

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080818\  
 Data File : VW004514.D  
 Acq On : 08 Aug 2018 01:04  
 Operator : SY/AP  
 Sample : J4313-01  
 Misc : 3.04G/5ML/MSVOA W/SOIL  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-5

Quant Time: Aug 08 09:07:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 313816   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 476794   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 293396   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 43717    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 185274   | 53.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.66% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 180380   | 56.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.48% |          |
| 50) Toluene-d8              | 10.33 | 98   | 393411   | 32.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 64.92%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 53384    | 12.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 24.46%  |          |

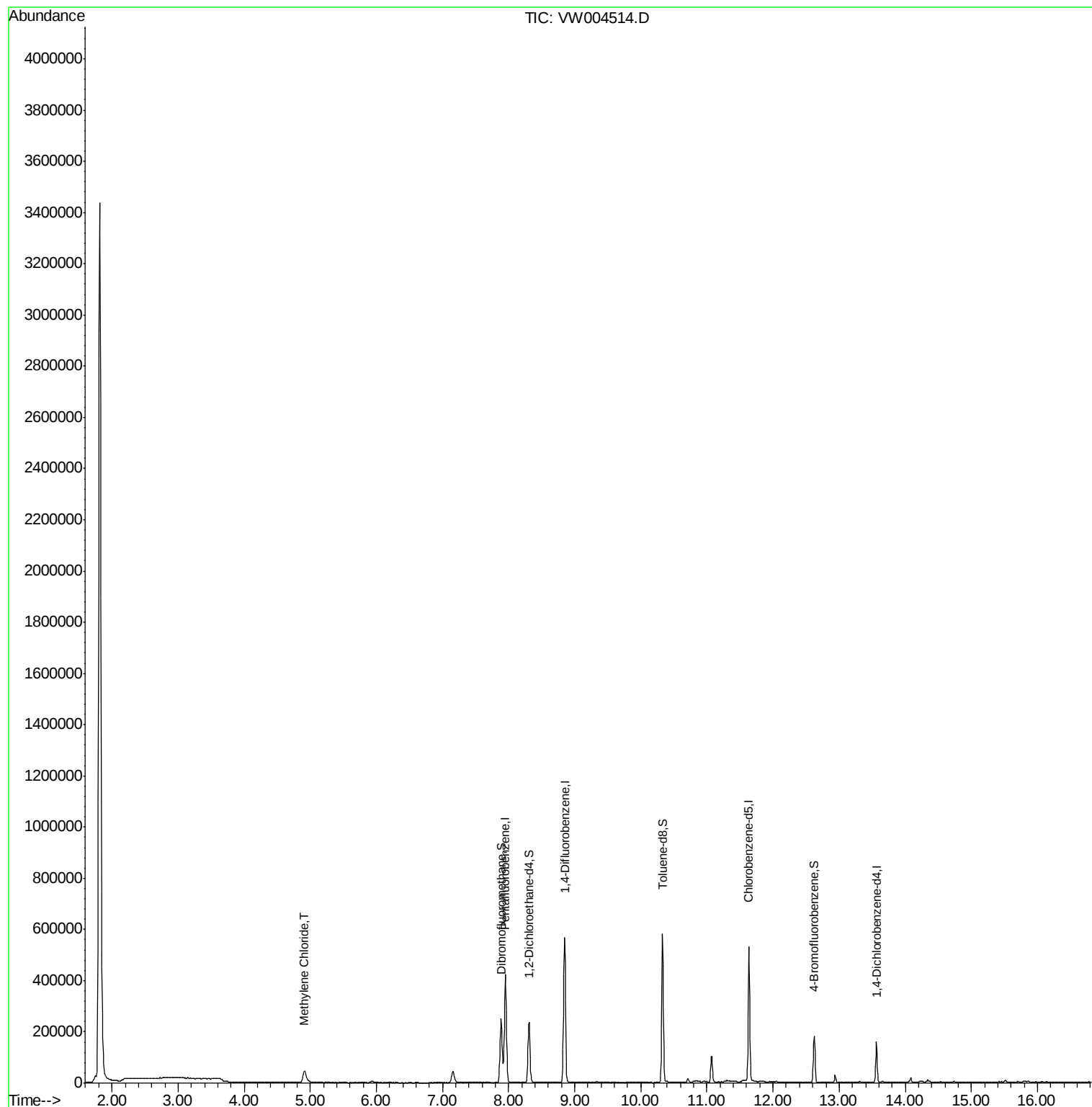
| Target Compounds       | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------|------|------|----------|------|-------|--------|
| 20) Methylene Chloride | 4.91 | 84   | 43243    | 1.63 | ug/l  | 99     |

