

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082918\  
 Data File : VU026435.D  
 Acq On : 29 Aug 2018 20:33  
 Operator : MD/SY  
 Sample : J4691-07  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BEE04

Quant Time: Aug 30 03:59:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 30 02:20:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 154442   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 147183   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 68784    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 42720    | 44.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.28%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 40918    | 47.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 94.70%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 69716    | 32.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 64.70%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 72236    | 97.26    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.26%  |
| 24) Chloroform-d               | 4.65    | 84    | 82268    | 45.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 56187    | 46.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 32) Benzene-d6                 | 5.35    | 84    | 166635   | 49.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.24%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 56423    | 48.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.84%  |
| 41) Toluene-d8                 | 7.57    | 98    | 155565   | 47.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.00%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 24467    | 45.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.96%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 55135    | 103.16   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 77871    | 45.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.72%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 63353    | 50.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.54% |

## Target Compounds

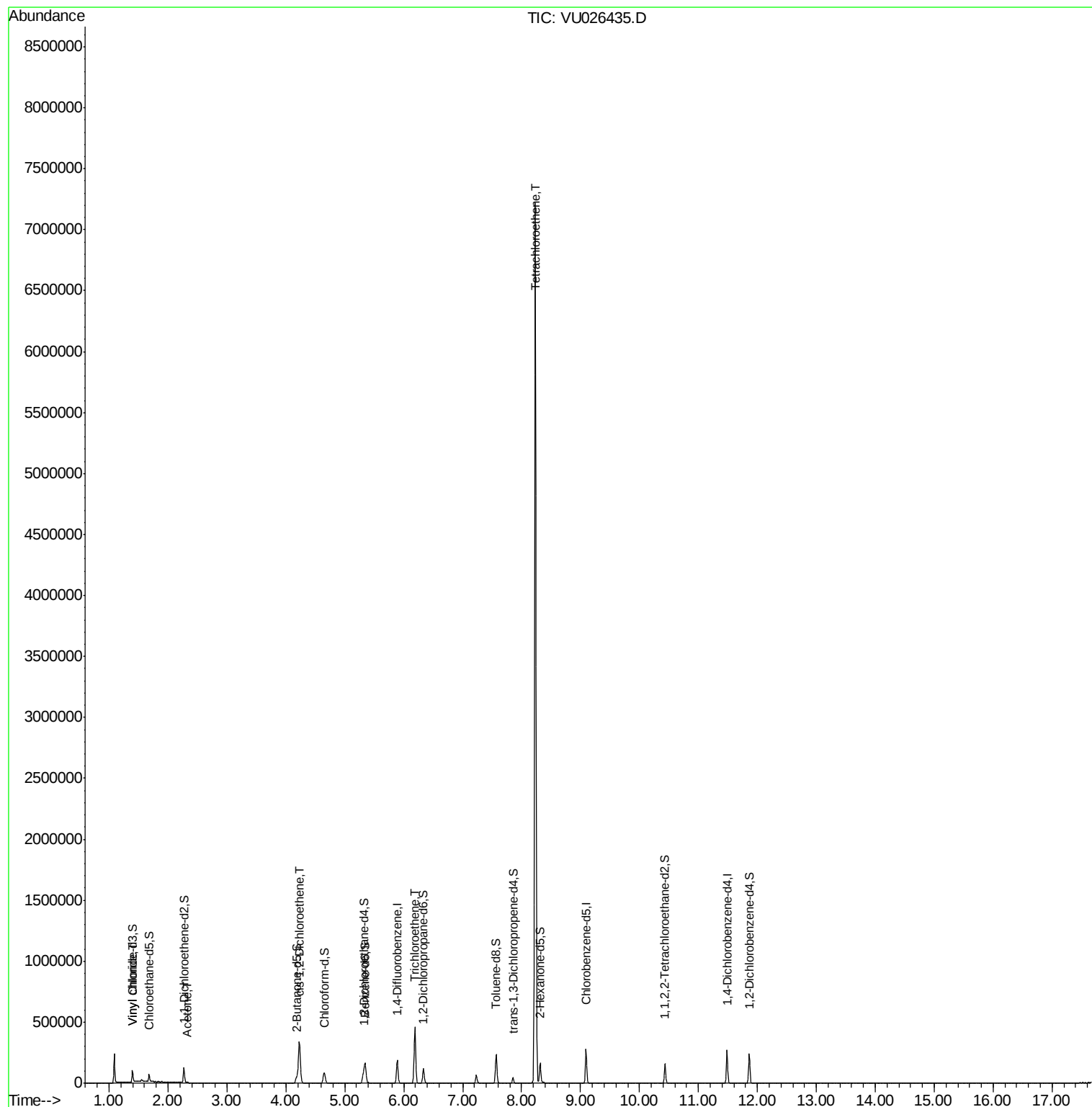
|                            |      |     |         |         |      | Ovalue |
|----------------------------|------|-----|---------|---------|------|--------|
| 5) Vinyl chloride          | 1.40 | 62  | 19167   | 11.89   | ug/L | 92     |
| 13) Acetone                | 2.32 | 43  | 7739    | 12.03   | ug/L | 95     |
| 20) cis-1,2-Dichloroethene | 4.23 | 96  | 190903  | 170.90  | ug/L | 97     |
| 34) Trichloroethene        | 6.19 | 95  | 155747  | 147.15  | ug/L | 98     |
| 46) Tetrachloroethene      | 8.23 | 164 | 1513099 | 1748.60 | ug/L | 98     |

