

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083019\  
 Data File : VX011910.D  
 Acq On : 30 Aug 2019 15:30  
 Operator : SY/SP  
 Sample : K4475-05  
 Misc : 5.17g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T1-2-D-(0)

Quant Time: Aug 31 02:21:32 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

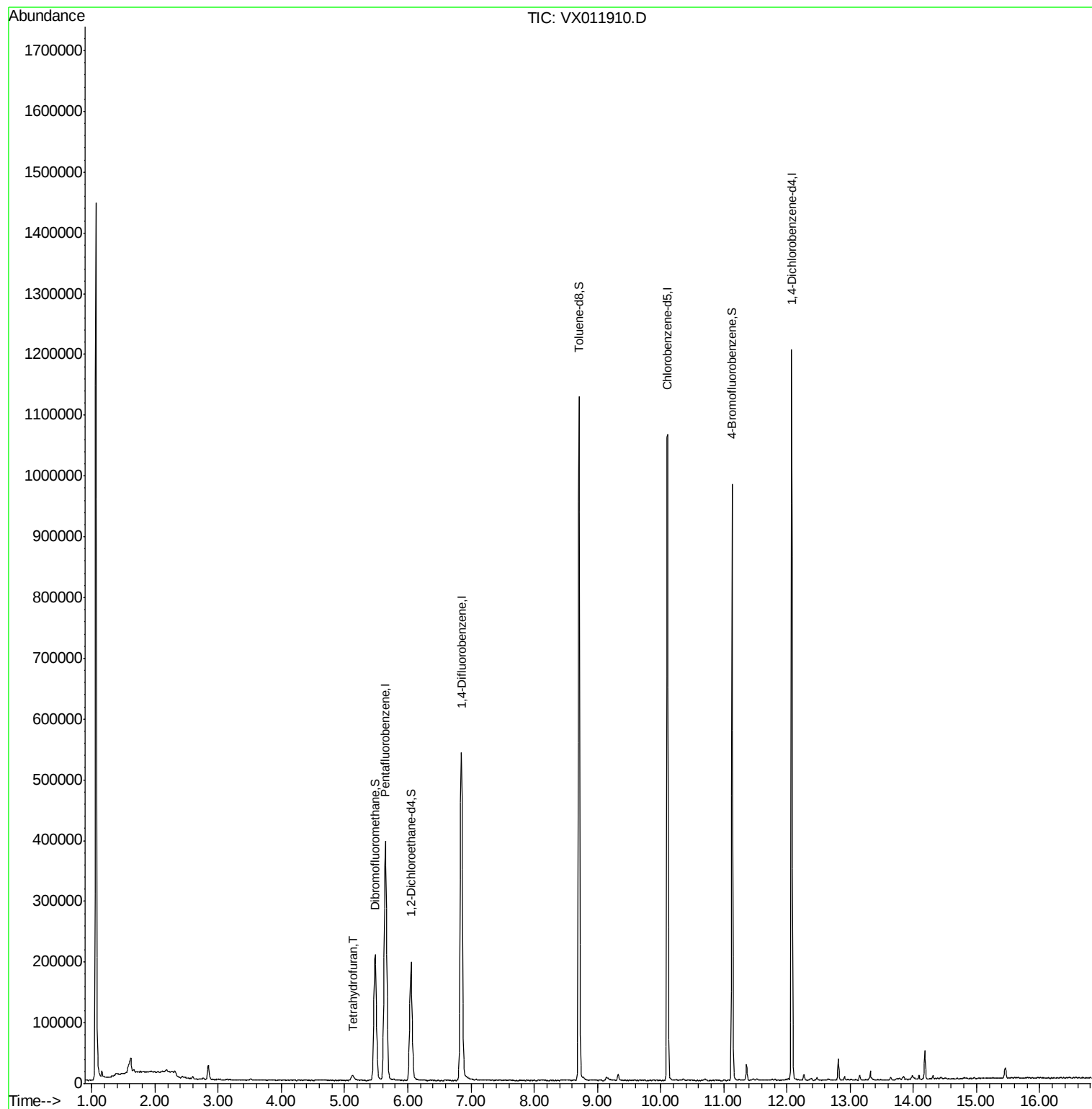
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|---------|-----------|
| 1) Pentafluorobenzene       | 5.65  | 168  | 425074   | 50.00  | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 6.85  | 114  | 566342   | 50.00  | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 508743   | 50.00  | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 12.07 | 152  | 254463   | 50.00  | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |        |         |           |
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 190473   | 46.77  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 93.54%  |           |
| 35) Dibromofluoromethane    | 5.48  | 113  | 170504   | 46.95  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 93.90%  |           |
| 50) Toluene-d8              | 8.71  | 98   | 657167   | 50.62  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.24% |           |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 237646   | 41.73  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 83.46%  |           |
| Target Compounds            |       |      |          |        |         |           |
| 29) Tetrahydrofuran         | 5.13  | 42   | 8676     | 10.892 | ug/l    | Qvalue 93 |

