

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120619\  
 Data File : VU036035.D  
 Acq On : 06 Dec 2019 20:16  
 Operator : JC/SP  
 Sample : K6105-14DL 10X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFE33DL

Quant Time: Dec 07 00:59:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Dec 06 22:30:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 278093   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 294119   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 98191    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 135299   | 4.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 146771   | 5.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 115.60% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 173134   | 3.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 76.00%  |
| 20) 2-Butanone-d5              | 4.70   | 46    | 272599   | 48.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.12%  |
| 24) Chloroform-d               | 5.11   | 84    | 213609   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 114801   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 32) Benzene-d6                 | 5.77   | 84    | 422782   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 131599   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.40%  |
| 41) Toluene-d8                 | 7.93   | 98    | 354740   | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.40%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 50666    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.00%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 225542   | 50.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 113152   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 114445   | 5.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 112.80% |

## Target Compounds

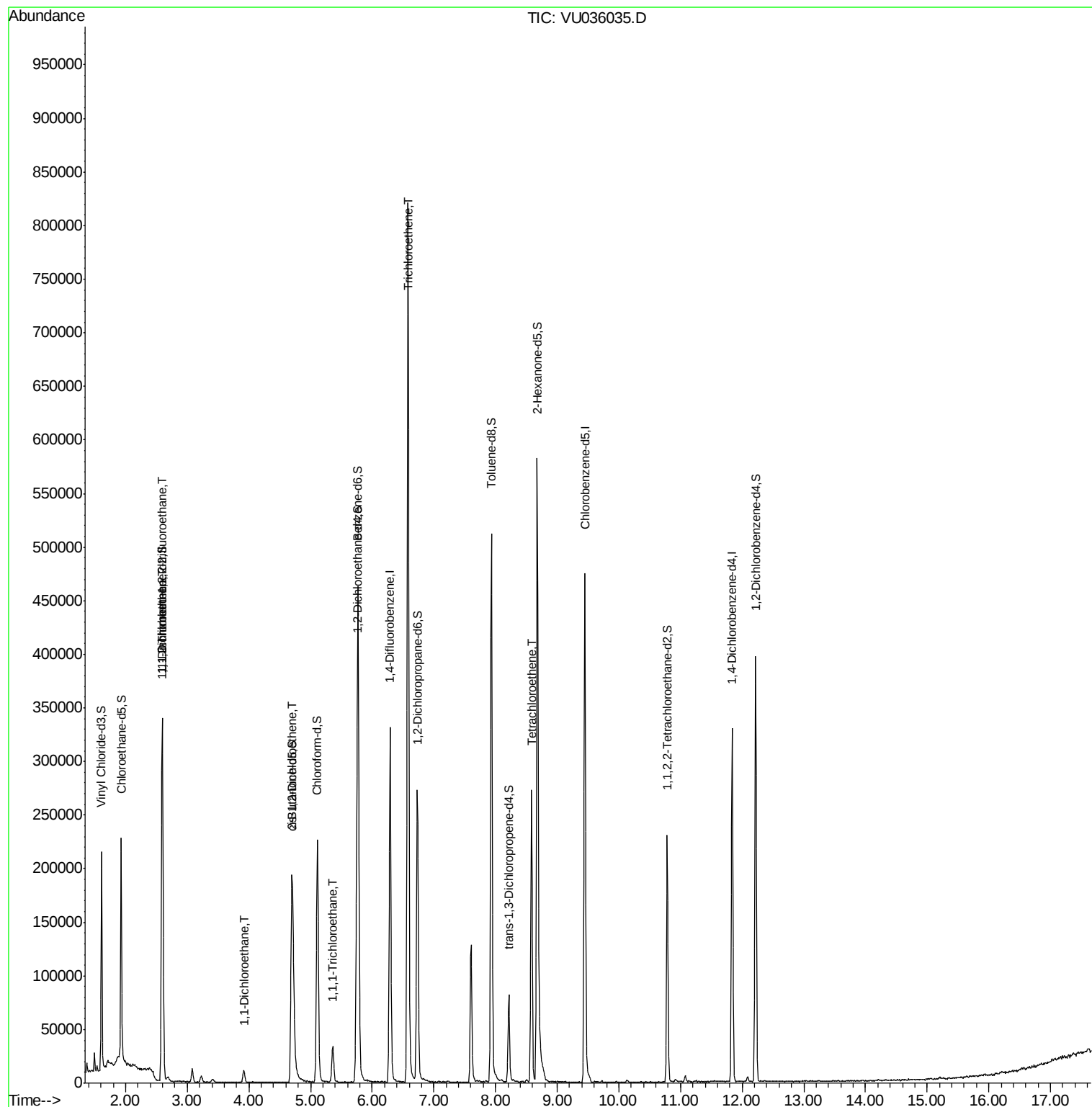
|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 9409   | 0.440 ug/L # | 89     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 40419  | 2.028 ug/L # | 77     |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 12609  | 0.306 ug/L   | 95     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 25478  | 1.143 ug/L   | 85     |
| 29) 1,1,1-Trichloroethane      | 5.36 | 97  | 24864  | 0.699 ug/L   | 95     |
| 34) Trichloroethene            | 6.58 | 95  | 284526 | 12.165 ug/L  | 94     |
| 47) Tetrachloroethene          | 8.58 | 164 | 66946  | 3.522 ug/L   | 96     |

