

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
 Data File : VW012014.D  
 Acq On : 20 Aug 2019 02:05  
 Operator : SY/VA  
 Sample : K4095-09  
 Misc : 5.68G/5ML/MSVOA W/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SU-03-081919

Quant Time: Aug 20 06:56:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

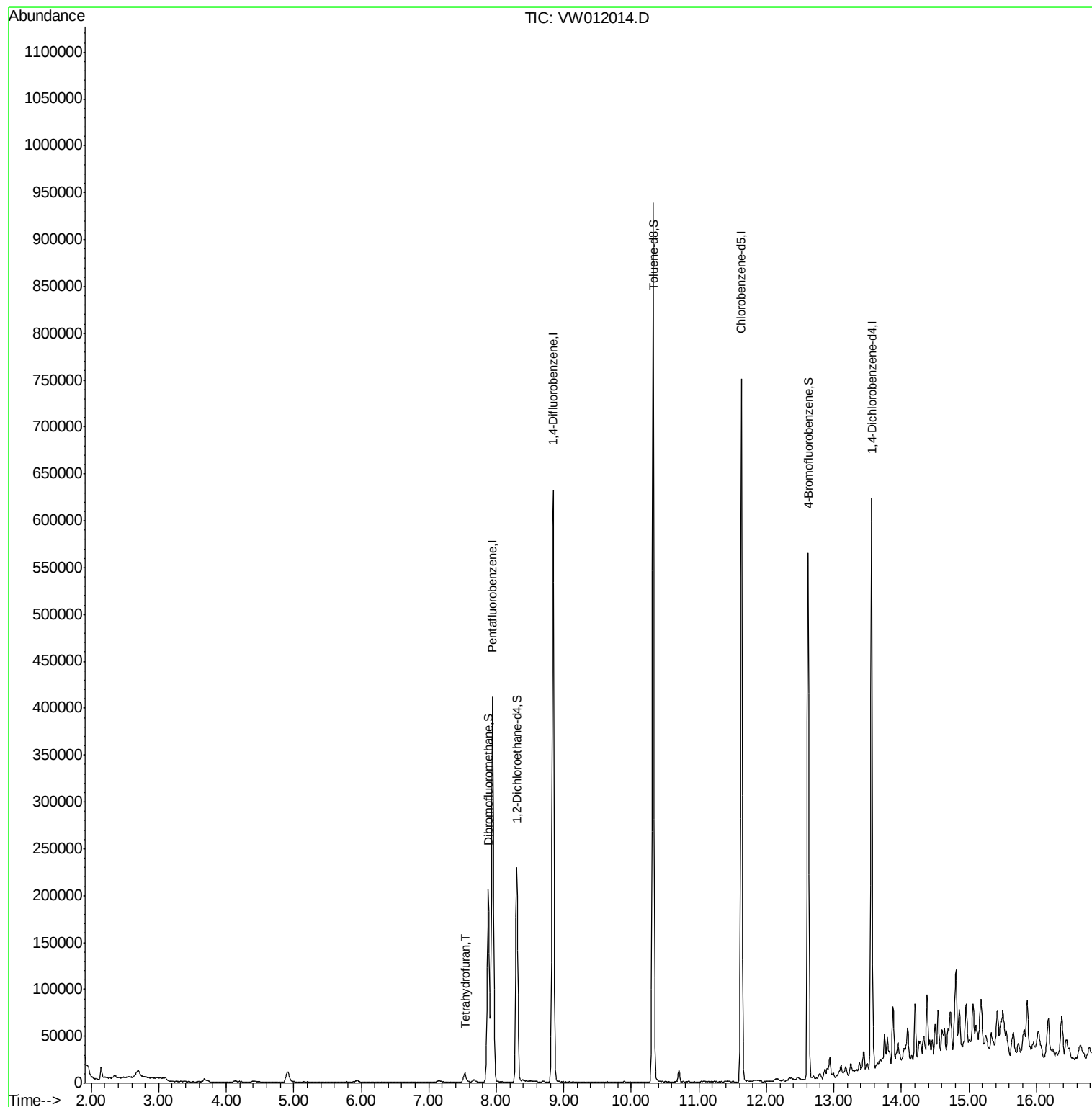
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|---------|-----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 300723   | 50.00  | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 500558   | 50.00  | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 399254   | 50.00  | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 152080   | 50.00  | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |        |         |           |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 181162   | 52.46  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 104.92% |           |
| 35) Dibromofluoromethane    | 7.88  | 113  | 146824   | 52.28  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 104.56% |           |
| 50) Toluene-d8              | 10.32 | 98   | 594748   | 51.73  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.46% |           |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 185382   | 45.22  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 90.44%  |           |
| Target Compounds            |       |      |          |        |         |           |
| 29) Tetrahydrofuran         | 7.54  | 42   | 8822     | 10.738 | ug/l    | Qvalue 98 |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012014.D

