

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101819\  
 Data File : VU035273.D  
 Acq On : 18 Oct 2019 18:01  
 Operator : JC/SP  
 Sample : K5419-05DL 4X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0G40DL

Quant Time: Oct 19 05:05:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 19 03:38:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 328761   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 321737   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 129784   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 91286    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.00%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 89276    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 130507   | 3.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 70.40%  |
| 20) 2-Butanone-d5              | 4.72   | 46    | 298456   | 51.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.62% |
| 24) Chloroform-d               | 5.11   | 84    | 183332   | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.20% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 106211   | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.60% |
| 32) Benzene-d6                 | 5.77   | 84    | 371105   | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.80% |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 122014   | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 104.40% |
| 41) Toluene-d8                 | 7.93   | 98    | 345763   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 51943    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.60%  |
| 46) 2-Hexanone-d5              | 8.69   | 63    | 246652   | 49.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 98.66%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 105442   | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 120335   | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.80% |

## Target Compounds

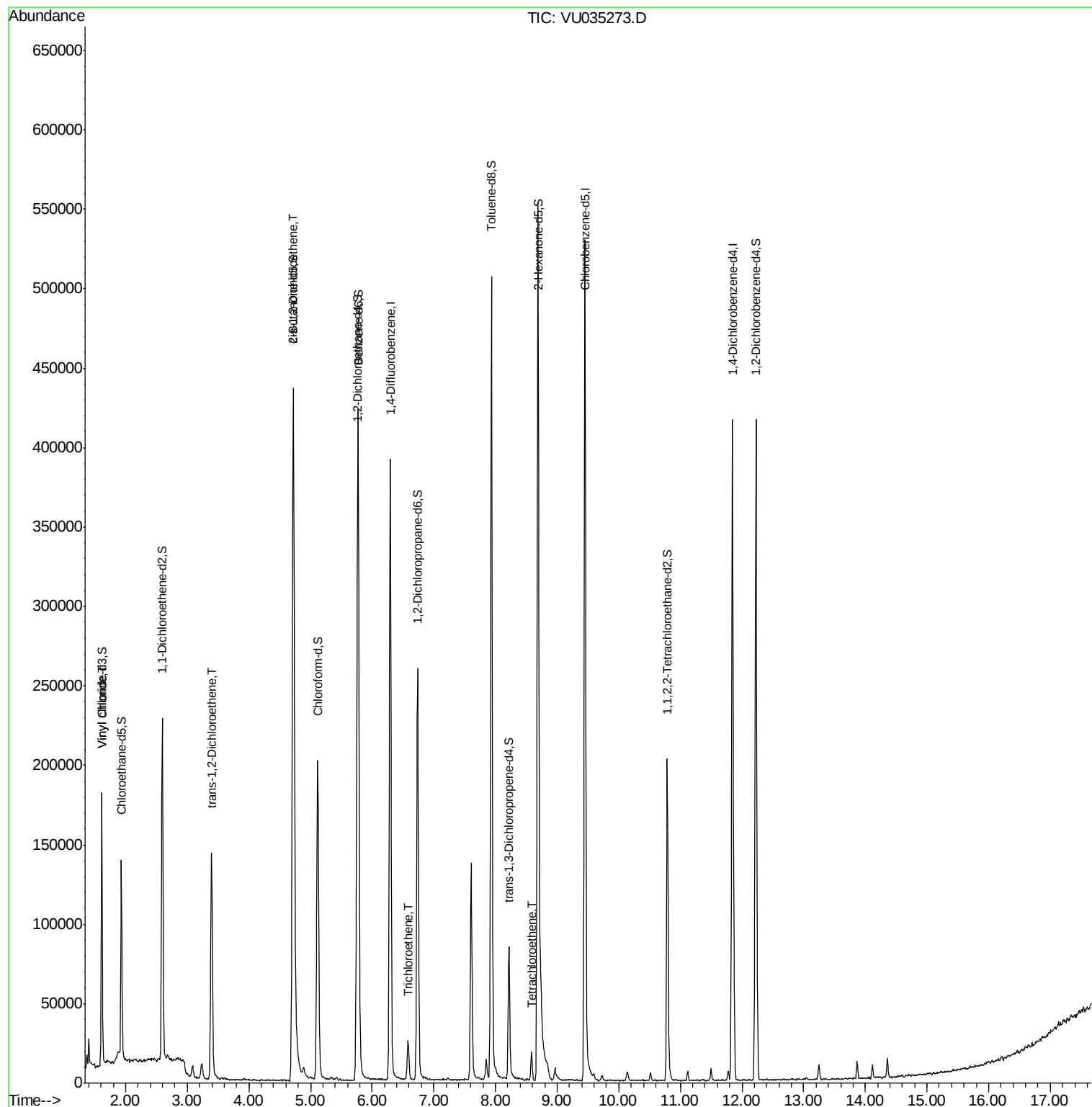
|                              |      |     |        |            | Ovalue |
|------------------------------|------|-----|--------|------------|--------|
| 5) Vinyl chloride            | 1.62 | 62  | 31101  | 1.091 ug/L | 94     |
| 18) trans-1,2-Dichloroethene | 3.39 | 96  | 62045  | 2.722 ug/L | 91     |
| 22) cis-1,2-Dichloroethene   | 4.72 | 96  | 142327 | 5.649 ug/L | 100    |
| 34) Trichloroethene          | 6.58 | 95  | 7660   | 0.301 ug/L | 93     |
| 47) Tetrachloroethene        | 8.58 | 164 | 4286   | 0.202 ug/L | 88     |

