

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102020\  
 Data File : VV019017.D  
 Acq On : 20 Oct 2020 16:22  
 Operator : SY/MD  
 Sample : L4430-01DL 5X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AB0DL

Quant Time: Oct 21 07:27:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 21 06:02:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 304727   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 303627   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 147110   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 77570    | 30.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 61.84%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 77242    | 38.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 77.74%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 134647   | 28.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 56.86%# |
| 21) 2-Butanone-d5              | 3.91    | 46    | 170810   | 97.69    | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.69%  |
| 24) Chloroform-d               | 4.37    | 84    | 185430   | 41.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.28%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 126320   | 42.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 84.46%  |
| 32) Benzene-d6                 | 5.07    | 84    | 331012   | 37.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 74.68%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 112112   | 39.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 79.12%  |
| 41) Toluene-d8                 | 7.34    | 98    | 287275   | 36.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 72.26%# |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 51774    | 37.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.74%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 82893    | 78.74    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 78.74%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 131134   | 39.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 78.96%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 132325   | 44.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.42%  |

## Target Compounds

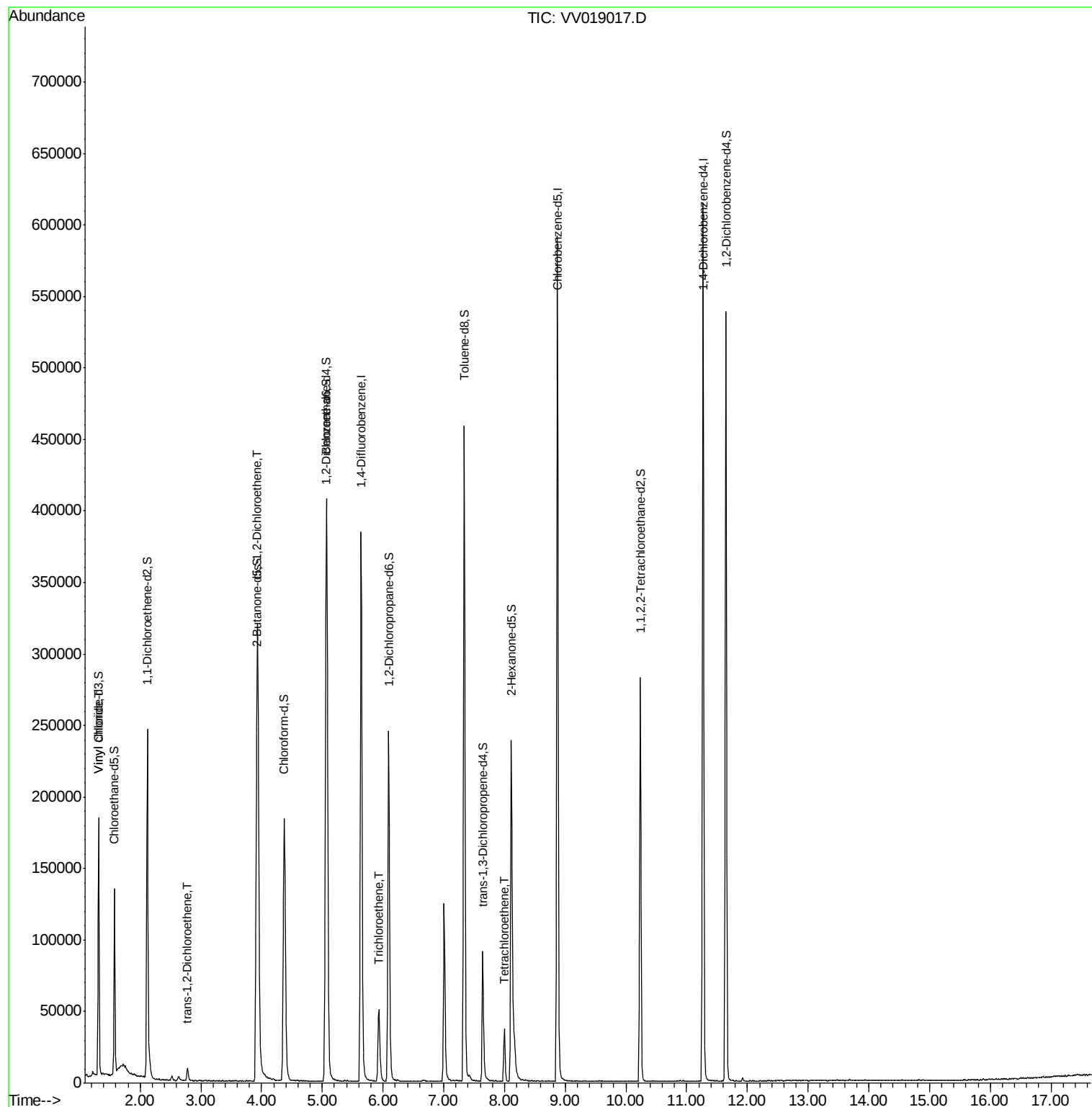
|                              |      |     |        |        | Ovalue  |
|------------------------------|------|-----|--------|--------|---------|
| 5) Vinyl chloride            | 1.32 | 62  | 38121  | 13.254 | ug/L 98 |
| 17) trans-1,2-Dichloroethene | 2.78 | 96  | 2996   | 1.347  | ug/L 92 |
| 20) cis-1,2-Dichloroethene   | 3.94 | 96  | 142739 | 60.561 | ug/L 97 |
| 34) Trichloroethene          | 5.94 | 95  | 7077   | 2.637  | ug/L 93 |
| 46) Tetrachloroethene        | 8.00 | 164 | 8428   | 4.456  | ug/L 95 |

