

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\  
 Data File : VU028132.D  
 Acq On : 14 Nov 2018 19:46  
 Operator : MD/SY  
 Sample : J5948-12  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 15 04:30:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111418WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Nov 15 04:25:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 139783   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 130558   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 60189    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

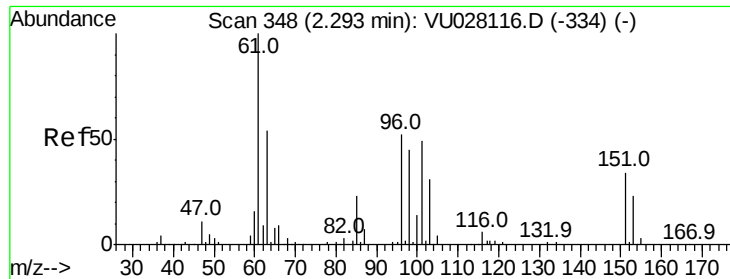
|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 50560    | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.20%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 42652    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 72008    | 3.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 66.40%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 171691   | 51.03    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.06% |
| 24) Chloroform-d               | 4.65   | 84    | 88231    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 51178    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.40%  |
| 32) Benzene-d6                 | 5.34   | 84    | 180410   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 66364    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.00%  |
| 41) Toluene-d8                 | 7.57   | 98    | 157806   | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.40%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 20674    | 4.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.40%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 135301   | 49.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.06%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 44421    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 54025    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.00%  |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101  | 572      | 0.062 | ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.28  | 96   | 486      | 0.052 | ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43   | 1185     | 0.523 | ug/L   | 97     |
| 27) 1,2-Dichloroethane         | 5.34  | 62   | 954      | 0.078 | ug/L # | 76     |
| 35) Methylcyclohexane          | 6.33  | 83   | 12994    | 0.695 | ug/L # | 16     |
| 37) 1,2-Dichloropropane        | 6.33  | 63   | 7107     | 0.584 | ug/L # | 92     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75   | 1444     | 0.088 | ug/L # | 71     |
| 47) Tetrachloroethene          | 8.23  | 164  | 1593     | 0.180 | ug/L   | 92     |
| 48) 2-Hexanone                 | 8.31  | 43   | 17519    | 2.940 | ug/L # | 67     |
| 49) Dibromochloromethane       | 8.23  | 129  | 1674     | 0.214 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75   | 8753     | 1.281 | ug/L   | 94     |

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





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.062 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.02 min

Lab File: VU028132.D

Acq: 14 Nov 2018 19:46

Instrument :

MSVOA\_U

ClientSampled :

