

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083019\  
 Data File : VW012359.D  
 Acq On : 30 Aug 2019 19:09  
 Operator : SY/VA  
 Sample : K4439-03  
 Misc : 4.33G/5ML/MSVOA W/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S-2-(1-3)

Quant Time: Aug 31 04:10:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

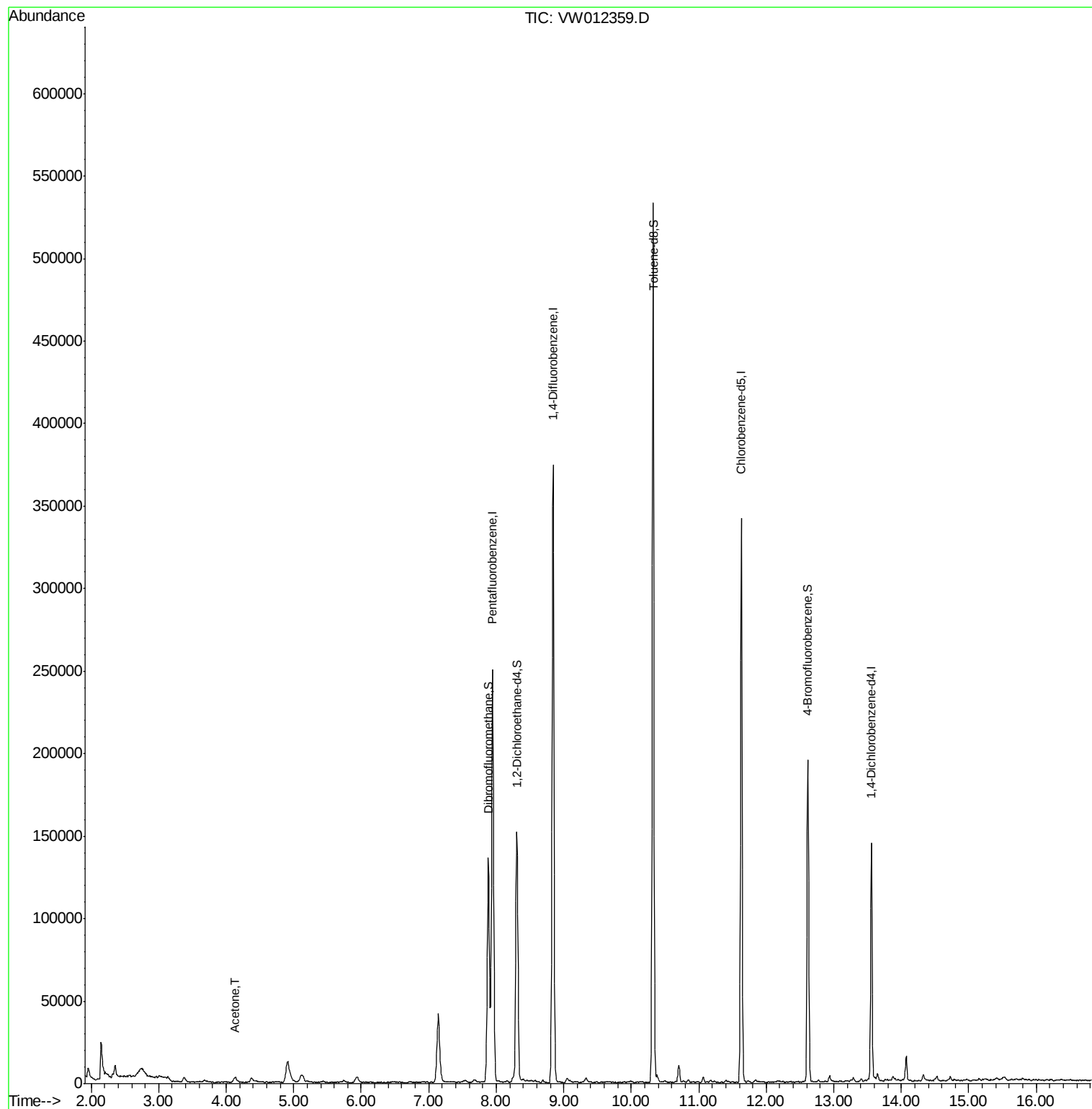
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|---------|-----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 179913   | 50.00  | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 290784   | 50.00  | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 176206   | 50.00  | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 36340    | 50.00  | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |        |         |           |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 120025   | 56.12  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 112.24% |           |
| 35) Dibromofluoromethane    | 7.88  | 113  | 95829    | 55.21  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 110.42% |           |
| 50) Toluene-d8              | 10.32 | 98   | 330098   | 46.90  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 93.80%  |           |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 58975    | 23.77  | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =      | 47.54%  |           |
| Target Compounds            |       |      |          |        |         |           |
| 16) Acetone                 | 4.13  | 43   | 5879     | 10.754 | ug/l    | Qvalue 96 |