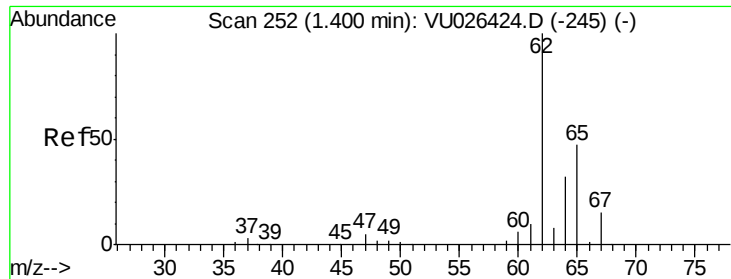
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Thu Aug 30 02:20:47 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 11.89 ug/L

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU026435.D

Acq: 29 Aug 2018 20:33

Instrument :

MSVOA\_U

ClientSampled :

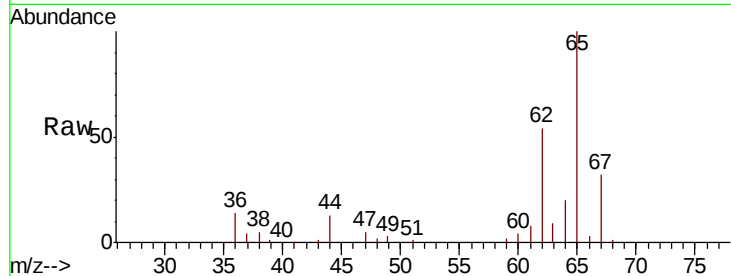
BEE04

Tot Ion: 62 Resp: 19167

Ion Ratio Lower Upper

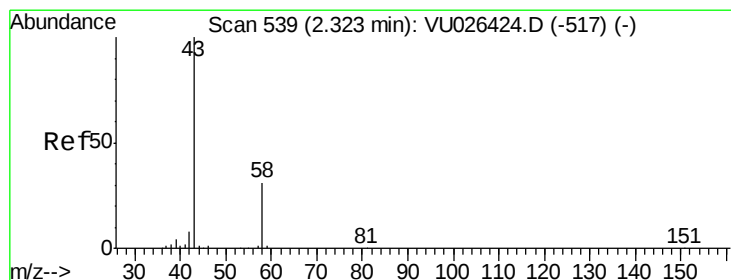
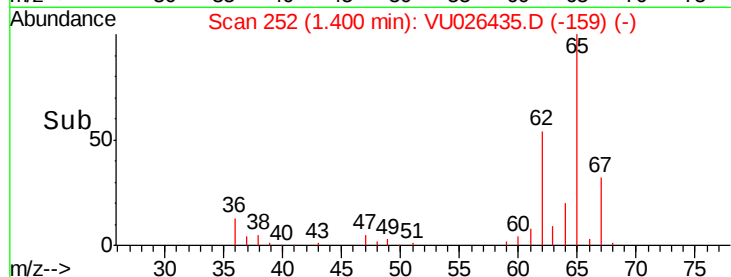
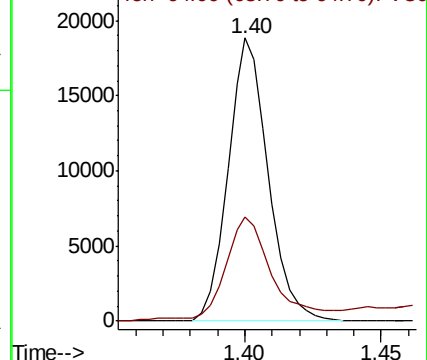
62 100

