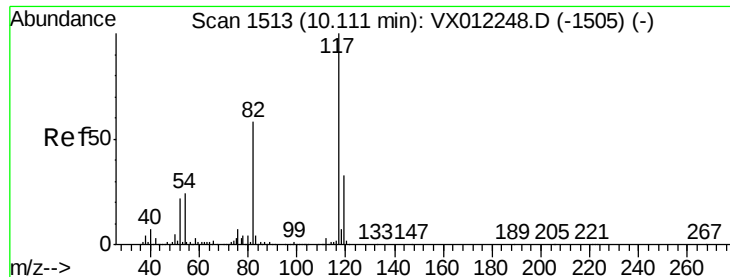
Tot Ion: 98 Resp: 310229  
Ion Ratio Lower Upper  
98 100  
100 65.9 54.1 81.1



#62  
4-Bromofluorobenzene  
Concen: 35.364 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX012388.D  
Acq: 13 Sep 2019 15:53

Tgt Ion: 95 Resp: 99522  
Ion Ratio Lower Upper  
95 100  
174 69.3 0.0 127.0  
176 67.6 0.0 125.8

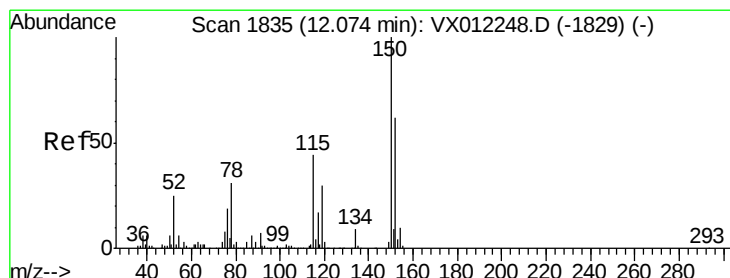
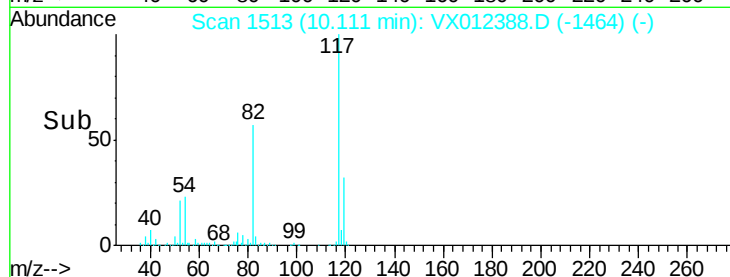
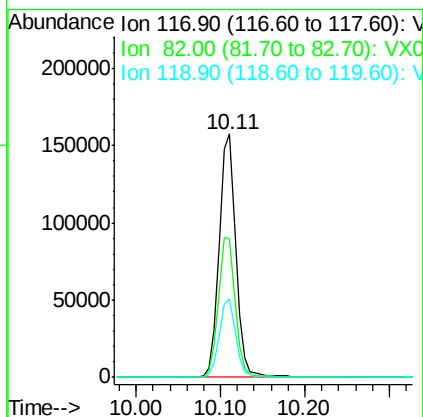
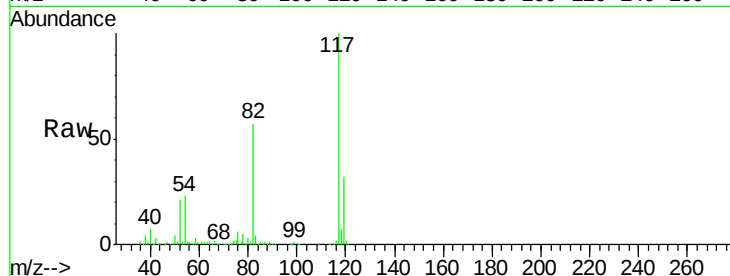




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012388.D  
Acq: 13 Sep 2019 15:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
T5-2-(0)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.0  | 46.4  | 69.6  |
| 119     | 32.3  | 26.6  | 39.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012388.D  
Acq: 13 Sep 2019 15:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 63.1  | 45.5  | 136.4 |
| 150     | 156.1 | 0.0   | 346.4 |

