

Data File : VU028162.D  
Acq On : 15 Nov 2018 10:31  
Operator : MD/SY  
Sample : J5943-16DL 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H0FN2DL

Quant Time: Nov 16 00:46:56 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111418WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Nov 16 00:43:47 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 134275   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 124165   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 56145    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 44487    | 3.99     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 79.80% |
| 7) Chloroethane-d5             | 1.68   | 69    | 38762    | 4.38     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.60% |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 67035    | 3.22     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 64.40% |
| 20) 2-Butanone-d5              | 4.19   | 46    | 156058   | 48.29    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.58% |
| 24) Chloroform-d               | 4.65   | 84    | 82764    | 4.67     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 48372    | 4.89     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80% |
| 32) Benzene-d6                 | 5.34   | 84    | 168462   | 4.72     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.40% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 61866    | 4.85     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.00% |
| 41) Toluene-d8                 | 7.57   | 98    | 146498   | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.20% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 19153    | 4.21     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 84.20% |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 117544   | 45.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 90.50% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 43300    | 4.80     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 49172    | 4.69     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.80% |

#### Target Compounds

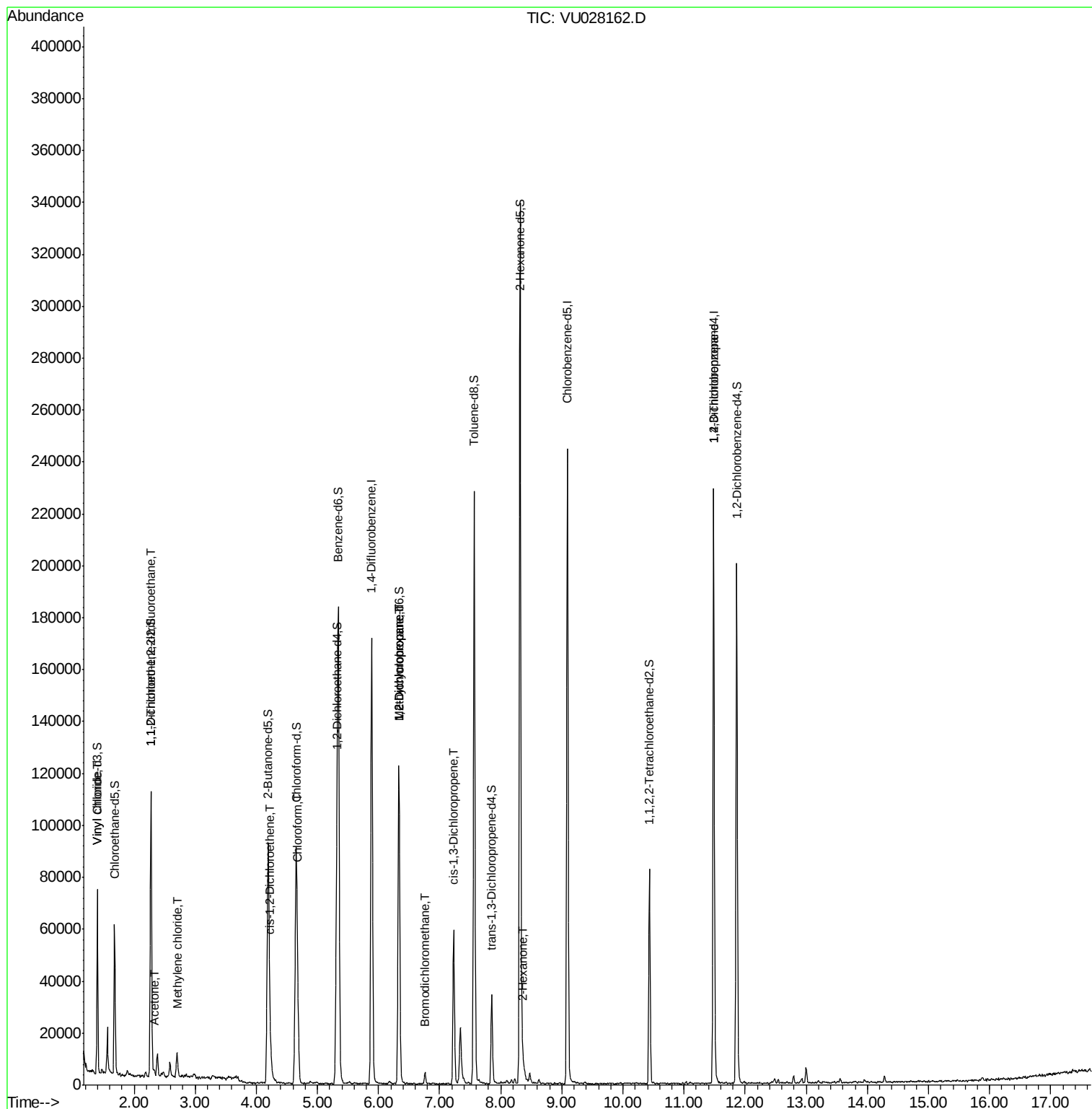
|                                |       |     |       |       | Qvalue |    |
|--------------------------------|-------|-----|-------|-------|--------|----|
| 5) Vinyl chloride              | 1.41  | 62  | 2149  | 0.149 | ug/L # | 63 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101 | 510   | 0.058 | ug/L # | 20 |
| 13) Acetone                    | 2.32  | 43  | 1758  | 0.808 | ug/L   | 85 |
| 16) Methylene chloride         | 2.70  | 84  | 3349  | 0.317 | ug/L   | 95 |
| 22) cis-1,2-Dichloroethene     | 4.23  | 96  | 1929  | 0.184 | ug/L   | 80 |
| 25) Chloroform                 | 4.68  | 83  | 26553 | 1.483 | ug/L   | 99 |
| 35) Methylcyclohexane          | 6.33  | 83  | 12420 | 0.699 | ug/L # | 16 |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 6696  | 0.579 | ug/L # | 92 |
| 38) Bromodichloromethane       | 6.76  | 83  | 3293  | 0.268 | ug/L   | 92 |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 1399  | 0.089 | ug/L   | 84 |
| 48) 2-Hexanone                 | 8.37  | 43  | 1911  | 0.337 | ug/L # | 86 |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 8495  | 1.307 | ug/L   | 95 |

