

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU071818\  
 Data File : VU025502.D  
 Acq On : 18 Jul 2018 17:11  
 Operator : MD/SY  
 Sample : J3984-17  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 19 01:09:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jul 19 01:07:14 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 316994   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 286214   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 136667   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 63619    | 42.56    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.12% |
| 7) Chloroethane-d5             | 1.68    | 69    | 57690    | 45.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.60% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 108840   | 33.16    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.32% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 145774   | 91.64    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.64% |
| 24) Chloroform-d               | 4.65    | 84    | 176155   | 45.43    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.86% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 121948   | 46.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.42% |
| 32) Benzene-d6                 | 5.35    | 84    | 331670   | 47.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.90% |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 113551   | 49.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.14% |
| 41) Toluene-d8                 | 7.57    | 98    | 308786   | 46.12    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.24% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 53845    | 45.16    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.32% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 103650   | 87.28    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.28% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 158401   | 46.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.16% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 131285   | 47.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.88% |

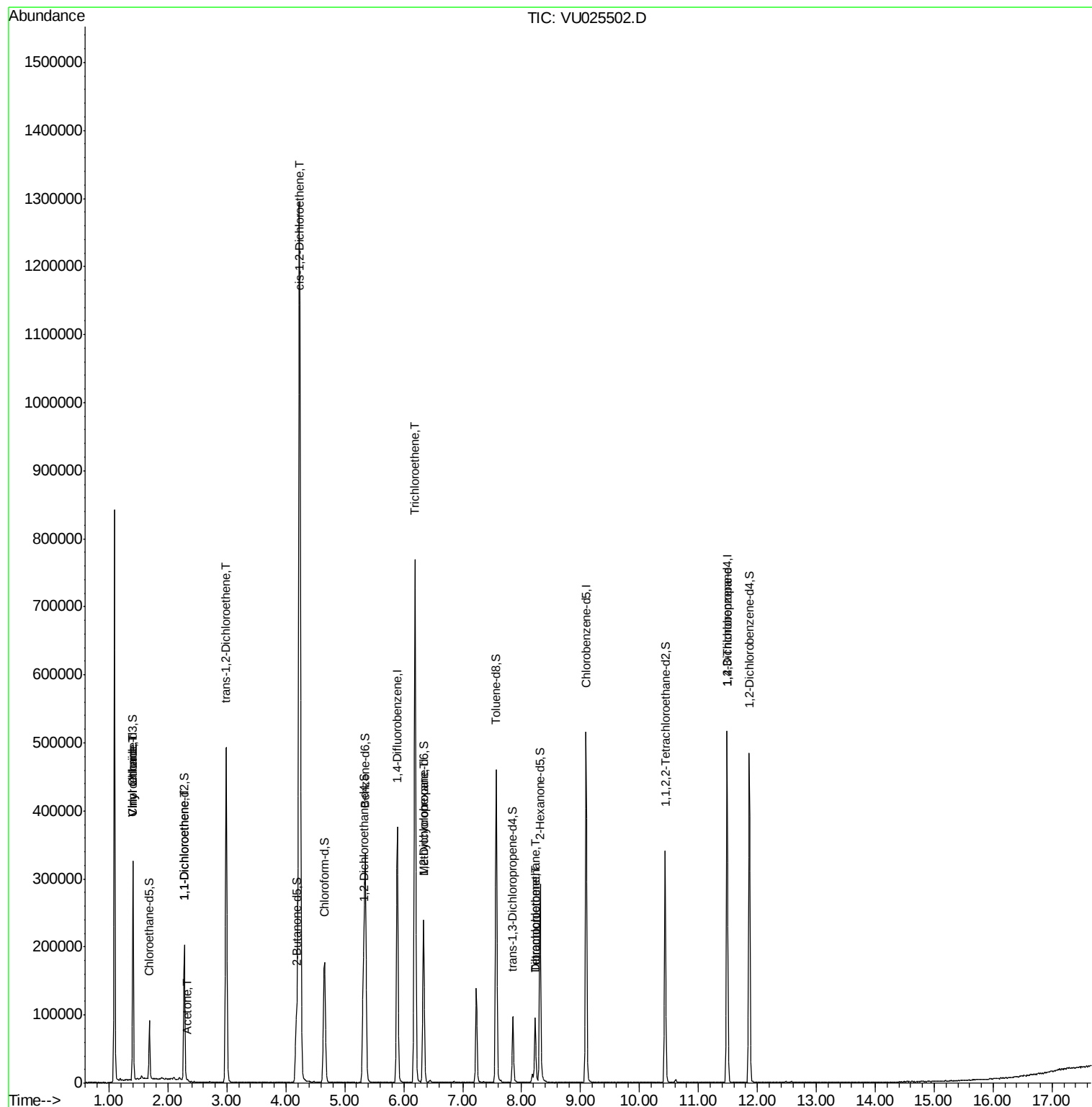
## Target Compounds

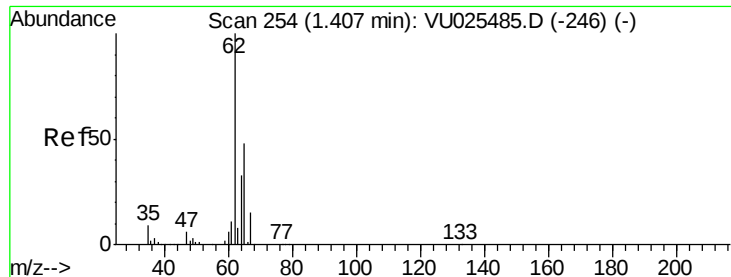
|                              |       |     |        |         | Qvalue    |
|------------------------------|-------|-----|--------|---------|-----------|
| 5) Vinyl chloride            | 1.41  | 62  | 150073 | 64.672  | ug/L 100  |
| 8) Chloroethane              | 1.41  | 64  | 49094  | 35.353  | ug/L # 47 |
| 12) 1,1-Dichloroethene       | 2.28  | 96  | 3487   | 2.030   | ug/L # 1  |
| 13) Acetone                  | 2.32  | 43  | 2220   | 1.598   | ug/L 89   |
| 17) trans-1,2-Dichloroethene | 2.99  | 96  | 189026 | 93.012  | ug/L 98   |
| 20) cis-1,2-Dichloroethene   | 4.23  | 96  | 727443 | 292.354 | ug/L 99   |
| 34) Trichloroethene          | 6.19  | 95  | 257084 | 114.694 | ug/L 98   |
| 35) Methylcyclohexane        | 6.33  | 83  | 27132  | 7.973   | ug/L # 19 |
| 46) Tetrachloroethene        | 8.23  | 164 | 21076  | 11.271  | ug/L 93   |
| 49) Dibromochloromethane     | 8.23  | 129 | 18760  | 6.998   | ug/L # 12 |
| 59) 1,2,3-Trichloropropane   | 11.49 | 75  | 15074  | 4.853   | ug/L # 85 |

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

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QLast Update : Thu Jul 19 01:07:14 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 64.672 ug/L

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU025502.D

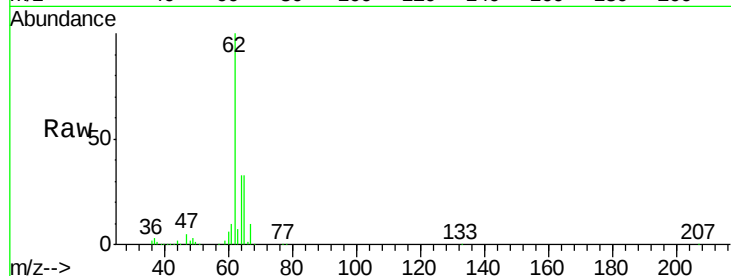
Acq: 18 Jul 2018 17:11

Tgt Ion: 62 Resp: 150073

Ion Ratio Lower Upper

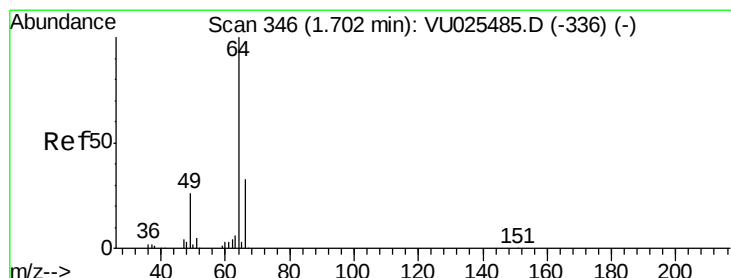
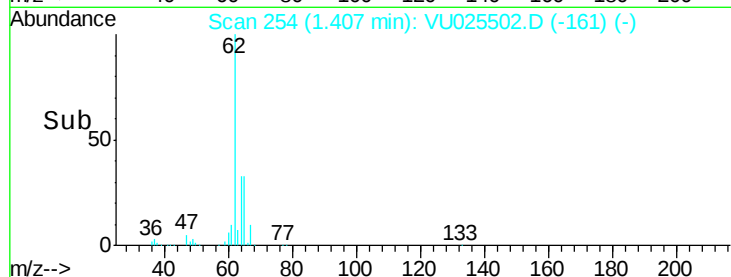
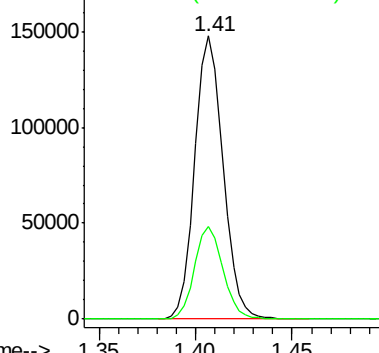
62 100