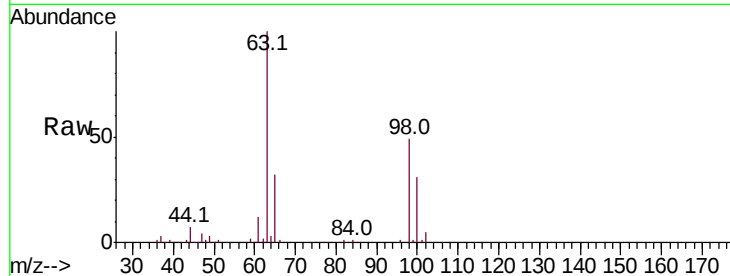
Tot Ion:101 Resp: 572

Ion Ratio Lower Upper

101 100

85 0.0 37.6 56.4#

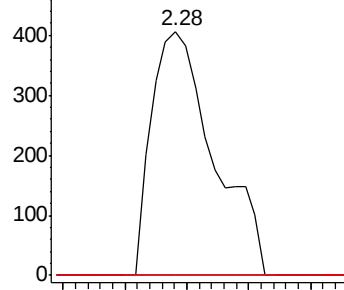
151 0.0 58.2 87.2#



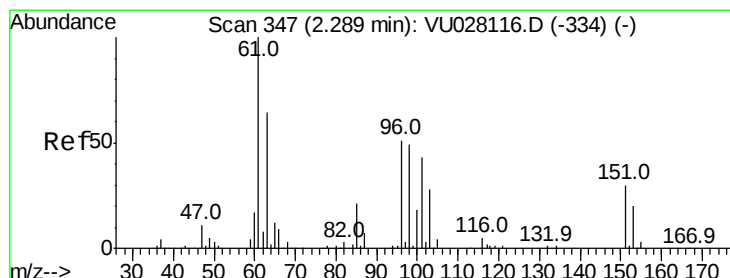
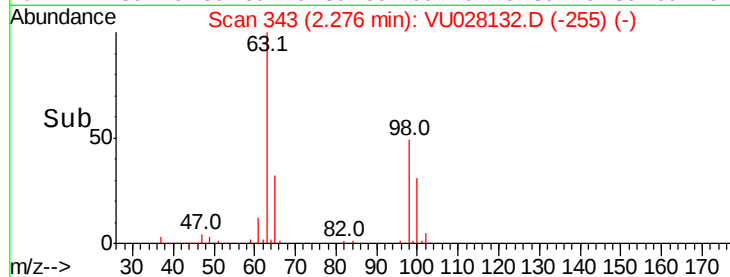
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



Time-->



#12

1,1-Dichloroethene

Concen: 0.052 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU028132.D

Acq: 14 Nov 2018 19:46

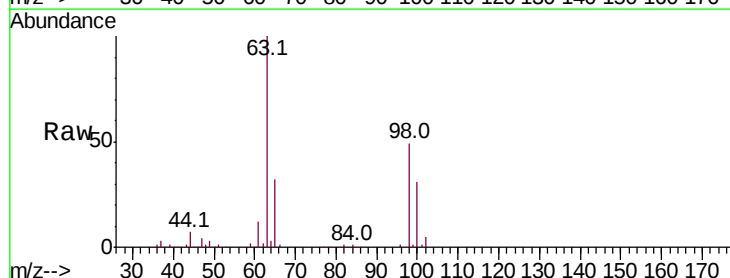
Tgt Ion: 96 Resp: 486

Ion Ratio Lower Upper

96 100

61 2033.3 134.8 250.3#

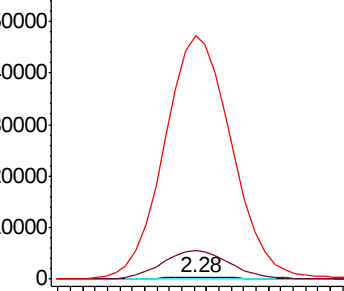
63 17304.0 100.1 185.9#



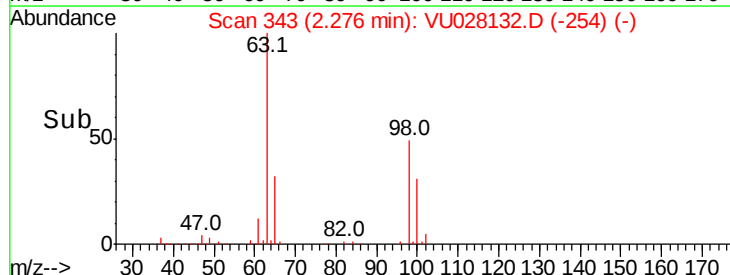
Abundance Ion 96.00 (95.70 to 96.70): VU0

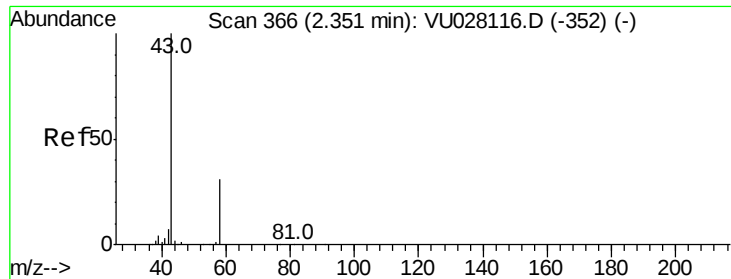
Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



Time-->





#13

Acetone

Concen: 0.523 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.03 min

Lab File: VU028132.D

Acq: 14 Nov 2018 19:46

Instrument :

MSVOA\_U

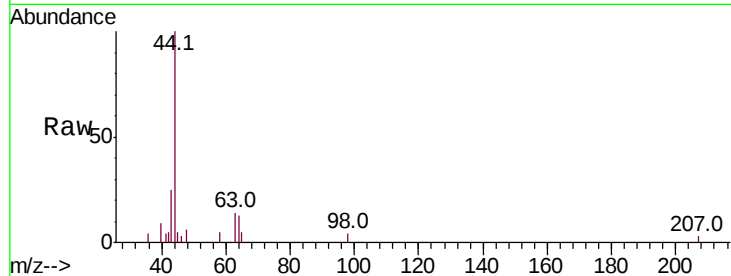
ClientSampleId :

