

Data File : VW010098.D  
Acq On : 23 Apr 2019 14:36  
Operator : SY/VA  
Sample : K2456-16  
Misc : 5.03G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAHN6

Quant Time: Apr 24 03:54:50 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041519S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 24 03:51:20 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 118430   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 110107   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 35698    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 23338    | 20.85    | ug/L | -0.01  |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 83.40% |
| 7) Chloroethane-d5             | 3.08   | 69    | 281      | 0.25     | ug/L | 0.19   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 1.00%# |
| 10) 1,1-Dichloroethene-d2      | 4.00   | 63    | 50511    | 16.27    | ug/L | -0.01  |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 65.08% |
| 20) 2-Butanone-d5              | 7.19   | 46    | 429      | 0.71     | ug/L | 0.12   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 1.42%# |
| 24) Chloroform-d               | 7.64   | 84    | 69701    | 20.36    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 81.44% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 47028    | 22.14    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 88.56% |
| 29) Benzene-d6                 | 8.27   | 84    | 134100   | 22.16    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 88.64% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 44916    | 23.30    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.20% |
| 37) Toluene-d8                 | 10.32  | 98    | 106770   | 19.34    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 77.36% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 17999    | 19.70    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 78.80% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 17927    | 41.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 83.96% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 36033    | 19.99    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 79.96% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 27690    | 20.63    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 82.52% |

#### Target Compounds

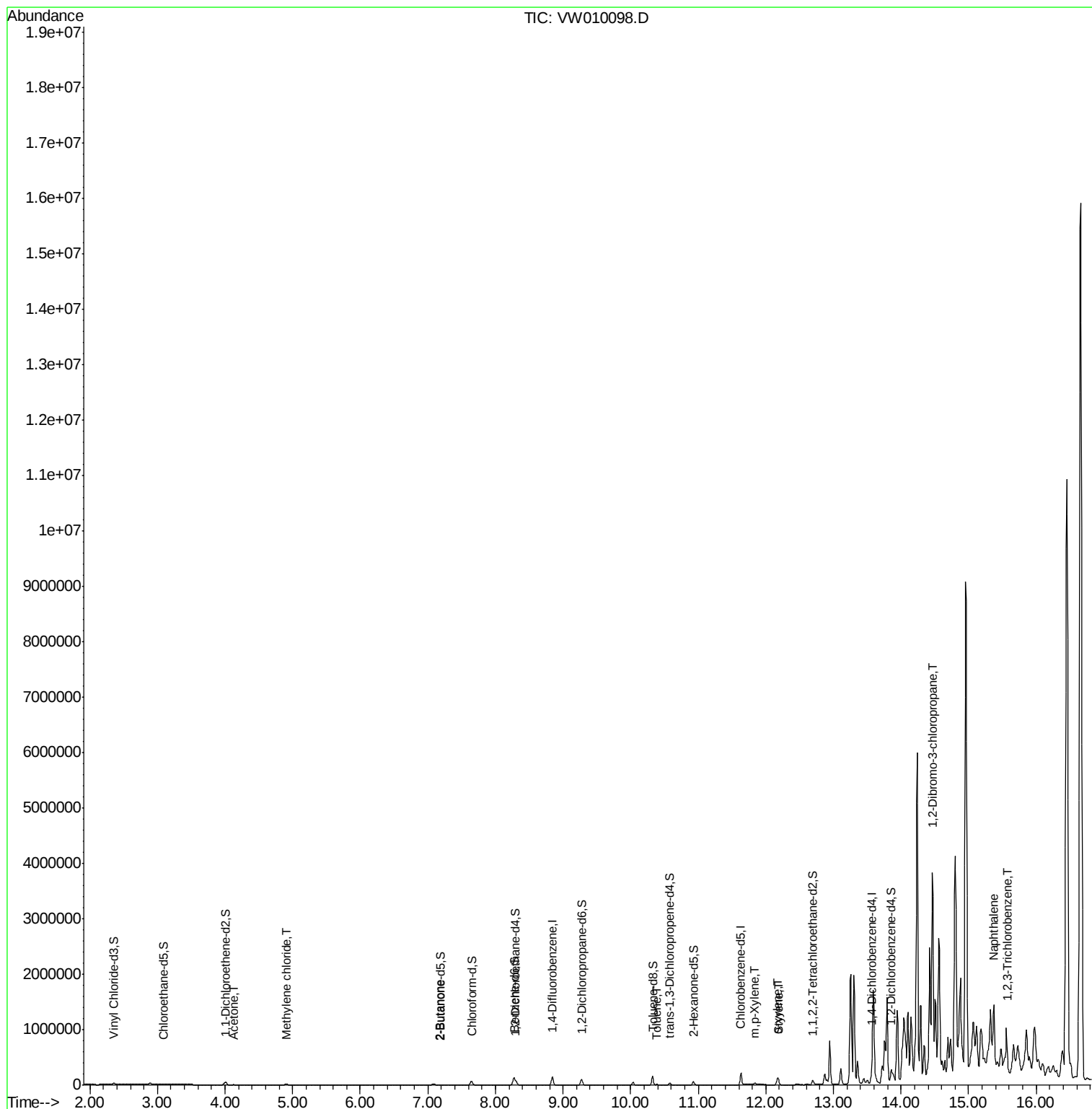
|                                |       |     |        |         | Qvalue    |
|--------------------------------|-------|-----|--------|---------|-----------|
| 13) Acetone                    | 4.12  | 43  | 11945  | 22.188  | ug/L 96   |
| 16) Methylene chloride         | 4.91  | 84  | 9357   | 4.364   | ug/L 85   |
| 21) 2-Butanone                 | 7.18  | 43  | 1418   | 2.011   | ug/L 77   |
| 44) Toluene                    | 10.39 | 91  | 8356   | 1.214   | ug/L 95   |
| 54) m,p-Xylene                 | 11.84 | 106 | 7227   | 2.569   | ug/L 85   |
| 55) o-xylene                   | 12.16 | 106 | 17603  | 6.524   | ug/L 97   |
| 56) Styrene                    | 12.19 | 104 | 42350  | 8.966   | ug/L 94   |
| 66) 1,2-Dibromo-3-chloropropan | 14.47 | 75  | 45556  | 212.719 | ug/L # 8  |
| 69) Naphthalene                | 15.37 | 128 | 808369 | 291.025 | ug/L # 95 |
| 70) 1,2,3-Trichlorobenzene     | 15.58 | 180 | 798    | 0.646   | ug/L # 1  |