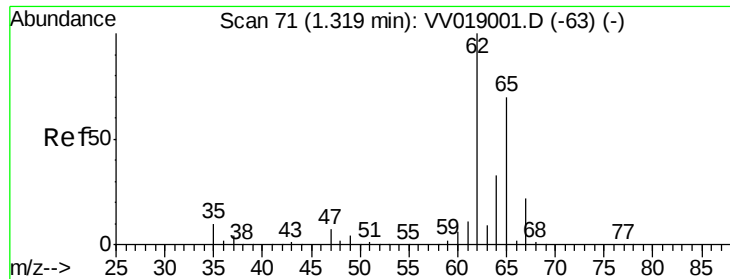
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102020\  
Data File : VV019017.D  
Acq On : 20 Oct 2020 16:22  
Operator : SY/MD  
Sample : L4430-01DL 5X  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AB0DL

Quant Time: Oct 21 07:27:11 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Oct 21 06:02:04 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 13.254 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV019017.D

Acq: 20 Oct 2020 16:22

Instrument :

MSVOA\_V

ClientSampled :

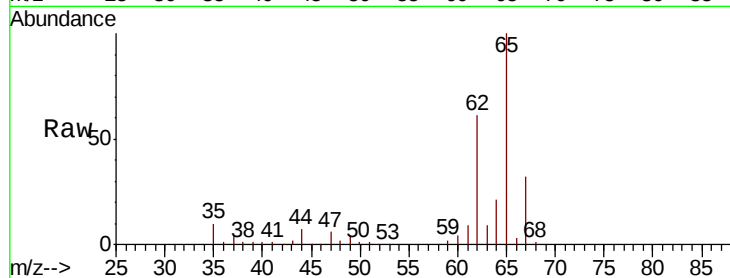
C0AB0DL

