

Data File : VU028259.D  
Acq On : 19 Nov 2018 17:14  
Operator : MD/SY  
Sample : J5986-03MSD 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H0FG7MSD

Quant Time: Nov 26 04:35:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 20 07:07:24 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 131098   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 127206   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 56255    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 41461    | 4.20     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 84.00% |
| 7) Chloroethane-d5             | 1.68   | 69    | 37881    | 4.45     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 89.00% |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 89095    | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.80% |
| 20) 2-Butanone-d5              | 4.19   | 46    | 146415   | 44.35    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 88.70% |
| 24) Chloroform-d               | 4.65   | 84    | 78235    | 4.25     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.00% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 43660    | 4.29     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.80% |
| 32) Benzene-d6                 | 5.34   | 84    | 158081   | 4.32     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 86.40% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 59201    | 4.45     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.00% |
| 41) Toluene-d8                 | 7.57   | 98    | 140294   | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.60% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 17293    | 4.07     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 81.40% |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 103767   | 40.74    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 81.48% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 42094    | 4.38     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 87.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 47845    | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.40% |

#### Target Compounds

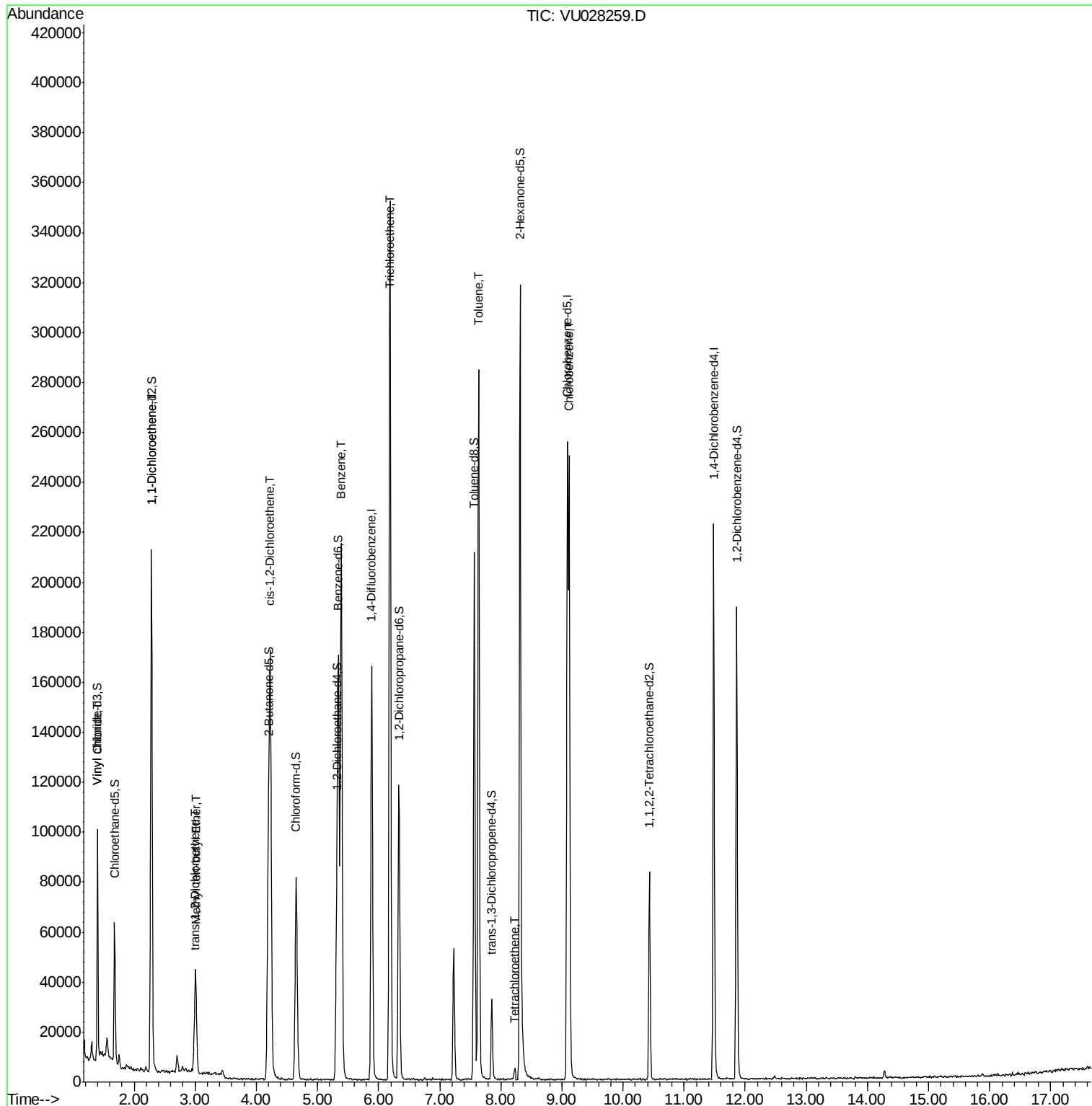
|                              |      |     |        |              | Qvalue |
|------------------------------|------|-----|--------|--------------|--------|
| 5) Vinyl chloride            | 1.40 | 62  | 12475  | 0.938 ug/L # | 64     |
| 12) 1,1-Dichloroethene       | 2.29 | 96  | 43330  | 5.369 ug/L   | 88     |
| 17) Methyl tert-butyl Ether  | 3.01 | 73  | 39328  | 1.622 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene | 2.98 | 96  | 2900   | 0.337 ug/L   | 84     |
| 22) cis-1,2-Dichloroethene   | 4.23 | 96  | 75332  | 7.413 ug/L   | 94     |
| 33) Benzene                  | 5.39 | 78  | 203029 | 4.837 ug/L   | 100    |
| 34) Trichloroethene          | 6.19 | 95  | 123813 | 12.050 ug/L  | 95     |
| 42) Toluene                  | 7.64 | 91  | 202876 | 4.769 ug/L   | 97     |
| 47) Tetrachloroethene        | 8.23 | 164 | 1096   | 0.154 ug/L # | 80     |
| 51) Chlorobenzene            | 9.12 | 112 | 121290 | 4.951 ug/L   | 99     |