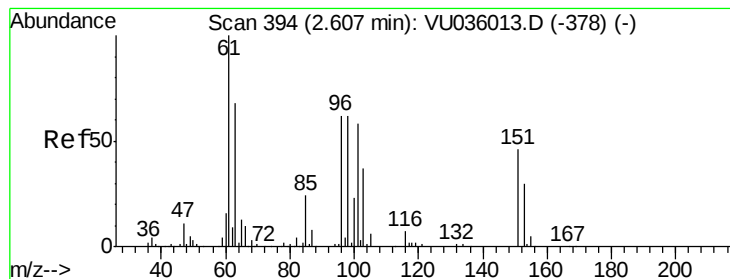
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 07 00:59:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120319WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Dec 06 22:30:31 2019  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.440 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU036035.D

Acq: 06 Dec 2019 20:16

Instrument :

MSVOA\_U

ClientSampleId :

BFE33DL

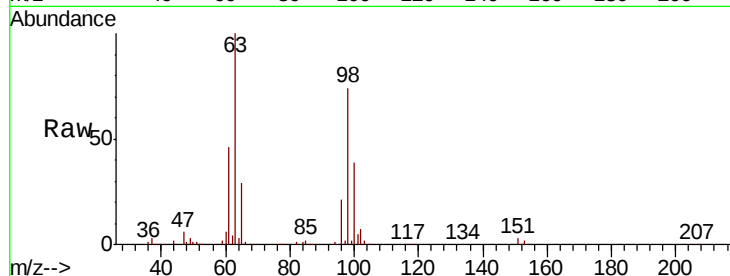
Tot Ion:101 Resp: 9409

Ion Ratio Lower Upper

101 100

85 32.6 35.5 53.3#

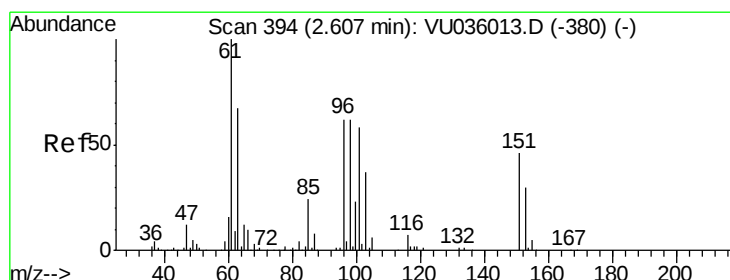
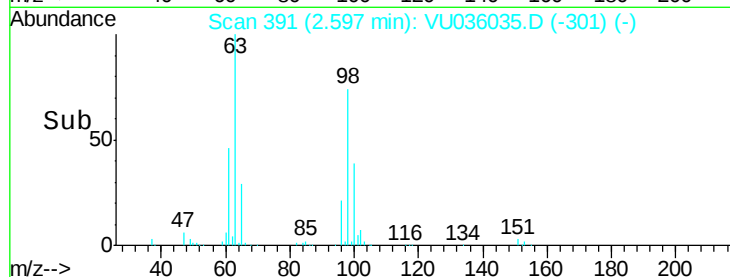
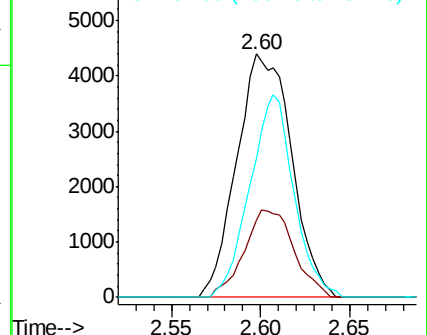
151 67.0 57.5 86.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.028 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036035.D

