

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102319\  
 Data File : VU035414.D  
 Acq On : 23 Oct 2019 17:10  
 Operator : JC/SP  
 Sample : K5461-09DL 10X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0G19DL

Quant Time: Oct 24 05:52:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Oct 24 05:20:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 238795   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 240833   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 87253    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 62832    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 64284    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 90976    | 3.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.60%  |
| 20) 2-Butanone-d5              | 4.71   | 46    | 240268   | 57.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 114.84% |
| 24) Chloroform-d               | 5.11   | 84    | 141012   | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.00% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 81192    | 5.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.20% |
| 32) Benzene-d6                 | 5.77   | 84    | 263624   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 93453    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 106.80% |
| 41) Toluene-d8                 | 7.93   | 98    | 221531   | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.00%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 33120    | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 78.00%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 168243   | 44.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.90%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 84652    | 5.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 77895    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.00%  |

## Target Compounds

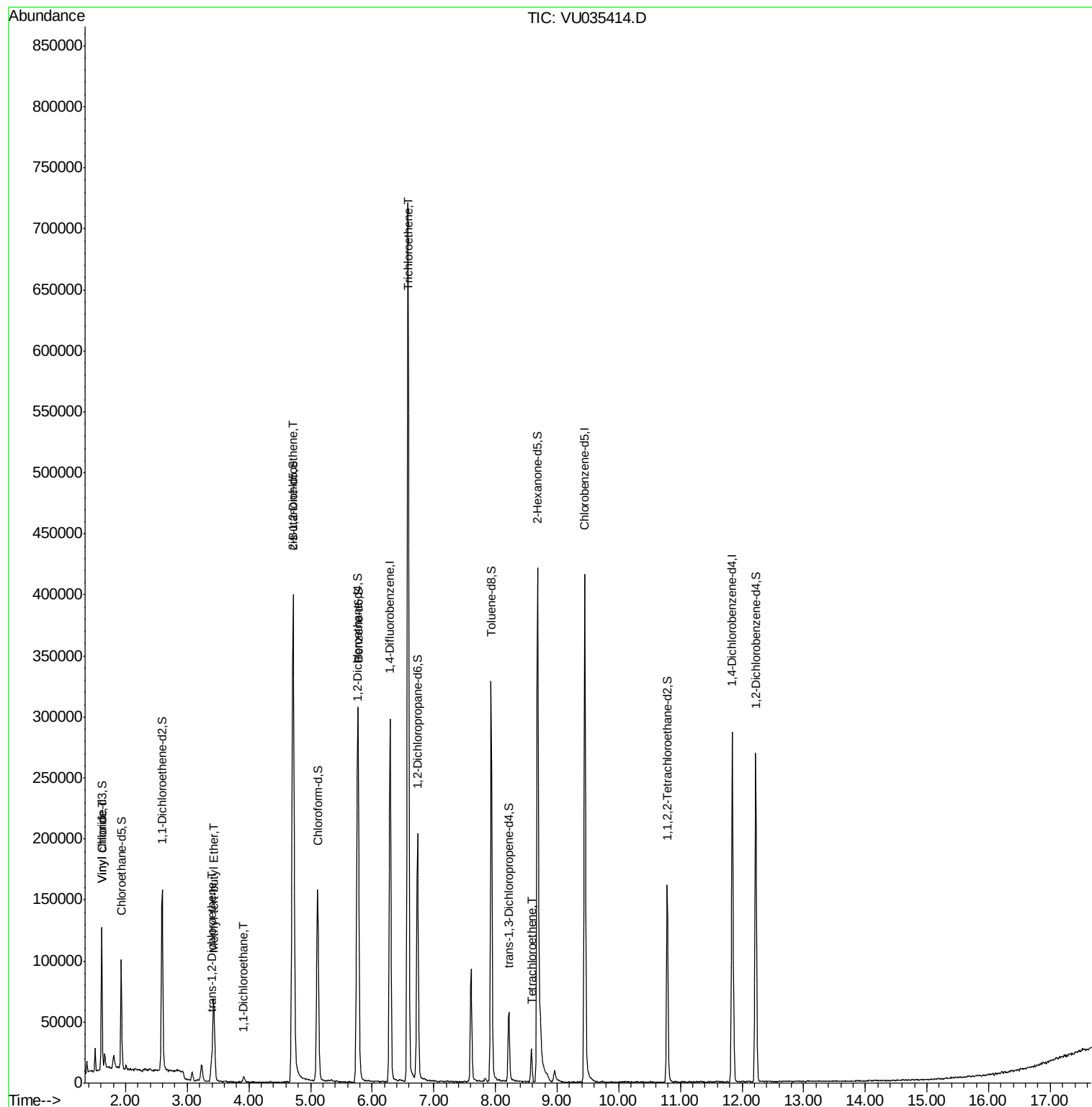
|                              |      |     |        |             | Ovalue |
|------------------------------|------|-----|--------|-------------|--------|
| 5) Vinyl chloride            | 1.62 | 62  | 14017  | 0.677 ug/L  | # 70   |
| 17) Methyl tert-butyl Ether  | 3.43 | 73  | 73149  | 1.772 ug/L  | 97     |
| 18) trans-1,2-Dichloroethene | 3.39 | 96  | 5638   | 0.341 ug/L  | 93     |
| 19) 1,1-Dichloroethane       | 3.91 | 63  | 4806   | 0.161 ug/L  | 92     |
| 22) cis-1,2-Dichloroethene   | 4.72 | 96  | 136574 | 7.463 ug/L  | 97     |
| 34) Trichloroethene          | 6.58 | 95  | 242349 | 12.721 ug/L | 98     |
| 47) Tetrachloroethene        | 8.58 | 164 | 6310   | 0.398 ug/L  | 94     |