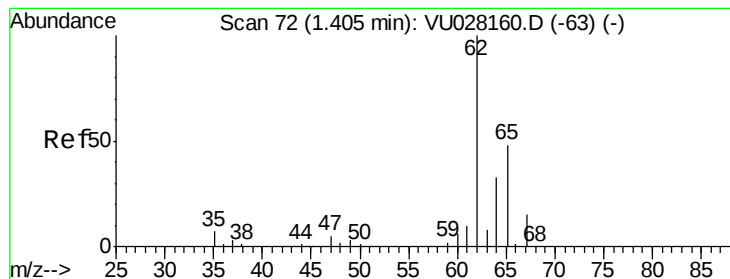
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.149 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028162.D

Acq: 15 Nov 2018 10:31

Instrument :

MSVOA\_U

ClientSampleId :

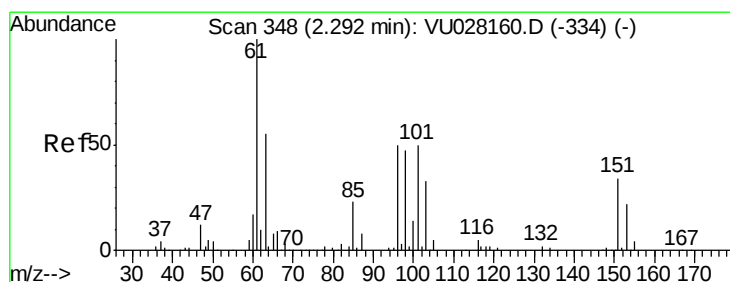
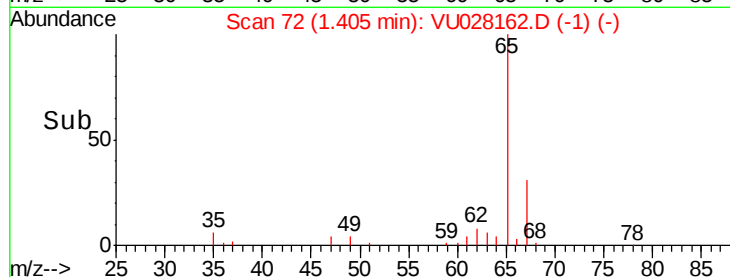
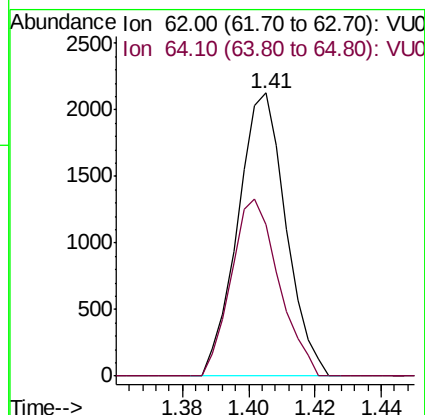
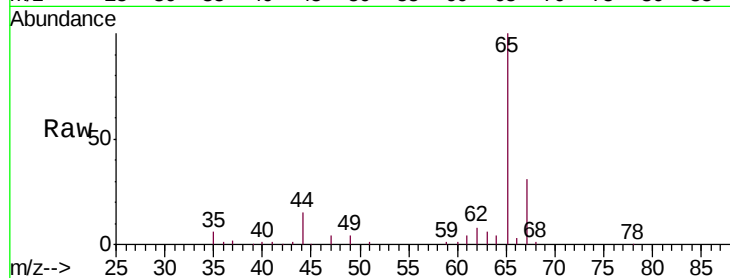
H0FN2DL

