

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV100418\  
 Data File : VV008084.D  
 Acq On : 05 Oct 2018 01:36  
 Operator : SY/MD  
 Sample : J5246-18  
 Misc : 25.0 mL/MSVOA\_V/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0J86

Quant Time: Oct 05 07:12:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 05 05:56:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 81257    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 78249    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 37944    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 16345    | 3.75     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.00%   |
| 7) Chloroethane-d5             | 1.59   | 69    | 16291    | 4.33     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.60%   |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 83523    | 8.49     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 169.80%# |
| 20) 2-Butanone-d5              | 3.97   | 46    | 72464    | 55.31    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.62%  |
| 24) Chloroform-d               | 4.41   | 84    | 48082    | 4.85     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%   |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 25836    | 4.73     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60%   |
| 32) Benzene-d6                 | 5.10   | 84    | 88709    | 4.75     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%   |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 29751    | 5.02     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 100.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 79867    | 4.20     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.00%   |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 9606     | 4.21     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 84.20%   |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 49991    | 49.67    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.34%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 22885    | 5.01     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 35653    | 4.85     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.00%   |

## Target Compounds

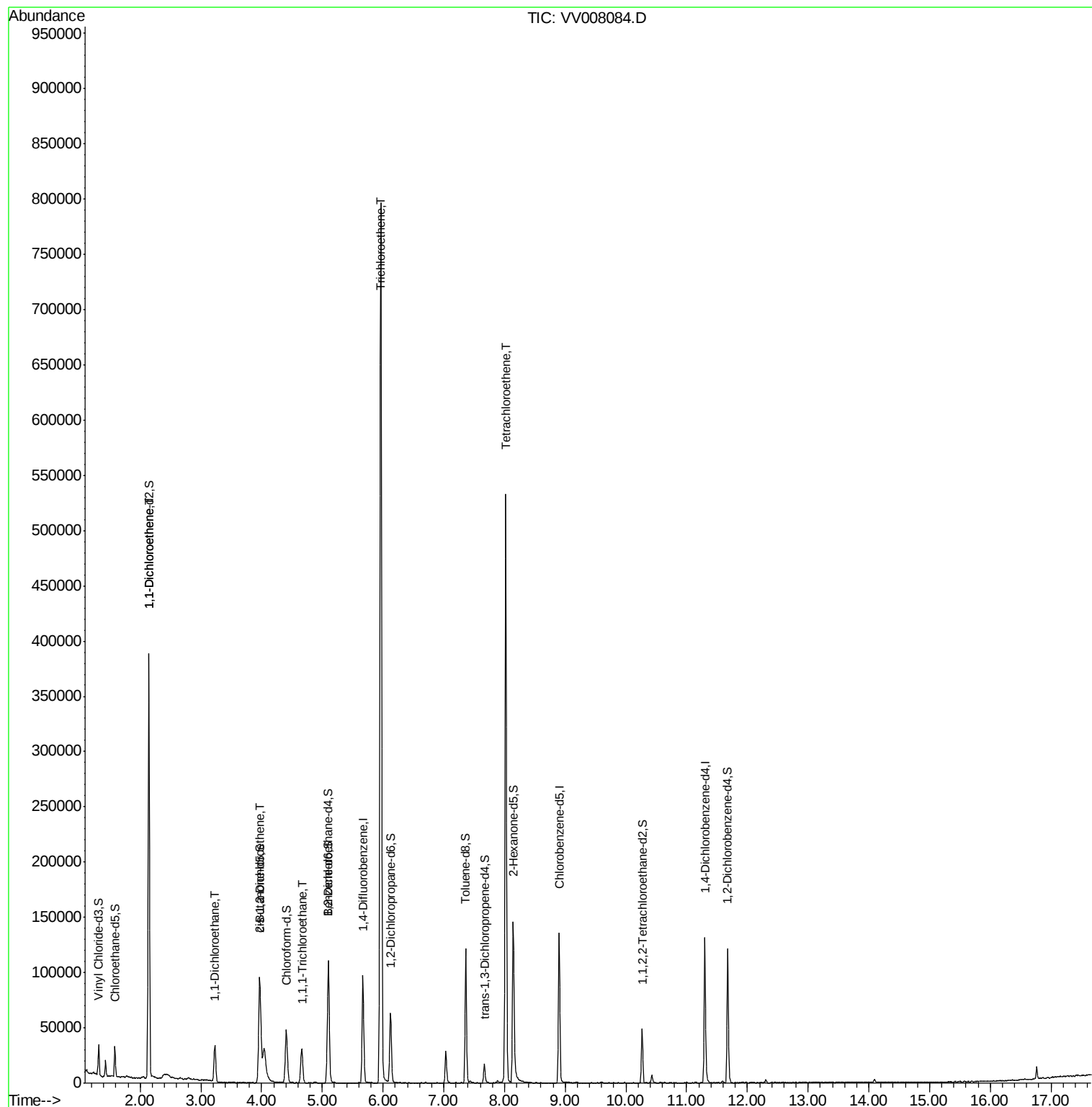
|                            |      |     |        |               | Qvalue |
|----------------------------|------|-----|--------|---------------|--------|
| 12) 1,1-Dichloroethene     | 2.14 | 96  | 108091 | 20.125 ug/L # | 77     |
| 19) 1,1-Dichloroethane     | 3.23 | 63  | 33374  | 3.304 ug/L    | 99     |
| 22) cis-1,2-Dichloroethene | 3.97 | 96  | 34881  | 5.818 ug/L    | 99     |
| 29) 1,1,1-Trichloroethane  | 4.66 | 97  | 24636  | 2.618 ug/L    | 98     |
| 34) Trichloroethene        | 5.96 | 95  | 269534 | 42.011 ug/L   | 97     |
| 47) Tetrachloroethene      | 8.02 | 164 | 123359 | 20.750 ug/L   | 97     |

