

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU080418\  
 Data File : VU025832.D  
 Acq On : 03 Aug 2018 20:44  
 Operator : MD/SY  
 Sample : J4340-07  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E5F72

Quant Time: Aug 03 23:53:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 03 23:51:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 327805   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 313987   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 151963   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 79660    | 42.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.14% |
| 7) Chloroethane-d5             | 1.68    | 69    | 65551    | 42.46    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.92% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 128530   | 32.99    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.98% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 142351   | 98.53    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.53% |
| 24) Chloroform-d               | 4.65    | 84    | 181354   | 43.51    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.02% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 125401   | 45.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.98% |
| 32) Benzene-d6                 | 5.35    | 84    | 354689   | 44.04    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.08% |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 115503   | 44.51    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.02% |
| 41) Toluene-d8                 | 7.57    | 98    | 330011   | 42.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.46% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 55630    | 41.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.94% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 103119   | 94.91    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 94.91% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 155095   | 42.74    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 85.48% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 137160   | 44.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.08% |

## Target Compounds

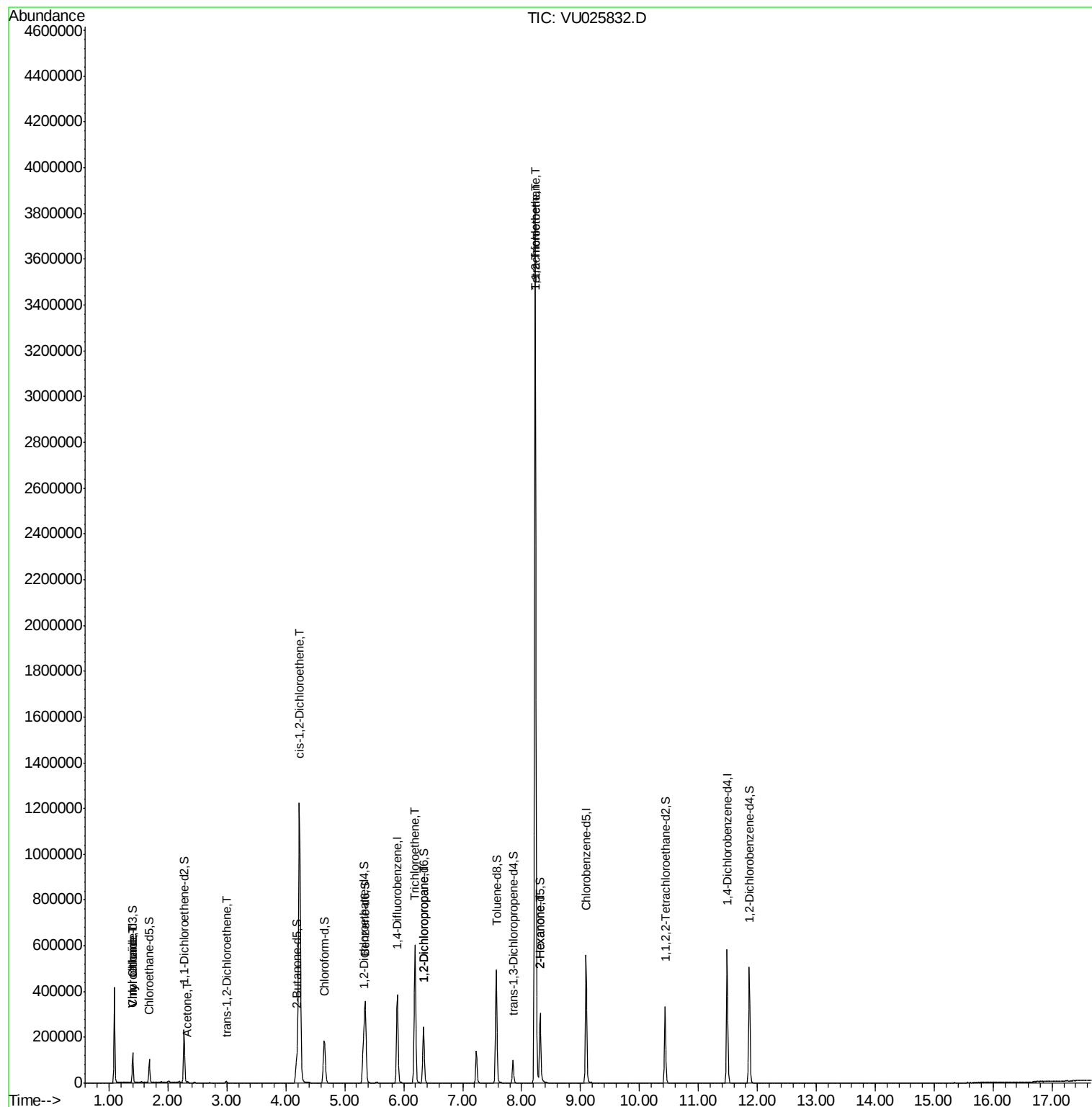
|                              |      |     |        |              | Qvalue |
|------------------------------|------|-----|--------|--------------|--------|
| 5) Vinyl chloride            | 1.40 | 62  | 5365   | 2.097 ug/L # | 70     |
| 8) Chloroethane              | 1.40 | 64  | 2726   | 1.810 ug/L # | 16     |
| 13) Acetone                  | 2.32 | 43  | 3382   | 1.994 ug/L   | 88     |
| 17) trans-1,2-Dichloroethene | 2.99 | 96  | 3157   | 1.482 ug/L   | 83     |
| 20) cis-1,2-Dichloroethene   | 4.23 | 96  | 681136 | 283.303 ug/L | 93     |
| 34) Trichloroethene          | 6.19 | 95  | 204818 | 85.563 ug/L  | 96     |
| 37) 1,2-Dichloropropane      | 6.34 | 63  | 13060  | 5.297 ug/L # | 88     |
| 45) 1,1,2-Trichloroethane    | 8.23 | 97  | 7342   | 3.105 ug/L # | 2      |
| 46) Tetrachloroethene        | 8.23 | 164 | 869289 | 418.886 ug/L | 99     |
| 48) 2-Hexanone               | 8.31 | 43  | 12487  | 4.564 ug/L # | 68     |