Tgt Ion: 62 Resp: 2149

Ion Ratio Lower Upper

62 100

64 53.3 22.7 42.3#



#10

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

Concen: 0.058 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.02 min

Lab File: VU028162.D

Acq: 15 Nov 2018 10:31

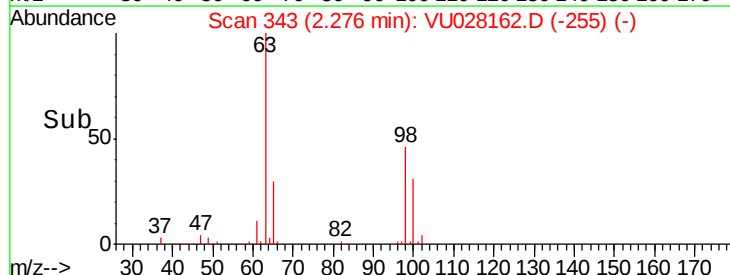
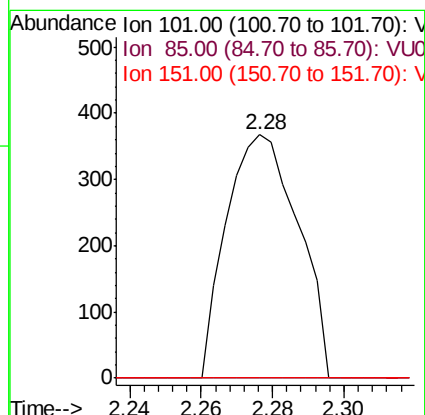
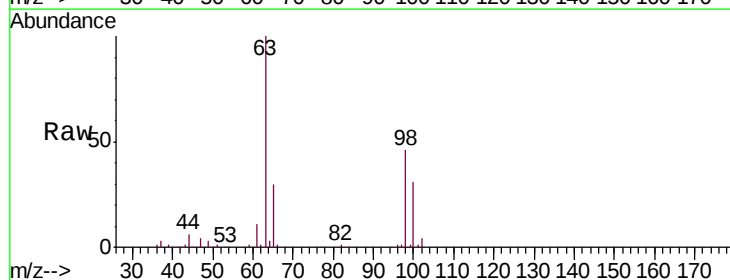
Tgt Ion: 101 Resp: 510

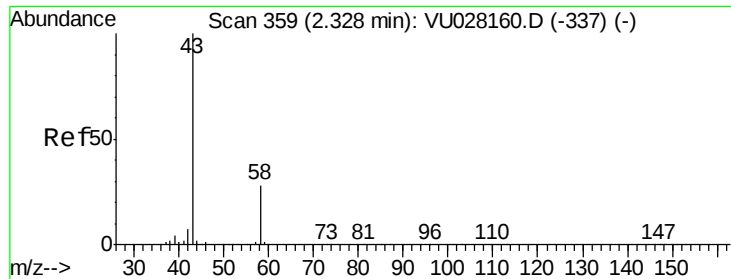
Ion Ratio Lower Upper

101 100

85 0.0 37.6 56.4#

151 0.0 58.2 87.2#





#13

Acetone

Concen: 0.808 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.01 min

Lab File: VU028162.D

Acq: 15 Nov 2018 10:31

Instrument :

MSVOA\_U

ClientSampleId :

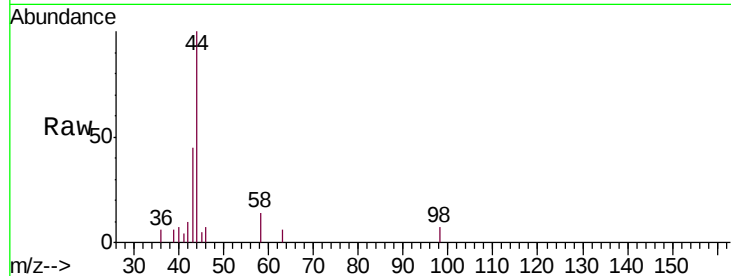
H0FN2DL

Tgt Ion: 43 Resp: 1758

Ion Ratio Lower Upper

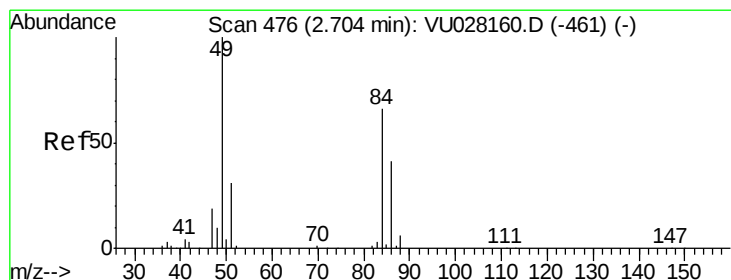
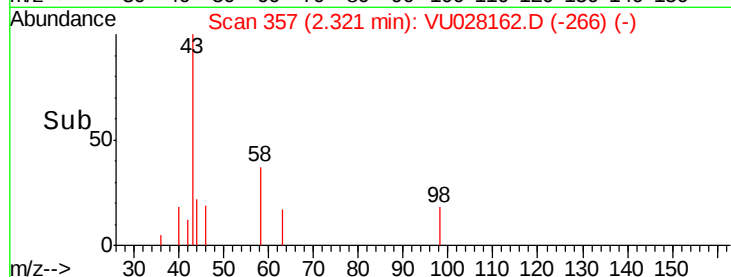
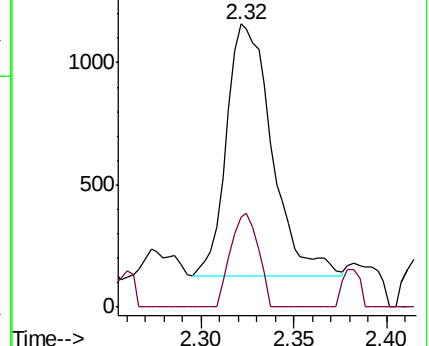
43 100

