

Data File : VU029521.D  
Acq On : 18 Feb 2019 11:14  
Operator : JC/SP  
Sample : K1489-03RE  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ESXG1RE

Quant Time: Feb 19 00:22:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Feb 19 00:19:12 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 220941   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 210866   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 112342   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 61713    | 4.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.20%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 58017    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 104423   | 3.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 64.80%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 147645   | 47.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.68%  |
| 24) Chloroform-d               | 4.65   | 84    | 105507   | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 62083    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.80%  |
| 32) Benzene-d6                 | 5.34   | 84    | 245964   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 72800    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.20%  |
| 41) Toluene-d8                 | 7.56   | 98    | 241416   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.60%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 32026    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.80%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 155282   | 50.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.78% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 63506    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 104583   | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.00% |

#### Target Compounds

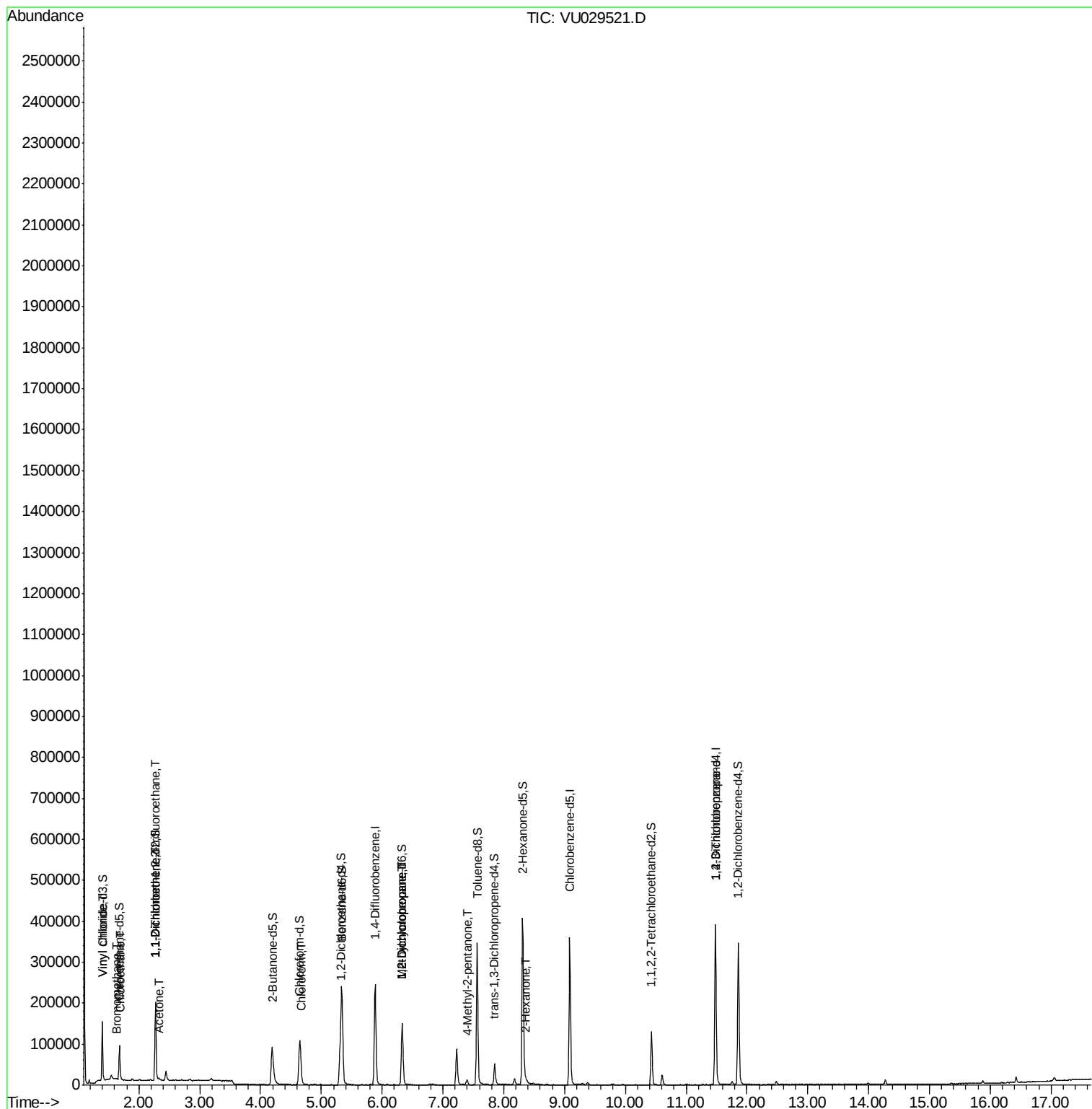
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 5) Vinyl chloride              | 1.40  | 62  | 30107 | 1.415 ug/L # | 77     |
| 6) Bromomethane                | 1.63  | 94  | 606   | 0.049 ug/L   | 93     |
| 8) Chloroethane                | 1.70  | 64  | 2235  | 0.161 ug/L # | 60     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 1383  | 0.072 ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 1420  | 0.078 ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43  | 3239  | 1.155 ug/L   | 82     |
| 25) Chloroform                 | 4.67  | 83  | 8892  | 0.304 ug/L   | 100    |
| 35) Methylcyclohexane          | 6.33  | 83  | 17778 | 0.606 ug/L # | 22     |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 8005  | 0.515 ug/L # | 87     |
| 40) 4-Methyl-2-pentanone       | 7.40  | 43  | 5819  | 0.649 ug/L # | 41     |
| 48) 2-Hexanone                 | 8.37  | 43  | 2654  | 0.406 ug/L # | 83     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 11467 | 1.150 ug/L   | 98     |