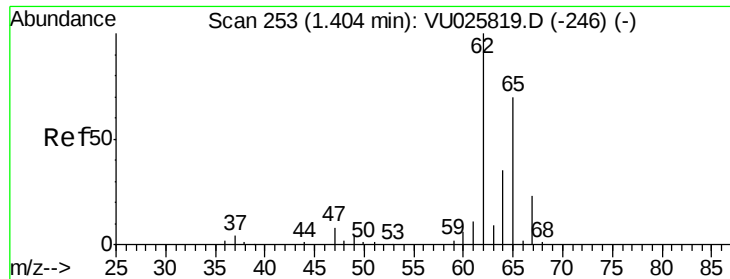
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU080418\  
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Operator : MD/SY  
Sample : J4340-07  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
E5F72

Quant Time: Aug 03 23:53:08 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 03 23:51:54 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.097 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025832.D

Acq: 03 Aug 2018 20:44

Instrument :

MSVOA\_U

ClientSampleId :

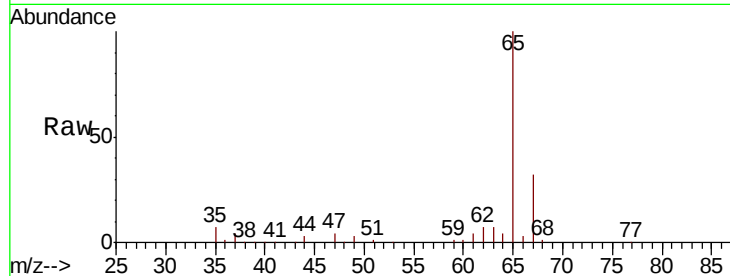
E5F72

Tgt Ion: 62 Resp: 5365

Ion Ratio Lower Upper

62 100

64 49.0 22.7 42.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

6000

5000

4000

3000

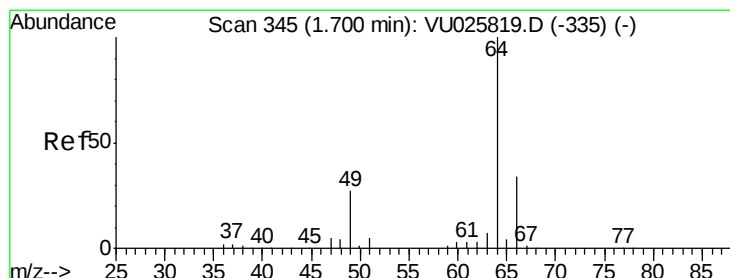
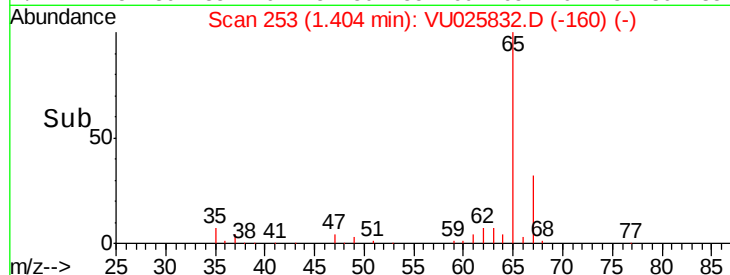
2000

1000

0

1.36 1.38 1.40 1.42 1.44

Time-->



#8

Chloroethane

Concen: 1.810 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.30 min

Lab File: VU025832.D

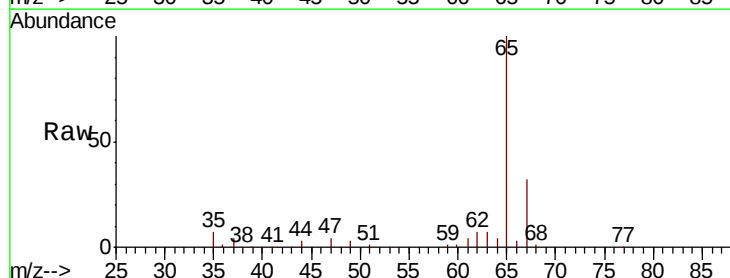
Acq: 03 Aug 2018 20:44

Tgt Ion: 64 Resp: 2726

Ion Ratio Lower Upper

64 100

66 81.5 23.5 43.7#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

2500

2000

1500

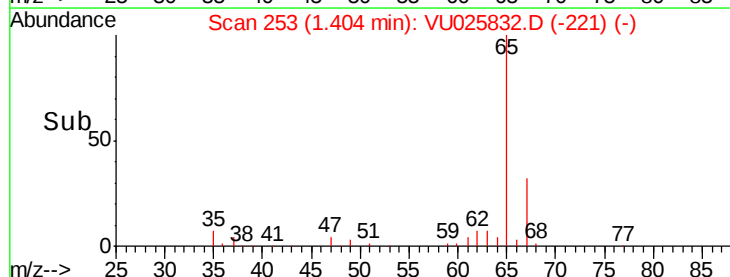
1000

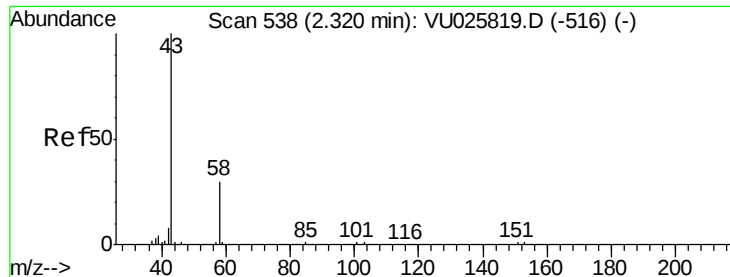
500

0

1.38 1.40 1.42 1.44

Time-->





#13

Acetone

Concen: 1.994 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025832.D

Acq: 03 Aug 2018 20:44

Instrument :

MSVOA\_U

ClientSampleId :

