

Data File : VW004994.D  
Acq On : 28 Aug 2018 18:59  
Operator : SY/AP  
Sample : J4678-04MSD  
Misc : 5.24G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
E5FC3MSD

Quant Time: Aug 29 05:16:12 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082218S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Aug 29 04:23:47 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 253485   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.64 | 117  | 311376   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 140250   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 92653    | 19.34    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 77.36%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 77473    | 21.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 87.24%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 115706   | 18.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 75.64%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 59948    | 61.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 122.96% |
| 24) Chloroform-d               | 7.65   | 84    | 128510   | 22.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 91.36%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 86263    | 28.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 112.84% |
| 29) Benzene-d6                 | 8.28   | 84    | 283607   | 17.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 70.84%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 90380    | 19.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 76.84%  |
| 37) Toluene-d8                 | 10.33  | 98    | 298272   | 17.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 70.32%  |
| 38) trans-1,3-Dichloropropene- | 10.59  | 79    | 40035    | 19.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 79.08%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 54238    | 46.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 93.04%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 118879   | 25.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 100.56% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 135897   | 24.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.48%  |

#### Target Compounds

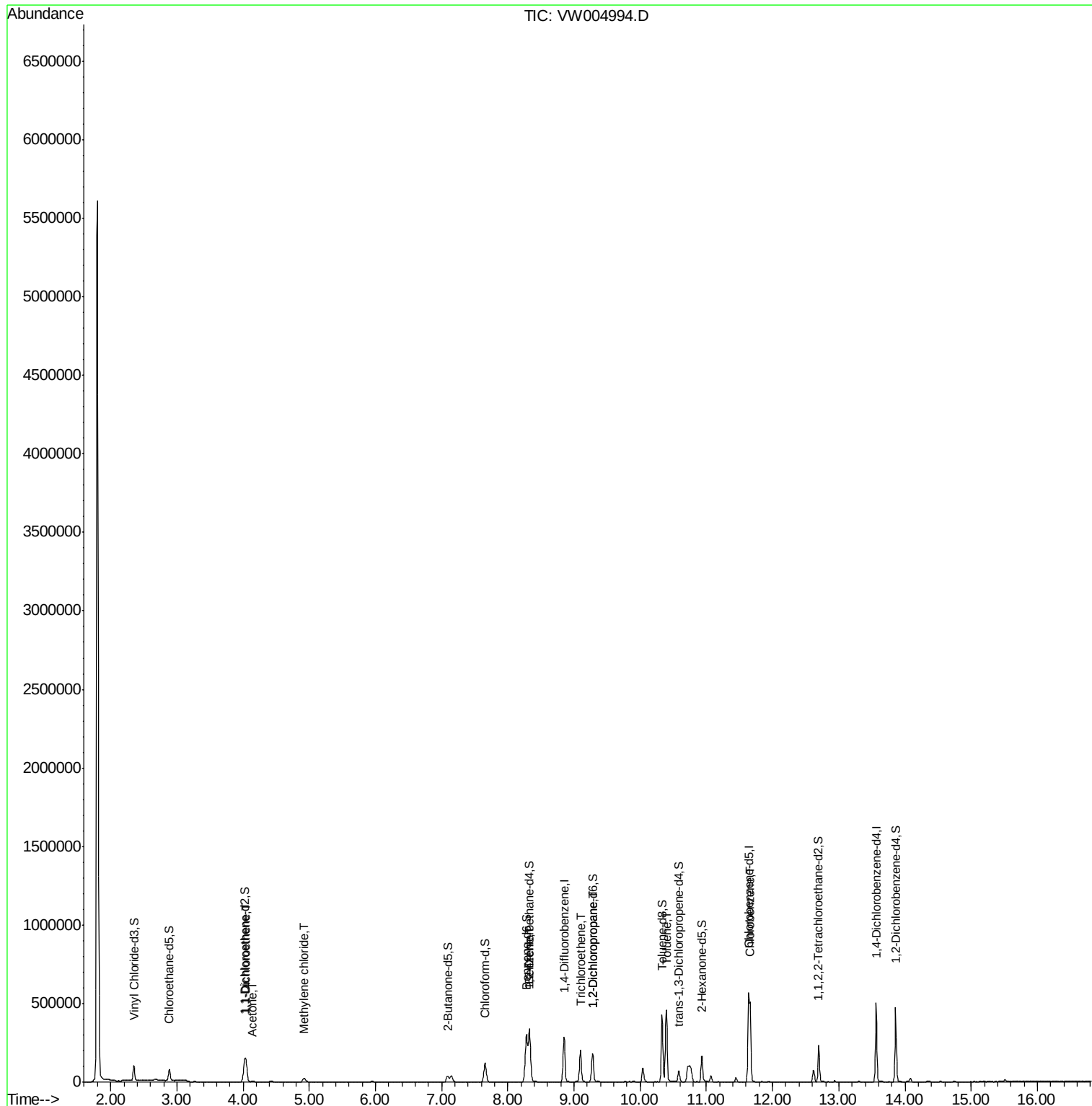
|                         |       |     |        |        |        | Qvalue |
|-------------------------|-------|-----|--------|--------|--------|--------|
| 12) 1,1-Dichloroethene  | 4.04  | 96  | 57989  | 19.650 | ug/L   | 92     |
| 13) Acetone             | 4.14  | 43  | 4556   | 6.032  | ug/L   | 62     |
| 16) Methylene chloride  | 4.92  | 84  | 18077  | 3.678  | ug/L   | 94     |
| 34) Benzene             | 8.33  | 78  | 295089 | 16.621 | ug/L   | 100    |
| 35) Trichloroethene     | 9.10  | 95  | 72699  | 16.467 | ug/L   | 98     |
| 40) 1,2-Dichloropropane | 9.28  | 63  | 9307   | 2.131  | ug/L # | 90     |
| 44) Toluene             | 10.40 | 91  | 362358 | 16.995 | ug/L   | 98     |
| 52) Chlorobenzene       | 11.66 | 112 | 257327 | 18.168 | ug/L   | 99     |