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

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Quant Time: Aug 31 04:10:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 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: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA\_W

ClientSampleId :

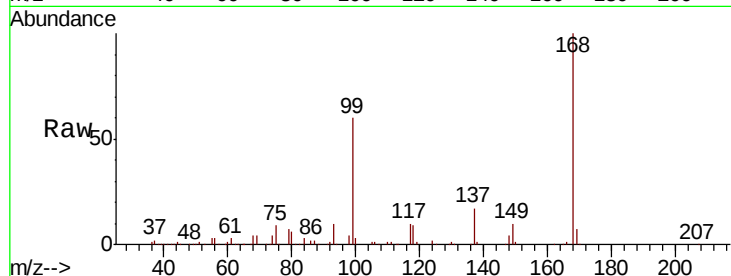
S-2-(1-3)

Tot Ion:168 Resp: 179913

Ion Ratio Lower Upper

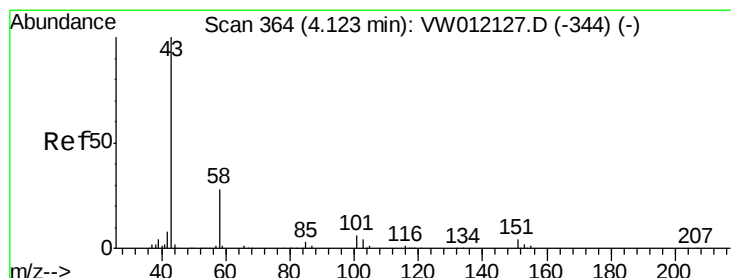
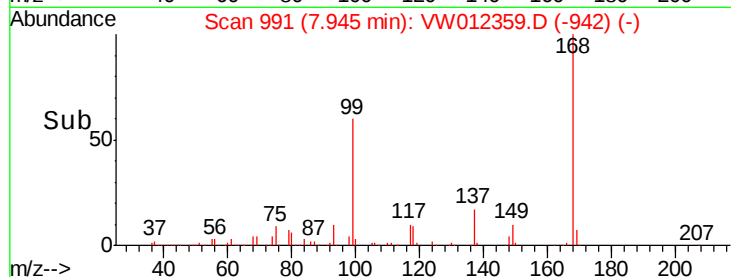
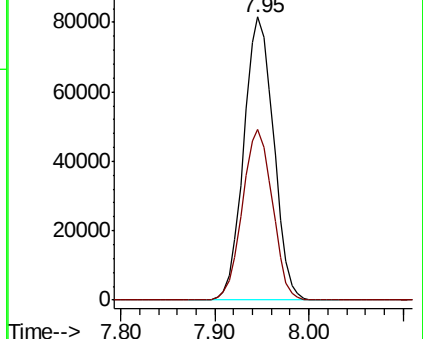
168 100

99 60.2 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 10.754 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012359.D

