

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083119\  
 Data File : VX011970.D  
 Acq On : 01 Sep 2019 01:12  
 Operator : SY/SP  
 Sample : K4526-12  
 Misc : 5.57g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-F3-(1.9)

Quant Time: Sep 01 04:02:45 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

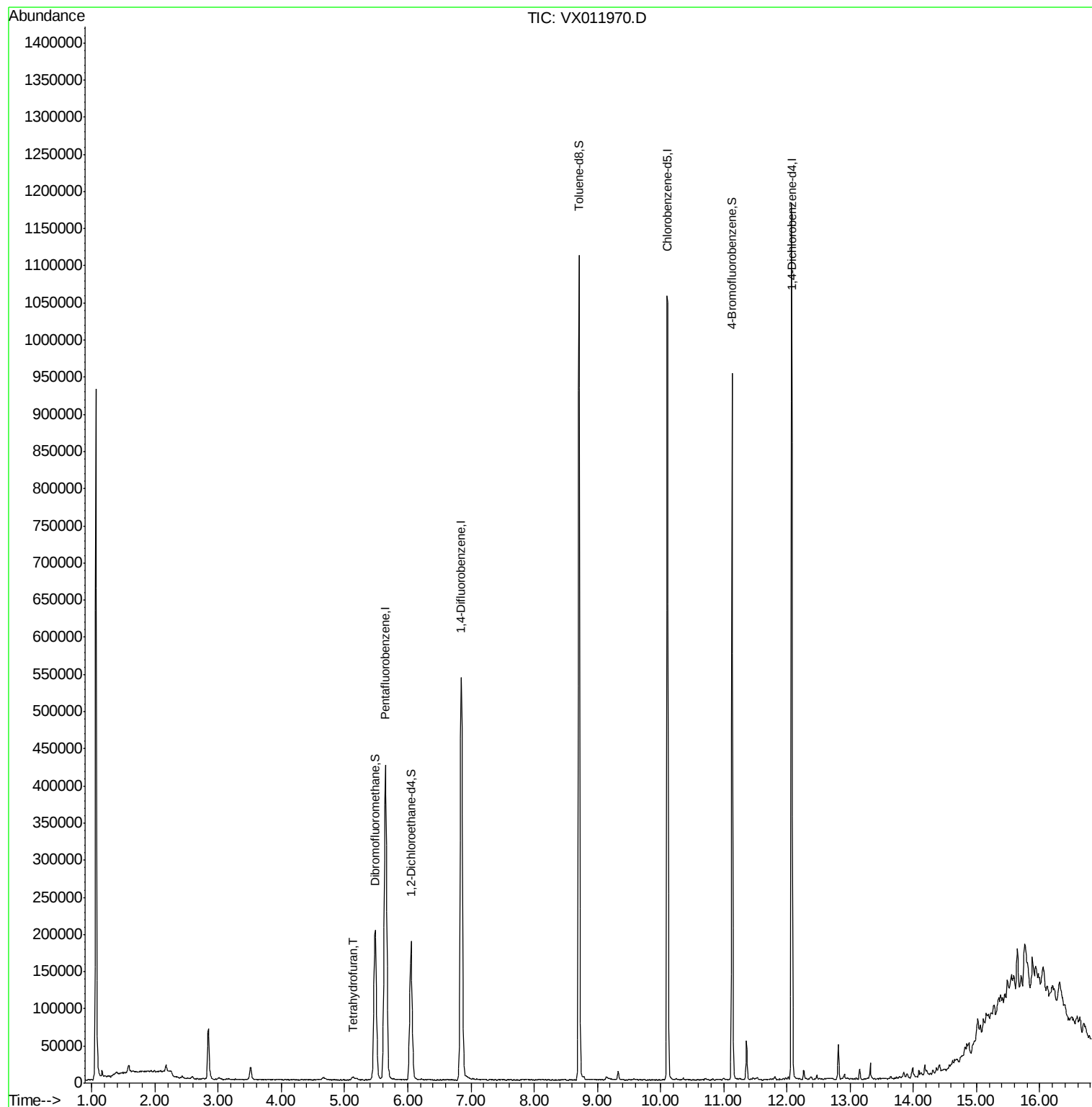
| Internal Standards          | R.T.   | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|--------|------|----------|-------|--------|-----------|
| 1) Pentafluorobenzene       | 5.65   | 168  | 458801   | 50.00 | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene     | 6.85   | 114  | 576035   | 50.00 | ug/l   | 0.00      |
| 63) Chlorobenzene-d5        | 10.11  | 117  | 501396   | 50.00 | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 12.07  | 152  | 256964   | 50.00 | ug/l   | 0.00      |
| System Monitoring Compounds |        |      |          |       |        |           |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65   | 181044   | 41.19 | ug/l   | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 82.38% |           |
| 35) Dibromofluoromethane    | 5.48   | 113  | 165342   | 44.76 | ug/l   | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 89.52% |           |
| 50) Toluene-d8              | 8.71   | 98   | 647186   | 49.01 | ug/l   | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 98.02% |           |
| 62) 4-Bromofluorobenzene    | 11.13  | 95   | 235333   | 40.63 | ug/l   | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 81.26% |           |
| Target Compounds            |        |      |          |       |        |           |
| 29) Tetrahydrofuran         | 5.14   | 42   | 4348     | 5.057 | ug/l # | Qvalue 85 |