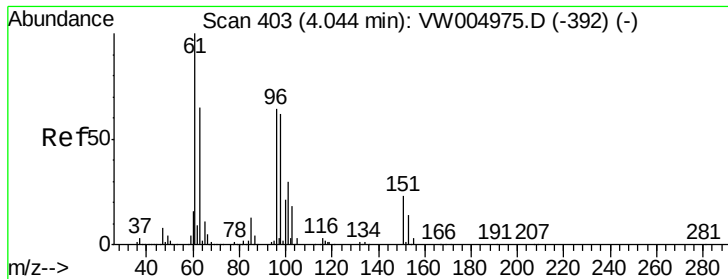
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 19.650 ug/L

RT: 4.04 min Scan# 403

Delta R.T. -0.01 min

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Instrument :

MSVOA\_W

ClientSampleId :

E5FC3MSD

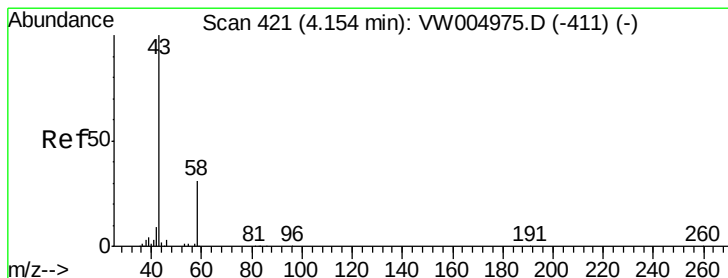
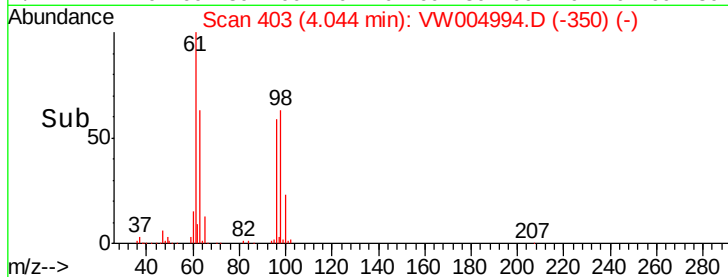
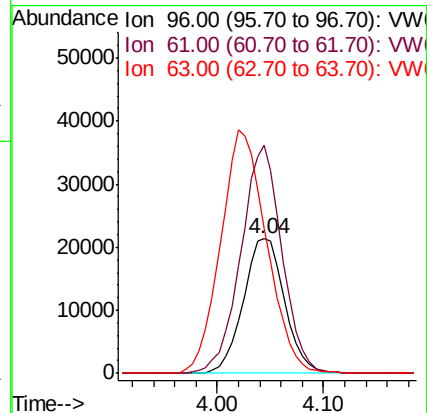
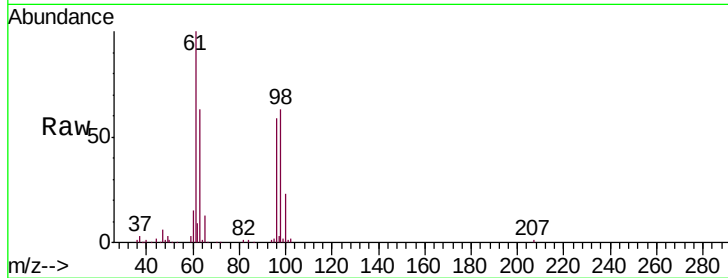
Tgt Ion: 96 Resp: 57989

Ion Ratio Lower Upper

96 100

61 169.8 107.0 198.8

63 107.7 76.9 142.7



#13

Acetone

Concen: 6.032 ug/L

RT: 4.14 min Scan# 418

Delta R.T. -0.01 min

Lab File: VW004994.D

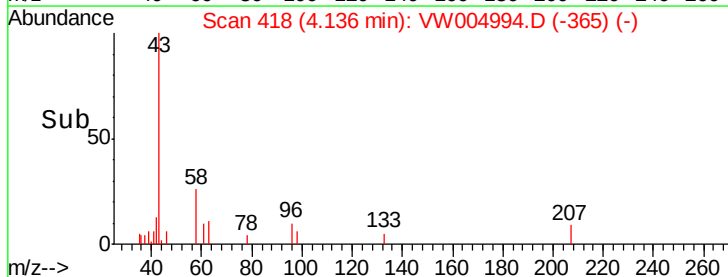
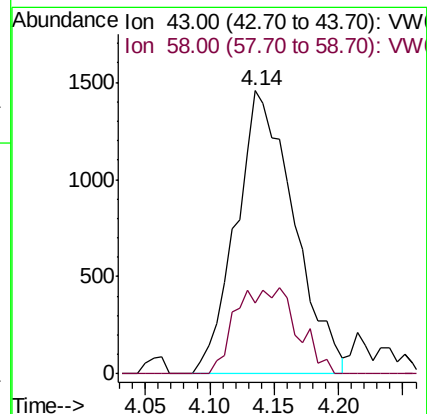
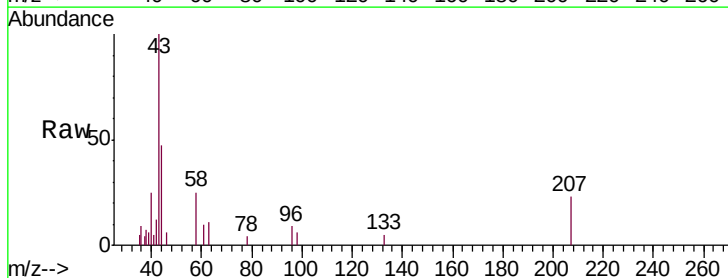
Acq: 28 Aug 2018 18:59