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

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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: VX011910.D

Acq: 30 Aug 2019 15:30

Instrument :

MSVOA\_X

ClientSampleId :

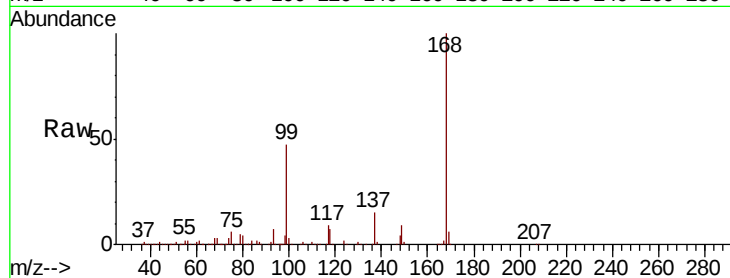
T1-2-D-(0)

Tot Ion:168 Resp: 425074

Ion Ratio Lower Upper

168 100

99 47.2 38.4 57.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

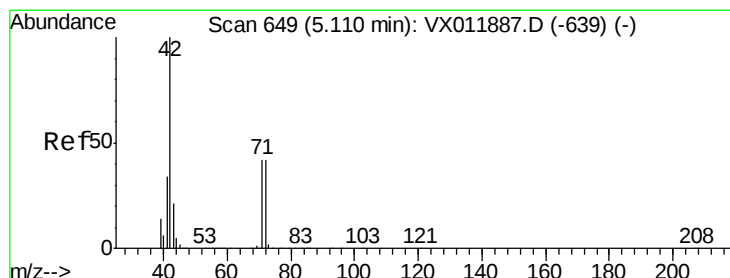
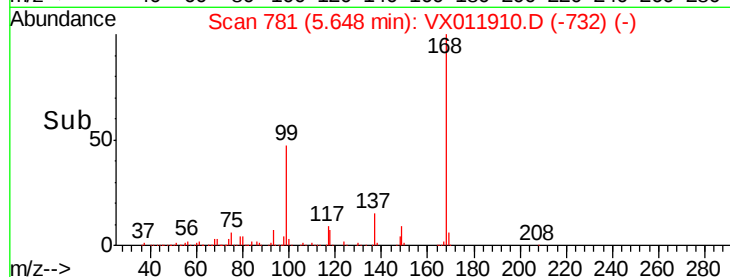
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#29