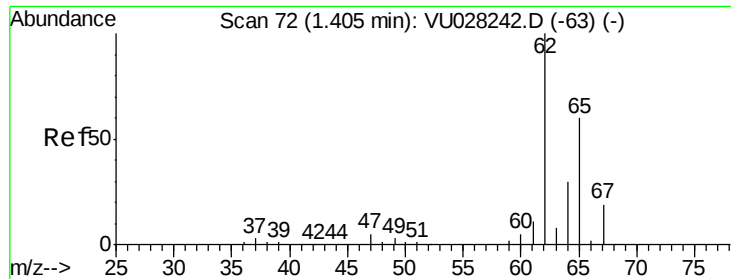
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.938 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028259.D

Acq: 19 Nov 2018 17:14

Instrument :

MSVOA\_U

ClientSampleId :

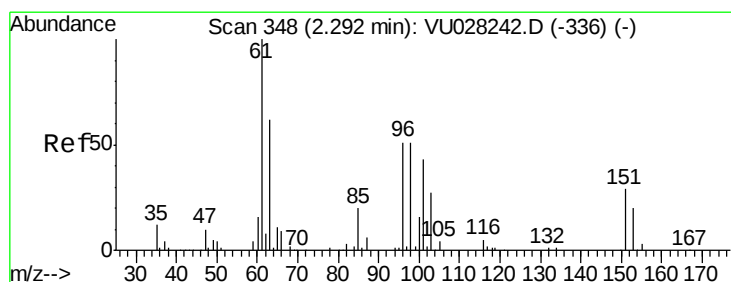
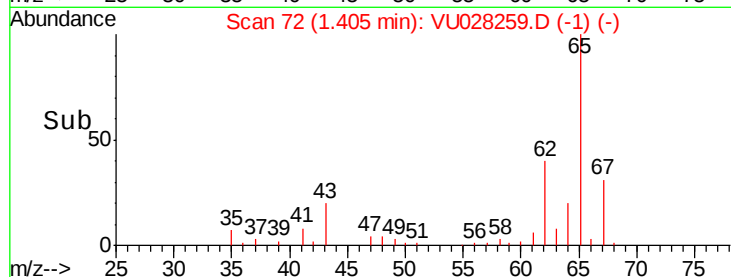
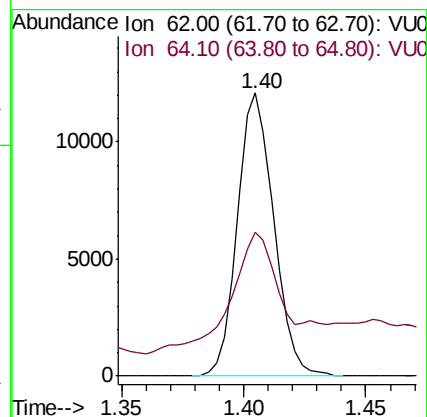
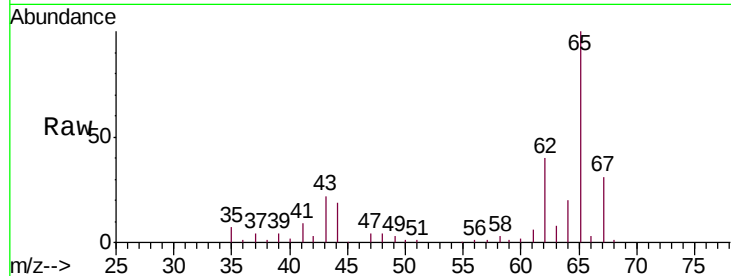
H0FG7MSD