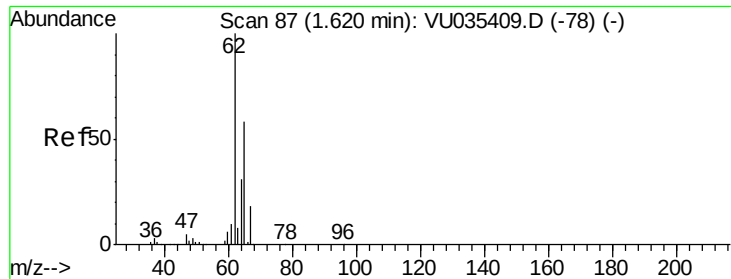
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Oct 24 05:20:56 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.677 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

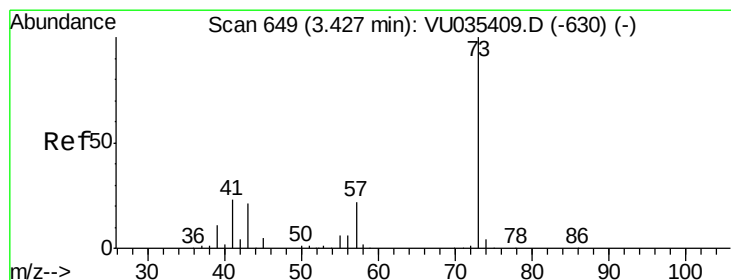
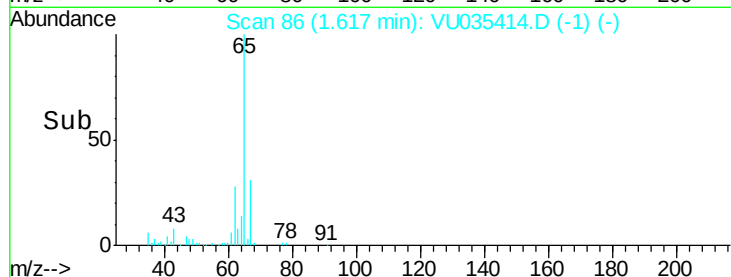
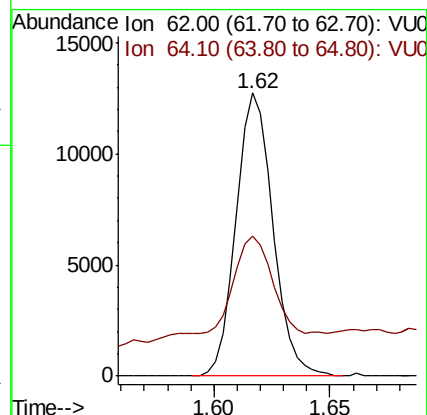
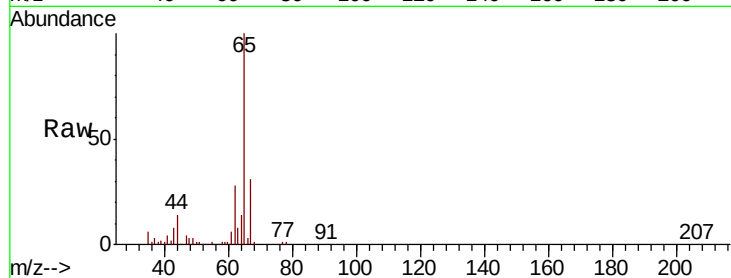
H0G19DL