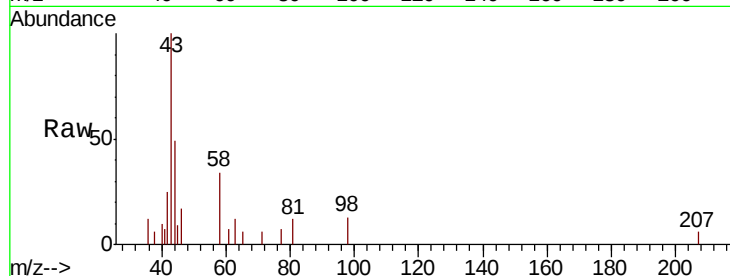
E5F72

Tgt Ion: 43 Resp: 3382

Ion Ratio Lower Upper

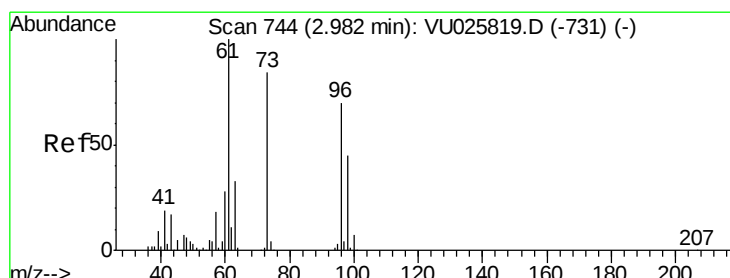
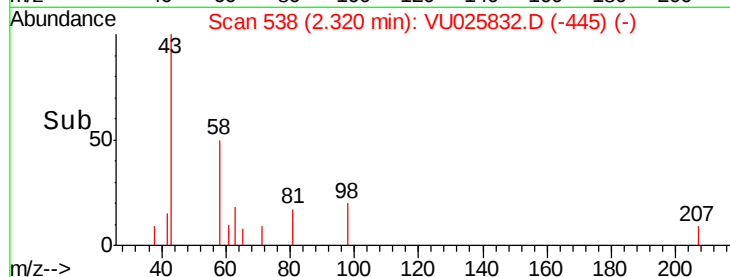
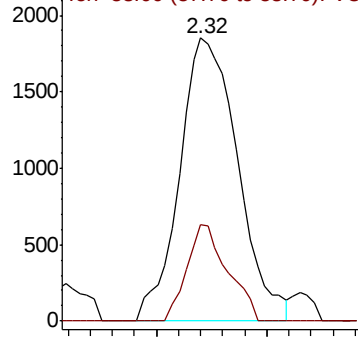
43 100

58 23.9 0.0 61.2



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: 1.482 ug/L

RT: 2.99 min Scan# 746

Delta R.T. 0.01 min

Lab File: VU025832.D

Acq: 03 Aug 2018 20:44

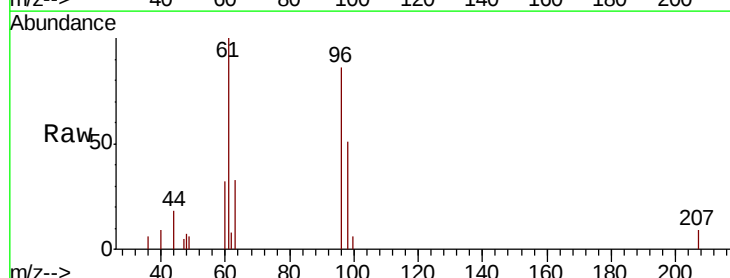
Tgt Ion: 96 Resp: 3157

Ion Ratio Lower Upper

96 100

61 115.8 100.0 185.8

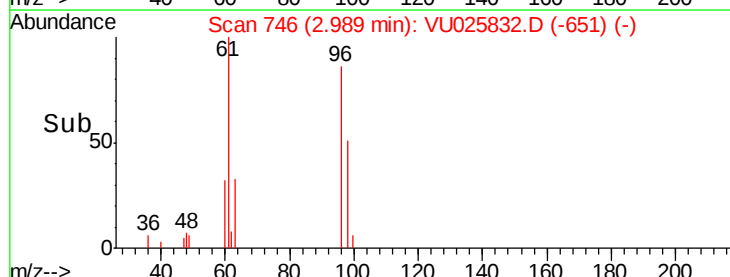
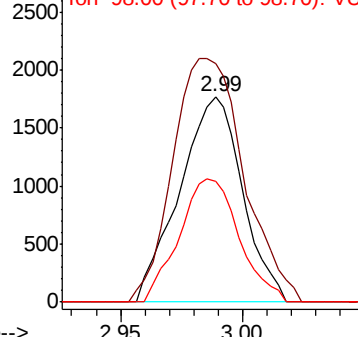
98 58.8 44.7 83.1

