

Data File : VU028766.D  
Acq On : 18 Dec 2018 13:36  
Operator : MD/SY  
Sample : VU1218MBL01  
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK57

Quant Time: Dec 19 00:41:33 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM120718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Dec 19 00:38:48 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 169016   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 158922   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 68919    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 75892    | 48.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.16%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 57584    | 48.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.34%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 96163    | 34.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.10%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 114378   | 90.23    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.23%  |
| 24) Chloroform-d               | 4.65    | 84    | 115789   | 46.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.70%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 75587    | 45.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.78%  |
| 32) Benzene-d6                 | 5.34    | 84    | 257677   | 51.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.72% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 91911    | 51.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.00% |
| 41) Toluene-d8                 | 7.56    | 98    | 231717   | 51.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.28% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 39981    | 48.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.98%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 89819    | 103.93   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.93% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 119137   | 51.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.78% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 80623    | 57.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 115.32% |

#### Target Compounds

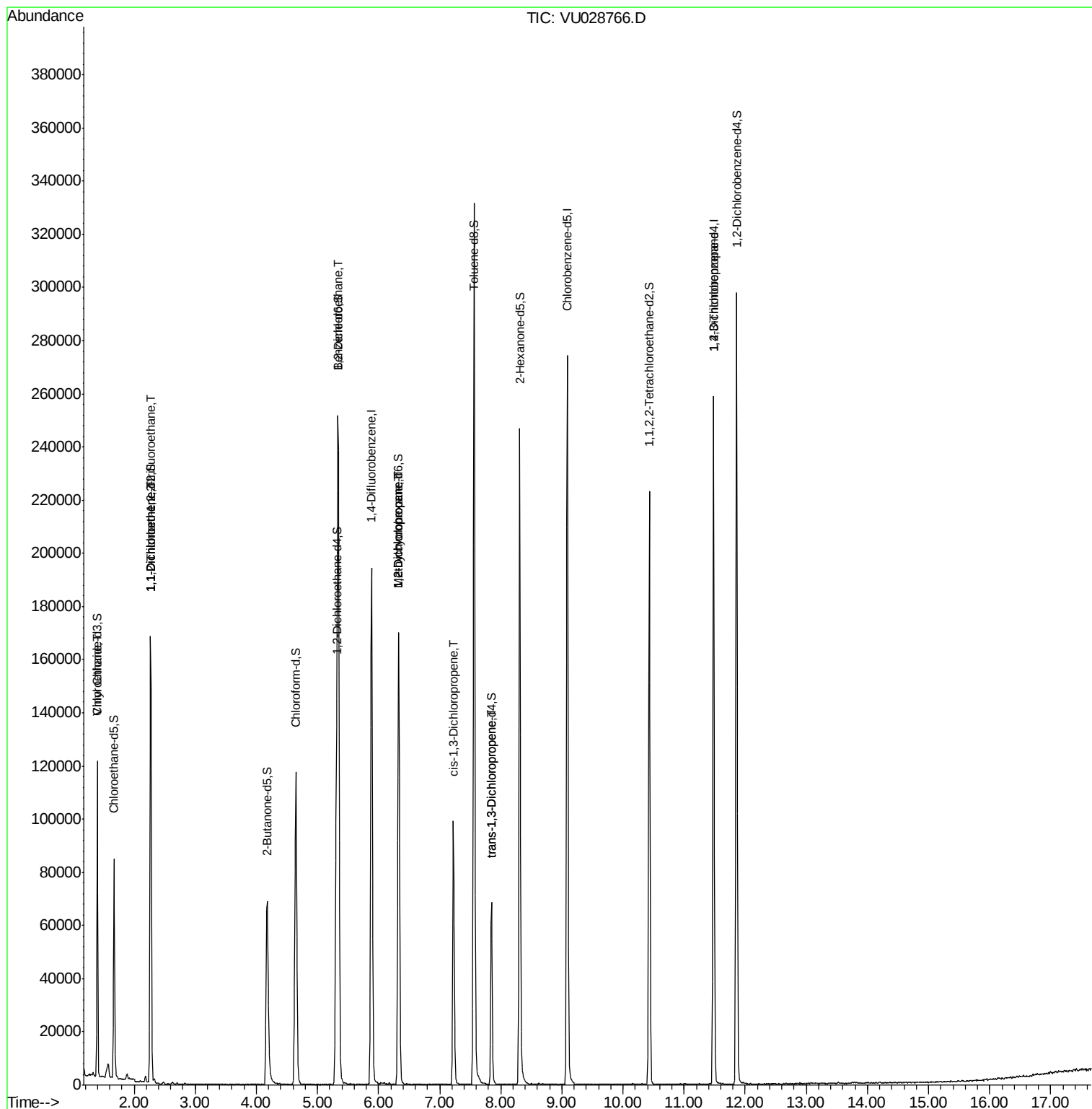
|                                |       |     |       |       | Qvalue |    |
|--------------------------------|-------|-----|-------|-------|--------|----|
| 8) Chloroethane                | 1.40  | 64  | 1128  | 1.051 | ug/L # | 1  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 935   | 0.796 | ug/L # | 21 |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 778   | 0.699 | ug/L # | 1  |
| 27) 1,2-Dichloroethane         | 5.34  | 62  | 1106  | 0.531 | ug/L # | 76 |
| 35) Methylcyclohexane          | 6.33  | 83  | 18554 | 7.993 | ug/L # | 15 |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 8447  | 4.985 | ug/L # | 91 |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 1843  | 0.766 | ug/L # | 39 |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 1365  | 0.615 | ug/L   | 94 |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 8640  | 4.512 | ug/L   | 93 |

