

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU070618\  
 Data File : VU025234.D  
 Acq On : 06 Jul 2018 11:16  
 Operator : MD/SY  
 Sample : J3834-02 50X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BEAP1

Quant Time: Jul 06 23:15:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM062918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 06 23:15:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 342973   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 306916   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 141627   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 79986    | 39.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 78.02% |
| 7) Chloroethane-d5             | 1.68    | 69    | 69667    | 41.20    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 82.40% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 138628   | 31.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.00% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 160311   | 93.54    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 93.54% |
| 24) Chloroform-d               | 4.65    | 84    | 168899   | 38.46    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 76.92% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 133267   | 42.80    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.60% |
| 32) Benzene-d6                 | 5.34    | 84    | 356422   | 42.33    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 84.66% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 115970   | 43.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 86.48% |
| 41) Toluene-d8                 | 7.57    | 98    | 338877   | 41.13    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.26% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 55375    | 41.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.34% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 112244   | 91.69    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.69% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 159092   | 41.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 83.72% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 134226   | 43.50    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.00% |

## Target Compounds

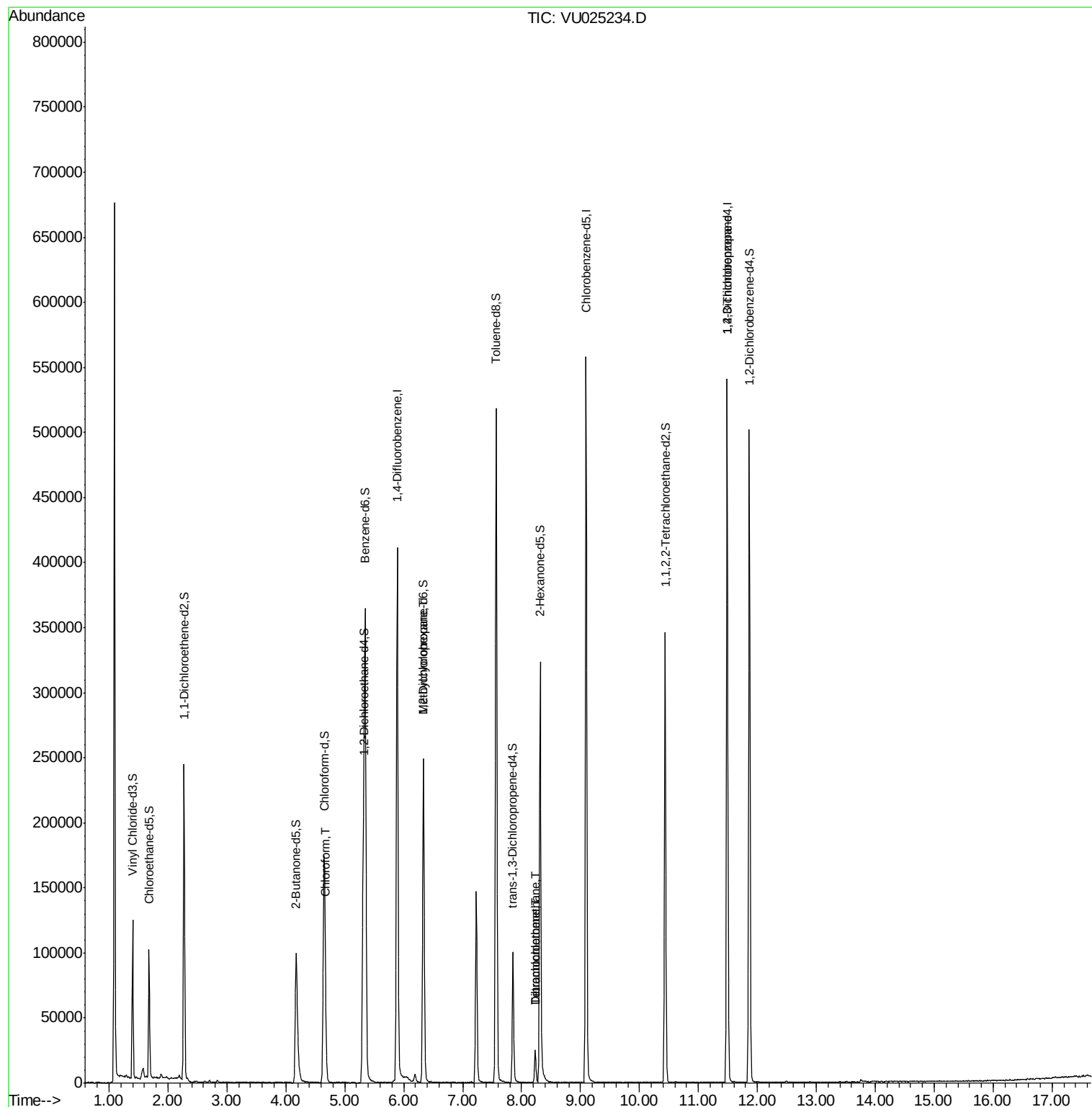
|                            |       |     |       |              | Qvalue |
|----------------------------|-------|-----|-------|--------------|--------|
| 25) Chloroform             | 4.68  | 83  | 15935 | 3.443 ug/L   | 99     |
| 35) Methylcyclohexane      | 6.33  | 83  | 27965 | 6.768 ug/L # | 19     |
| 46) Tetrachloroethene      | 8.23  | 164 | 5773  | 2.754 ug/L   | 95     |
| 49) Dibromochloromethane   | 8.23  | 129 | 5711  | 2.052 ug/L # | 10     |
| 59) 1,2,3-Trichloropropane | 11.49 | 75  | 15345 | 4.762 ug/L # | 83     |