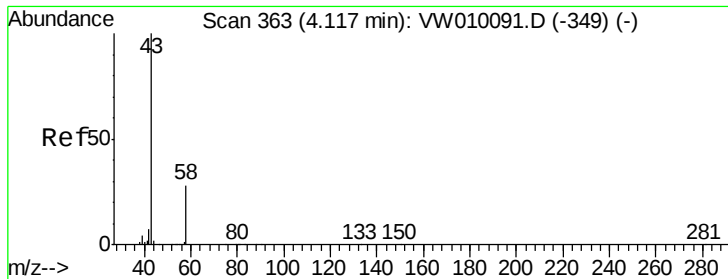
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 22.188 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010098.D

Acq: 23 Apr 2019 14:36

Instrument :

MSVOA\_W

ClientSampleId :

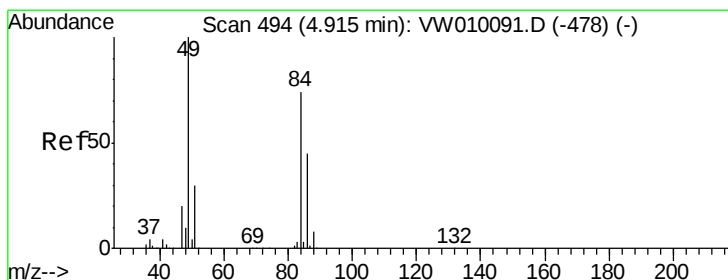
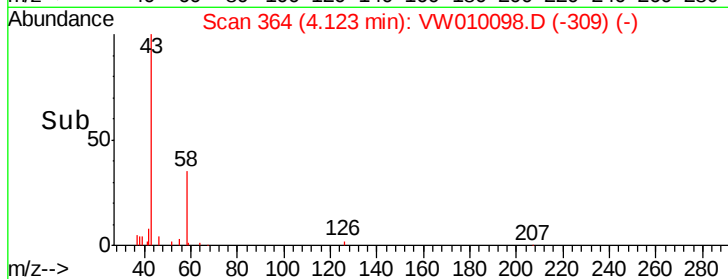
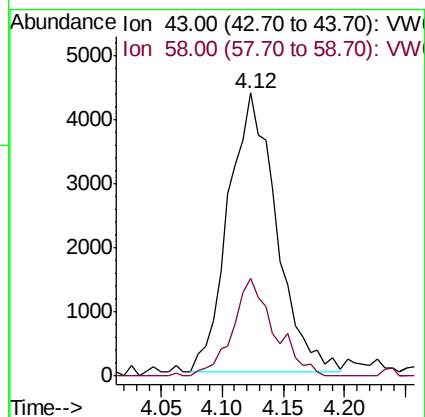
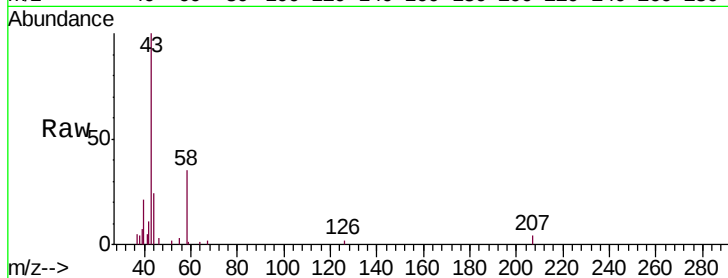
GAHN6

Tgt Ion: 43 Resp: 11945

Ion Ratio Lower Upper

43 100

58 25.8 0.0 56.2



#16

Methylene chloride

Concen: 4.364 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW010098.D

Acq: 23 Apr 2019 14:36

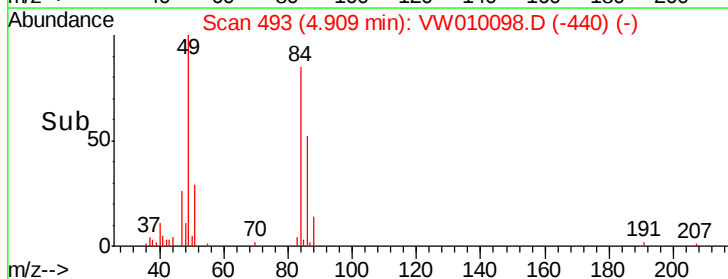
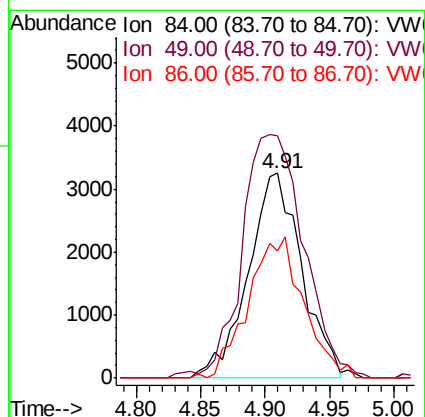
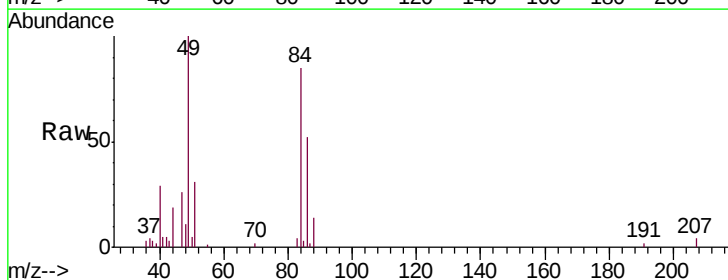
Tgt Ion: 84 Resp: 9357

