

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081818\  
 Data File : VW004730.D  
 Acq On : 16 Aug 2018 14:49  
 Operator : SY/AP  
 Sample : J4450-11MSD  
 Misc : 1.32G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 16 18:26:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081418S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 16 02:39:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 743208   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 657560   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 191099   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 247950   | 20.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 83.96%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 198177   | 21.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 86.80%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 484409   | 22.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 89.68%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 162666   | 50.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.78% |
| 24) Chloroform-d               | 7.65   | 84    | 472115   | 23.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 94.80%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 272427   | 25.82    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 103.28% |
| 29) Benzene-d6                 | 8.28   | 84    | 908050   | 24.62    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 98.48%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 307555   | 26.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 107.40% |
| 37) Toluene-d8                 | 10.33  | 98    | 734423   | 22.20    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 88.80%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 118116   | 25.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 101.60% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 141746   | 61.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 123.84% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70  | 84    | 275059   | 25.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 102.40% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 174123   | 24.02    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.08%  |

## Target Compounds

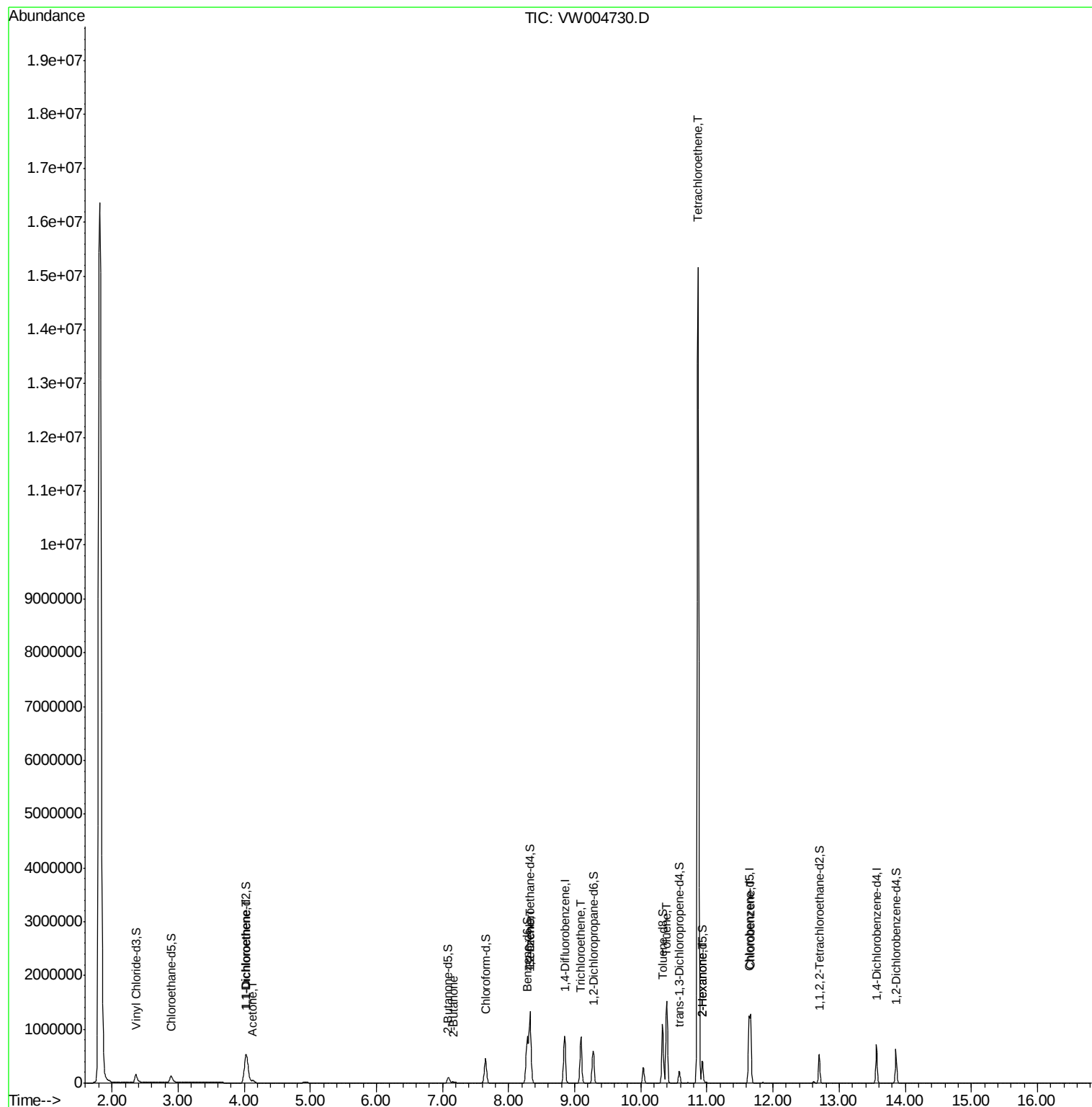
|                        |       |     |         |              | Ovalue |
|------------------------|-------|-----|---------|--------------|--------|
| 12) 1,1-Dichloroethene | 4.04  | 96  | 265045  | 23.817 ug/L  | 98     |
| 13) Acetone            | 4.14  | 43  | 49193   | 16.773 ug/L  | 100    |
| 21) 2-Butanone         | 7.18  | 43  | 16388   | 3.995 ug/L # | 63     |
| 34) Benzene            | 8.32  | 78  | 1152857 | 27.543 ug/L  | 100    |
| 35) Trichloroethene    | 9.09  | 95  | 315821  | 29.983 ug/L  | 99     |
| 44) Toluene            | 10.39 | 91  | 1134606 | 26.770 ug/L  | 100    |
| 47) Tetrachloroethene  | 10.87 | 164 | 3530797 | 404.027 ug/L | 99     |
| 49) 2-Hexanone         | 10.93 | 43  | 19880   | 3.881 ug/L # | 59     |
| 52) Chlorobenzene      | 11.66 | 112 | 651910  | 23.036 ug/L  | 100    |

