

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083119\  
 Data File : VX011980.D  
 Acq On : 01 Sep 2019 05:53  
 Operator : SY/SP  
 Sample : K4527-06  
 Misc : 5.77g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-N1-(0)

Quant Time: Sep 01 06:32:05 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

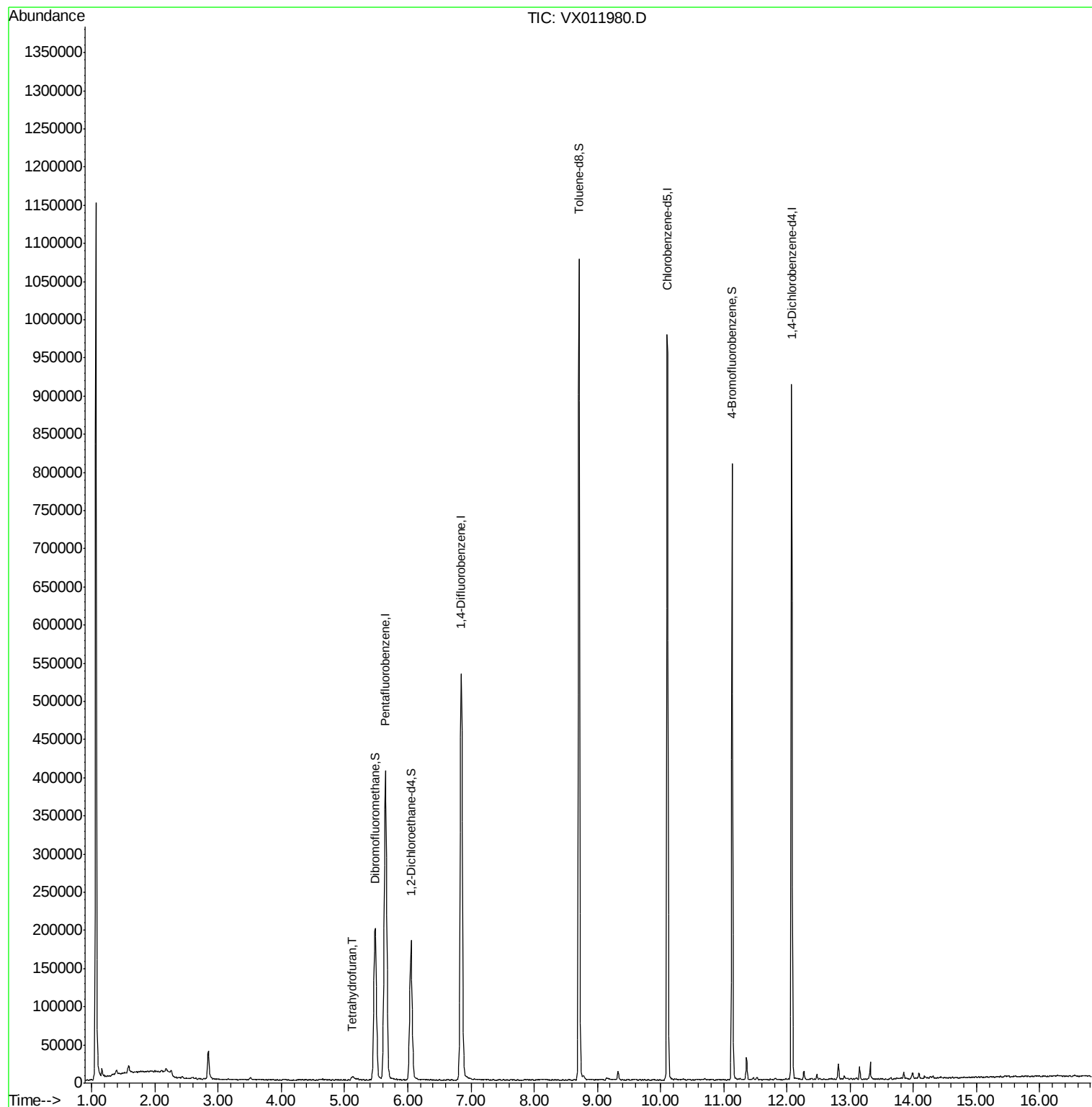
| Internal Standards          | R.T.   | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|--------|------|----------|-------|--------|-----------|
| 1) Pentafluorobenzene       | 5.65   | 168  | 436266   | 50.00 | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene     | 6.85   | 114  | 562926   | 50.00 | ug/l   | 0.00      |
| 63) Chlorobenzene-d5        | 10.11  | 117  | 466086   | 50.00 | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 12.07  | 152  | 197461   | 50.00 | ug/l   | 0.00      |
| System Monitoring Compounds |        |      |          |       |        |           |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65   | 178882   | 42.80 | ug/l   | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 85.60% |           |
| 35) Dibromofluoromethane    | 5.48   | 113  | 165299   | 45.79 | ug/l   | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 91.58% |           |
| 50) Toluene-d8              | 8.71   | 98   | 622183   | 48.22 | ug/l   | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 96.44% |           |
| 62) 4-Bromofluorobenzene    | 11.14  | 95   | 203110   | 35.88 | ug/l   | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 71.76% |           |
| Target Compounds            |        |      |          |       |        |           |
| 29) Tetrahydrofuran         | 5.12   | 42   | 4646     | 5.683 | ug/l # | Qvalue 81 |