Tgt Ion: 62 Resp: 12475

Ion Ratio Lower Upper

62 100

64 50.7 21.7 40.3#



#12

1,1-Dichloroethene

Concen: 5.369 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028259.D

Acq: 19 Nov 2018 17:14

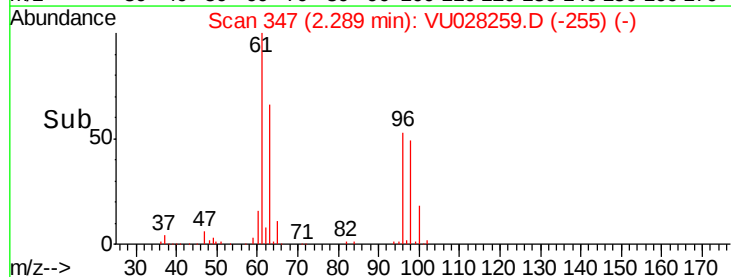
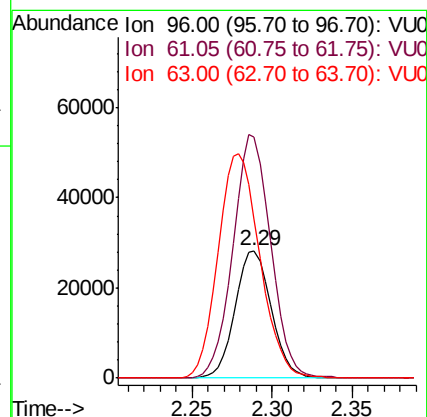
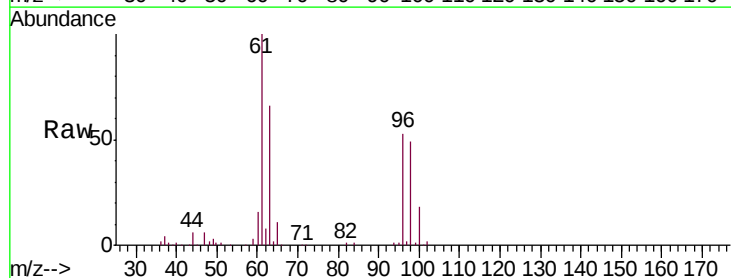
Tgt Ion: 96 Resp: 43330