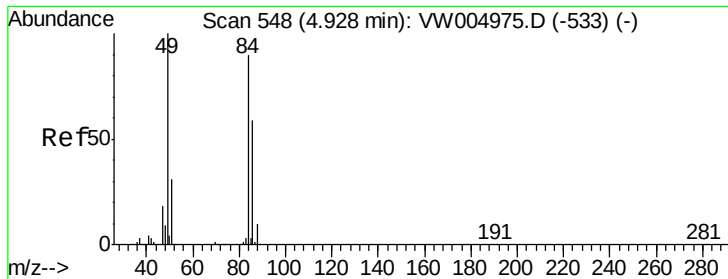
Tgt Ion: 43 Resp: 4556

Ion Ratio Lower Upper

43 100

58 12.9 0.0 69.4

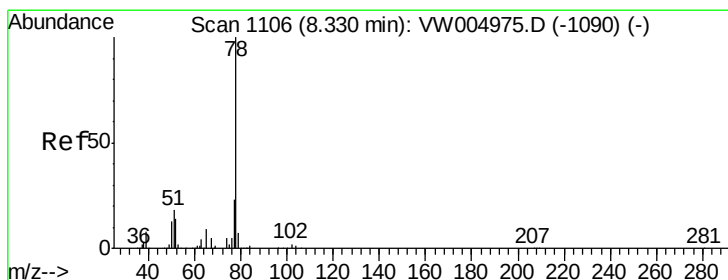
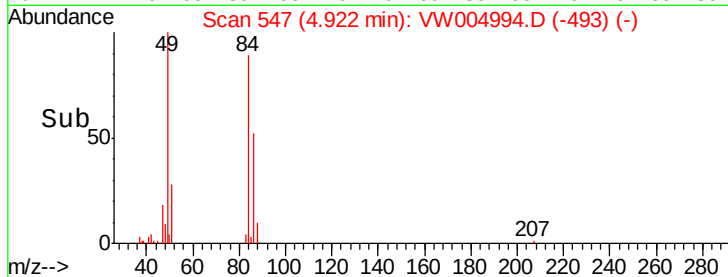
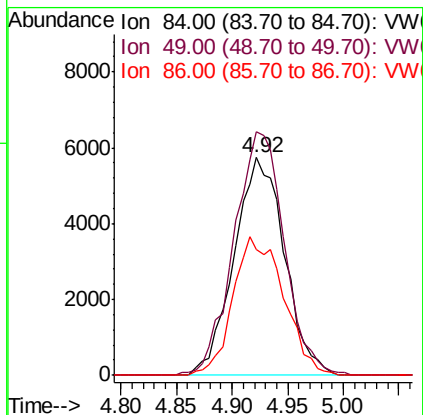
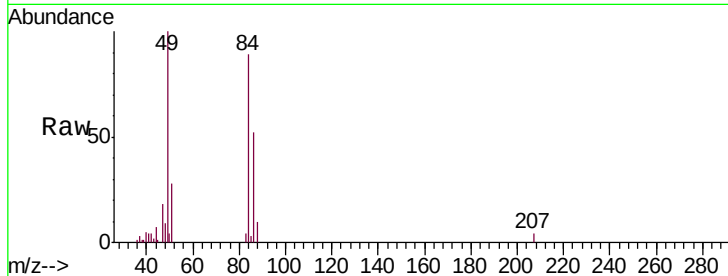




#16  
Methylene chloride  
Concen: 3.678 ug/L  
RT: 4.92 min Scan# 547  
Delta R.T. 0.00 min  
Lab File: VW004994.D  
Acq: 28 Aug 2018 18:59