Acq: 20 Aug 2019 02:05

Instrument :

MSVOA\_W

ClientSampleId :

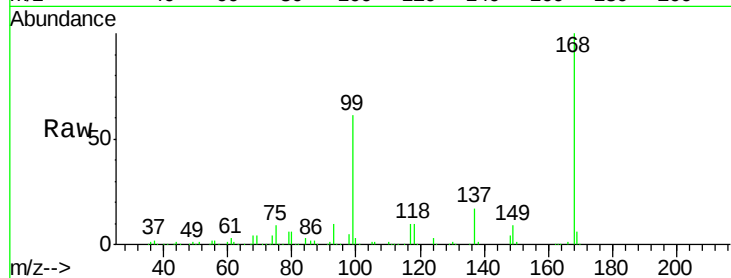
SU-03-081919

Tot Ion:168 Resp: 300723

Ion Ratio Lower Upper

168 100

99 61.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

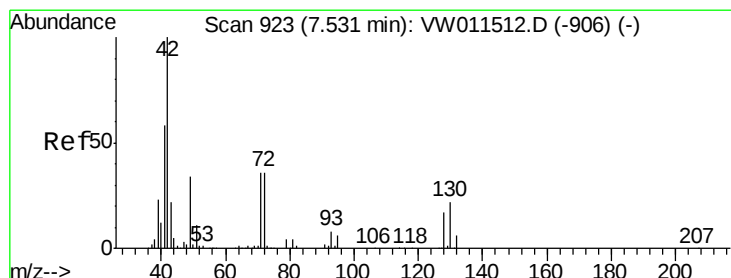
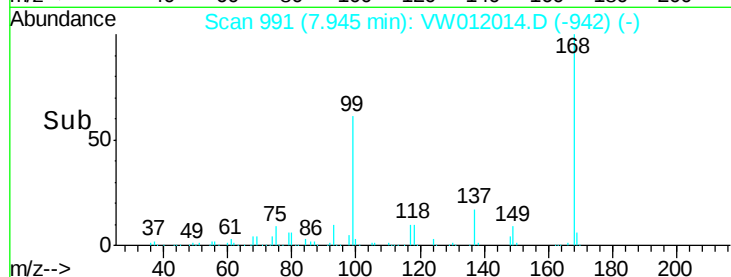
150000