Tetrahydrofuran

Concen: 10.892 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX011910.D

Acq: 30 Aug 2019 15:30

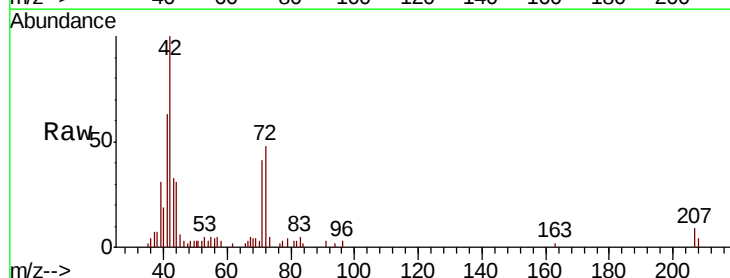
Tgt Ion: 42 Resp: 8676

Ion Ratio Lower Upper

42 100

72 47.3 36.2 54.4

71 48.3 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

5.13

3000

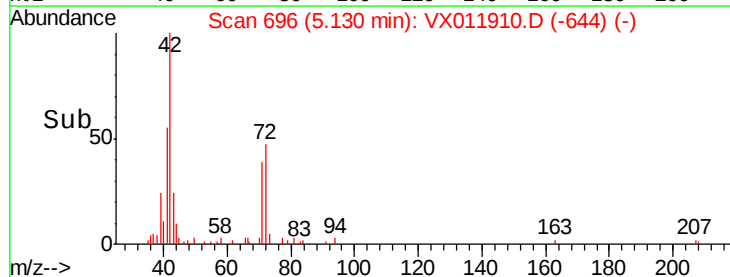
2000

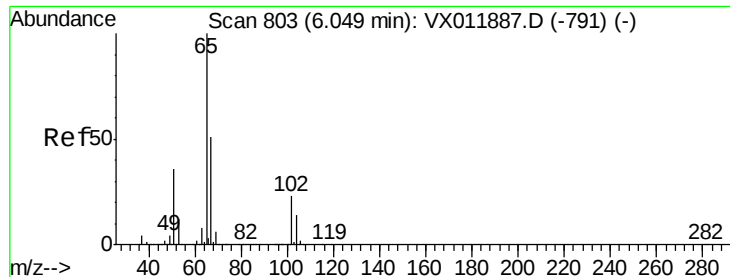
1000

0

Time-->

5.00 5.10 5.20





#33

1,2-Dichloroethane-d4

Concen: 46.769 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX011910.D

Acq: 30 Aug 2019 15:30

Instrument :

MSVOA\_X

ClientSampleId :

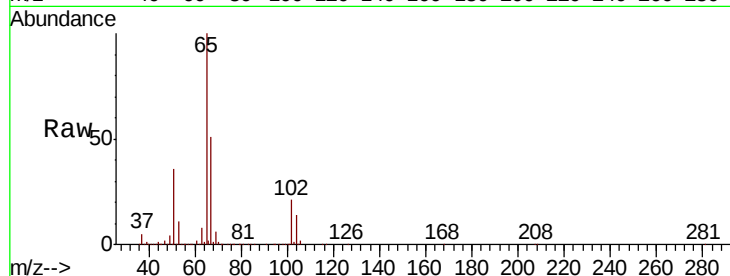
T1-2-D-(0)

Tot Ion: 65 Resp: 190473

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

80000

60000

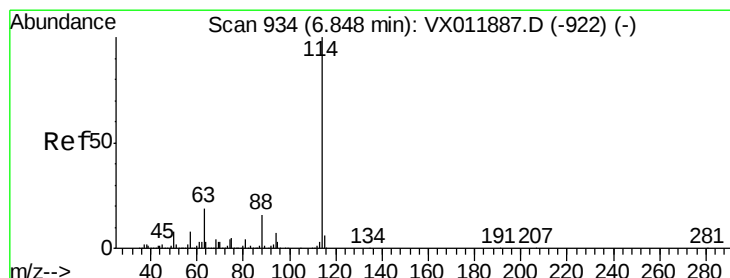
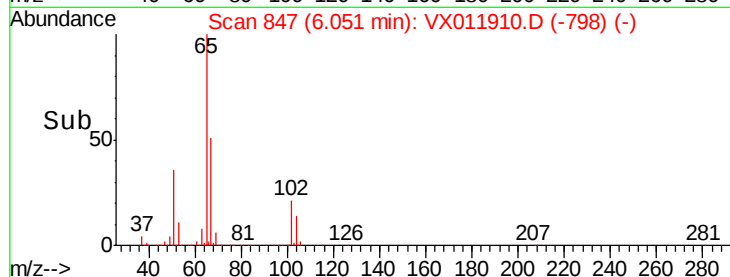
40000

