

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111418\  
 Data File : VU028118.D  
 Acq On : 14 Nov 2018 14:04  
 Operator : MD/SY  
 Sample : J5944-05  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 15 04:28:51 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  | 161109   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 148028   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 67515    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 63269    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.60%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 51109    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 91362    | 3.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 73.20%  |
| 20) 2-Butanone-d5              | 4.22   | 46    | 208951   | 53.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.78% |
| 24) Chloroform-d               | 4.65   | 84    | 101073   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 57528    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.00%  |
| 32) Benzene-d6                 | 5.34   | 84    | 215254   | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.20% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 77147    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.40% |
| 41) Toluene-d8                 | 7.57   | 98    | 188721   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.40%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 26376    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.40%  |
| 46) 2-Hexanone-d5              | 8.32   | 63    | 162101   | 52.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 54387    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 63201    | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.20% |

## Target Compounds

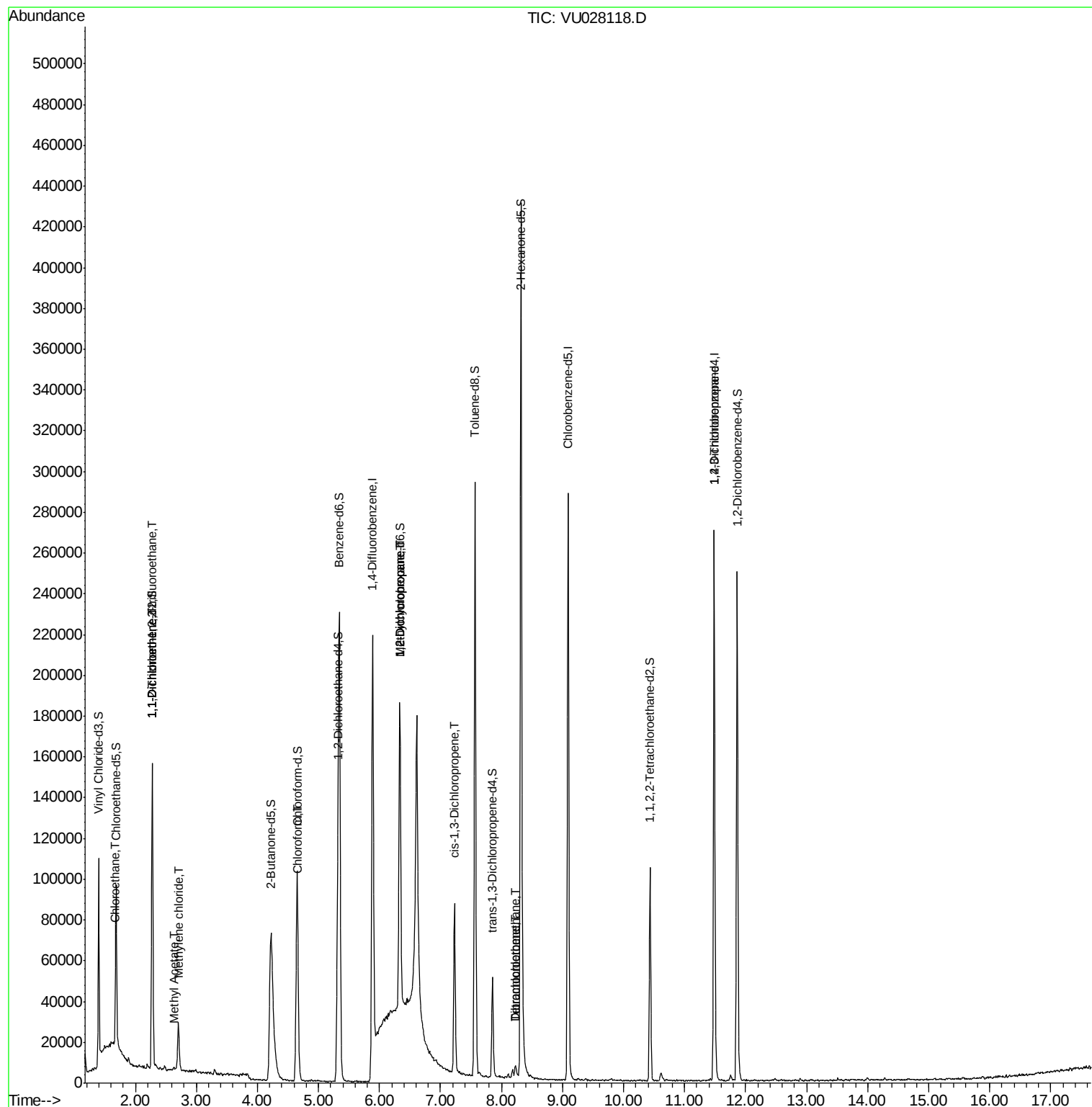
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 8) Chloroethane                | 1.67  | 64  | 996   | 0.096 ug/L # | 49     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101 | 666   | 0.063 ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 598   | 0.056 ug/L # | 1      |
| 15) Methyl Acetate             | 2.64  | 43  | 760   | 0.109 ug/L # | 58     |
| 16) Methylene chloride         | 2.71  | 84  | 9336  | 0.738 ug/L   | 90     |
| 25) Chloroform                 | 4.67  | 83  | 3865  | 0.180 ug/L   | 93     |
| 35) Methylcyclohexane          | 6.33  | 83  | 15349 | 0.724 ug/L # | 16     |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 8124  | 0.589 ug/L # | 92     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 2059  | 0.110 ug/L # | 62     |
| 47) Tetrachloroethene          | 8.23  | 164 | 1164  | 0.116 ug/L # | 70     |
| 49) Dibromochloromethane       | 8.22  | 129 | 1165  | 0.131 ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 9983  | 1.289 ug/L   | 98     |

