

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW082418\  
 Data File : VW004946.D  
 Acq On : 24 Aug 2018 20:11  
 Operator : SY/AP  
 Sample : J4650-03MSD  
 Misc : 3.34G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAB80MSD

Quant Time: Aug 25 01:35:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082218S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 25 01:34:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 660329   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 680333   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 247374   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 280591   | 22.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.92%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 221157   | 23.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.60%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 359514   | 22.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 90.24%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 144956   | 57.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 114.14% |
| 24) Chloroform-d               | 7.65   | 84    | 343247   | 23.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.64%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 212296   | 26.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 106.60% |
| 29) Benzene-d6                 | 8.28   | 84    | 844154   | 24.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.48%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 258804   | 25.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.68% |
| 37) Toluene-d8                 | 10.33  | 98    | 895467   | 24.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 96.60%  |
| 38) trans-1,3-Dichloropropene- | 10.59  | 79    | 108688   | 24.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 98.28%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 155146   | 60.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 121.80% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70  | 84    | 265018   | 25.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 102.60% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 246707   | 24.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.32%  |

## Target Compounds

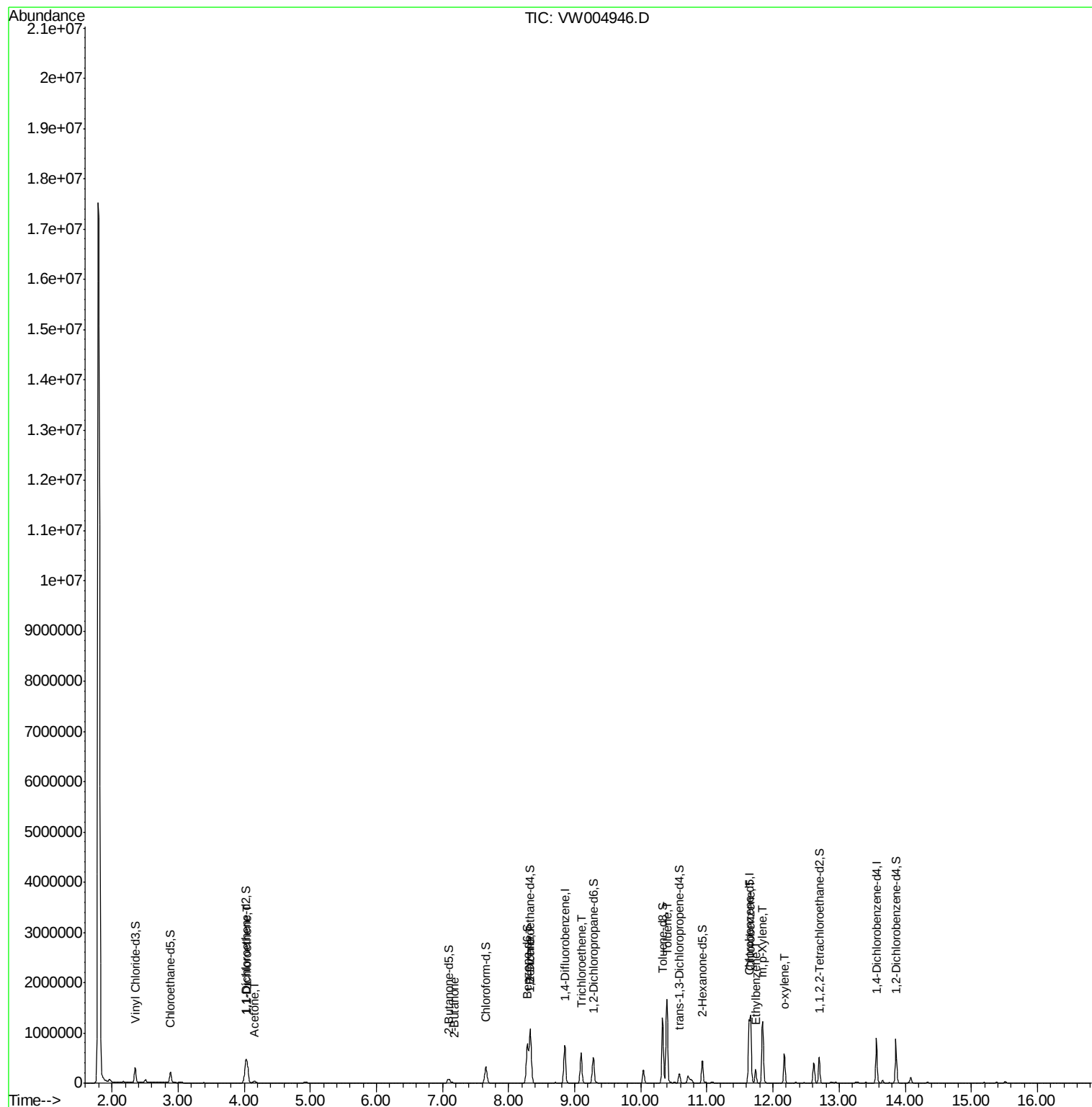
| Target Compounds       | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|------------------------|-------|------|----------|--------|-------|--------|
| 12) 1,1-Dichloroethene | 4.04  | 96   | 183746   | 23.901 | ug/L  | 96     |
| 13) Acetone            | 4.15  | 43   | 61005    | 31.006 | ug/L  | 97     |
| 21) 2-Butanone         | 7.18  | 43   | 10518    | 3.472  | ug/L  | 83     |
| 34) Benzene            | 8.33  | 78   | 978270   | 25.219 | ug/L  | 100    |
| 35) Trichloroethene    | 9.10  | 95   | 218782   | 22.682 | ug/L  | 99     |
| 44) Toluene            | 10.40 | 91   | 1287072  | 27.628 | ug/L  | 99     |
| 52) Chlorobenzene      | 11.66 | 112  | 715079   | 23.107 | ug/L  | 99     |
| 53) Ethylbenzene       | 11.74 | 91   | 187730   | 3.581  | ug/L  | 98     |
| 54) m,p-Xylene         | 11.84 | 106  | 389574   | 19.157 | ug/L  | 99     |
| 55) o-xylene           | 12.17 | 106  | 159892   | 8.415  | ug/L  | 99     |