20000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX011910.D

Acq: 30 Aug 2019 15:30

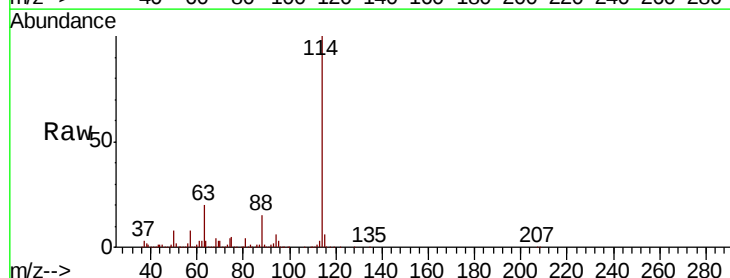
Tgt Ion: 114 Resp: 566342

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.8

88 15.2 0.0 31.2



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

6.85

300000

250000

200000

150000

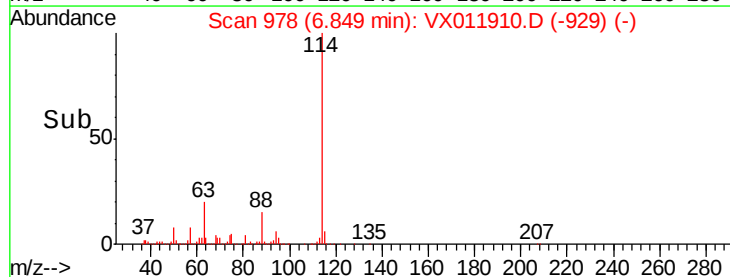
100000

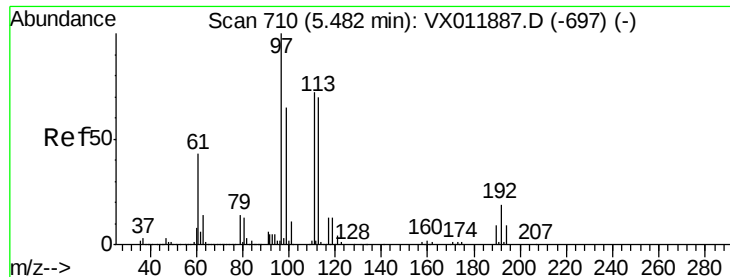
50000

0

6.70 6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 46.950 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX011910.D

Acq: 30 Aug 2019 15:30

Instrument :

MSVOA\_X

ClientSampleId :

T1-2-D-(0)

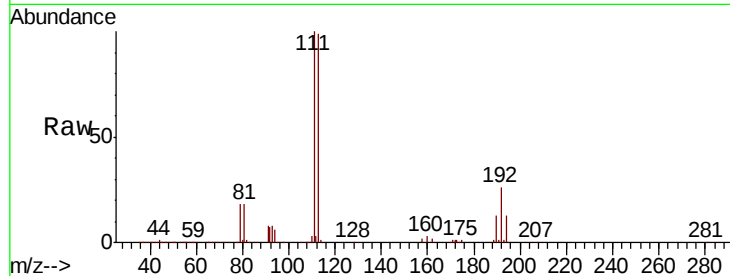
Tot Ion:113 Resp: 170504

Ion Ratio Lower Upper

113 100

111 101.9 82.1 123.1

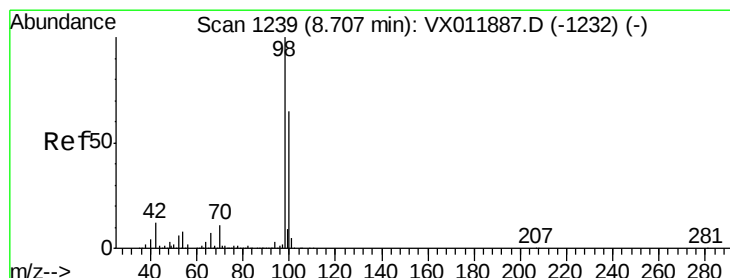
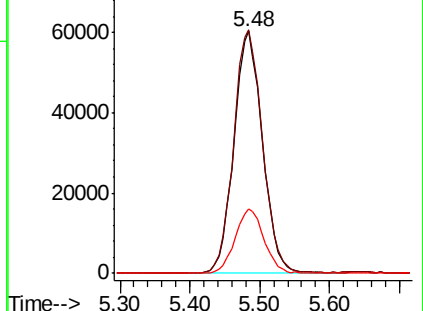
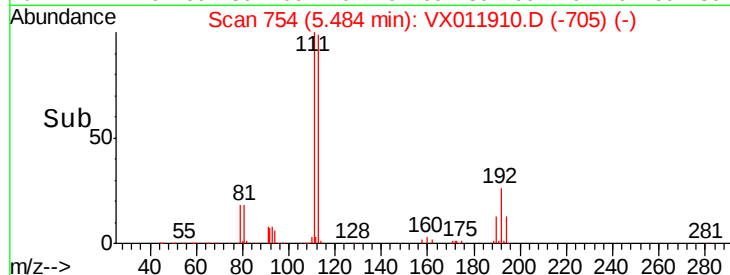
192 26.9 21.5 32.3



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: 50.622 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX011910.D