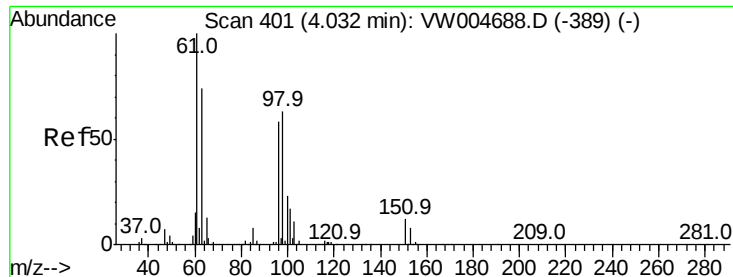
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J4450-11MSD  
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Quant Time: Aug 16 18:26:56 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081418S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 16 02:39:24 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 23.817 ug/L

RT: 4.04 min Scan# 402

Delta R.T. 0.00 min

Lab File: VW004730.D

Acq: 16 Aug 2018 14:49

Instrument :

MSVOA\_W

ClientSampleId :

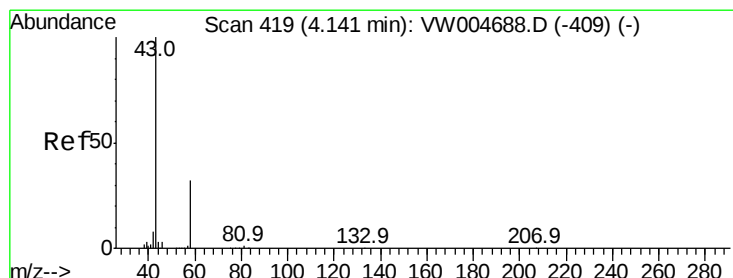
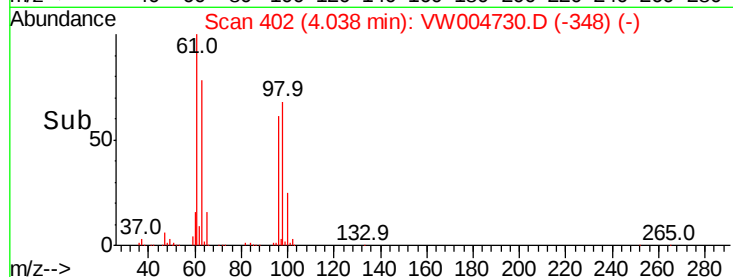
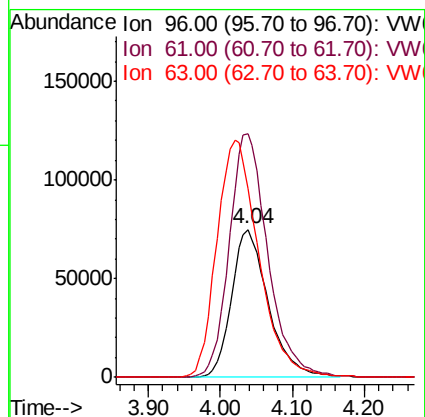
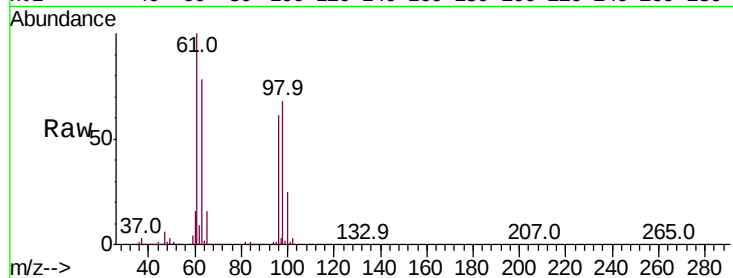
Tot Ion: 96 Resp: 265045

Ion Ratio Lower Upper

96 100

61 164.4 118.9 220.7

63 127.5 88.9 165.1



#13

Acetone

Concen: 16.773 ug/L

RT: 4.14 min Scan# 418

Delta R.T. 0.00 min

Lab File: VW004730.D

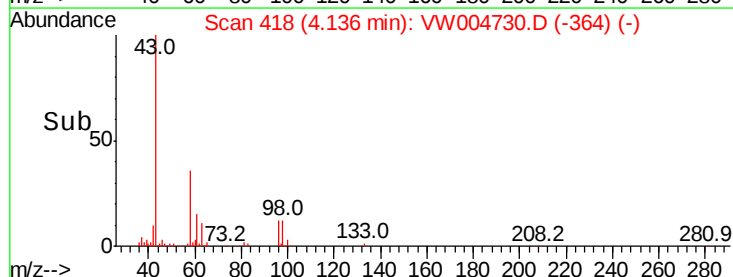
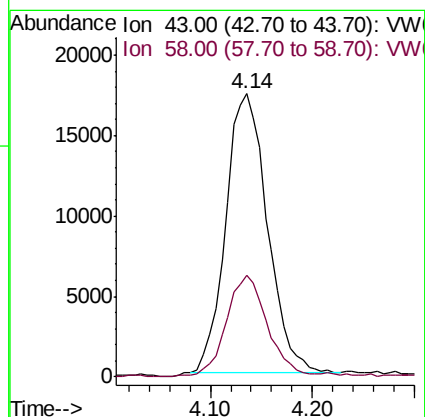
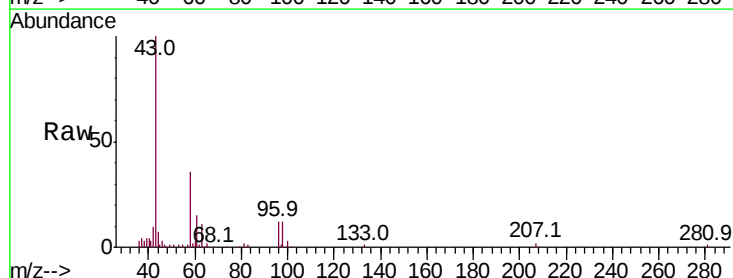
Acq: 16 Aug 2018 14:49