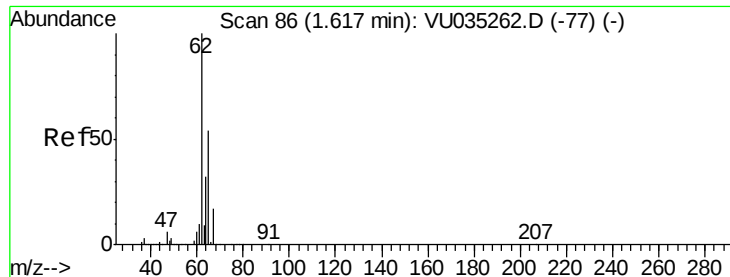
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.091 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035273.D

Acq: 18 Oct 2019 18:01

Instrument :

MSVOA\_U

ClientSampleId :

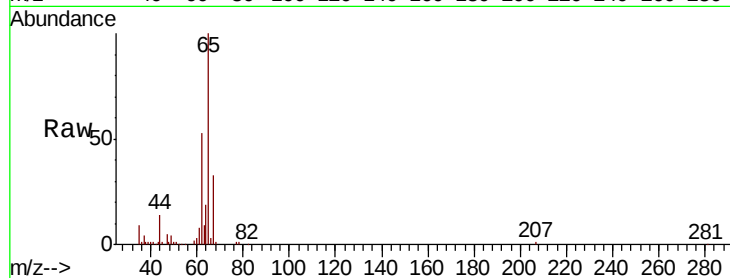
H0G40DL

Tot Ion: 62 Resp: 31101

Ion Ratio Lower Upper

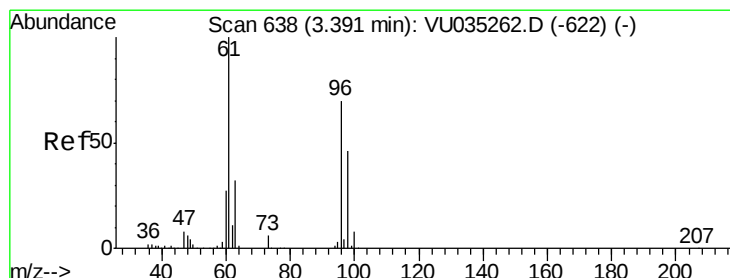
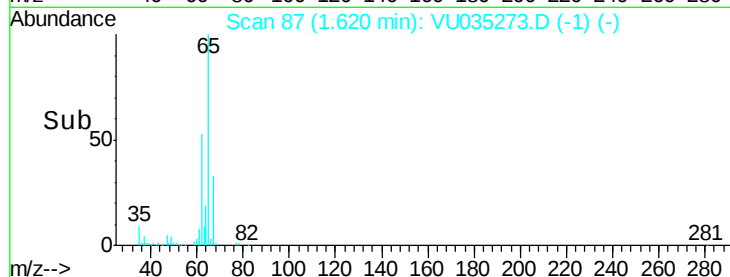
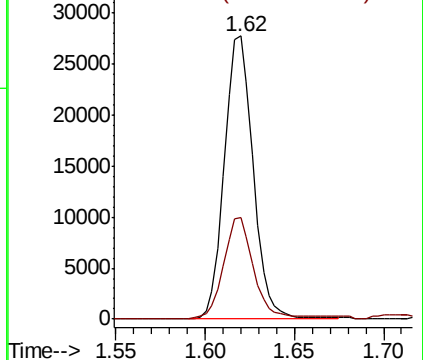
62 100

64 36.0 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 2.722 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035273.D

