

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092418\  
 Data File : VV007816.D  
 Acq On : 24 Sep 2018 15:07  
 Operator : SY/MD  
 Sample : J5045-03  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 E5FE3

Quant Time: Sep 25 03:02:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 25 02:11:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 139424   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 133519   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 70594    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 42925    | 56.65    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 113.30%  |
| 7) Chloroethane-d5             | 1.59    | 69    | 44896    | 65.20    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 130.40%# |
| 11) 1,1-Dichloroethene-d2      | 2.14    | 63    | 85052    | 47.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.22%   |
| 21) 2-Butanone-d5              | 3.95    | 46    | 65609    | 131.10   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 131.10%# |
| 24) Chloroform-d               | 4.41    | 84    | 103131   | 63.57    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 127.14%# |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 69485    | 67.15    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 134.30%# |
| 32) Benzene-d6                 | 5.11    | 84    | 204561   | 66.65    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 133.30%# |
| 36) 1,2-Dichloropropane-d6     | 6.13    | 67    | 61538    | 67.90    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 135.80%# |
| 41) Toluene-d8                 | 7.36    | 98    | 209497   | 65.32    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 130.64%# |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 27874    | 61.00    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 122.00%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 50848    | 127.40   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 127.40%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 91127    | 64.41    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 128.82%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 97550    | 67.18    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 134.36%# |

## Target Compounds

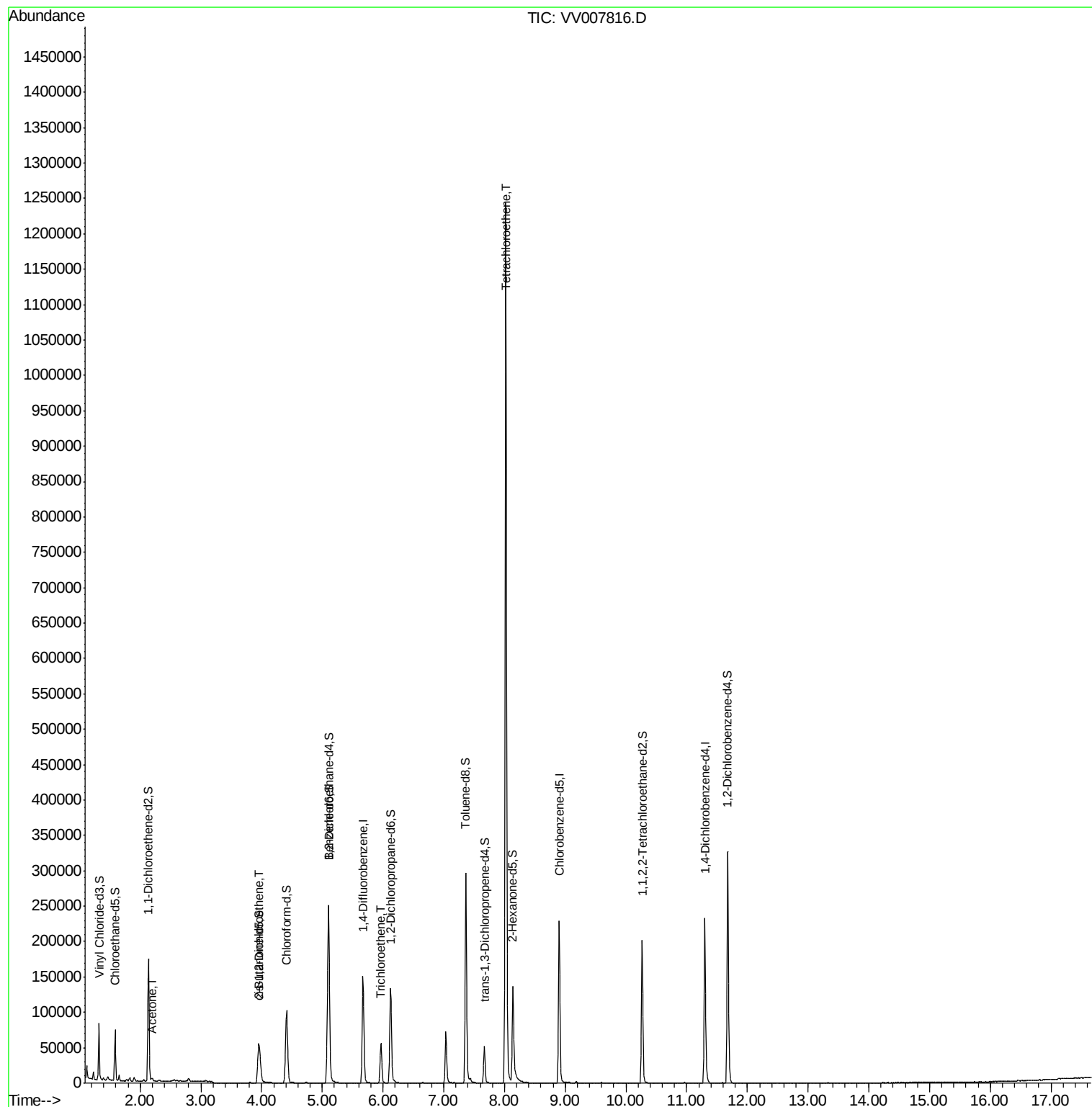
|                            |      |     |        |              | Ovalue |
|----------------------------|------|-----|--------|--------------|--------|
| 13) Acetone                | 2.19 | 43  | 2214   | 4.192 ug/L   | 97     |
| 20) cis-1,2-Dichloroethene | 3.97 | 96  | 15177  | 16.221 ug/L  | 92     |
| 34) Trichloroethene        | 5.96 | 95  | 18536  | 19.597 ug/L  | 99     |
| 46) Tetrachloroethene      | 8.02 | 164 | 288144 | 297.650 ug/L | 99     |