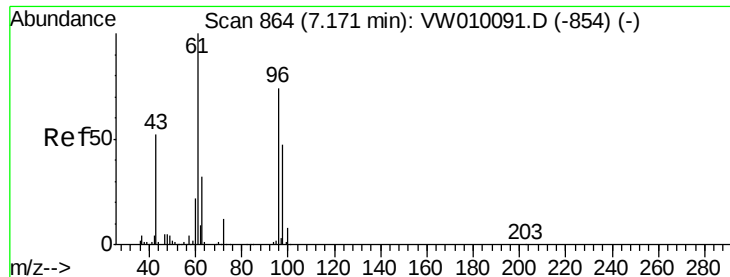
Ion Ratio Lower Upper

84 100

49 118.3 100.7 187.1

86 61.9 43.8 81.3





#21

2-Butanone

Concen: 2.011 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW010098.D

Acq: 23 Apr 2019 14:36

Instrument :

MSVOA\_W

ClientSampled :

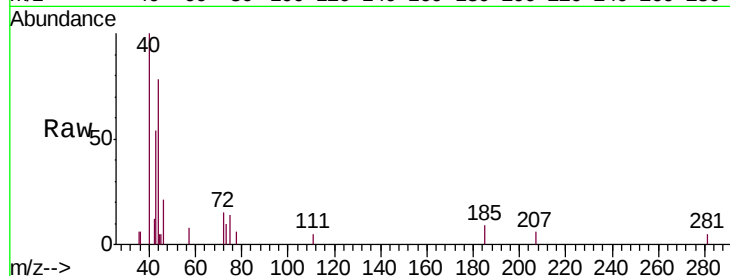
GAHN6

Tgt Ion: 43 Resp: 1418

Ion Ratio Lower Upper

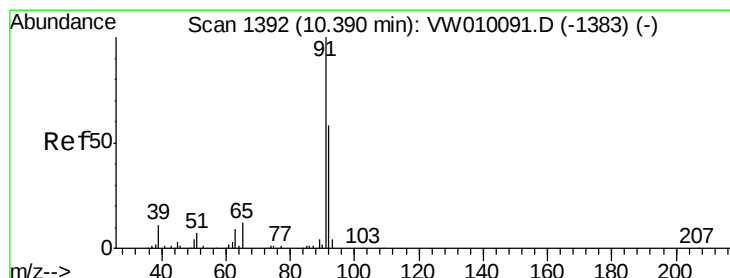
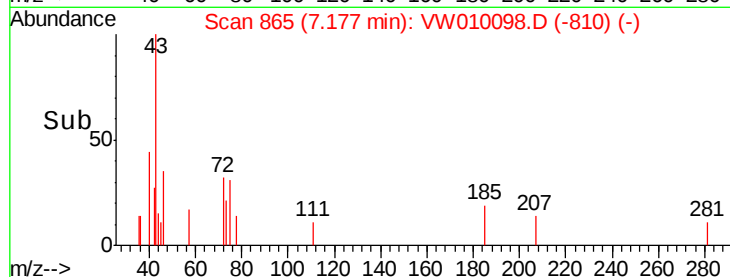
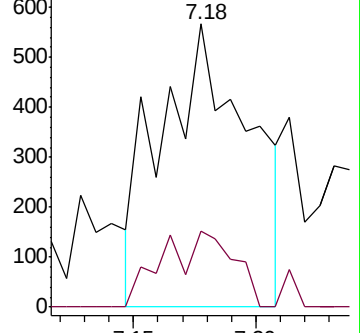
43 100

