

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU050418\  
 Data File : VU023632.D  
 Acq On : 04 May 2018 05:24  
 Operator : MD/SY  
 Sample : J2560-21  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 04 05:50:24 2018  
 Quant Method : W:\HPCHEM1\MSVOA U\METHOD\SOMUTR050418WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri May 04 04:44:45 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 92566    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 80999    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 31440    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 38919    | 5.80     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 116.00%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 33583    | 6.73     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 134.60%# |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 40608    | 3.39     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.80%   |
| 20) 2-Butanone-d5              | 4.20   | 46    | 165336   | 85.12    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 170.24%# |
| 24) Chloroform-d               | 4.65   | 84    | 79788    | 6.63     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 132.60%# |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 48554    | 7.53     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 150.60%# |
| 32) Benzene-d6                 | 5.34   | 84    | 134238   | 6.25     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 125.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.34   | 67    | 54501    | 7.70     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 154.00%# |
| 41) Toluene-d8                 | 7.57   | 98    | 84437    | 4.23     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.60%   |
| 43) trans-1,3-Dichloropropene- | 7.86   | 79    | 12073    | 4.63     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.60%   |
| 46) 2-Hexanone-d5              | 8.32   | 63    | 112667   | 84.33    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 168.66%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44  | 84    | 48110    | 8.54     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 170.80%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.87  | 152   | 35341    | 6.04     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 120.80%# |