100000

50000

0

Time-->



#29

Tetrahydrofuran

Concen: 10.738 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012014.D

Acq: 20 Aug 2019 02:05

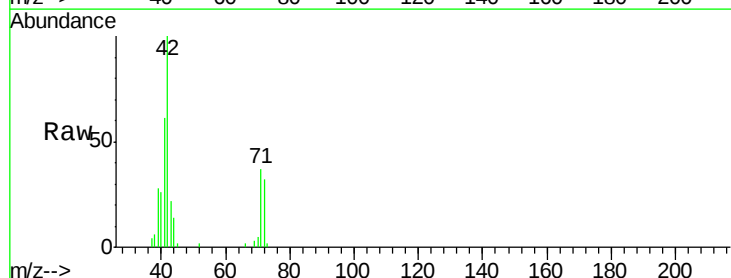
Tgt Ion: 42 Resp: 8822

Ion Ratio Lower Upper

42 100

72 36.6 27.1 40.7

71 32.8 26.2 39.4



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

7.54

4000

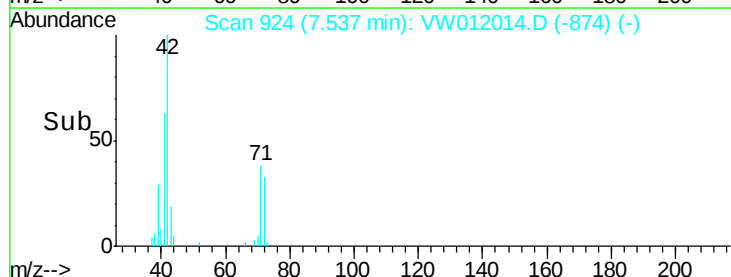
3000

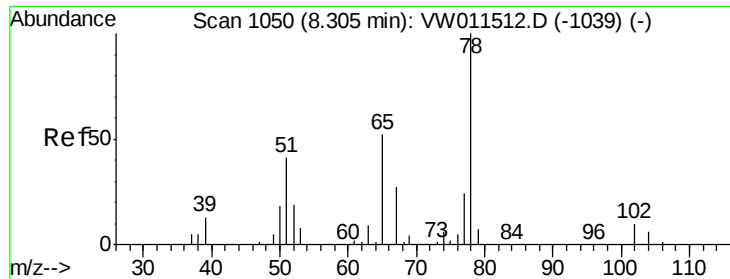
2000

1000

0

Time-->

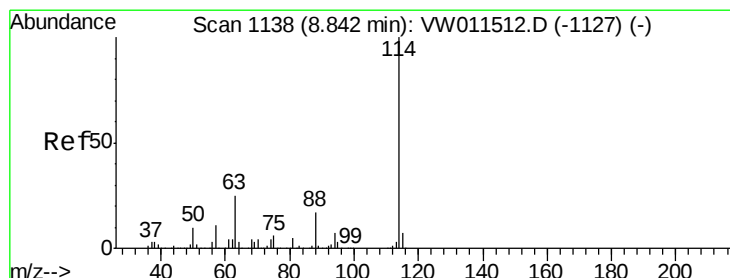
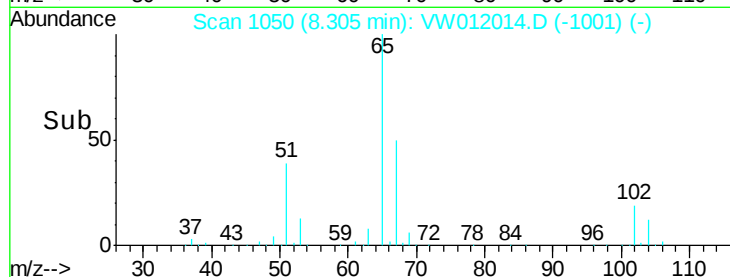
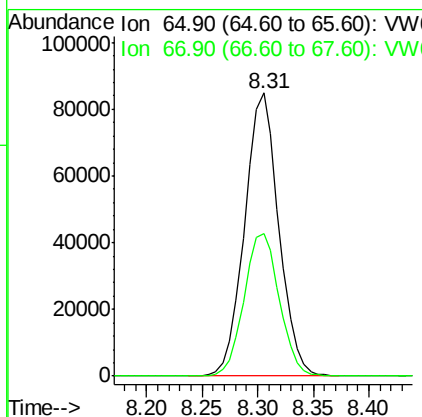
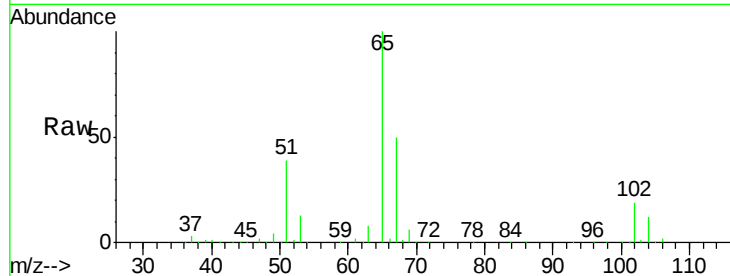