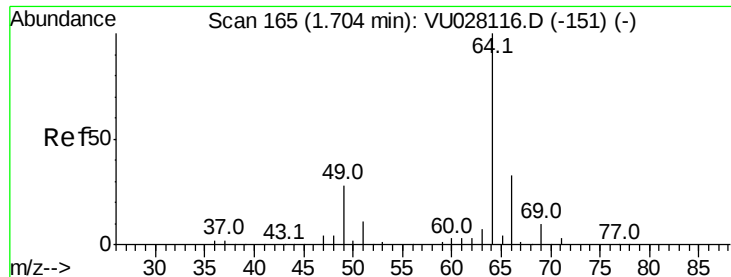
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU111418\  
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Sample : J5944-05  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Nov 15 04:28:51 2018  
Quant Method : Z:\V0ASRV\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





#8

Chloroethane

Concen: 0.096 ug/L

RT: 1.67 min Scan# 153

Delta R.T. -0.04 min

Lab File: VU028118.D

Acq: 14 Nov 2018 14:04

Instrument :

MSVOA\_U

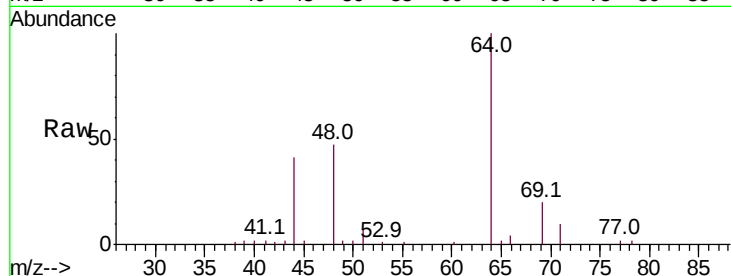
ClientSampled :

Tot Ion: 64 Resp: 996

Ion Ratio Lower Upper

64 100

66 4.4 23.1 42.9#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.67

10000

8000

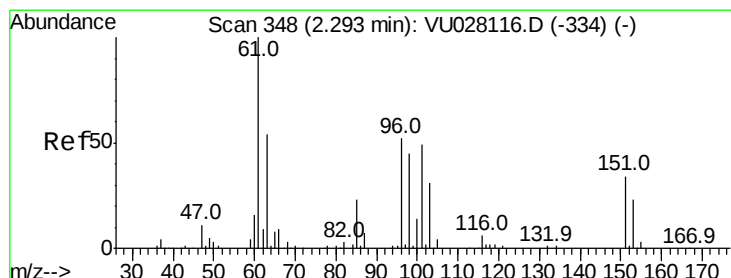
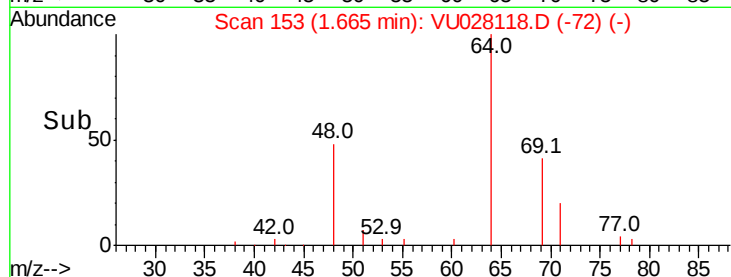
6000