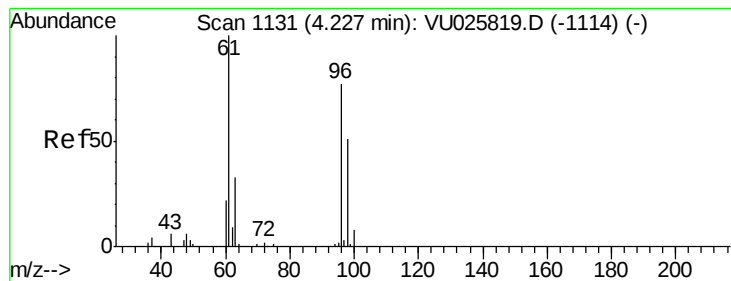


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#20

cis-1,2-Dichloroethene

Concen: 283.303 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU025832.D

Acq: 03 Aug 2018 20:44

Instrument :

MSVOA\_U

ClientSampleId :

E5F72

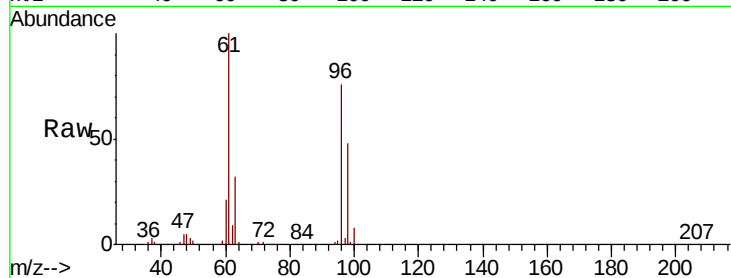
Tgt Ion: 96 Resp: 681136

Ion Ratio Lower Upper

96 100

61 132.2 87.4 162.2

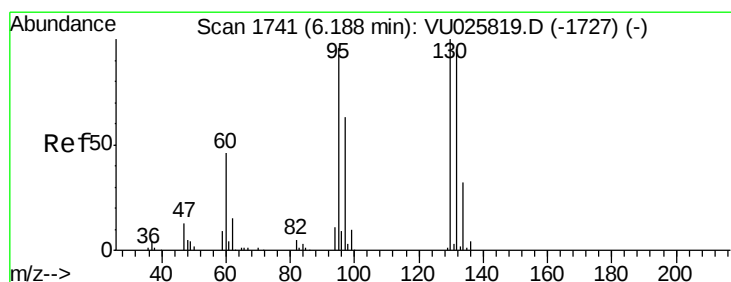
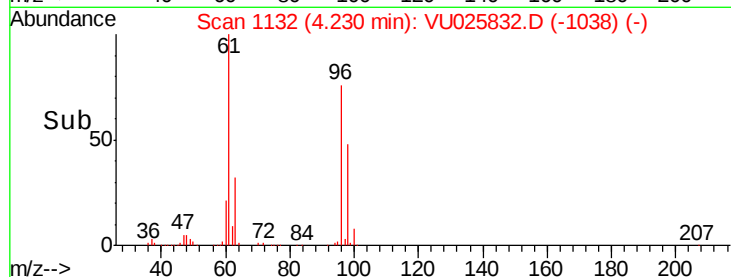
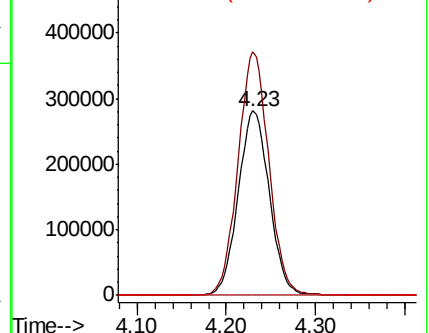
68 0.0 0.0 0.0



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: 85.563 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU025832.D