Tot Ion: 43 Resp: 1185

Ion Ratio Lower Upper

43 100

58 28.9 0.0 61.6



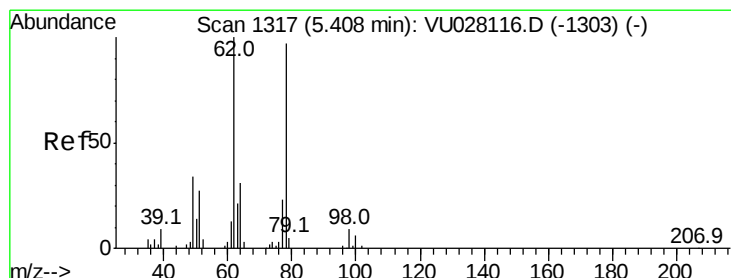
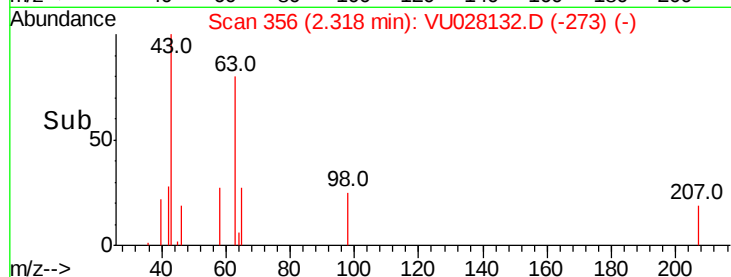
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.32

2.35

Time-->



#27

1,2-Dichloroethane

Concen: 0.078 ug/L

RT: 5.34 min Scan# 1296

Delta R.T. -0.07 min

Lab File: VU028132.D

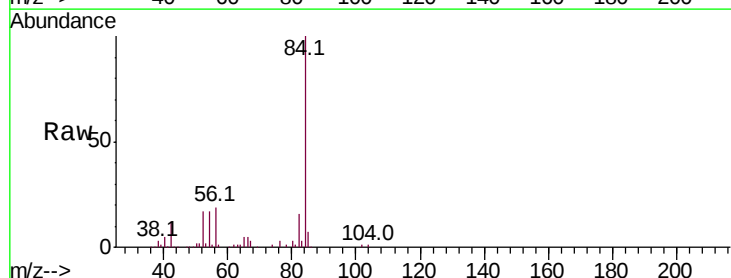
Acq: 14 Nov 2018 19:46

Tgt Ion: 62 Resp: 954

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.4#



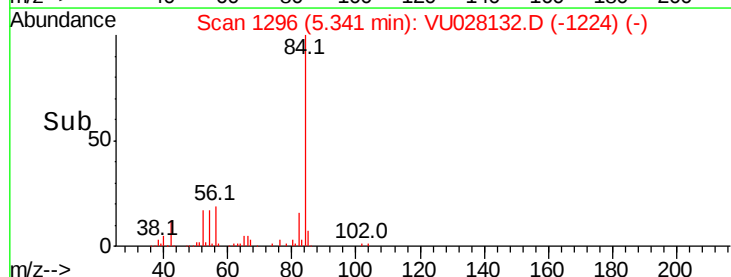
Abundance Ion 62.00 (61.70 to 62.70): VU0