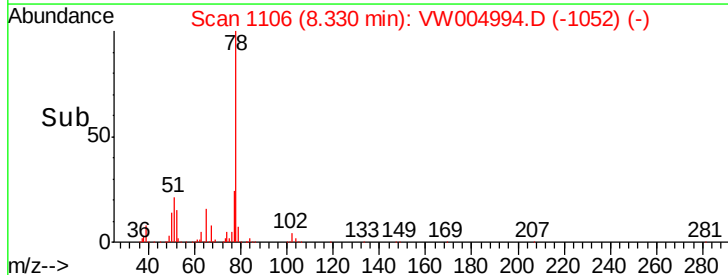
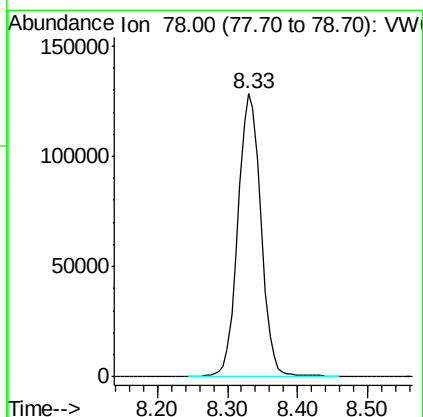
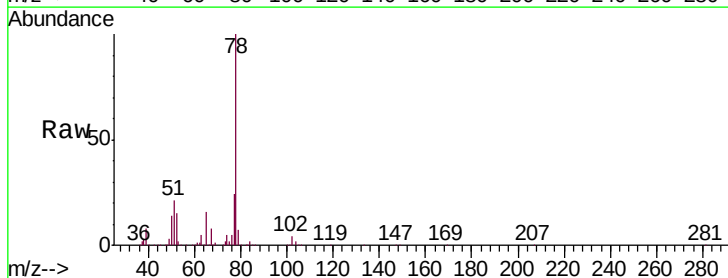
Instrument :  
MSVOA\_W  
ClientSampleId :  
E5FC3MSD

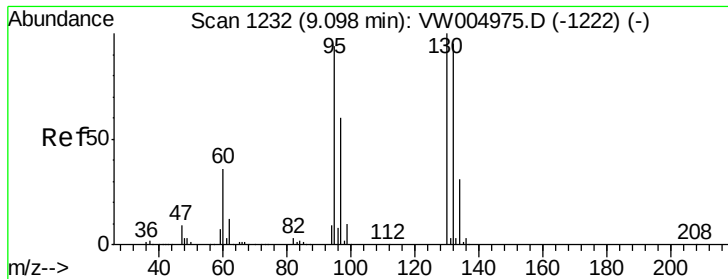
Tgt Ion: 84 Resp: 18077  
Ion Ratio Lower Upper  
84 100  
49 111.8 83.8 155.6  
86 57.7 42.6 79.0



#34  
Benzene  
Concen: 16.621 ug/L  
RT: 8.33 min Scan# 1106  
Delta R.T. 0.00 min  
Lab File: VW004994.D  
Acq: 28 Aug 2018 18:59