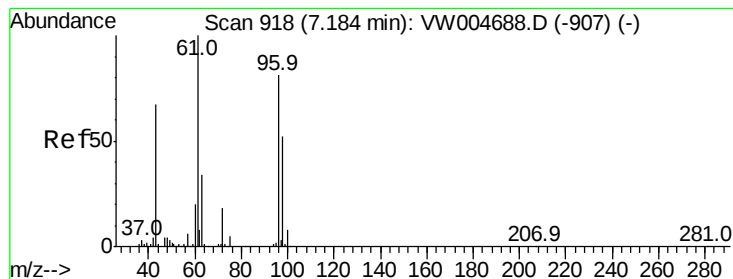
Tgt Ion: 43 Resp: 49193

Ion Ratio Lower Upper

43 100

58 34.9 0.0 69.4





#21

2-Butanone

Concen: 3.995 ug/L

RT: 7.18 min Scan# 917

Delta R.T. 0.00 min

Lab File: VW004730.D

Acq: 16 Aug 2018 14:49

Instrument :

MSVOA\_W

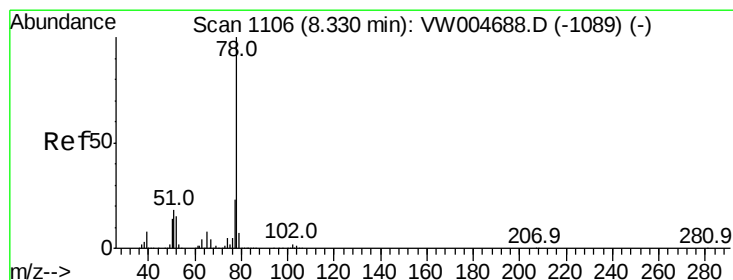
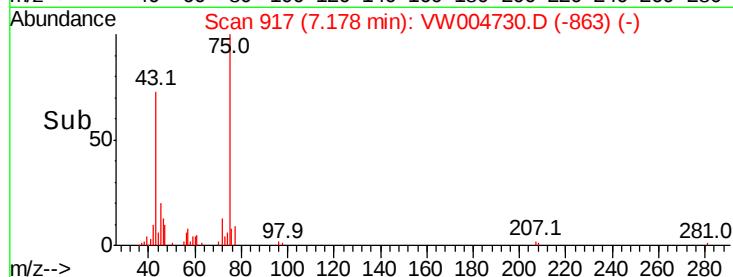
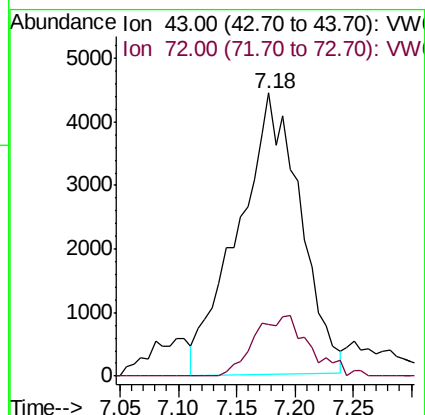
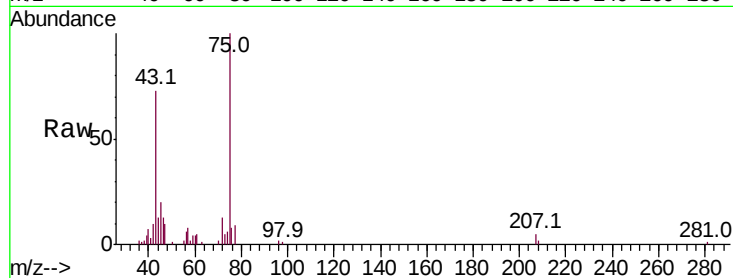
ClientSampleId :