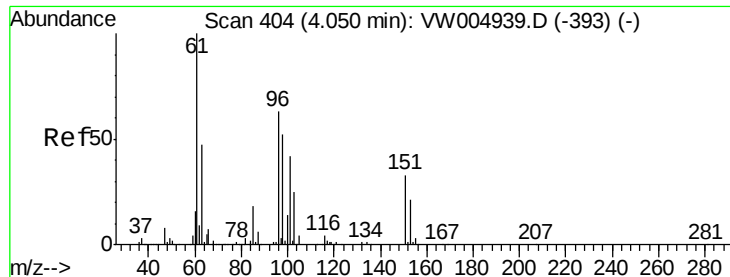
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW082418\  
Data File : VW004946.D  
Acq On : 24 Aug 2018 20:11  
Operator : SY/AP  
Sample : J4650-03MSD  
Misc : 3.34G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAB80MSD

Quant Time: Aug 25 01:35:09 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082218S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Aug 25 01:34:01 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 23.901 ug/L

RT: 4.04 min Scan# 403

Delta R.T. 0.00 min

Lab File: VW004946.D

Acq: 24 Aug 2018 20:11

Instrument :

MSVOA\_W

ClientSampleId :

GAB80MSD

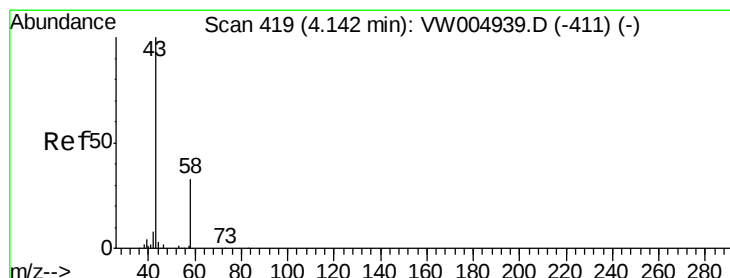
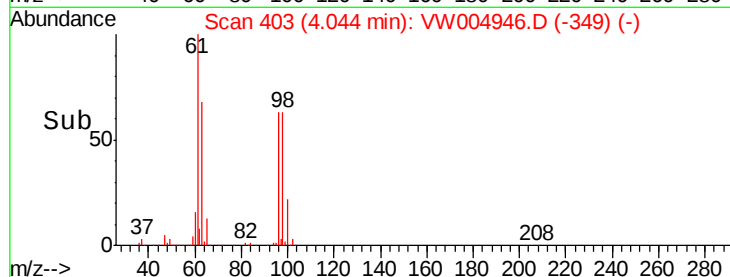
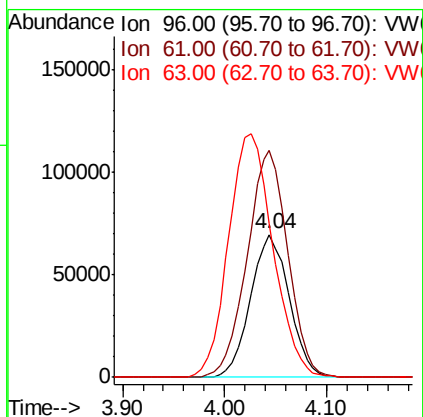
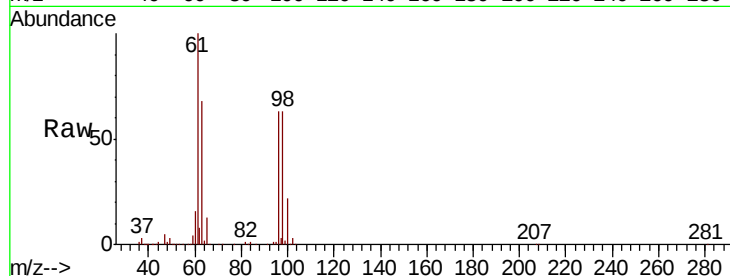
Tgt Ion: 96 Resp: 183746

Ion Ratio Lower Upper

96 100

61 158.8 107.0 198.8

63 107.2 76.9 142.7



#13

Acetone

Concen: 31.006 ug/L

RT: 4.15 min Scan# 420

Delta R.T. 0.01 min

Lab File: VW004946.D

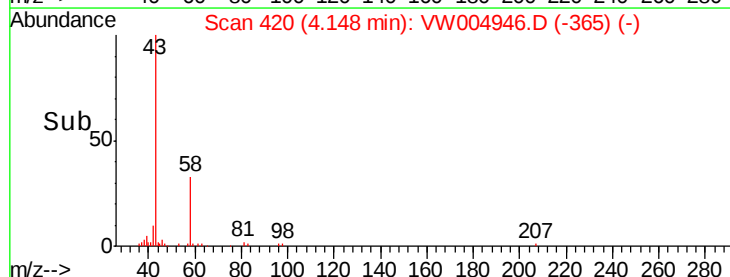
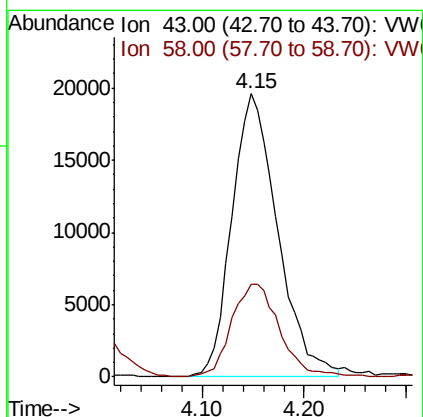
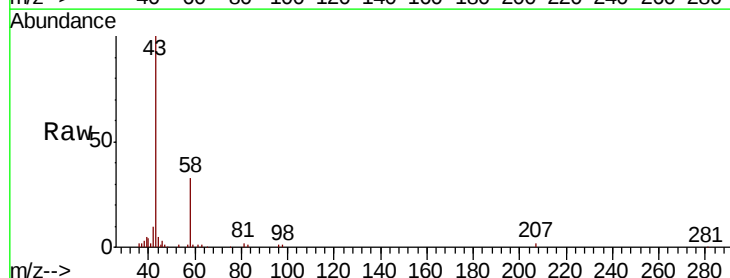
Acq: 24 Aug 2018 20:11