64 32.7 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#8

Chloroethane

Concen: 35.353 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.30 min

Lab File: VU025502.D

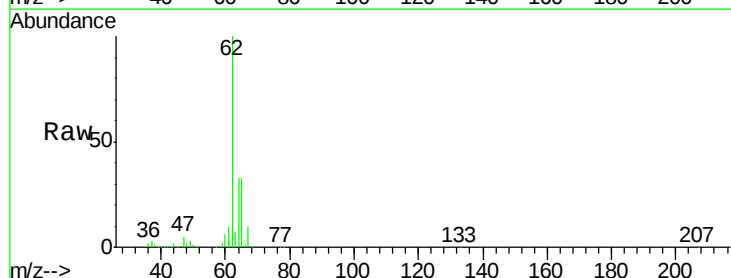
Acq: 18 Jul 2018 17:11

Tgt Ion: 64 Resp: 49094

Ion Ratio Lower Upper

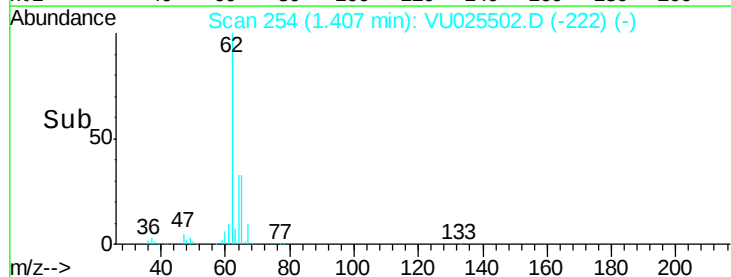
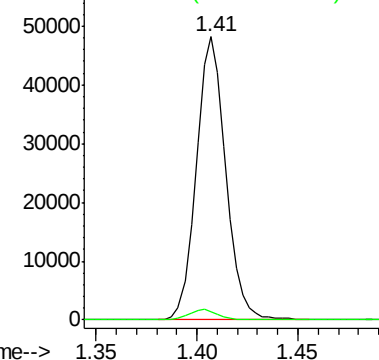
64 100

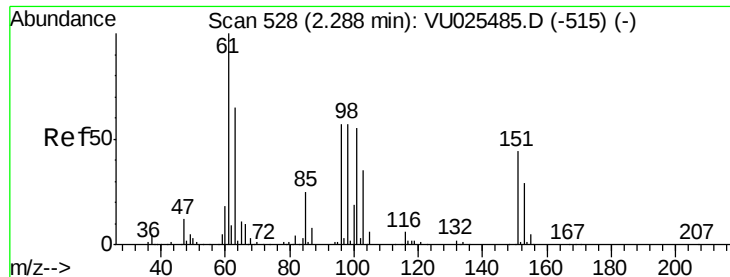
66 3.1 23.0 42.8#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#12