Tot Ion: 43 Resp: 16388

Ion Ratio Lower Upper

43 100

72 8.8 14.1 42.2#



#34

Benzene

Concen: 27.543 ug/L

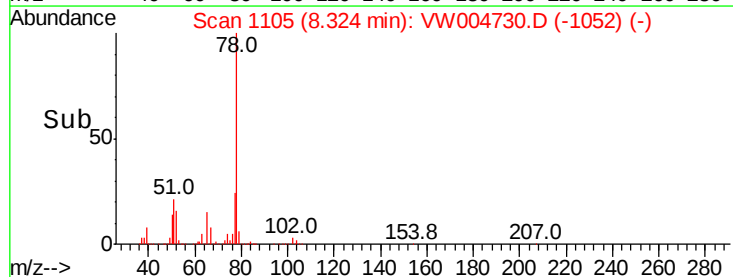
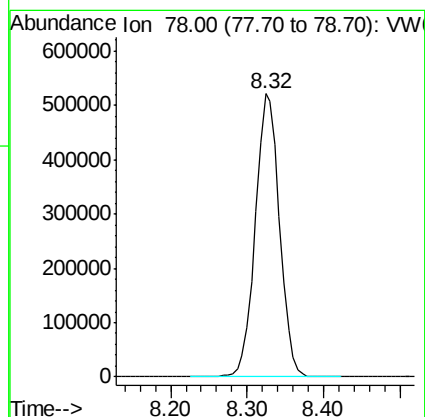
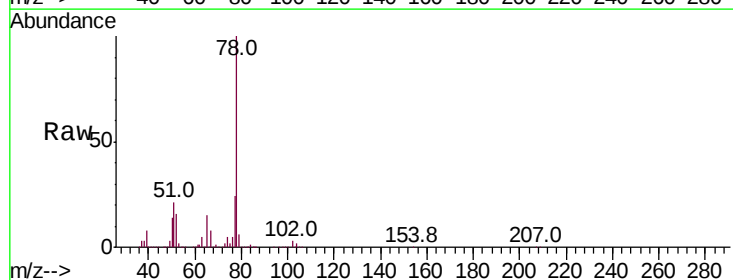
RT: 8.32 min Scan# 1105