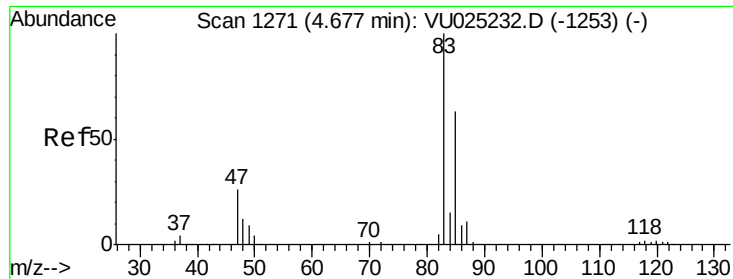
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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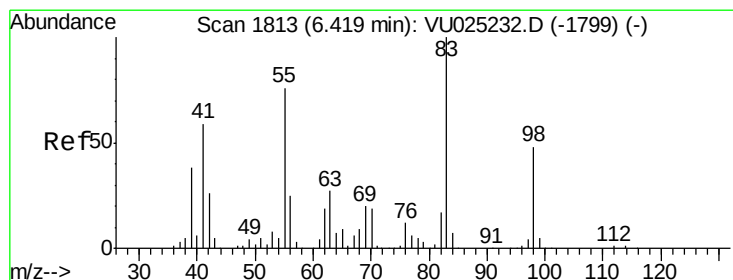
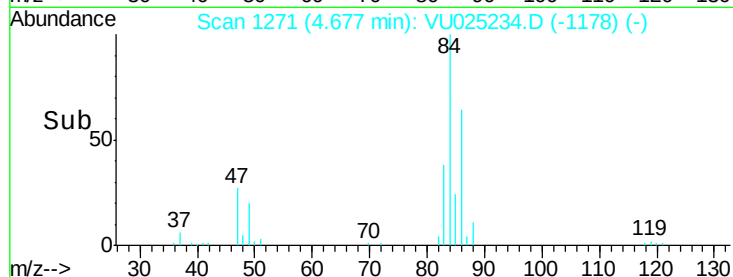
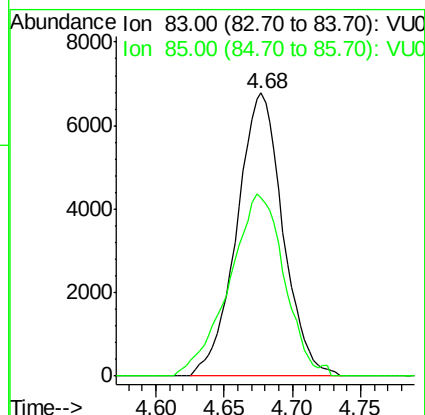
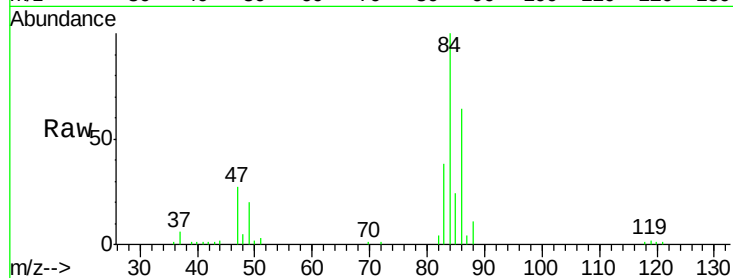