Acq: 06 Dec 2019 20:16

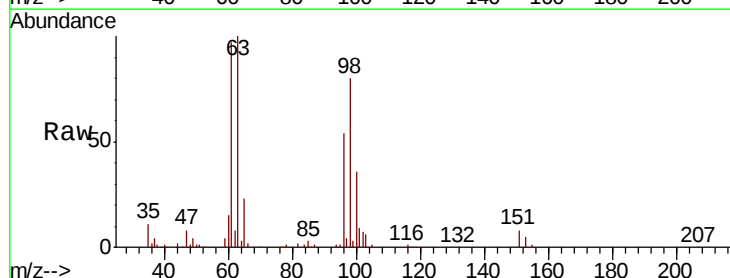
Tgt Ion: 96 Resp: 40419

Ion Ratio Lower Upper

96 100

61 177.8 127.1 236.1

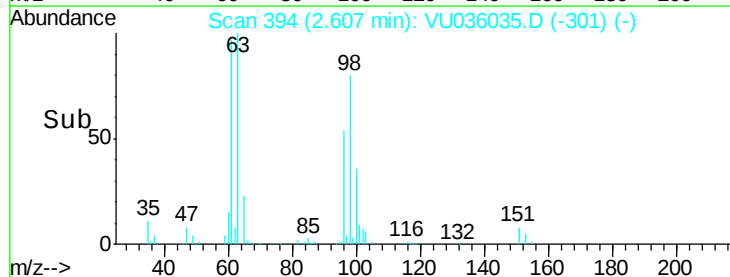
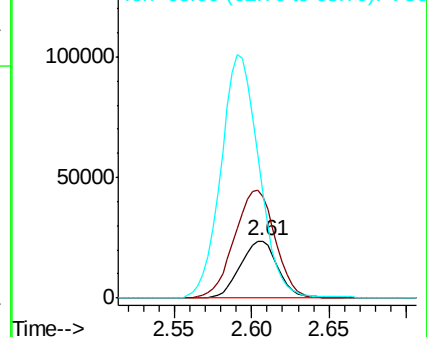
63 184.1 86.0 159.8#

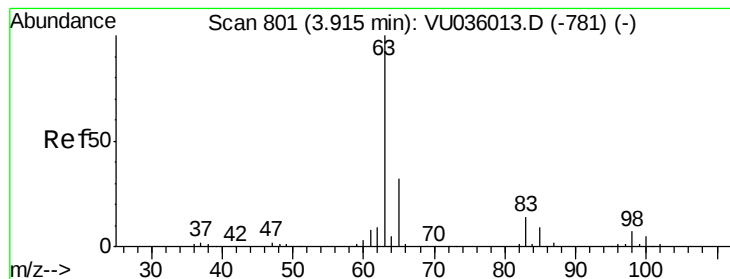


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#19

1,1-Dichloroethane

Concen: 0.306 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036035.D

Acq: 06 Dec 2019 20:16

Instrument :

MSVOA\_U

ClientSampleId :

