

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111418\  
 Data File : VU028150.D  
 Acq On : 15 Nov 2018 03:41  
 Operator : MD/SY  
 Sample : J5943-12  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0FL1

Quant Time: Nov 28 07:41:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111418WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Nov 15 06:14:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 133438   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 127620   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 58166    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 53871    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.20%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 40403    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 71109    | 3.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 68.80%  |
| 20) 2-Butanone-d5              | 4.21   | 46    | 175901   | 54.77    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.54% |
| 24) Chloroform-d               | 4.65   | 84    | 83740    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 49296    | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.20% |
| 32) Benzene-d6                 | 5.34   | 84    | 171820   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 65192    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.40%  |
| 41) Toluene-d8                 | 7.57   | 98    | 152478   | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.40%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 19604    | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 84.00%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 134625   | 50.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.84% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 45725    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 54593    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.40% |

## Target Compounds

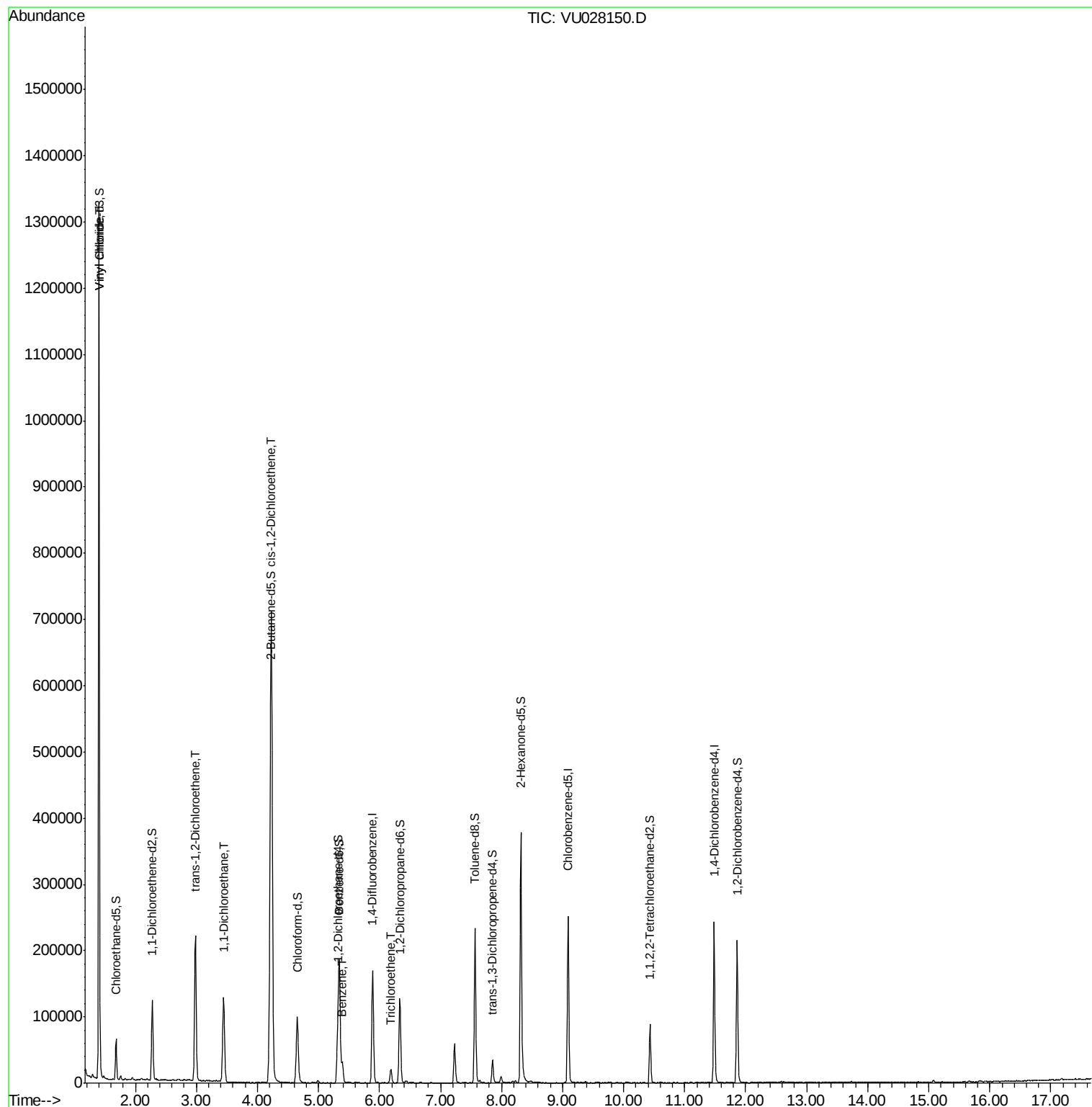
|                              |      |    |        |             | Qvalue |
|------------------------------|------|----|--------|-------------|--------|
| 5) Vinyl chloride            | 1.40 | 62 | 811067 | 56.747 ug/L | 99     |
| 18) trans-1,2-Dichloroethene | 2.98 | 96 | 74898  | 7.940 ug/L  | 98     |
| 19) 1,1-Dichloroethane       | 3.45 | 63 | 143682 | 7.243 ug/L  | 99     |
| 22) cis-1,2-Dichloroethene   | 4.23 | 96 | 351780 | 33.824 ug/L | 97     |
| 33) Benzene                  | 5.39 | 78 | 28906  | 0.672 ug/L  | 100    |
| 34) Trichloroethene          | 6.19 | 95 | 7619   | 0.717 ug/L  | 90     |