1,1-Dichloroethene

Concen: 2.030 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025502.D

Acq: 18 Jul 2018 17:11

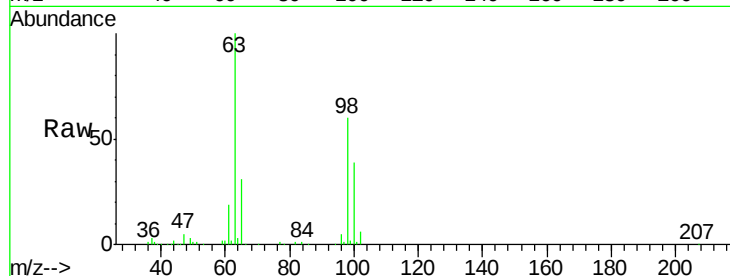
Tgt Ion: 96 Resp: 3487

Ion Ratio Lower Upper

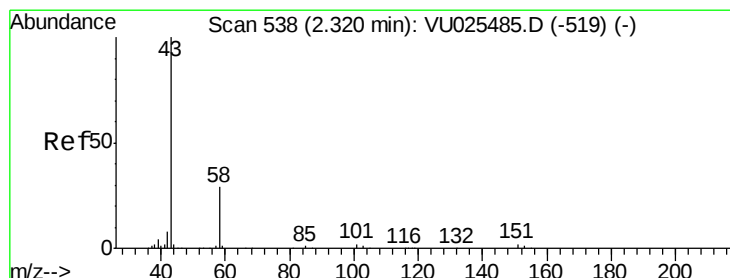
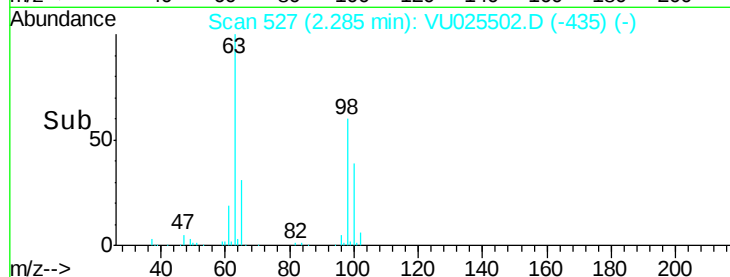
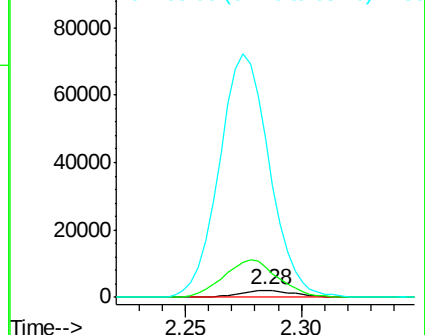
96 100

61 412.8 120.6 224.0#

63 2135.3 79.3 147.3#



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 1.598 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025502.D

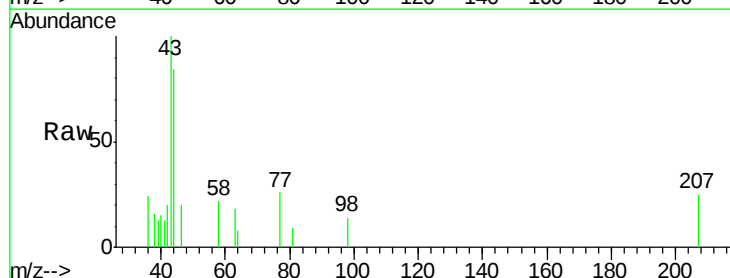
Acq: 18 Jul 2018 17:11

Tgt Ion: 43 Resp: 2220

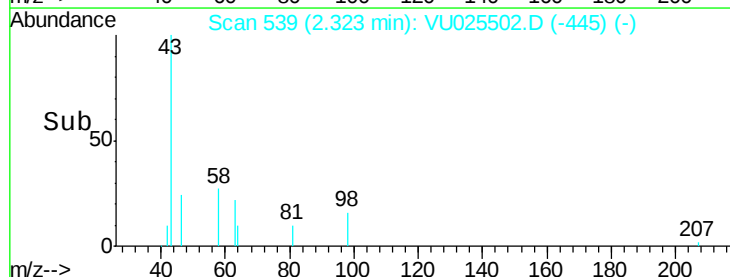
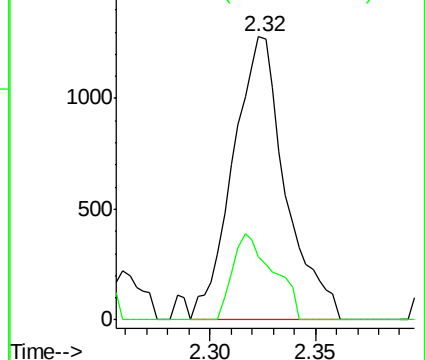
Ion Ratio Lower Upper