Tgt Ion: 78 Resp: 295089

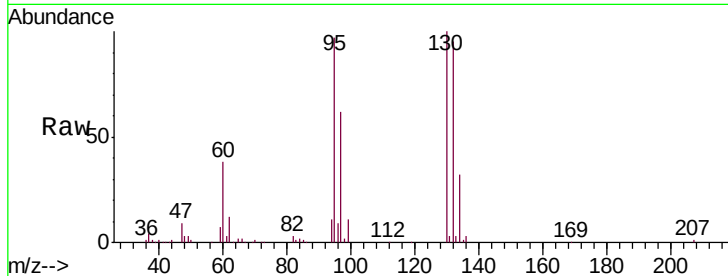




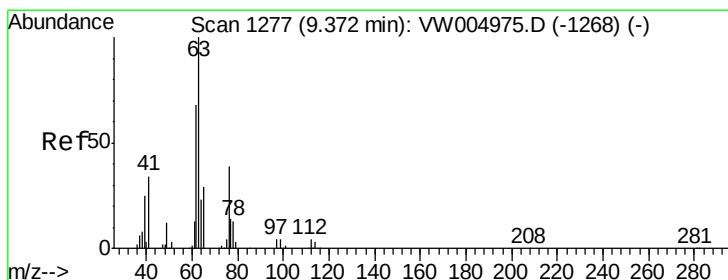
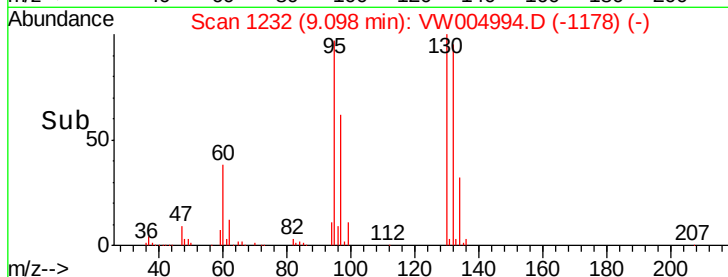
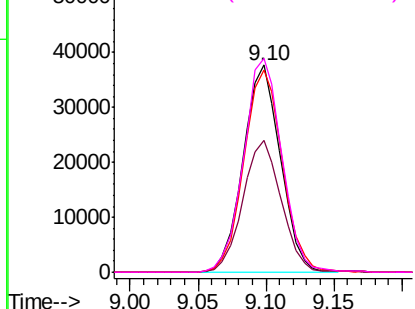
#35  
 Trichloroethene  
 Concen: 16.467 ug/L  
 RT: 9.10 min Scan# 1232  
 Delta R.T. 0.00 min  
 Lab File: VW004994.D  
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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 E5FC3MSD

Tgt Ion: 95 Resp: 72699  
 Ion Ratio Lower Upper  
 95 100  
 97 65.4 45.9 85.3  
 132 100.8 69.2 128.4  
 130 105.7 72.7 135.1

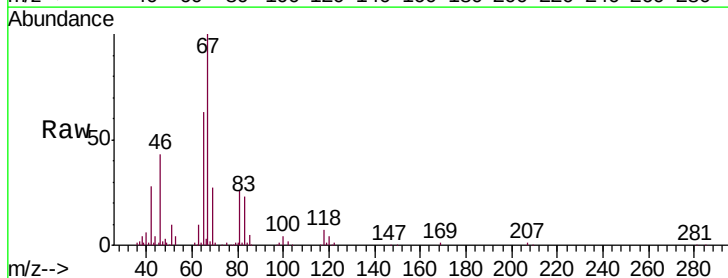


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

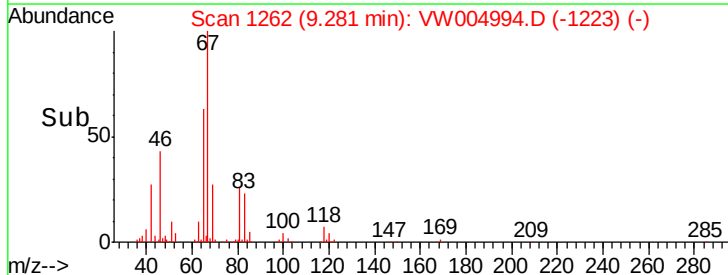
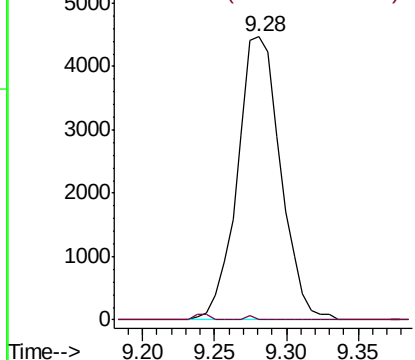


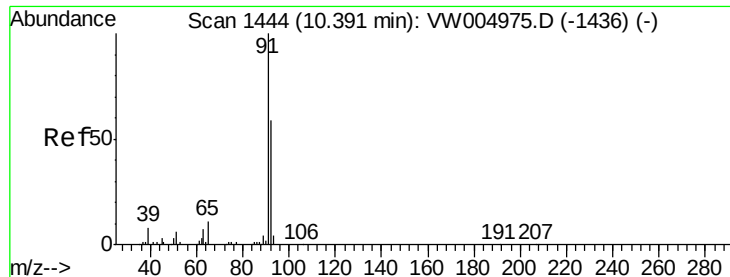
#40  
 1,2-Dichloropropane  
 Concen: 2.131 ug/L  
 RT: 9.28 min Scan# 1262  
 Delta R.T. -0.09 min  
 Lab File: VW004994.D  
 Acq: 28 Aug 2018 18:59