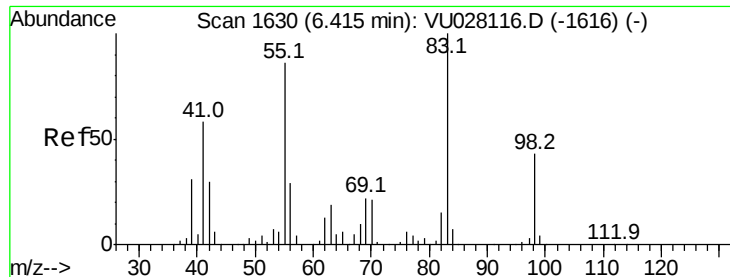
Ion 98.05 (97.75 to 98.75): VU0

5.34

5.35

Time-->

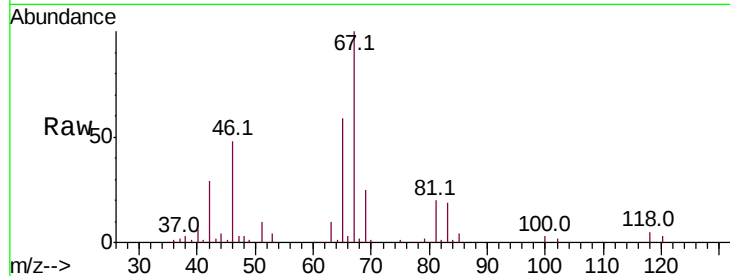




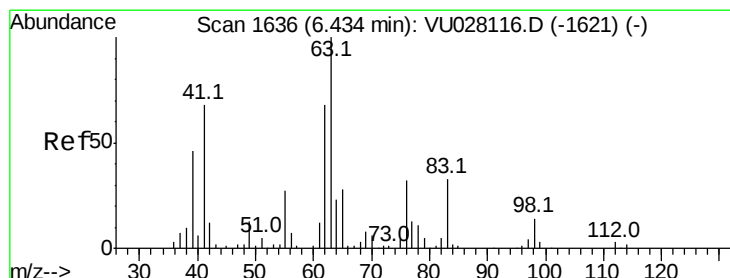
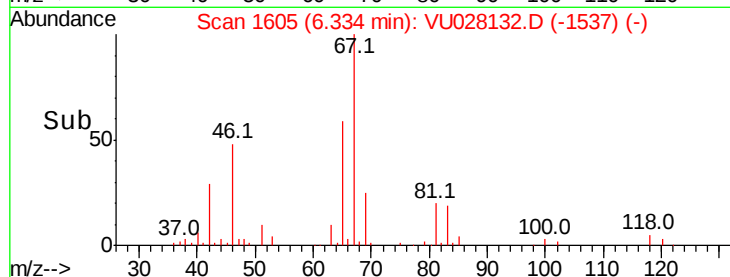
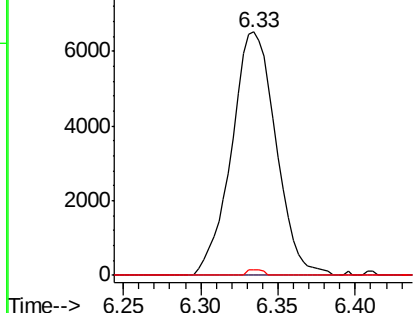
#35  
Methvlcvclohexane  
Concen: 0.695 ug/L  
RT: 6.33 min Scan# 1605  
Delta R.T. -0.08 min  
Lab File: VU028132.D  
Acq: 14 Nov 2018 19:46

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 83 Resp: 12994  
Ion Ratio Lower Upper  
83 100  
55 0.0 69.0 103.4#  
98 0.8 33.3 49.9#

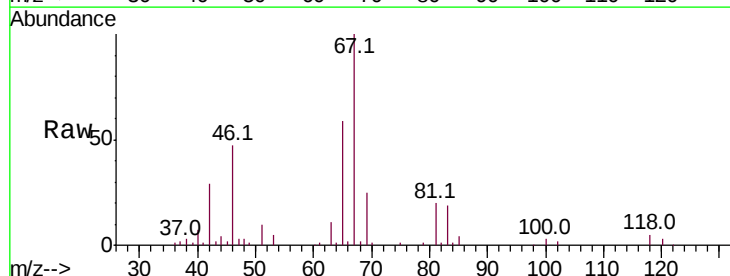


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

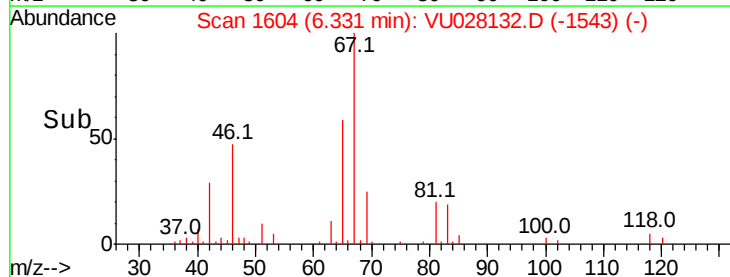
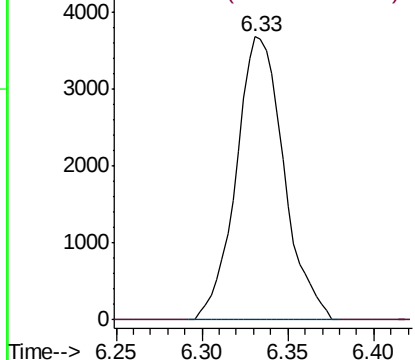