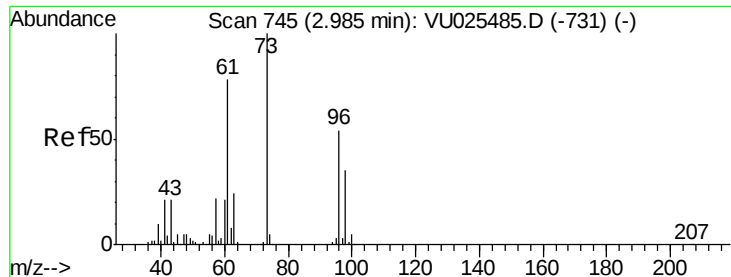
43 100

58 23.4 0.0 59.0



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 93.012 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025502.D

Acq: 18 Jul 2018 17:11

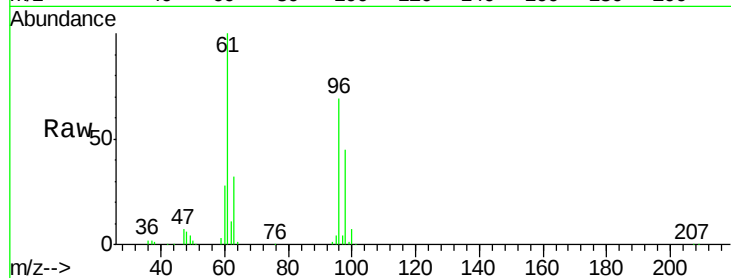
Tgt Ion: 96 Resp: 189026

Ion Ratio Lower Upper

96 100

61 144.5 103.6 192.4

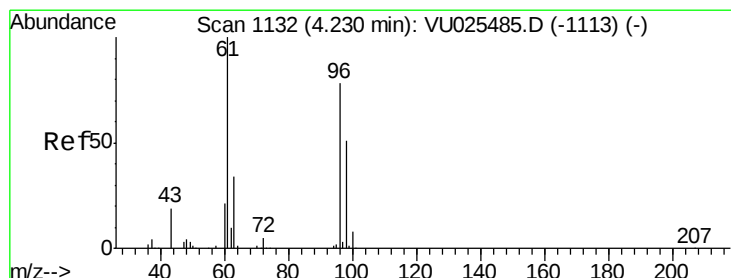
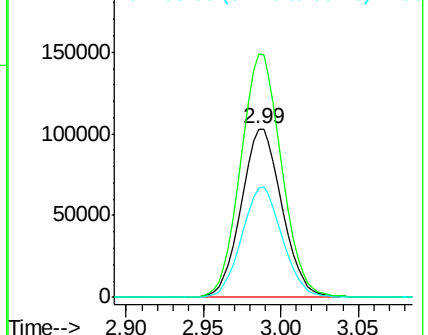
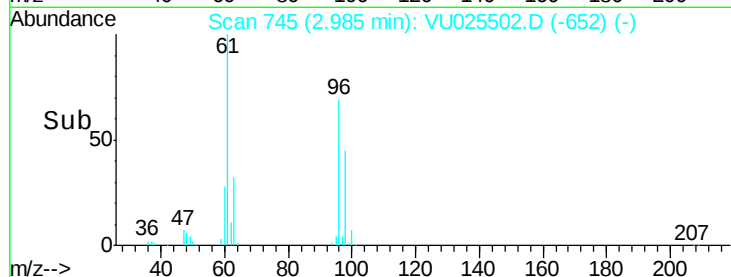
98 64.7 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 292.354 ug/L