58 22.6 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#16

Methylene chloride

Concen: 0.317 ug/L

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU028162.D

Acq: 15 Nov 2018 10:31

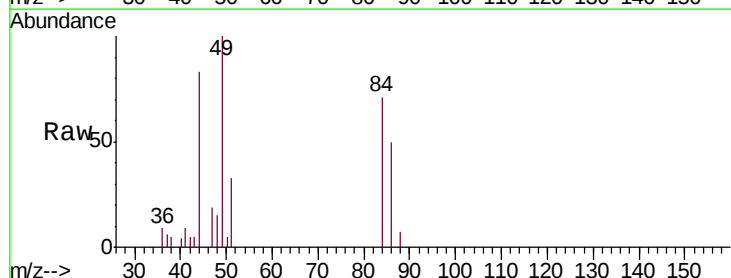
Tgt Ion: 84 Resp: 3349

Ion Ratio Lower Upper

84 100

86 70.2 44.6 82.8

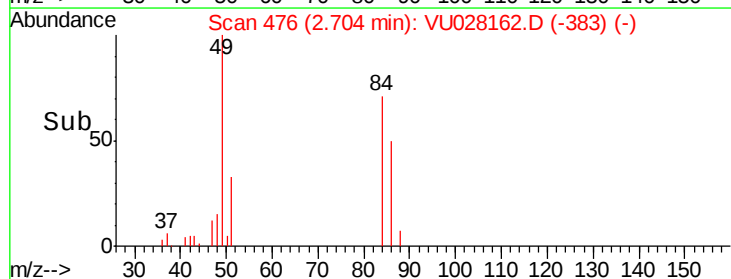
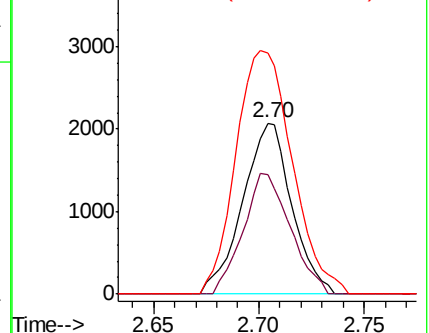
49 141.4 102.5 190.3

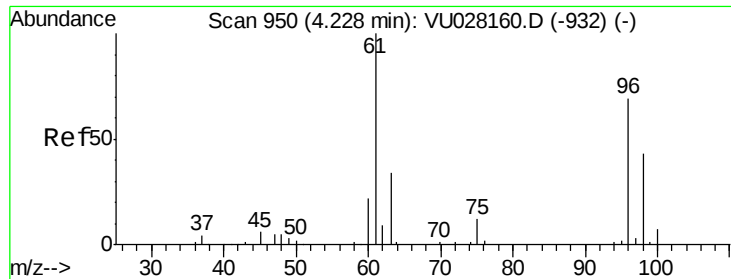


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



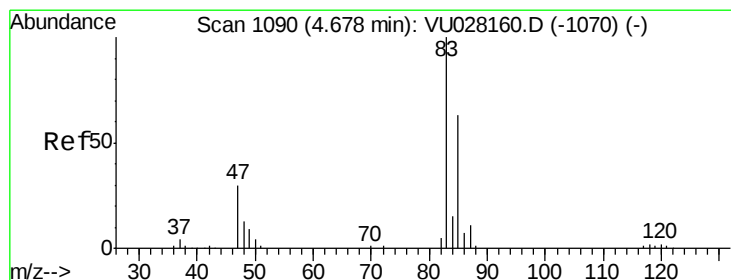
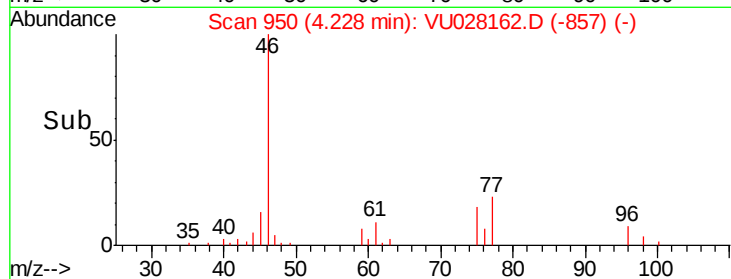
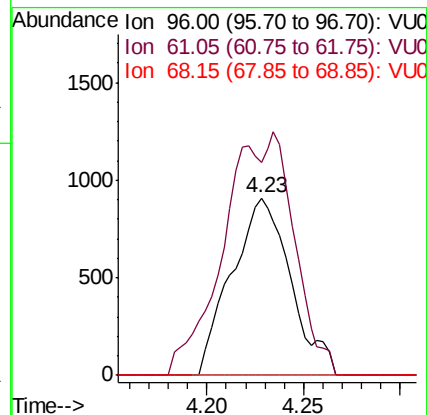
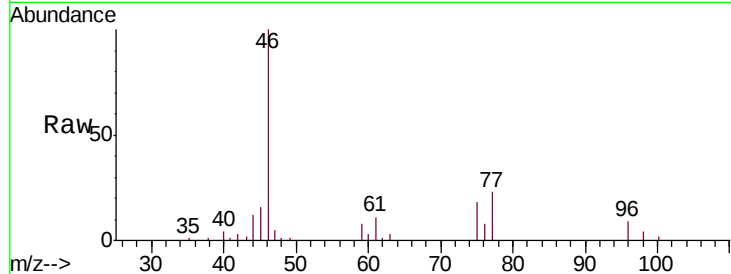