72 12.3 11.9 35.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#44

Toluene

Concen: 1.214 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW010098.D

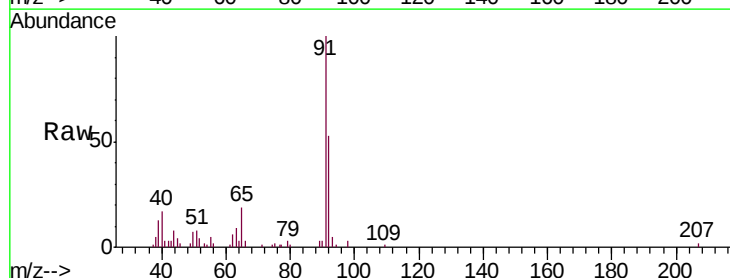
Acq: 23 Apr 2019 14:36

Tgt Ion: 91 Resp: 8356

Ion Ratio Lower Upper

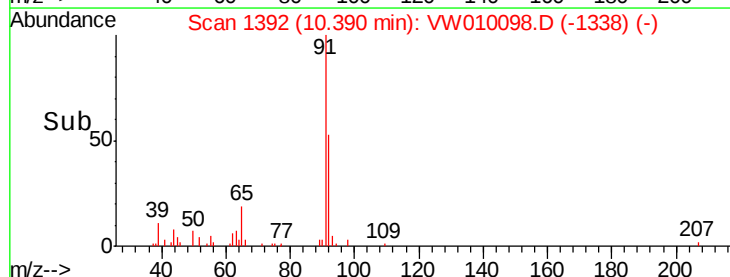
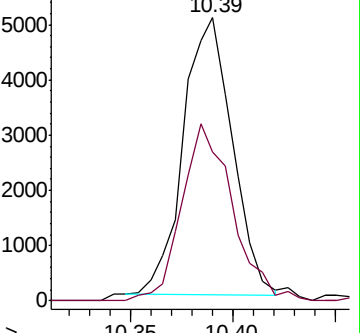
91 100

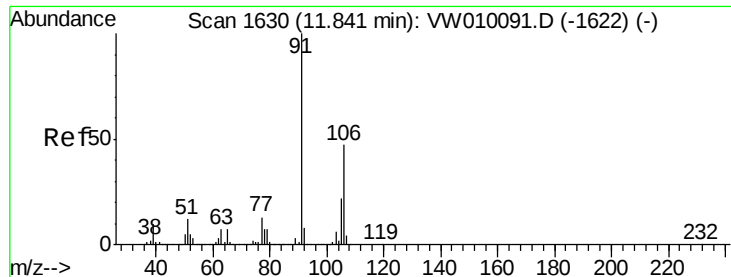
92 52.9 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW





#54

m,p-Xylene

Concen: 2.569 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW010098.D

Acq: 23 Apr 2019 14:36

Instrument :

MSVOA\_W

ClientSampled :

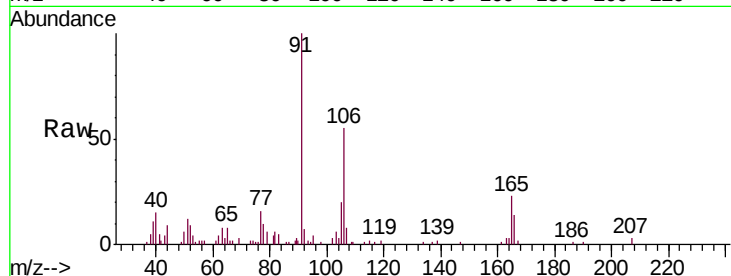
GAHN6

Tgt Ion:106 Resp: 7227

Ion Ratio Lower Upper

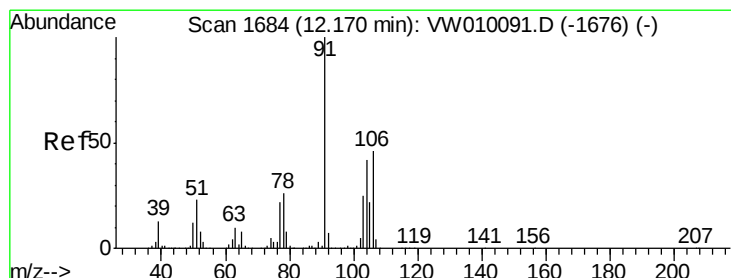
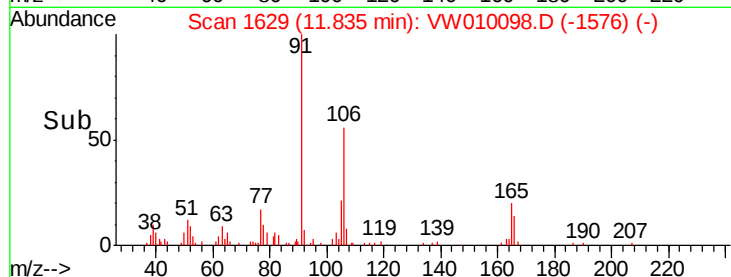
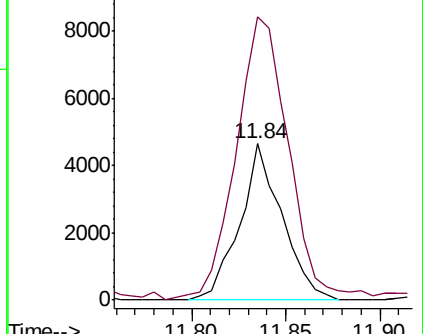
106 100