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU025502.D

Acq: 18 Jul 2018 17:11

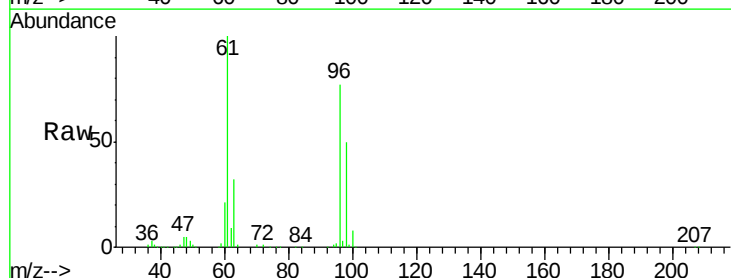
Tgt Ion: 96 Resp: 727443

Ion Ratio Lower Upper

96 100

61 129.3 91.7 170.3

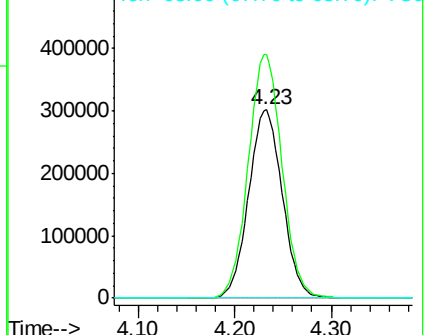
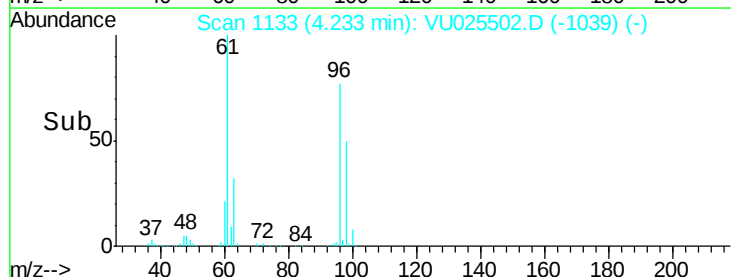
68 0.0 0.0 0.0

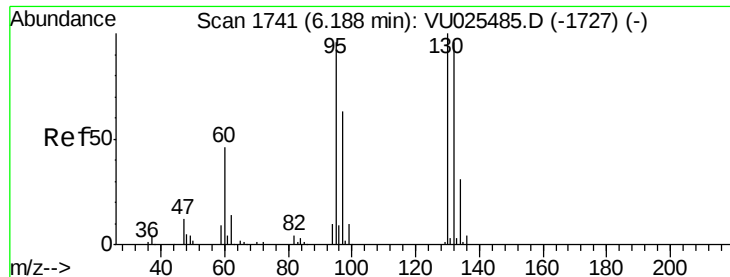


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#34

Trichloroethene

Concen: 114.694 ug/L

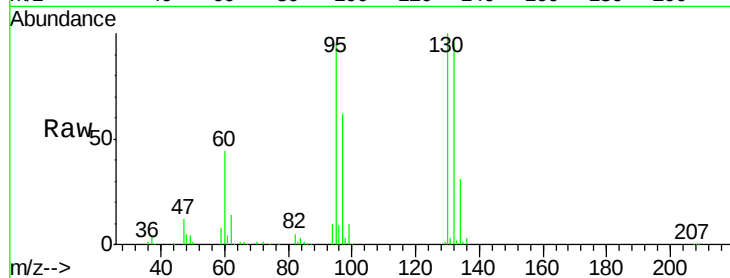
RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025502.D

Acq: 18 Jul 2018 17:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 257084 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 65.2  | 45.9  | 85.3   |
| 132      | 100.4 | 68.2  | 126.6  |
| 130      | 104.8 | 71.8  | 133.4  |

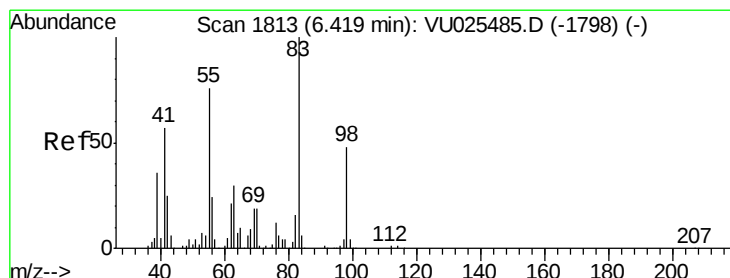
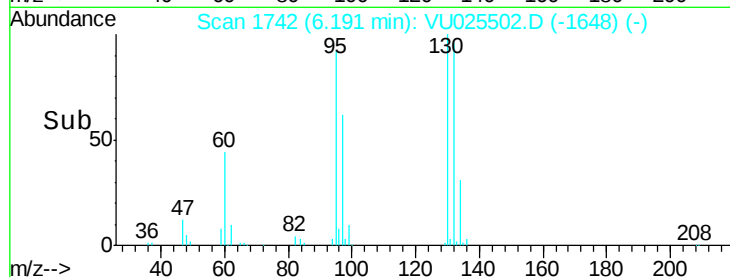
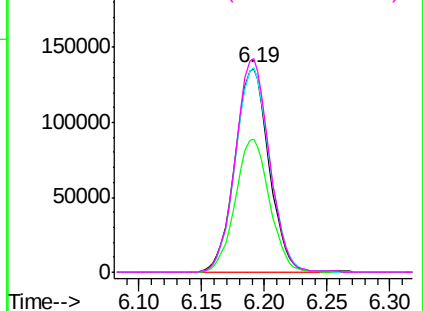