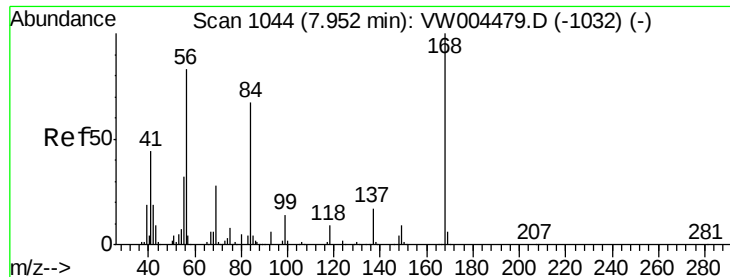
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
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Quant Time: Aug 08 09:07:08 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 08:22:01 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004514.D

Acq: 08 Aug 2018 01:04

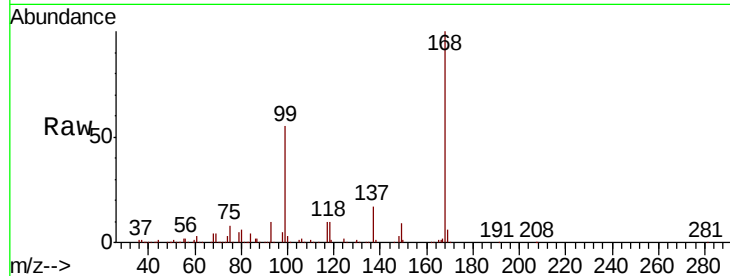
Instrument :  
MSVOA\_W  
ClientSampleId :  
C-5

Tot Ion:168 Resp: 313816

Ion Ratio Lower Upper

168 100

99 54.8 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

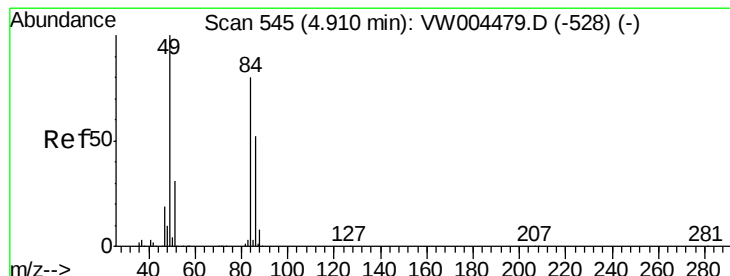
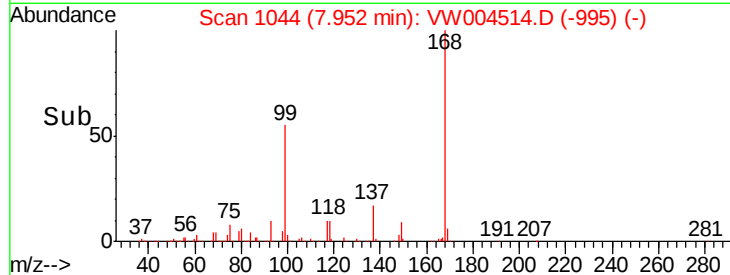
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 1.63 ug/l