4000

2000

0

Time--> 1.64 1.65 1.66 1.67 1.68



#10

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

Concen: 0.063 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.02 min

Lab File: VU028118.D

Acq: 14 Nov 2018 14:04

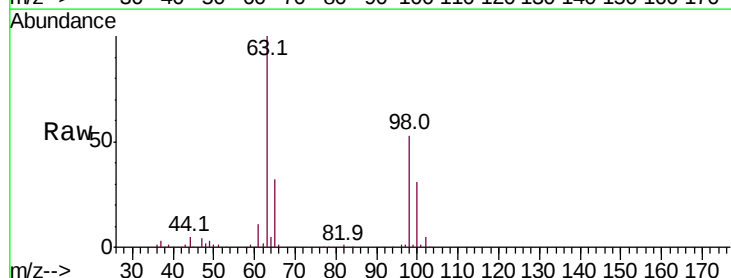
Tgt Ion: 101 Resp: 666

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

2.28

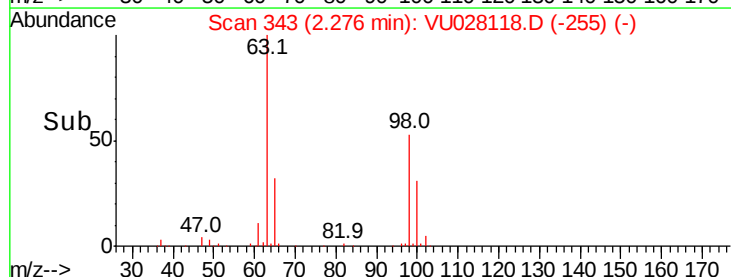
600

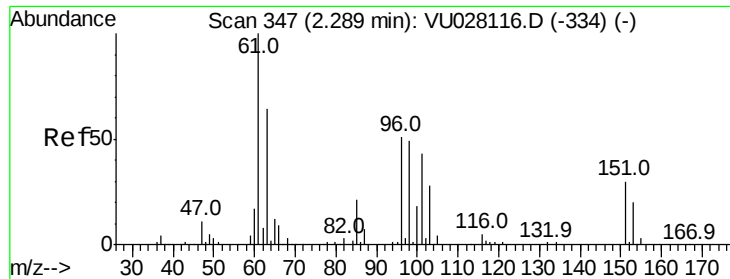
400

200

0

Time--> 2.24 2.26 2.28 2.30 2.32





#12

1,1-Dichloroethene

Concen: 0.056 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028118.D

Acq: 14 Nov 2018 14:04

Instrument :  
MSVOA\_U  
ClientSampled :

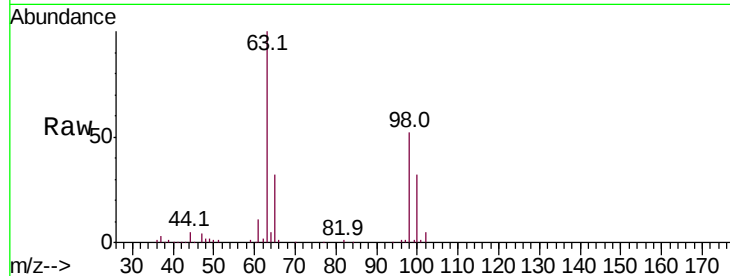
Tot Ion: 96 Resp: 598

Ion Ratio Lower Upper

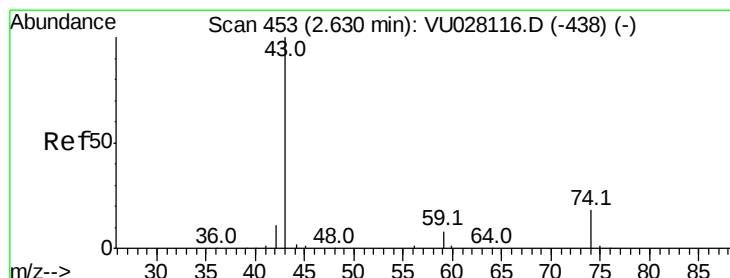
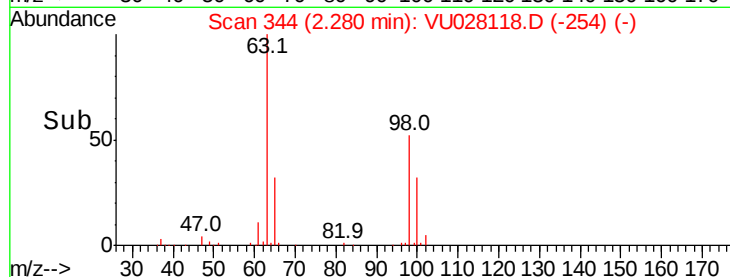
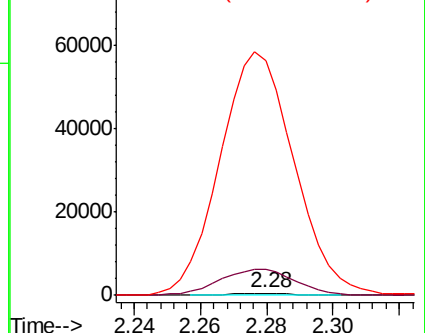
96 100