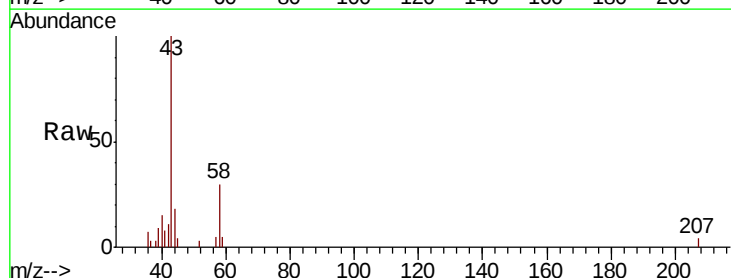
Acq: 30 Aug 2019 19:09

Tgt Ion: 43 Resp: 5879

Ion Ratio Lower Upper

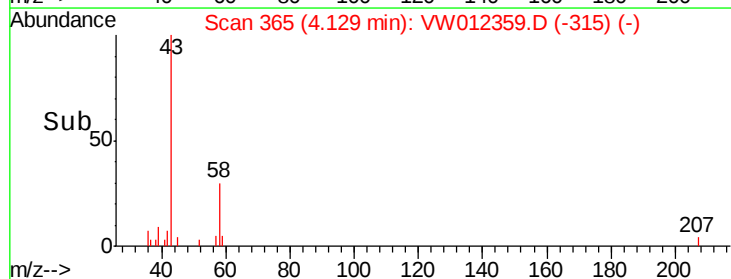
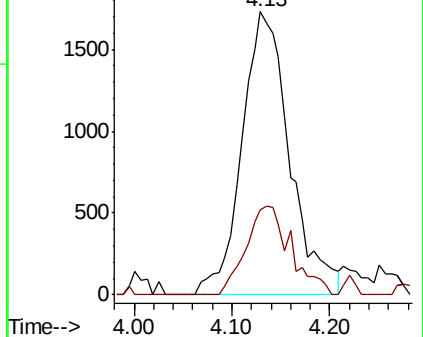
43 100

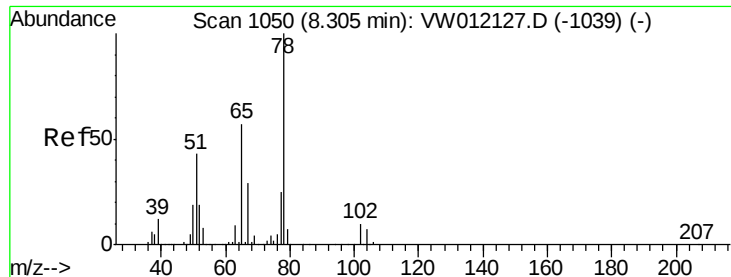
58 29.9 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#33

1,2-Dichloroethane-d4

Concen: 56.120 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA\_W

ClientSampleId :

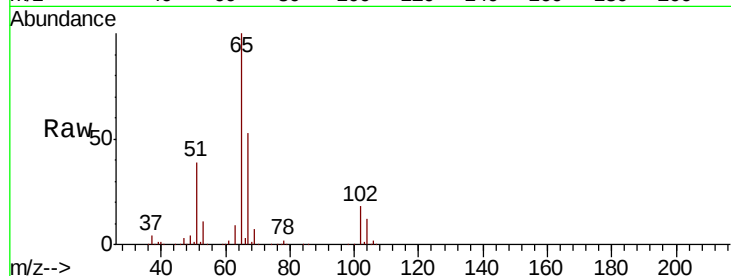
S-2-(1-3)

Tot Ion: 65 Resp: 120025

Ion Ratio Lower Upper

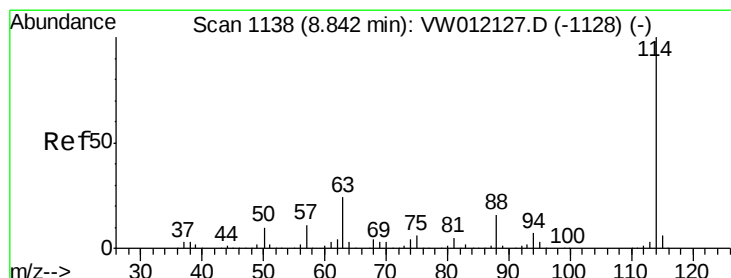
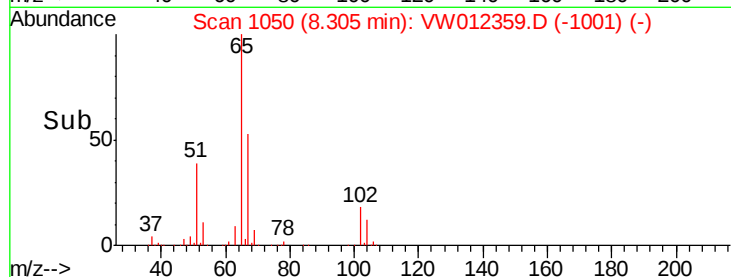
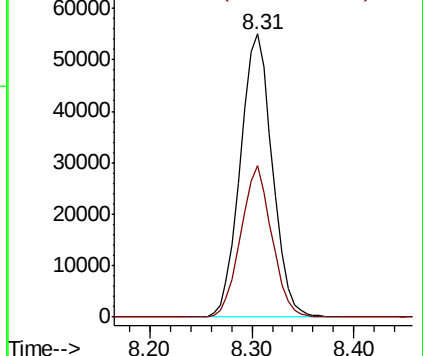
65 100

