

Data File : VW009313.D  
Acq On : 21 Mar 2019 04:06  
Operator : SY/VA  
Sample : K1988-14  
Misc : 6.27G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF0C5

Quant Time: Mar 21 12:25:17 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 21 12:20:05 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 340712   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 330393   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 151430   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 98035    | 24.08    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.32% |
| 7) Chloroethane-d5             | 2.90   | 69    | 91368    | 19.18    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 76.72% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 153260   | 17.42    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 69.68% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 66869    | 39.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 79.42% |
| 24) Chloroform-d               | 7.64   | 84    | 209901   | 22.57    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 90.28% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 126186   | 22.53    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 90.12% |
| 29) Benzene-d6                 | 8.27   | 84    | 392599   | 21.55    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 86.20% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 120839   | 22.08    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 88.32% |
| 37) Toluene-d8                 | 10.32  | 98    | 344782   | 20.46    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 81.84% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 50411    | 18.34    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 73.36% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 49360    | 37.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 74.48% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 109603   | 20.34    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 81.36% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 134630   | 23.19    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.76% |

#### Target Compounds

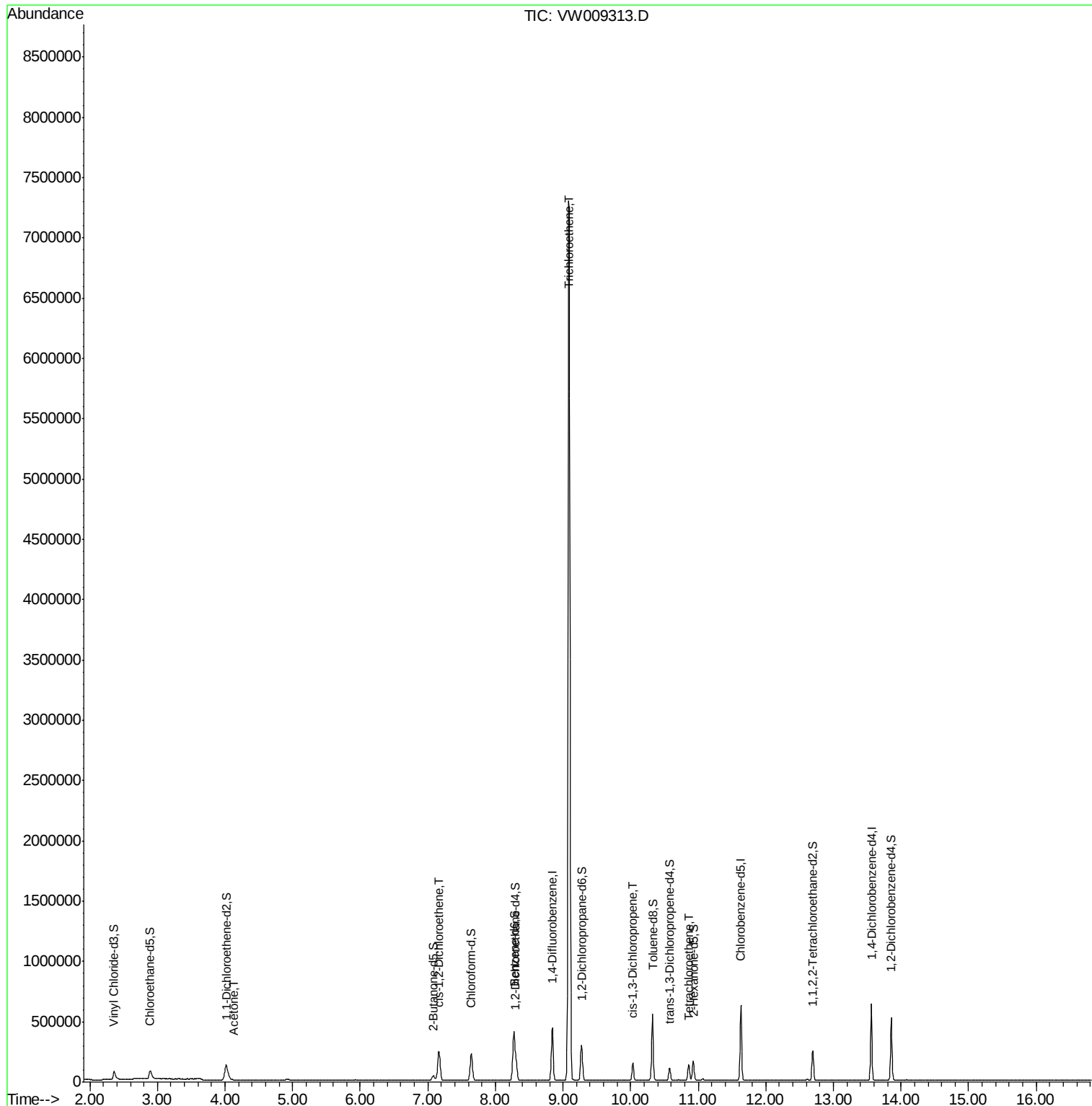
|                             |       |     |         |              | Qvalue |
|-----------------------------|-------|-----|---------|--------------|--------|
| 13) Acetone                 | 4.13  | 43  | 1922    | 1.392 ug/L   | 83     |
| 22) cis-1,2-Dichloroethene  | 7.17  | 96  | 128900  | 26.975 ug/L  | 98     |
| 35) Trichloroethene         | 9.09  | 95  | 2299387 | 477.184 ug/L | 98     |
| 42) cis-1,3-Dichloropropene | 10.03 | 75  | 3812    | 0.504 ug/L # | 72     |
| 47) Tetrachloroethene       | 10.86 | 164 | 27942   | 6.863 ug/L   | 87     |