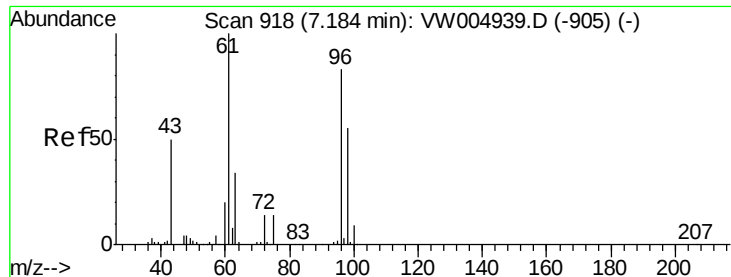
Tgt Ion: 43 Resp: 61005

Ion Ratio Lower Upper

43 100

58 33.2 0.0 69.4





#21

2-Butanone

Concen: 3.472 ug/L

RT: 7.18 min Scan# 918

Delta R.T. 0.00 min

Lab File: VW004946.D

Acq: 24 Aug 2018 20:11

Instrument :

MSVOA\_W

ClientSampleId :

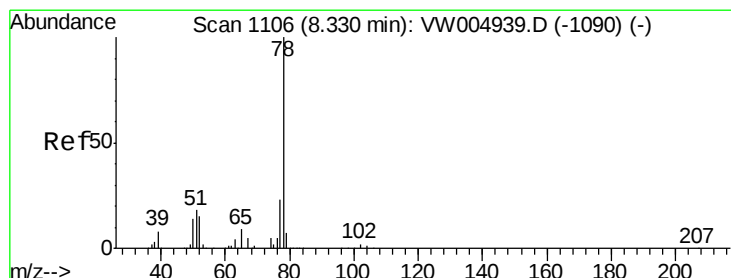
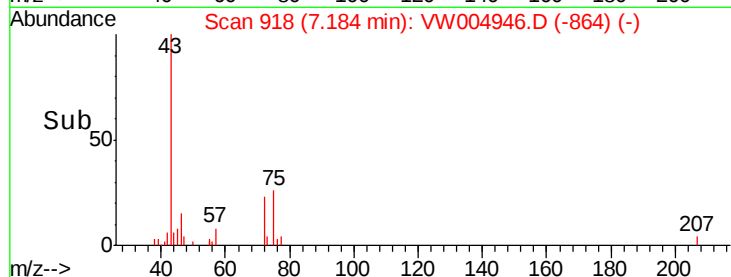
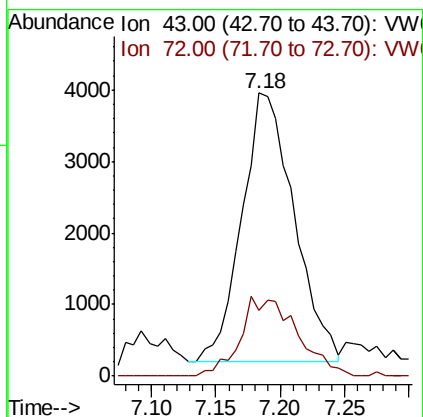
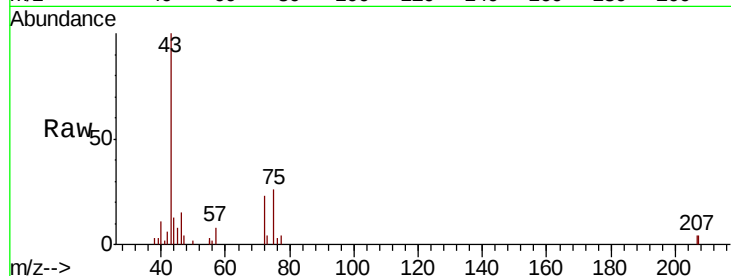
GAB80MSD