61 1346.0 134.8 250.3#

63 12200.4 100.1 185.9#



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



#15

Methyl Acetate

Concen: 0.109 ug/L

RT: 2.64 min Scan# 456

Delta R.T. 0.01 min

Lab File: VU028118.D

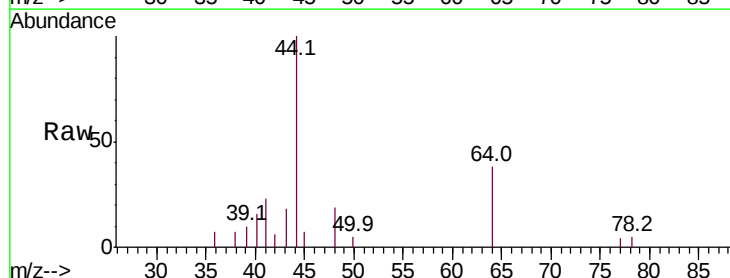
Acq: 14 Nov 2018 14:04

Tgt Ion: 43 Resp: 760

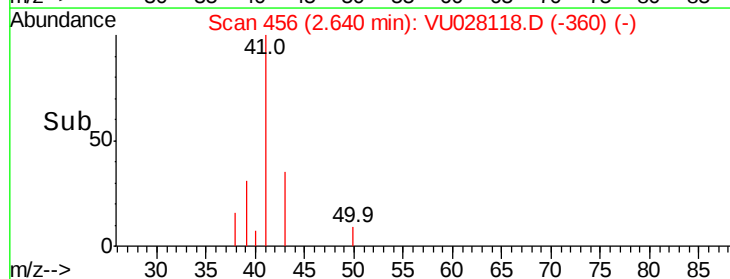
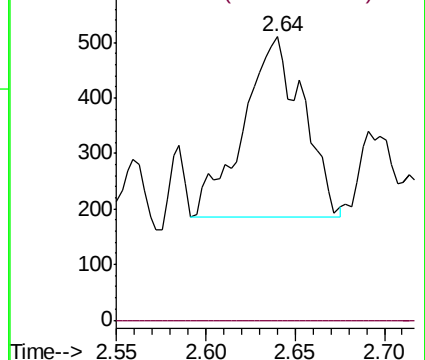
Ion Ratio Lower Upper

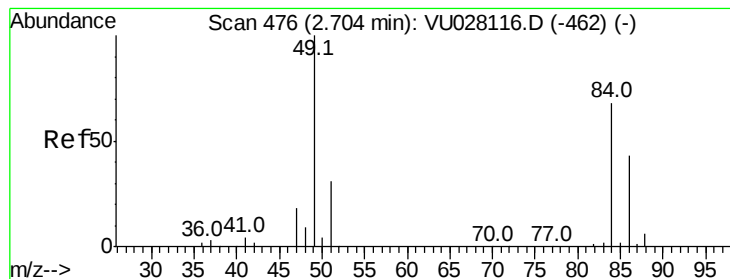
43 100

74 0.0 14.9 22.3#



Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 74.05 (73.75 to 74.75): VU0





#16

Methvlene chloride

Concen: 0.738 ug/L

RT: 2.71 min Scan# 477

Delta R.T. 0.00 min

Lab File: VU028118.D

Acq: 14 Nov 2018 14:04

Instrument :

MSVOA\_U

ClientSampleId :