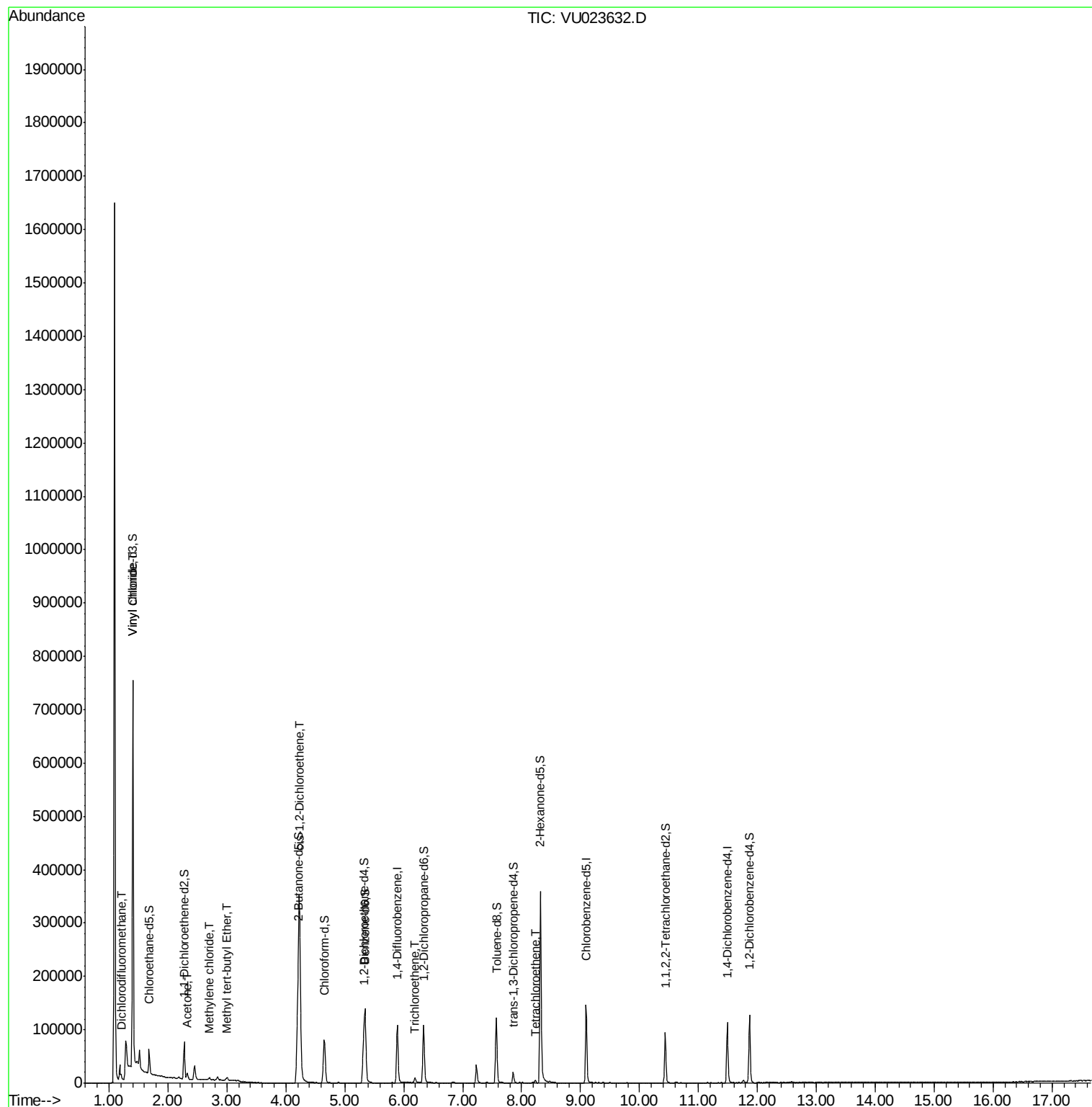
## Target Compounds

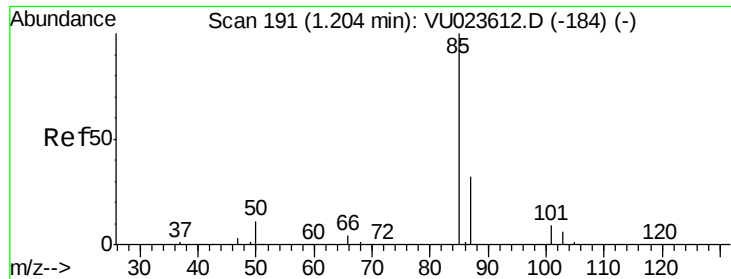
|                             |      |     |        |       |        | Ovalue |
|-----------------------------|------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane  | 1.20 | 85  | 2241   | 0.26  | ug/L   | 99     |
| 5) Vinyl chloride           | 1.40 | 62  | 431835 | 49.90 | ug/L   | 96     |
| 13) Acetone                 | 2.32 | 43  | 13245  | 11.93 | ug/L   | 100    |
| 16) Methylene chloride      | 2.70 | 84  | 1560   | 0.25  | ug/L   | 95     |
| 17) Methyl tert-butyl Ether | 3.00 | 73  | 4028   | 0.29  | ug/L # | 87     |
| 22) cis-1,2-Dichloroethene  | 4.23 | 96  | 172372 | 24.08 | ug/L   | 99     |
| 34) Trichloroethene         | 6.19 | 95  | 3257   | 0.51  | ug/L   | 94     |
| 47) Tetrachloroethene       | 8.23 | 164 | 1253   | 0.25  | ug/L   | 92     |

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

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.26 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU023632.D

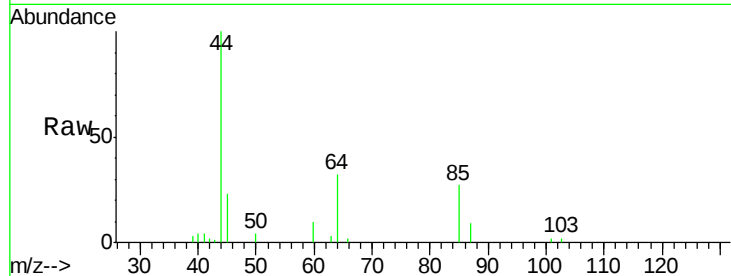
Acq: 04 May 2018 05:24

Tot Ion: 85 Resp: 2241

Ion Ratio Lower Upper

85 100

87 32.0 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

2500

2000

1500

1000

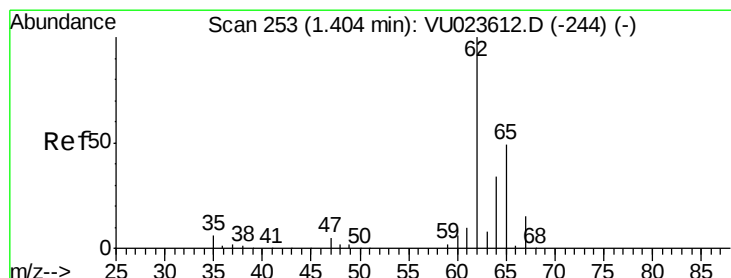
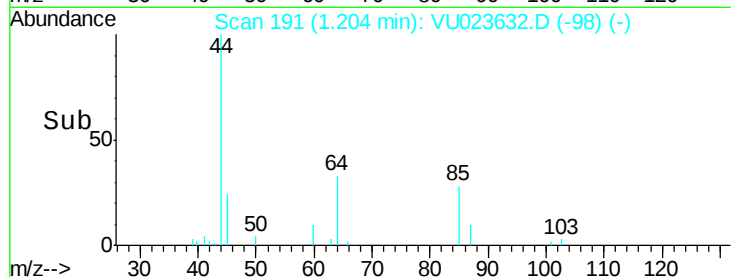
500