67 51.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

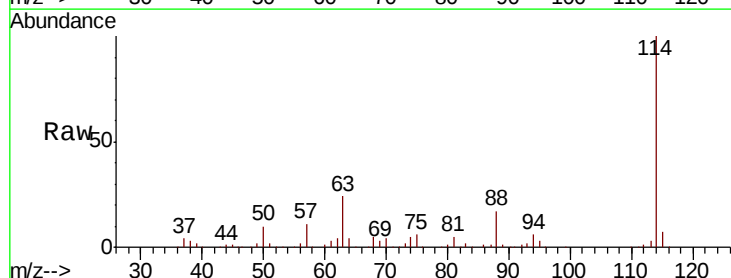
Tgt Ion: 114 Resp: 290784

Ion Ratio Lower Upper

114 100

63 24.5 0.0 48.6

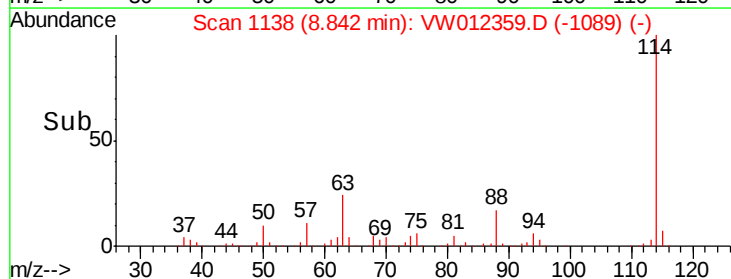
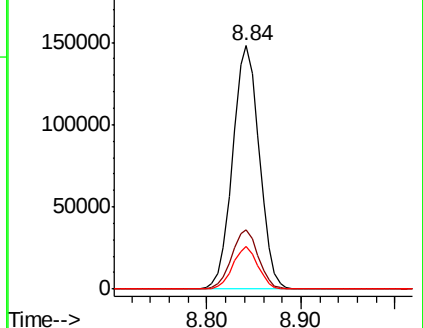
88 17.5 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

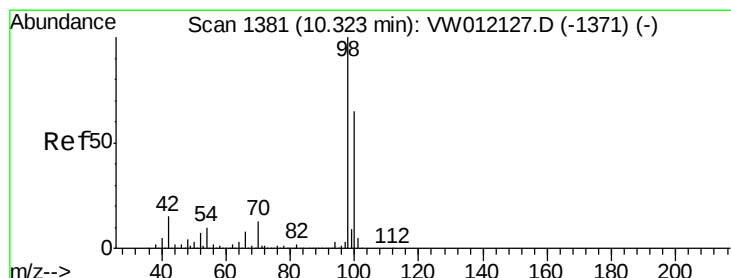
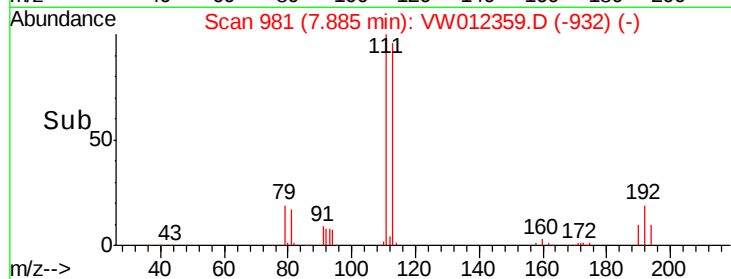
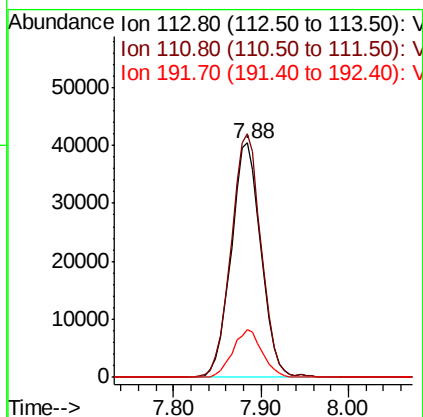
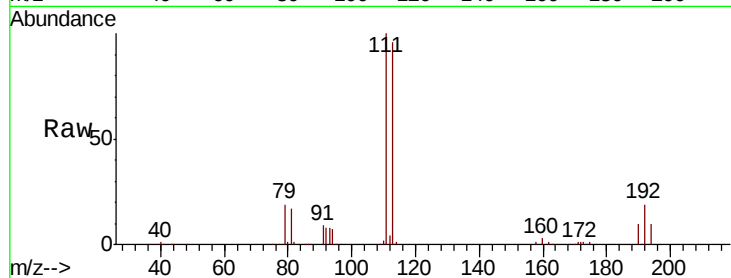




