

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091518\  
 Data File : VU026766.D  
 Acq On : 14 Sep 2018 15:13  
 Operator : MD/SY  
 Sample : J4890-03 50X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0SZ3

Quant Time: Sep 15 01:55:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 15 00:18:06 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 164768   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 152933   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 63644    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 51723    | 42.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.24%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 43811    | 44.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.56%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 74171    | 33.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.50%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 78936    | 103.31   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.31% |
| 24) Chloroform-d               | 4.65    | 84    | 89407    | 43.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.58%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 61901    | 46.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.66%  |
| 32) Benzene-d6                 | 5.34    | 84    | 182890   | 46.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.42%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 63903    | 48.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.22%  |
| 41) Toluene-d8                 | 7.57    | 98    | 157129   | 42.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.62%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 26383    | 42.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.44%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 53452    | 98.63    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.63%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 83754    | 46.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.10%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 59420    | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.66%  |

## Target Compounds

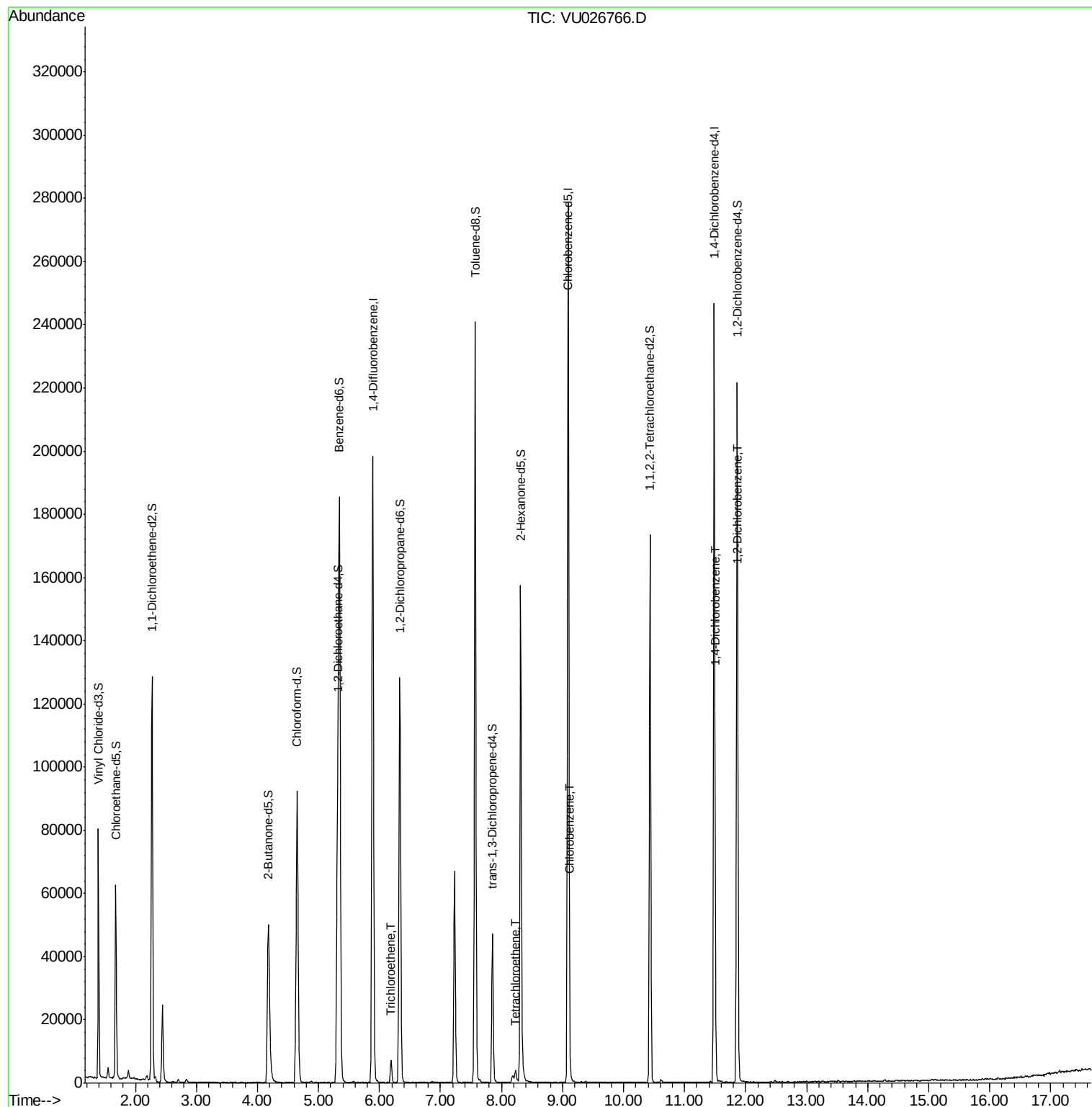
| Target Compounds        | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|-------|------|----------|-------|--------|--------|
| 34) Trichloroethene     | 6.19  | 95   | 2539     | 2.385 | ug/L   | 96     |
| 46) Tetrachloroethene   | 8.23  | 164  | 751      | 0.839 | ug/L   | 92     |
| 51) Chlorobenzene       | 9.12  | 112  | 1847     | 0.634 | ug/L   | 97     |
| 63) 1,4-Dichlorobenzene | 11.51 | 146  | 2610     | 1.348 | ug/L   | 99     |
| 65) 1,2-Dichlorobenzene | 11.88 | 146  | 1990     | 1.030 | ug/L # | 82     |