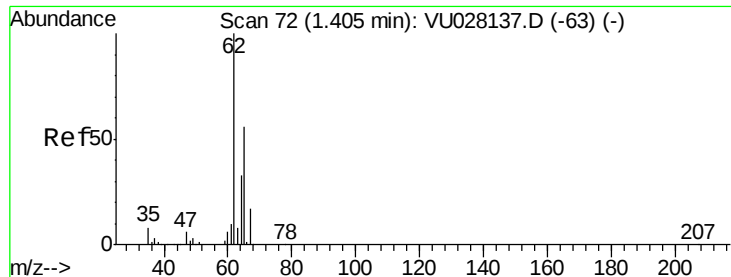
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 28 07:41:47 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111418WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 15 06:14:20 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 56.747 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028150.D

Acq: 15 Nov 2018 03:41

Instrument :

MSVOA\_U

ClientSampleId :

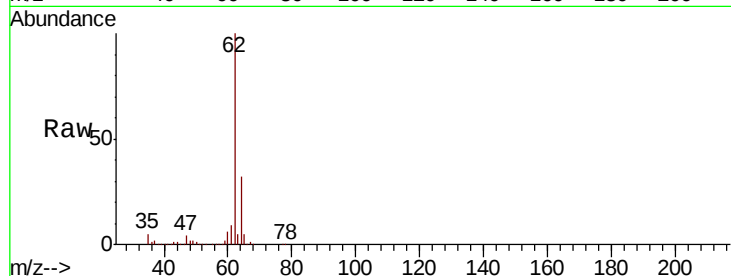
H0FL1

Tgt Ion: 62 Resp: 811067

Ion Ratio Lower Upper

62 100

64 31.8 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.40

800000

600000

400000

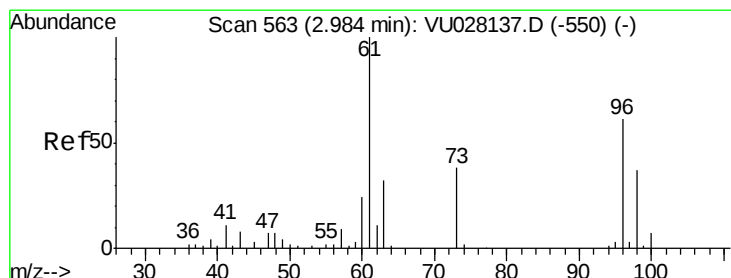
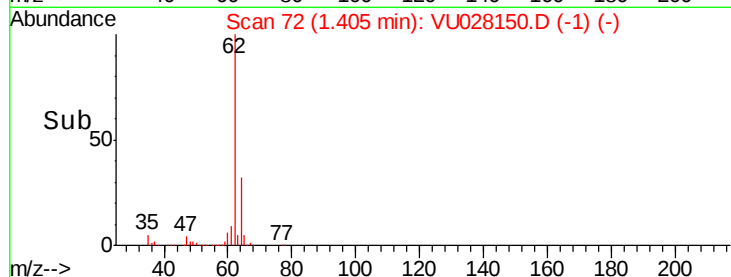
200000

