

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083019\  
 Data File : VX011928.D  
 Acq On : 31 Aug 2019 01:51  
 Operator : SY/SP  
 Sample : K4472-19  
 Misc : 6.05g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T6-S3-(0)

Quant Time: Aug 31 03:27:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 01:59:05 2019  
 Response via : Initial Calibration

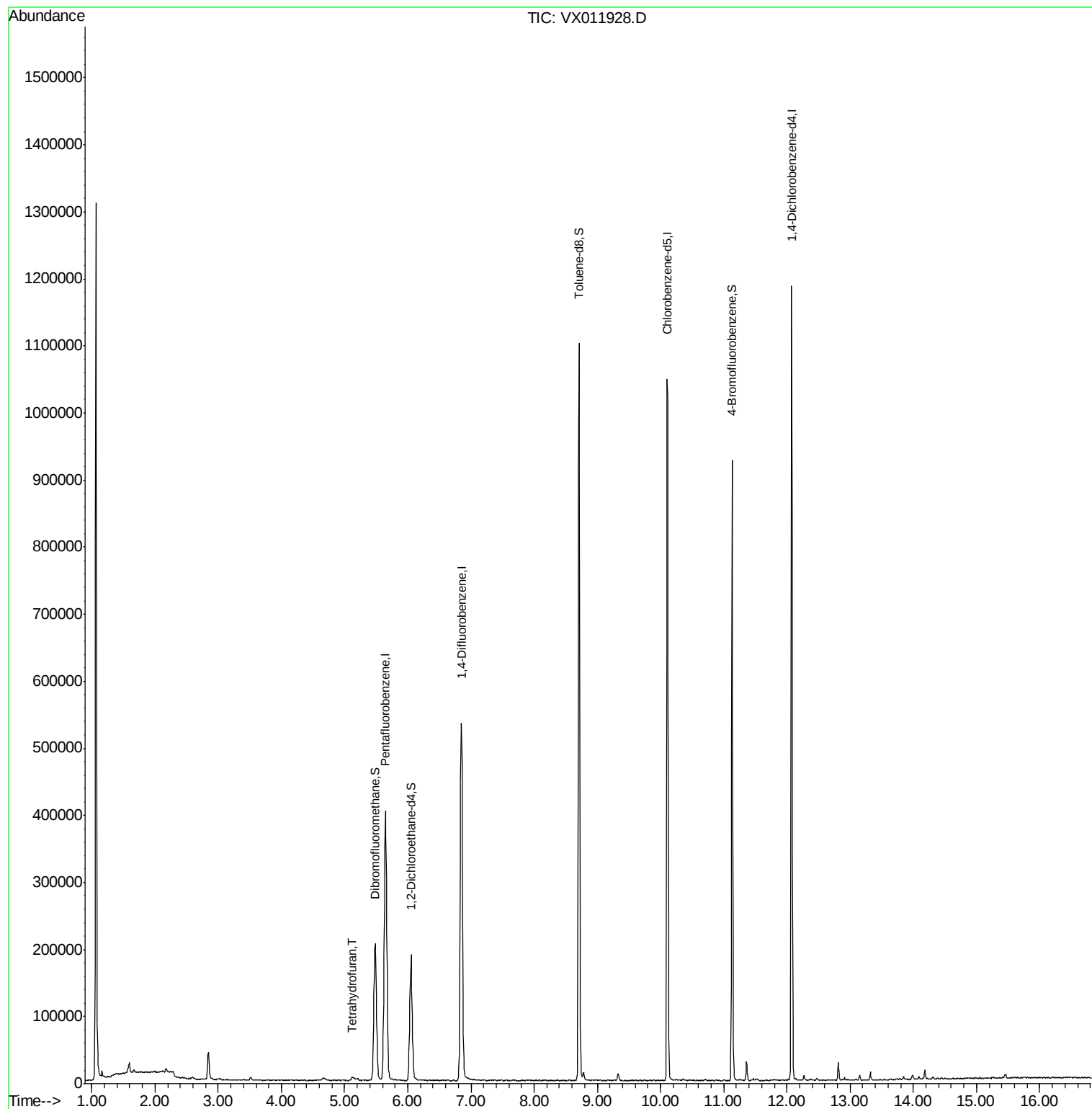
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) Pentafluorobenzene       | 5.65  | 168  | 425991   | 50.00 | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene     | 6.85  | 114  | 567383   | 50.00 | ug/l   | 0.00      |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 496085   | 50.00 | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 12.07 | 152  | 251562   | 50.00 | ug/l   | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 180922   | 44.33 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 88.66% |           |
| 35) Dibromofluoromethane    | 5.48  | 113  | 166833   | 45.85 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 91.70% |           |
| 50) Toluene-d8              | 8.71  | 98   | 641577   | 49.33 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.66% |           |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 231660   | 40.61 | ug/l   | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 81.22% |           |
| Target Compounds            |       |      |          |       |        |           |
| 29) Tetrahydrofuran         | 5.12  | 42   | 4812     | 6.028 | ug/l # | Qvalue 86 |