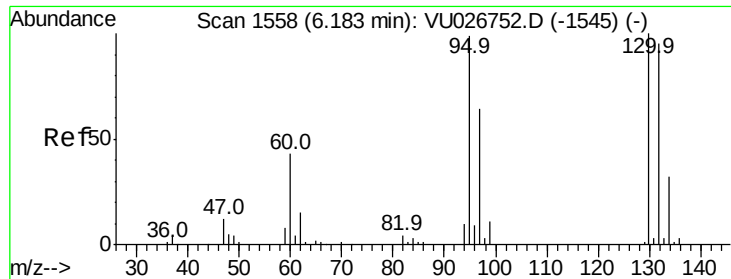
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Sep 15 00:18:06 2018  
Response via : Initial Calibration





#34

Trichloroethene

Concen: 2.385 ug/L

RT: 6.19 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VU026766.D

Acq: 14 Sep 2018 15:13

Instrument :

MSVOA\_U

ClientSampleId :

C0SZ3

Tot Ion: 95 Resp: 2539

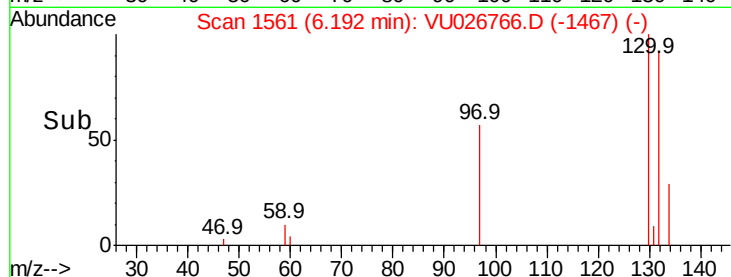
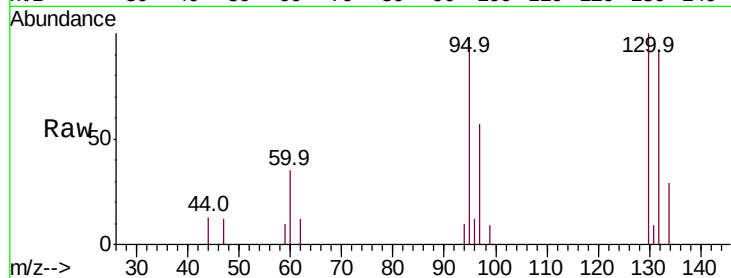
Ion Ratio Lower Upper