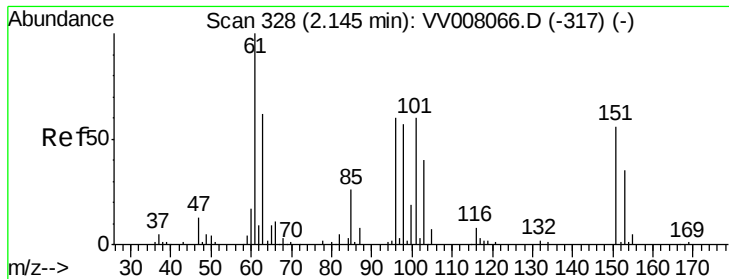
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 05 05:56:33 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 20.125 ug/L

RT: 2.14 min Scan# 328

Delta R.T. -0.00 min

Lab File: VV008084.D

Acq: 05 Oct 2018 01:36

Instrument :

MSVOA\_V

ClientSampleId :

C0J86

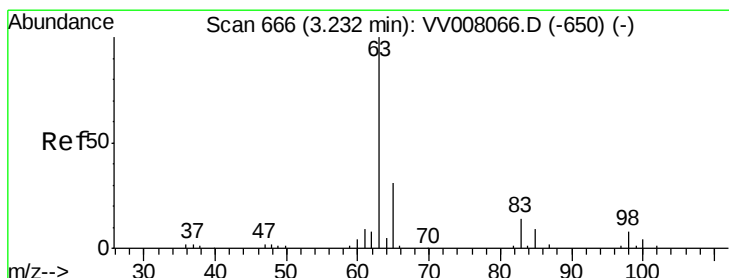
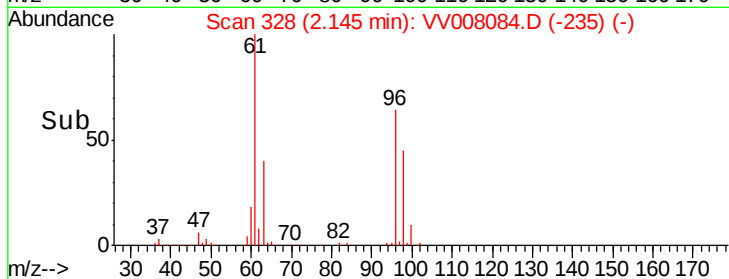
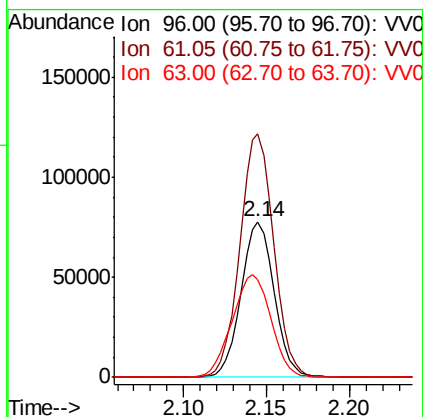
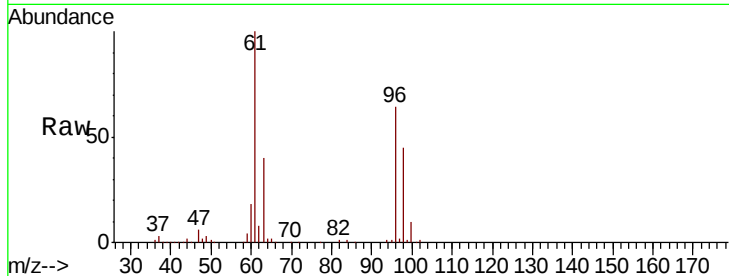
Tgt Ion: 96 Resp: 108091