Tot Ion: 62 Resp: 38121

Ion Ratio Lower Upper

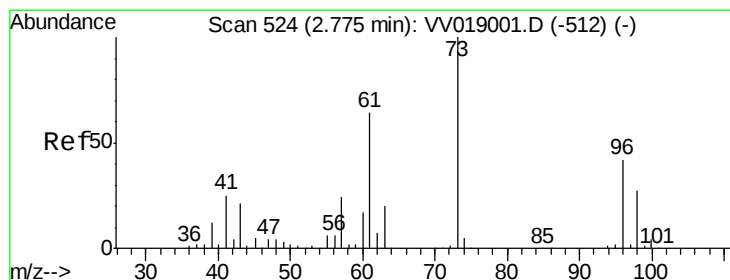
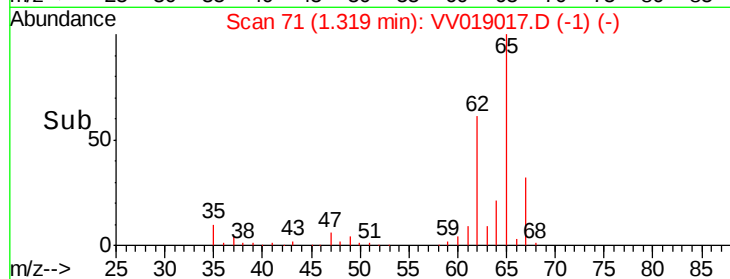
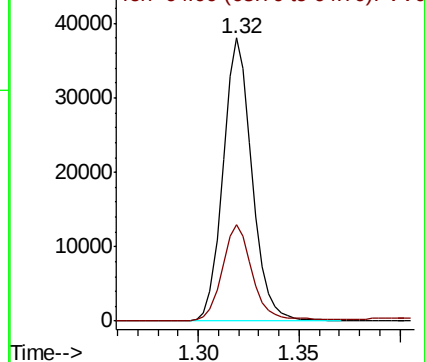
62 100

64 34.1 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#17

trans-1,2-Dichloroethene

Concen: 1.347 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.01 min

Lab File: VV019017.D

Acq: 20 Oct 2020 16:22

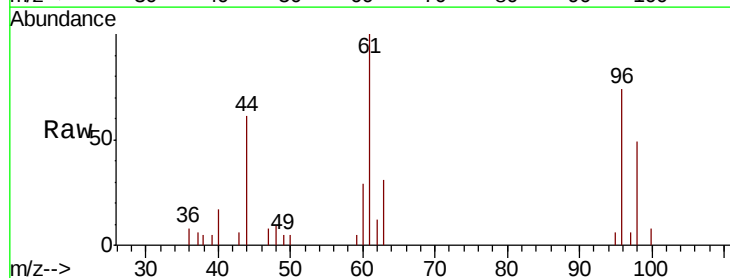
Tgt Ion: 96 Resp: 2996

Ion Ratio Lower Upper

96 100

61 134.4 102.8 190.8

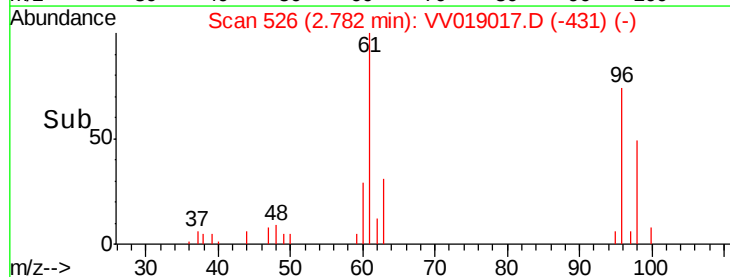
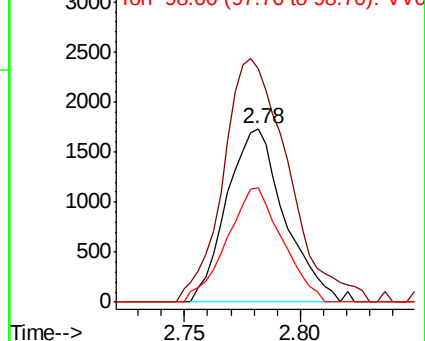
98 65.5 44.0 81.6