Acq: 18 Oct 2019 18:01

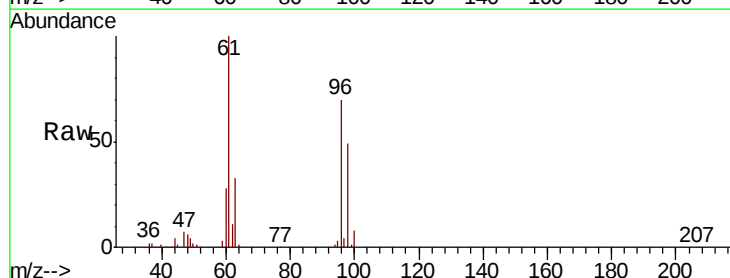
Tgt Ion: 96 Resp: 62045

Ion Ratio Lower Upper

96 100

61 142.9 93.0 172.6

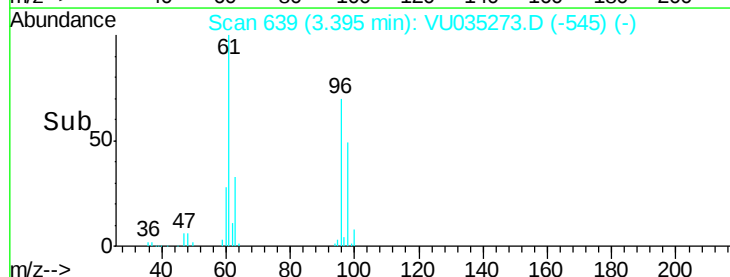
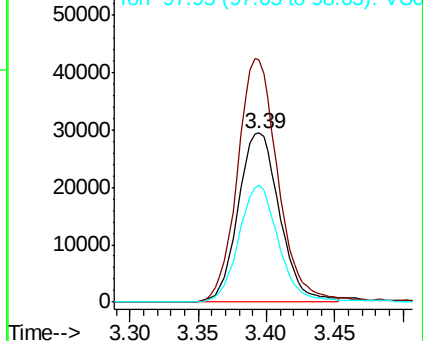
98 69.3 43.7 81.1

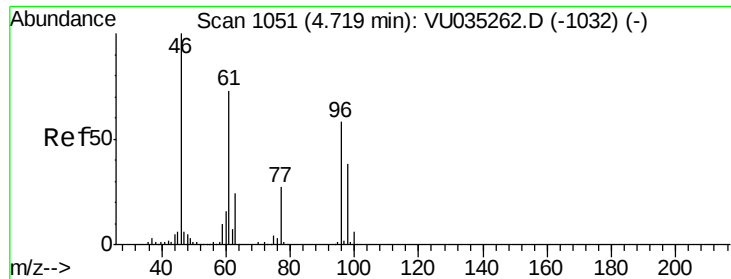


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

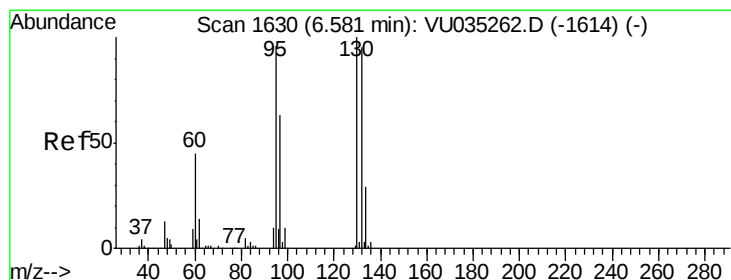
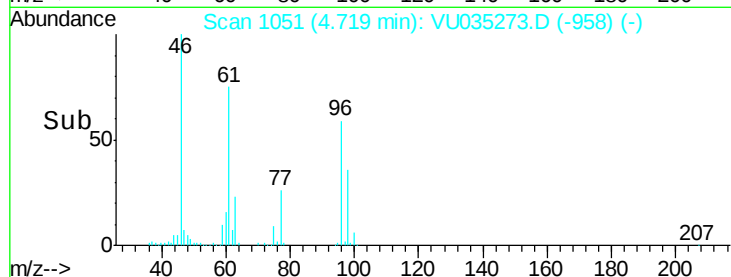
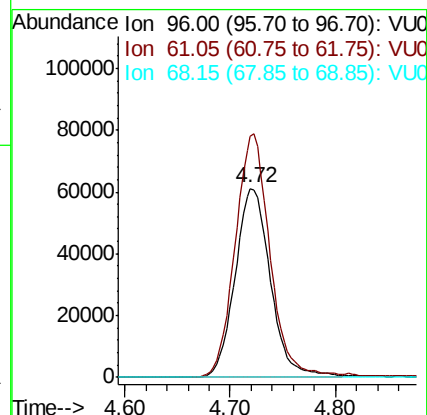
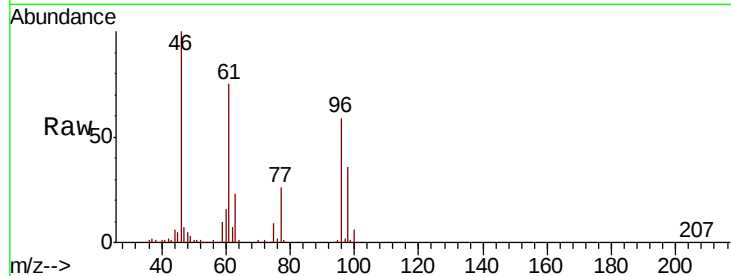