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.463 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012014.D  
 Acq: 20 Aug 2019 02:05

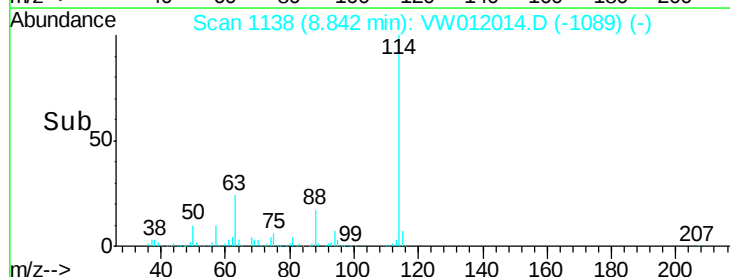
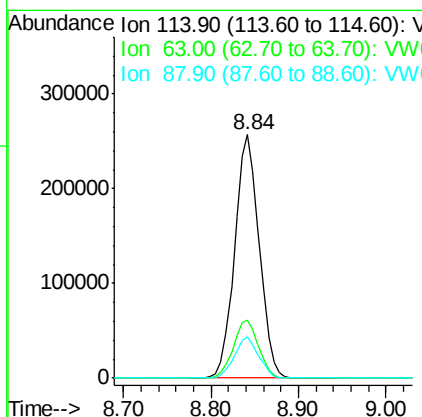
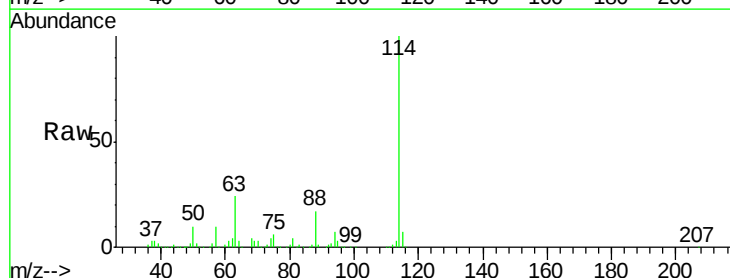
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SU-03-081919

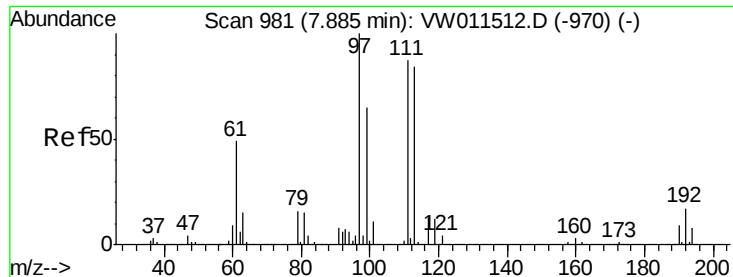
Tot Ion: 65 Resp: 181162  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012014.D  
 Acq: 20 Aug 2019 02:05

Tgt Ion: 114 Resp: 500558  
 Ion Ratio Lower Upper  
 114 100  
 63 23.7 0.0 49.2  
 88 17.0 0.0 33.8