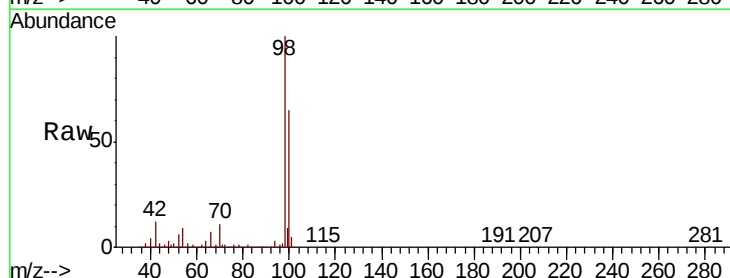
Acq: 30 Aug 2019 15:30

Tgt Ion: 98 Resp: 657167

Ion Ratio Lower Upper

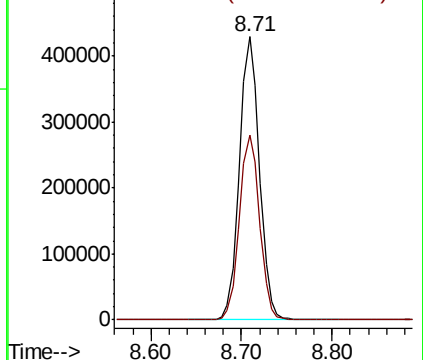
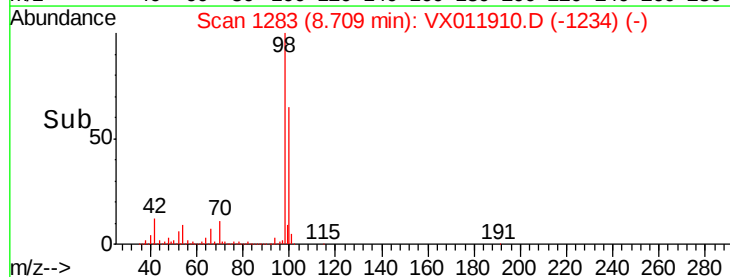
98 100

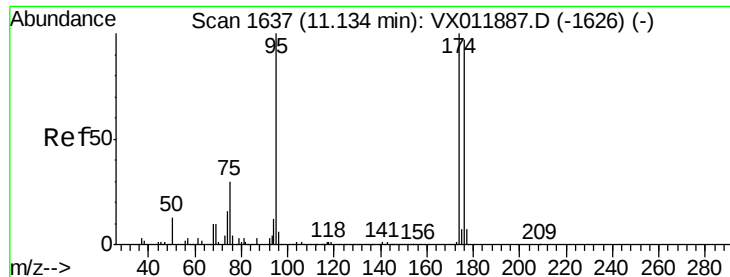
100 66.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 41.731 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX011910.D

Acq: 30 Aug 2019 15:30

Instrument :

MSVOA\_X

ClientSampled :

T1-2-D-(0)

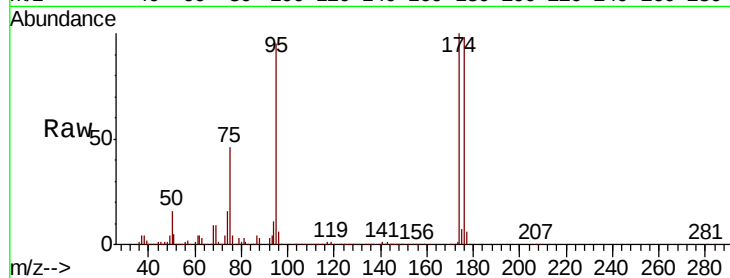
Tot Ion: 95 Resp: 237646

Ion Ratio Lower Upper

95 100

174 98.8 0.0 196.0

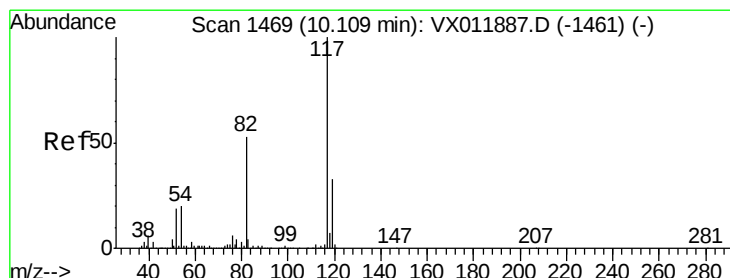
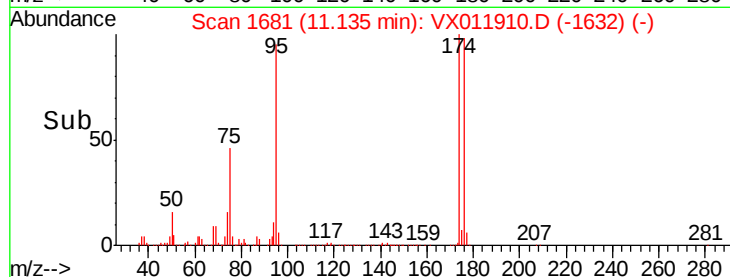
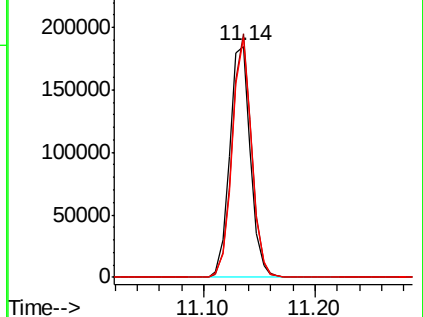
176 96.7 0.0 191.4