#22

cis-1,2-Dichloroethene  
Concen: 0.184 ug/L  
RT: 4.23 min Scan# 950  
Delta R.T. 0.00 min  
Lab File: VU028162.D  
Acq: 15 Nov 2018 10:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
H0FN2DL

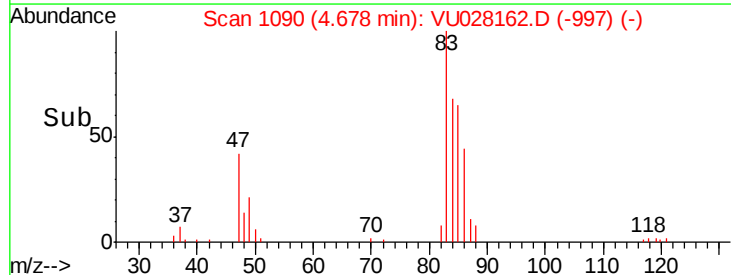
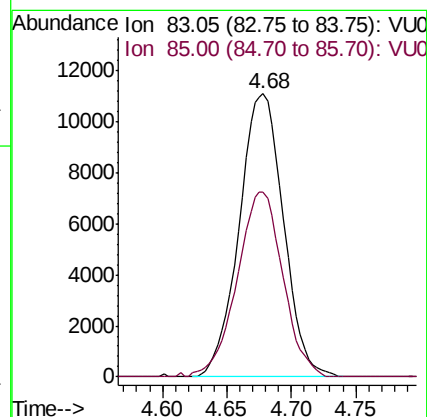
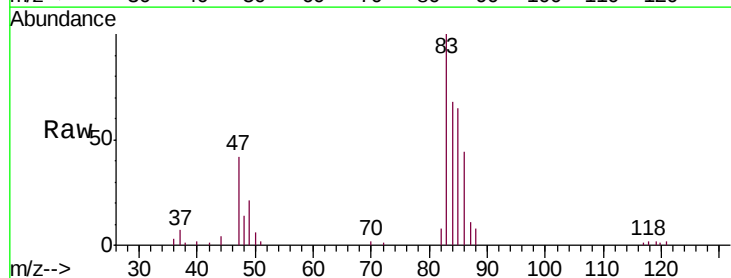
Tgt Ion: 96 Resp: 1929  
Ion Ratio Lower Upper  
96 100  
61 120.4 101.8 189.0  
68 0.0 0.0 0.0

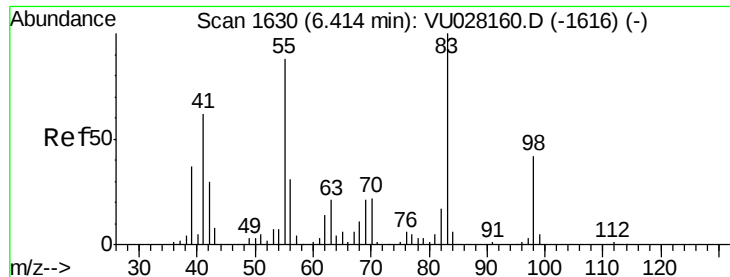


#25

Chloroform  
Concen: 1.483 ug/L  
RT: 4.68 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VU028162.D  
Acq: 15 Nov 2018 10:31