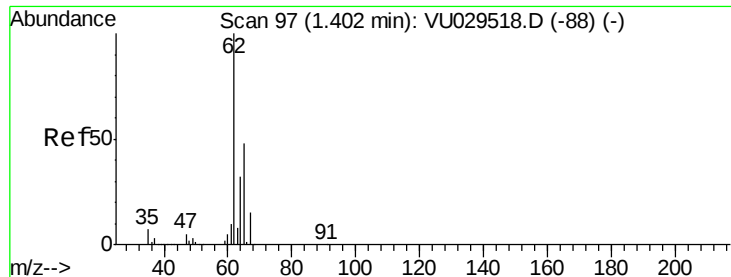
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Feb 19 00:19:12 2019  
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#5

Vinyl chloride

Concen: 1.415 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029521.D

Acq: 18 Feb 2019 11:14

Instrument :

MSVOA\_U

ClientSampleId :

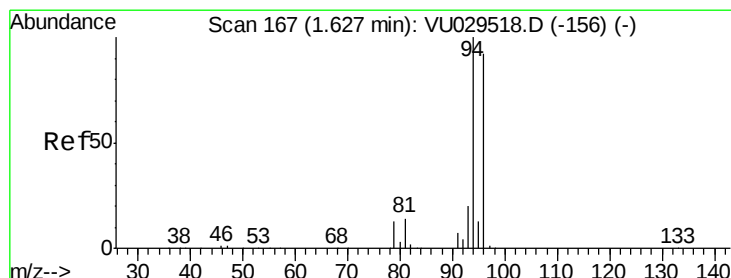
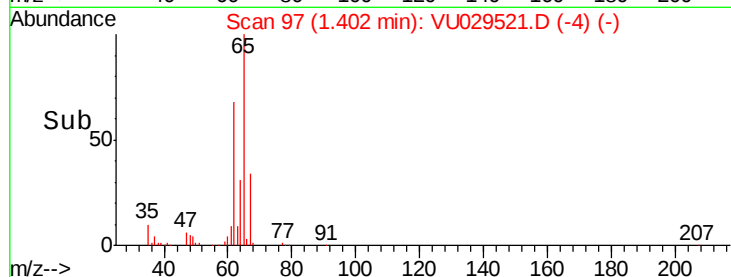
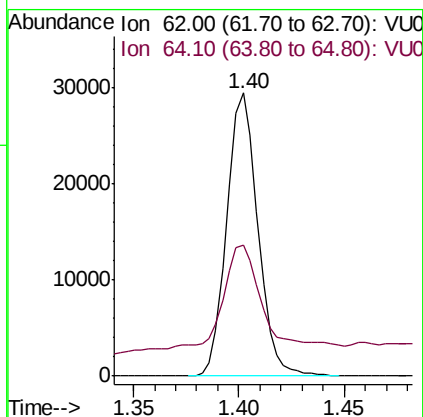
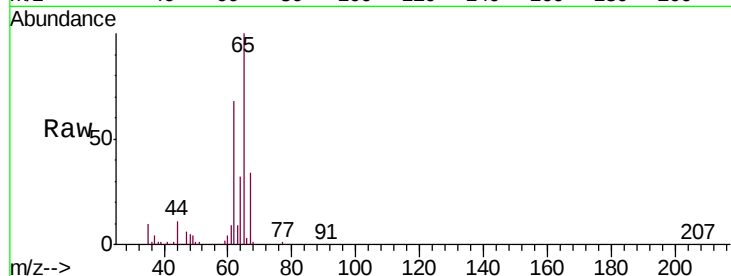
ESXG1RE