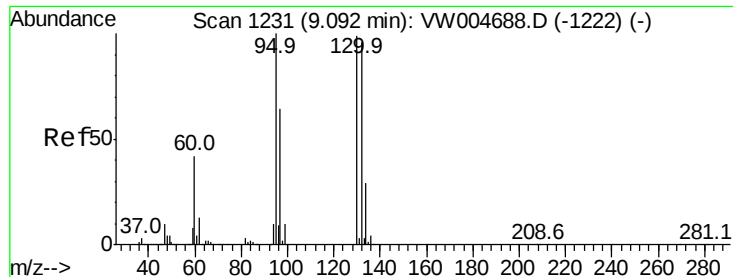
Delta R.T. -0.01 min

Lab File: VW004730.D

Acq: 16 Aug 2018 14:49

Tgt Ion: 78 Resp: 1152857





#35

Trichloroethene

Concen: 29.983 ug/L

RT: 9.09 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VW004730.D

Acq: 16 Aug 2018 14:49

Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 95 Resp: 315821

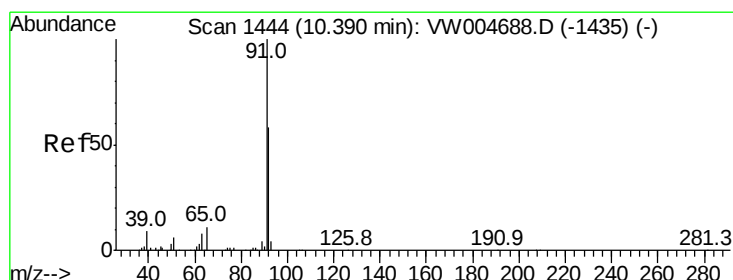
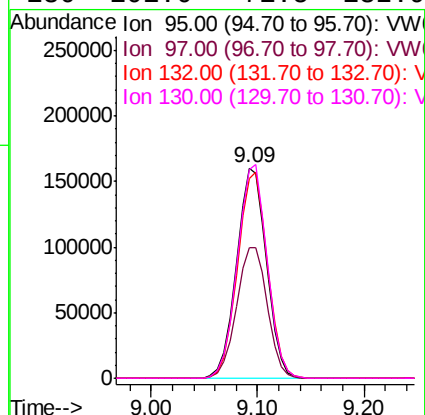
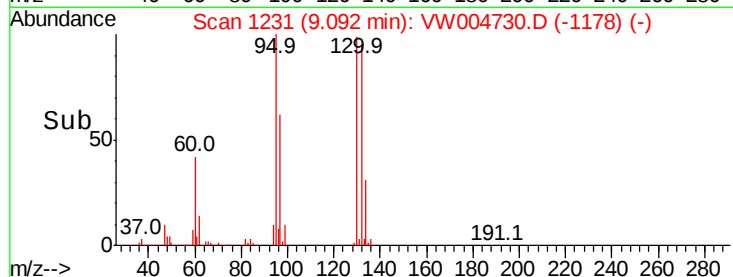
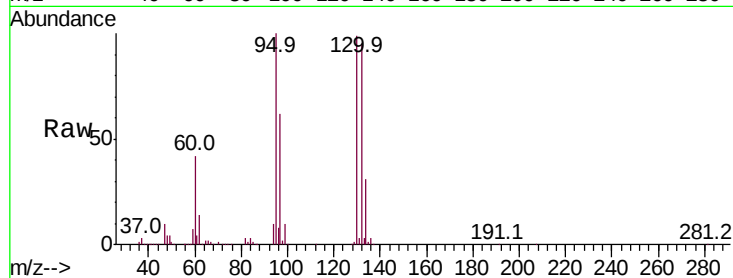
Ion Ratio Lower Upper

95 100

97 64.0 45.1 83.9

132 98.0 68.8 127.8

130 101.0 71.5 132.9



#44

Toluene

Concen: 26.770 ug/L

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW004730.D

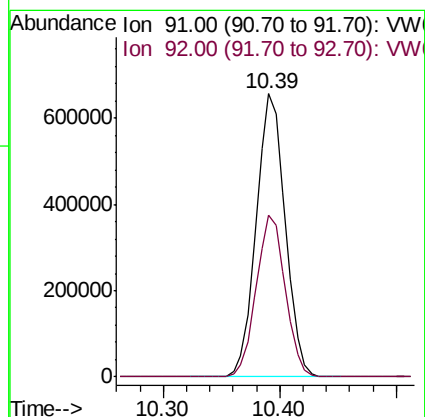
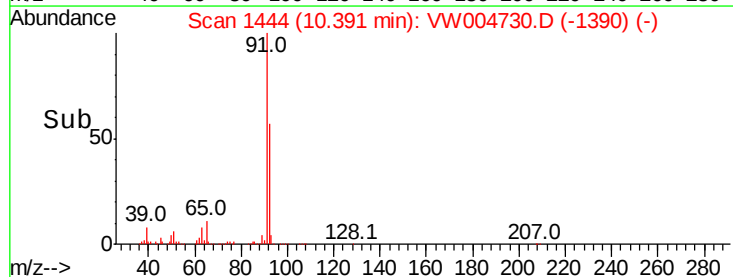
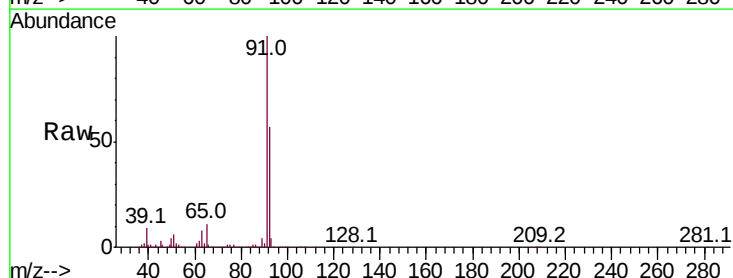
Acq: 16 Aug 2018 14:49