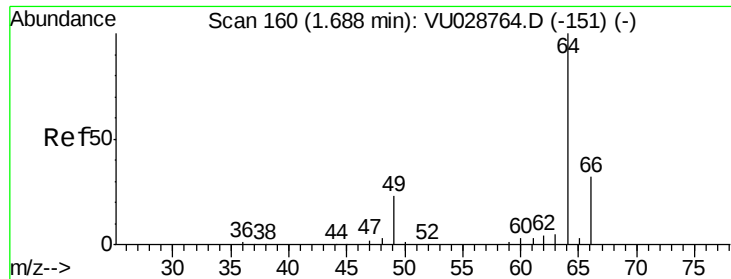
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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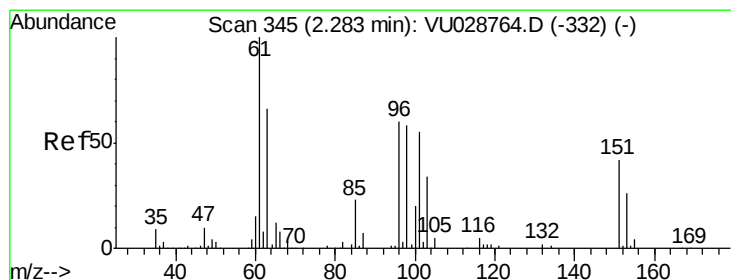
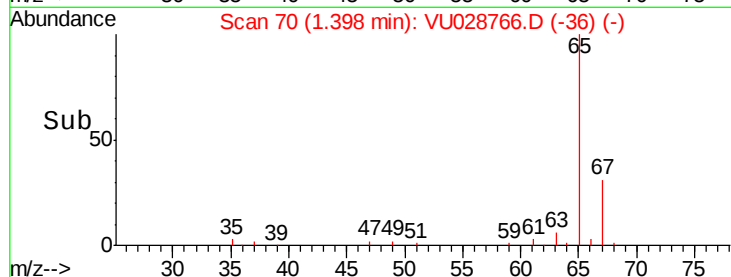
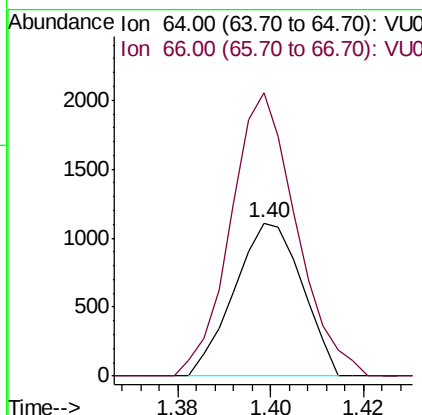
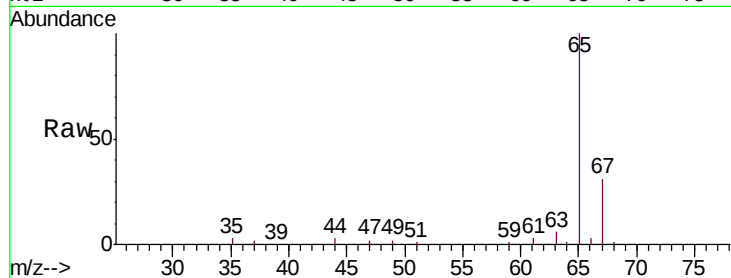