0

1.20

1.25

Time-->



#5

Vinyl chloride

Concen: 49.90 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU023632.D

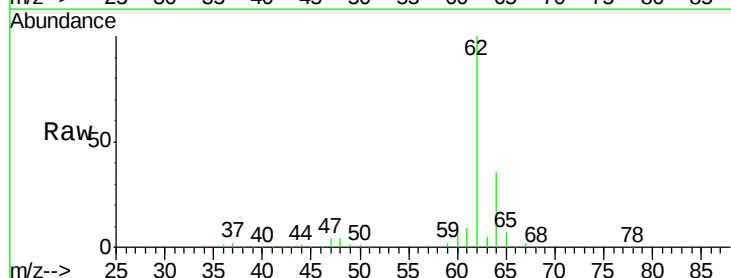
Acq: 04 May 2018 05:24

Tgt Ion: 62 Resp: 431835

Ion Ratio Lower Upper

62 100

64 36.0 26.9 49.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

500000

400000

300000

200000

100000

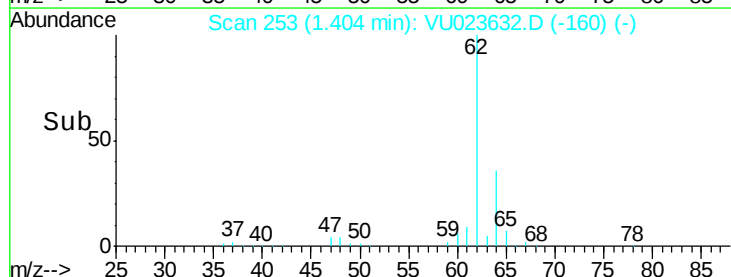
0

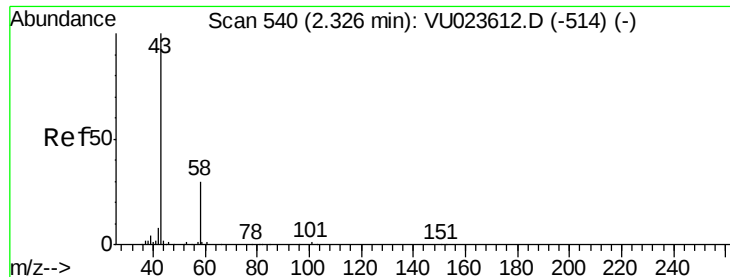
1.40

1.45

1.50

Time-->





#13

Acetone

Concen: 11.93 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU023632.D

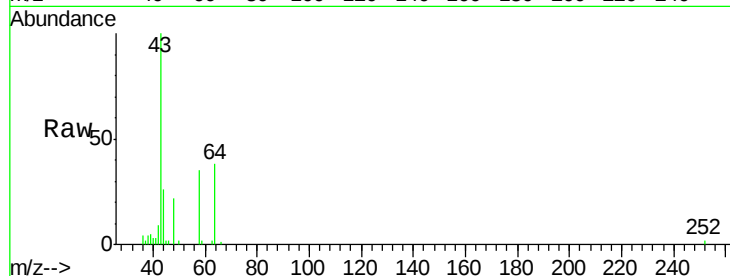
Acq: 04 May 2018 05:24

Tot Ion: 43 Resp: 13245

Ion Ratio Lower Upper

43 100 0.0 63.8

58 31.7 0.0 63.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.32

6000

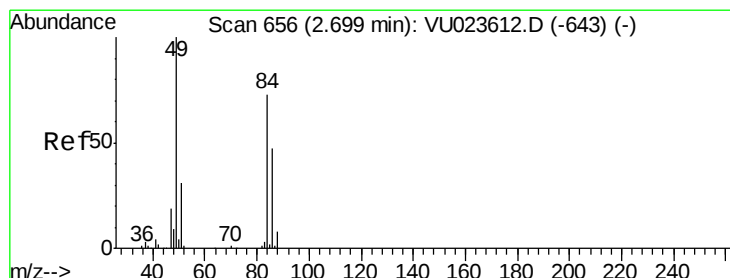
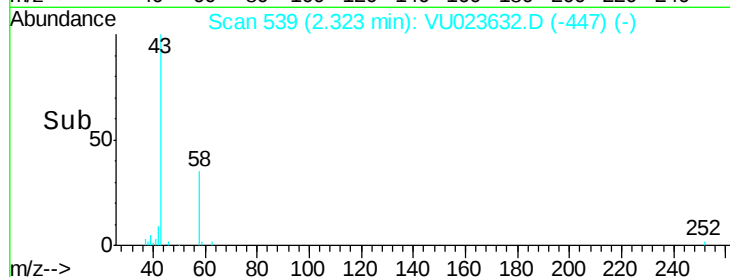
4000