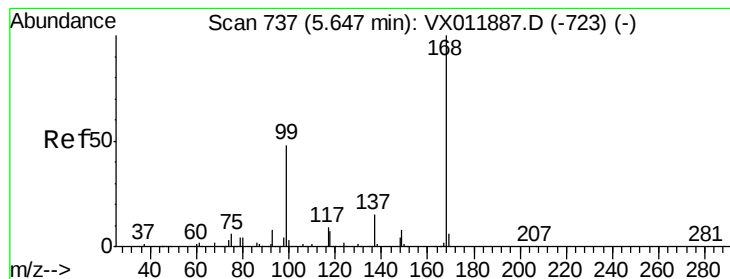
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampleId :  
T6-S3-(0)

Quant Time: Aug 31 03:27:02 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 30 01:59:05 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: VX011928.D

Acq: 31 Aug 2019 01:51

Instrument :

MSVOA\_X

ClientSampleId :

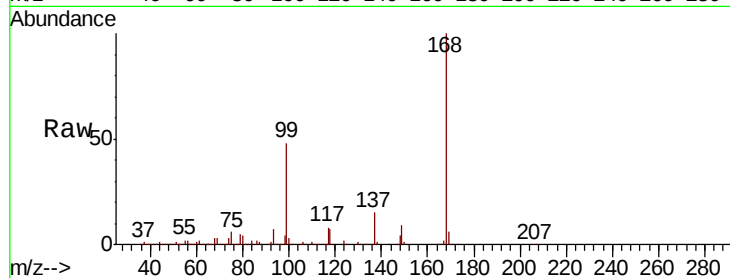
T6-S3-(0)

Tot Ion:168 Resp: 425991

Ion Ratio Lower Upper

168 100

99 47.5 38.4 57.6



Abundance Ion 167.90 (167.60 to 168.60): VX011887.D (-723) (-)

Ion 98.90 (98.60 to 99.60): VX011887.D (-723) (-)

5.65

150000

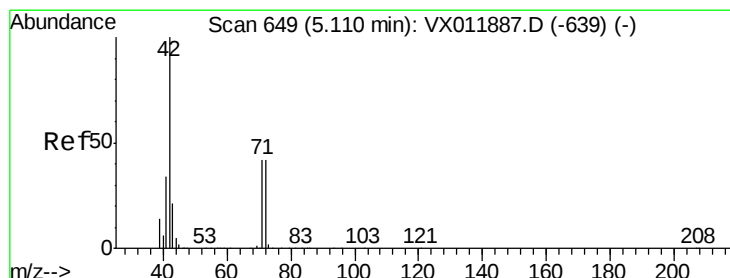
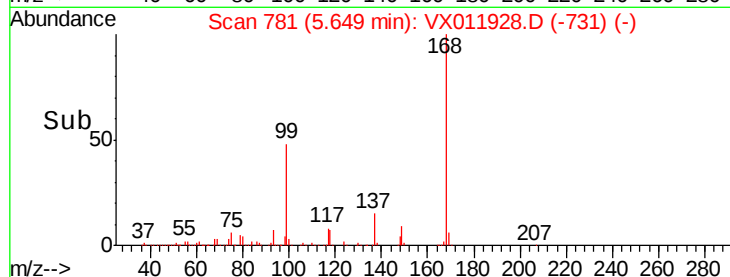
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#29