#25  
Chloroform  
Concen: 3.443 ug/L  
RT: 4.68 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VU025234.D  
Acq: 06 Jul 2018 11:16

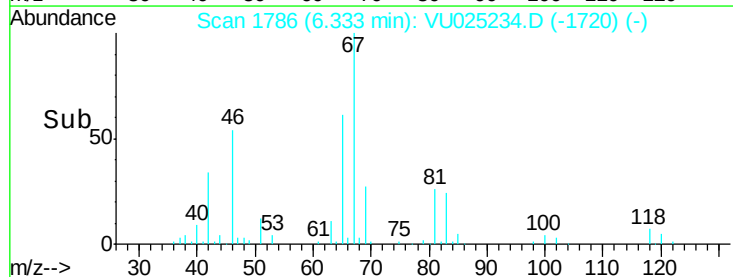
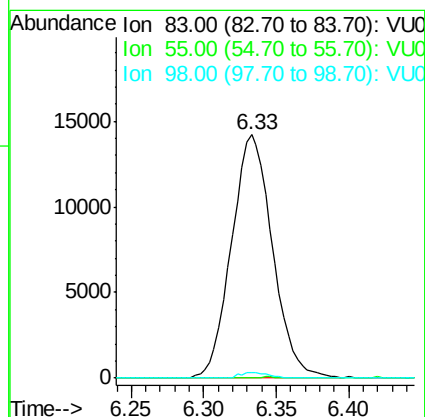
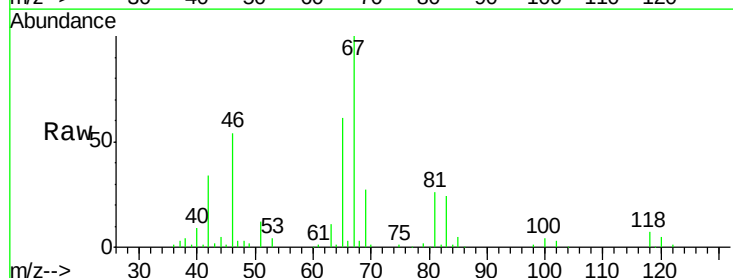
Instrument :  
MSVOA\_U  
ClientSampleId :  
BEAP1