2000

0

Time-->

2.25 2.30 2.35 2.40



#16

Methylene chloride

Concen: 0.25 ug/L

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU023632.D

Acq: 04 May 2018 05:24

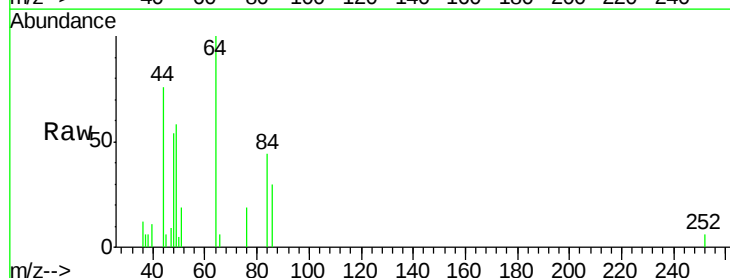
Tgt Ion: 84 Resp: 1560

Ion Ratio Lower Upper

84 100 46.0 85.4

86 67.4 46.0 85.4

49 145.4 96.0 178.4



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

1500

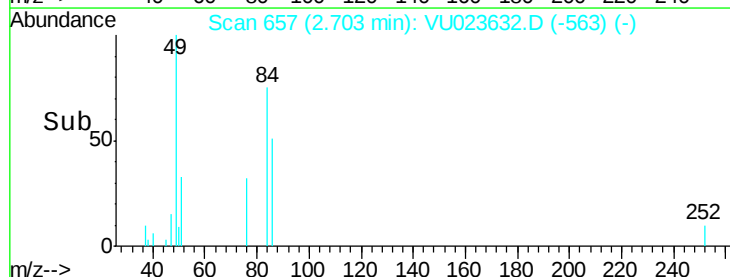
1000

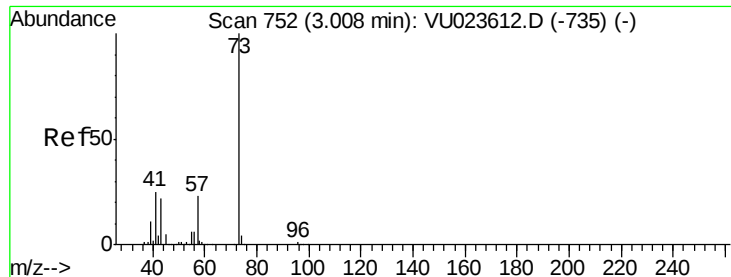
500

0

Time-->

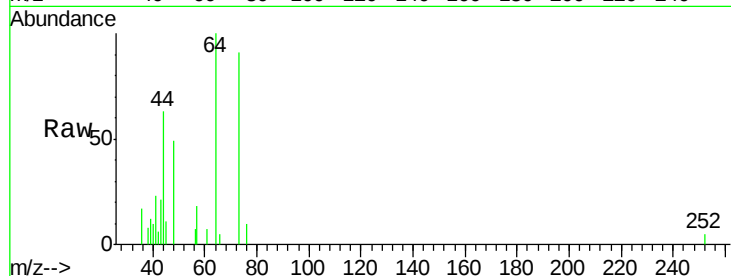
2.65 2.70 2.75



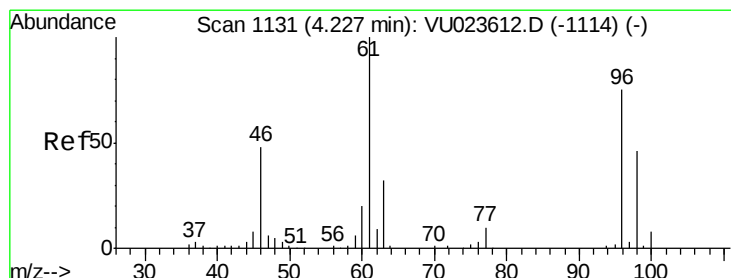
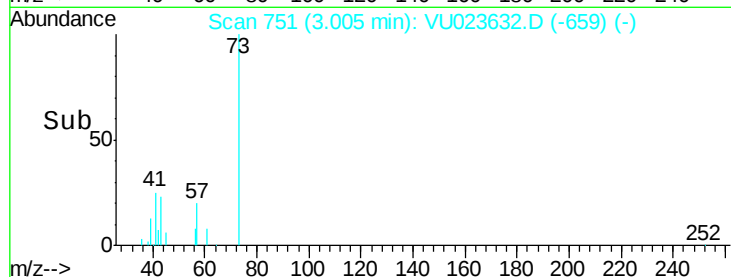