91 181.0 143.4 266.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 6.524 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW010098.D

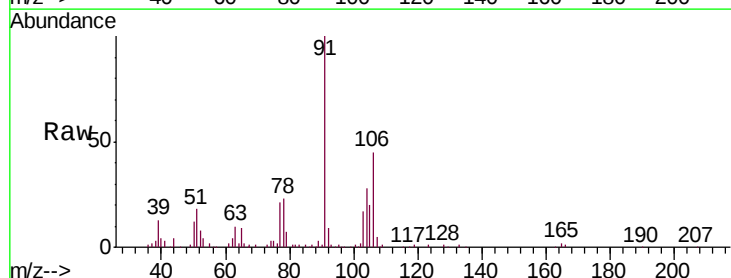
Acq: 23 Apr 2019 14:36

Tgt Ion:106 Resp: 17603

Ion Ratio Lower Upper

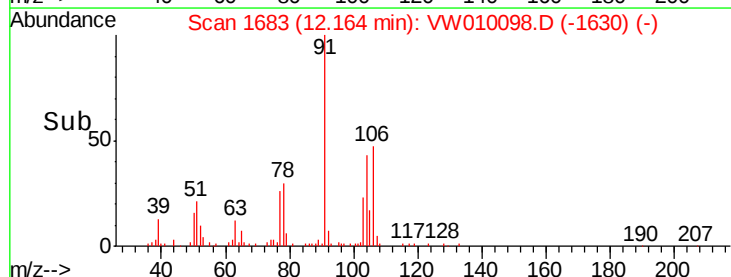
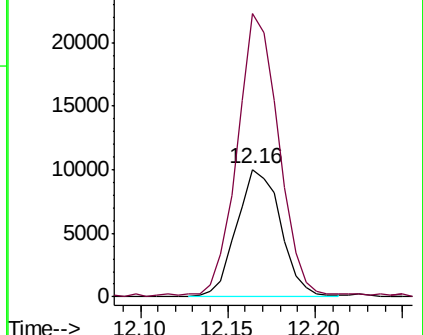
106 100

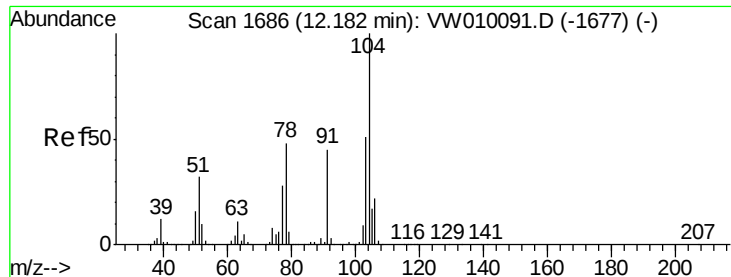
91 222.5 152.2 282.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 8.966 ug/L

RT: 12.19 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VW010098.D

Acq: 23 Apr 2019 14:36

Instrument :

MSVOA\_W

ClientSampled :