Tot Ion: 62 Resp: 14017

Ion Ratio Lower Upper

62 100

64 49.4 22.9 42.5#



#17

Methyl tert-butyl Ether

Concen: 1.772 ug/L

RT: 3.43 min Scan# 649

Delta R.T. 0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

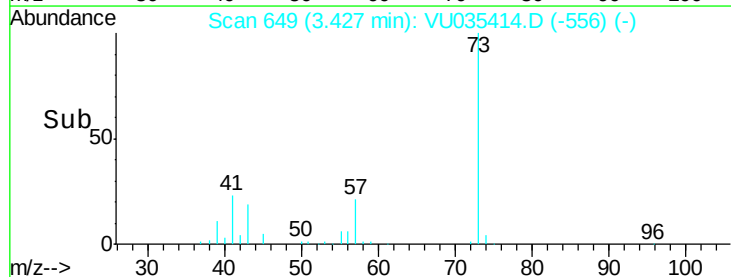
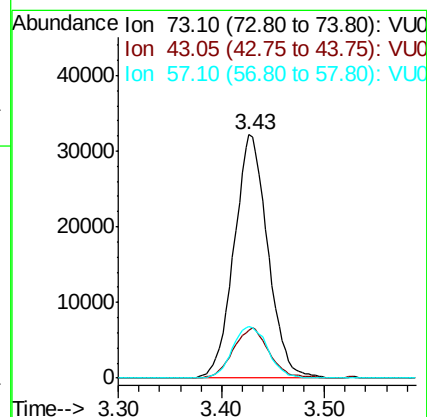
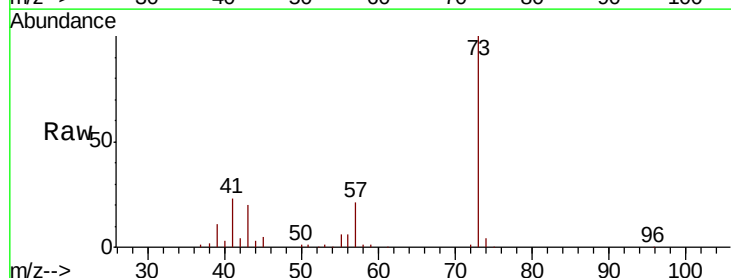
Tgt Ion: 73 Resp: 73149