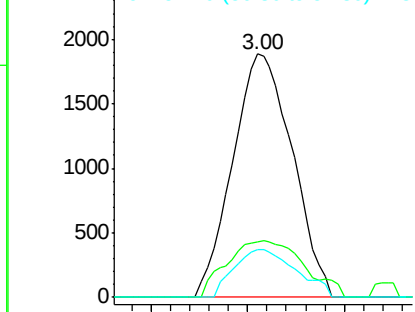


#17  
Methvl tert-butvl Ether  
Concen: 0.29 ug/L  
RT: 3.00 min Scan# 751  
Delta R.T. -0.00 min  
Lab File: VU023632.D  
Acq: 04 May 2018 05:24

Tot Ion: 73 Resp: 4028  
Ion Ratio Lower Upper  
73 100  
43 29.9 16.6 25.0#  
57 20.4 19.4 29.0

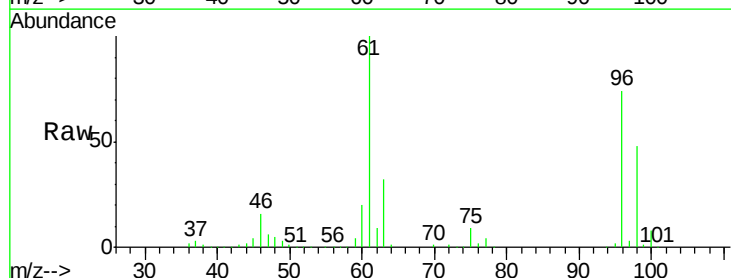


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

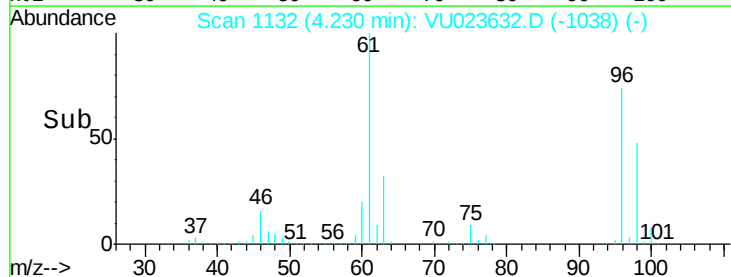
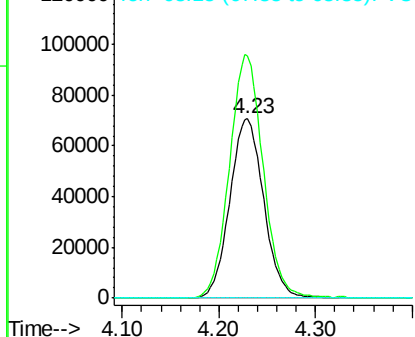


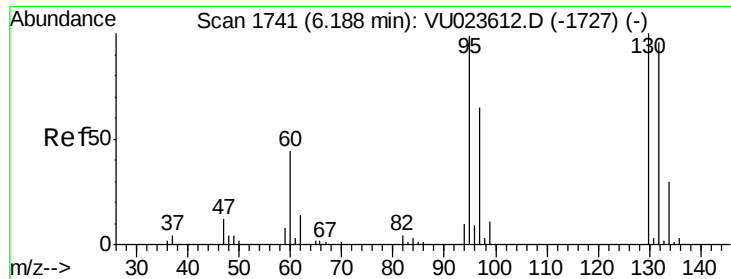
#22  
cis-1,2-Dichloroethene  
Concen: 24.08 ug/L  
RT: 4.23 min Scan# 1132  
Delta R.T. 0.00 min  
Lab File: VU023632.D  
Acq: 04 May 2018 05:24