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 7.973 ug/L

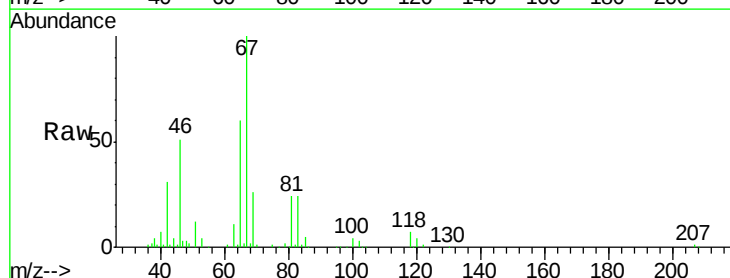
RT: 6.33 min Scan# 1786

Delta R.T. -0.09 min

Lab File: VU025502.D

Acq: 18 Jul 2018 17:11

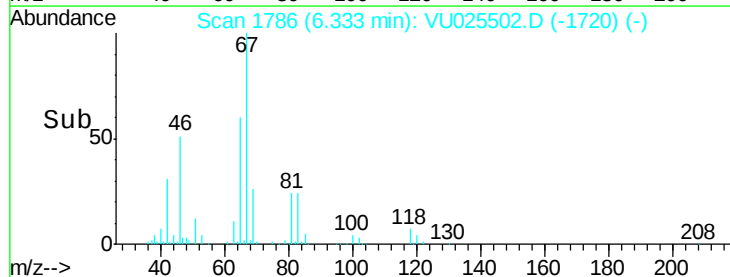
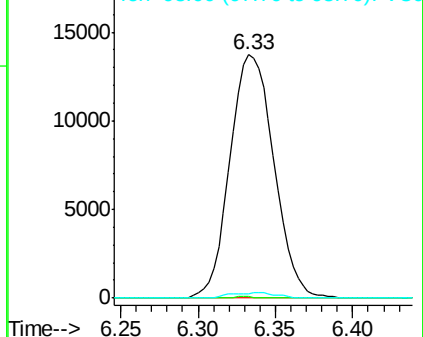
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 27132 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 0.2   | 61.8  | 92.8# |
| 98       | 1.4   | 38.7  | 58.1# |