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

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T9-12-13-N1-(0)

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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: VX011980.D

Acq: 01 Sep 2019 05:53

Instrument :

MSVOA\_X

ClientSampleId :

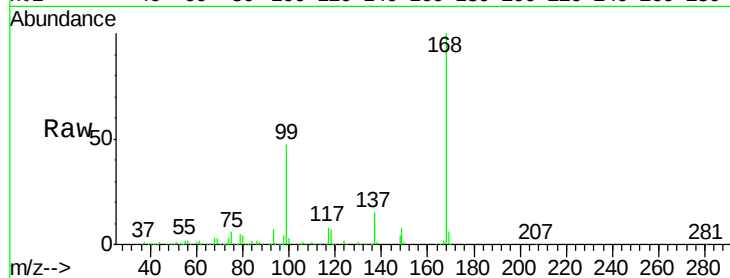
T9-12-13-N1-(0)

Tot Ion:168 Resp: 436266

Ion Ratio Lower Upper

168 100

99 46.7 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

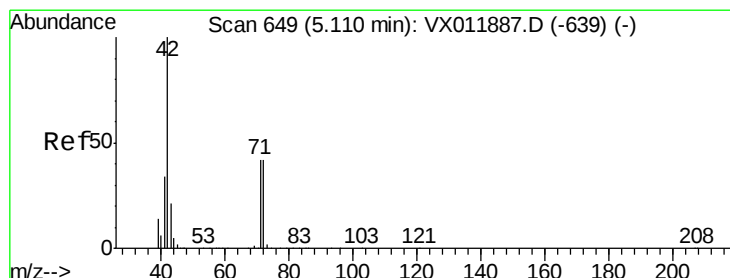
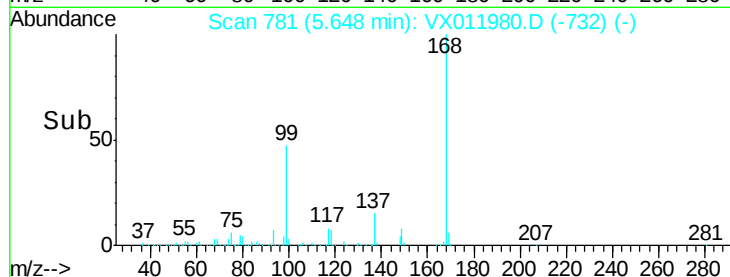
150000