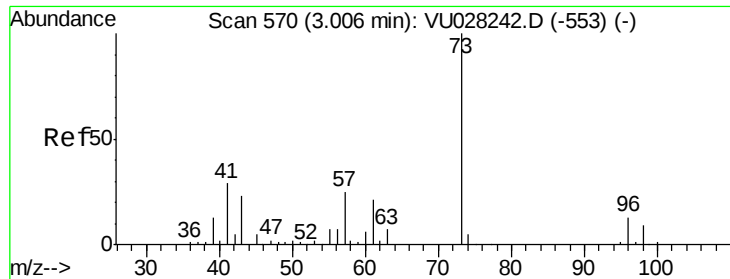
Ion Ratio Lower Upper

96 100

61 189.4 145.5 270.1

63 125.0 98.6 183.2

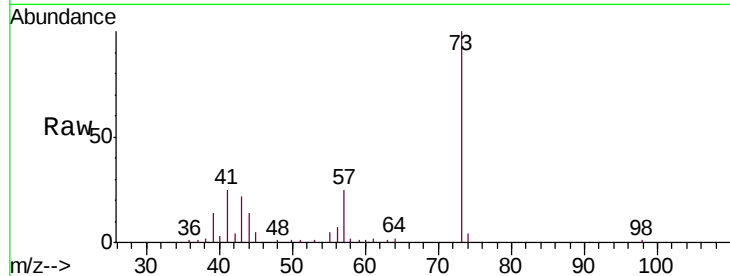




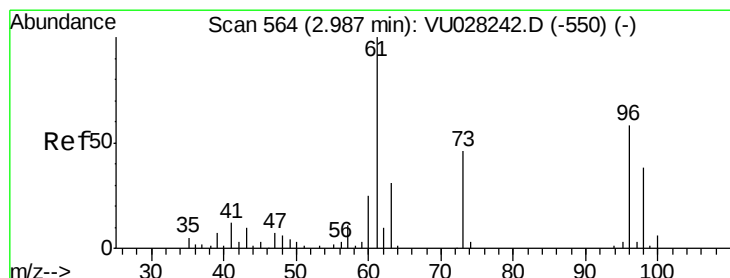
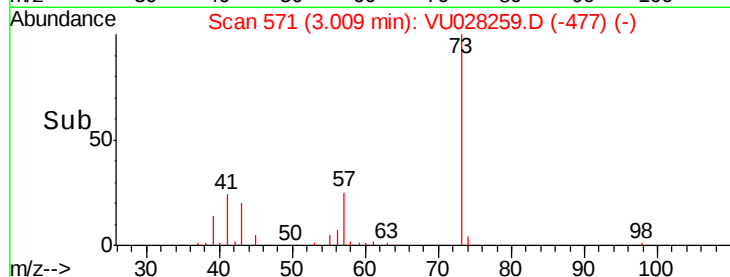
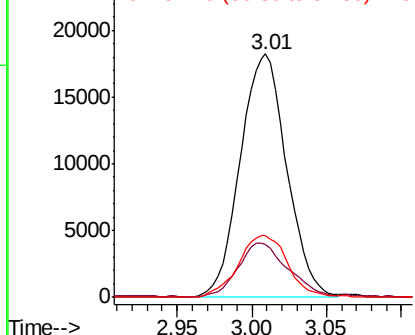
#17  
Methyl tert-butyl Ether  
Concen: 1.622 ug/L  
RT: 3.01 min Scan# 571  
Delta R.T. 0.00 min  
Lab File: VU028259.D  
Acq: 19 Nov 2018 17:14

Instrument :  
MSVOA\_U  
ClientSampleId :  
H0FG7MSD

Tgt Ion: 73 Resp: 39328  
Ion Ratio Lower Upper  
73 100  
43 24.0 18.8 28.2  
57 26.9 19.2 28.8

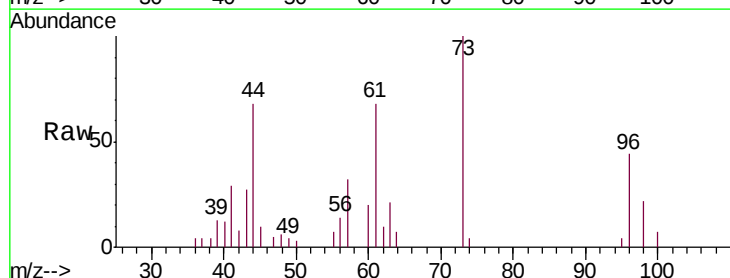


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

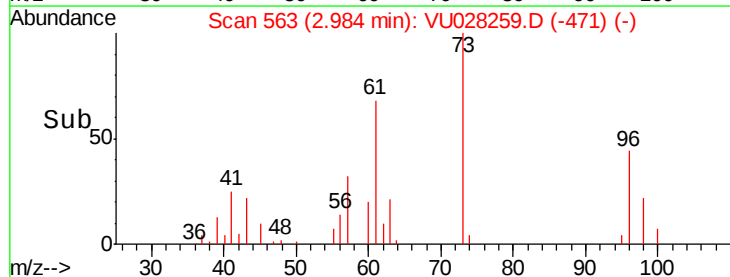
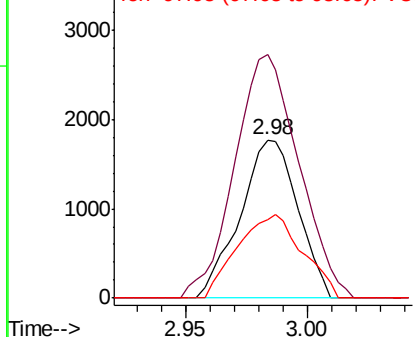