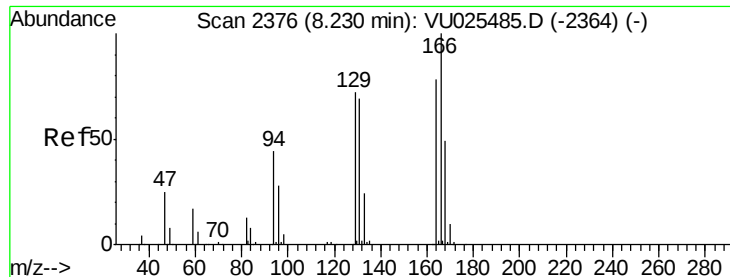


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#46

Tetrachloroethene

Concen: 11.271 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU025502.D

Acq: 18 Jul 2018 17:11

Tgt Ion:164 Resp: 21076

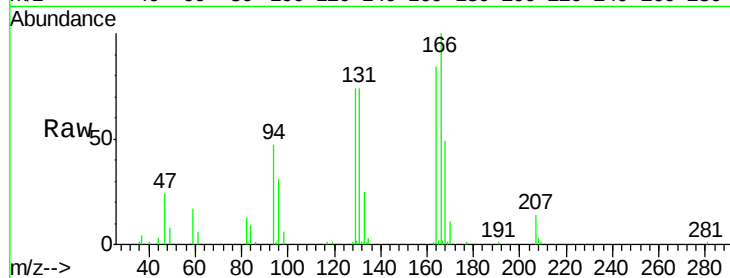
Ion Ratio Lower Upper

164 100

129 87.7 66.5 123.5

131 88.2 63.7 118.3

166 119.2 90.8 168.6

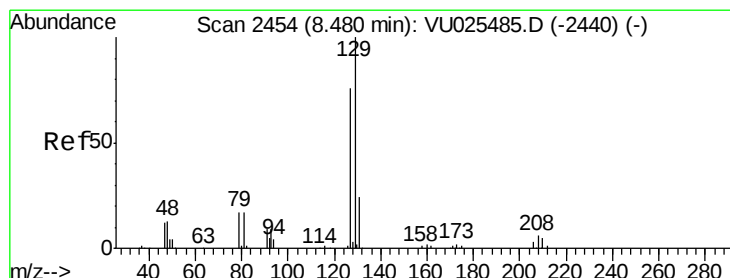
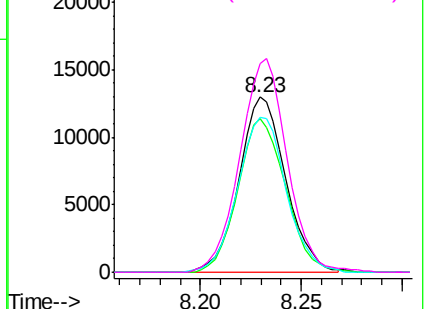
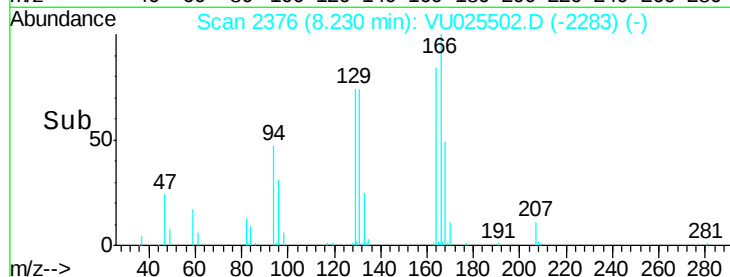


Abundance Ion 164.00 (163.70 to 164.70): V

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: 6.998 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.25 min

Lab File: VU025502.D

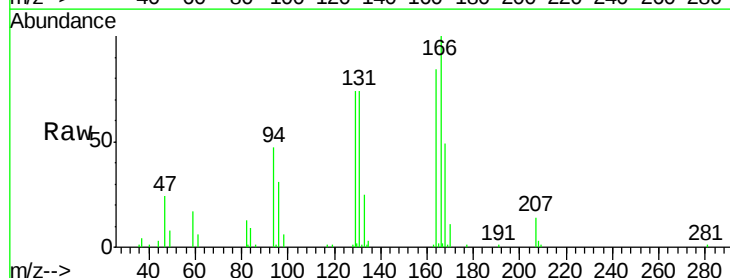
Acq: 18 Jul 2018 17:11

Tgt Ion:129 Resp: 18760

Ion Ratio Lower Upper

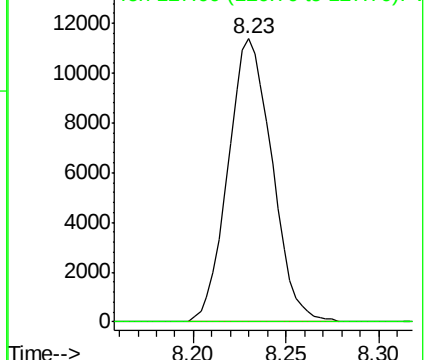
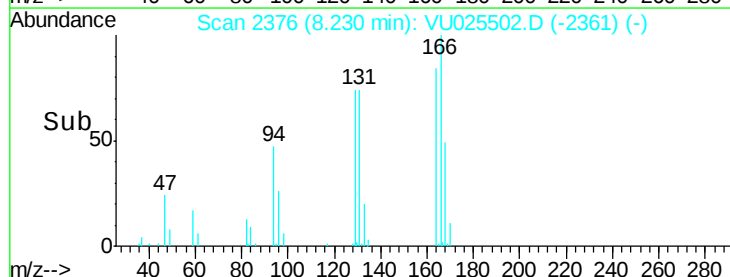
129 100

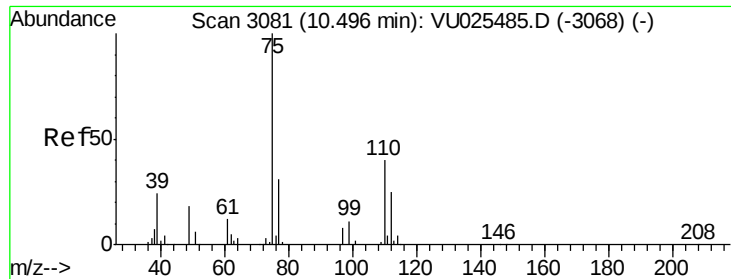
127 0.0 52.4 97.2#



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: 4.853 ug/L

RT: 11.49 min Scan# 3389

Delta R.T. 0.99 min

Lab File: VU025502.D

Acq: 18 Jul 2018 17:11

Tgt Ion: 75 Resp: 15074

Ion Ratio Lower Upper

75 100

77 41.1 26.2 39.2#