95 100

97 57.9 44.9 83.5

132 94.0 69.7 129.5

130 102.4 72.4 134.4

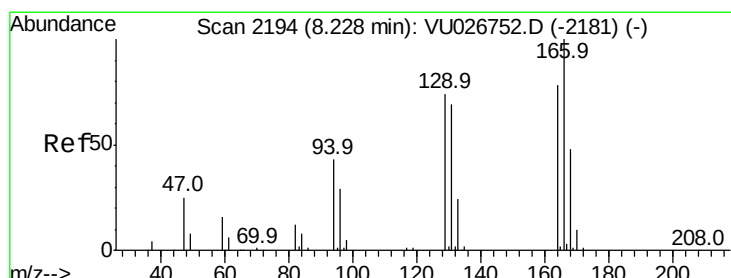
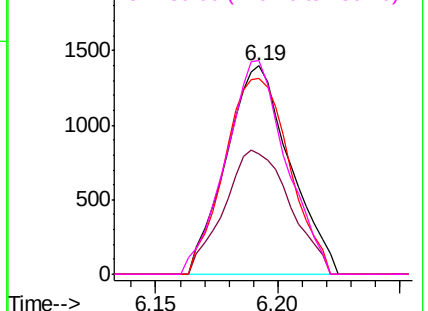


Abundance Ion 95.00 (94.70 to 95.70): VU026752.D (-1545) (-)

Ion 97.00 (96.70 to 97.70): VU026752.D (-1545) (-)

Ion 132.00 (131.70 to 132.70): VU026752.D (-1545) (-)

Ion 130.00 (129.70 to 130.70): VU026752.D (-1545) (-)



#46

Tetrachloroethene

Concen: 0.839 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU026766.D

Acq: 14 Sep 2018 15:13

Tgt Ion: 164 Resp: 751

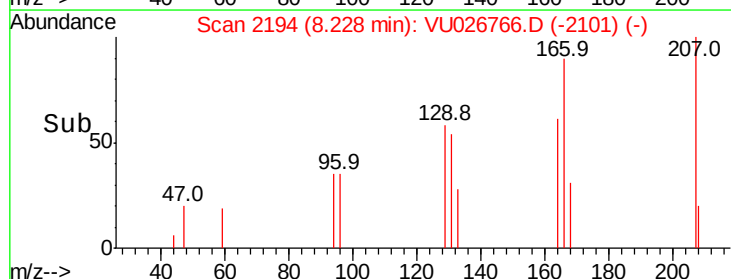
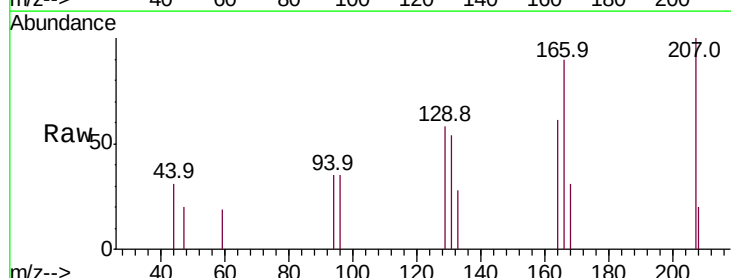
Ion Ratio Lower Upper

