

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091818\  
 Data File : VU026873.D  
 Acq On : 18 Sep 2018 19:30  
 Operator : MD/SY  
 Sample : J4896-12DL 10X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08M5DL

Quant Time: Sep 19 07:46:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 19 07:38:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 226888   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 214053   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 91138    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 57006    | 33.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 67.92%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 56928    | 39.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 79.26%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 86710    | 27.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 54.60%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 124563   | 111.84   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.84% |
| 24) Chloroform-d               | 4.65    | 84    | 133796   | 42.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.96%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 89102    | 45.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.90%  |
| 32) Benzene-d6                 | 5.34    | 84    | 255603   | 42.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.22%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 89282    | 46.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.38%  |
| 41) Toluene-d8                 | 7.57    | 98    | 209475   | 38.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 77.30%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 36449    | 42.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.48%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 84250    | 110.91   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 110.91% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 131433   | 48.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.54%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 91485    | 48.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.50%  |

## Target Compounds

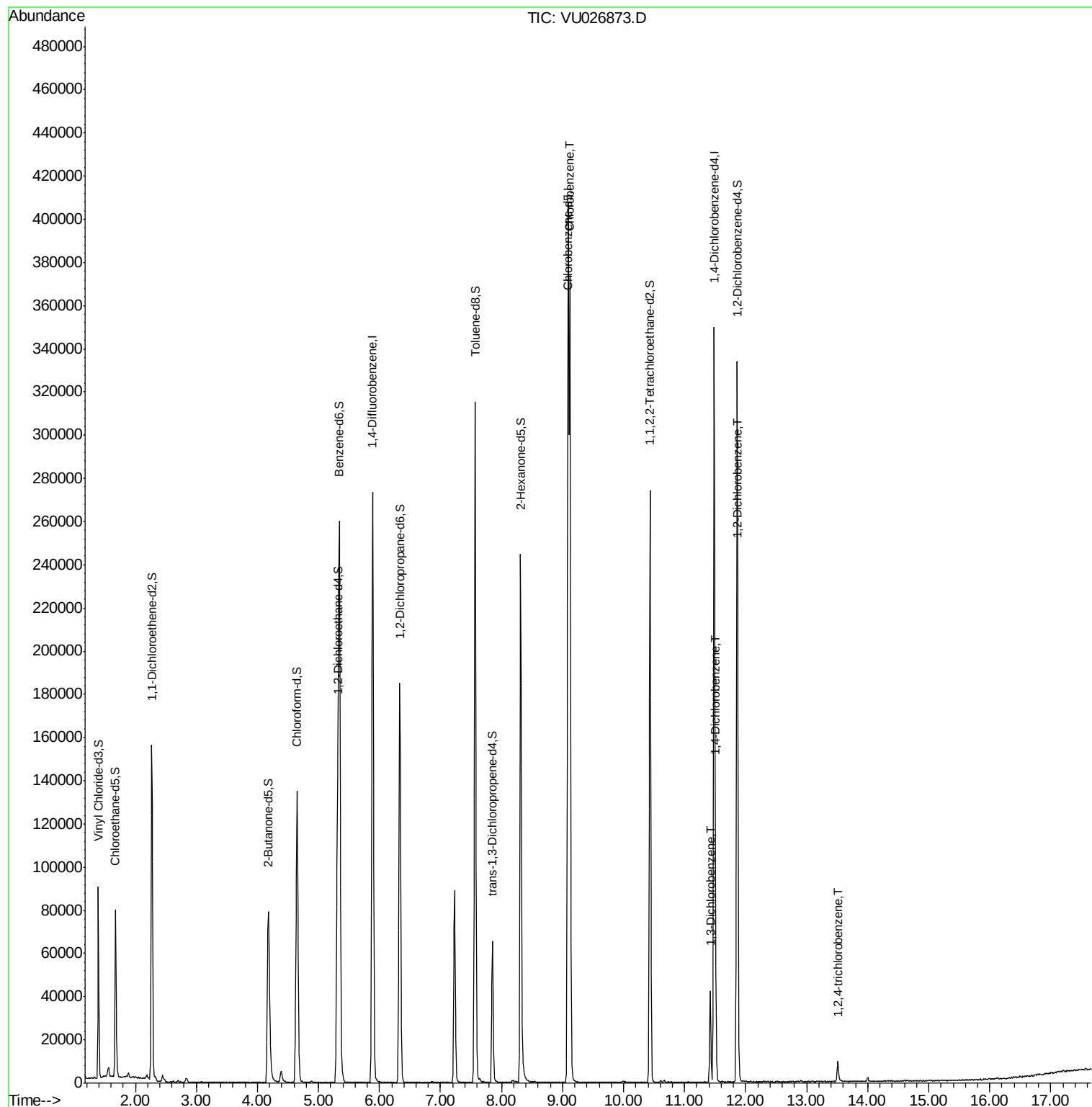
|                            |       |     |        |              | Ovalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 51) Chlorobenzene          | 9.12  | 112 | 195951 | 43.000 ug/L  | 99     |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146 | 18625  | 6.704 ug/L   | 96     |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146 | 14891  | 4.867 ug/L   | 99     |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 3073   | 0.999 ug/L # | 90     |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180 | 4177   | 2.255 ug/L   | 100    |