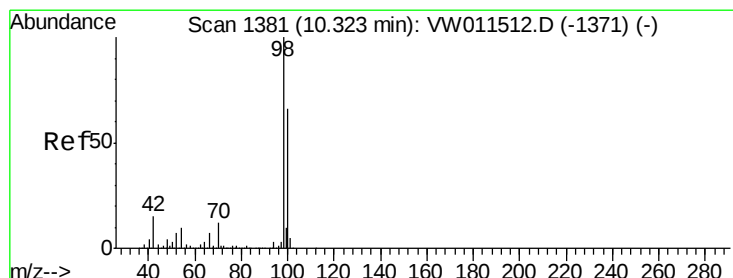
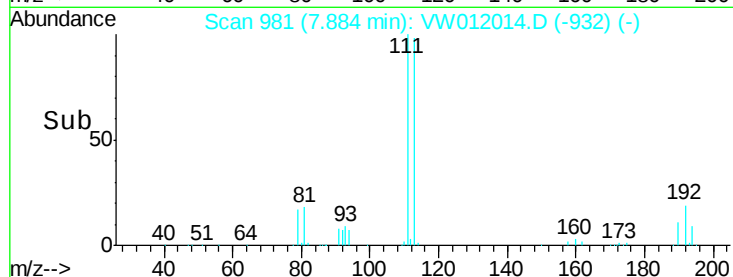
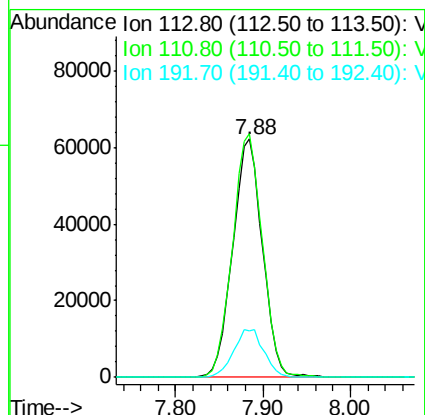
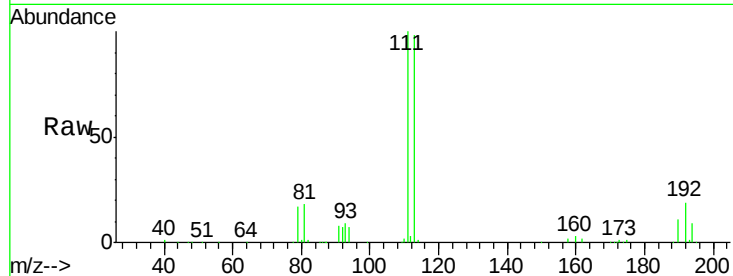




#35  
 Dibromofluoromethane  
 Concen: 52.284 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012014.D  
 Acq: 20 Aug 2019 02:05

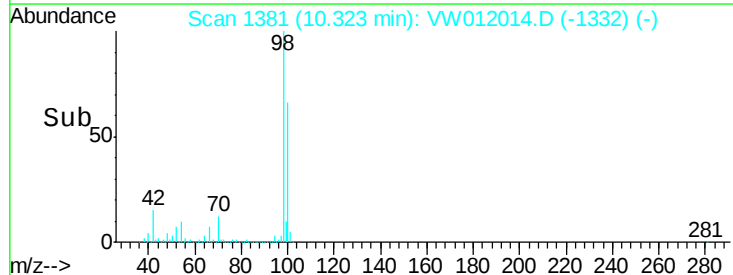
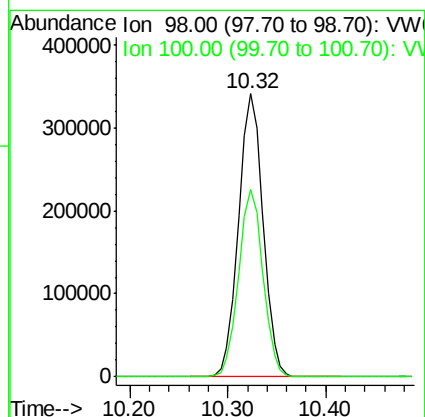
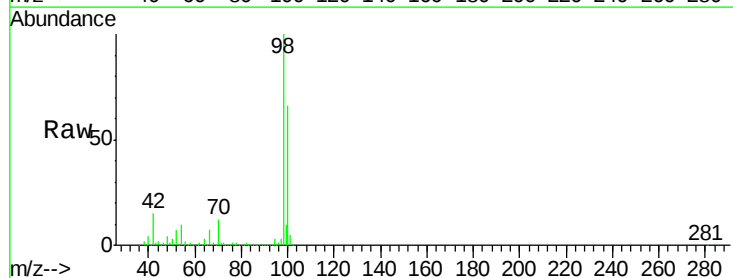
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SU-03-081919