BFE33DL

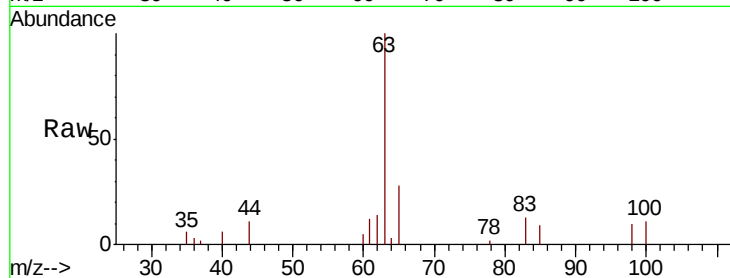
Tot Ion: 63 Resp: 12609

Ion Ratio Lower Upper

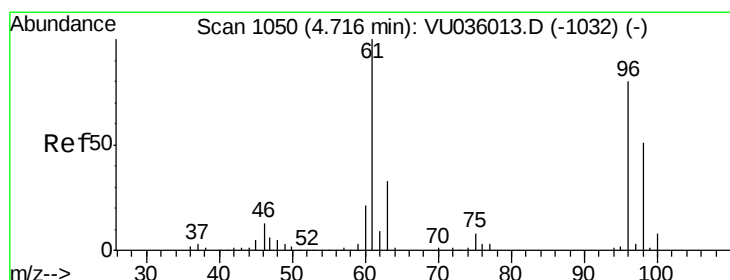
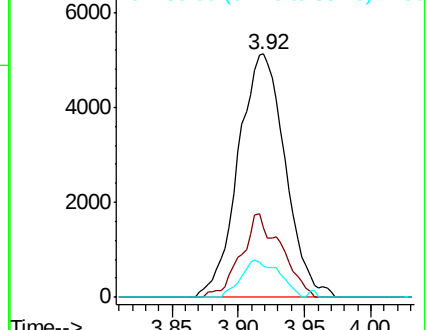
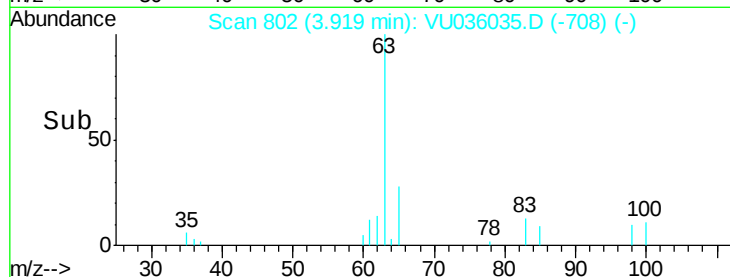
63 100

65 28.4 22.4 41.6

83 12.9 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU036035.D (-708) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.143 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU036035.D

Acq: 06 Dec 2019 20:16

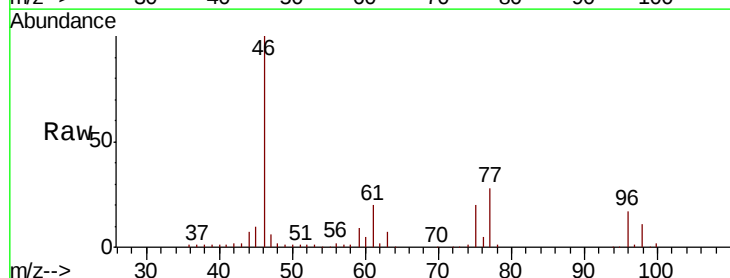
Tgt Ion: 96 Resp: 25478

Ion Ratio Lower Upper

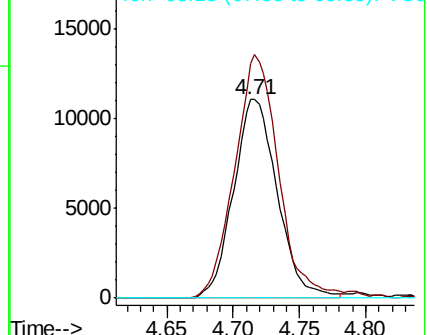
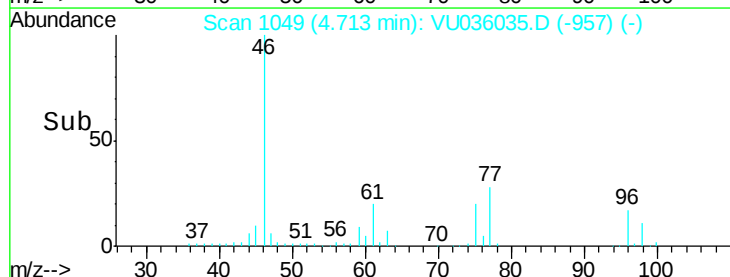
96 100