64 36.7 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#13

Acetone

Concen: 12.03 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU026435.D

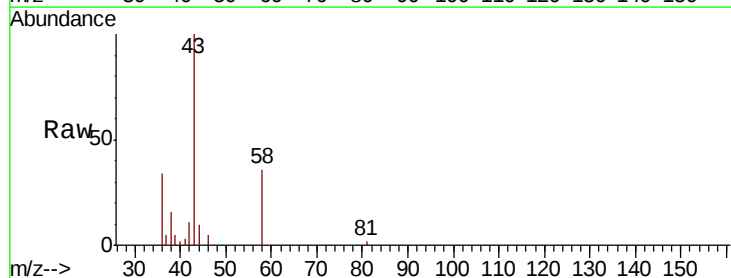
Acq: 29 Aug 2018 20:33

Tgt Ion: 43 Resp: 7739

Ion Ratio Lower Upper

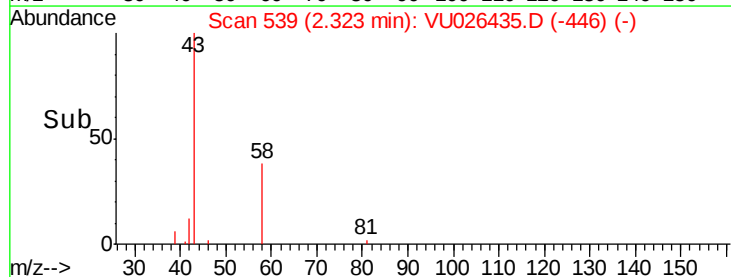
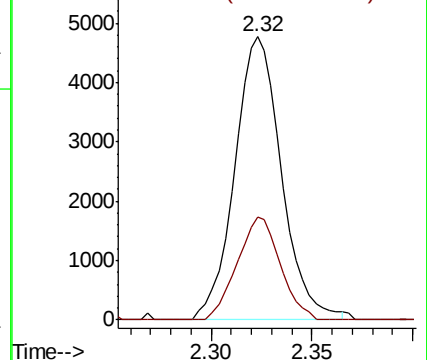
43 100

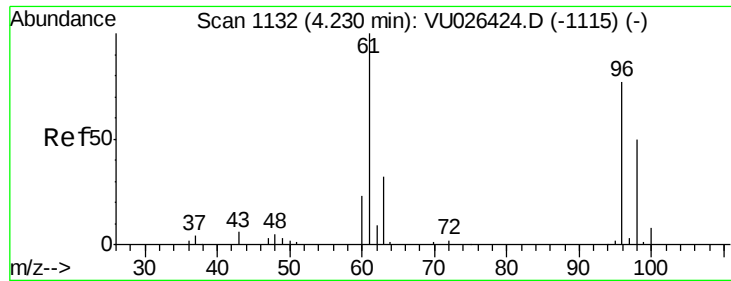
58 33.5 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

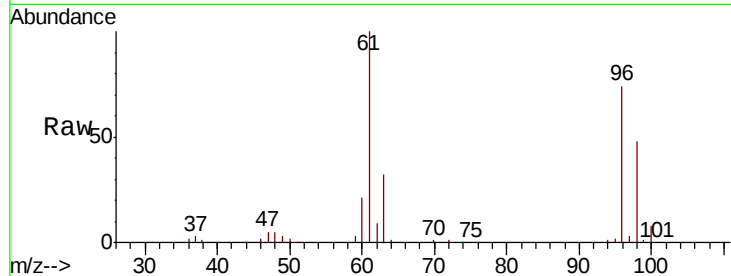




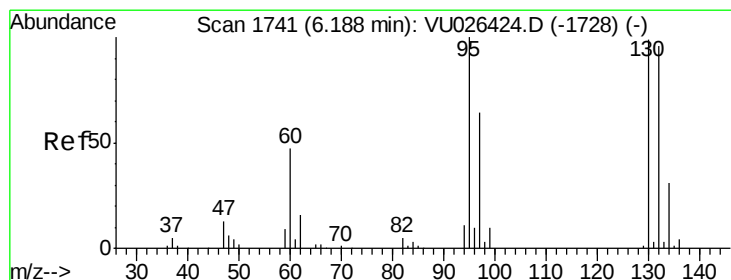
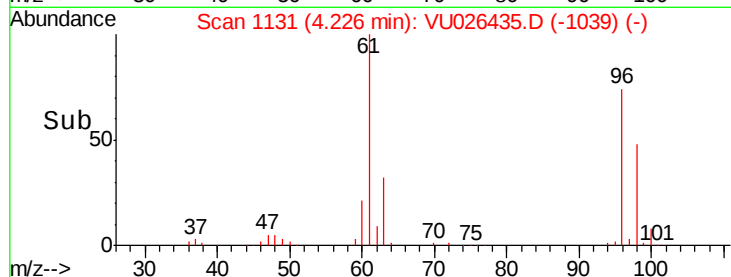
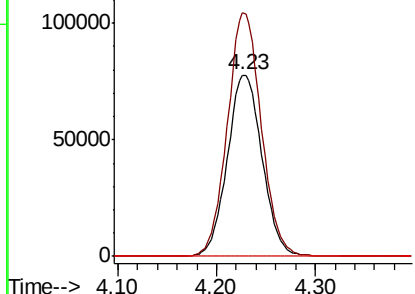
#20  
 cis-1,2-Dichloroethene  
 Concen: 170.90 ug/L  
 RT: 4.23 min Scan# 1131  
 Delta R.T. -0.00 min  
 Lab File: VU026435.D  
 Acq: 29 Aug 2018 20:33