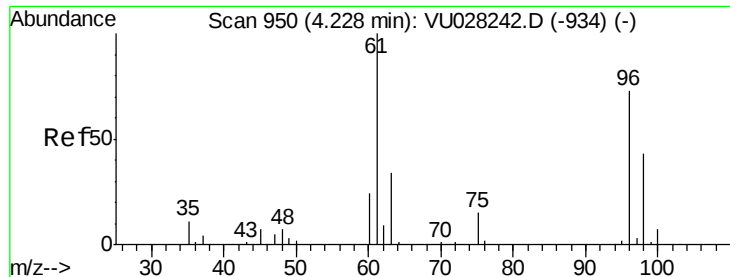
#18  
trans-1,2-Dichloroethene  
Concen: 0.337 ug/L  
RT: 2.98 min Scan# 563  
Delta R.T. -0.00 min  
Lab File: VU028259.D  
Acq: 19 Nov 2018 17:14

Tgt Ion: 96 Resp: 2900  
Ion Ratio Lower Upper  
96 100  
61 154.2 122.2 227.0  
98 50.1 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



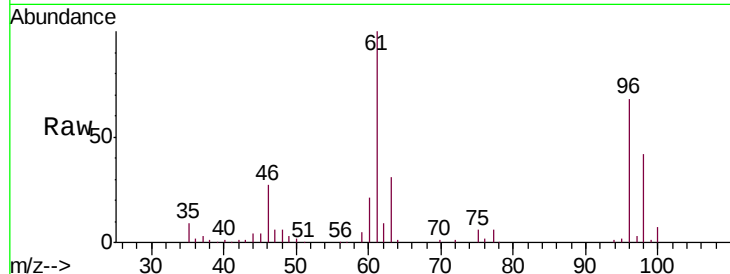


#22

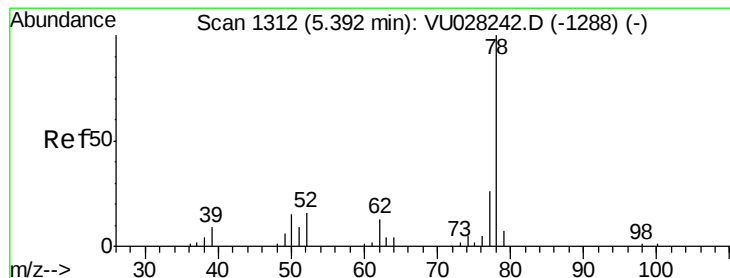
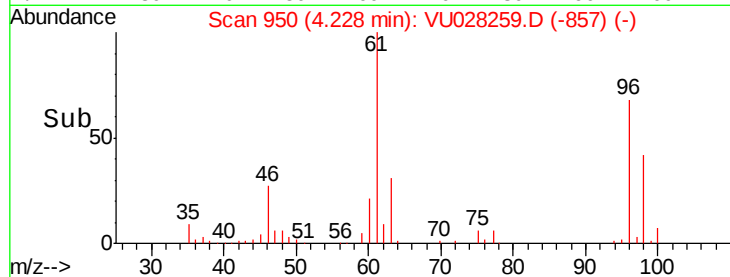
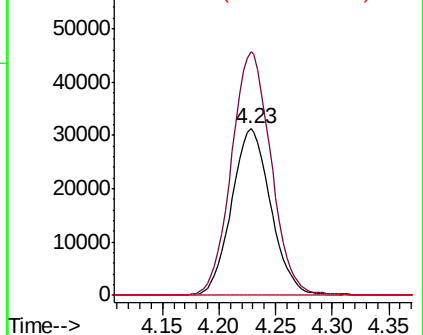
cis-1,2-Dichloroethene  
 Concen: 7.413 ug/L  
 RT: 4.23 min Scan# 950  
 Delta R.T. 0.00 min  
 Lab File: VU028259.D  
 Acq: 19 Nov 2018 17:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0FG7MSD

Tgt Ion: 96 Resp: 75332  
 Ion Ratio Lower Upper  
 96 100  
 61 146.3 108.0 200.6  
 68 0.0 0.0 0.0