#8  
Chloroethane  
Concen: 1.051 ug/L  
RT: 1.40 min Scan# 70  
Delta R.T. -0.29 min  
Lab File: VU028766.D  
Acq: 18 Dec 2018 13:36

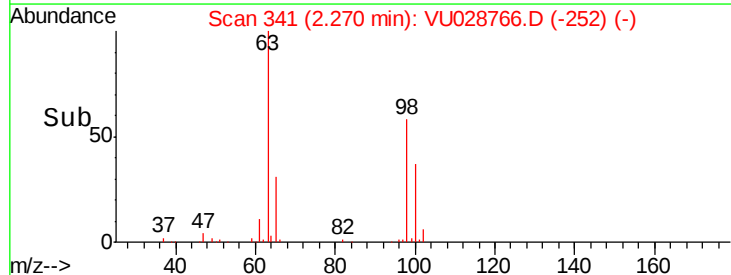
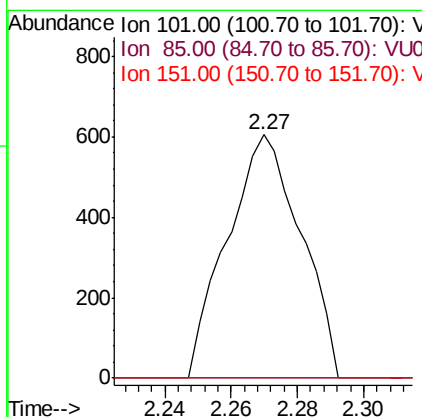
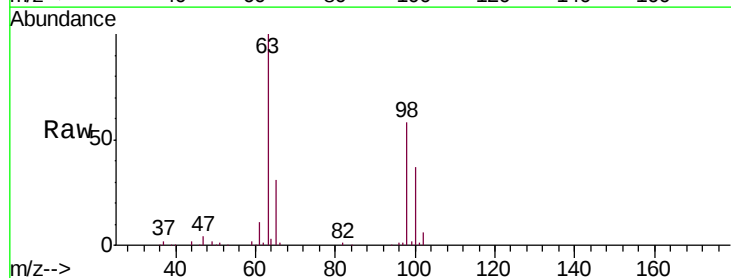
Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK57

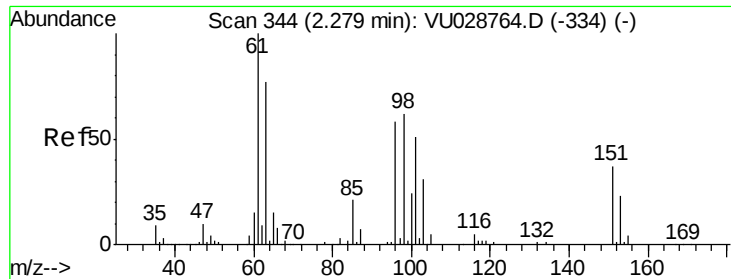
Tgt Ion: 64 Resp: 1128  
Ion Ratio Lower Upper  
64 100  
66 185.0 22.4 41.6#



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.796 ug/L  
RT: 2.27 min Scan# 341  
Delta R.T. -0.01 min  
Lab File: VU028766.D  
Acq: 18 Dec 2018 13:36

Tgt Ion: 101 Resp: 935  
Ion Ratio Lower Upper  
101 100  
85 0.0 36.8 55.2#  
151 0.0 55.8 83.8#





#12

1,1-Dichloroethene

Concen: 0.699 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU028766.D

Acq: 18 Dec 2018 13:36

Instrument :

MSVOA\_U

ClientSampleId :