100000

50000

0

Time-->



#29

Tetrahydrofuran

Concen: 5.683 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX011980.D

Acq: 01 Sep 2019 05:53

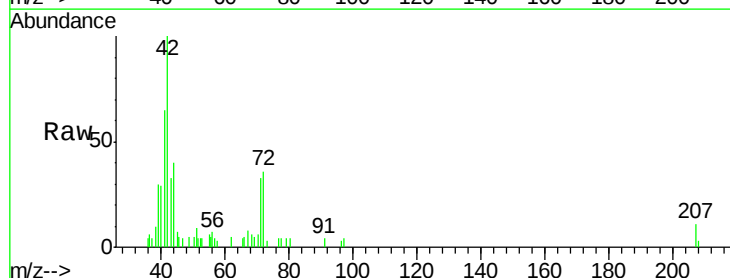
Tgt Ion: 42 Resp: 4646

Ion Ratio Lower Upper

42 100

72 51.8 36.2 54.4

71 22.6 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

2000

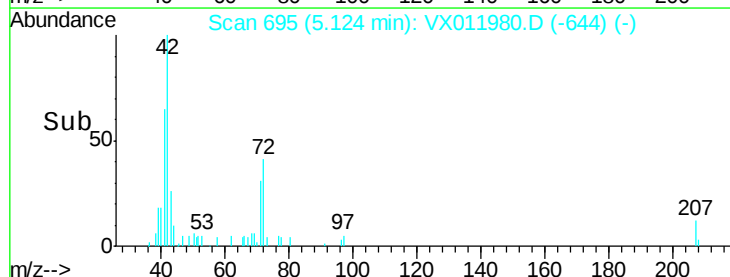
1500

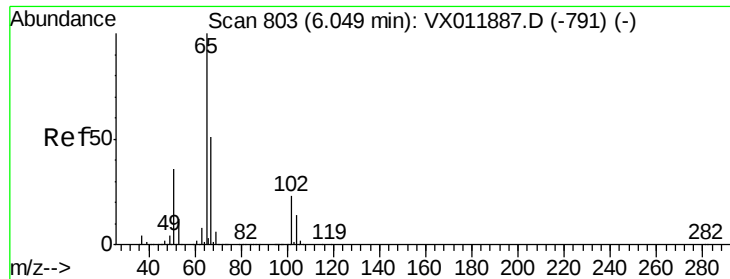
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 42.796 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX011980.D

Acq: 01 Sep 2019 05:53

Instrument :

MSVOA\_X

ClientSampleId :

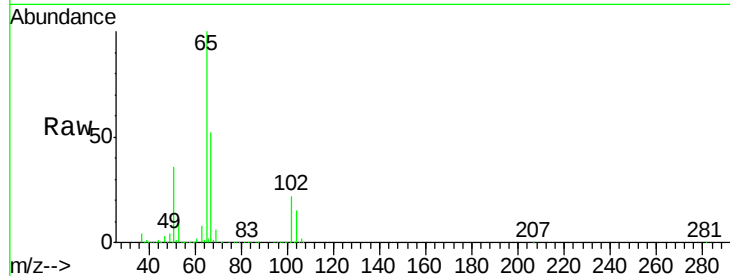
T9-12-13-N1-(0)

Tot Ion: 65 Resp: 178882

Ion Ratio Lower Upper

65 100

67 50.3 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

60000

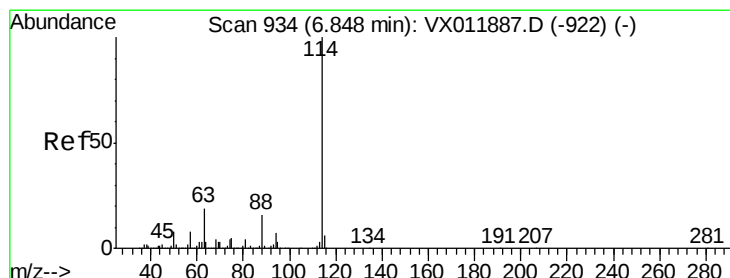
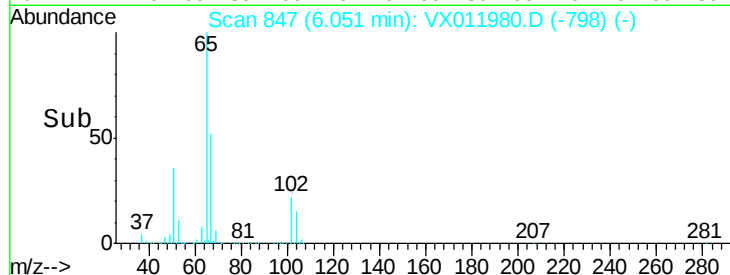
40000