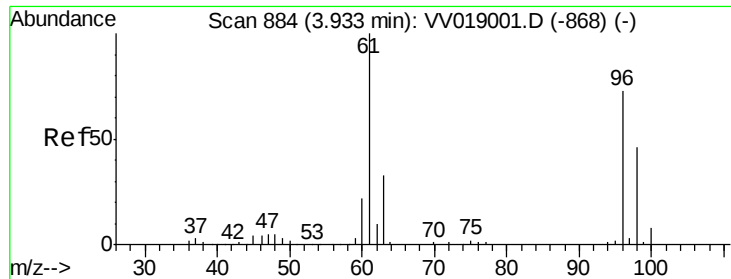


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

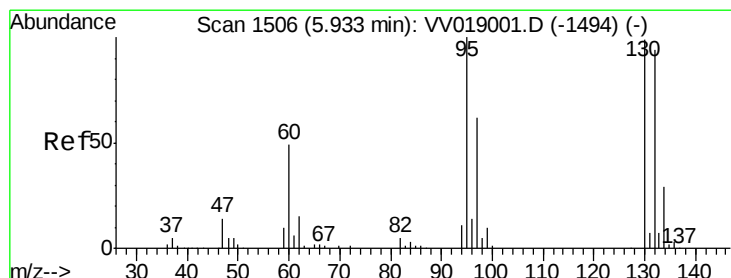
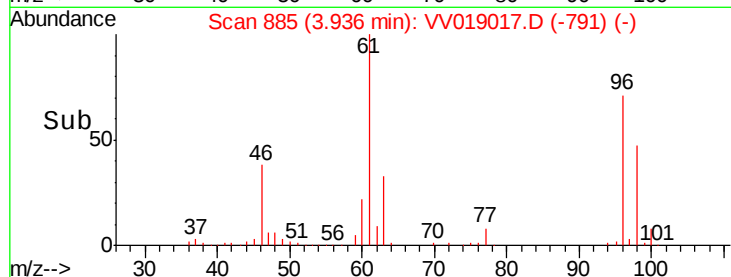
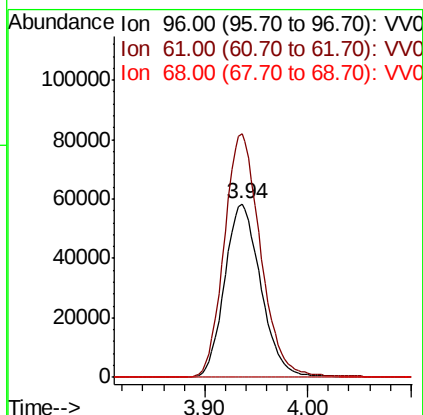
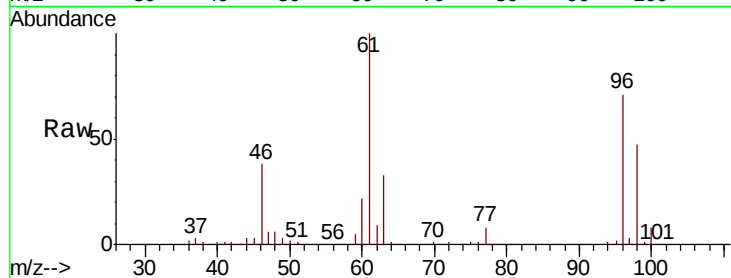




#20  
 cis-1,2-Dichloroethene  
 Concen: 60.561 ug/L  
 RT: 3.94 min Scan# 885  
 Delta R.T. 0.00 min  
 Lab File: VV019017.D  
 Acq: 20 Oct 2020 16:22