Tgt Ion: 63 Resp: 9307  
 Ion Ratio Lower Upper  
 63 100  
 112 0.7 3.2 4.8#



Abundance Ion 63.00 (62.70 to 63.70): VW  
 Ion 112.00 (111.70 to 112.70): V





#44

Toluene

Concen: 16.995 ug/L

RT: 10.40 min Scan# 1445

Delta R.T. 0.00 min

Lab File: VW004994.D

Acq: 28 Aug 2018 18:59

Instrument :

MSVOA\_W

ClientSampleId :

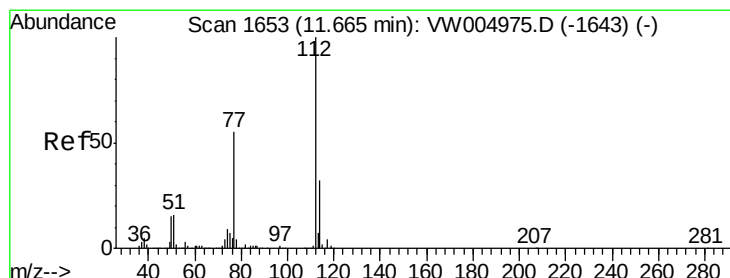
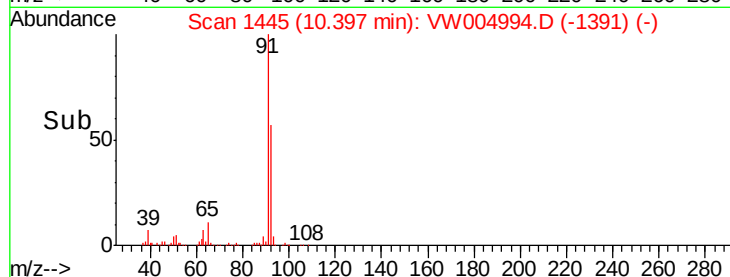
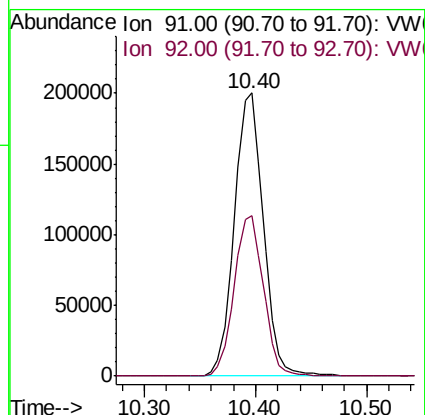
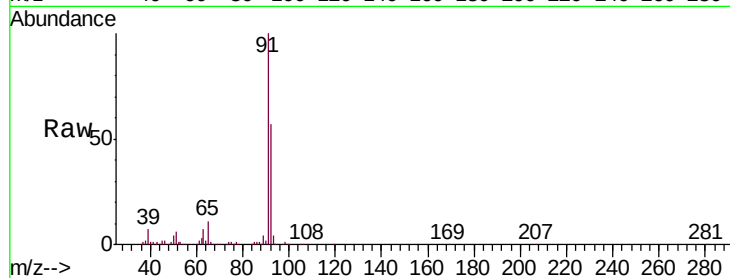
E5FC3MSD

Tgt Ion: 91 Resp: 362358

Ion Ratio Lower Upper

91 100

92 56.6 40.6 75.4



#52

Chlorobenzene

Concen: 18.168 ug/L

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW004994.D

Acq: 28 Aug 2018 18:59

Tgt Ion: 112 Resp: 257327

Ion Ratio Lower Upper

112 100

77 56.3 45.8 68.8

114 31.8 22.5 41.7