RT: 4.91 min Scan# 545

Delta R.T. 0.00 min

Lab File: VW004514.D

Acq: 08 Aug 2018 01:04

Tgt Ion: 84 Resp: 43243

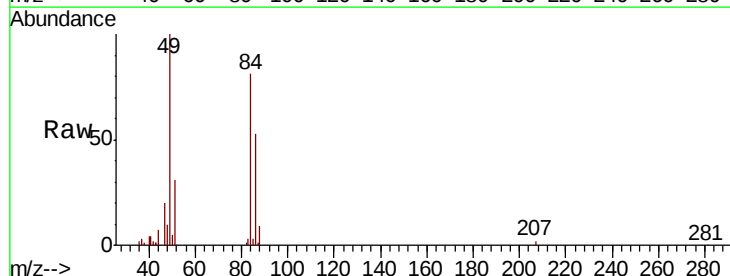
Ion Ratio Lower Upper

84 100

49 123.1 99.6 149.4

51 38.6 31.0 46.4

86 65.3 51.5 77.3



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

20000

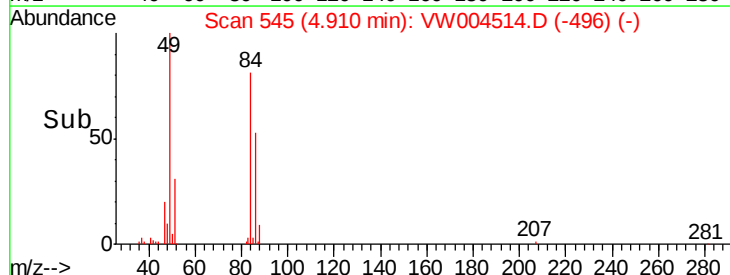
15000

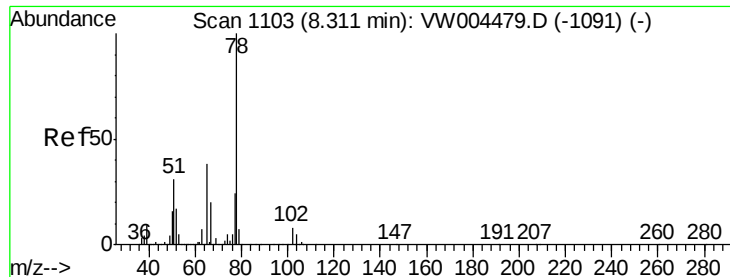
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5000

0

Time-->

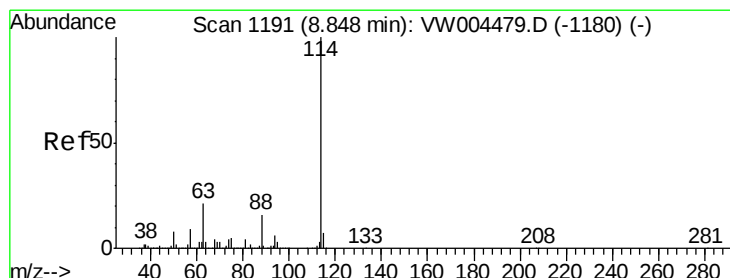
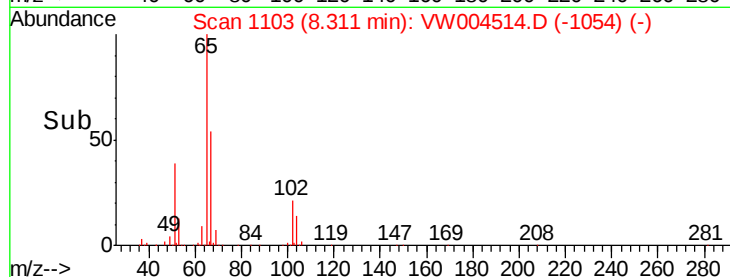
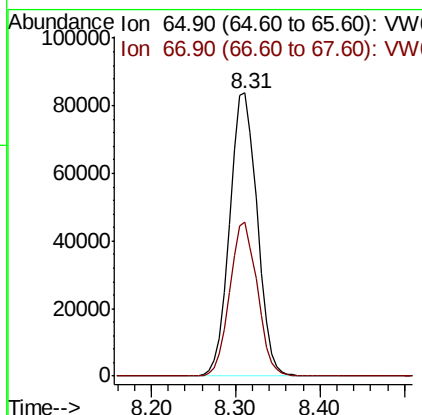
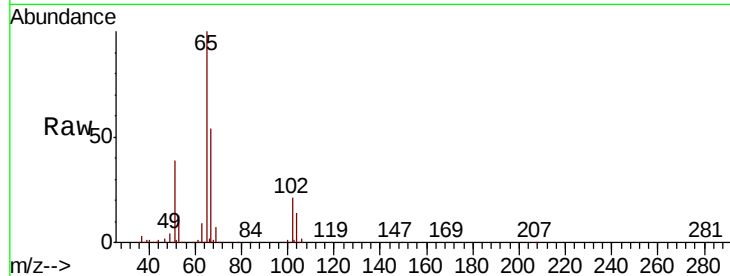