VBLK57

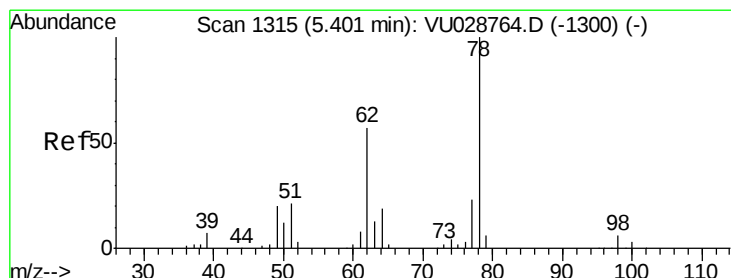
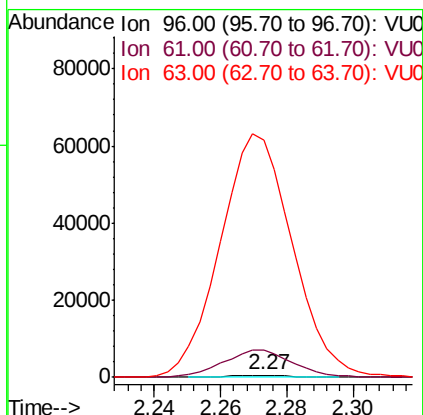
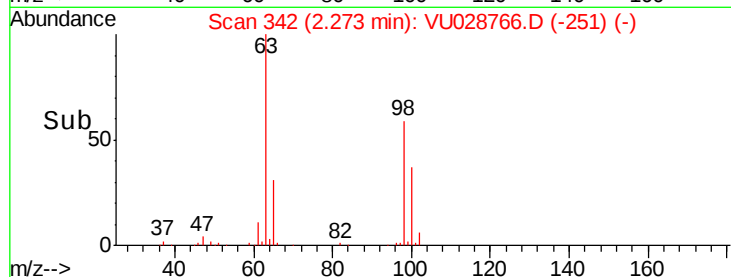
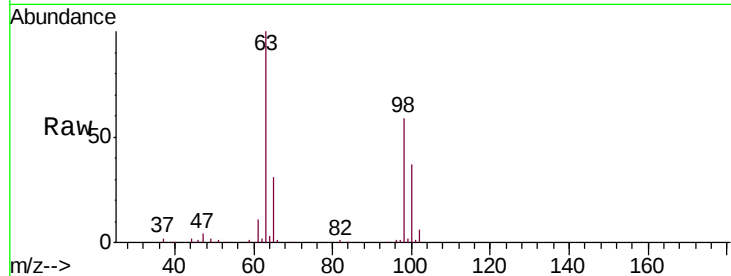
Tgt Ion: 96 Resp: 778

Ion Ratio Lower Upper

96 100

61 1317.5 143.2 266.0#

63 11584.2 130.1 241.7#



#27

1,2-Dichloroethane

Concen: 0.531 ug/L

RT: 5.34 min Scan# 1296

Delta R.T. -0.06 min

Lab File: VU028766.D

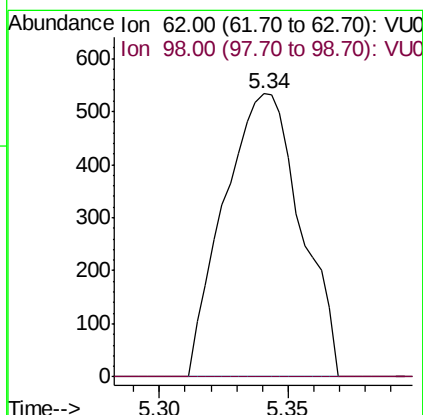
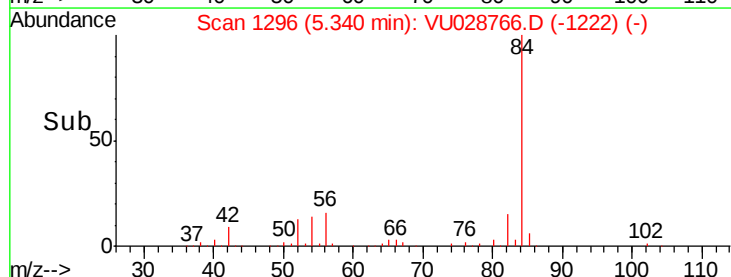
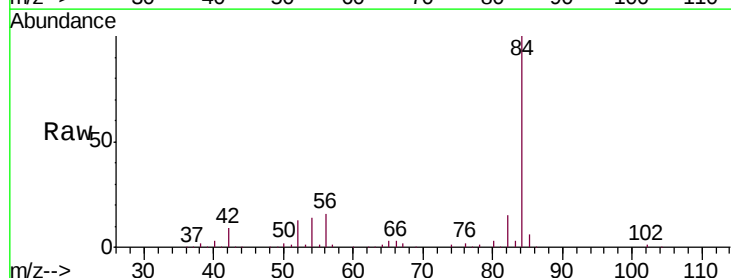
Acq: 18 Dec 2018 13:36