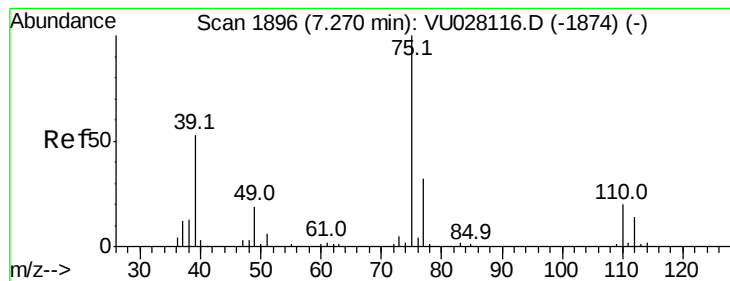
#37  
1,2-Dichloropropane  
Concen: 0.584 ug/L  
RT: 6.33 min Scan# 1604  
Delta R.T. -0.10 min  
Lab File: VU028132.D  
Acq: 14 Nov 2018 19:46

Tgt Ion: 63 Resp: 7107  
Ion Ratio Lower Upper  
63 100  
112 0.3 2.2 3.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V



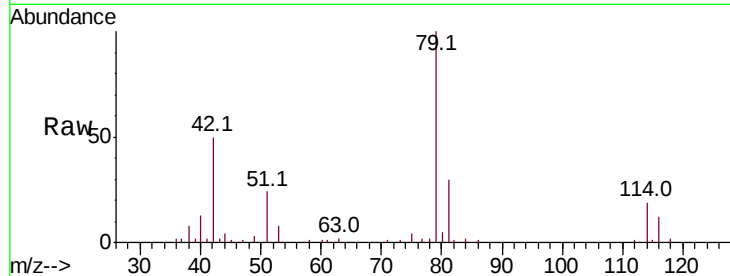


#39

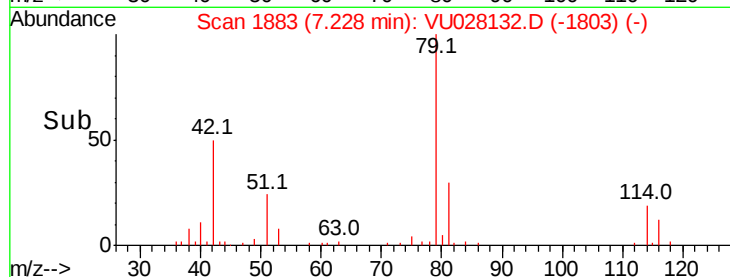
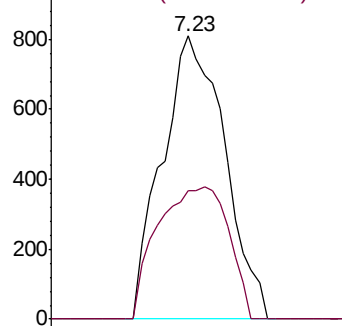
cis-1,3-Dichloropropene  
Concen: 0.088 ug/L  
RT: 7.23 min Scan# 1883  
Delta R.T. -0.04 min  
Lab File: VU028132.D  
Acq: 14 Nov 2018 19:46

Instrument :  
MSVOA\_U  
ClientSampled :

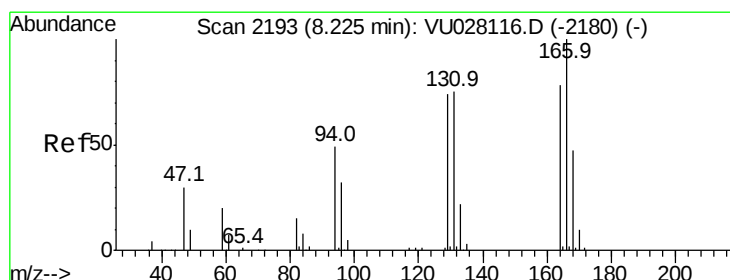
Tot Ion: 75 Resp: 1444  
Ion Ratio Lower Upper  
75 100  
77 45.5 20.9 38.9#