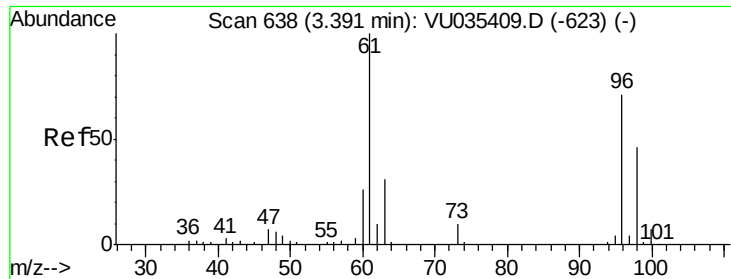
Ion Ratio Lower Upper

73 100

43 22.0 16.0 24.0

57 22.3 17.4 26.2





#18

trans-1,2-Dichloroethene

Concen: 0.341 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

H0G19DL

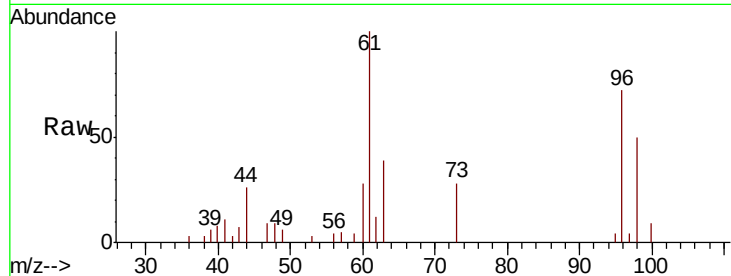
Tot Ion: 96 Resp: 5638

Ion Ratio Lower Upper

96 100

61 138.9 93.0 172.6

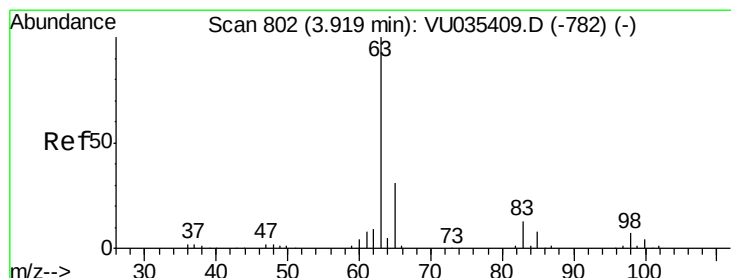
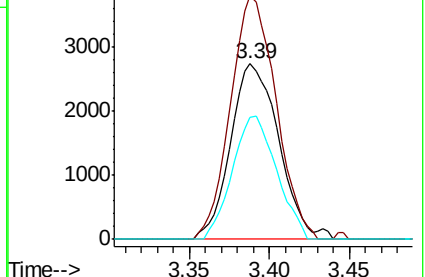
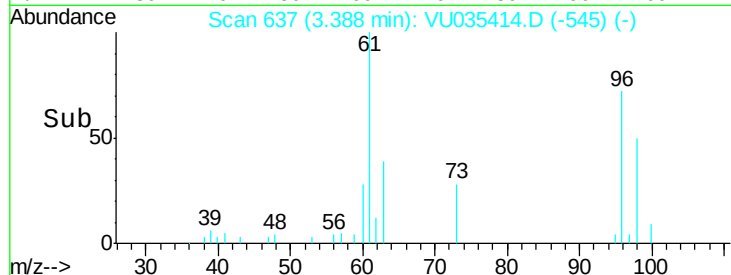
98 69.8 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035414.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU035414.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU035414.D (-545) (-)



#19

1,1-Dichloroethane

Concen: 0.161 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.01 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

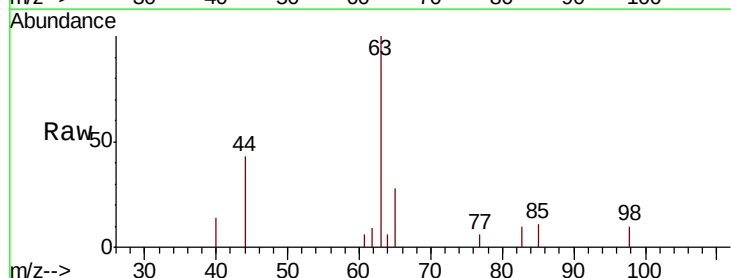
Tgt Ion: 63 Resp: 4806

Ion Ratio Lower Upper

63 100

65 28.1 22.4 41.6

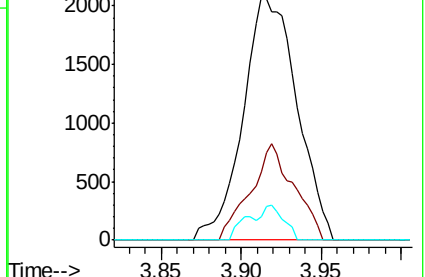
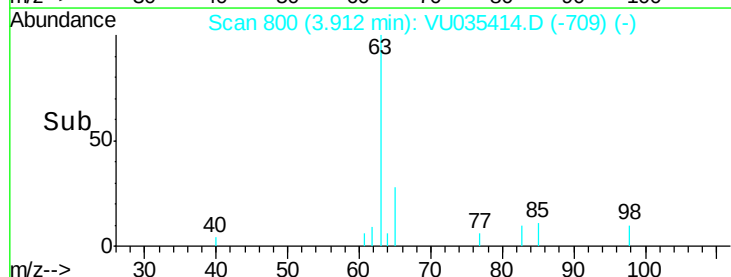
83 9.7 9.3 17.3