Ion Ratio Lower Upper

96 100

61 156.7 114.1 211.9

63 62.5 81.5 151.3#



#19

1,1-Dichloroethane

Concen: 3.304 ug/L

RT: 3.23 min Scan# 666

Delta R.T. -0.00 min

Lab File: VV008084.D

Acq: 05 Oct 2018 01:36

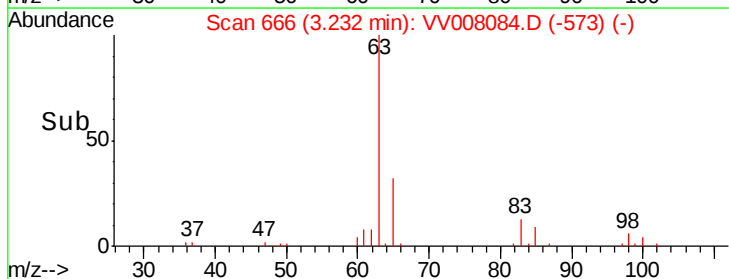
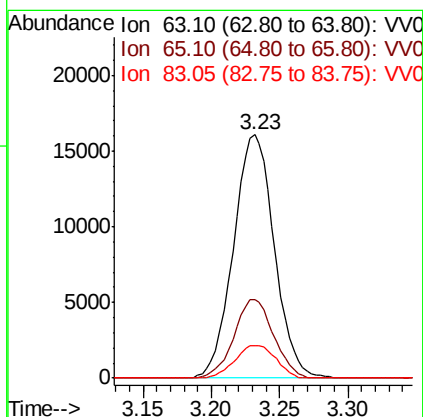
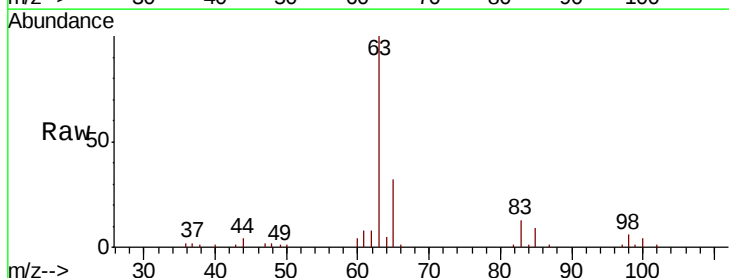
Tgt Ion: 63 Resp: 33374