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: VX011980.D

Acq: 01 Sep 2019 05:53

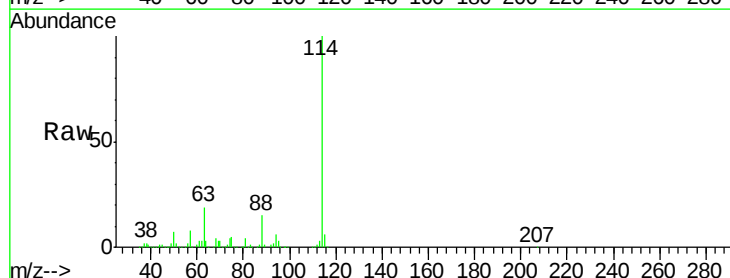
Tgt Ion: 114 Resp: 562926

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.8

88 15.4 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

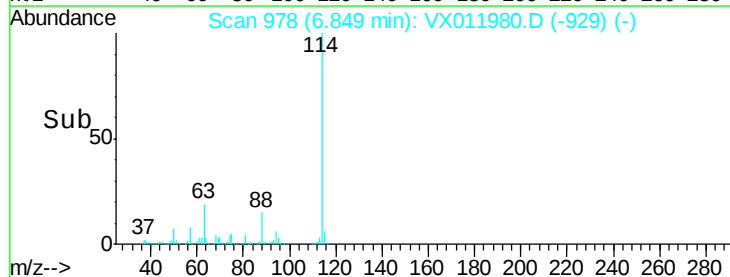
100000

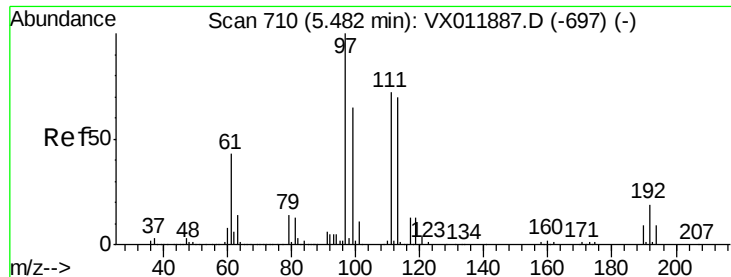
50000

0

6.70 6.80 6.90 7.00 7.10

Time-->

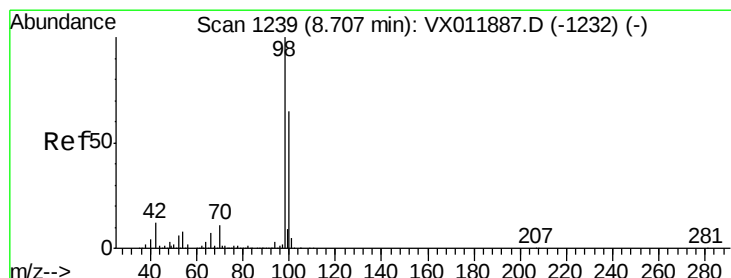