Tetrahydrofuran

Concen: 6.028 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX011928.D

Acq: 31 Aug 2019 01:51

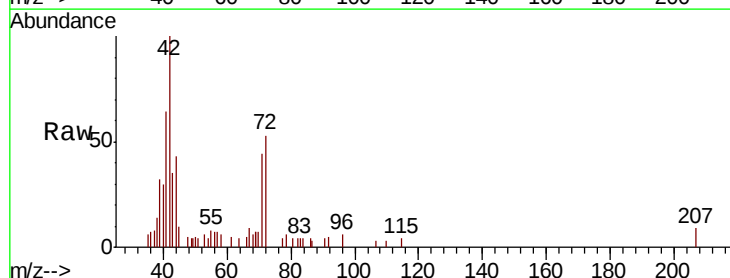
Tgt Ion: 42 Resp: 4812

Ion Ratio Lower Upper

42 100

72 49.5 36.2 54.4

71 54.9 33.1 49.7#



Abundance Ion 42.00 (41.70 to 42.70): VX011887.D (-639) (-)

Ion 72.00 (71.70 to 72.70): VX011887.D (-639) (-)

Ion 71.00 (70.70 to 71.70): VX011887.D (-639) (-)

2000

1500

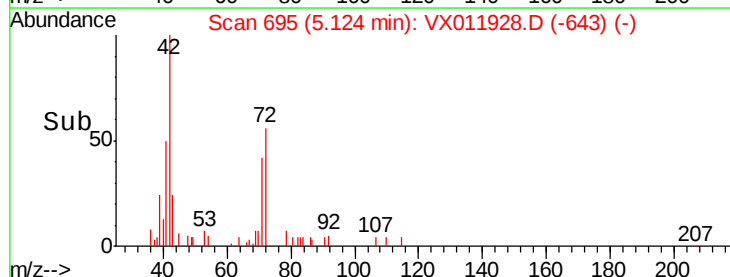
1000

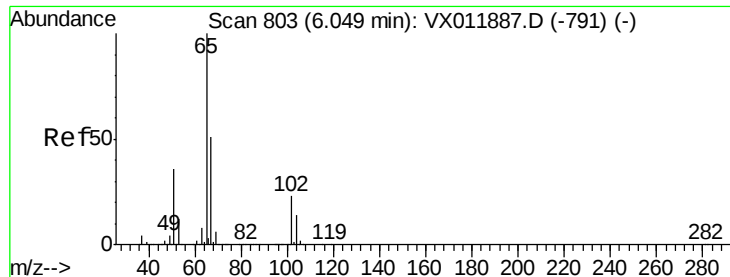
500

0

Time-->

5.00 5.10 5.20

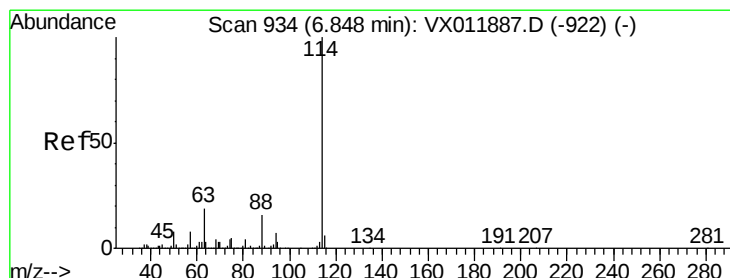
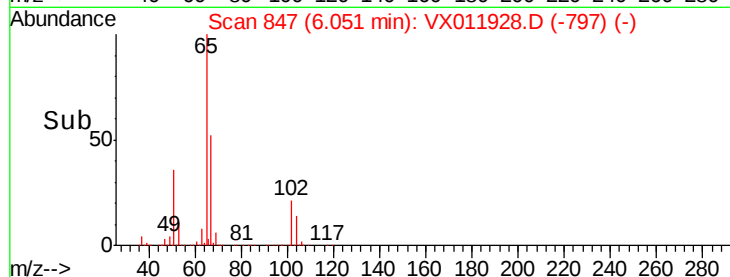
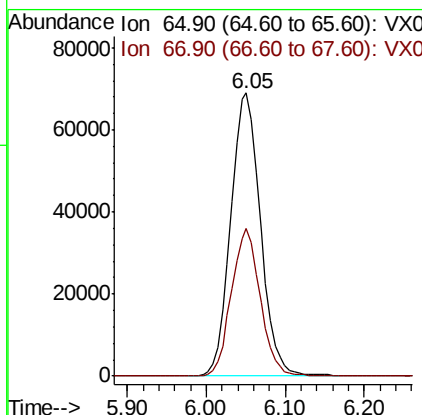
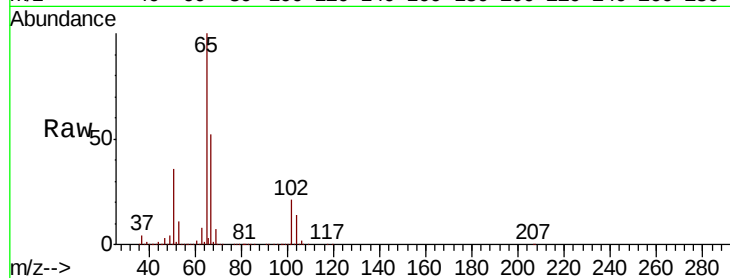