Acq: 03 Aug 2018 20:44

Tgt Ion: 95 Resp: 204818

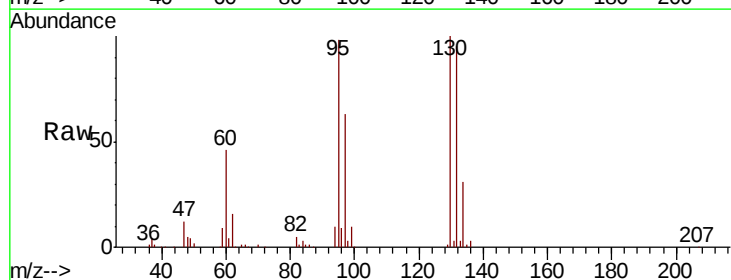
Ion Ratio Lower Upper

95 100

97 64.3 45.9 85.3

132 97.5 72.2 134.2

130 102.2 74.9 139.1

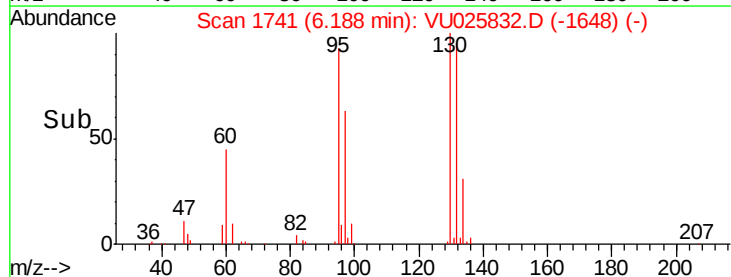
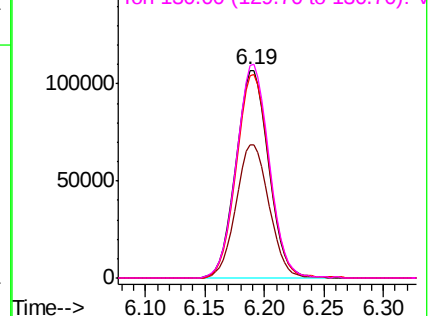


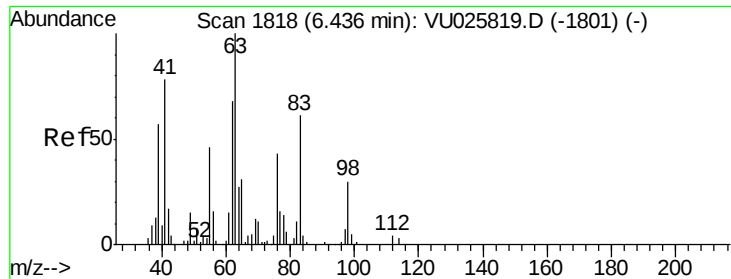
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





#37

1,2-Dichloropropane

Concen: 5.297 ug/L

RT: 6.34 min Scan# 1787

Delta R.T. -0.10 min

Lab File: VU025832.D

Acq: 03 Aug 2018 20:44

Instrument :

MSVOA\_U

ClientSampleId :