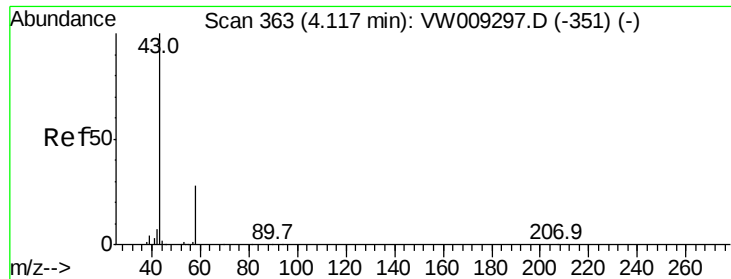
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 1.392 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

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Instrument :

MSVOA\_W

ClientSampleId :

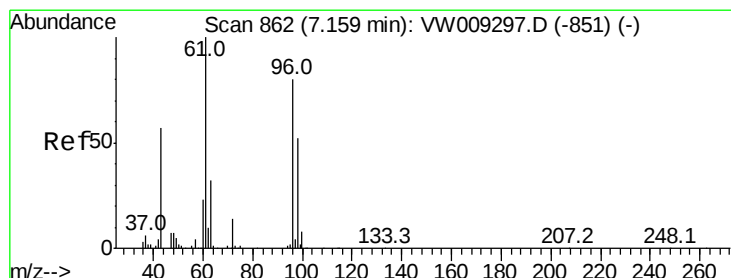
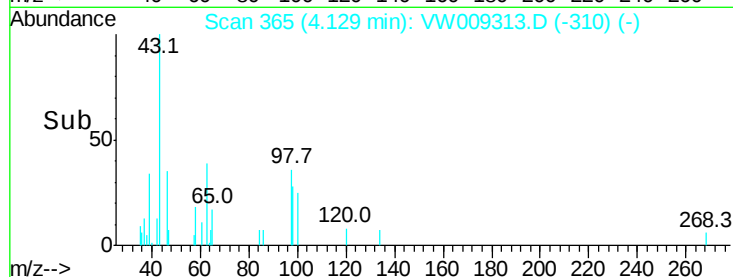
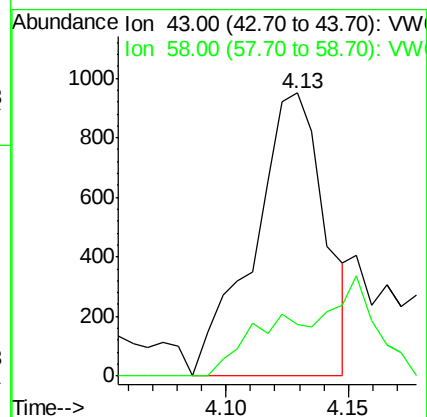
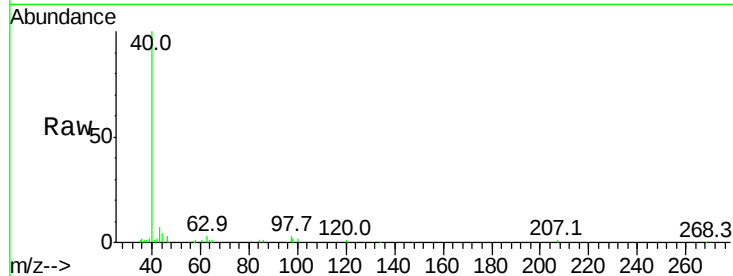
BF0C5