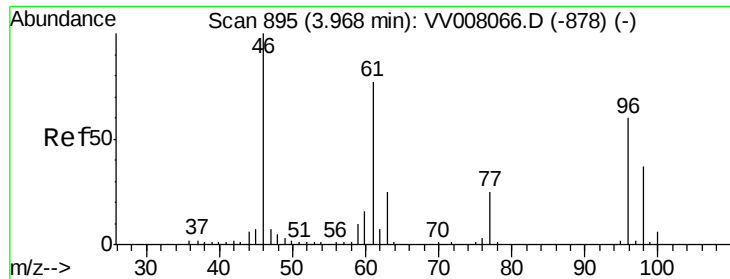
Ion Ratio Lower Upper

63 100

65 32.4 22.3 41.5

83 13.3 9.8 18.2



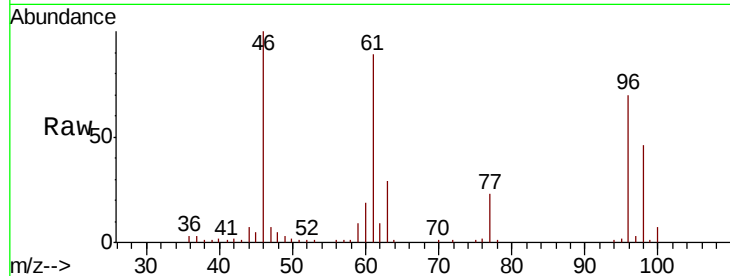


#22

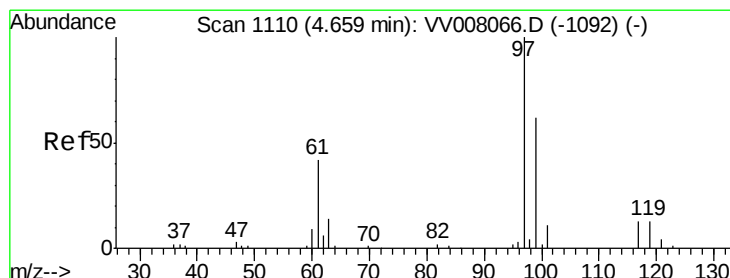
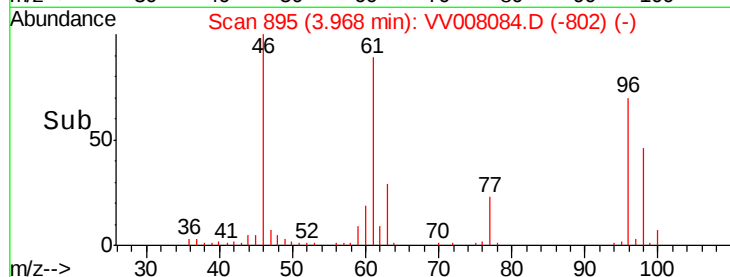
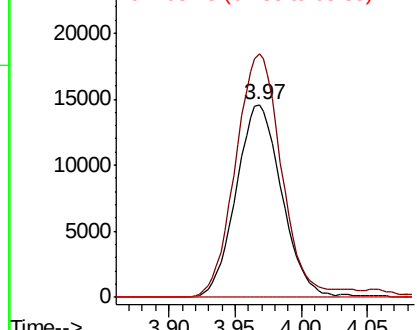
cis-1,2-Dichloroethene  
 Concen: 5.818 ug/L  
 RT: 3.97 min Scan# 895  
 Delta R.T. -0.00 min  
 Lab File: VV008084.D  
 Acq: 05 Oct 2018 01:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0J86

Tgt Ion: 96 Resp: 34881  
 Ion Ratio Lower Upper  
 96 100  
 61 126.4 89.5 166.1  
 68 0.0 0.0 0.0



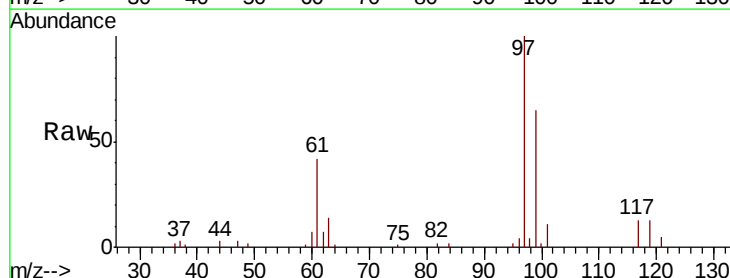
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.05 (60.75 to 61.75): VV0  
 Ion 68.15 (67.85 to 68.85): VV0



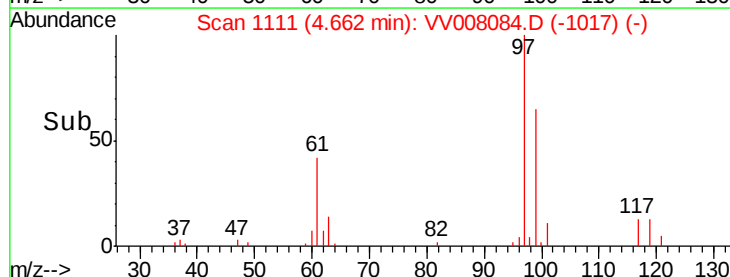
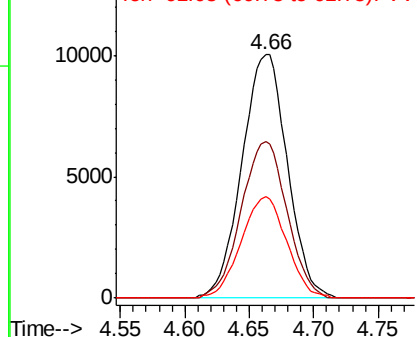
#29

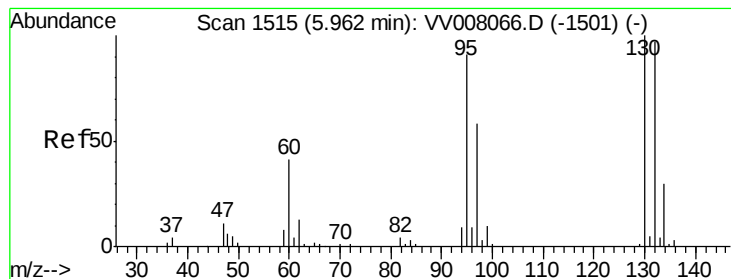
1,1,1-Trichloroethane  
 Concen: 2.618 ug/L  
 RT: 4.66 min Scan# 1111  
 Delta R.T. 0.00 min  
 Lab File: VV008084.D  
 Acq: 05 Oct 2018 01:36