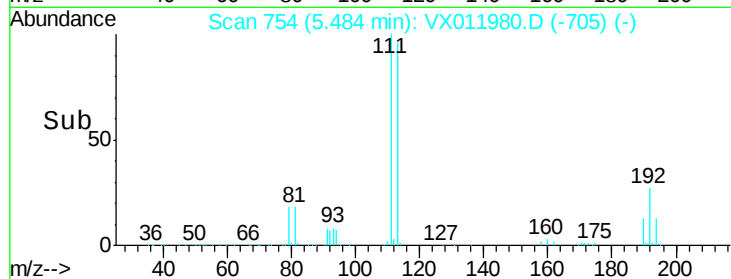
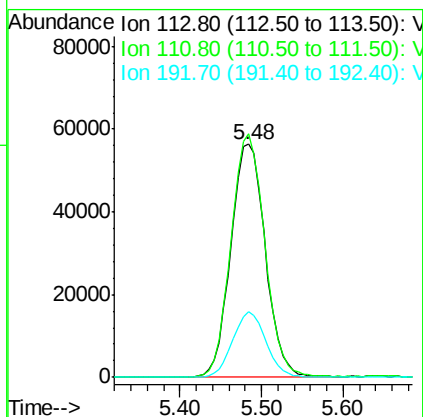
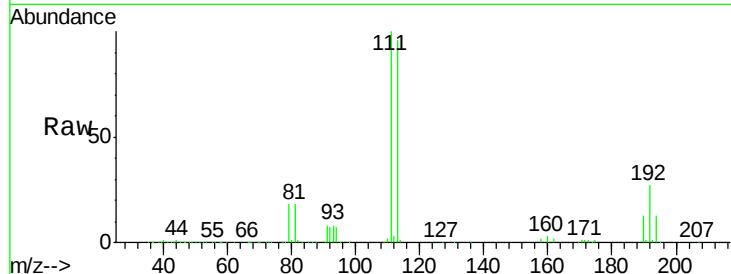




#35  
 Dibromofluoromethane  
 Concen: 45.793 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. 0.00 min  
 Lab File: VX011980.D  
 Acq: 01 Sep 2019 05:53

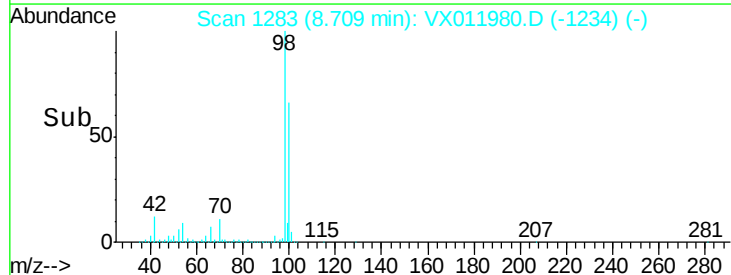
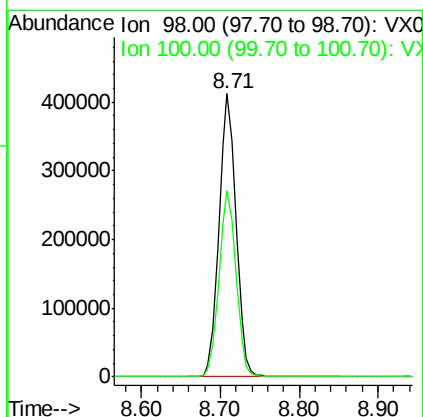
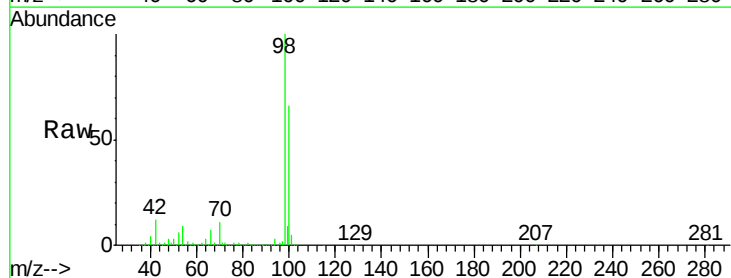
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-N1-(0)