0

1.40

1.50

Time-->



#18

trans-1,2-Dichloroethene

Concen: 7.940 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028150.D

Acq: 15 Nov 2018 03:41

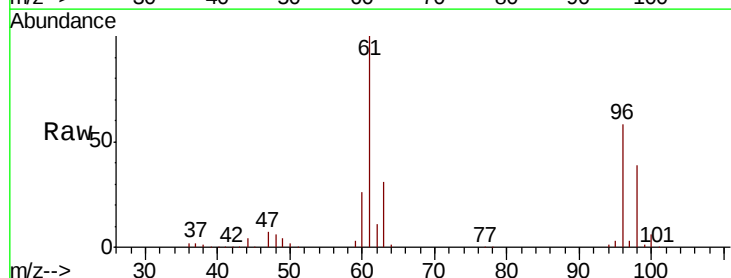
Tgt Ion: 96 Resp: 74898

Ion Ratio Lower Upper

96 100

61 172.4 118.5 220.1

98 66.5 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

80000

60000

40000

20000

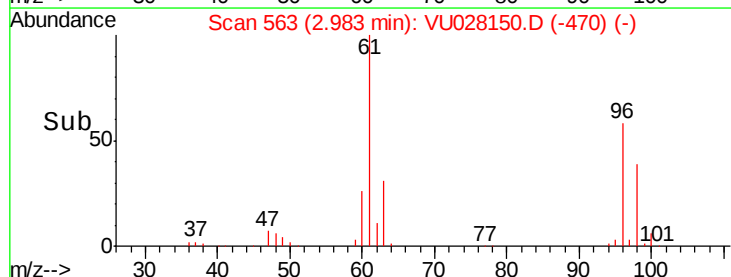
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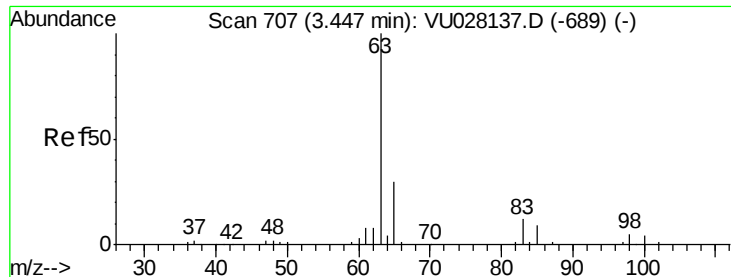
2.98

3.00

3.05

Time-->

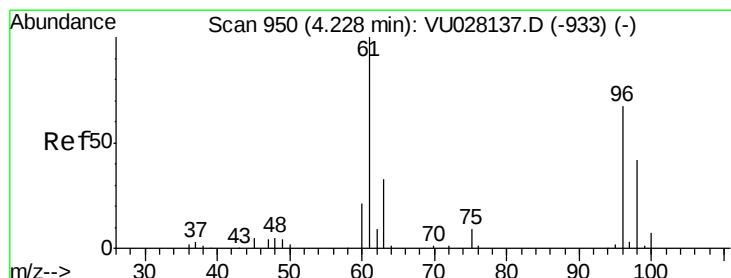
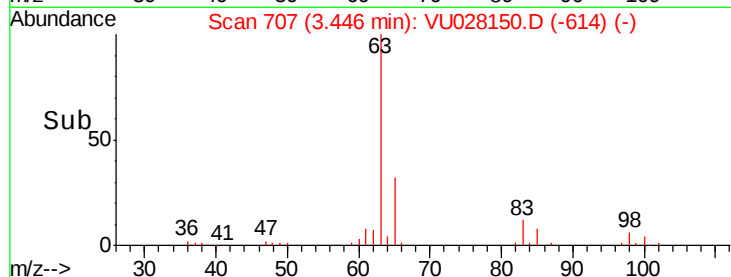
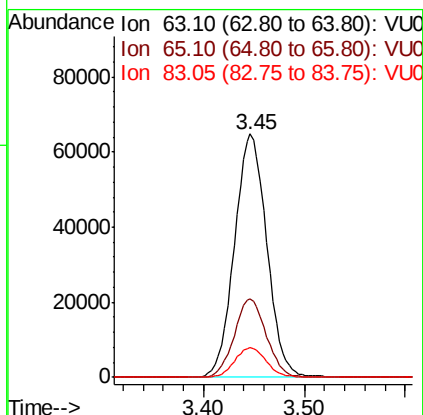
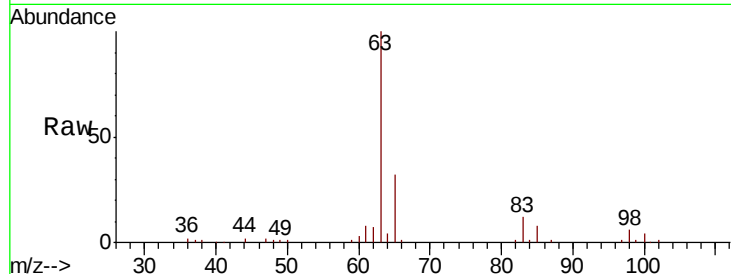