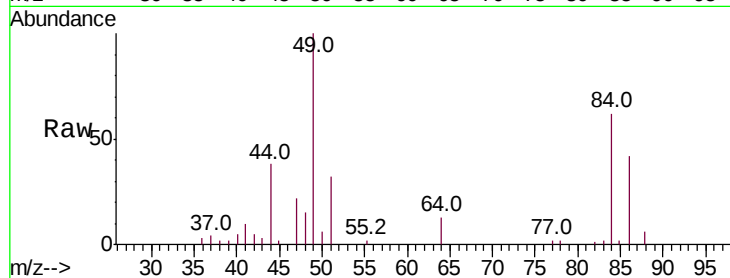
Tot Ion: 84 Resp: 9336

Ion Ratio Lower Upper

84 100

86 68.1 44.6 82.8

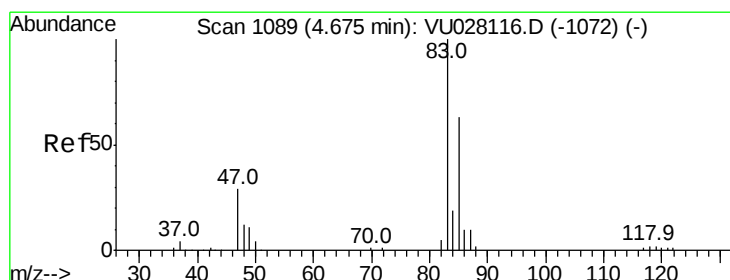
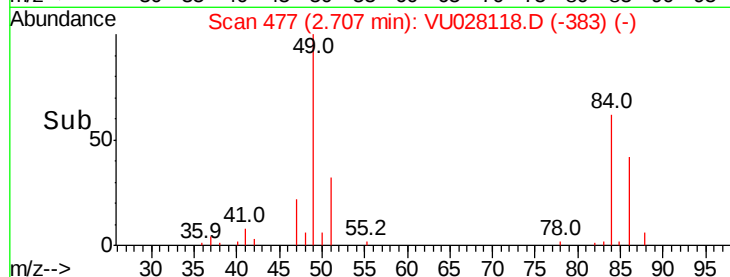
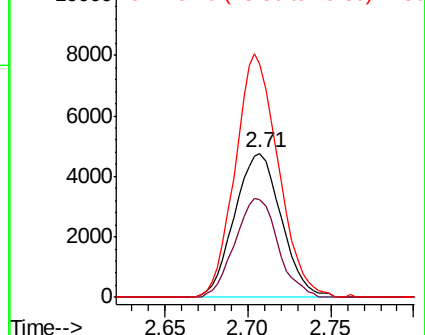
49 161.6 102.5 190.3



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



#25

Chloroform

Concen: 0.180 ug/L

RT: 4.67 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VU028118.D

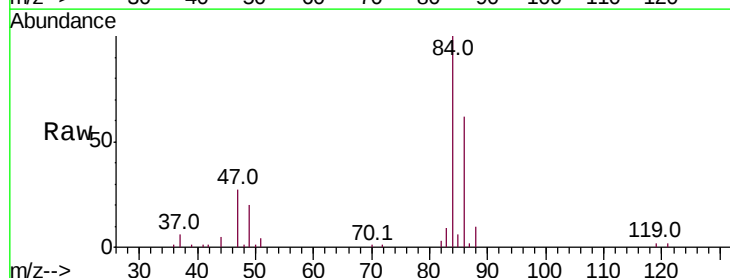
Acq: 14 Nov 2018 14:04

Tgt Ion: 83 Resp: 3865

Ion Ratio Lower Upper

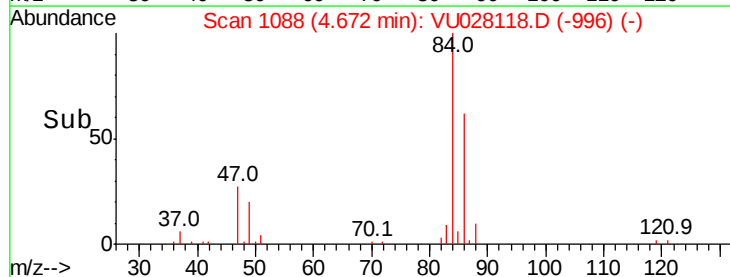
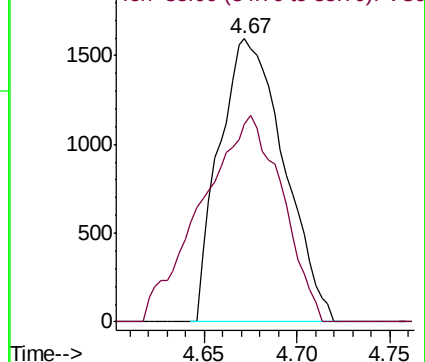
83 100

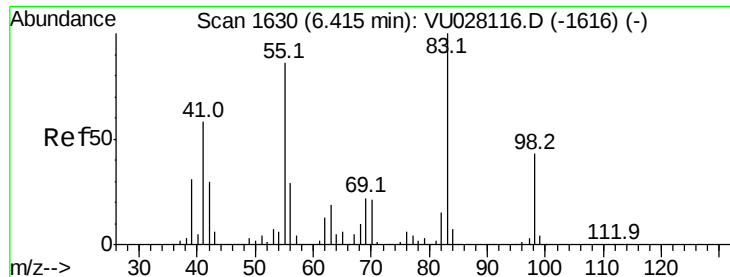
85 69.8 45.0 83.6



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0





#35

Methylcyclohexane

Concen: 0.724 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.08 min

Lab File: VU028118.D

Acq: 14 Nov 2018 14:04

Instrument :  
MSVOA\_U  
ClientSampled :