Abundance Ion 75.05 (74.75 to 75.75): VU0  
Ion 77.05 (76.75 to 77.75): VU0



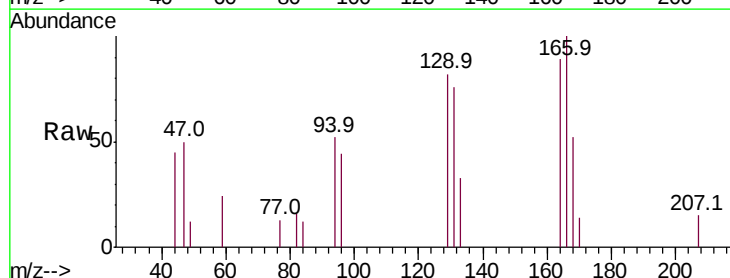
Time-->



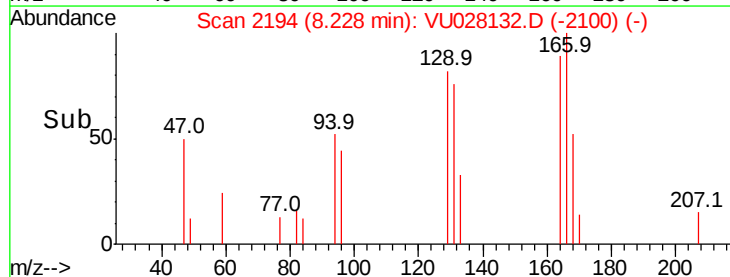
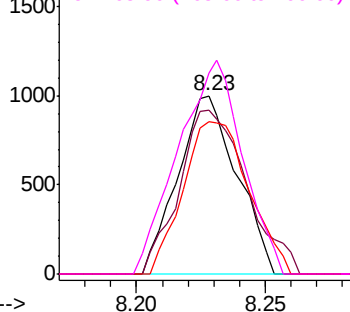
#47

Tetrachloroethene  
Concen: 0.180 ug/L  
RT: 8.23 min Scan# 2194  
Delta R.T. 0.00 min  
Lab File: VU028132.D  
Acq: 14 Nov 2018 19:46

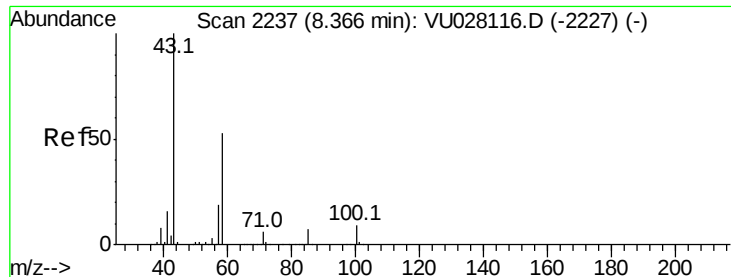
Tgt Ion:164 Resp: 1593  
Ion Ratio Lower Upper  
164 100  
129 91.8 69.7 129.4  
131 85.4 64.0 118.8  
166 112.4 86.4 160.4