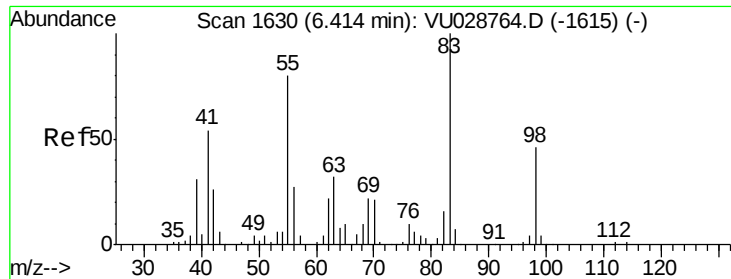
Tgt Ion: 62 Resp: 1106

Ion Ratio Lower Upper

62 100

98 0.0 6.7 10.1#

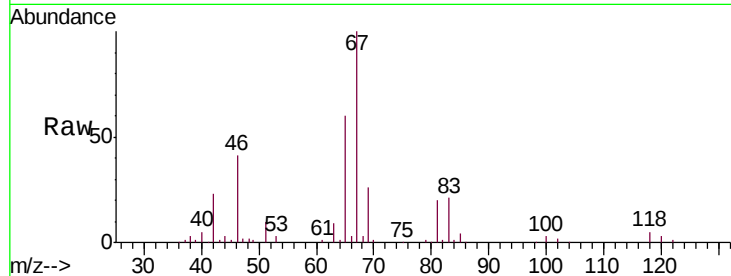




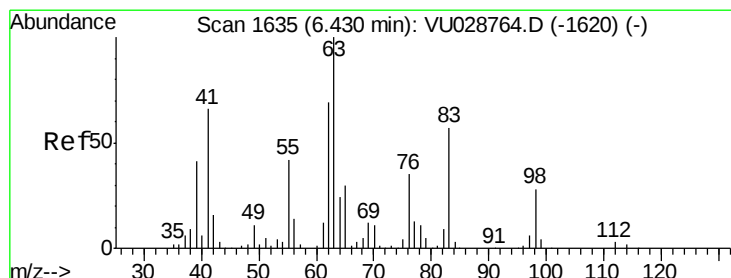
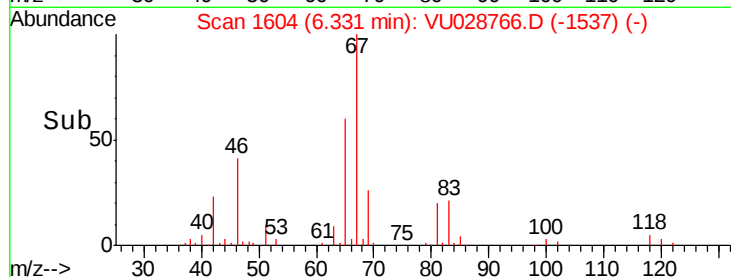
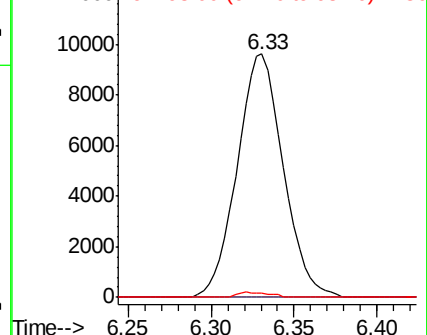
#35  
Methylcyclohexane  
Concen: 7.993 ug/L  
RT: 6.33 min Scan# 1604  
Delta R.T. -0.08 min  
Lab File: VU028766.D  
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Tgt Ion: 83 Resp: 18554  
Ion Ratio Lower Upper  
83 100  
55 0.0 70.1 105.1#  
98 1.4 34.4 51.6#