Tgt Ion: 62 Resp: 30107

Ion Ratio Lower Upper

62 100

64 46.4 23.5 43.7#



#6

Bromomethane

Concen: 0.049 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU029521.D

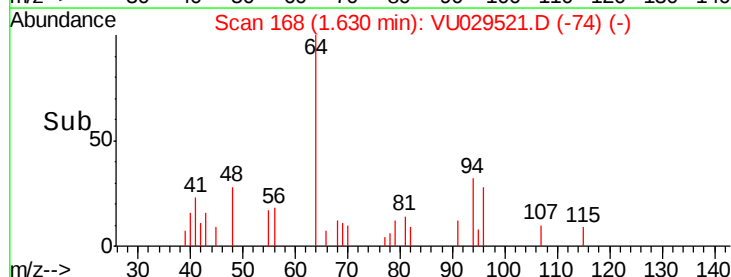
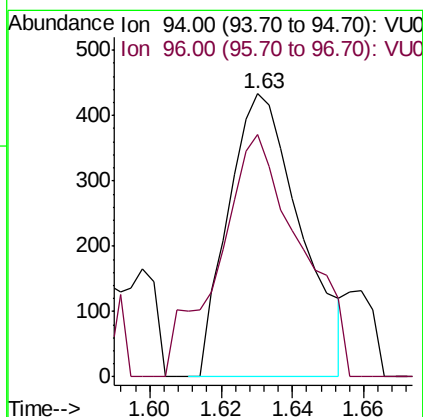
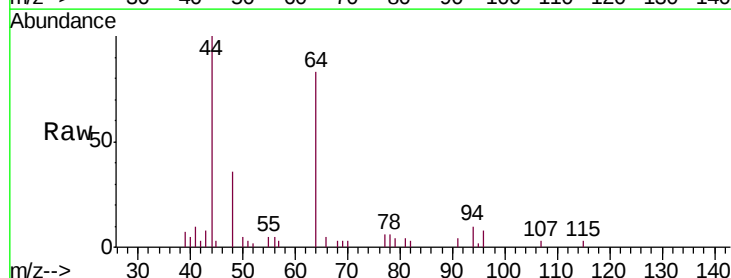
Acq: 18 Feb 2019 11:14

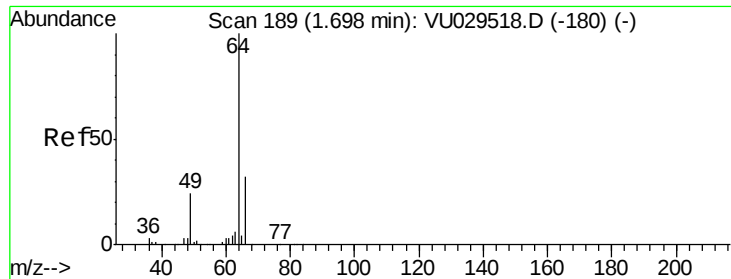
Tgt Ion: 94 Resp: 606

Ion Ratio Lower Upper

94 100

96 85.9 65.2 121.0





#8

Chloroethane

Concen: 0.161 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029521.D

Acq: 18 Feb 2019 11:14

Instrument :

MSVOA\_U

ClientSampleId :

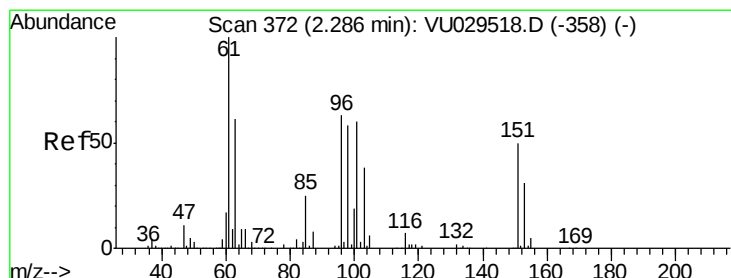
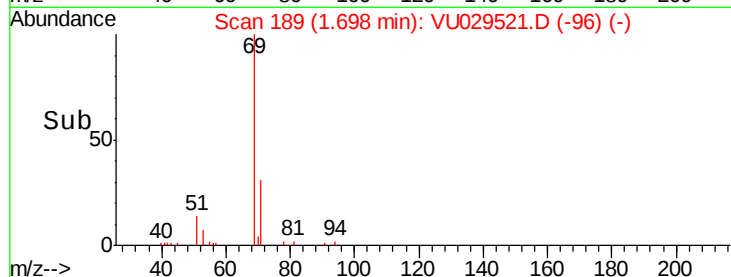
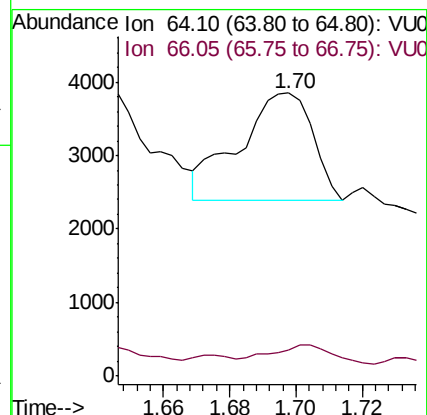
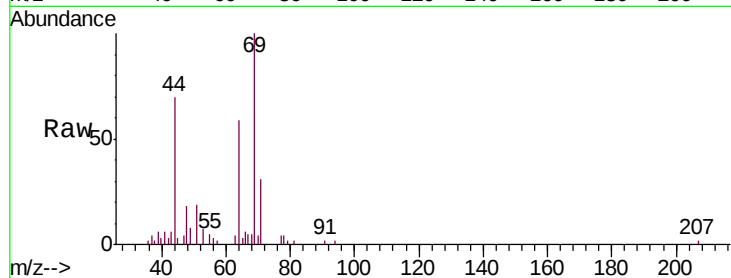
ESXG1RE