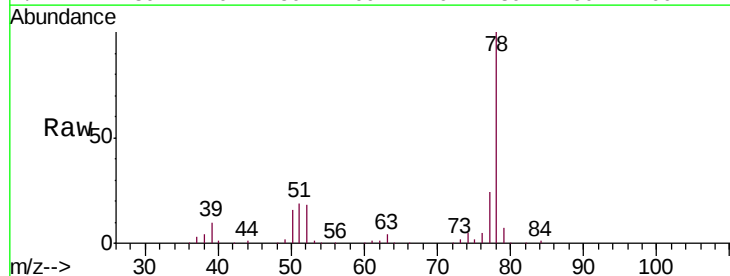
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



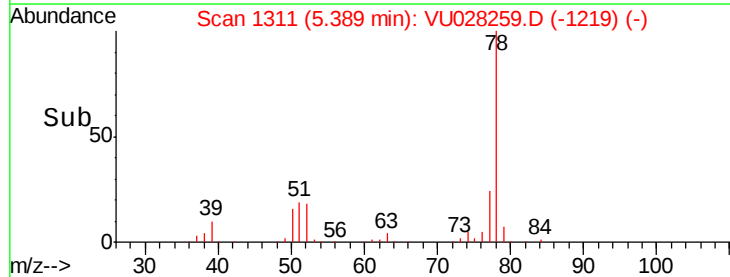
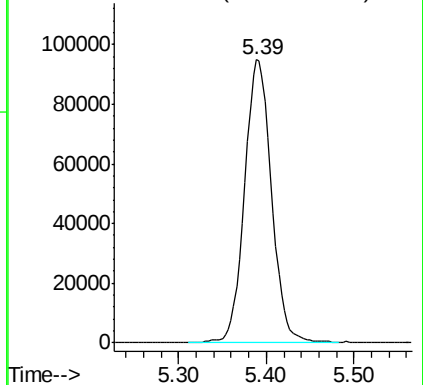
#33

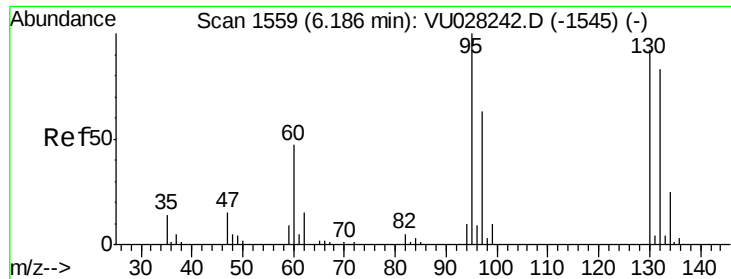
Benzene  
 Concen: 4.837 ug/L  
 RT: 5.39 min Scan# 1311  
 Delta R.T. -0.00 min  
 Lab File: VU028259.D  
 Acq: 19 Nov 2018 17:14

Tgt Ion: 78 Resp: 203029



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 12.050 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028259.D

Acq: 19 Nov 2018 17:14

Instrument :

MSVOA\_U

ClientSampleId :