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.33 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. 0.00 min  
 Lab File: VW004514.D  
 Acq: 08 Aug 2018 01:04

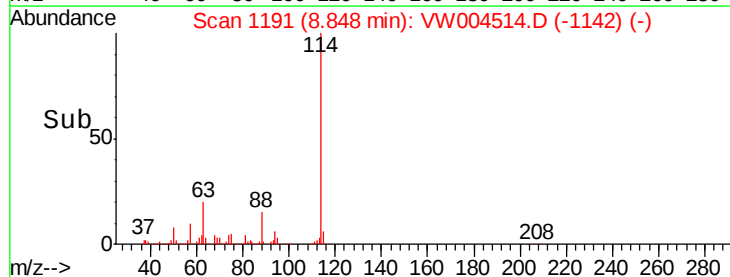
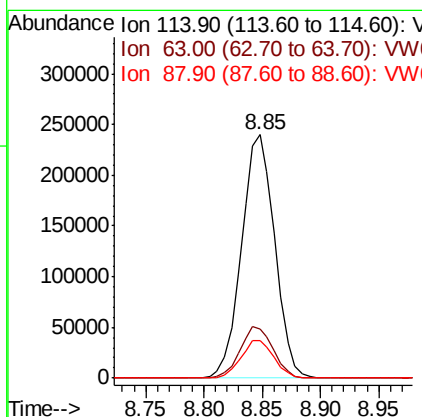
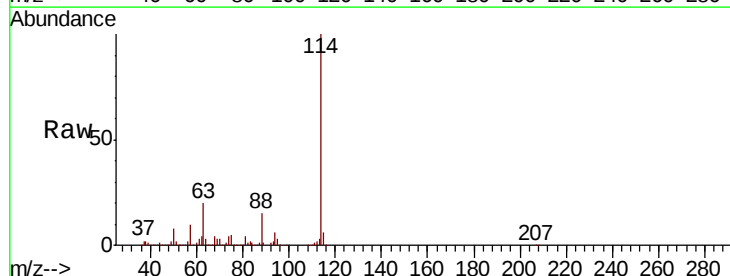
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C-5

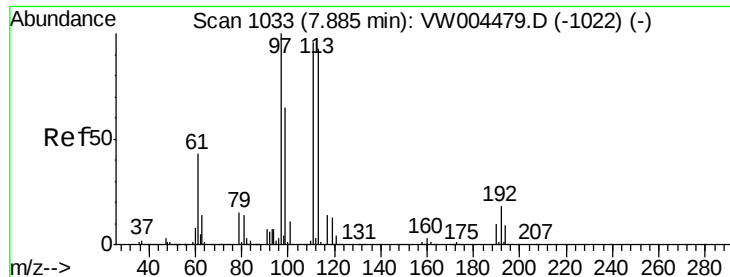
Tot Ion: 65 Resp: 185274  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 109.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004514.D  
 Acq: 08 Aug 2018 01:04

Tgt Ion: 114 Resp: 476794  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 42.4  
 88 15.4 0.0 31.2