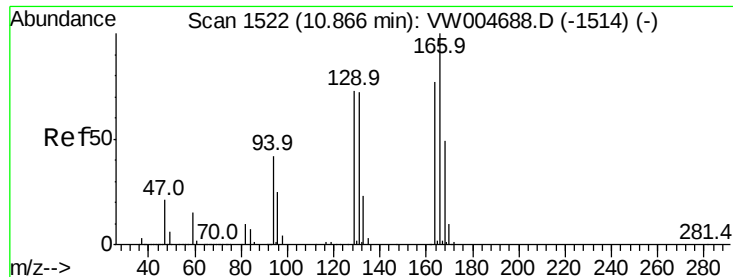
Tgt Ion: 91 Resp: 1134606

Ion Ratio Lower Upper

91 100

92 57.3 40.3 74.8

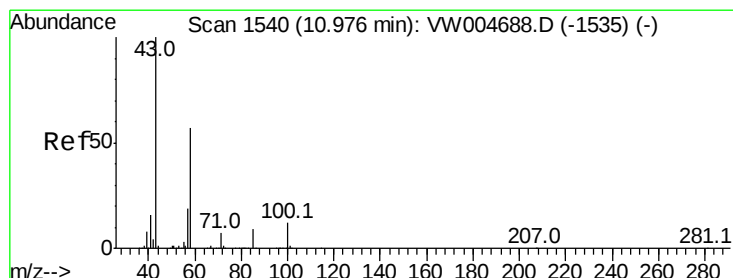
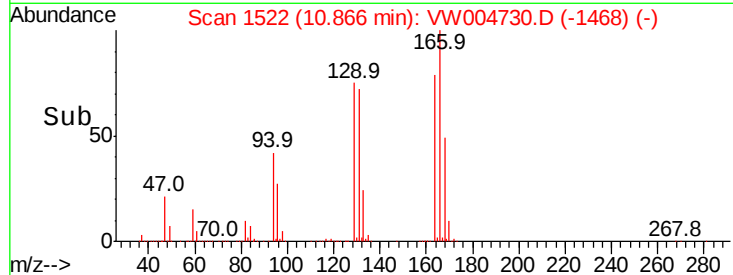
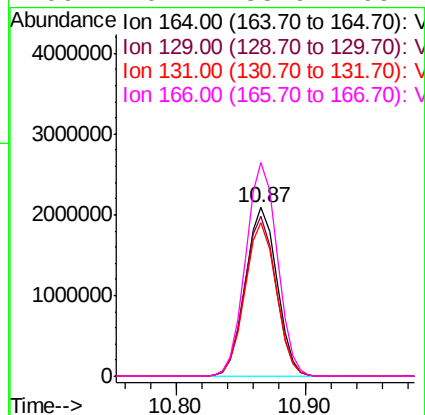
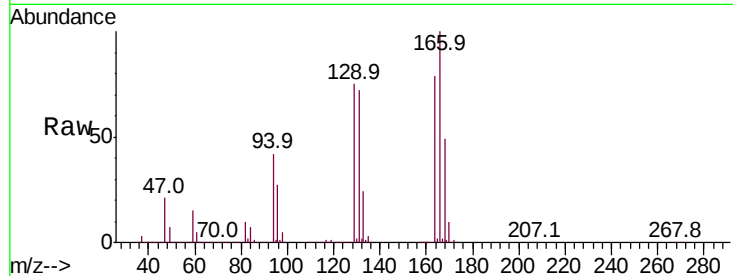




#47  
Tetrachloroethene  
Concen: 404.027 ug/L  
RT: 10.87 min Scan# 1522  
Delta R.T. 0.00 min  
Lab File: VW004730.D  
Acq: 16 Aug 2018 14:49