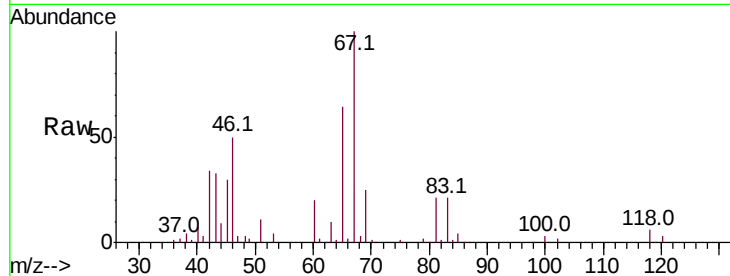
Tot Ion: 83 Resp: 15349

Ion Ratio Lower Upper

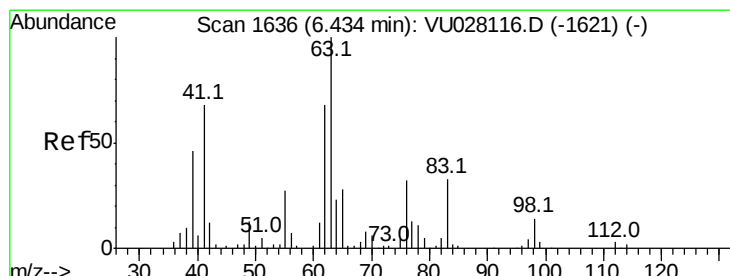
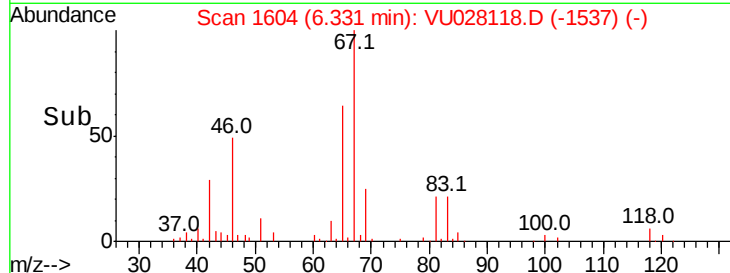
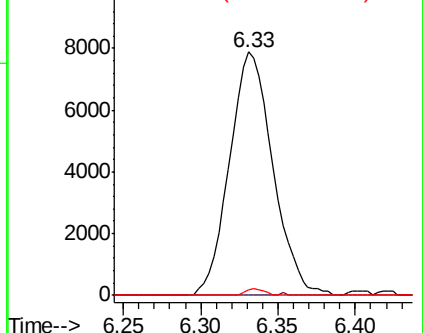
83 100

55 0.1 69.0 103.4#

98 1.2 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: 0.589 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.10 min

Lab File: VU028118.D

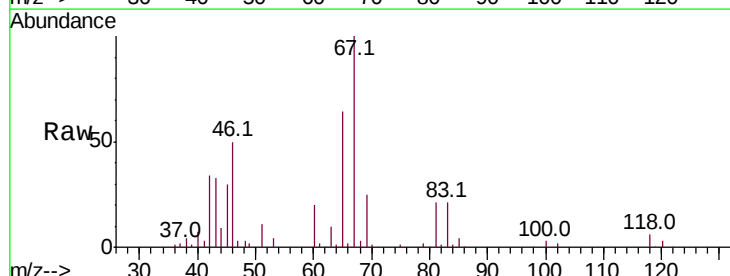
Acq: 14 Nov 2018 14:04

Tgt Ion: 63 Resp: 8124

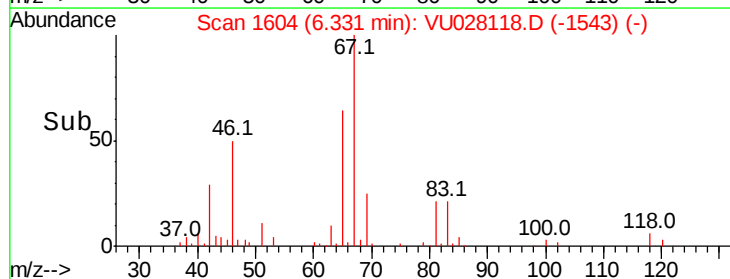
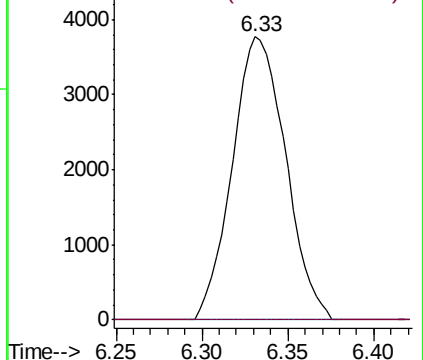
Ion Ratio Lower Upper