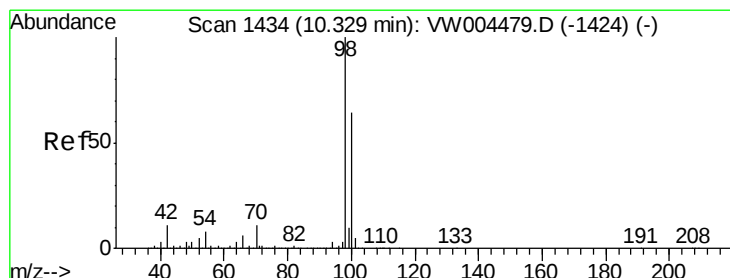
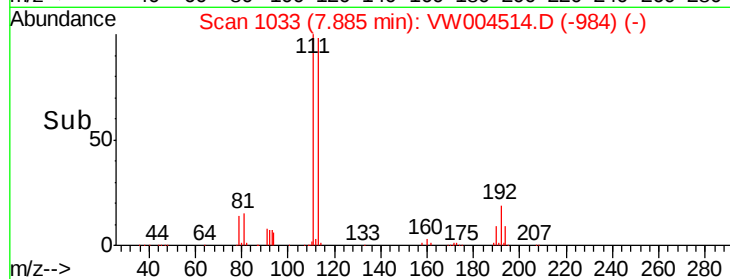
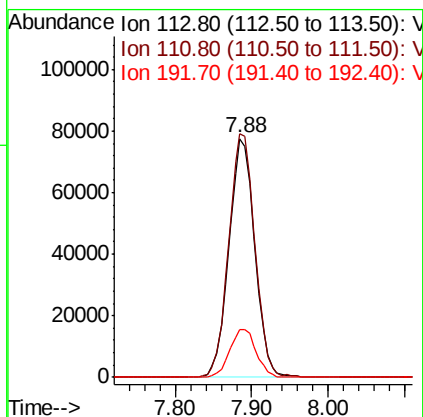
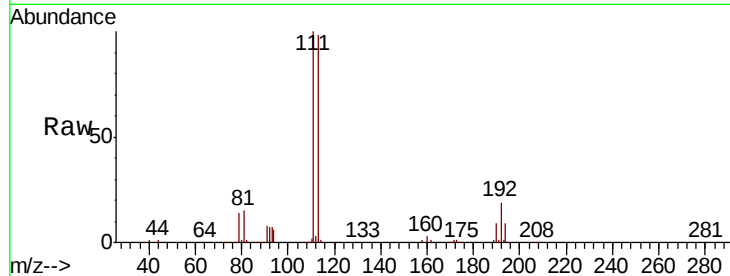




#35  
 Dibromofluoromethane  
 Concen: 56.74 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004514.D  
 Acq: 08 Aug 2018 01:04

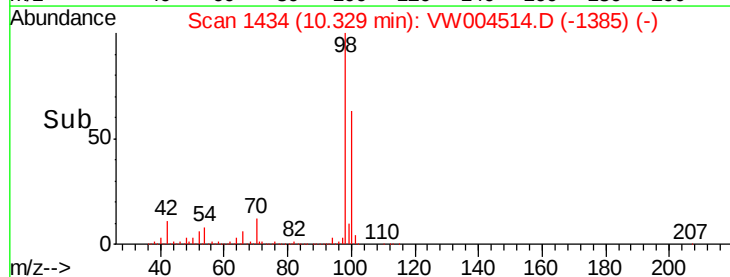
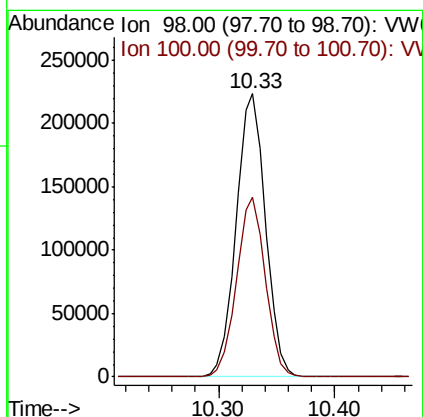
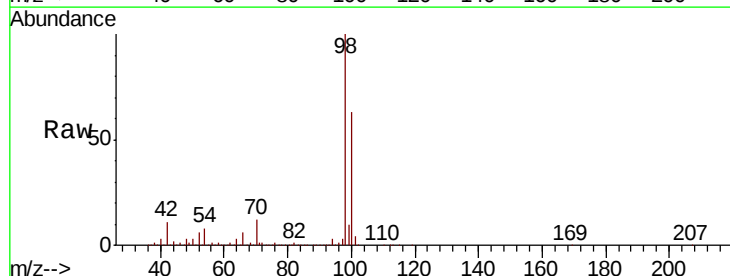
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 C-5