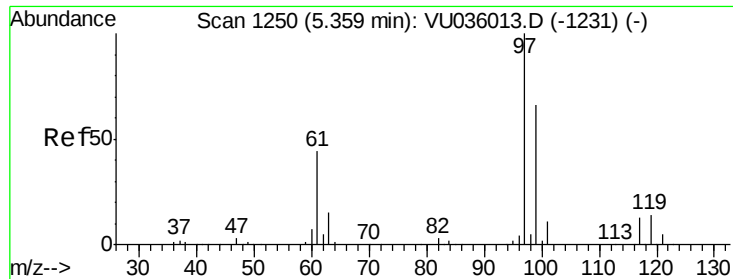
61 118.2 95.7 177.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036035.D (-957) (-)

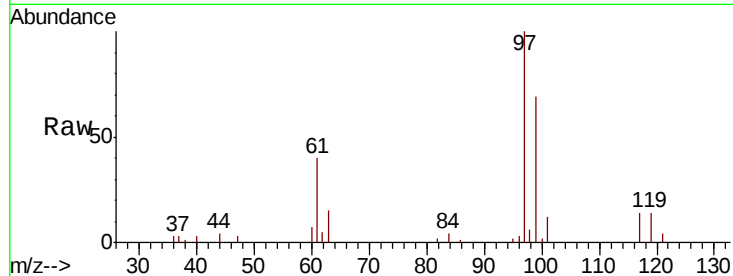




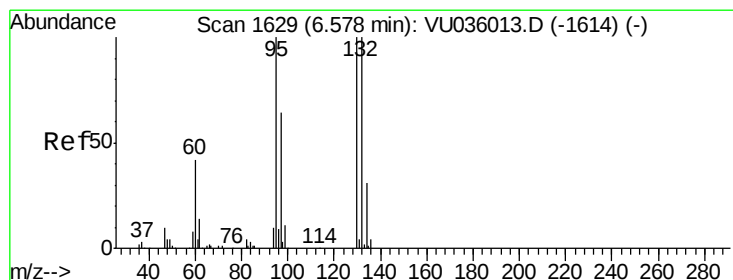
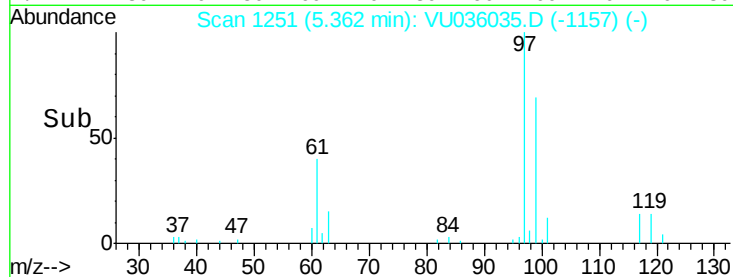
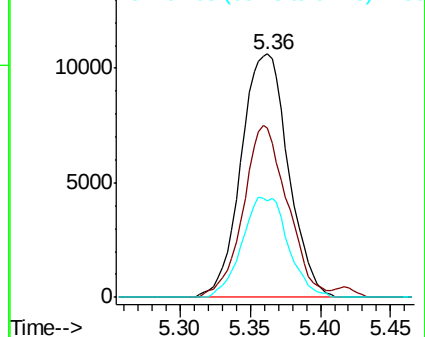
#29  
1,1,1-Trichloroethane  
Concen: 0.699 ug/L  
RT: 5.36 min Scan# 1251  
Delta R.T. 0.00 min  
Lab File: VU036035.D  
Acq: 06 Dec 2019 20:16

Instrument :  
MSVOA\_U  
ClientSampled :  
BFE33DL

Tot Ion: 97 Resp: 24864  
Ion Ratio Lower Upper  
97 100  
99 66.3 51.8 77.8  
61 40.2 37.6 56.4