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

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MSVOA\_X  
ClientSampleId :  
T9-12-13-F3-(1.9)

Quant Time: Sep 01 04:02:45 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: VX011970.D

Acq: 01 Sep 2019 01:12

Instrument :

MSVOA\_X

ClientSampleId :

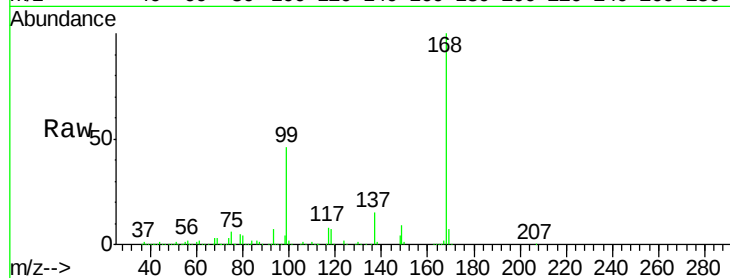
T9-12-13-F3-(1.9)

Tot Ion:168 Resp: 458801

Ion Ratio Lower Upper

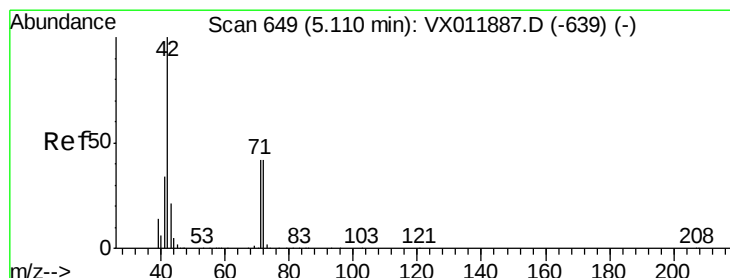
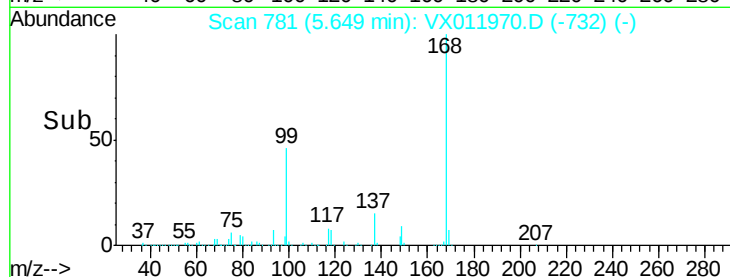
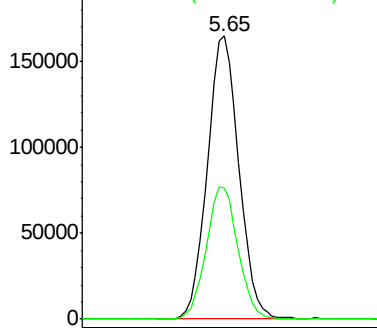
168 100