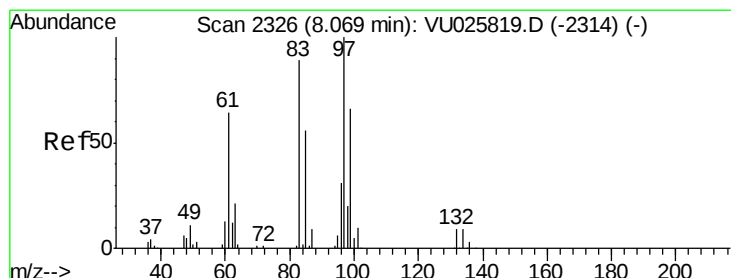
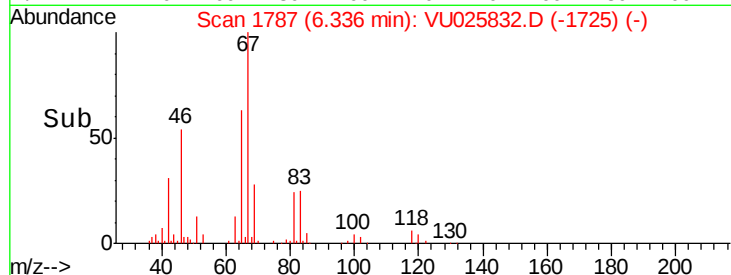
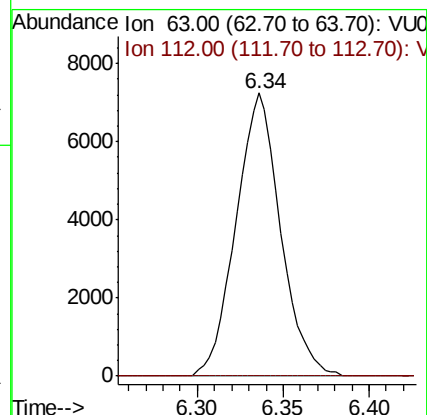
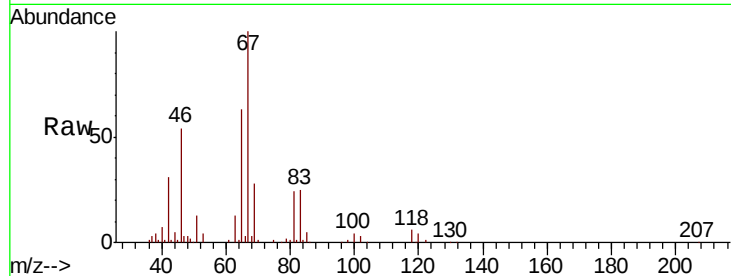
E5F72

Tgt Ion: 63 Resp: 13060

Ion Ratio Lower Upper

63 100

112 0.0 3.3 4.9#



#45

1,1,2-Trichloroethane

Concen: 3.105 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.16 min

Lab File: VU025832.D

Acq: 03 Aug 2018 20:44

Tgt Ion: 97 Resp: 7342

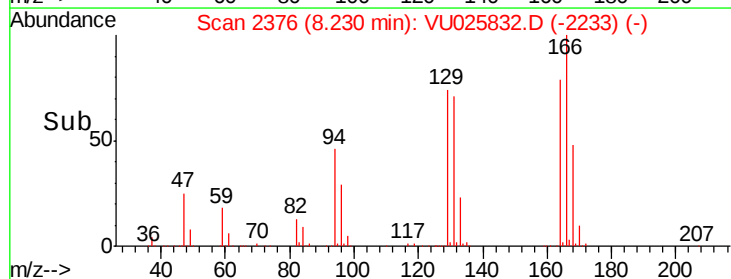
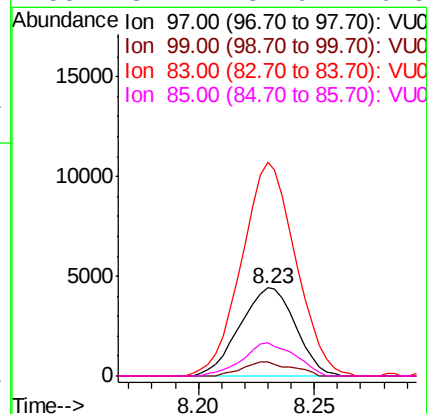
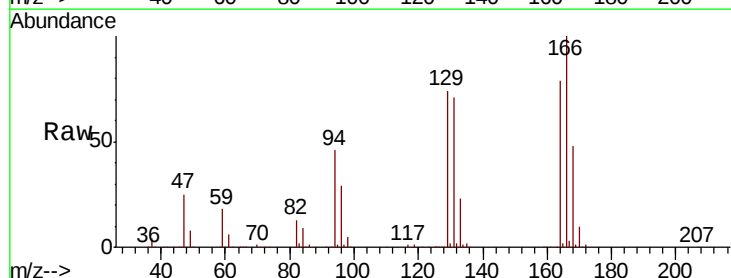
Ion Ratio Lower Upper