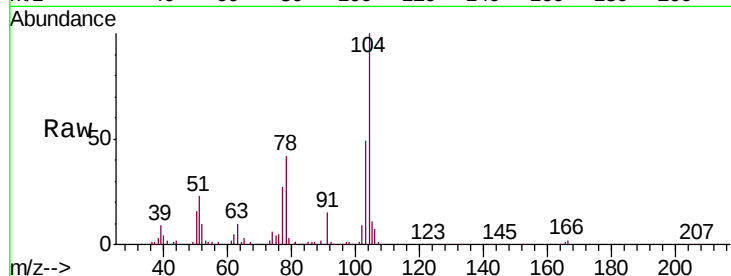
GAHN6

Tgt Ion: 104 Resp: 42350

Ion Ratio Lower Upper

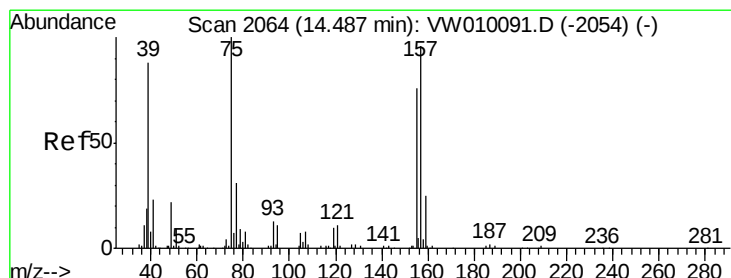
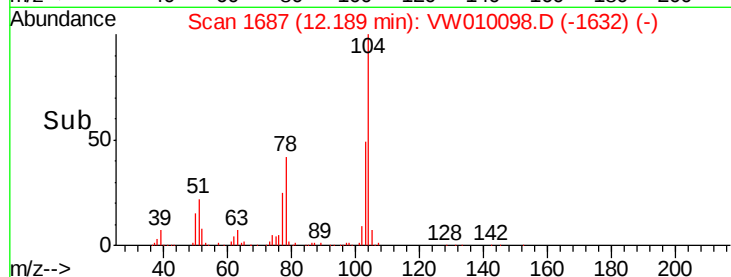
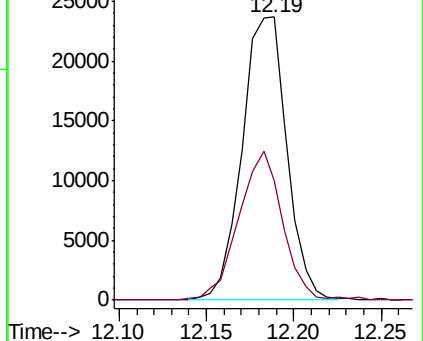
104 100

78 42.4 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#66

1,2-Dibromo-3-chloropropane

Concen: 212.719 ug/L

RT: 14.47 min Scan# 2061

Delta R.T. -0.02 min

Lab File: VW010098.D

Acq: 23 Apr 2019 14:36

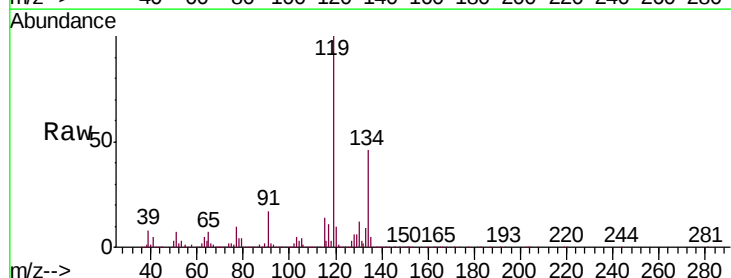
Tgt Ion: 75 Resp: 45556

Ion Ratio Lower Upper

75 100

157 0.9 73.3 109.9#

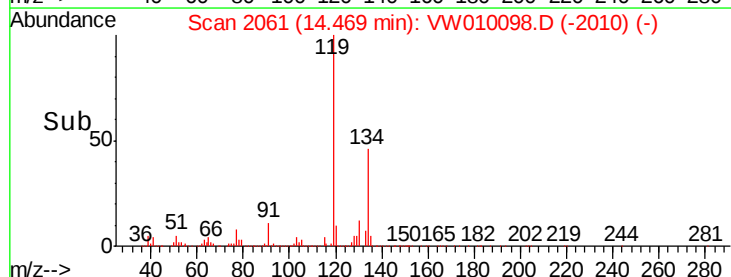
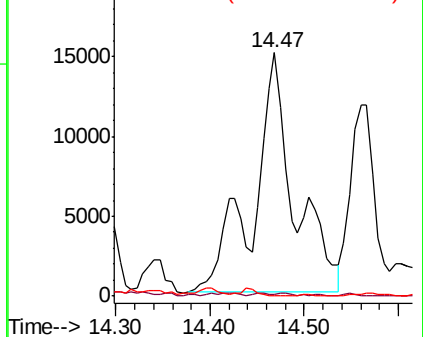
155 0.0 58.6 88.0#