99 46.1 38.4 57.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#29

Tetrahydrofuran

Concen: 5.057 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.03 min

Lab File: VX011970.D

Acq: 01 Sep 2019 01:12

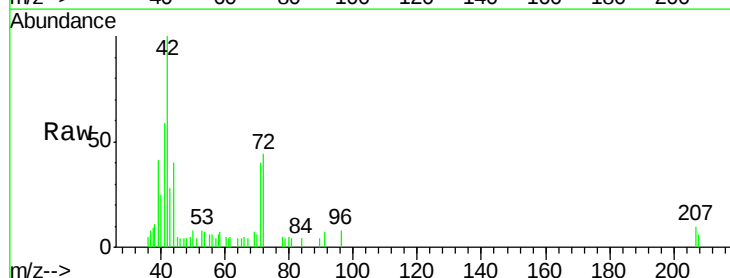
Tgt Ion: 42 Resp: 4348

Ion Ratio Lower Upper

42 100

72 53.9 36.2 54.4

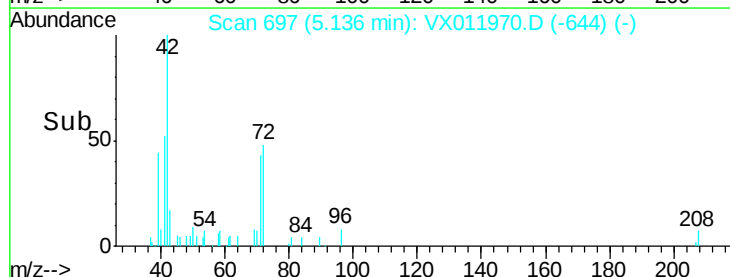
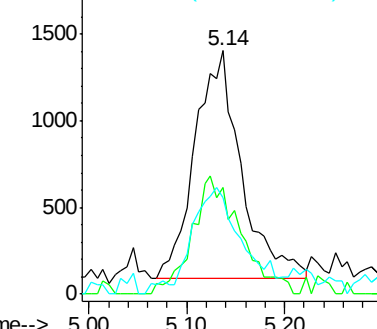
71 52.5 33.1 49.7#

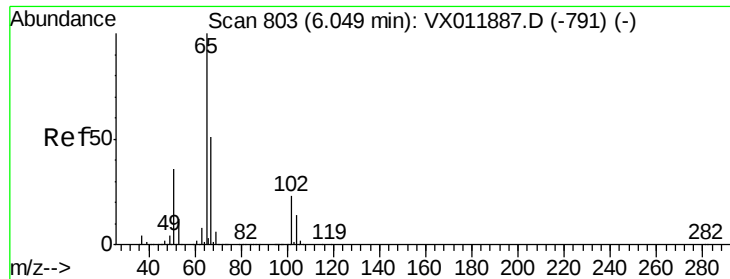


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

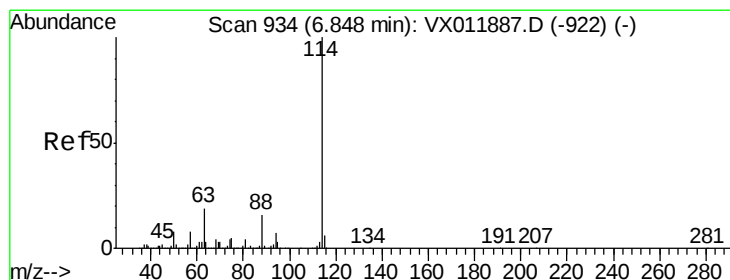
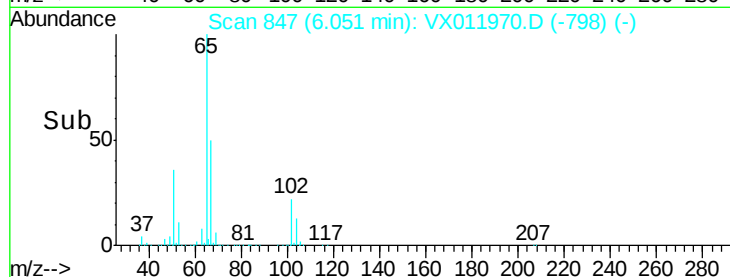
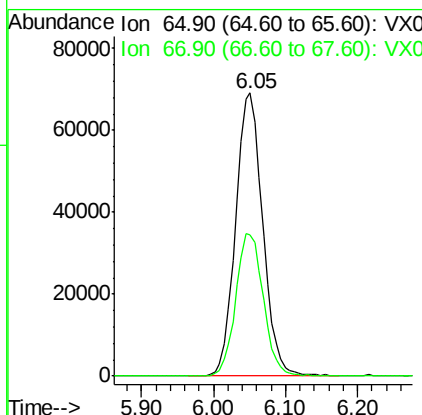
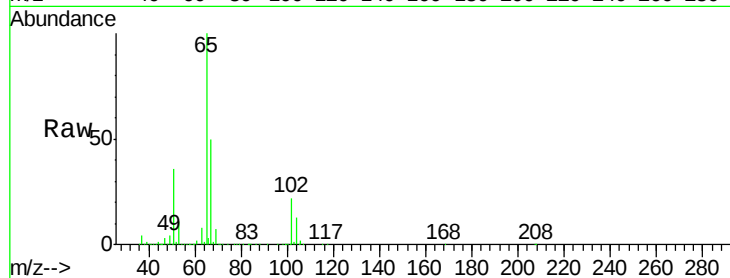