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.649 ug/L  
 RT: 4.72 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VU035273.D  
 Acq: 18 Oct 2019 18:01

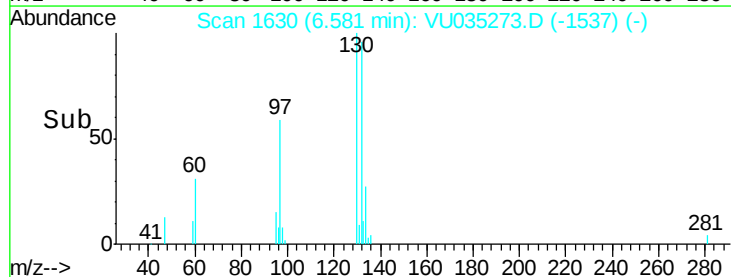
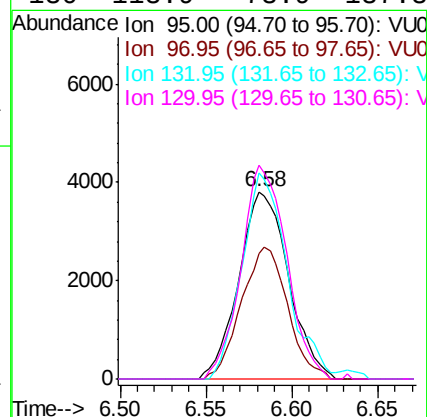
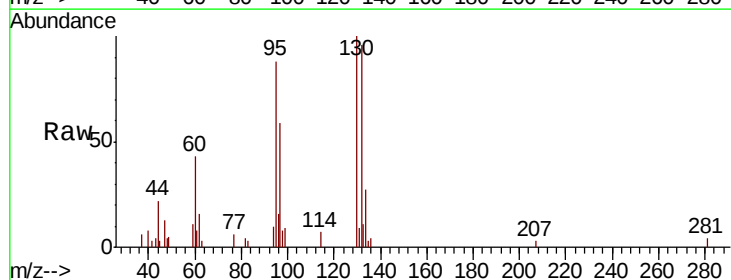
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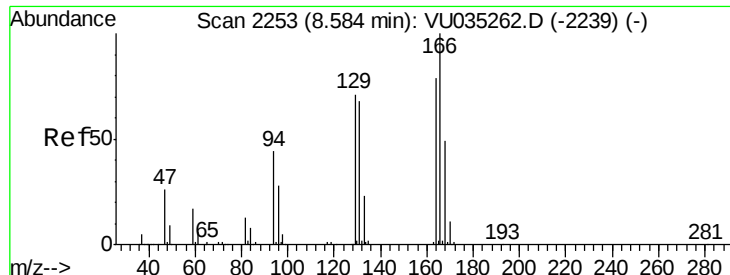
Tot Ion: 96 Resp: 142327  
 Ion Ratio Lower Upper  
 96 100  
 61 127.6 89.7 166.5  
 68 0.0 0.0 0.0



#34  
 Trichloroethene  
 Concen: 0.301 ug/L  
 RT: 6.58 min Scan# 1630  
 Delta R.T. -0.00 min  
 Lab File: VU035273.D  
 Acq: 18 Oct 2019 18:01

Tgt Ion: 95 Resp: 7660  
 Ion Ratio Lower Upper  
 95 100  
 97 66.7 46.6 86.6  
 132 109.6 68.7 127.7  
 130 113.9 73.9 137.3





#47

Tetrachloroethene

Concen: 0.202 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035273.D

Acq: 18 Oct 2019 18:01

Instrument :

MSVOA\_U

ClientSampleId :

H0G40DL

Tot Ion:164 Resp: 4286

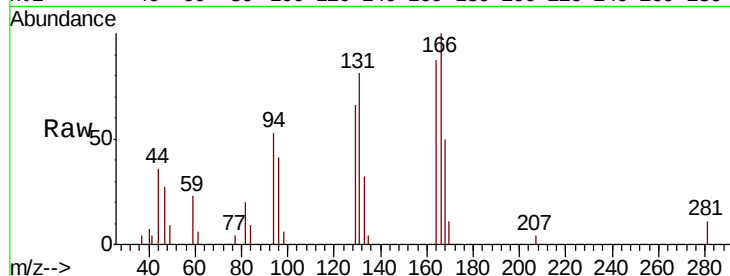
Ion Ratio Lower Upper

164 100

129 76.4 65.2 121.0

131 93.1 62.9 116.9

166 115.4 91.5 169.9



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