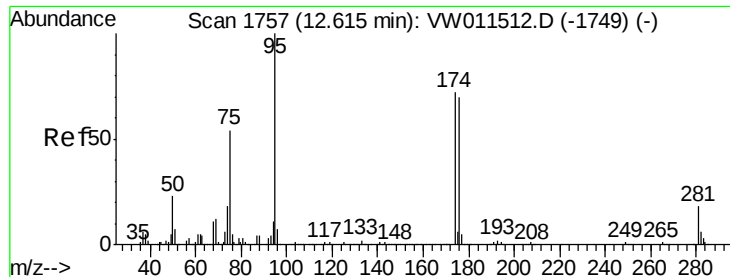
Tot Ion:113 Resp: 146824  
 Ion Ratio Lower Upper  
 113 100  
 111 103.1 82.7 124.1  
 192 20.7 16.1 24.1



#50  
 Toluene-d8  
 Concen: 51.728 ug/l  
 RT: 10.32 min Scan# 1381  
 Delta R.T. -0.00 min  
 Lab File: VW012014.D  
 Acq: 20 Aug 2019 02:05

Tgt Ion: 98 Resp: 594748  
 Ion Ratio Lower Upper  
 98 100  
 100 65.8 52.7 79.1





#62

4-Bromofluorobenzene

Concen: 45.224 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012014.D

Acq: 20 Aug 2019 02:05

Instrument :

MSVOA\_W

ClientSampleId :

SU-03-081919

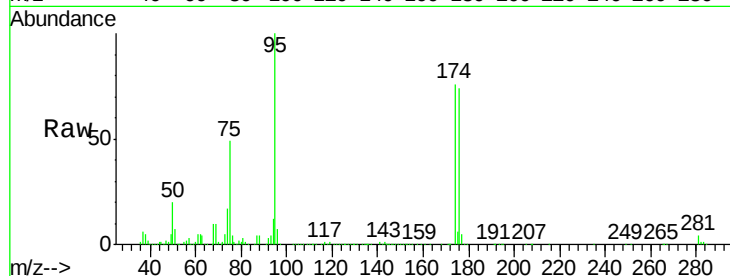
Tot Ion: 95 Resp: 185382

Ion Ratio Lower Upper

95 100

174 76.5 0.0 150.2

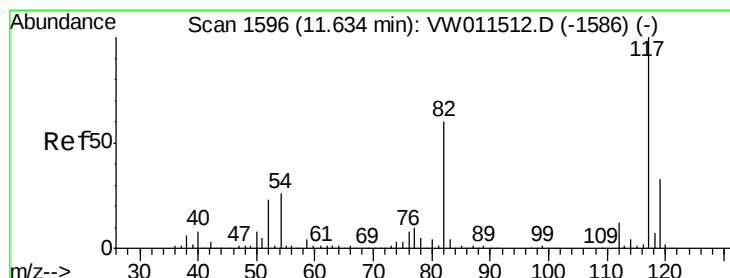
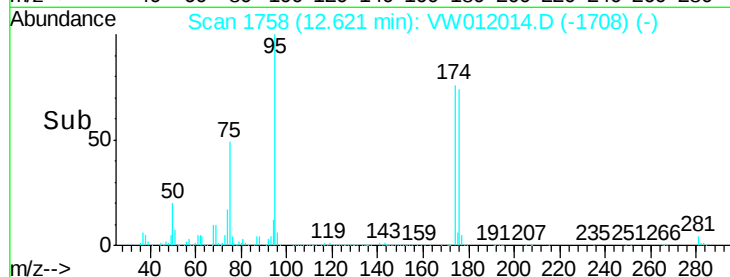
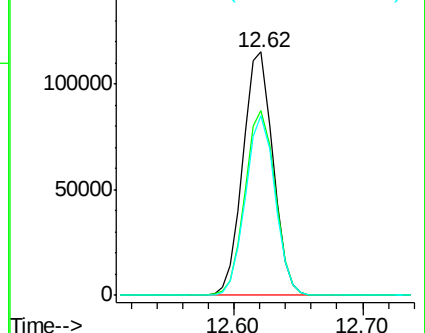
176 73.0 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW012014.D