Tgt Ion: 43 Resp: 1922

Ion Ratio Lower Upper

43 100

58 19.3 0.0 56.2



#22

cis-1,2-Dichloroethene

Concen: 26.975 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW009313.D

Acq: 21 Mar 2019 04:06

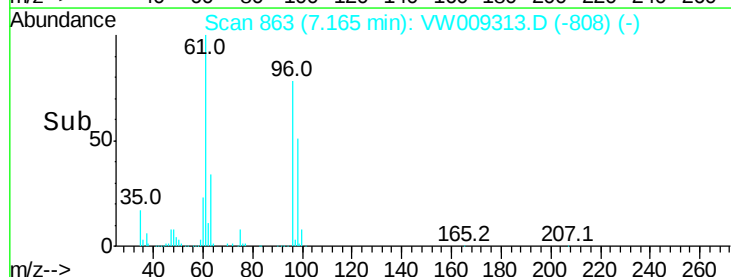
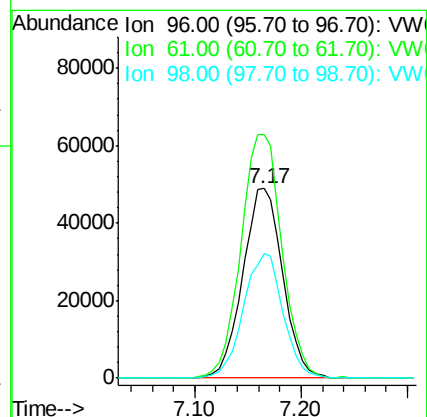
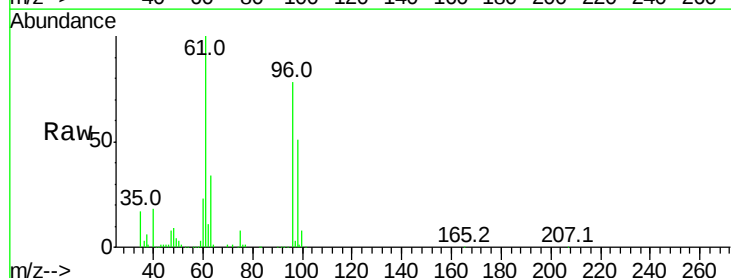
Tgt Ion: 96 Resp: 128900

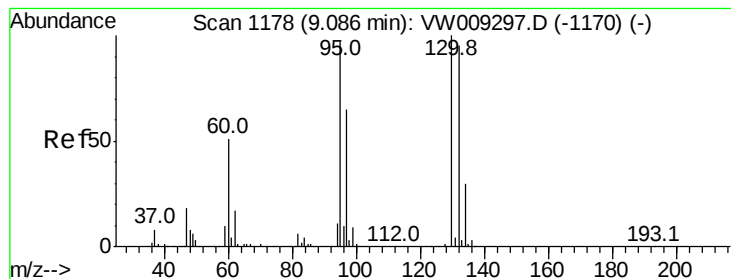
Ion Ratio Lower Upper

96 100

61 128.6 90.6 168.3

98 66.1 44.0 81.8





#35

Trichloroethene

Concen: 477.184 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

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Instrument :

MSVOA\_W

ClientSampleId :

BF0C5

Tgt Ion: 95 Resp: 2299387

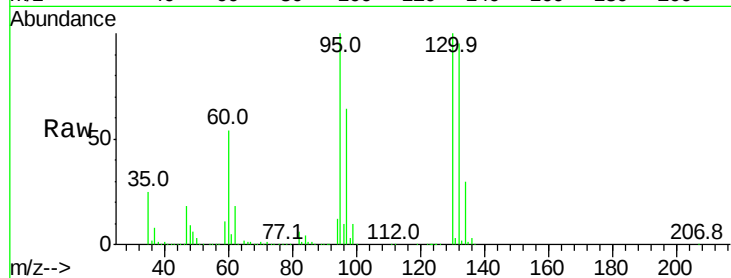
Ion Ratio Lower Upper

95 100

97 64.5 44.7 82.9

132 97.6 69.0 128.2

130 101.2 72.7 134.9

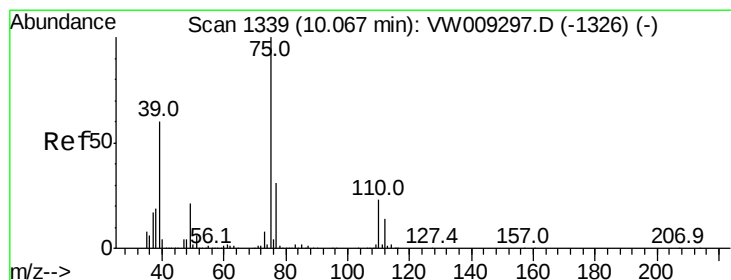
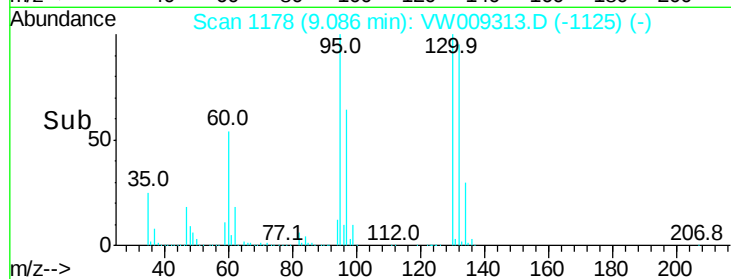
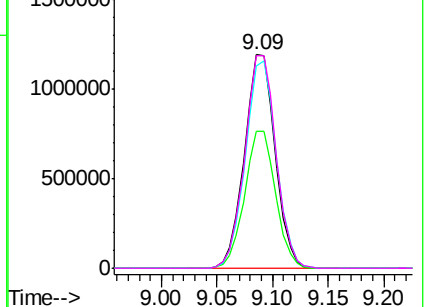