Tgt Ion: 43 Resp: 10518

Ion Ratio Lower Upper

43 100

72 19.5 14.2 42.8



#34

Benzene

Concen: 25.219 ug/L

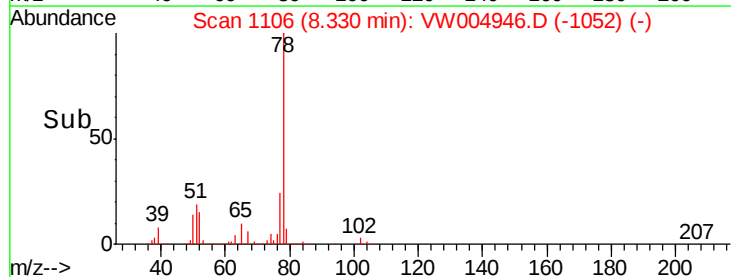
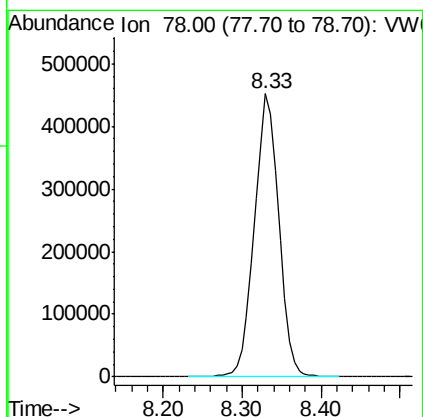
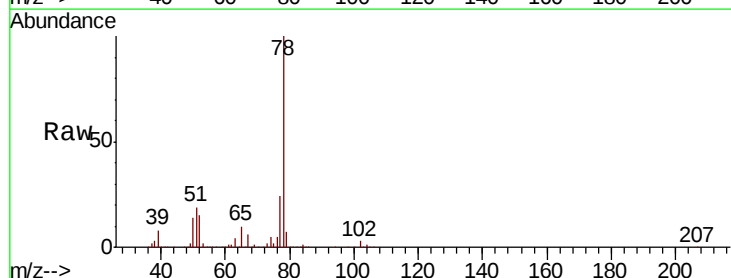
RT: 8.33 min Scan# 1106

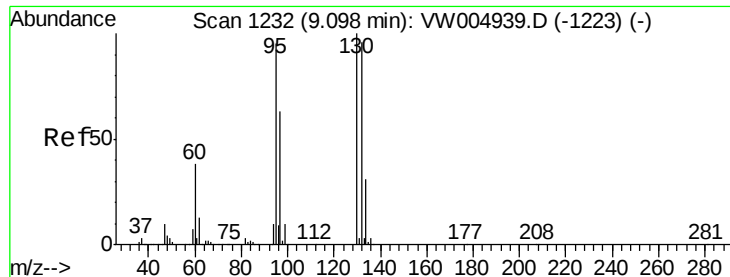
Delta R.T. 0.00 min

Lab File: VW004946.D

Acq: 24 Aug 2018 20:11

Tgt Ion: 78 Resp: 978270





#35

Trichloroethene

Concen: 22.682 ug/L

RT: 9.10 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VW004946.D

Acq: 24 Aug 2018 20:11

Instrument :

MSVOA\_W

ClientSampleId :

GAB80MSD

Tgt Ion: 95 Resp: 218782

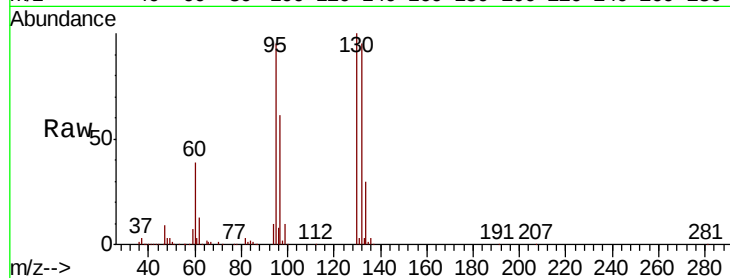
Ion Ratio Lower Upper

95 100

97 64.8 45.9 85.3

132 100.0 69.2 128.4

130 104.7 72.7 135.1

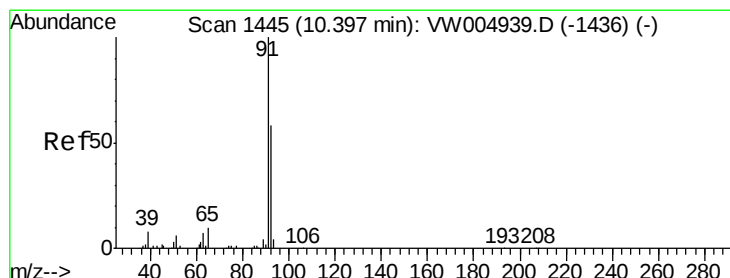
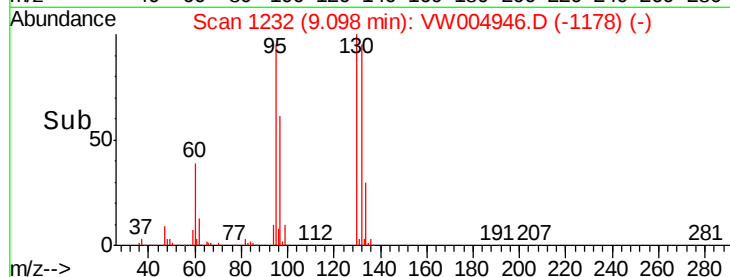
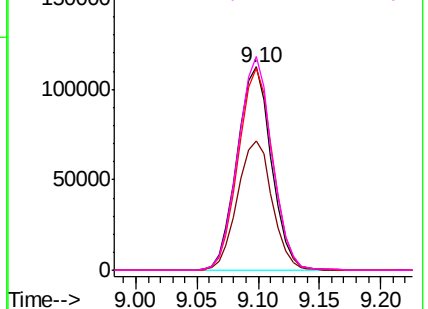