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.328 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX011928.D  
 Acq: 31 Aug 2019 01:51

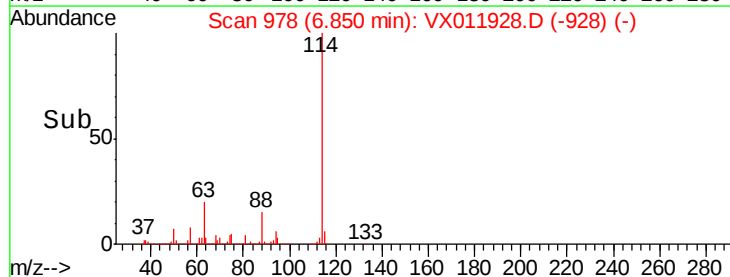
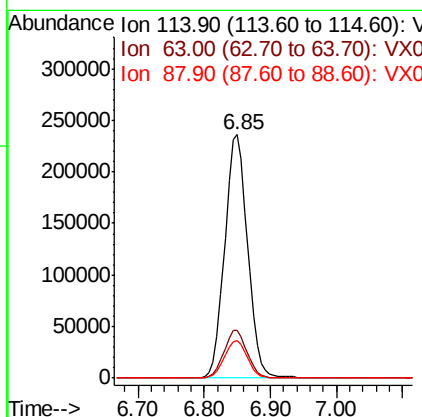
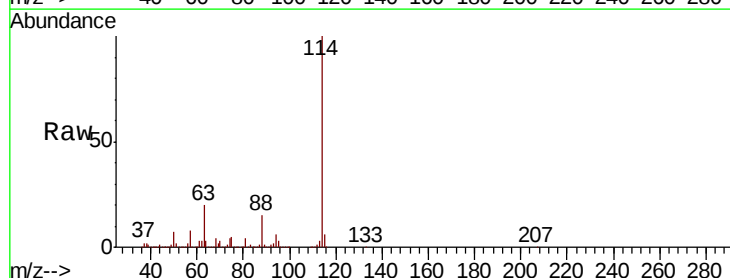
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T6-S3-(0)

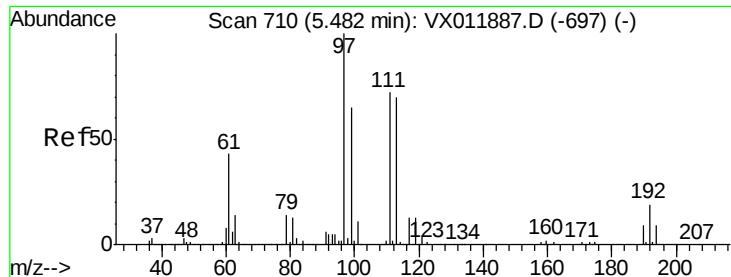
Tot Ion: 65 Resp: 180922  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 102.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX011928.D  
 Acq: 31 Aug 2019 01:51

Tgt Ion: 114 Resp: 567383  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 38.8  
 88 15.3 0.0 31.2