164 100

129 94.9 65.0 120.8

131 88.6 62.5 116.1

166 147.6 89.0 165.2

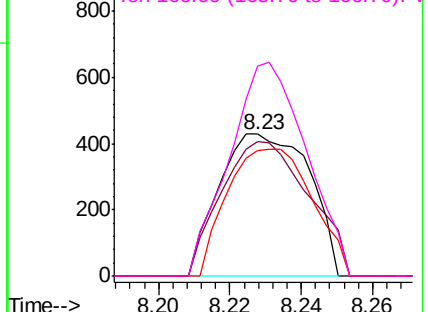


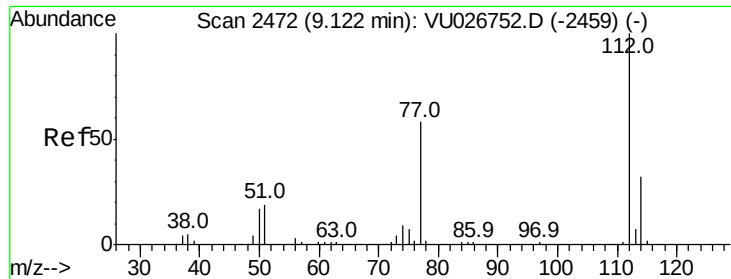
Abundance Ion 164.00 (163.70 to 164.70): VU026752.D (-2181) (-)

Ion 129.00 (128.70 to 129.70): VU026752.D (-2181) (-)

Ion 131.00 (130.70 to 131.70): VU026752.D (-2181) (-)

Ion 166.00 (165.70 to 166.70): VU026752.D (-2181) (-)

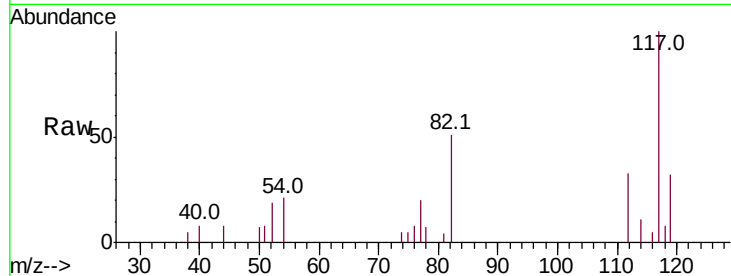




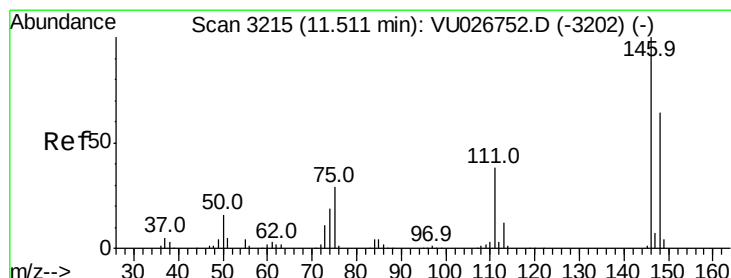
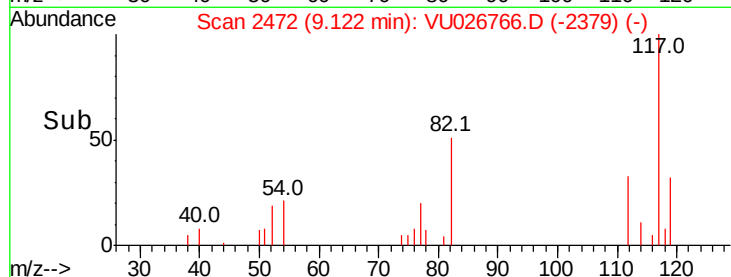
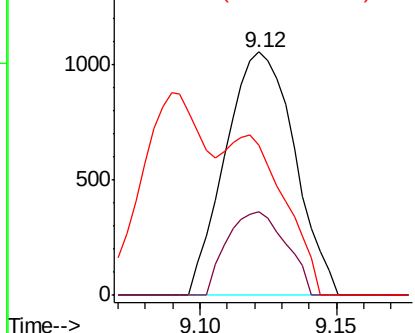
#51  
Chlorobenzene  
Concen: 0.634 ug/L  
RT: 9.12 min Scan# 2472  
Delta R.T. -0.00 min  
Lab File: VU026766.D  
Acq: 14 Sep 2018 15:13

Instrument :  
MSVOA\_U  
ClientSampled :  
C0SZ3

Tot Ion:112 Resp: 1847  
Ion Ratio Lower Upper  
112 100  
114 34.2 22.9 42.5  
77 61.7 47.2 70.8