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#44

Toluene

Concen: 27.628 ug/L

RT: 10.40 min Scan# 1445

Delta R.T. 0.00 min

Lab File: VW004946.D

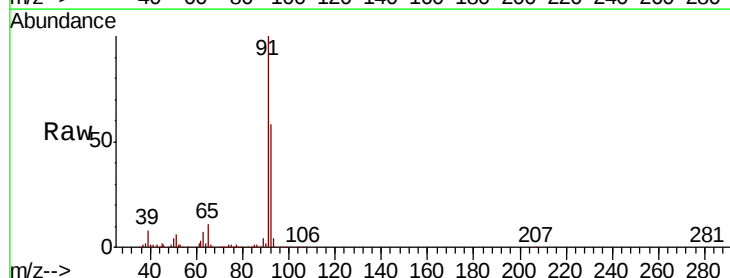
Acq: 24 Aug 2018 20:11

Tgt Ion: 91 Resp: 1287072

Ion Ratio Lower Upper

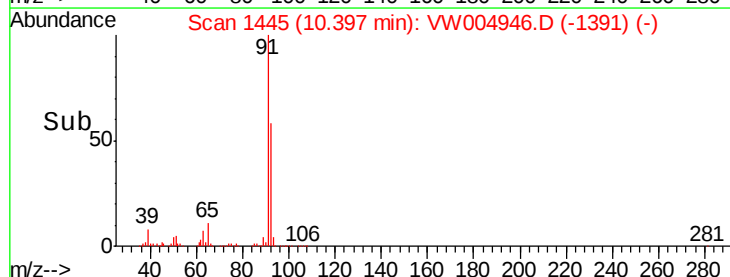
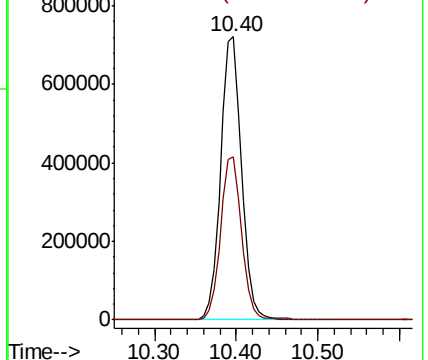
91 100

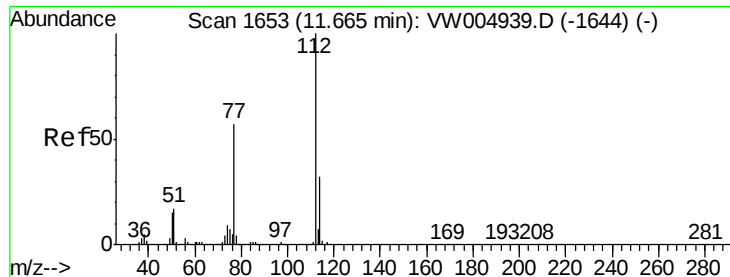
92 57.6 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW





#52

Chlorobenzene

Concen: 23.107 ug/L

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW004946.D

Acq: 24 Aug 2018 20:11

Instrument :

MSVOA\_W

ClientSampled :