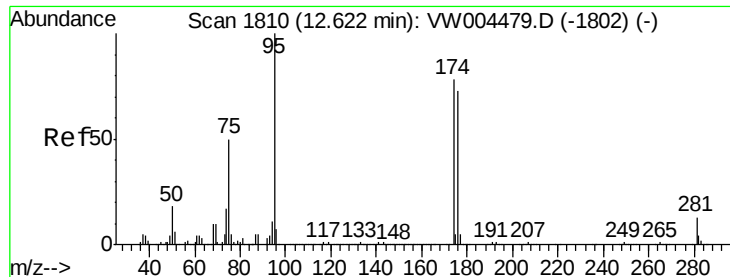
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 82.9  | 124.3 |
| 192     | 20.5  | 15.8  | 23.6  |



#50  
 Toluene-d8  
 Concen: 32.46 ug/l  
 RT: 10.33 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW004514.D  
 Acq: 08 Aug 2018 01:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 62.2  | 51.4  | 77.2  |





#62

4-Bromofluorobenzene

Concen: 12.23 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VW004514.D

Acq: 08 Aug 2018 01:04

Instrument :

MSVOA\_W

ClientSampleId :

C-5

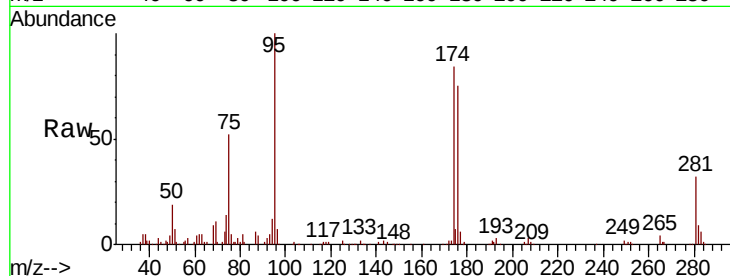
Tot Ion: 95 Resp: 53384

Ion Ratio Lower Upper

95 100

174 82.8 0.0 160.4

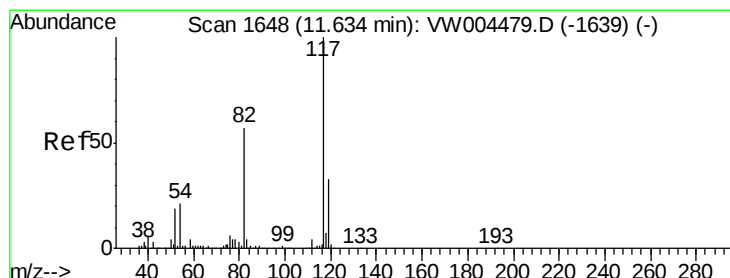
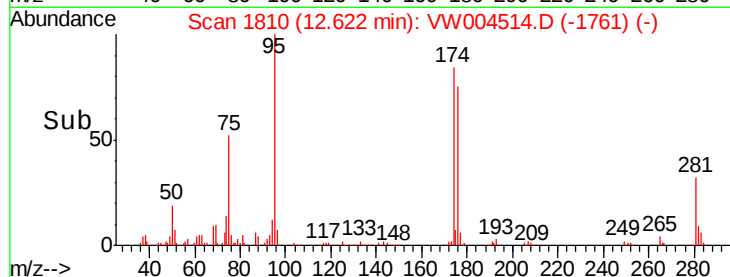
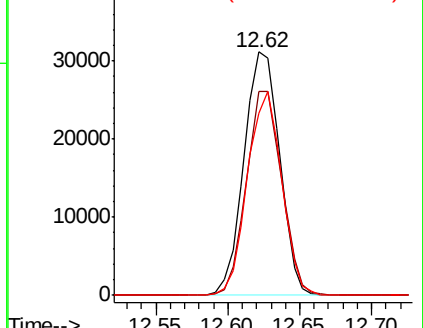
176 80.4 0.0 153.2