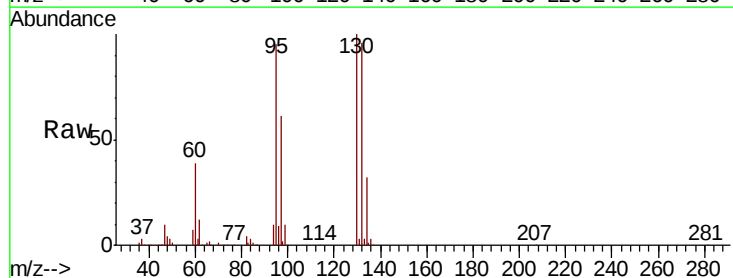


Abundance Ion 96.95 (96.65 to 97.65): VU0  
Ion 99.05 (98.75 to 99.75): VU0  
Ion 61.05 (60.75 to 61.75): VU0

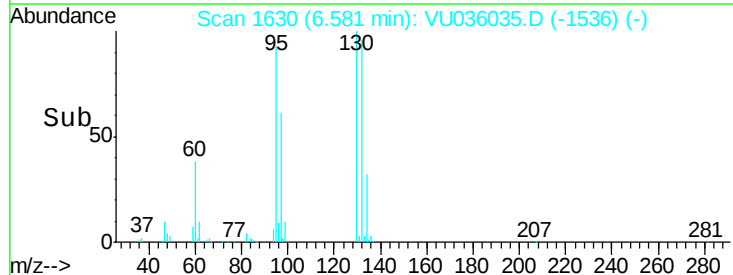
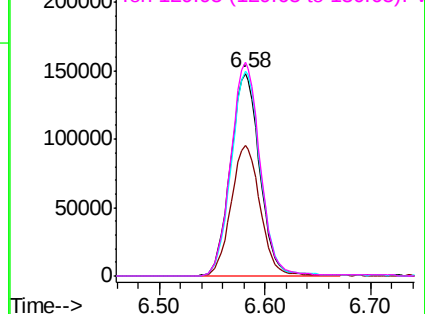


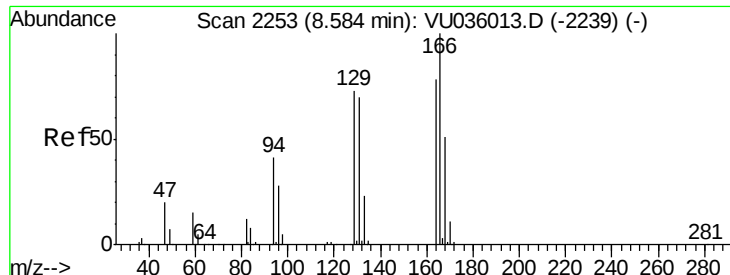
#34  
Trichloroethene  
Concen: 12.165 ug/L  
RT: 6.58 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VU036035.D  
Acq: 06 Dec 2019 20:16

Tgt Ion: 95 Resp: 284526  
Ion Ratio Lower Upper  
95 100  
97 64.2 46.3 85.9  
132 101.1 65.7 122.1  
130 105.4 69.2 128.6



Abundance Ion 95.00 (94.70 to 95.70): VU0  
Ion 96.95 (96.65 to 97.65): VU0  
Ion 131.95 (131.65 to 132.65): V  
Ion 129.95 (129.65 to 130.65): V





#47

Tetrachloroethene

Concen: 3.522 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU036035.D

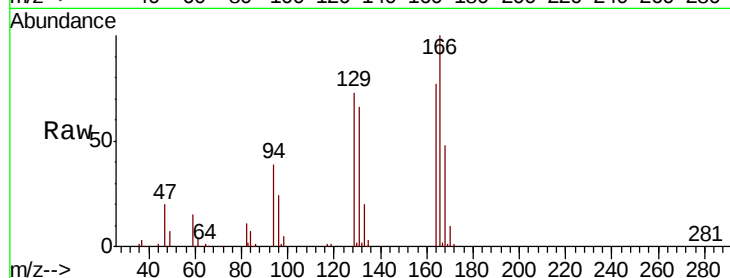
Acq: 06 Dec 2019 20:16

Instrument :

MSVOA\_U

ClientSampleId :

BFE33DL



Tot Ion:164 Resp: 66946

Ion Ratio Lower Upper

164 100

129 93.9 67.9 126.1

131 84.8 64.1 119.1

166 129.0 92.6 172.0

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