GAB80MSD

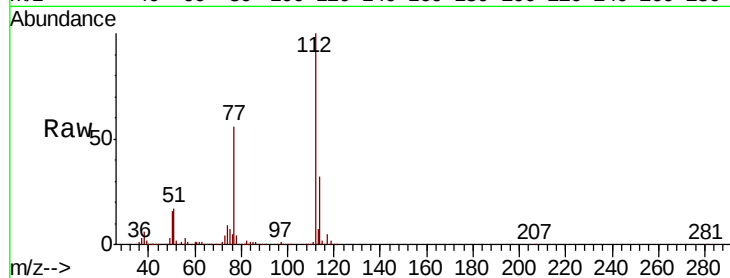
Tgt Ion: 112 Resp: 715079

Ion Ratio Lower Upper

112 100

77 55.8 45.8 68.8

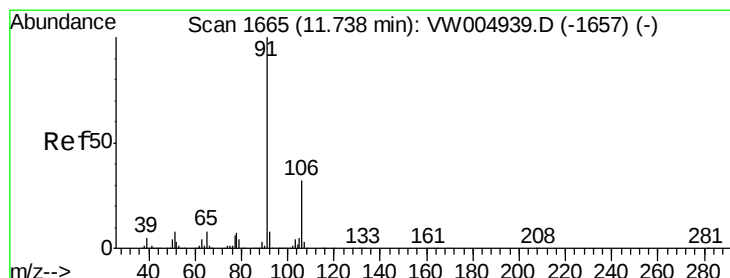
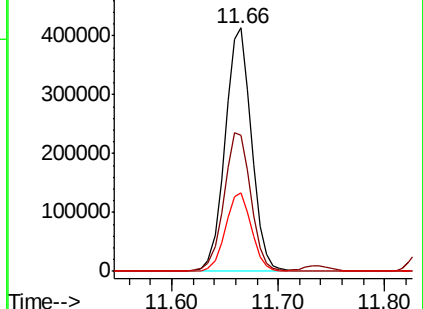
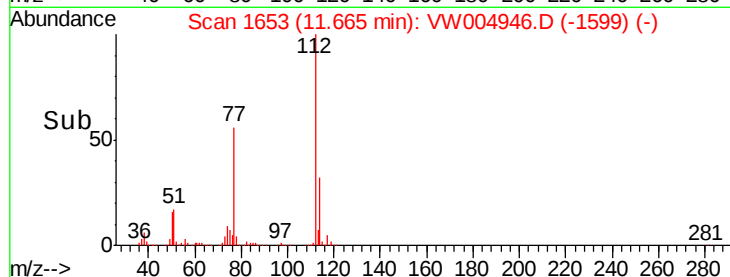
114 32.3 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 3.581 ug/L

RT: 11.74 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VW004946.D

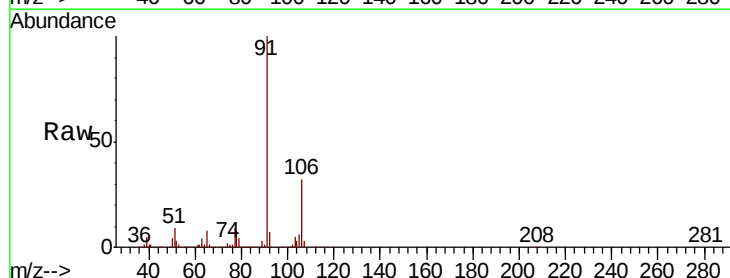
Acq: 24 Aug 2018 20:11

Tgt Ion: 91 Resp: 187730

Ion Ratio Lower Upper

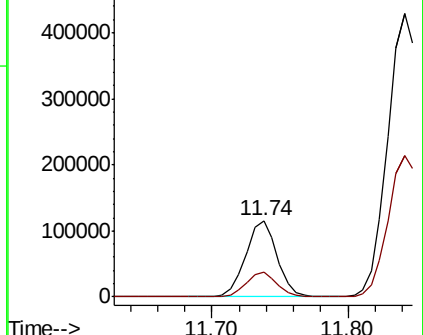
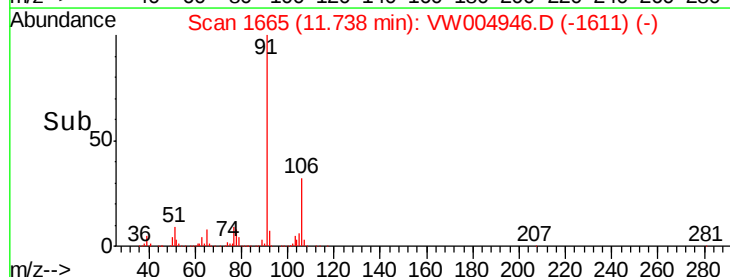
91 100