Acq: 20 Aug 2019 02:05

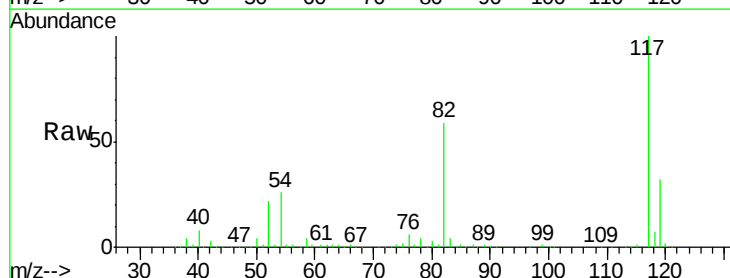
Tgt Ion: 117 Resp: 399254

Ion Ratio Lower Upper

117 100

82 58.5 47.9 71.9

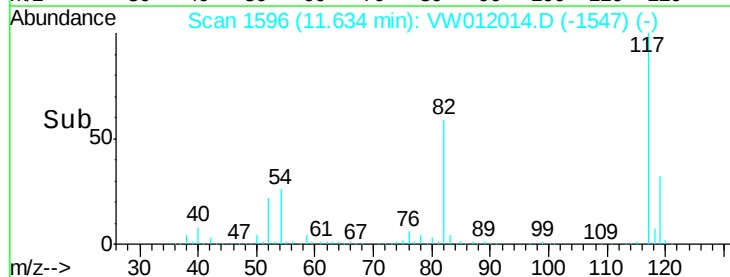
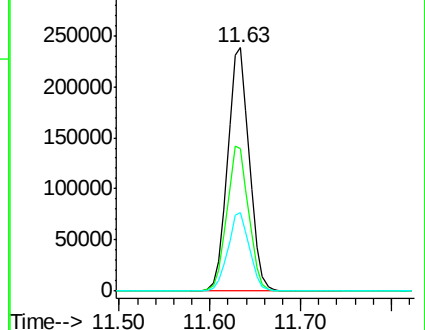
119 32.0 26.2 39.2

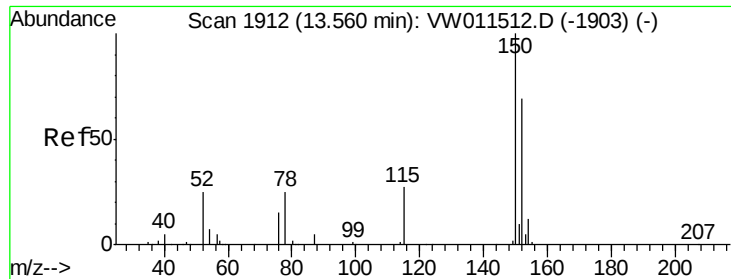


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012014.D

Acq: 20 Aug 2019 02:05

Instrument :

MSVOA\_W

ClientSampleId :

SU-03-081919

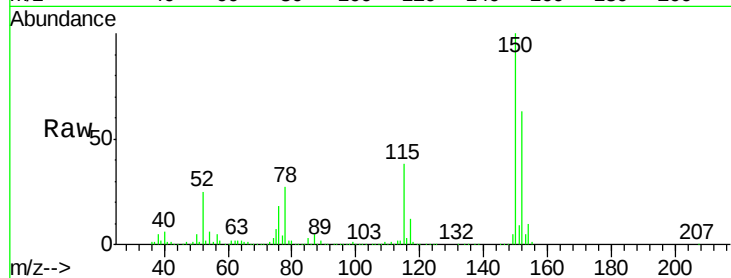
Tot Ion:152 Resp: 152080

Ion Ratio Lower Upper

152 100

115 60.1 30.5 91.5

150 158.0 0.0 352.6



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