Tgt Ion: 64 Resp: 2235

Ion Ratio Lower Upper

64 100

66 9.3 22.0 40.8#



#10

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

Concen: 0.072 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.02 min

Lab File: VU029521.D

Acq: 18 Feb 2019 11:14

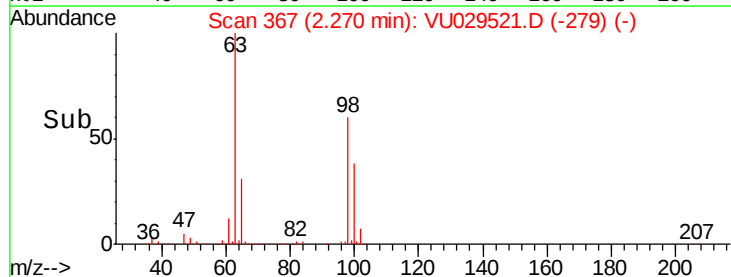
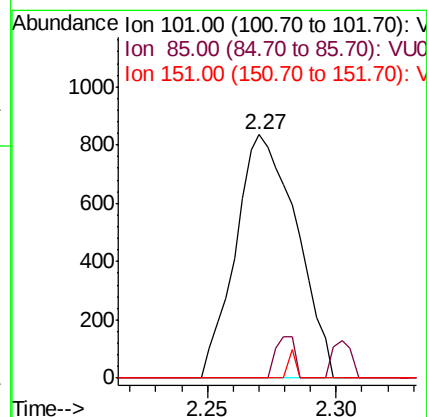
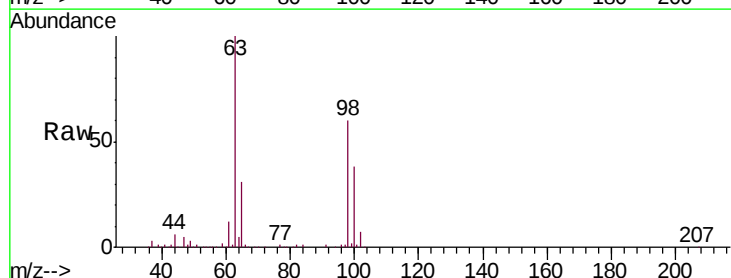
Tgt Ion: 101 Resp: 1383

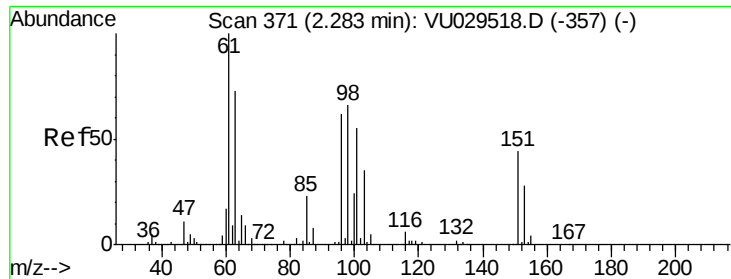
Ion Ratio Lower Upper

101 100

85 5.4 35.1 52.7#

151 1.4 67.0 100.6#





#12

1,1-Dichloroethene

Concen: 0.078 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU029521.D

Acq: 18 Feb 2019 11:14

Instrument :

MSVOA\_U

ClientSampleId :