#19  
 1,1-Dichloroethane  
 Concen: 7.243 ug/L  
 RT: 3.45 min Scan# 707  
 Delta R.T. -0.00 min  
 Lab File: VU028150.D  
 Acq: 15 Nov 2018 03:41

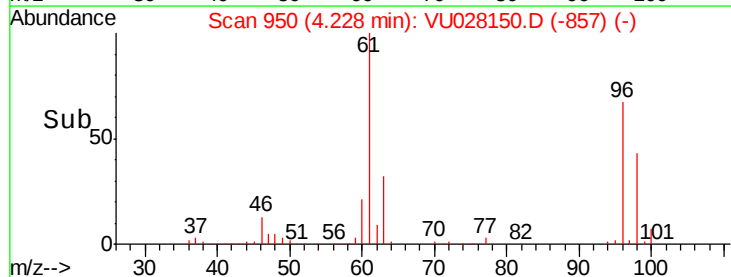
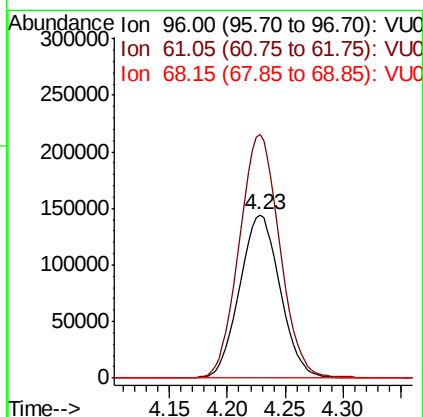
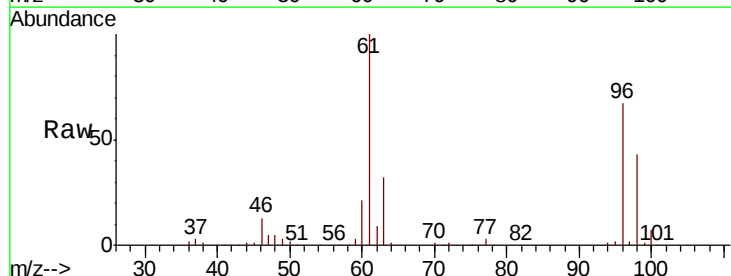
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 H0FL1

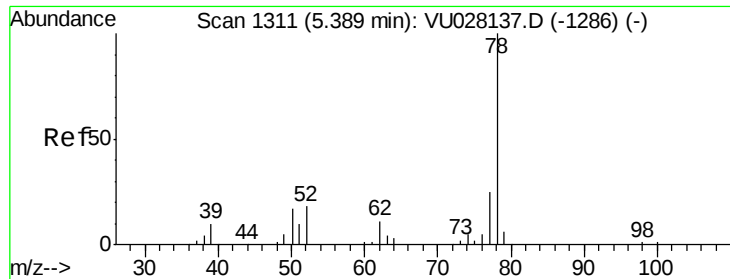
Tgt Ion: 63 Resp: 143682  
 Ion Ratio Lower Upper  
 63 100  
 65 32.1 22.2 41.2  
 83 12.1 8.9 16.5