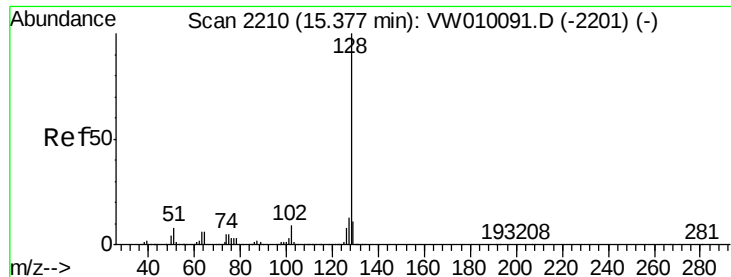


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

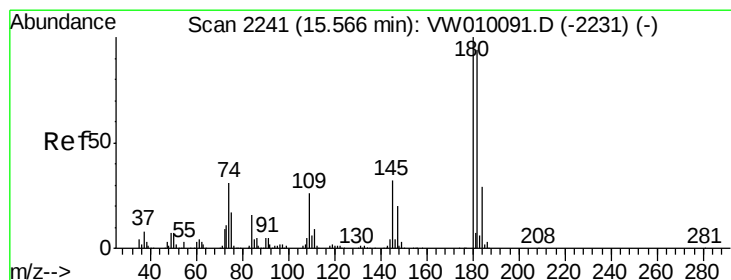
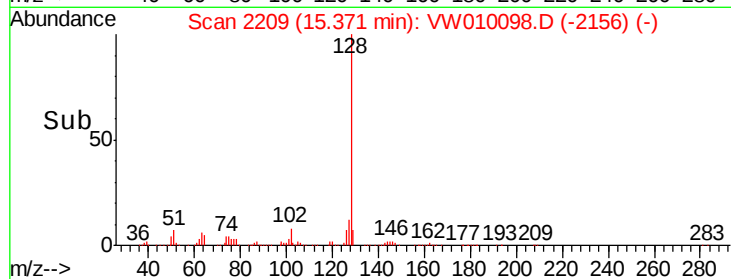
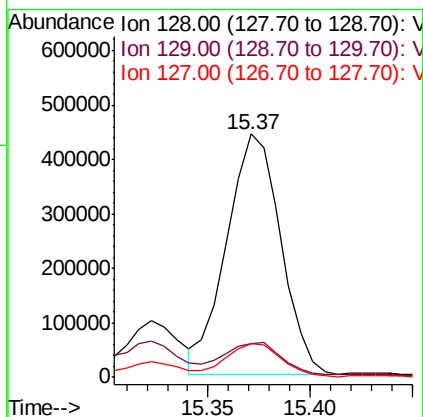
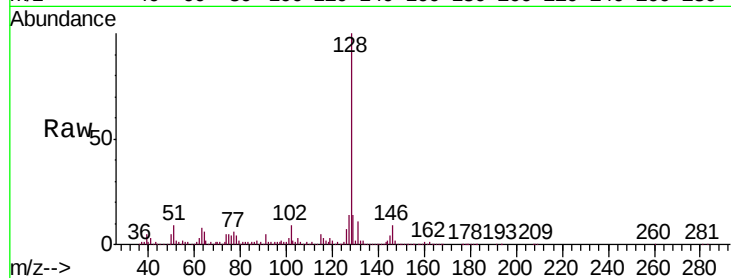




#69  
Naphthalene  
Concen: 291.025 ug/L  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: VW010098.D  
Acq: 23 Apr 2019 14:36

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAHN6

Tgt Ion:128 Resp: 808369  
Ion Ratio Lower Upper  
128 100  
129 14.2 8.6 12.8#  
127 13.9 10.6 16.0



#70  
1,2,3-Trichlorobenzene  
Concen: 0.646 ug/L  
RT: 15.58 min Scan# 2243  
Delta R.T. 0.01 min  
Lab File: VW010098.D  
Acq: 23 Apr 2019 14:36

Tgt Ion:180 Resp: 798  
Ion Ratio Lower Upper  
180 100  
182 46.2 76.0 114.0#  
145 2684.7 26.3 39.5#