H0FG7MSD

Tgt Ion: 95 Resp: 123813

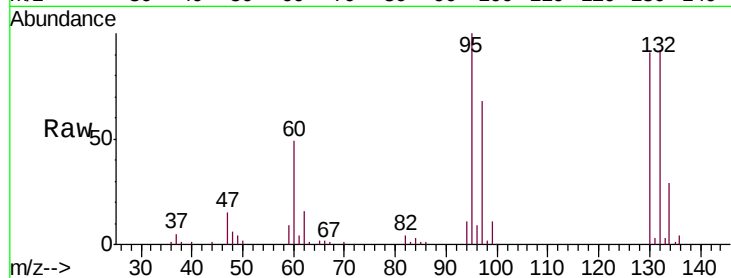
Ion Ratio Lower Upper

95 100

97 67.6 46.5 86.3

132 92.4 58.9 109.3

130 91.2 61.3 113.9

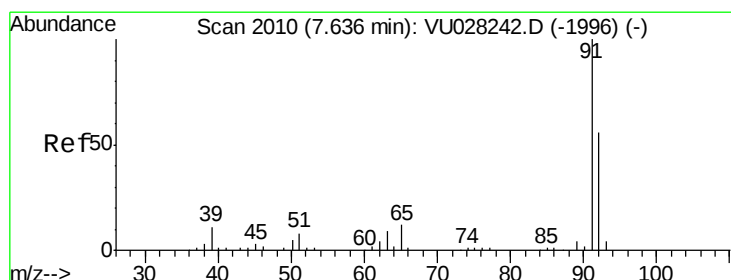
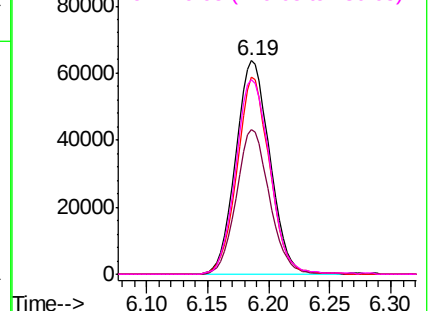
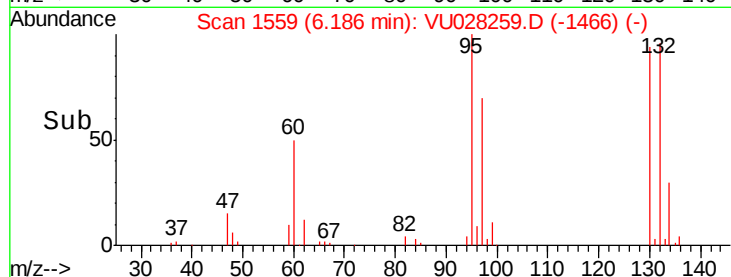


Abundance Ion 95.00 (94.70 to 95.70): VU028259.D (-1466) (-)

Ion 96.95 (96.65 to 97.65): VU028259.D (-1466) (-)

Ion 131.95 (131.65 to 132.65): VU028259.D (-1466) (-)

Ion 129.95 (129.65 to 130.65): VU028259.D (-1466) (-)



#42

Toluene

Concen: 4.769 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028259.D

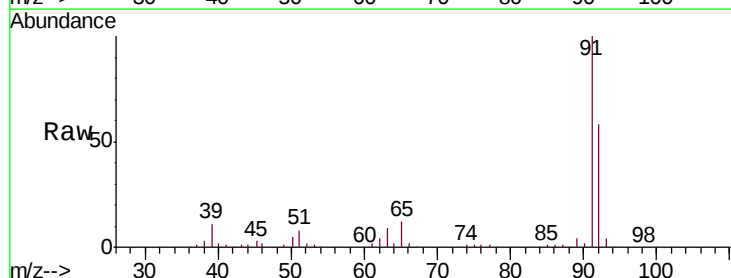
Acq: 19 Nov 2018 17:14

Tgt Ion: 91 Resp: 202876

Ion Ratio Lower Upper

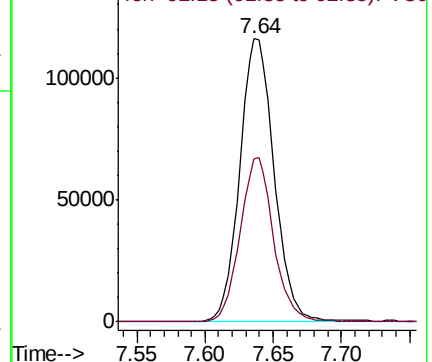
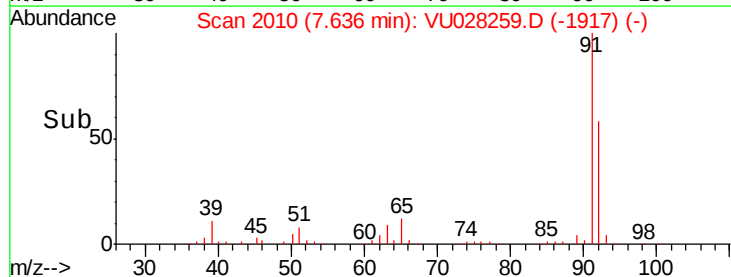
91 100

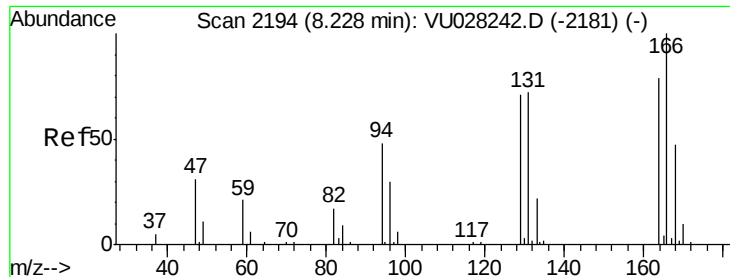
92 57.6 39.0 72.4



Abundance Ion 91.15 (90.85 to 91.85): VU028259.D (-1917) (-)