ESXG1RE

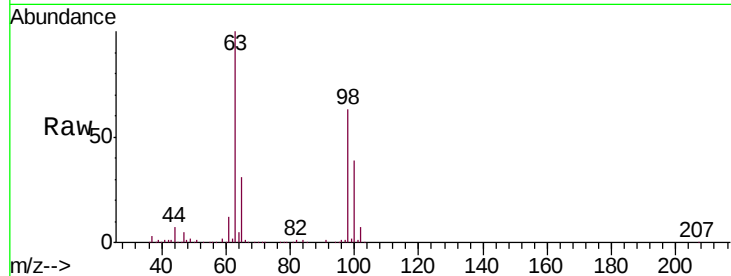
Tgt Ion: 96 Resp: 1420

Ion Ratio Lower Upper

96 100

61 959.1 115.1 213.7#

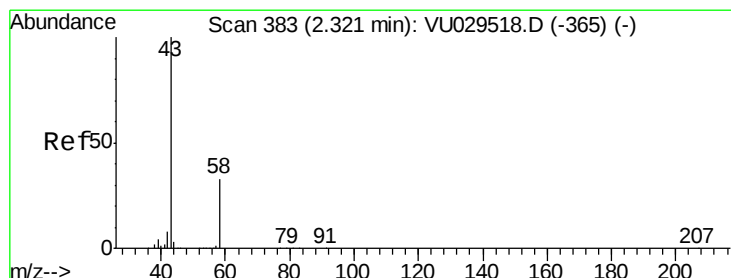
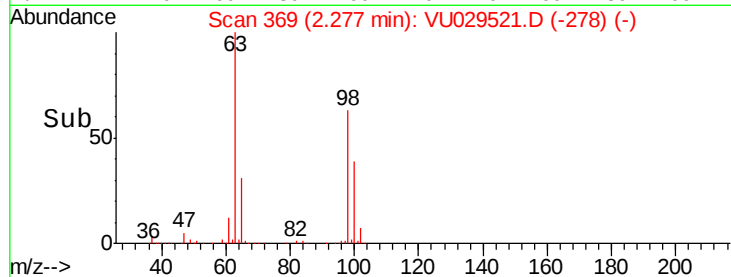
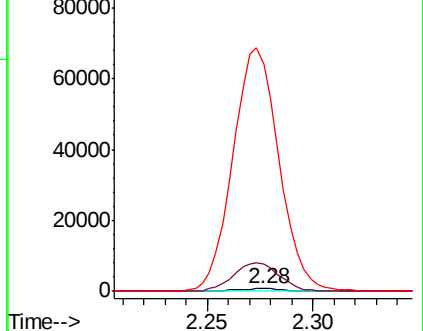
63 7949.4 83.5 155.1#



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



#13

Acetone

Concen: 1.155 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU029521.D

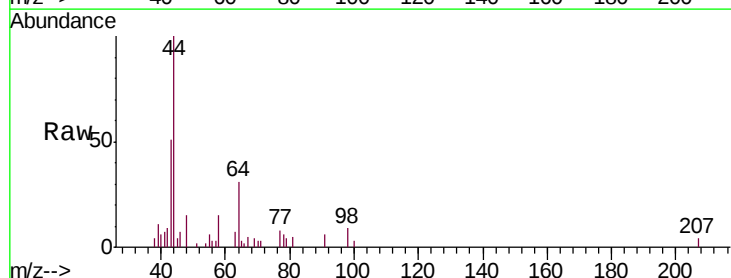
Acq: 18 Feb 2019 11:14

Tgt Ion: 43 Resp: 3239

Ion Ratio Lower Upper

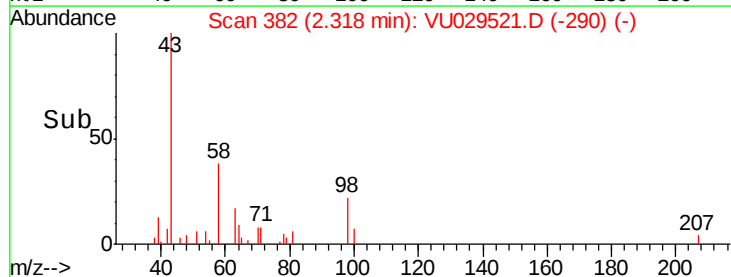
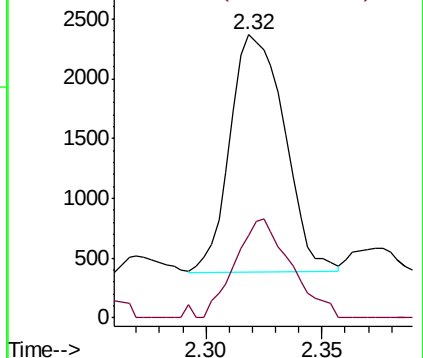
43 100

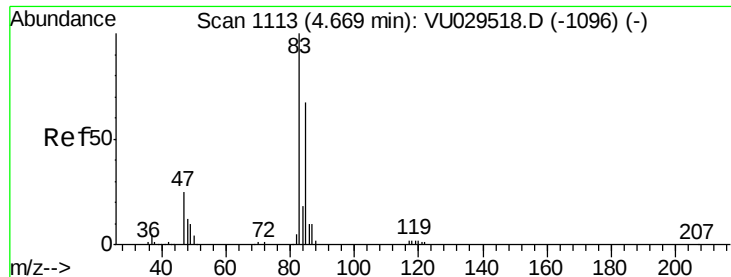
58 42.8 0.0 65.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#25

Chloroform

Concen: 0.304 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029521.D

Acq: 18 Feb 2019 11:14

Instrument :

MSVOA\_U

ClientSampleId :