#22  
 cis-1,2-Dichloroethene  
 Concen: 33.824 ug/L  
 RT: 4.23 min Scan# 950  
 Delta R.T. -0.00 min  
 Lab File: VU028150.D  
 Acq: 15 Nov 2018 03:41

Tgt Ion: 96 Resp: 351780  
 Ion Ratio Lower Upper  
 96 100  
 61 149.0 101.8 189.0  
 68 0.0 0.0 0.0





#33

Benzene

Concen: 0.672 ug/L

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU028150.D

Acq: 15 Nov 2018 03:41

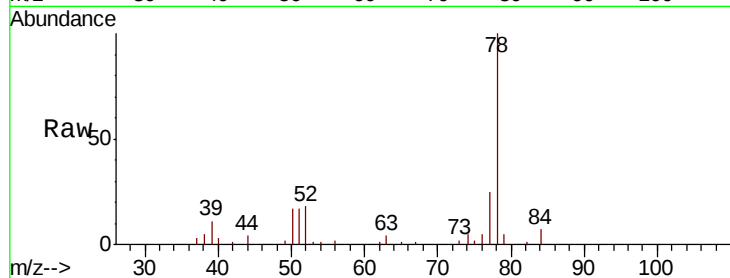
Instrument :

MSVOA\_U

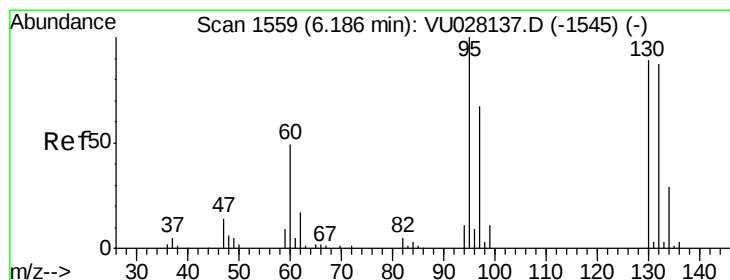
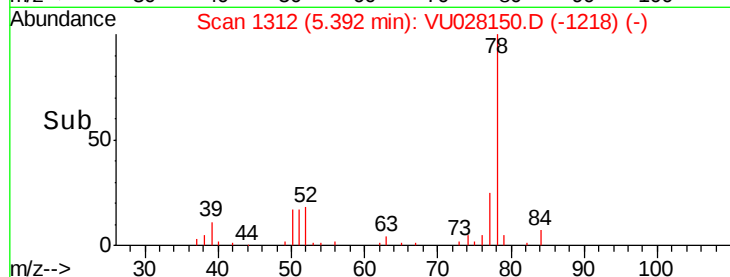
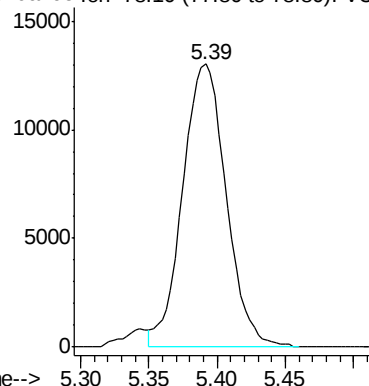
ClientSampled :

H0FL1

Tgt Ion: 78 Resp: 28906



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.717 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028150.D

Acq: 15 Nov 2018 03:41

Tgt Ion: 95 Resp: 7619

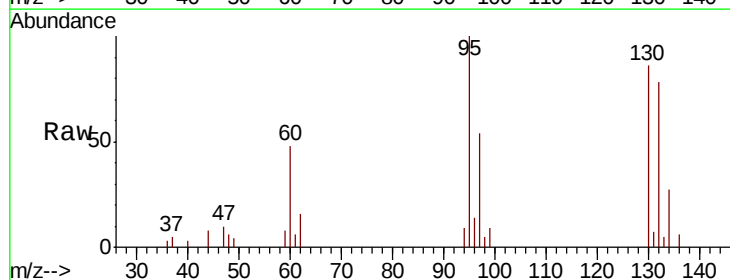
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 53.7  | 45.3  | 84.1  |
| 132 | 78.1  | 63.0  | 117.0 |
| 130 | 85.5  | 63.6  | 118.2 |

95 100

97 53.7 45.3 84.1

132 78.1 63.0 117.0

130 85.5 63.6 118.2



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