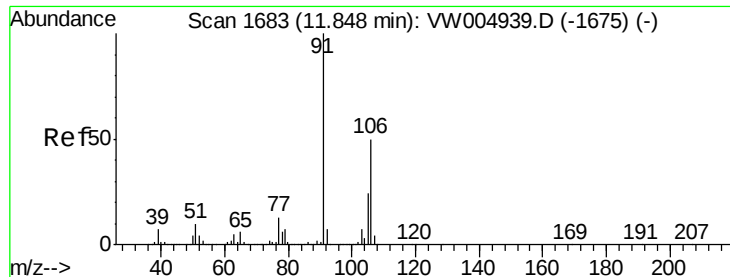
106 31.8 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 19.157 ug/L

RT: 11.84 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VW004946.D

Acq: 24 Aug 2018 20:11

Instrument :

MSVOA\_W

ClientSampleId :

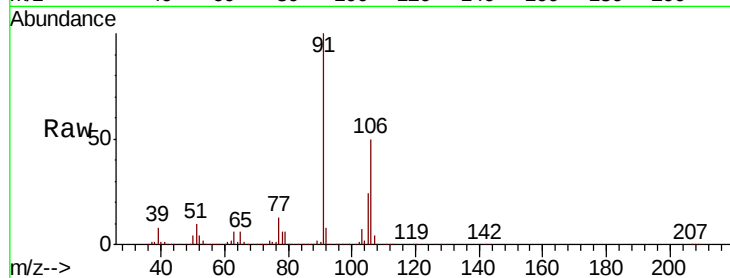
GAB80MSD

Tgt Ion:106 Resp: 389574

Ion Ratio Lower Upper

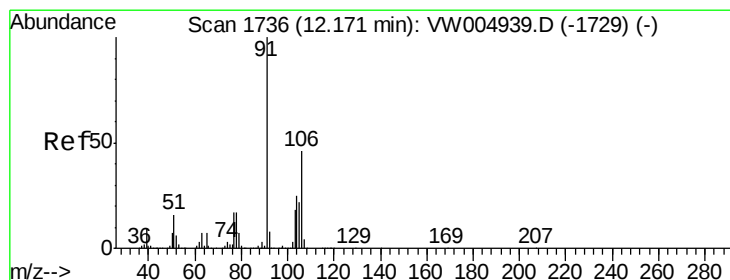
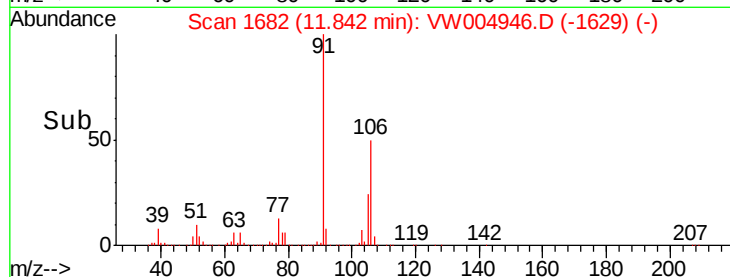
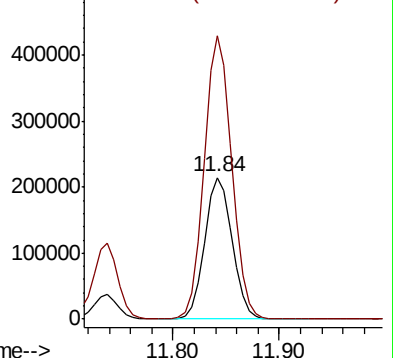
106 100

91 199.7 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 8.415 ug/L

RT: 12.17 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VW004946.D

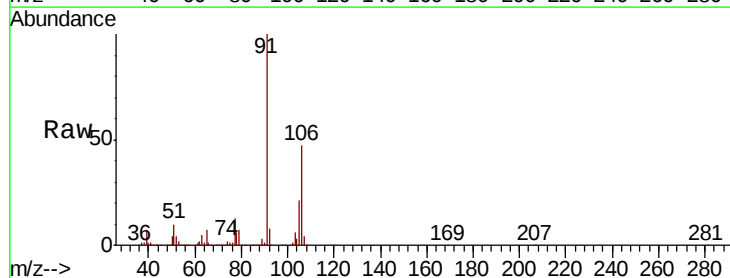
Acq: 24 Aug 2018 20:11

Tgt Ion:106 Resp: 159892

Ion Ratio Lower Upper

106 100

91 211.9 147.0 273.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