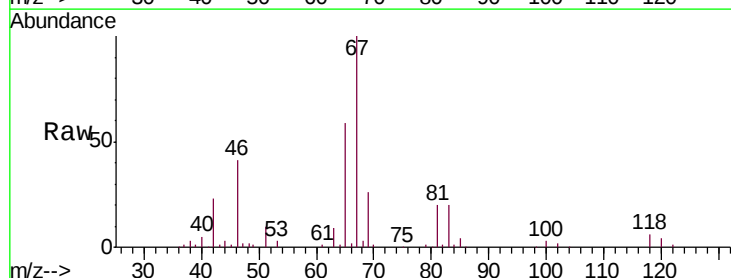


Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

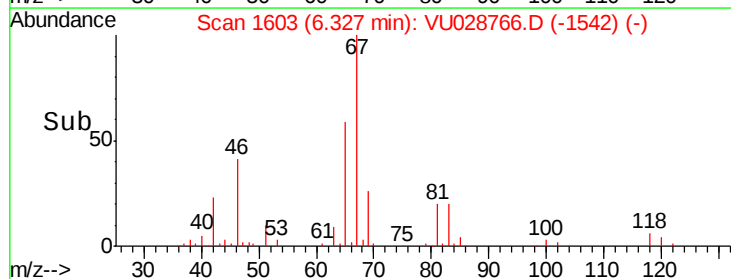
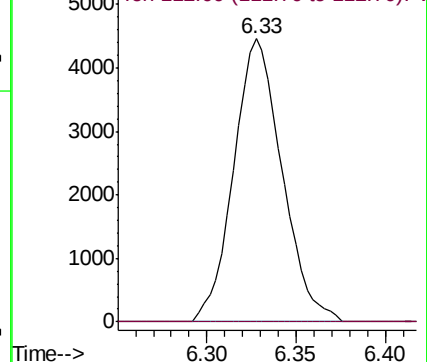


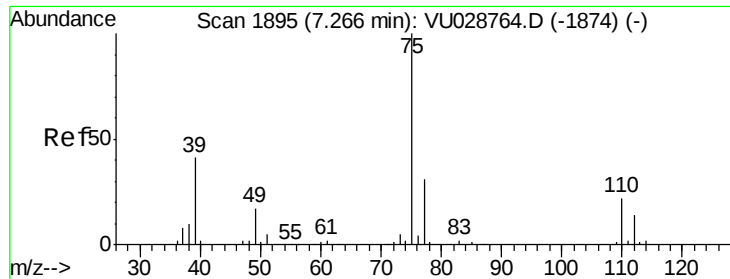
#37  
1,2-Dichloropropane  
Concen: 4.985 ug/L  
RT: 6.33 min Scan# 1603  
Delta R.T. -0.10 min  
Lab File: VU028766.D  
Acq: 18 Dec 2018 13:36

Tgt Ion: 63 Resp: 8447  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.4 3.6#



Abundance Ion 63.00 (62.70 to 63.70): VU0  
Ion 112.00 (111.70 to 112.70): V

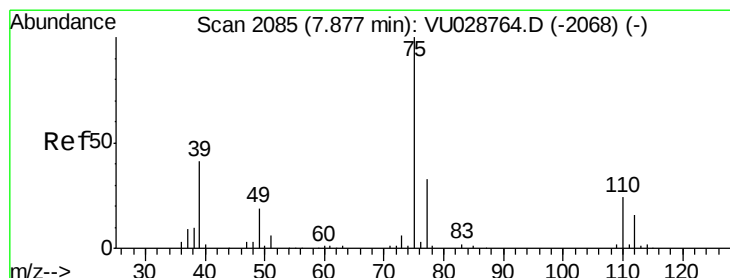
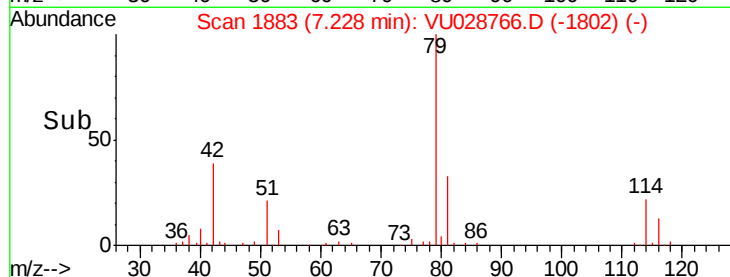
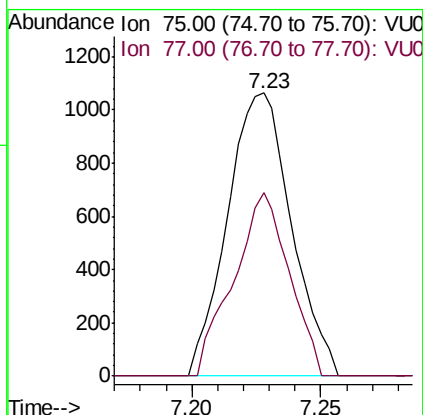
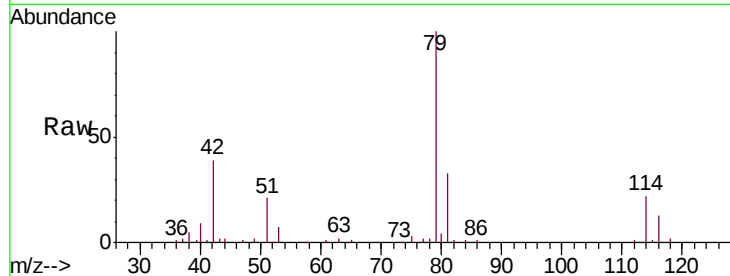