Tgt Ion: 97 Resp: 24636  
 Ion Ratio Lower Upper  
 97 100  
 99 64.7 51.2 76.8  
 61 41.7 34.6 52.0



Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 61.05 (60.75 to 61.75): VV0





#34

Trichloroethene

Concen: 42.011 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV008084.D

Acq: 05 Oct 2018 01:36

Instrument :

MSVOA\_V

ClientSampleId :

C0J86

Tgt Ion: 95 Resp: 269534

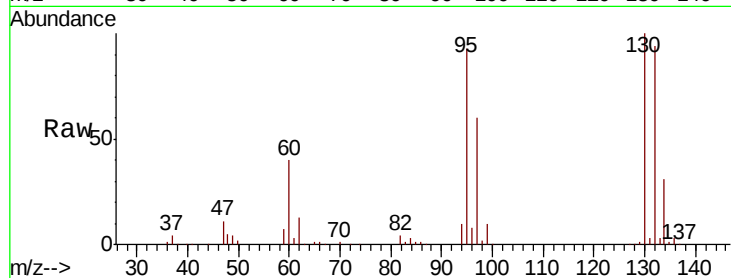
Ion Ratio Lower Upper

95 100

97 64.0 43.6 81.0

132 101.1 69.9 129.9

130 107.5 71.7 133.3

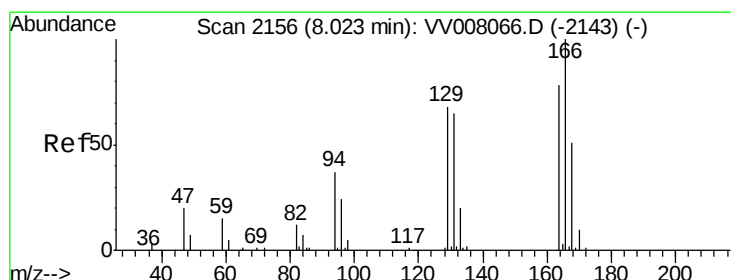
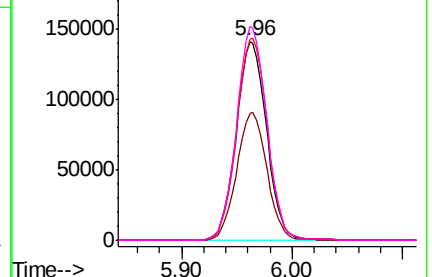
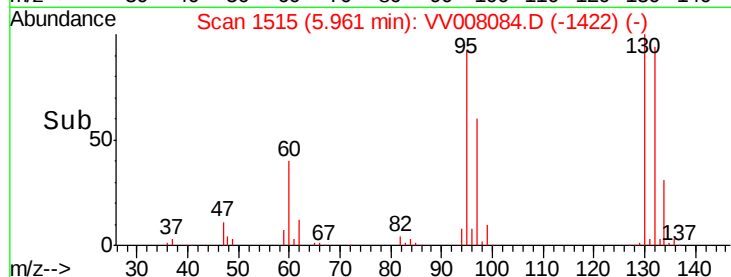


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#47

Tetrachloroethene

Concen: 20.750 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. -0.00 min

Lab File: VV008084.D

Acq: 05 Oct 2018 01:36

Tgt Ion: 164 Resp: 123359

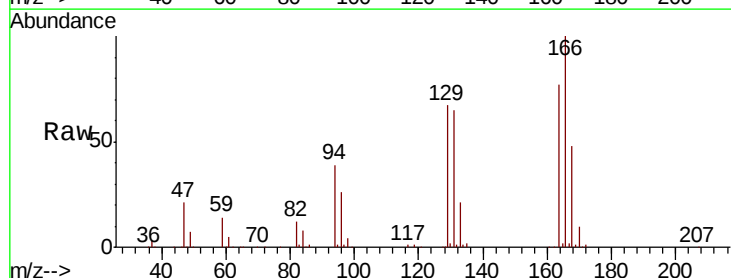
Ion Ratio Lower Upper

164 100

129 87.2 59.2 110.0

131 84.4 57.1 106.1

166 130.2 88.6 164.6



Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