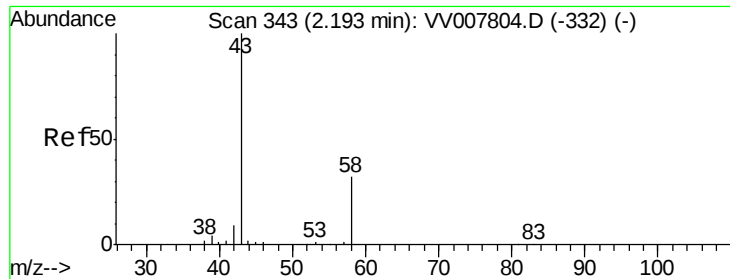
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 25 02:11:24 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 4.192 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.00 min

Lab File: VV007816.D

Acq: 24 Sep 2018 15:07

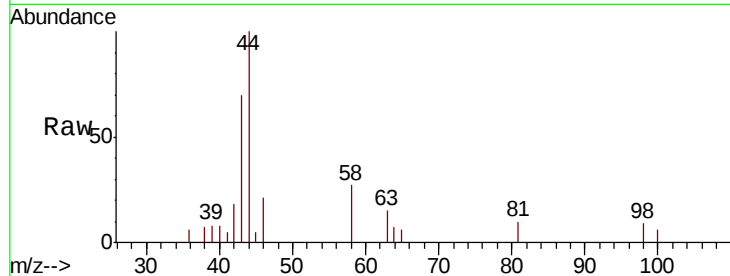
Instrument :  
MSVOA\_V  
ClientSampled :  
E5FE3

Tot Ion: 43 Resp: 2214

Ion Ratio Lower Upper

43 100

58 34.6 0.0 65.2



Abundance Ion 43.00 (42.70 to 43.70): VV007816.D (-250) (-)

Ion 58.00 (57.70 to 58.70): VV007816.D (-250) (-)

2.19

1500

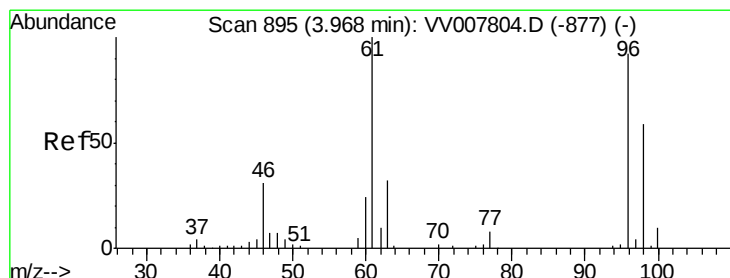
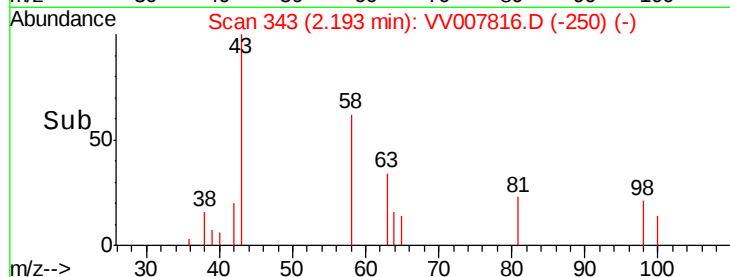
1000