#33  
 1,2-Dichloroethane-d4  
 Concen: 41.186 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX011970.D  
 Acq: 01 Sep 2019 01:12

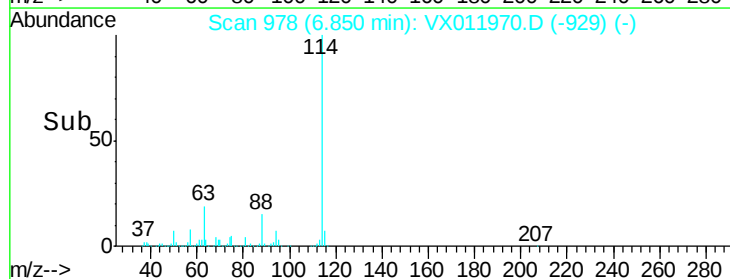
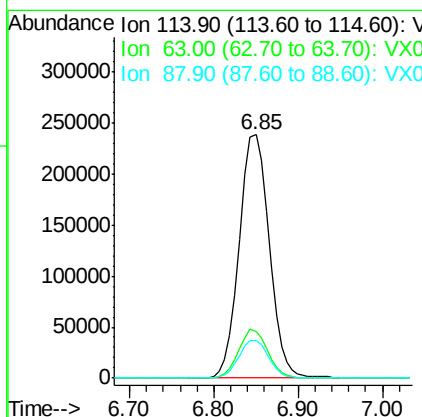
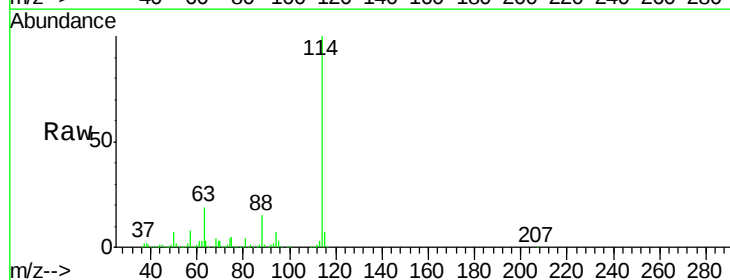
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-F3-(1.9)

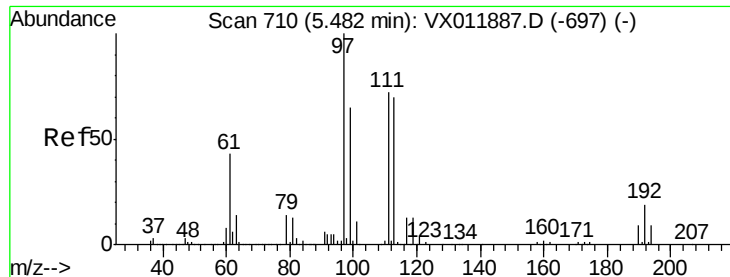
Tot Ion: 65 Resp: 181044  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 102.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX011970.D  
 Acq: 01 Sep 2019 01:12