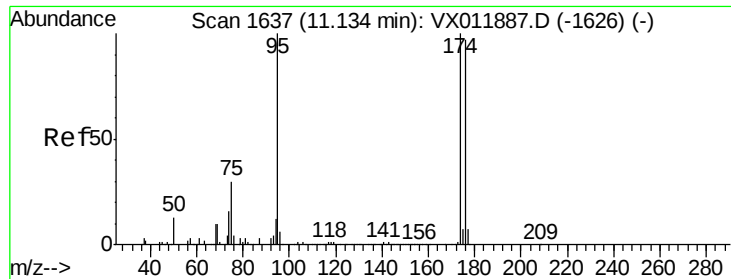
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 82.1  | 123.1 |
| 192     | 27.3  | 21.5  | 32.3  |



#50  
 Toluene-d8  
 Concen: 48.218 ug/l  
 RT: 8.71 min Scan# 1283  
 Delta R.T. 0.00 min  
 Lab File: VX011980.D  
 Acq: 01 Sep 2019 05:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.0  | 53.0  | 79.6  |

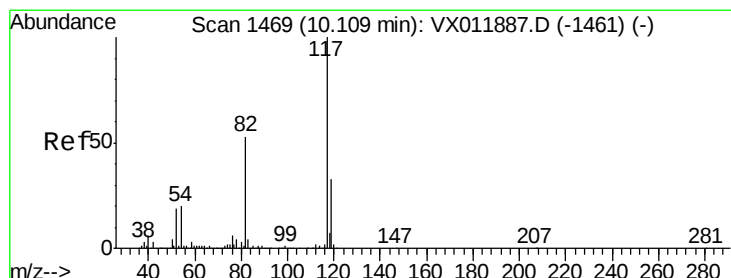
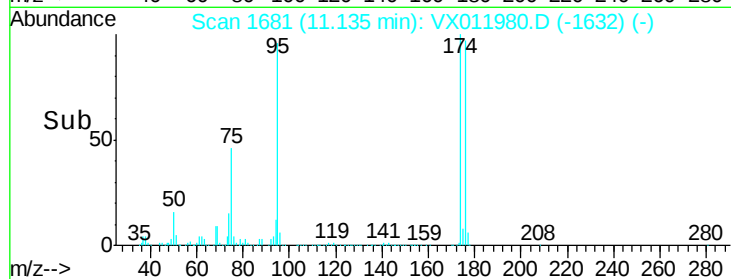
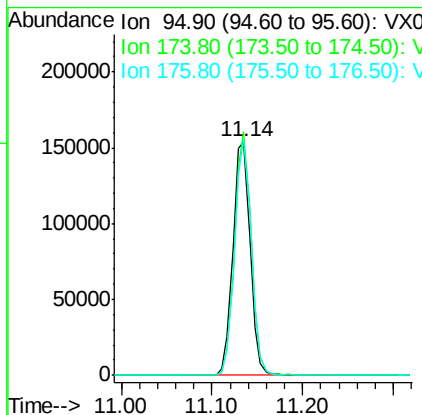
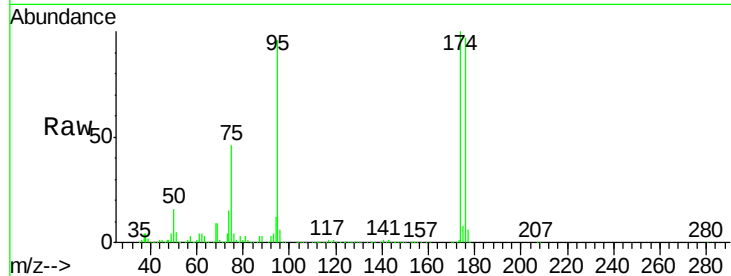




#62  
4-Bromofluorobenzene  
Concen: 35.883 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.00 min  
Lab File: VX011980.D  
Acq: 01 Sep 2019 05:53