Abundance Ion 95.00 (94.70 to 95.70): VW

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



#42

cis-1,3-Dichloropropene

Concen: 0.504 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW009313.D

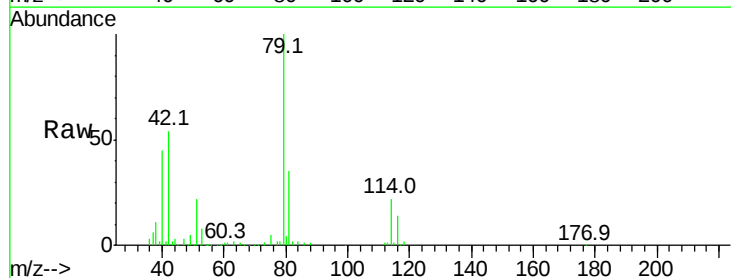
Acq: 21 Mar 2019 04:06

Tgt Ion: 75 Resp: 3812

Ion Ratio Lower Upper

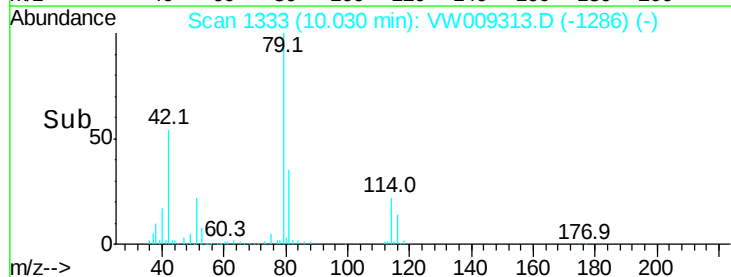
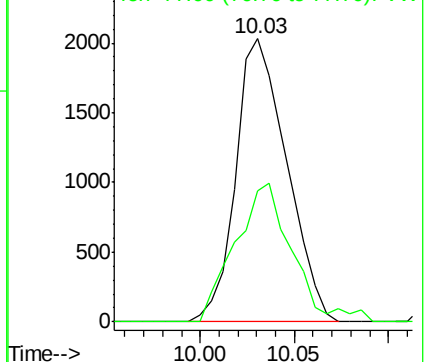
75 100

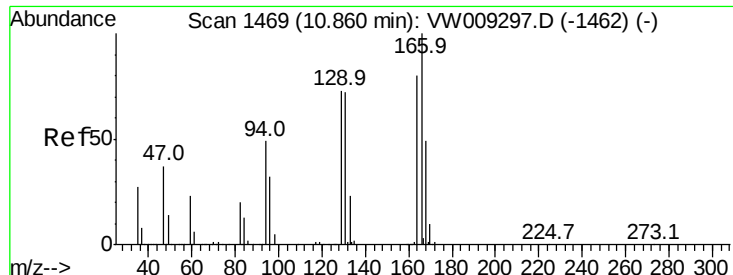
77 46.5 21.6 40.2#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#47

Tetrachloroethene

Concen: 6.863 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009313.D

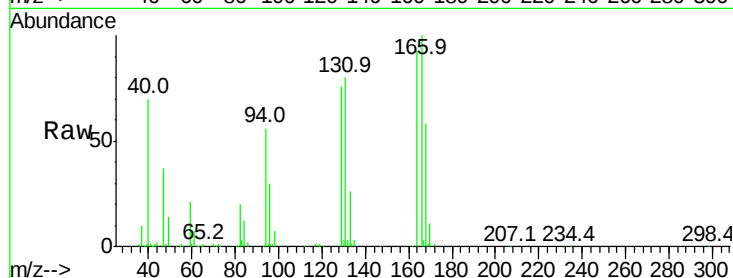
Acq: 21 Mar 2019 04:06

Instrument :

MSVOA\_W

ClientSampleId :

BF0C5



Tgt Ion:164 Resp: 27942

Ion Ratio Lower Upper

164 100

129 82.4 66.5 123.5

131 86.4 62.6 116.3

166 107.9 91.6 170.0

Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