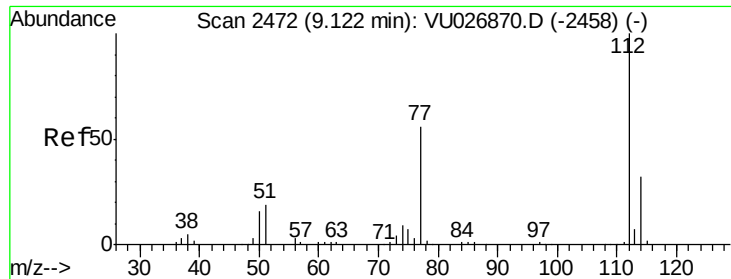
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#51

Chlorobenzene

Concen: 43.000 ug/L

RT: 9.12 min Scan# 2472

Delta R.T. -0.00 min

Lab File: VU026873.D

Acq: 18 Sep 2018 19:30

Instrument :

MSVOA\_U

ClientSampleId :

C08M5DL

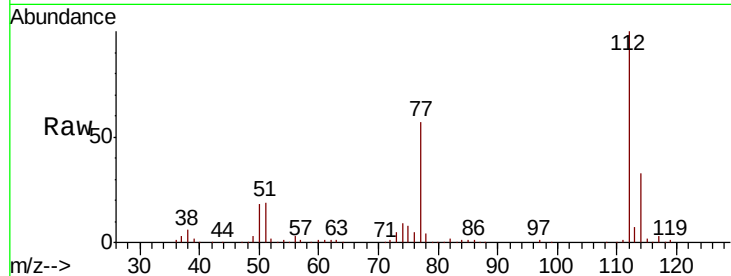
Tot Ion:112 Resp: 195951

Ion Ratio Lower Upper

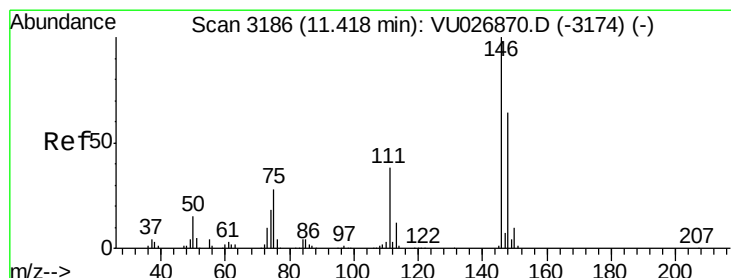
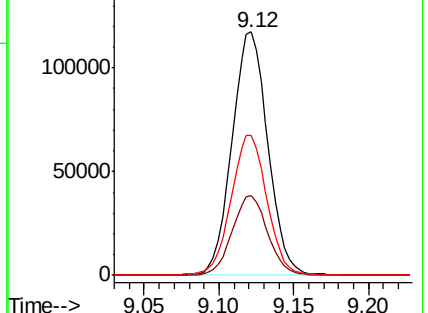
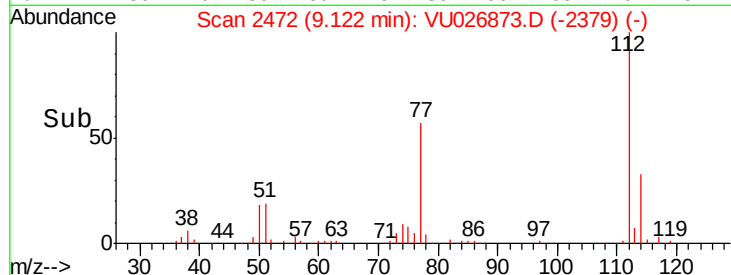
112 100