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



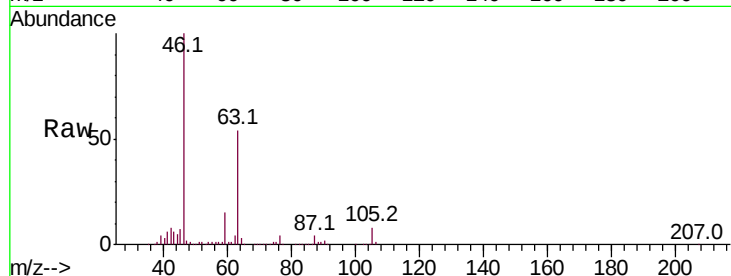
Time-->



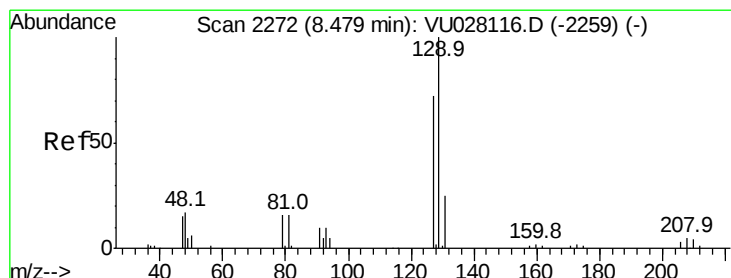
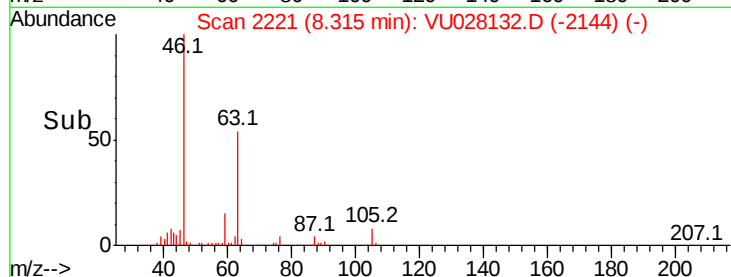
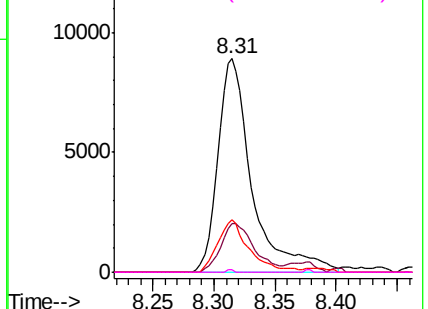
#48  
2-Hexanone  
Concen: 2.940 ug/L  
RT: 8.31 min Scan# 2221  
Delta R.T. -0.05 min  
Lab File: VU028132.D  
Acq: 14 Nov 2018 19:46

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 17519  
Ion Ratio Lower Upper  
43 100  
58 22.4 41.7 62.5#  
57 21.8 14.0 21.0#  
100 0.3 7.2 10.8#

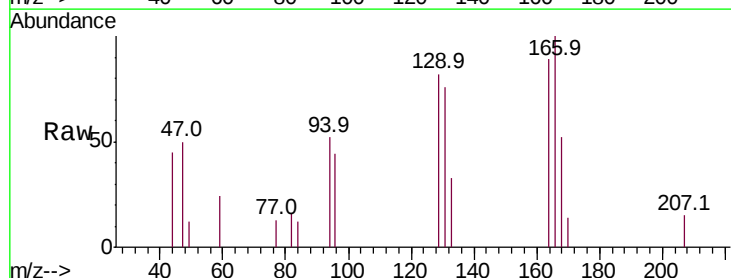


Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0

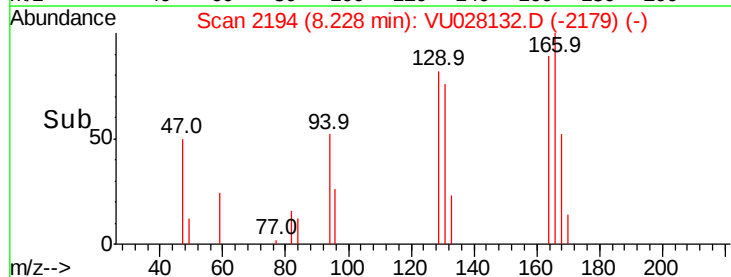
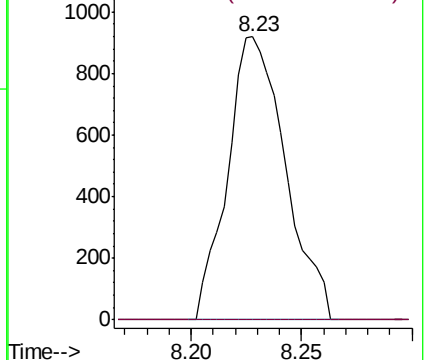


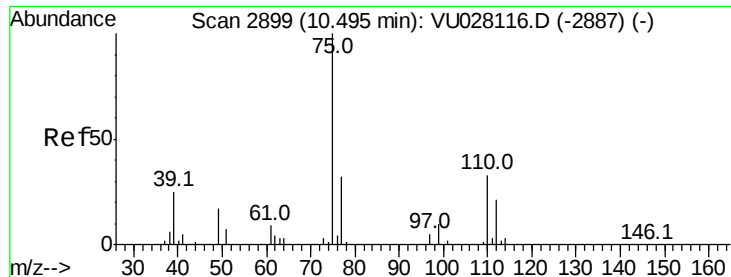
#49  
Dibromochloromethane  
Concen: 0.214 ug/L  
RT: 8.23 min Scan# 2194  
Delta R.T. -0.25 min  
Lab File: VU028132.D  
Acq: 14 Nov 2018 19:46

Tgt Ion: 129 Resp: 1674  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 1.281 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028132.D

Acq: 14 Nov 2018 19:46

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 8753

Ion Ratio Lower Upper

75 100

77 35.1 25.4 38.0