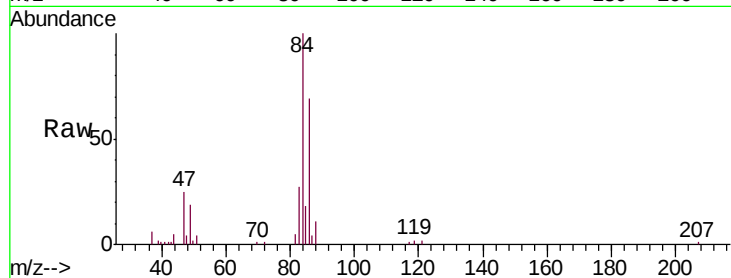
ESXG1RE

Tgt Ion: 83 Resp: 8892

Ion Ratio Lower Upper

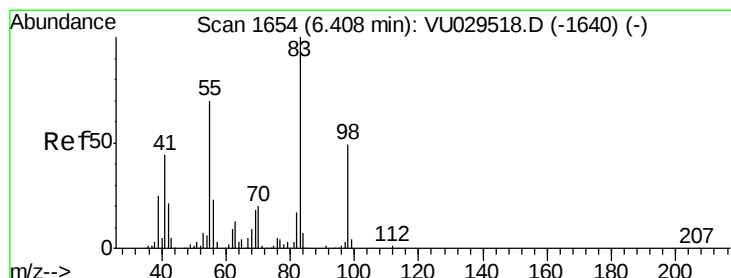
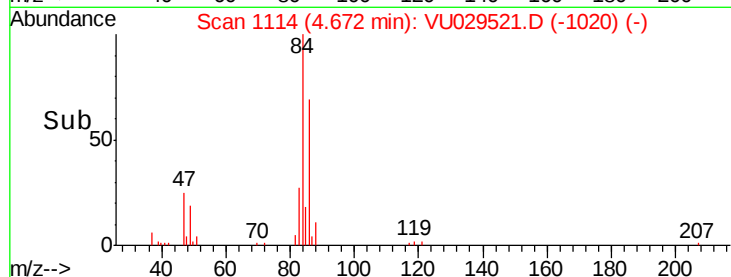
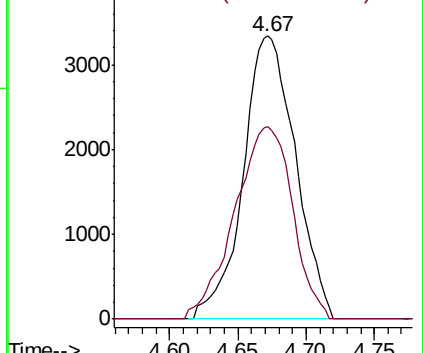
83 100

85 68.2 47.8 88.8



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0



#35

Methylcyclohexane

Concen: 0.606 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU029521.D

Acq: 18 Feb 2019 11:14

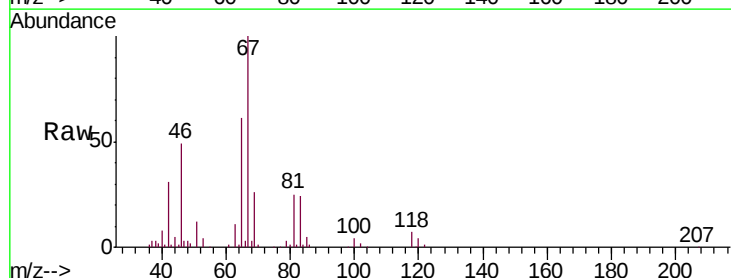
Tgt Ion: 83 Resp: 17778

Ion Ratio Lower Upper

83 100

55 1.0 55.9 83.9#

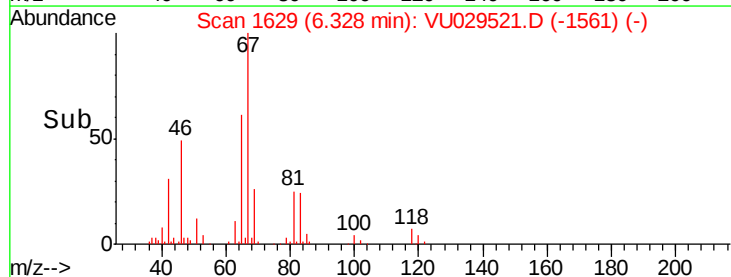
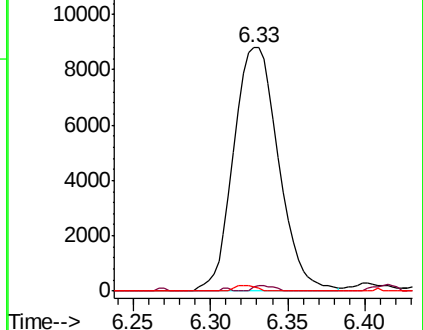
98 1.1 38.6 57.8#