#35  
 Dibromofluoromethane  
 Concen: 55.211 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012359.D  
 Acq: 30 Aug 2019 19:09

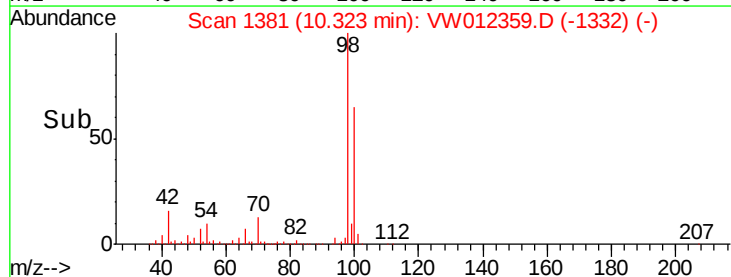
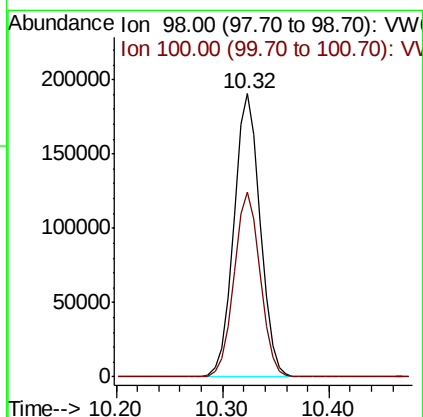
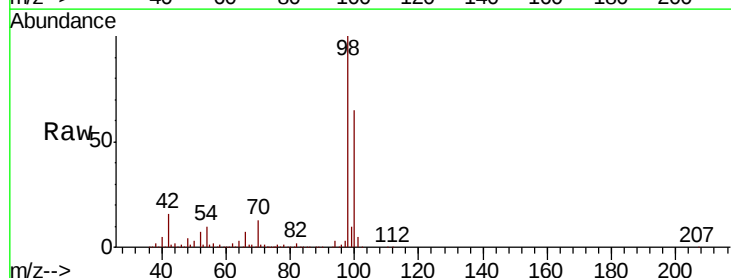
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 S-2-(1-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.2 | 82.7  | 124.1 |
| 192     | 20.0  | 16.2  | 24.2  |



#50  
 Toluene-d8  
 Concen: 46.904 ug/l  
 RT: 10.32 min Scan# 1381  
 Delta R.T. -0.00 min  
 Lab File: VW012359.D  
 Acq: 30 Aug 2019 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.9  | 52.4  | 78.6  |





#62

4-Bromofluorobenzene

Concen: 23.773 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA\_W

ClientSampleId :

S-2-(1-3)

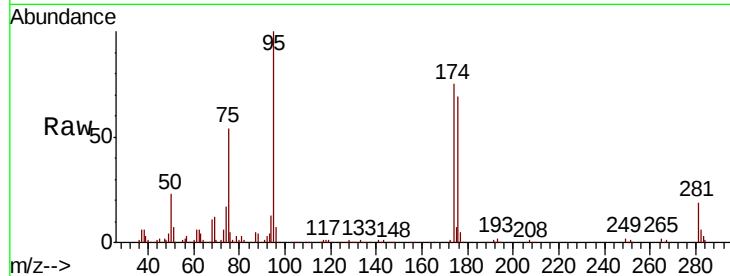
Tot Ion: 95 Resp: 58975

Ion Ratio Lower Upper

95 100

174 77.4 0.0 150.8

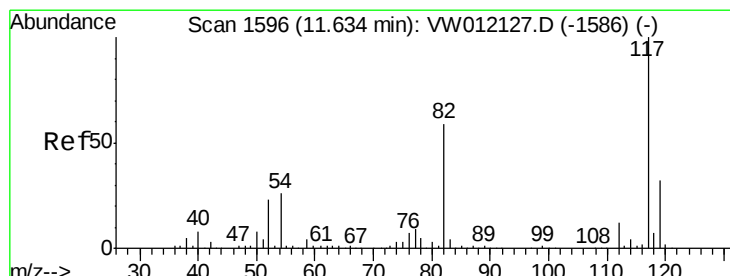
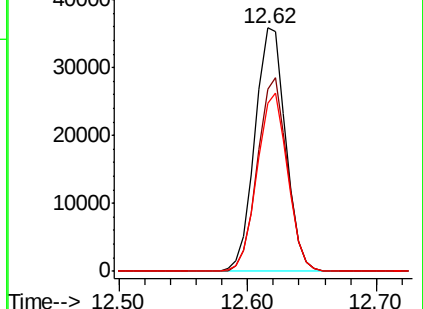
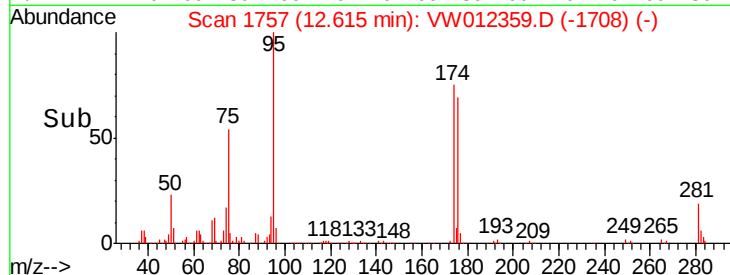
176 72.9 0.0 148.6