Tgt Ion: 83 Resp: 26553  
Ion Ratio Lower Upper  
83 100  
85 65.3 45.0 83.6

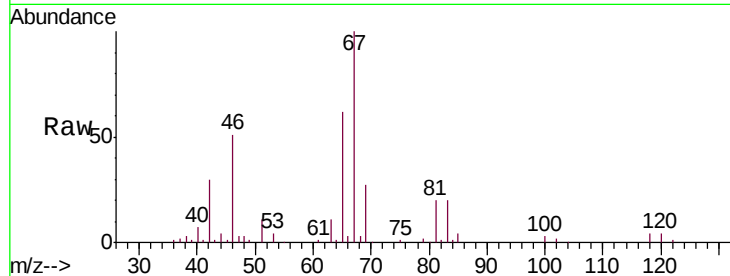




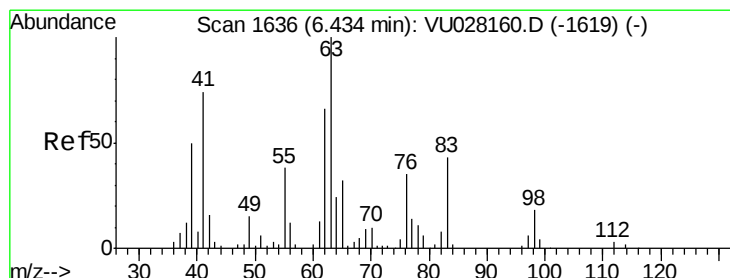
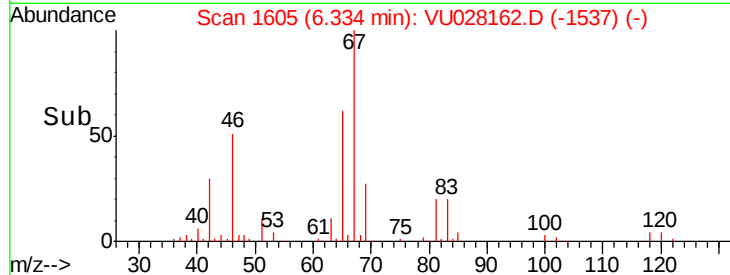
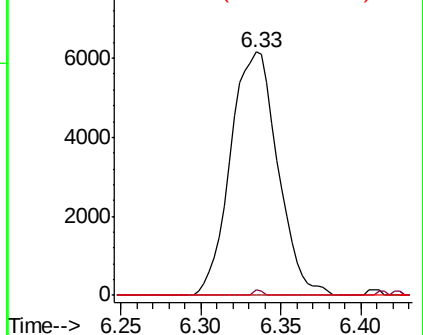
#35  
Methylcyclohexane  
Concen: 0.699 ug/L  
RT: 6.33 min Scan# 1605  
Delta R.T. -0.08 min  
Lab File: VU028162.D  
Acq: 15 Nov 2018 10:31

Instrument :  
MSVOA\_U  
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Tgt Ion: 83 Resp: 12420  
Ion Ratio Lower Upper  
83 100  
55 0.4 69.0 103.4#  
98 0.0 33.3 49.9#

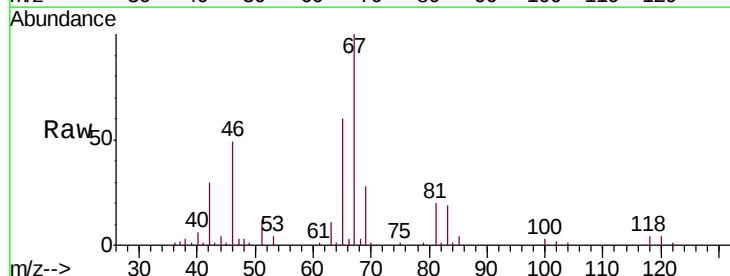


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

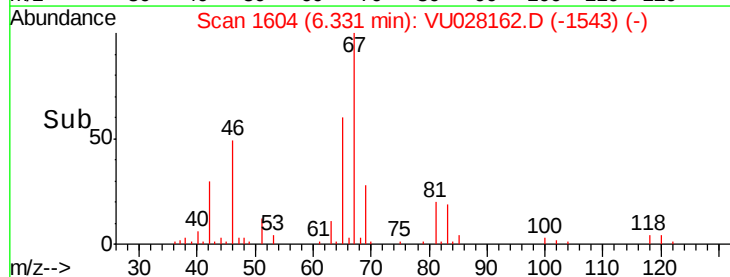
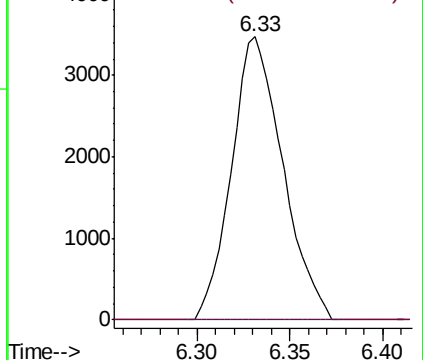


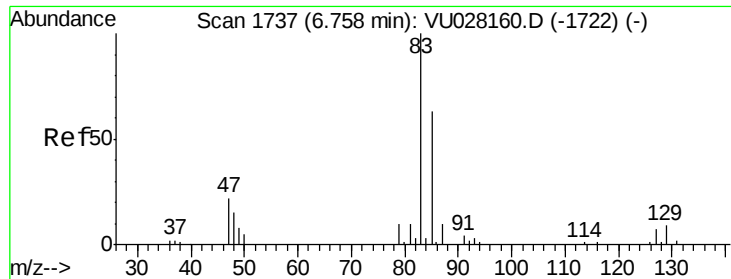
#37  
1,2-Dichloropropane  
Concen: 0.579 ug/L  
RT: 6.33 min Scan# 1604  
Delta R.T. -0.10 min  
Lab File: VU028162.D  
Acq: 15 Nov 2018 10:31