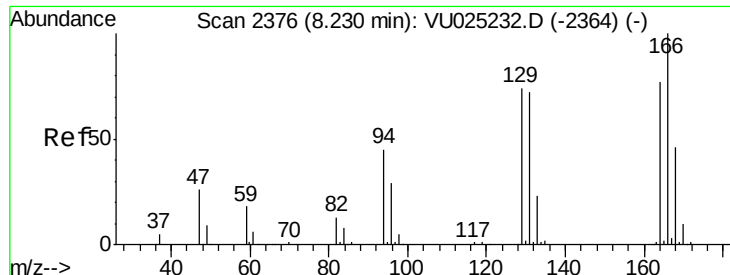
Tgt Ion: 83 Resp: 15935  
Ion Ratio Lower Upper  
83 100  
85 63.2 44.7 83.1



#35  
Methylcyclohexane  
Concen: 6.768 ug/L  
RT: 6.33 min Scan# 1786  
Delta R.T. -0.09 min  
Lab File: VU025234.D  
Acq: 06 Jul 2018 11:16

Tgt Ion: 83 Resp: 27965  
Ion Ratio Lower Upper  
83 100  
55 0.1 61.8 92.6#  
98 1.6 37.4 56.0#





#46

Tetrachloroethene

Concen: 2.754 ug/L

RT: 8.23 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VU025234.D

Acq: 06 Jul 2018 11:16

Instrument :

MSVOA\_U

ClientSampleId :

BEAP1

Tgt Ion:164 Resp: 5773

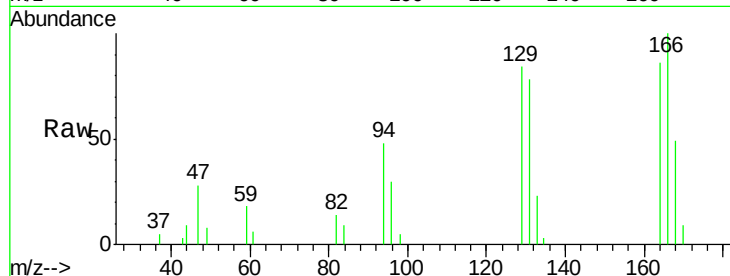
Ion Ratio Lower Upper

164 100

129 98.0 66.1 122.8

131 90.9 62.7 116.5

166 116.7 88.8 165.0

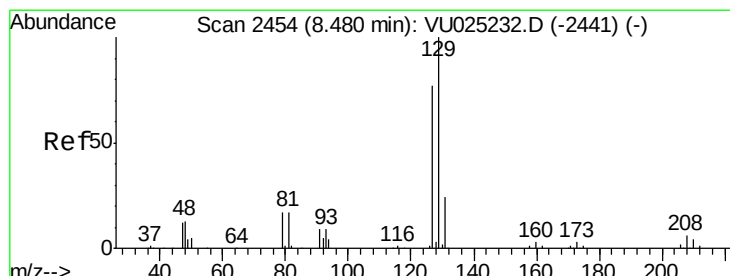
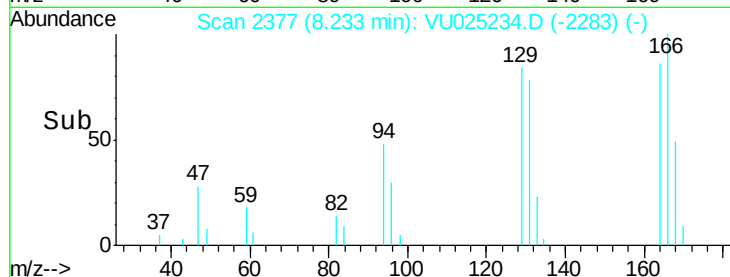
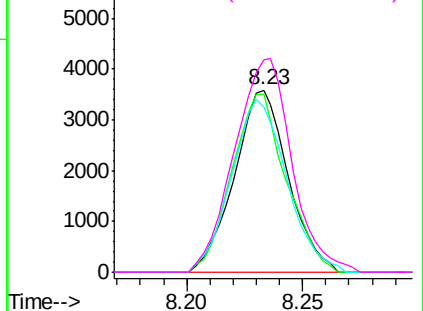