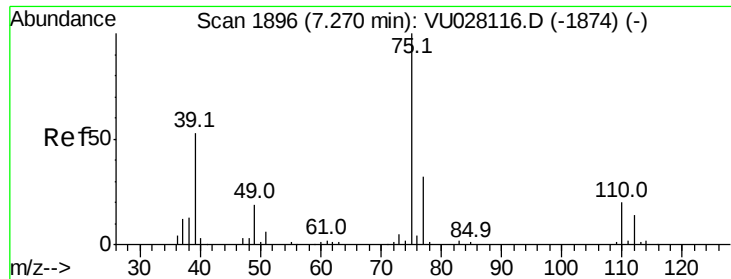
63 100

112 0.0 2.2 3.4#



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

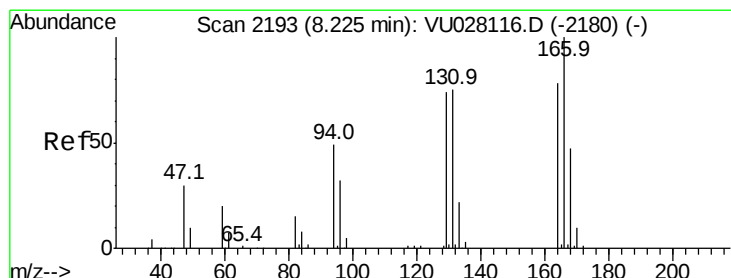
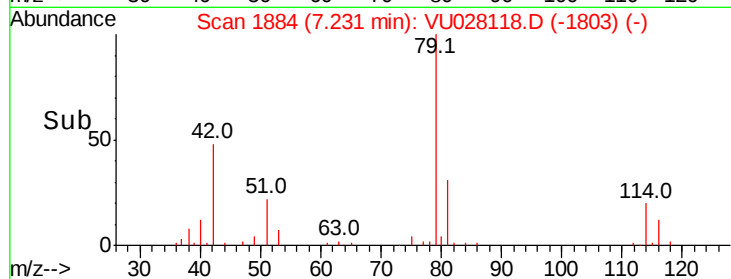
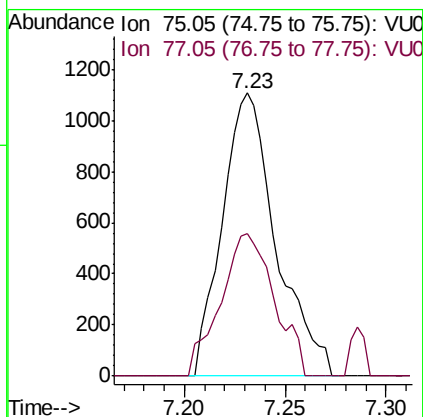
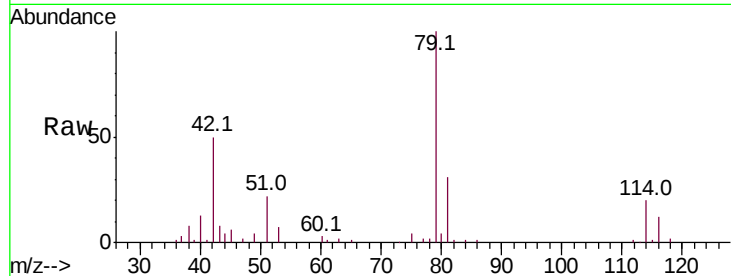




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.110 ug/L  
 RT: 7.23 min Scan# 1884  
 Delta R.T. -0.04 min  
 Lab File: VU028118.D  
 Acq: 14 Nov 2018 14:04

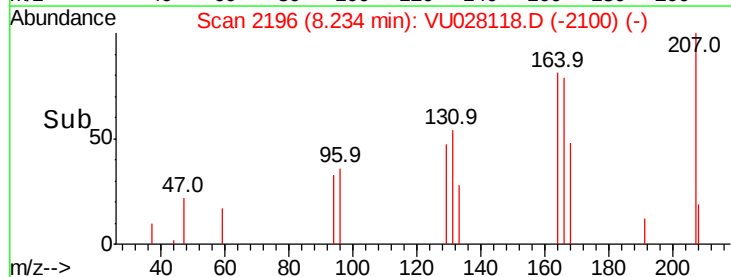
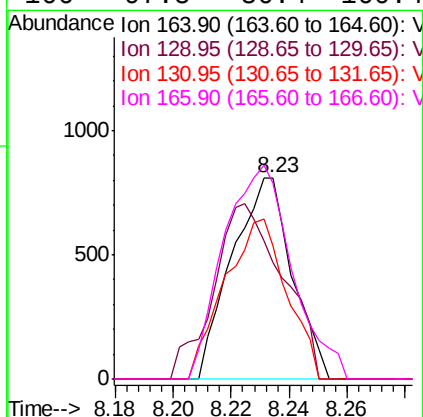
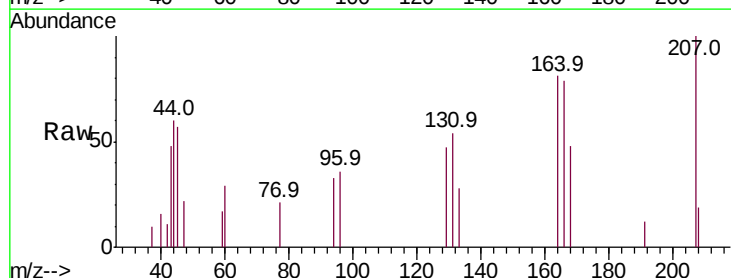
Instrument :  
 MSVOA\_U  
 ClientSampled :