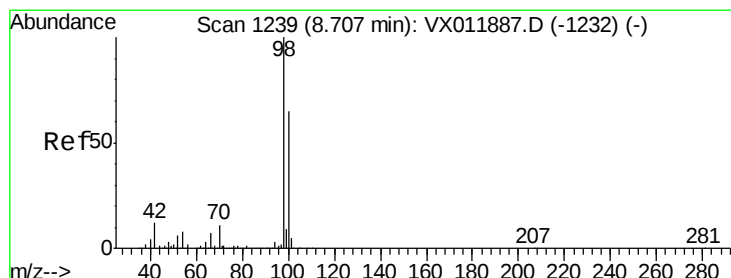
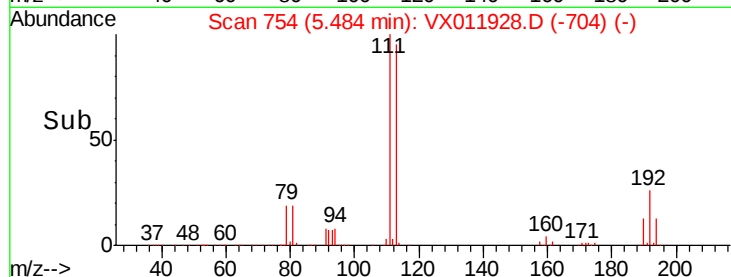
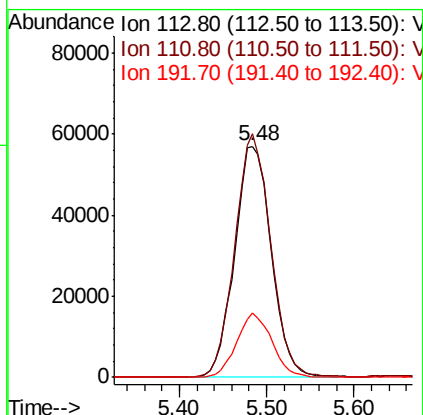
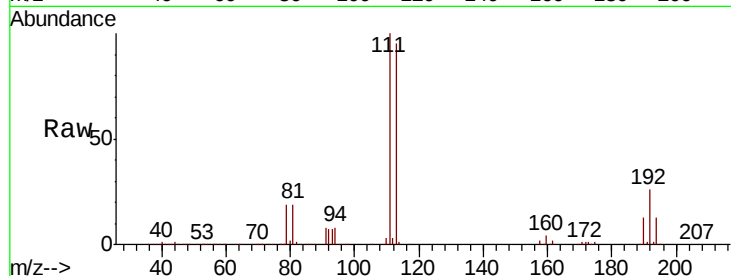




#35  
 Dibromofluoromethane  
 Concen: 45.855 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. 0.00 min  
 Lab File: VX011928.D  
 Acq: 31 Aug 2019 01:51

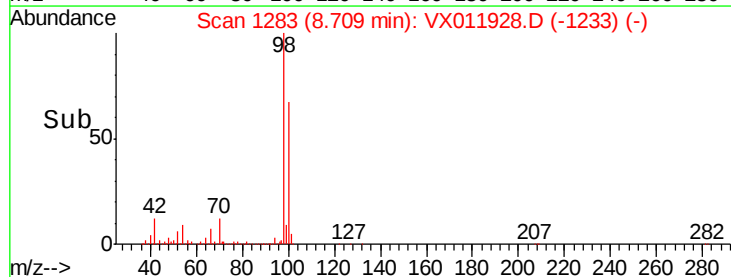
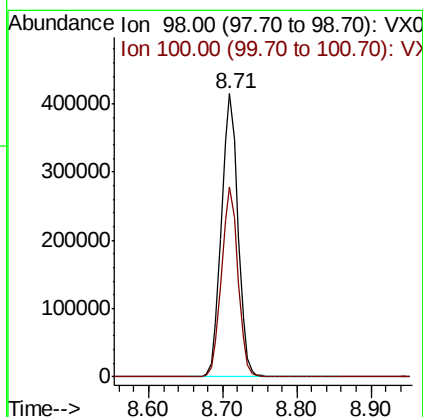
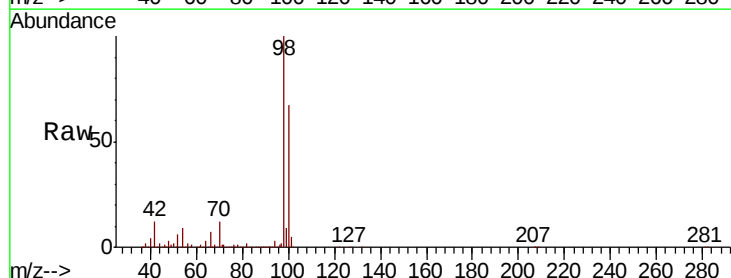
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T6-S3-(0)