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# 1595

Delta R.T. -0.01 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

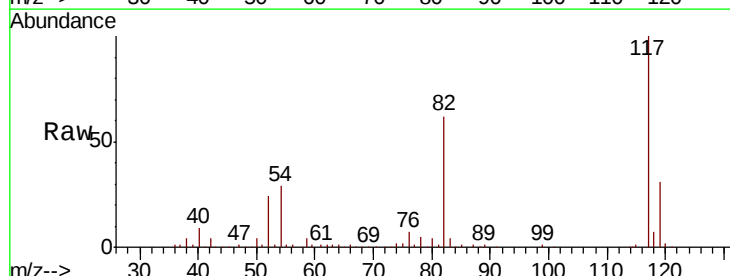
Tgt Ion: 117 Resp: 176206

Ion Ratio Lower Upper

117 100

82 61.6 47.4 71.2

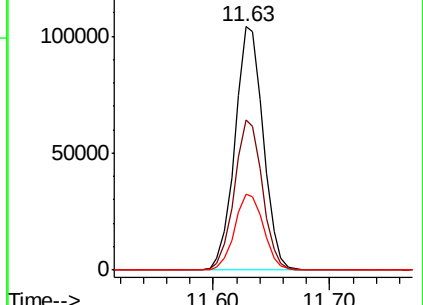
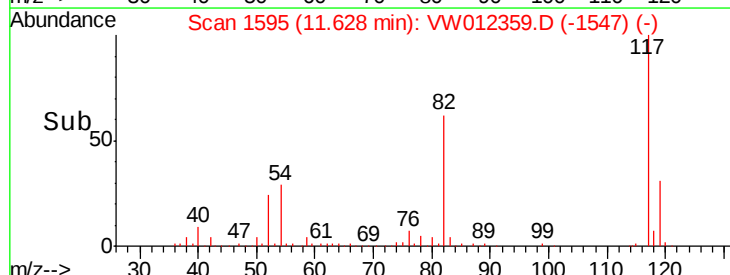
119 31.2 25.4 38.2

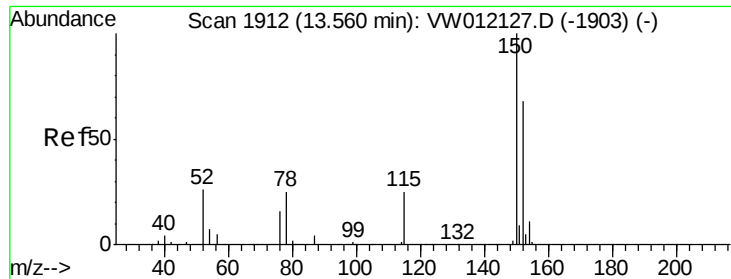


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA\_W

ClientSampleId :

S-2-(1-3)

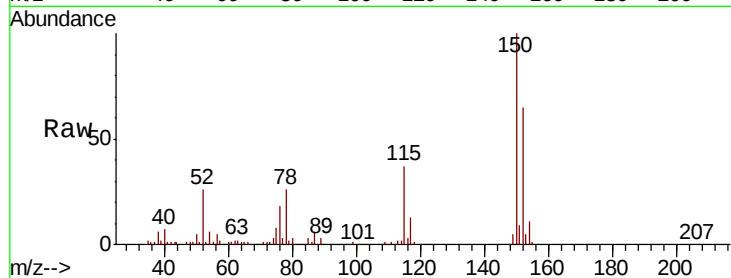
Tot Ion:152 Resp: 36340

Ion Ratio Lower Upper

152 100

115 59.1 30.1 90.3

150 156.0 0.0 345.8



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