Tgt Ion: 114 Resp: 576035  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 38.8  
 88 15.4 0.0 31.2

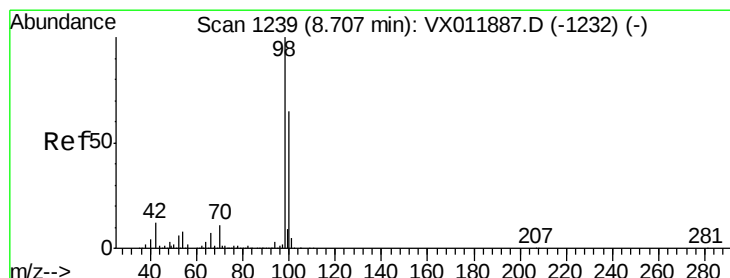
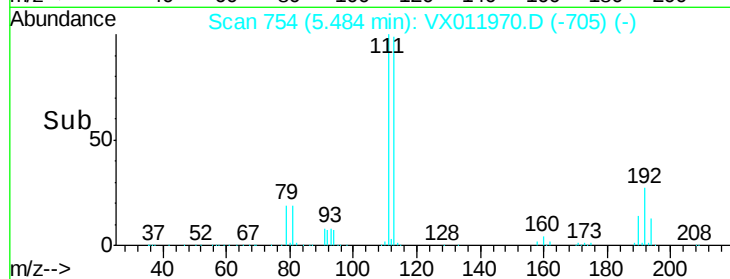
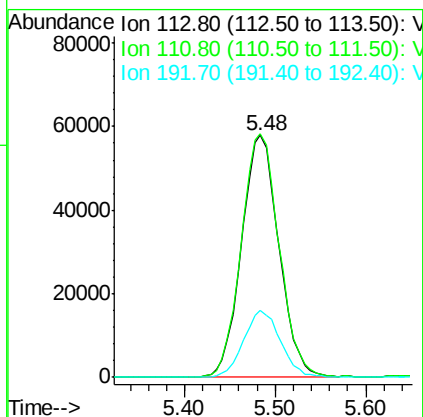
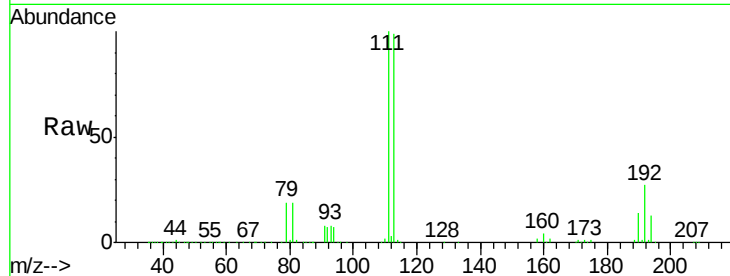




#35  
 Dibromofluoromethane  
 Concen: 44.762 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. 0.00 min  
 Lab File: VX011970.D  
 Acq: 01 Sep 2019 01:12

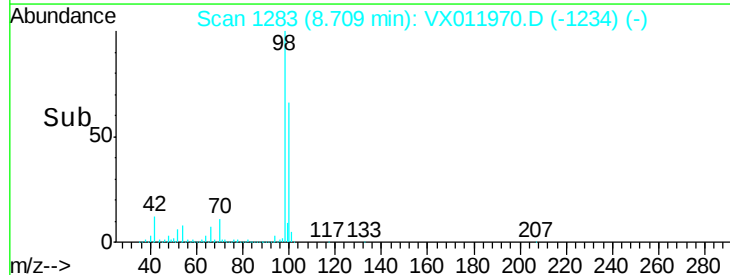
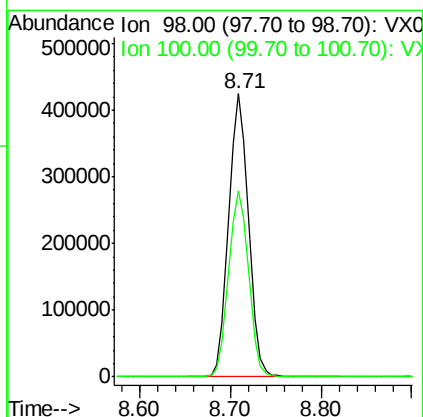
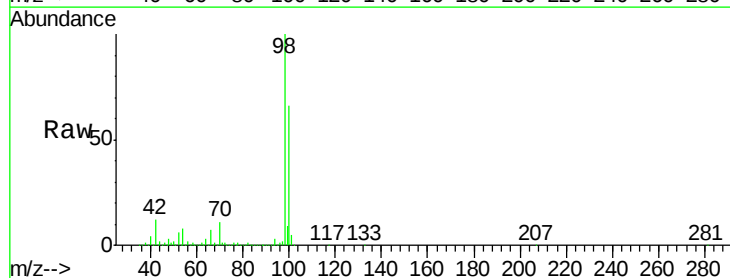
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-F3-(1.9)