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX011910.D

Acq: 30 Aug 2019 15:30

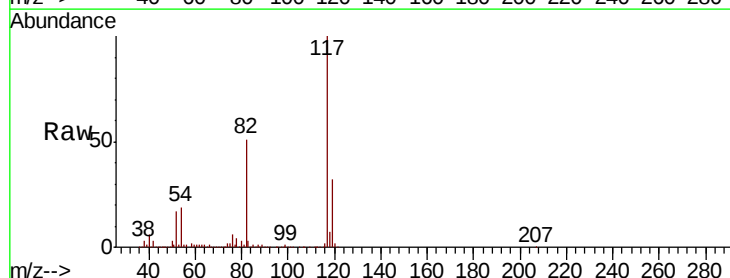
Tgt Ion: 117 Resp: 508743

Ion Ratio Lower Upper

117 100

82 50.6 42.0 63.0

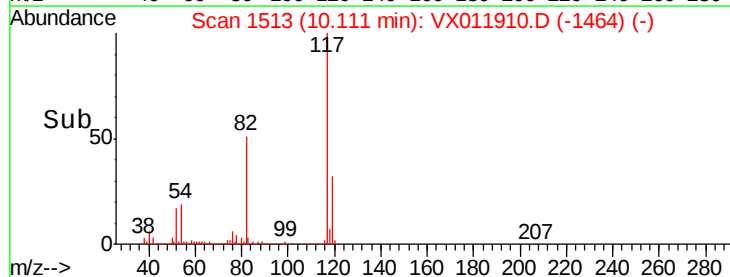
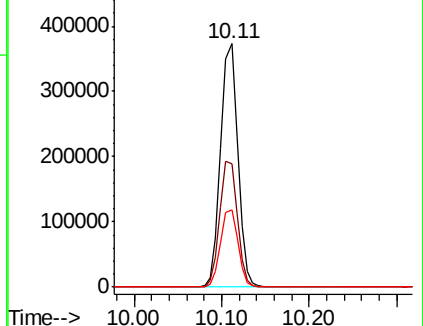
119 31.6 26.2 39.4

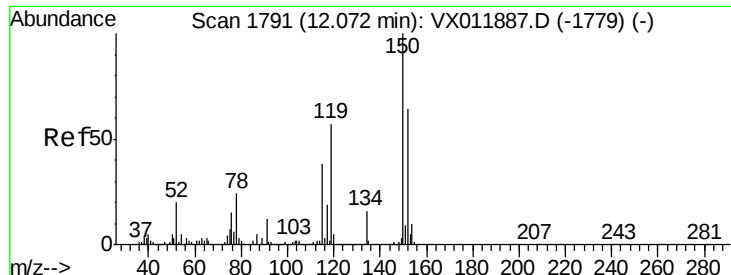


Abundance Ion 116.90 (116.60 to 117.60): VX011887.D (-1461) (-)

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

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

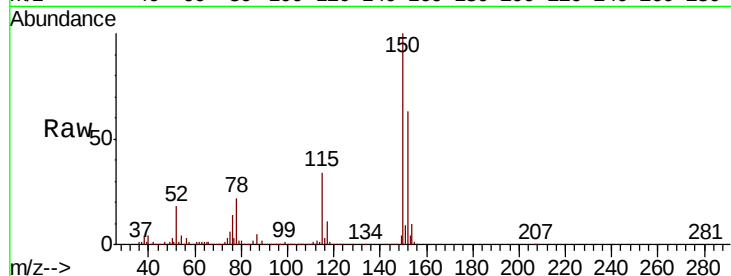




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.07 min Scan# 1835  
 Delta R.T. 0.00 min  
 Lab File: VX011910.D  
 Acq: 30 Aug 2019 15:30

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T1-2-D-(0)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 53.5  | 37.1  | 111.3 |
| 150     | 155.9 | 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