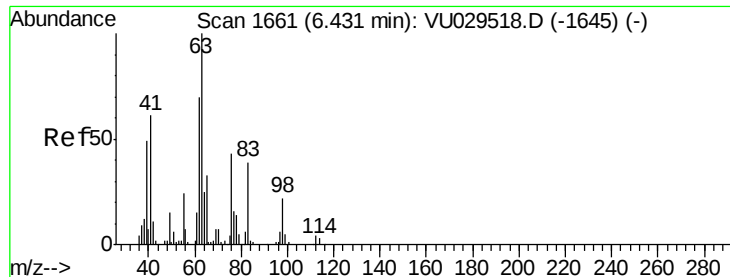


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

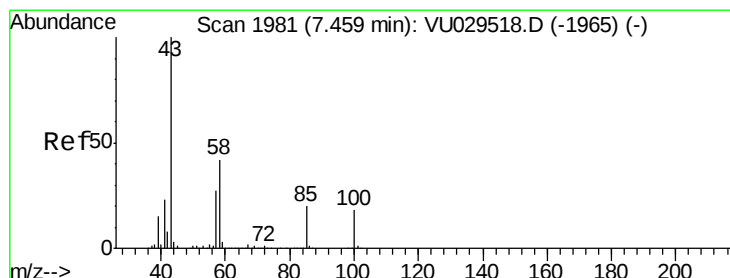
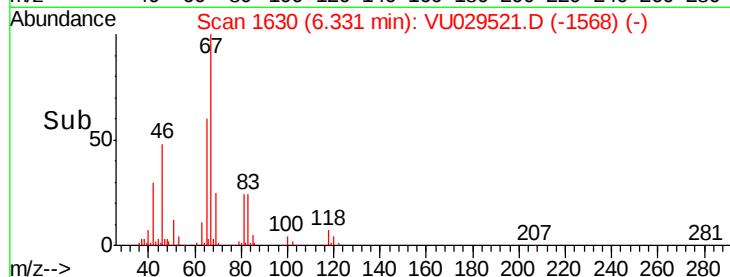
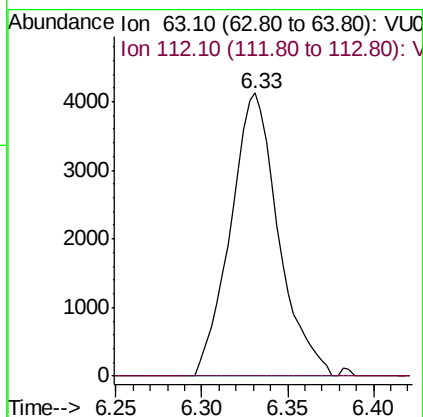
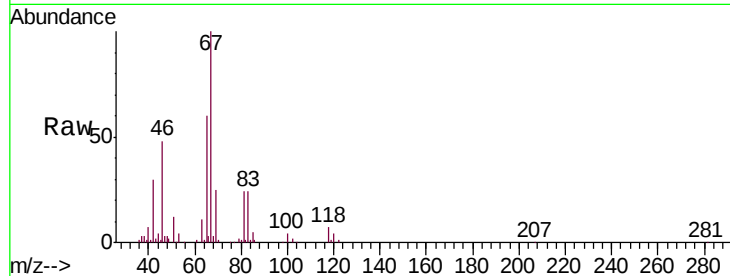




#37  
 1,2-Dichloropropane  
 Concen: 0.515 ug/L  
 RT: 6.33 min Scan# 1630  
 Delta R.T. -0.10 min  
 Lab File: VU029521.D  
 Acq: 18 Feb 2019 11:14

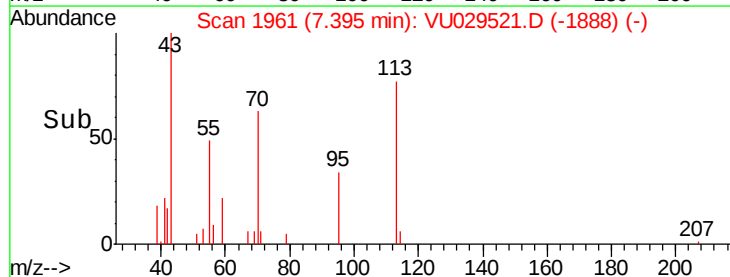
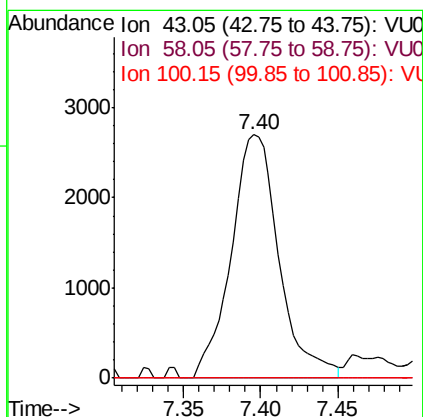
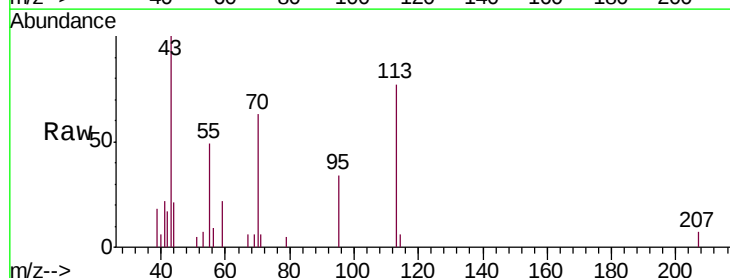
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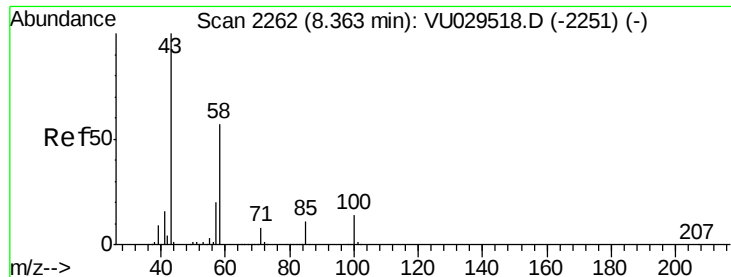
Tgt Ion: 63 Resp: 8005  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.5 5.3#