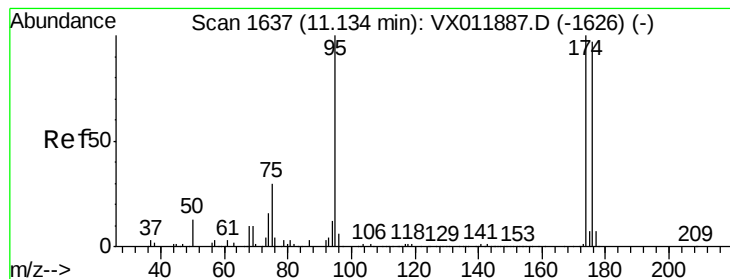
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 82.1  | 123.1 |
| 192     | 27.4  | 21.5  | 32.3  |



#50  
 Toluene-d8  
 Concen: 49.014 ug/l  
 RT: 8.71 min Scan# 1283  
 Delta R.T. 0.00 min  
 Lab File: VX011970.D  
 Acq: 01 Sep 2019 01:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.3  | 53.0  | 79.6  |





#62

4-Bromofluorobenzene

Concen: 40.630 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX011970.D

Acq: 01 Sep 2019 01:12

Instrument :

MSVOA\_X

ClientSampleId :

T9-12-13-F3-(1.9)

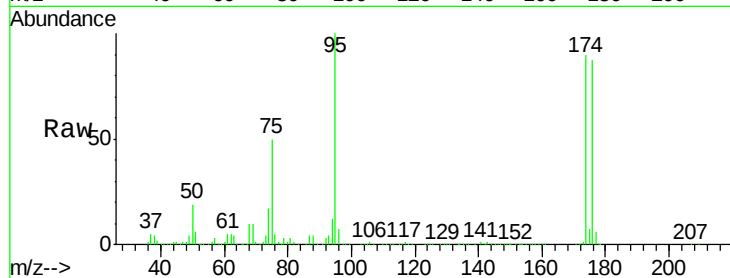
Tot Ion: 95 Resp: 235333

Ion Ratio Lower Upper

95 100

174 100.0 0.0 196.0

176 96.5 0.0 191.4

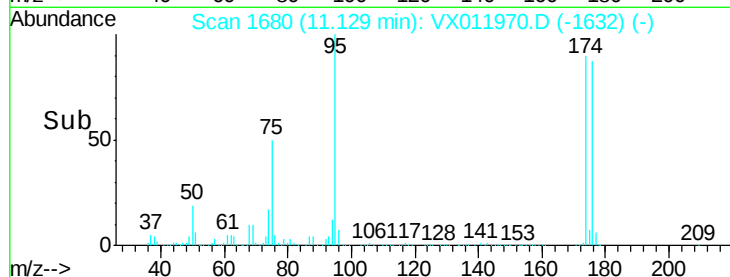


Abundance Ion 94.90 (94.60 to 95.60): VX011887.D (-1626) (-)

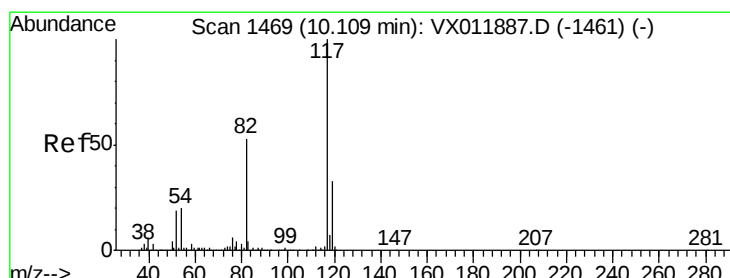
Ion 173.80 (173.50 to 174.50): VX011887.D (-1626) (-)