Tgt Ion: 63 Resp: 6696  
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

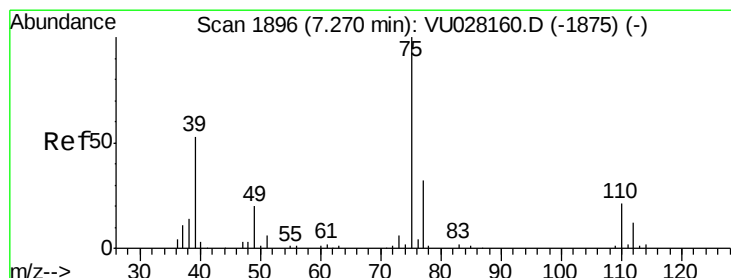
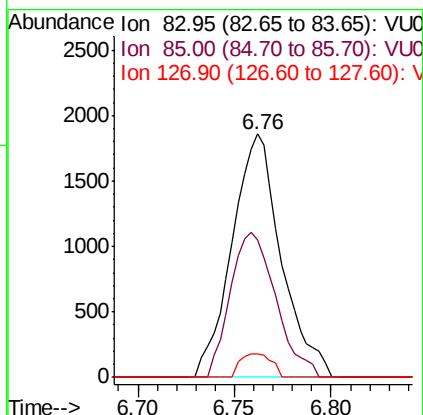
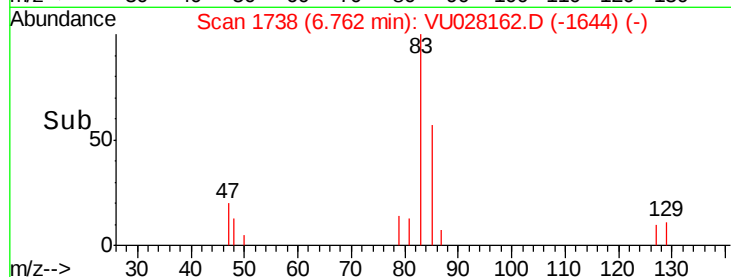
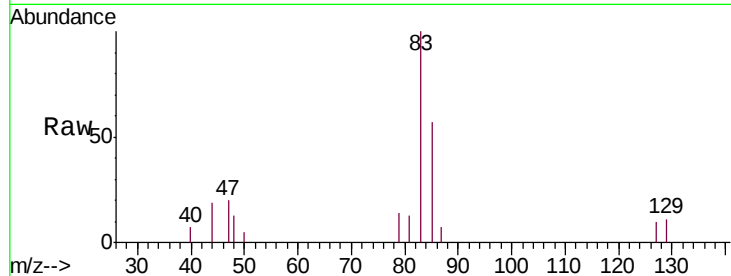




#38  
Bromodichloromethane  
Concen: 0.268 ug/L  
RT: 6.76 min Scan# 1738  
Delta R.T. 0.00 min  
Lab File: VU028162.D  
Acq: 15 Nov 2018 10:31

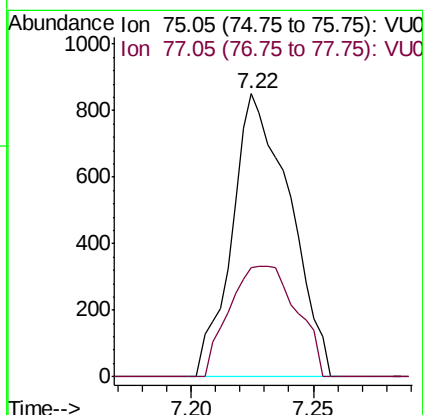
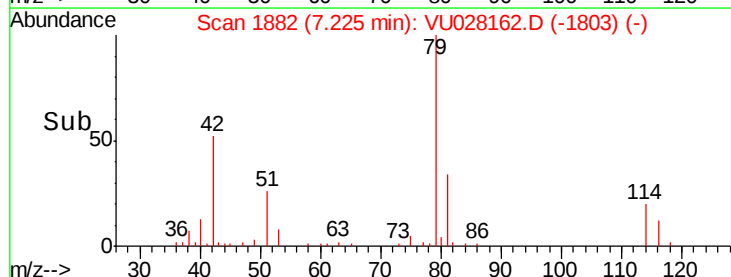
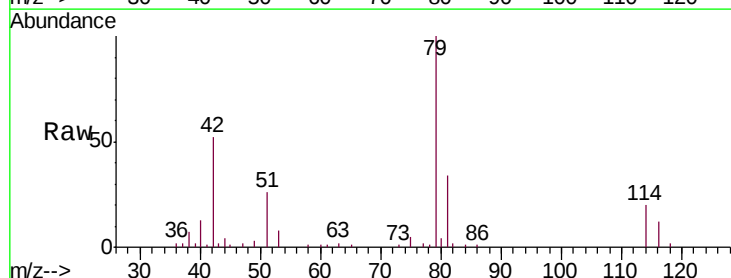
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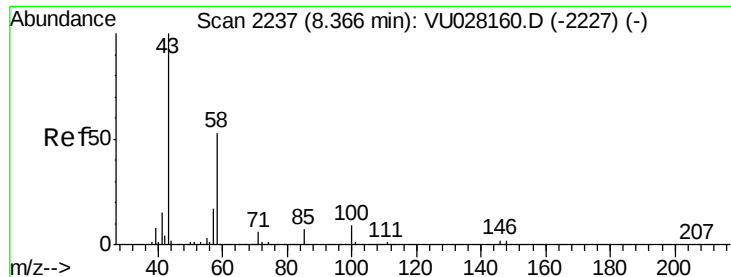
Tgt Ion: 83 Resp: 3293  
Ion Ratio Lower Upper  
83 100  
85 56.7 44.5 82.7  
127 9.7 6.8 10.2