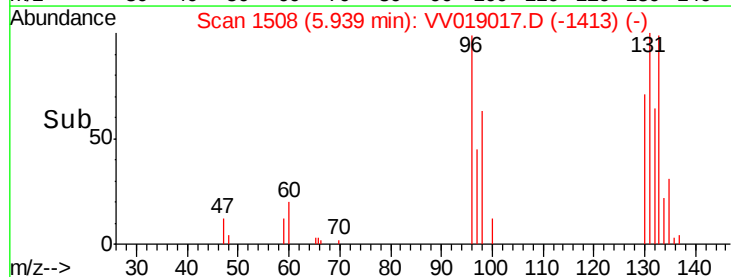
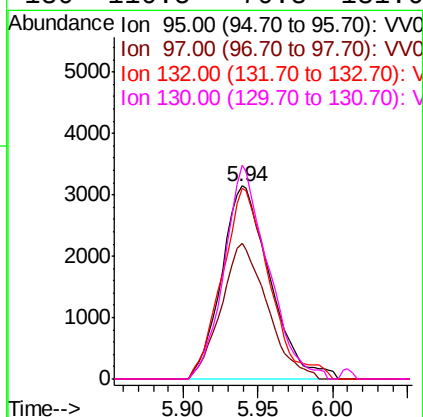
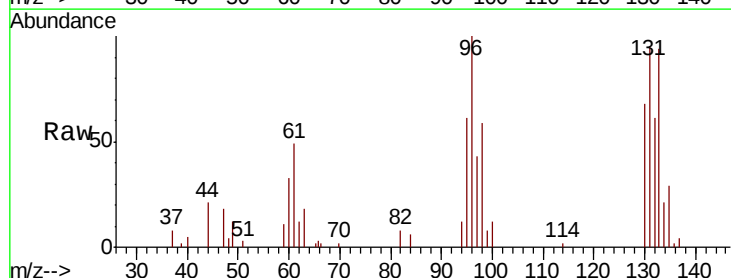
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AB0DL

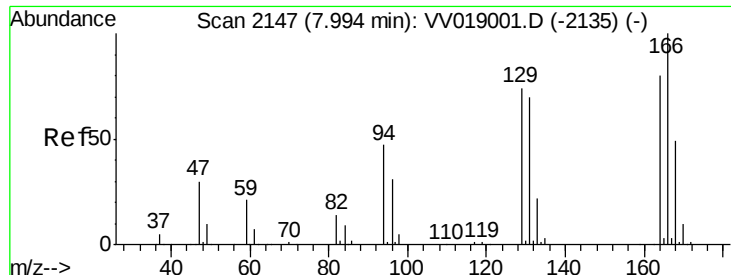
Tot Ion: 96 Resp: 142739  
 Ion Ratio Lower Upper  
 96 100  
 61 140.4 96.1 178.5  
 68 0.0 0.0 0.0



#34  
 Trichloroethene  
 Concen: 2.637 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.01 min  
 Lab File: VV019017.D  
 Acq: 20 Oct 2020 16:22

Tgt Ion: 95 Resp: 7077  
 Ion Ratio Lower Upper  
 95 100  
 97 70.1 44.7 82.9  
 132 99.0 67.0 124.4  
 130 110.5 70.8 131.6





#46

Tetrachloroethene

Concen: 4.456 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV019017.D

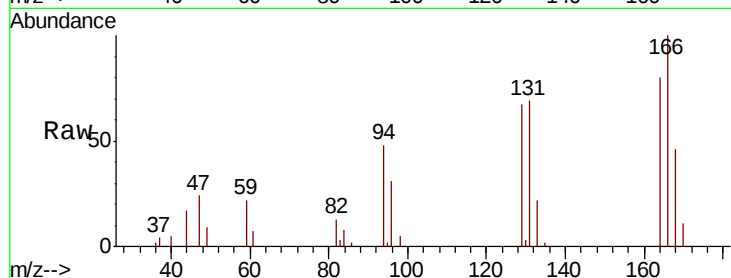
Acq: 20 Oct 2020 16:22

Instrument :

MSVOA\_V

ClientSampleId :

C0AB0DL



Tot Ion:164 Resp: 8428

Ion Ratio Lower Upper

164 100

129 84.2 65.0 120.8

131 86.8 62.9 116.7

166 124.9 91.1 169.3

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