114 32.6 22.3 41.5

77 57.5 45.1 67.7



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



#62

1,3-Dichlorobenzene

Concen: 6.704 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU026873.D

Acq: 18 Sep 2018 19:30

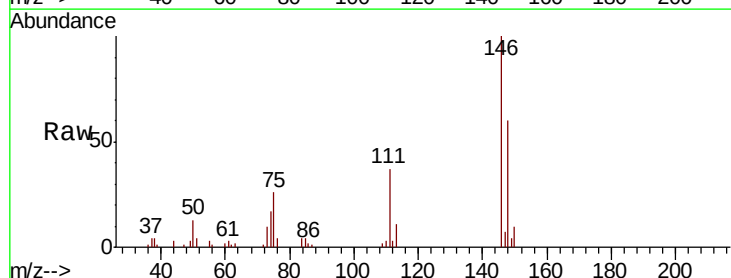
Tgt Ion:146 Resp: 18625

Ion Ratio Lower Upper

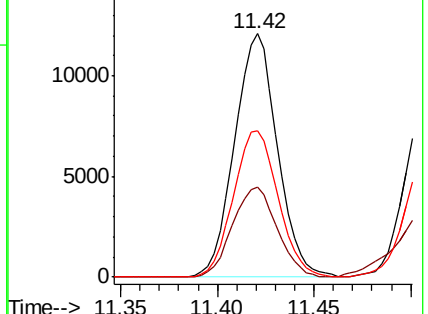
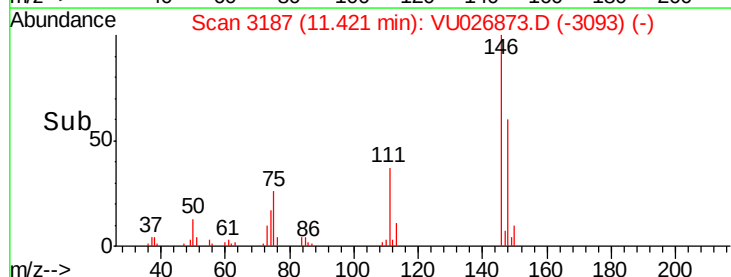
146 100

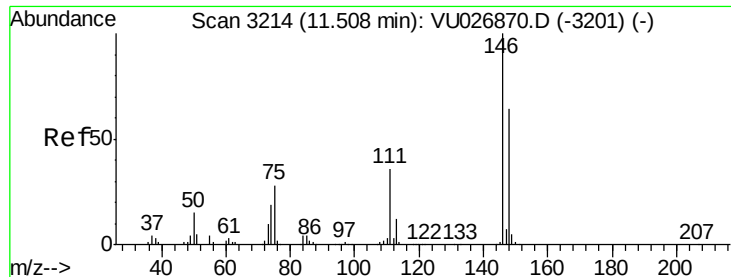
111 36.8 26.7 49.7

148 60.2 44.9 83.5



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

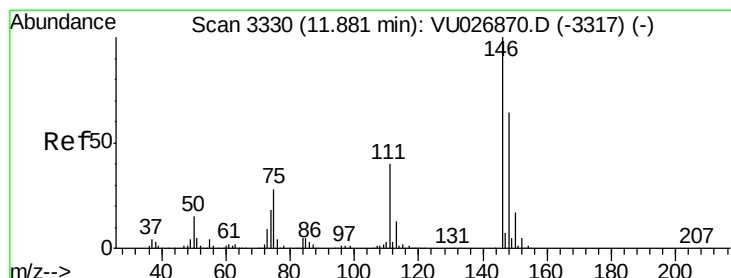
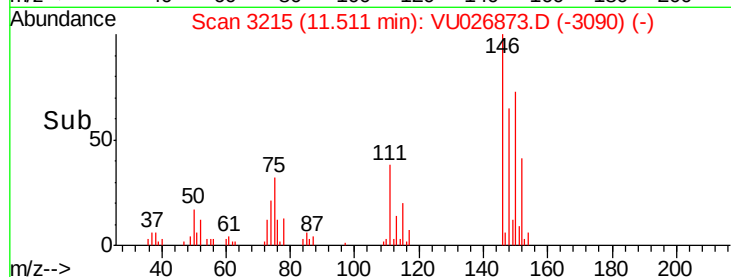
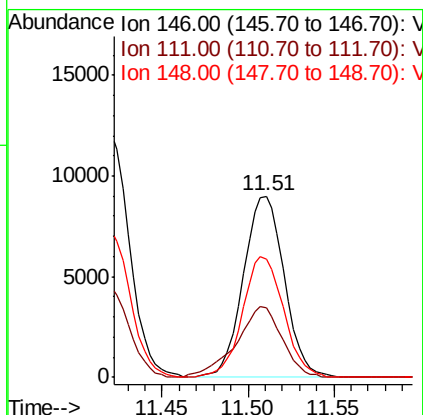
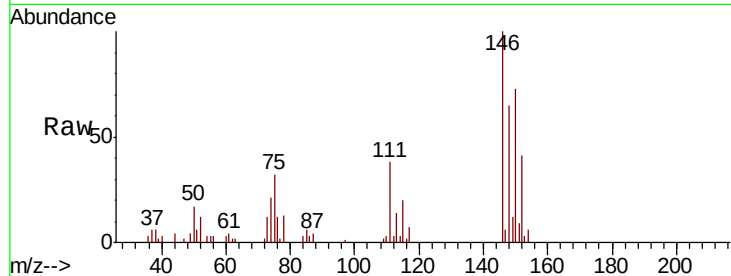