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

Dibromochloromethane

Concen: 2.052 ug/L

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU025234.D

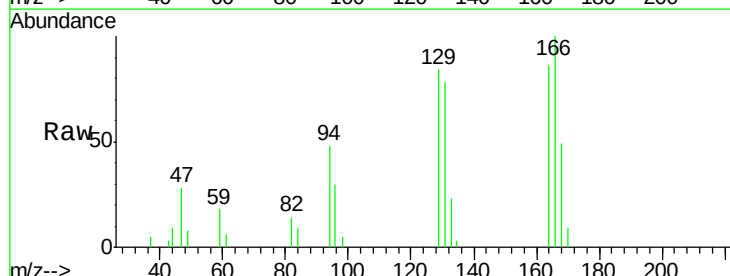
Acq: 06 Jul 2018 11:16

Tgt Ion:129 Resp: 5711

Ion Ratio Lower Upper

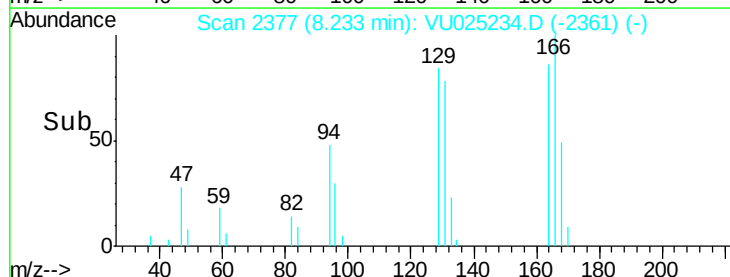
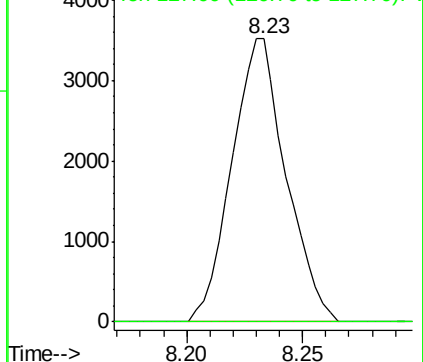
129 100

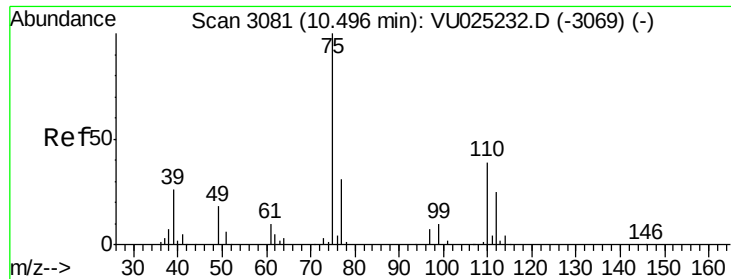
127 0.0 54.6 101.4#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#59

1,2,3-Trichloropropane

Concen: 4.762 ug/L

RT: 11.49 min Scan# 3389

Delta R.T. 0.99 min

Lab File: VU025234.D

Acq: 06 Jul 2018 11:16

Instrument :

MSVOA\_U

ClientSampleId :

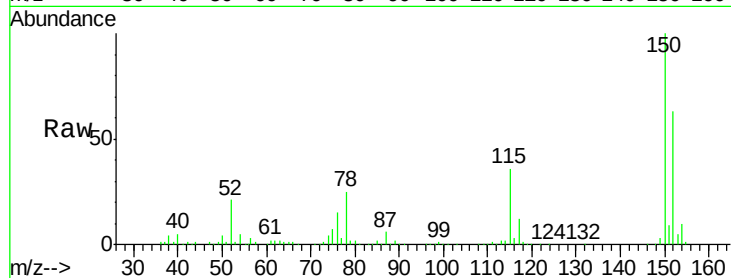
BEAP1

Tgt Ion: 75 Resp: 15345

Ion Ratio Lower Upper

75 100

77 42.3 26.2 39.4#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