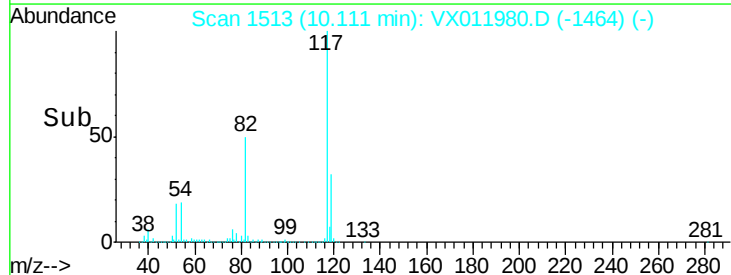
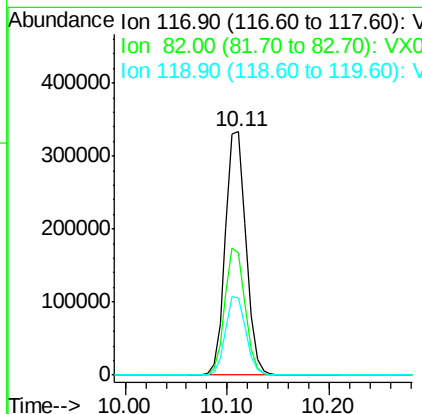
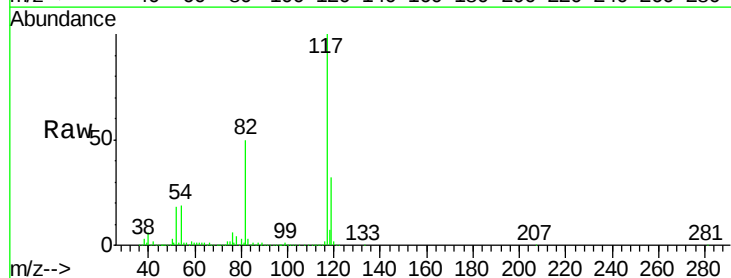
Instrument :  
MSVOA\_X  
ClientSampleId :  
T9-12-13-N1-(0)

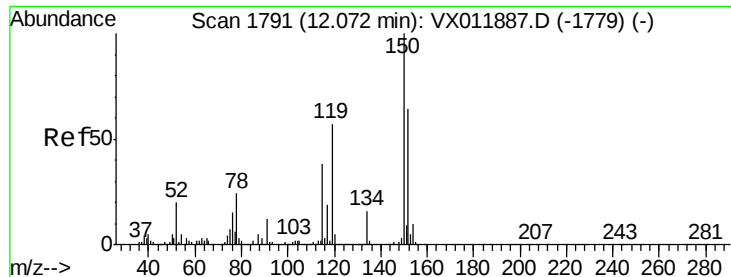
Tot Ion: 95 Resp: 203110  
Ion Ratio Lower Upper  
95 100  
174 100.5 0.0 196.0  
176 97.7 0.0 191.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX011980.D  
Acq: 01 Sep 2019 05:53

Tgt Ion: 117 Resp: 466086  
Ion Ratio Lower Upper  
117 100  
82 50.3 42.0 63.0  
119 31.8 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: VX011980.D

Acq: 01 Sep 2019 05:53

Instrument :

MSVOA\_X

ClientSampleId :

T9-12-13-N1-(0)

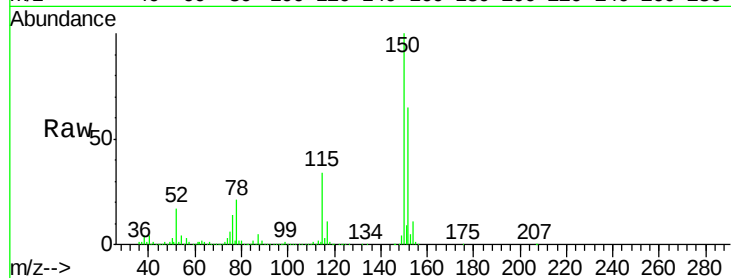
Tot Ion:152 Resp: 197461

Ion Ratio Lower Upper

152 100

115 52.8 37.1 111.3

150 155.6 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