Ion 92.15 (91.85 to 92.85): VU028259.D (-1917) (-)





#47

Tetrachloroethene

Concen: 0.154 ug/L

RT: 8.23 min Scan# 2196

Delta R.T. 0.01 min

Lab File: VU028259.D

Acq: 19 Nov 2018 17:14

Instrument :

MSVOA\_U

ClientSampleId :

H0FG7MSD

Tgt Ion:164 Resp: 1096

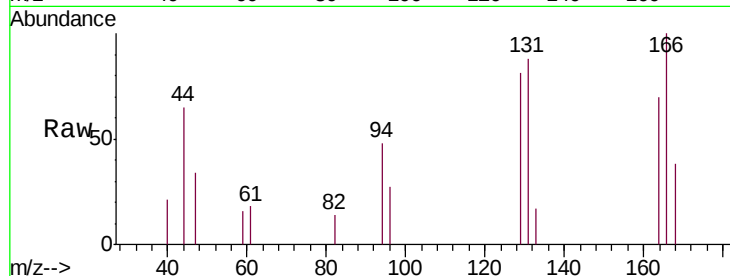
Ion Ratio Lower Upper

164 100

129 114.5 67.6 125.6

131 125.3 66.3 123.1#

166 142.2 89.2 165.6

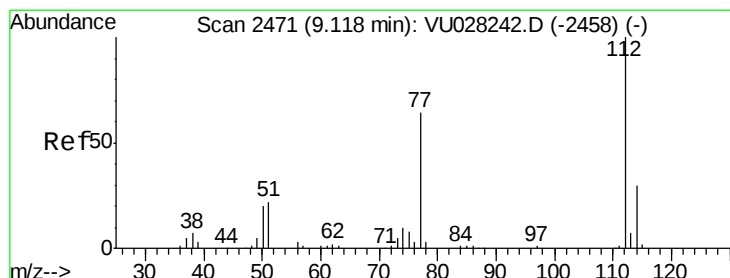
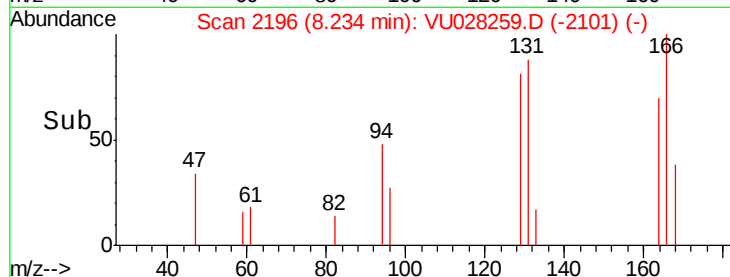
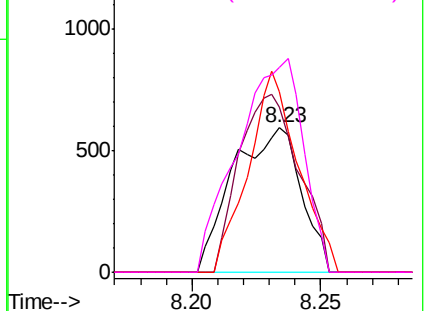


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#51

Chlorobenzene

Concen: 4.951 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU028259.D

Acq: 19 Nov 2018 17:14

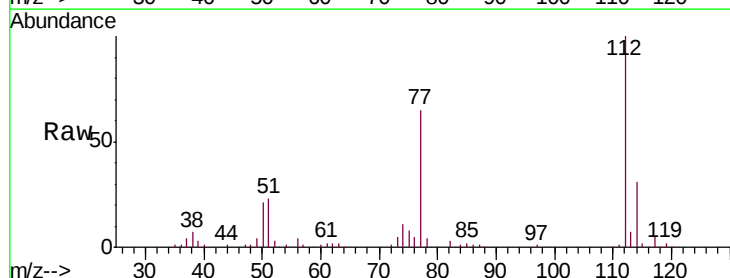
Tgt Ion:112 Resp: 121290

Ion Ratio Lower Upper

112 100

114 31.0 22.3 41.5

77 65.3 52.4 78.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU