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: 50.00 ug/l

RT: 11.63 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VW004514.D

Acq: 08 Aug 2018 01:04

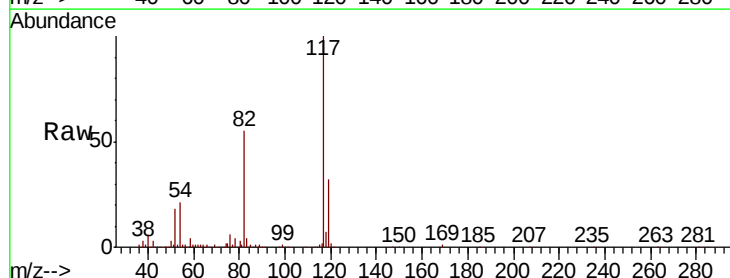
Tgt Ion: 117 Resp: 293396

Ion Ratio Lower Upper

117 100

82 55.0 45.3 67.9

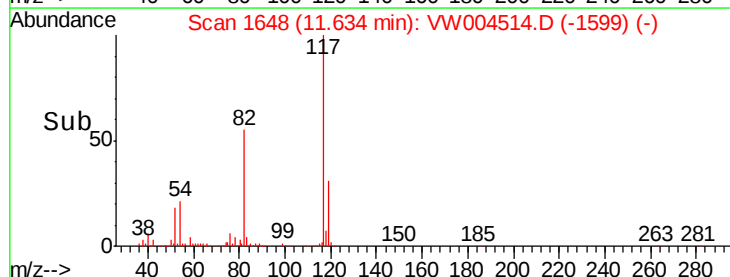
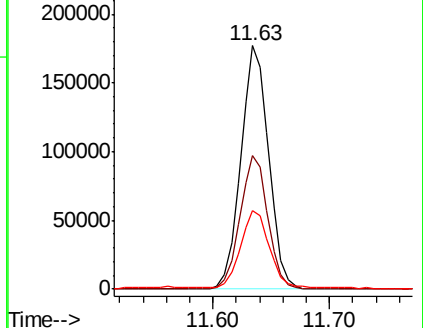
119 31.7 26.2 39.4

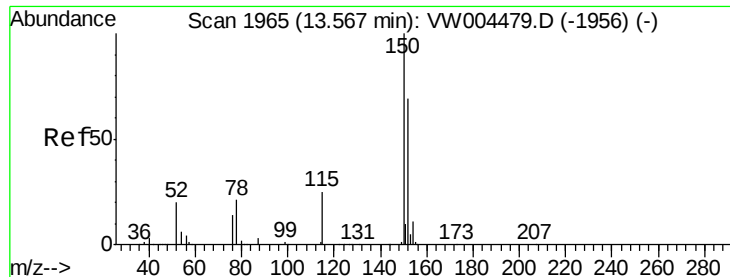


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW004514.D

Acq: 08 Aug 2018 01:04

Instrument :

MSVOA\_W

ClientSampleId :

C-5

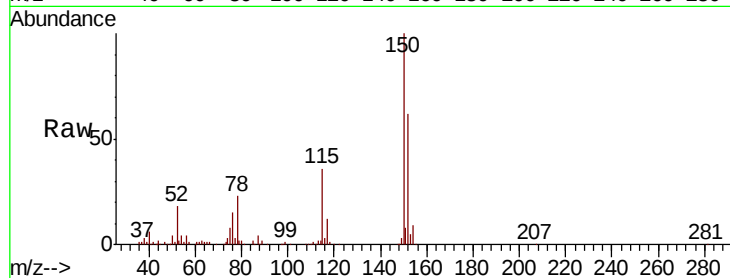
Tot Ion:152 Resp: 43717

Ion Ratio Lower Upper

152 100

115 56.6 29.1 87.3

150 155.4 0.0 349.6



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