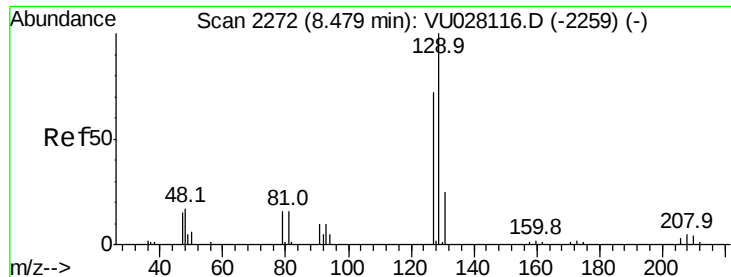
Tot Ion: 75 Resp: 2059  
 Ion Ratio Lower Upper  
 75 100  
 77 50.3 20.9 38.9#



#47  
 Tetrachloroethene  
 Concen: 0.116 ug/L  
 RT: 8.23 min Scan# 2196  
 Delta R.T. 0.01 min  
 Lab File: VU028118.D  
 Acq: 14 Nov 2018 14:04

Tgt Ion: 164 Resp: 1164  
 Ion Ratio Lower Upper  
 164 100  
 129 58.0 69.7 129.4#  
 131 66.2 64.0 118.8  
 166 97.5 86.4 160.4





#49

Dibromochloromethane

Concen: 0.131 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028118.D

Acq: 14 Nov 2018 14:04

Instrument :

MSVOA\_U

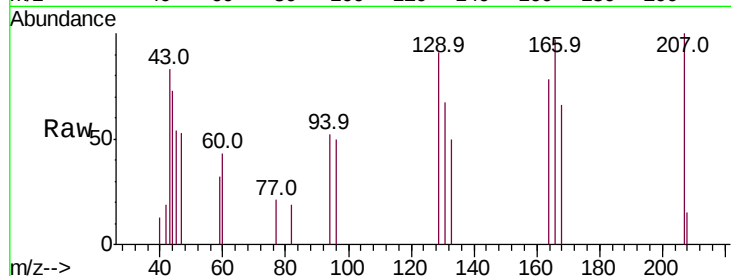
ClientSampleId :

Tot Ion:129 Resp: 1165

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

8.22

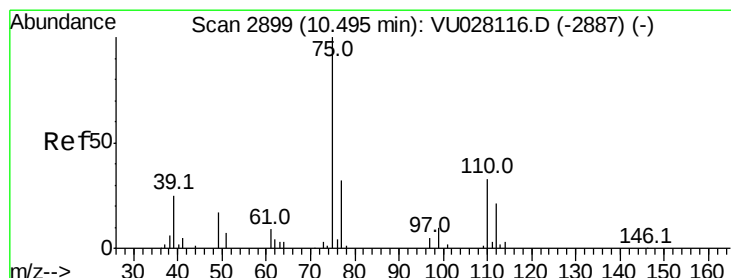
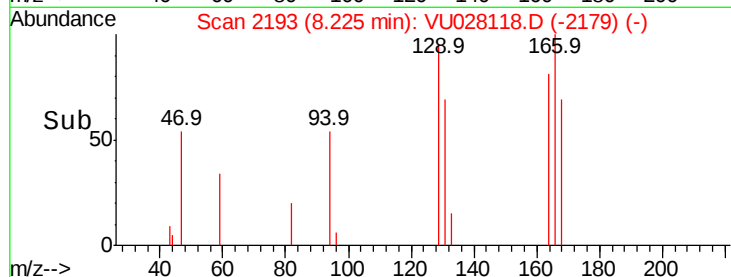
600

400

200

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 1.289 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU028118.D

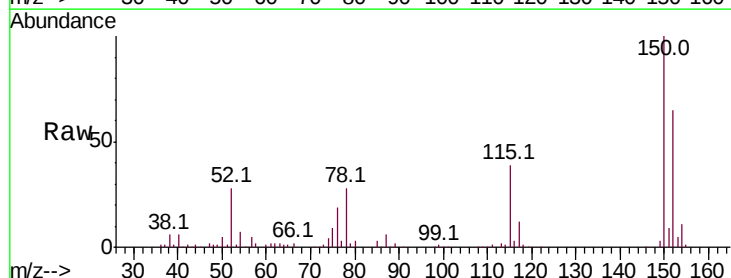
Acq: 14 Nov 2018 14:04

Tgt Ion: 75 Resp: 9983

Ion Ratio Lower Upper

75 100

77 32.7 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.48

6000

4000

2000

0

Time-->