Tgt Ion: 96 Resp: 172372  
Ion Ratio Lower Upper  
96 100  
61 135.7 94.6 175.6  
68 0.0 0.0 0.0



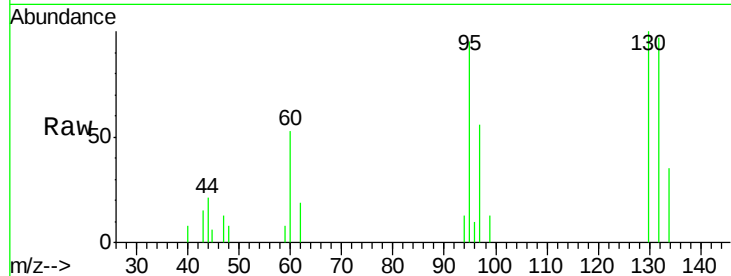
Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 68.15 (67.85 to 68.85): VU0





#34  
 Trichloroethene  
 Concen: 0.51 ug/L  
 RT: 6.19 min Scan# 1742  
 Delta R.T. 0.00 min  
 Lab File: VU023632.D  
 Acq: 04 May 2018 05:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 3257  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 59.0  | 46.0  | 85.4  |
| 132      | 102.3 | 68.1  | 126.5 |
| 130      | 105.5 | 70.1  | 130.1 |

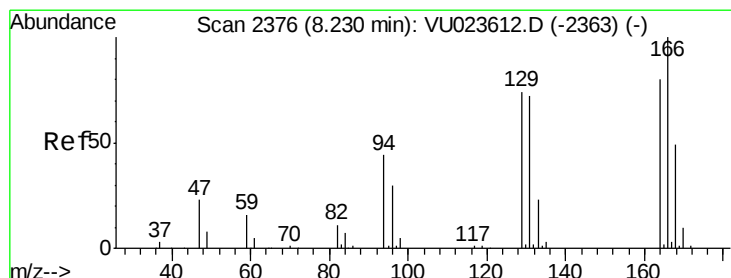
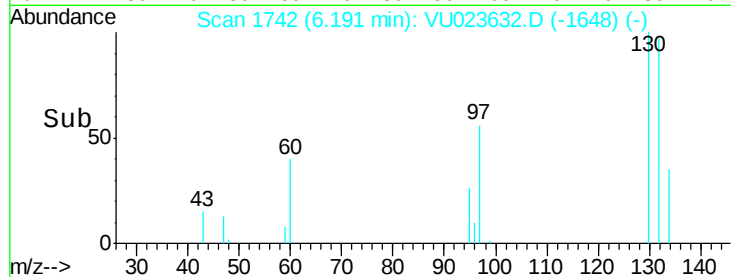
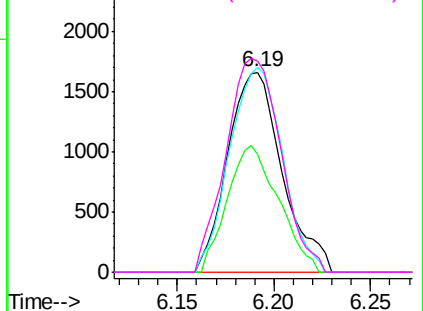


Abundance Ion 95.00 (94.70 to 95.70): VU023632.D (-1648) (-)

Ion 96.95 (96.65 to 97.65): VU023632.D (-1648) (-)

Ion 131.95 (131.65 to 132.65): VU023632.D (-1648) (-)

Ion 129.95 (129.65 to 130.65): VU023632.D (-1648) (-)



#47  
 Tetrachloroethene  
 Concen: 0.25 ug/L  
 RT: 8.23 min Scan# 2377  
 Delta R.T. 0.00 min  
 Lab File: VU023632.D  
 Acq: 04 May 2018 05:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 1253  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 94.6  | 64.4  | 119.6 |
| 131      | 108.4 | 63.9  | 118.7 |
| 166      | 124.2 | 90.0  | 167.2 |

Abundance Ion 163.90 (163.60 to 164.60): VU023632.D (-2283) (-)

Ion 128.95 (128.65 to 129.65): VU023632.D (-2283) (-)

Ion 130.95 (130.65 to 131.65): VU023632.D (-2283) (-)

Ion 165.90 (165.60 to 166.60): VU023632.D (-2283) (-)