#40  
 4-Methyl-2-pentanone  
 Concen: 0.649 ug/L  
 RT: 7.40 min Scan# 1961  
 Delta R.T. -0.06 min  
 Lab File: VU029521.D  
 Acq: 18 Feb 2019 11:14

Tgt Ion: 43 Resp: 5819  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 33.4 50.2#  
 100 0.0 14.4 21.6#

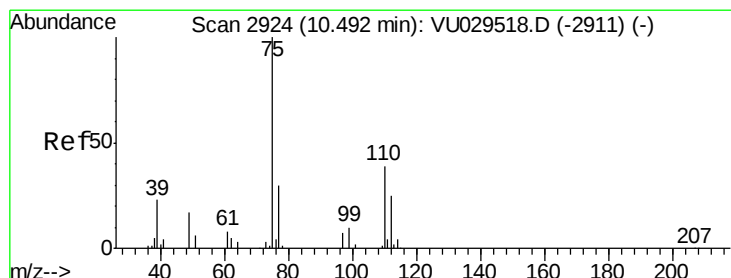
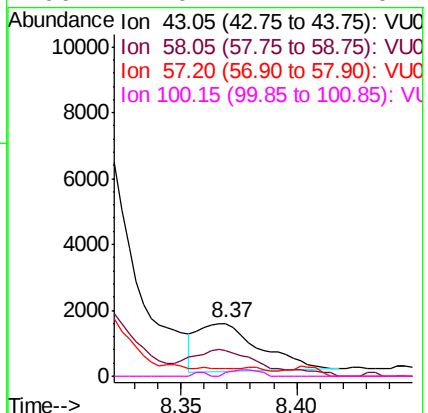
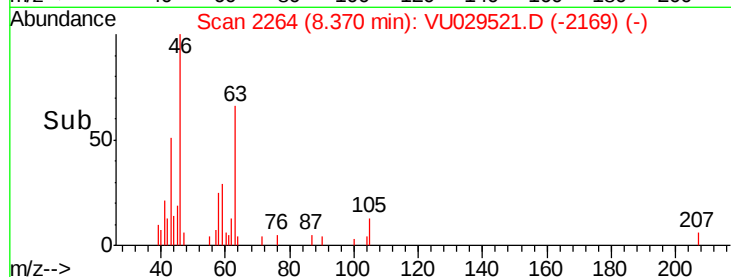
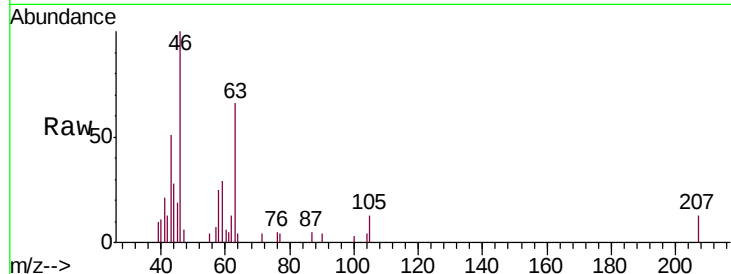




#48  
2-Hexanone  
Concen: 0.406 ug/L  
RT: 8.37 min Scan# 2264  
Delta R.T. 0.01 min  
Lab File: VU029521.D  
Acq: 18 Feb 2019 11:14

Instrument :  
MSVOA\_U  
ClientSampleId :  
ESXG1RE

Tgt Ion: 43 Resp: 2654  
Ion Ratio Lower Upper  
43 100  
58 68.3 45.7 68.5  
57 9.3 16.4 24.6#  
100 7.0 11.1 16.7#



#59  
1,2,3-Trichloropropane  
Concen: 1.150 ug/L  
RT: 11.48 min Scan# 3232  
Delta R.T. 0.99 min  
Lab File: VU029521.D  
Acq: 18 Feb 2019 11:14

Tgt Ion: 75 Resp: 11467  
Ion Ratio Lower Upper  
75 100  
77 36.6 28.2 42.2