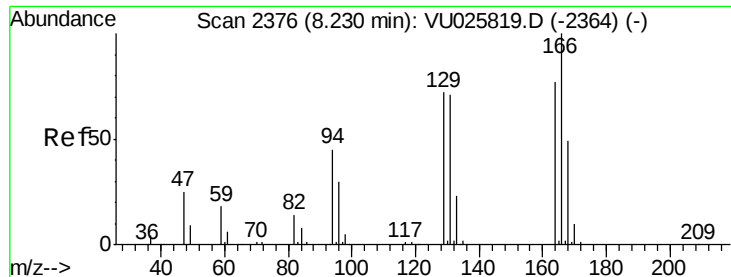
97 100

99 15.5 44.3 82.3#

83 242.8 59.8 111.1#

85 37.4 37.9 70.5#

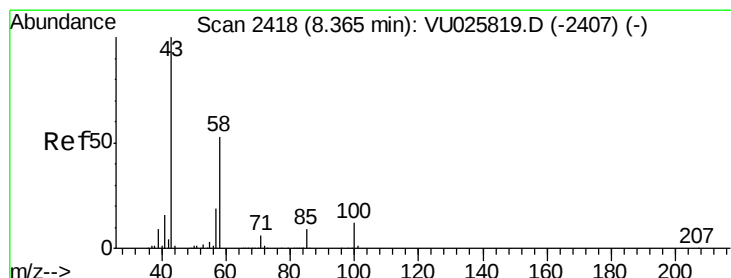
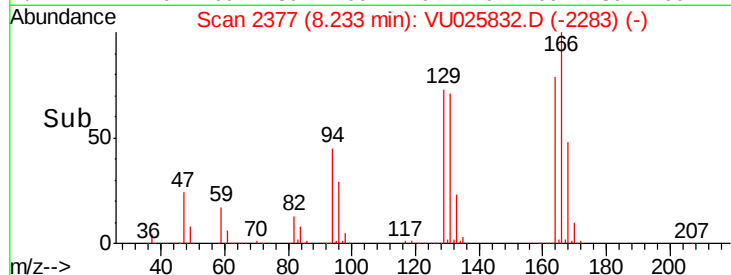
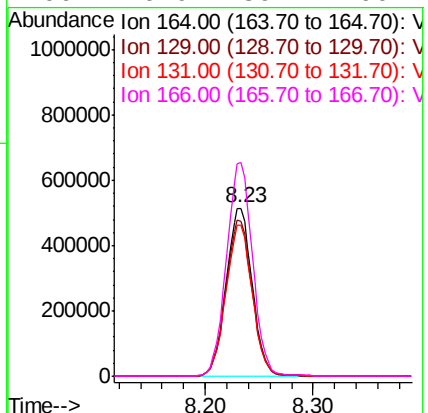
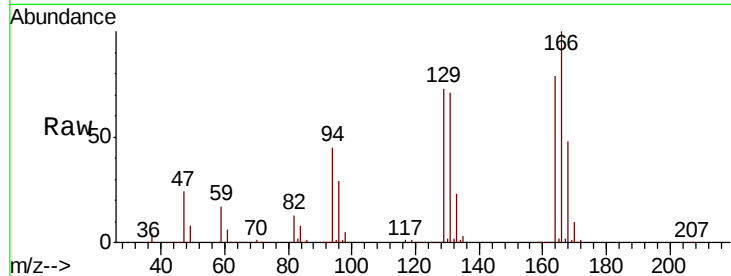




#46  
Tetrachloroethene  
Concen: 418.886 ug/L  
RT: 8.23 min Scan# 2377  
Delta R.T. 0.00 min  
Lab File: VU025832.D  
Acq: 03 Aug 2018 20:44

Instrument :  
MSVOA\_U  
ClientSampleId :  
E5F72

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 869289 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 92.1  | 65.1  | 120.9  |
| 131      | 89.8  | 62.8  | 116.6  |
| 166      | 126.9 | 89.7  | 166.7  |



#48  
2-Hexanone  
Concen: 4.564 ug/L  
RT: 8.31 min Scan# 2402  
Delta R.T. -0.05 min  
Lab File: VU025832.D  
Acq: 03 Aug 2018 20:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 12487 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 25.9  | 42.9  | 64.3# |
| 57       | 26.0  | 15.4  | 23.2# |
| 100      | 0.0   | 9.6   | 14.4# |