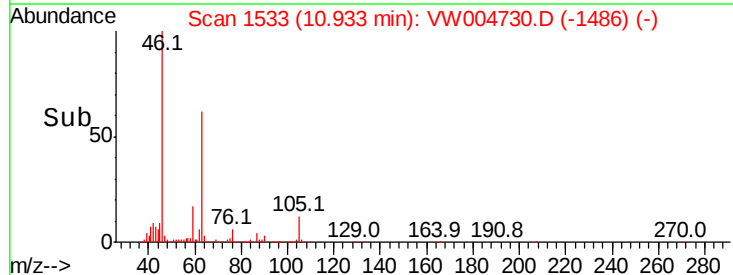
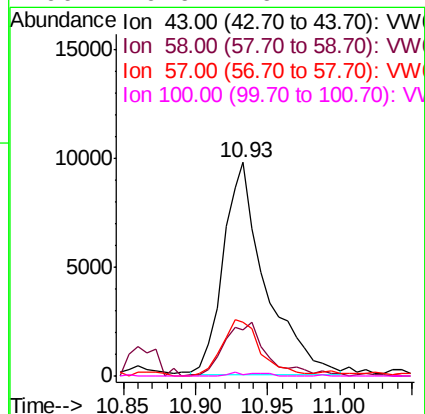
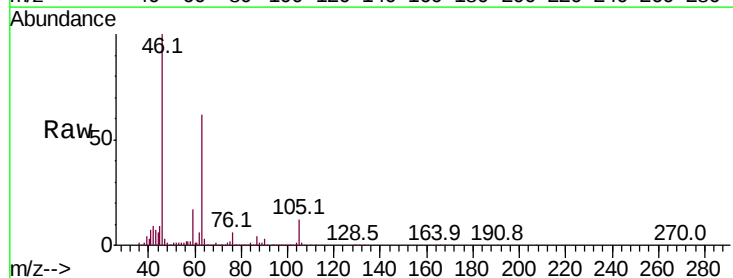
Instrument :  
MSVOA\_W  
ClientSampleId :

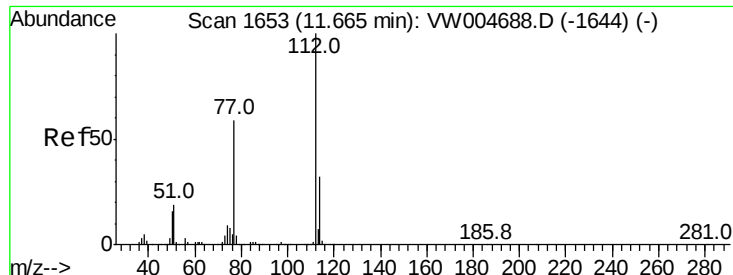
Tot Ion:164 Resp: 3530797  
Ion Ratio Lower Upper  
164 100  
129 94.8 65.0 120.6  
131 91.3 62.2 115.4  
166 126.7 88.9 165.1



#49  
2-Hexanone  
Concen: 3.881 ug/L  
RT: 10.93 min Scan# 1533  
Delta R.T. -0.04 min  
Lab File: VW004730.D  
Acq: 16 Aug 2018 14:49

Tgt Ion: 43 Resp: 19880  
Ion Ratio Lower Upper  
43 100  
58 23.5 44.4 66.6#  
57 0.0 14.8 22.2#  
100 0.6 9.4 14.2#





#52

Chlorobenzene

Concen: 23.036 ug/L

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW004730.D

Acq: 16 Aug 2018 14:49

Instrument :

MSVOA\_W

ClientSampleId :

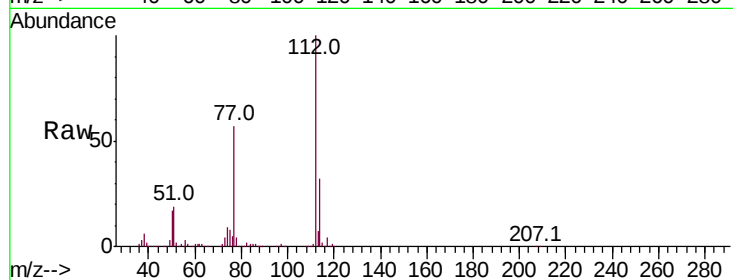
Tot Ion:112 Resp: 651910

Ion Ratio Lower Upper

112 100

77 57.5 46.0 69.0

114 31.6 22.3 41.5



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