Ion 175.80 (175.50 to 176.50): VX011887.D (-1626) (-)

Time--> 11.00 11.10 11.20



Time--> 11.00 11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX011970.D

Acq: 01 Sep 2019 01:12

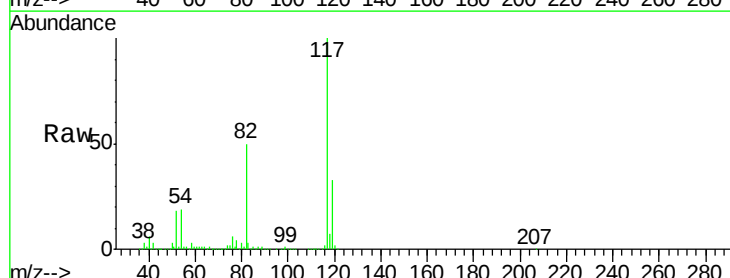
Tgt Ion: 117 Resp: 501396

Ion Ratio Lower Upper

117 100

82 50.4 42.0 63.0

119 32.7 26.2 39.4

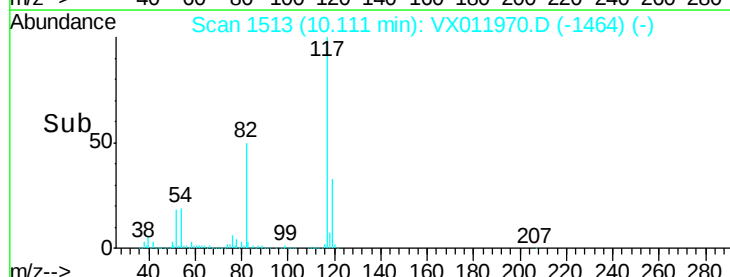


Abundance Ion 116.90 (116.60 to 117.60): VX011887.D (-1461) (-)

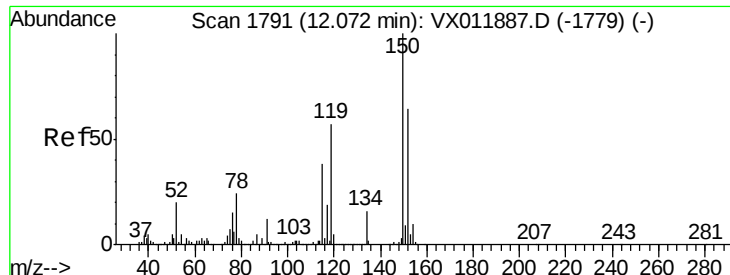
Ion 82.00 (81.70 to 82.70): VX011887.D (-1461) (-)

Ion 118.90 (118.60 to 119.60): VX011887.D (-1461) (-)

Time--> 10.00 10.10 10.20



Time--> 10.00 10.10 10.20



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX011970.D

Acq: 01 Sep 2019 01:12

Instrument :

MSVOA\_X

ClientSampleId :

T9-12-13-F3-(1.9)

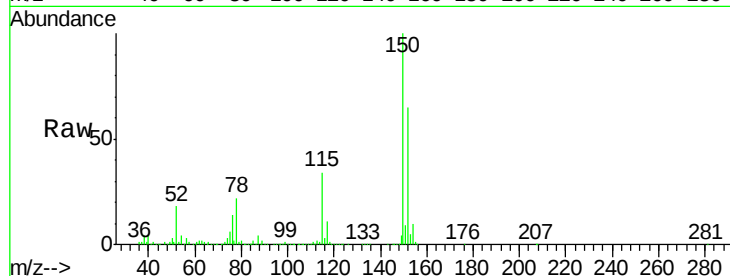
Tot Ion:152 Resp: 256964

Ion Ratio Lower Upper

152 100

115 52.5 37.1 111.3

150 153.3 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