500

0

2.15 2.20 2.25

Time-->



#20

cis-1,2-Dichloroethene

Concen: 16.221 ug/L

RT: 3.97 min Scan# 896

Delta R.T. 0.00 min

Lab File: VV007816.D

Acq: 24 Sep 2018 15:07

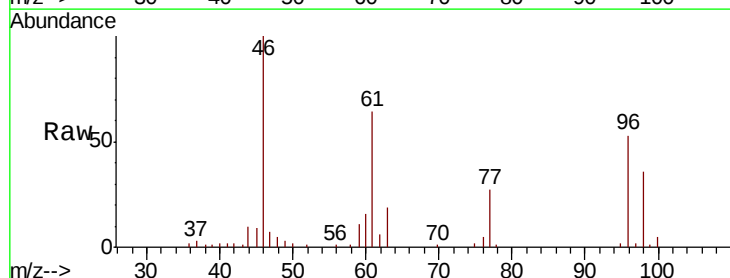
Tgt Ion: 96 Resp: 15177

Ion Ratio Lower Upper

96 100

61 121.4 78.8 146.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV007816.D (-802) (-)

Ion 61.00 (60.70 to 61.70): VV007816.D (-802) (-)

Ion 68.00 (67.70 to 68.70): VV007816.D (-802) (-)

10000

8000

6000

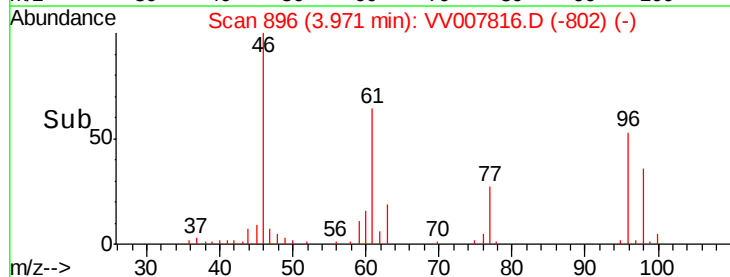
4000

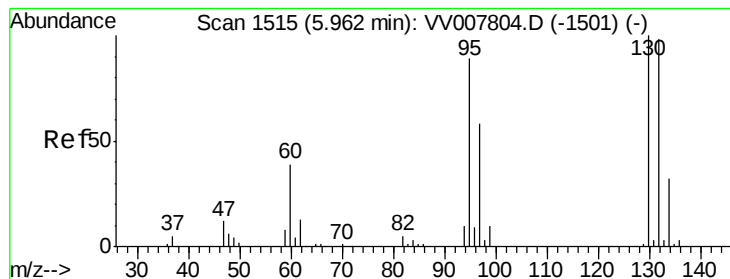
2000

0

3.90 3.95 4.00 4.05

Time-->





#34

Trichloroethene

Concen: 19.597 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV007816.D

Acq: 24 Sep 2018 15:07

Instrument :

MSVOA\_V

ClientSampleId :