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BEE04

Tot Ion: 96 Resp: 190903  
 Ion Ratio Lower Upper  
 96 100  
 61 134.4 91.6 170.2  
 68 0.0 0.0 0.0

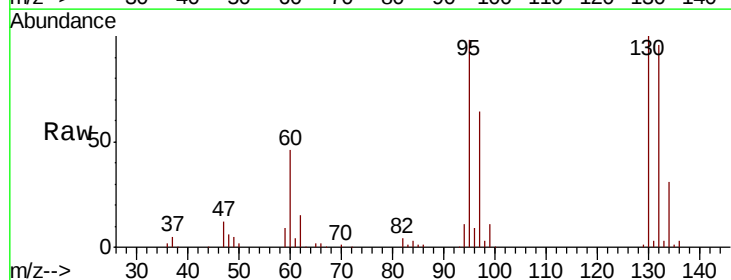


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.00 (60.70 to 61.70): VU0  
 Ion 68.00 (67.70 to 68.70): VU0

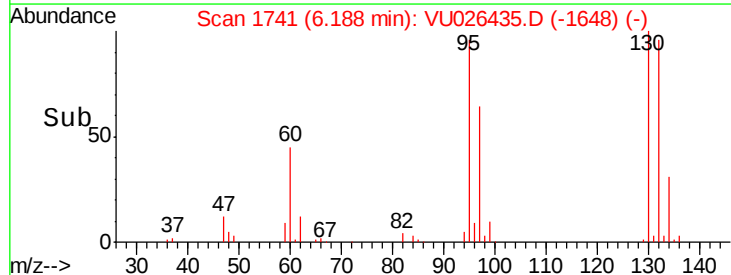
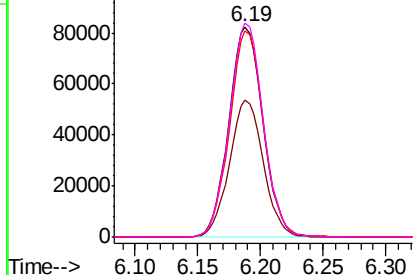


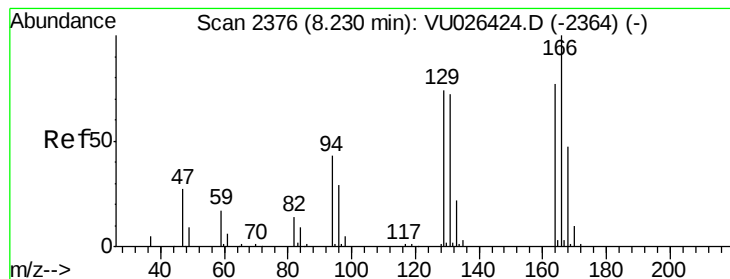
#34  
 Trichloroethene  
 Concen: 147.15 ug/L  
 RT: 6.19 min Scan# 1741  
 Delta R.T. -0.00 min  
 Lab File: VU026435.D  
 Acq: 29 Aug 2018 20:33

Tgt Ion: 95 Resp: 155747  
 Ion Ratio Lower Upper  
 95 100  
 97 65.2 45.1 83.7  
 132 97.8 67.5 125.3  
 130 101.7 69.3 128.7



Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V





#46

Tetrachloroethene

Concen: 1748.60 ug/L

RT: 8.23 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VU026435.D

Acq: 29 Aug 2018 20:33

Instrument :  
MSVOA\_U  
ClientSampleId :  
BEE04

Tot Ion:164 Resp: 1513099

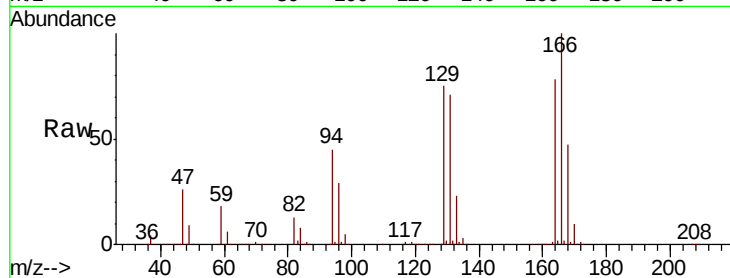
Ion Ratio Lower Upper

164 100

129 95.2 67.3 125.1

131 91.1 65.3 121.3

166 127.7 90.9 168.7



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