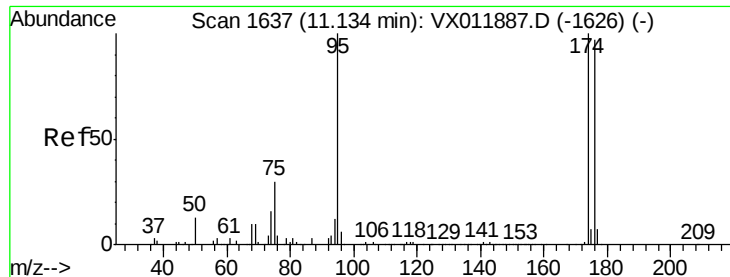
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.7 | 82.1  | 123.1 |
| 192     | 26.8  | 21.5  | 32.3  |



#50  
 Toluene-d8  
 Concen: 49.330 ug/l  
 RT: 8.71 min Scan# 1283  
 Delta R.T. 0.00 min  
 Lab File: VX011928.D  
 Acq: 31 Aug 2019 01:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.5  | 53.0  | 79.6  |

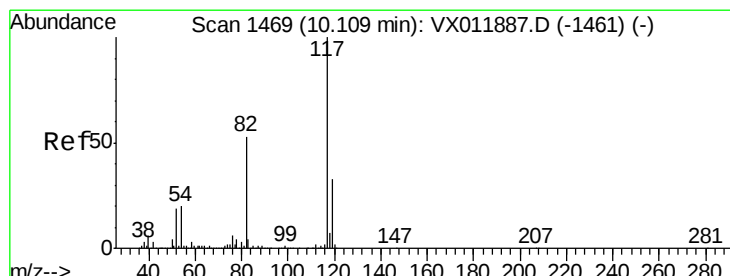
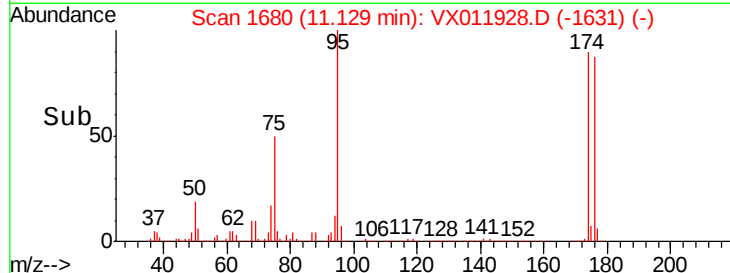
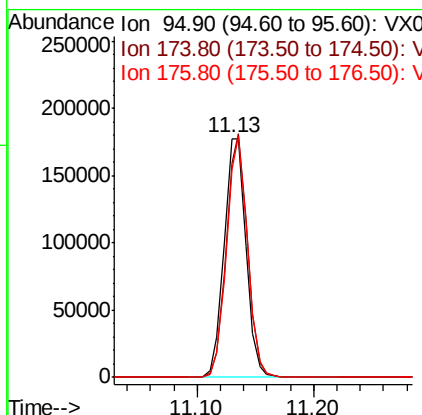
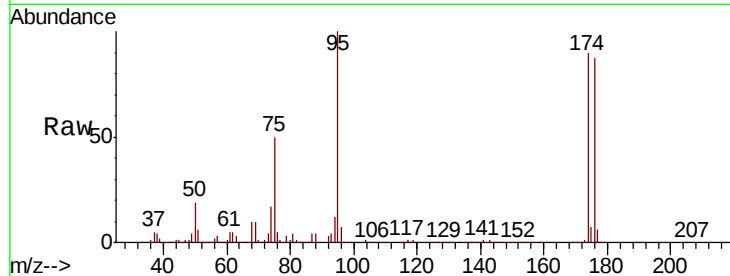




#62  
4-Bromofluorobenzene  
Concen: 40.605 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.00 min  
Lab File: VX011928.D  
Acq: 31 Aug 2019 01:51