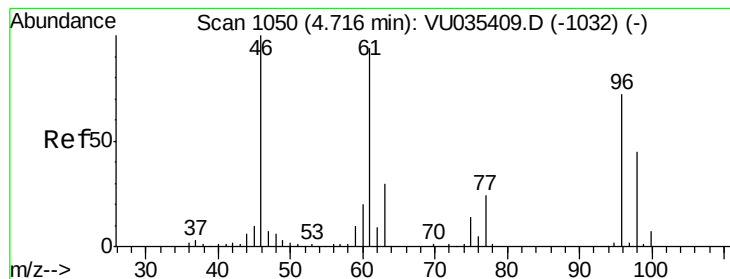


Abundance Ion 63.10 (62.80 to 63.80): VU035414.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU035414.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU035414.D (-709) (-)





#22

cis-1,2-Dichloroethene

Concen: 7.463 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

H0G19DL

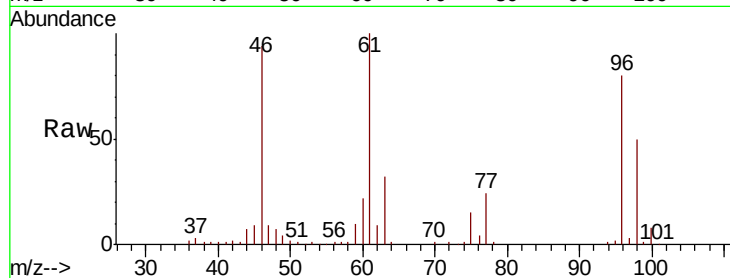
Tot Ion: 96 Resp: 136574

Ion Ratio Lower Upper

96 100

61 125.1 89.7 166.5

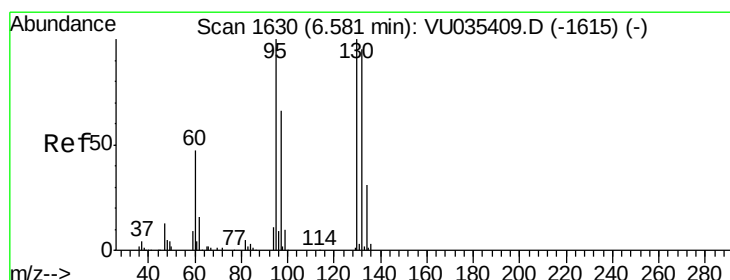
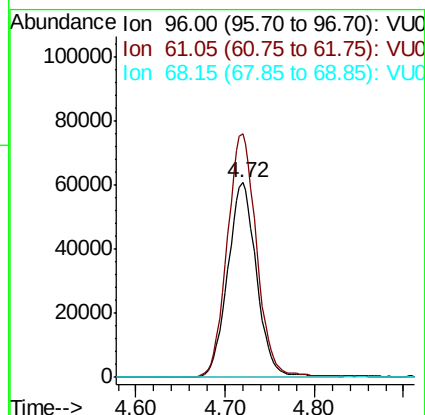
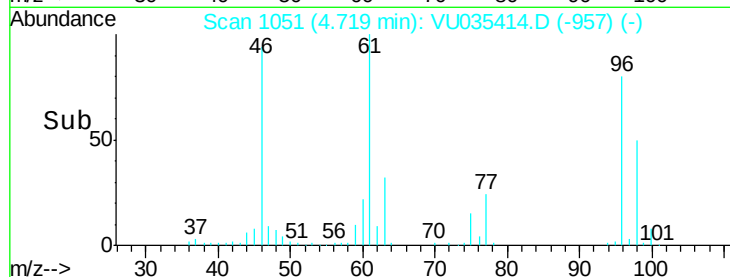
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035414.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU035414.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU035414.D (-957) (-)