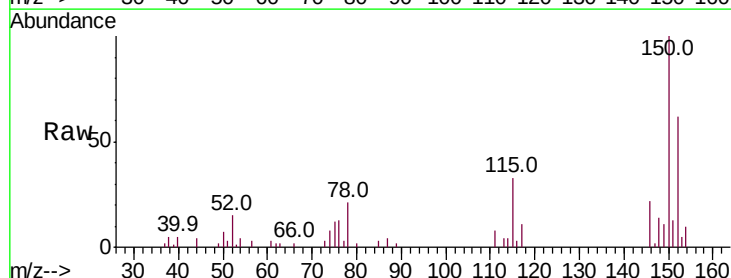


Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V

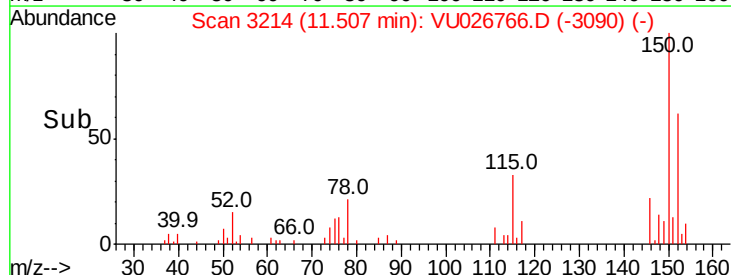
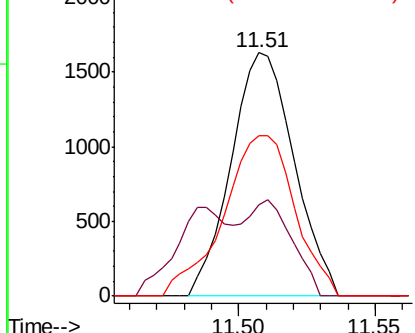


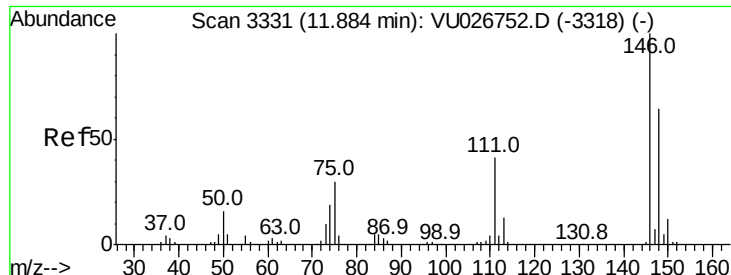
#63  
1,4-Dichlorobenzene  
Concen: 1.348 ug/L  
RT: 11.51 min Scan# 3214  
Delta R.T. -0.00 min  
Lab File: VU026766.D  
Acq: 14 Sep 2018 15:13

Tgt Ion:146 Resp: 2610  
Ion Ratio Lower Upper  
146 100  
111 37.2 26.5 49.3  
148 66.0 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 1.030 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU026766.D

Acq: 14 Sep 2018 15:13

Instrument :

MSVOA\_U

ClientSampleId :

C0SZ3

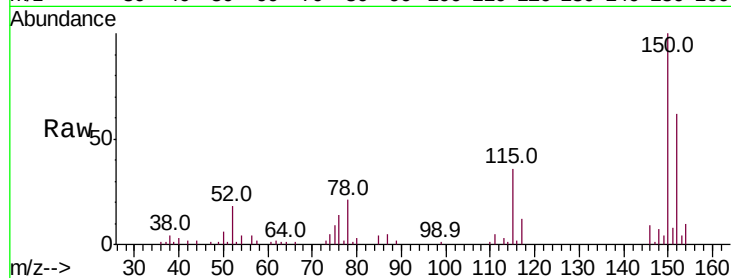
Tot Ion:146 Resp: 1990

Ion Ratio Lower Upper

146 100

111 51.1 32.8 49.2#

148 80.4 52.2 78.4#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