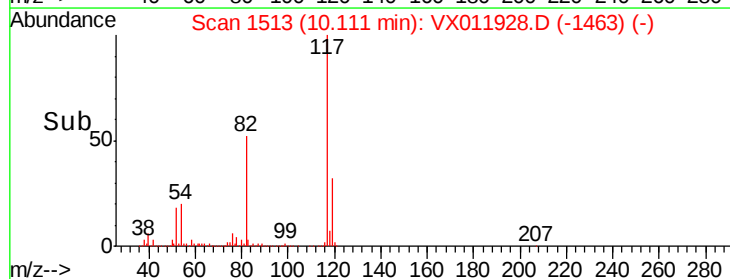
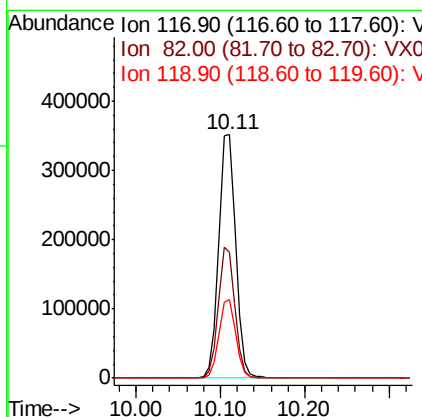
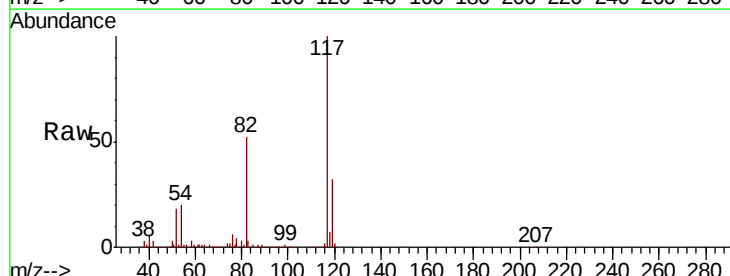
Instrument :  
MSVOA\_X  
ClientSampleId :  
T6-S3-(0)

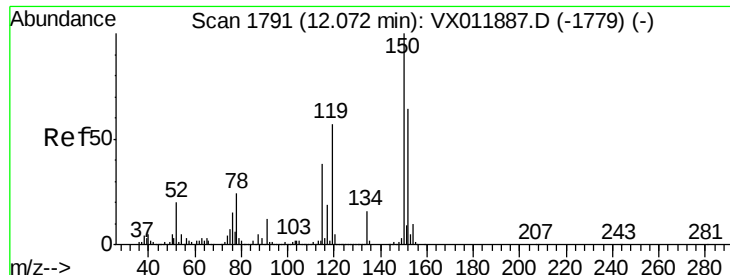
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 98.2  | 0.0   | 196.0 |
| 176     | 96.2  | 0.0   | 191.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX011928.D  
Acq: 31 Aug 2019 01:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.6  | 42.0  | 63.0  |
| 119     | 32.2  | 26.2  | 39.4  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX011928.D

Acq: 31 Aug 2019 01:51

Instrument :

MSVOA\_X

ClientSampleId :

T6-S3-(0)

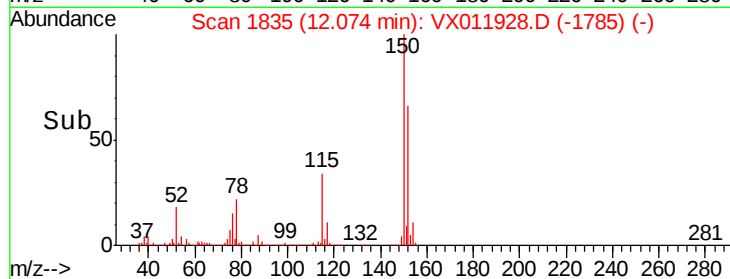
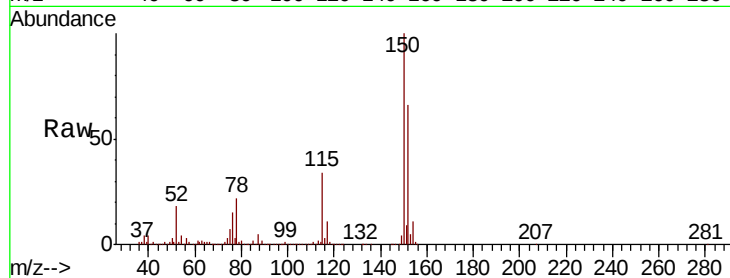
Tot Ion:152 Resp: 251562

Ion Ratio Lower Upper

152 100

115 52.9 37.1 111.3

150 153.7 0.0 339.6



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