#39  
cis-1,3-Dichloropropene  
Concen: 0.089 ug/L  
RT: 7.22 min Scan# 1882  
Delta R.T. -0.04 min  
Lab File: VU028162.D  
Acq: 15 Nov 2018 10:31

Tgt Ion: 75 Resp: 1399  
Ion Ratio Lower Upper  
75 100  
77 38.4 20.9 38.9

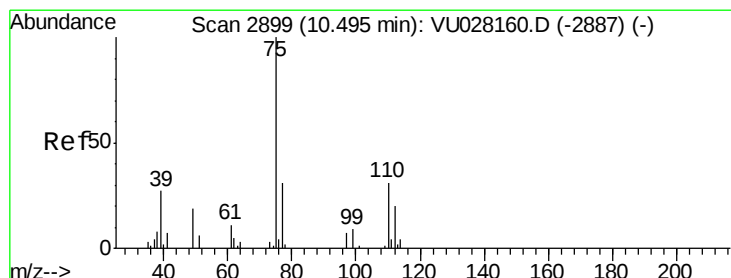
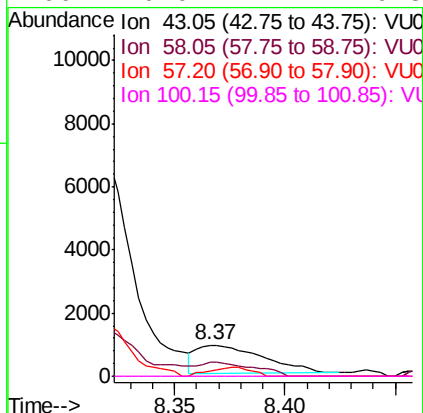
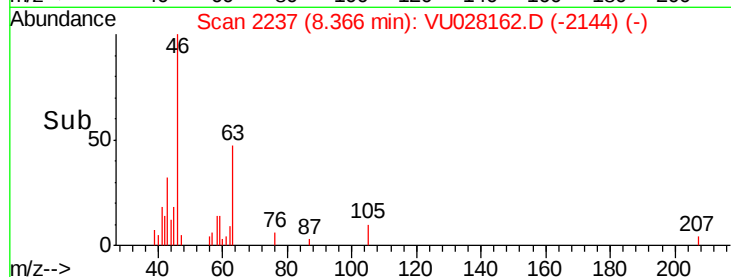
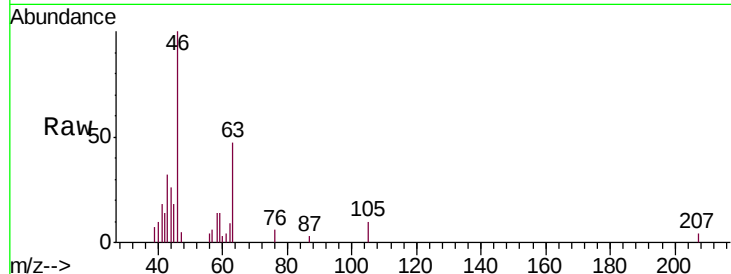




#48  
 2-Hexanone  
 Concen: 0.337 ug/L  
 RT: 8.37 min Scan# 2237  
 Delta R.T. 0.00 min  
 Lab File: VU028162.D  
 Acq: 15 Nov 2018 10:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0FN2DL

Tgt Ion: 43 Resp: 1911  
 Ion Ratio Lower Upper  
 43 100  
 58 41.2 41.7 62.5#  
 57 19.6 14.0 21.0  
 100 0.0 7.2 10.8#



#59  
 1,2,3-Trichloropropane  
 Concen: 1.307 ug/L  
 RT: 11.48 min Scan# 3207  
 Delta R.T. 0.99 min  
 Lab File: VU028162.D  
 Acq: 15 Nov 2018 10:31

Tgt Ion: 75 Resp: 8495  
 Ion Ratio Lower Upper  
 75 100  
 77 34.4 25.4 38.0