#63  
 1,4-Dichlorobenzene  
 Concen: 4.867 ug/L  
 RT: 11.51 min Scan# 3215  
 Delta R.T. 0.00 min  
 Lab File: VU026873.D  
 Acq: 18 Sep 2018 19:30

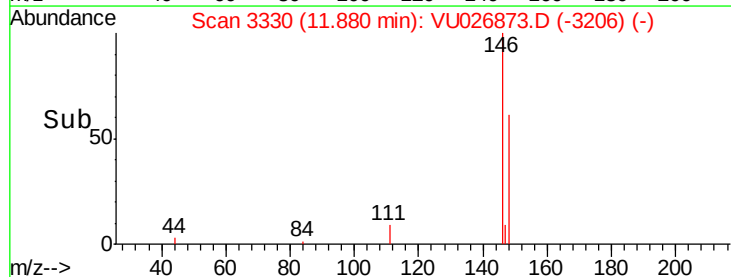
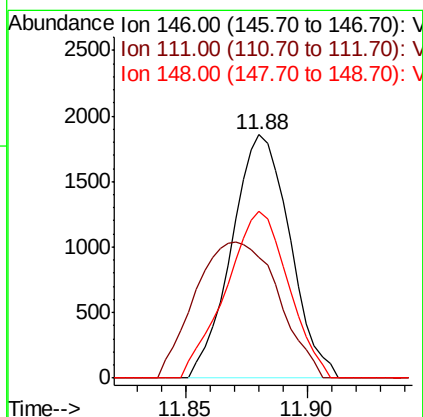
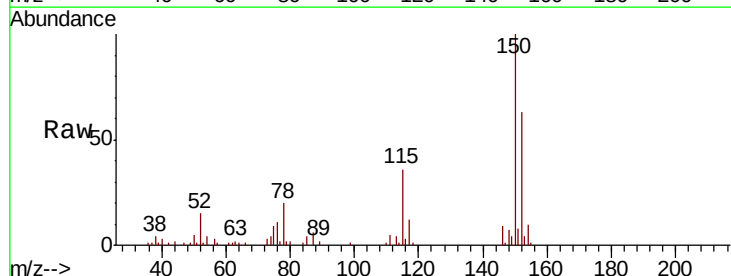
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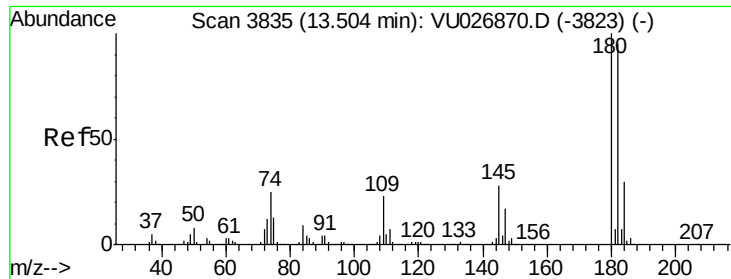
Tot Ion:146 Resp: 14891  
 Ion Ratio Lower Upper  
 146 100  
 111 38.2 26.0 48.2  
 148 65.2 45.8 85.2



#65  
 1,2-Dichlorobenzene  
 Concen: 0.999 ug/L  
 RT: 11.88 min Scan# 3330  
 Delta R.T. -0.00 min  
 Lab File: VU026873.D  
 Acq: 18 Sep 2018 19:30

Tgt Ion:146 Resp: 3073  
 Ion Ratio Lower Upper  
 146 100  
 111 49.8 31.4 47.0#  
 148 68.7 51.4 77.2

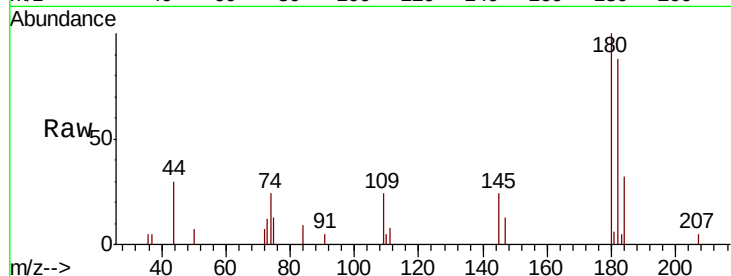




#68  
 1,2,4-trichlorobenzene  
 Concen: 2.255 ug/L  
 RT: 13.51 min Scan# 3838  
 Delta R.T. 0.01 min  
 Lab File: VU026873.D  
 Acq: 18 Sep 2018 19:30

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08M5DL

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 180     | 100  |       |       |       |
| 182     | 95.5 | 76.8  | 115.2 |       |
| 145     | 27.6 | 22.2  | 33.2  |       |



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