E5FE3

Tot Ion: 95 Resp: 18536

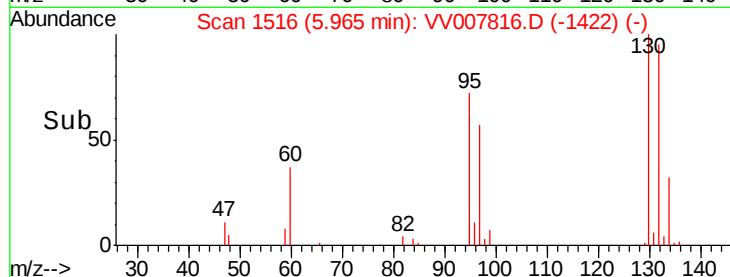
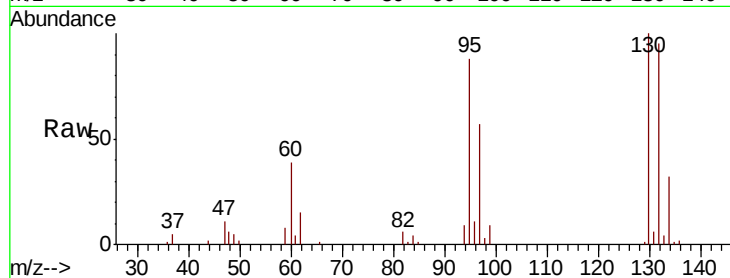
Ion Ratio Lower Upper

95 100

97 64.9 45.2 84.0

132 108.3 77.7 144.3

130 113.8 79.7 148.1

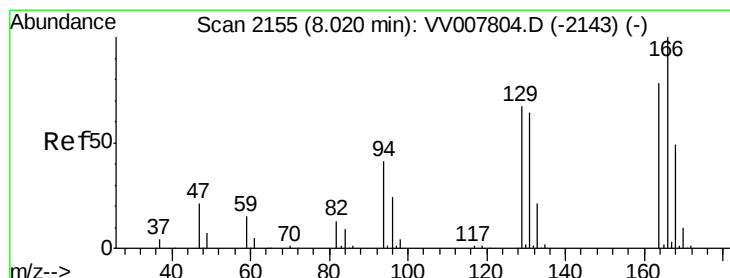
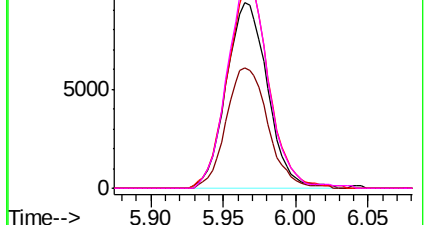


Abundance Ion 95.00 (94.70 to 95.70): VV007816.D (-1422) (-)

Ion 97.00 (96.70 to 97.70): VV007816.D (-1422) (-)

Ion 132.00 (131.70 to 132.70): VV007816.D (-1422) (-)

Ion 130.00 (129.70 to 130.70): VV007816.D (-1422) (-)



#46

Tetrachloroethene

Concen: 297.650 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV007816.D

Acq: 24 Sep 2018 15:07

Tgt Ion: 164 Resp: 288144

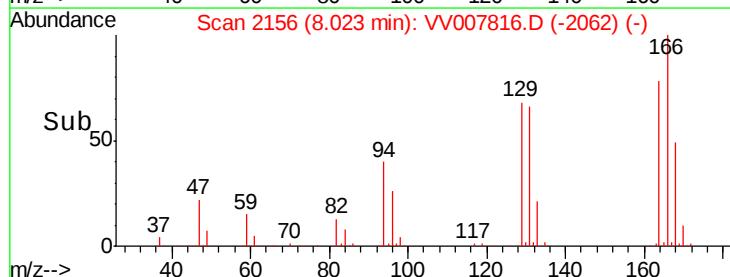
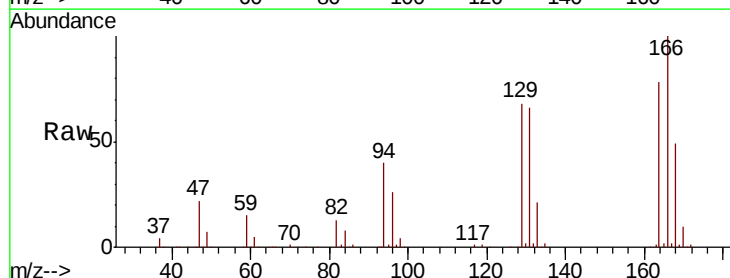
Ion Ratio Lower Upper

164 100

129 87.5 61.0 113.4

131 85.4 57.8 107.4

166 128.6 89.9 167.0



Abundance Ion 164.00 (163.70 to 164.70): VV007816.D (-2062) (-)

Ion 129.00 (128.70 to 129.70): VV007816.D (-2062) (-)

Ion 131.00 (130.70 to 131.70): VV007816.D (-2062) (-)

Ion 166.00 (165.70 to 166.70): VV007816.D (-2062) (-)