#34

Trichloroethene

Concen: 12.721 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Tgt Ion: 95 Resp: 242349

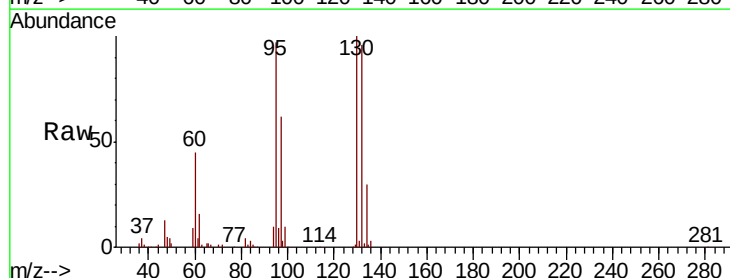
Ion Ratio Lower Upper

95 100

97 64.1 46.6 86.6

132 98.9 68.7 127.7

130 102.9 73.9 137.3

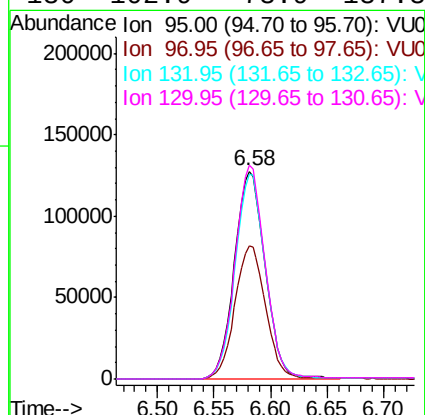
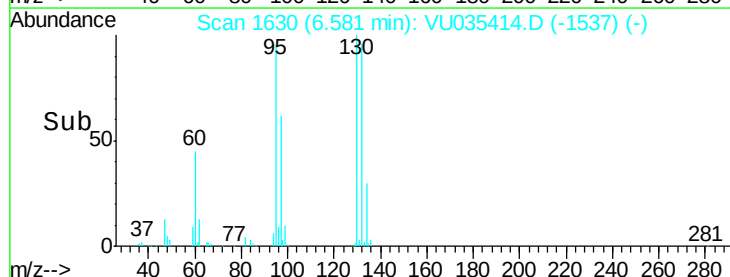


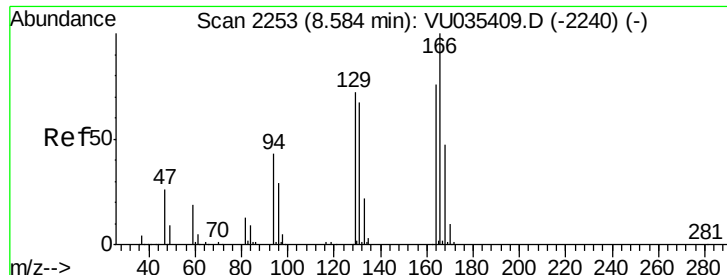
Abundance Ion 95.00 (94.70 to 95.70): VU035414.D (-1537) (-)

Ion 96.95 (96.65 to 97.65): VU035414.D (-1537) (-)

Ion 131.95 (131.65 to 132.65): VU035414.D (-1537) (-)

Ion 129.95 (129.65 to 130.65): VU035414.D (-1537) (-)





#47

Tetrachloroethene

Concen: 0.398 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035414.D

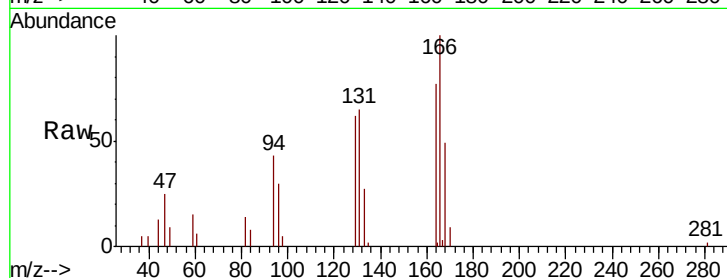
Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

H0G19DL



Tot Ion:164 Resp: 6310

Ion Ratio Lower Upper

164 100

129 80.7 65.2 121.0

131 84.7 62.9 116.9

166 130.1 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