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.766 ug/L  
 RT: 7.23 min Scan# 1883  
 Delta R.T. -0.04 min  
 Lab File: VU028766.D  
 Acq: 18 Dec 2018 13:36

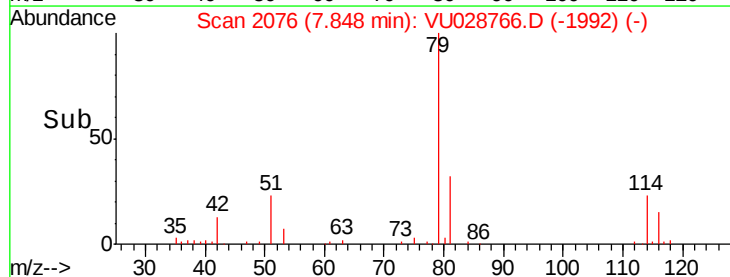
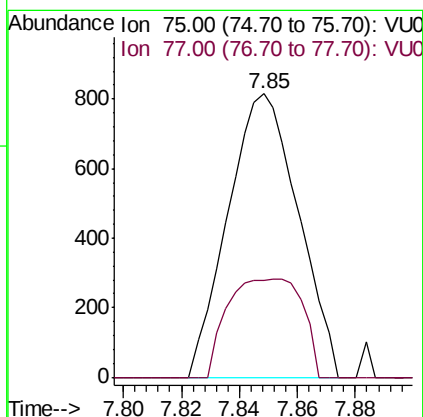
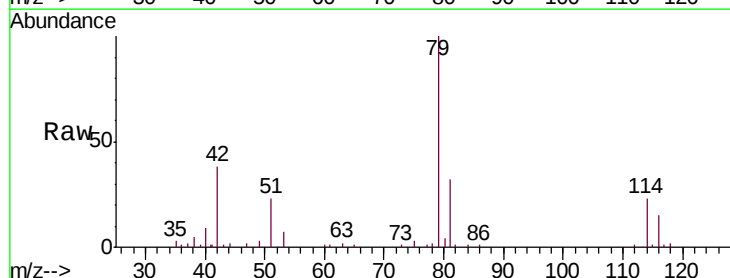
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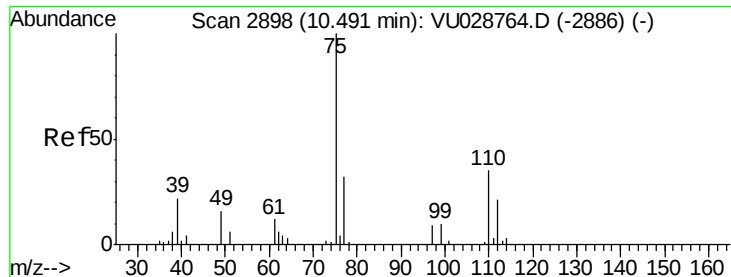
Tgt Ion: 75 Resp: 1843  
 Ion Ratio Lower Upper  
 75 100  
 77 64.9 21.8 40.6#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.615 ug/L  
 RT: 7.85 min Scan# 2076  
 Delta R.T. -0.03 min  
 Lab File: VU028766.D  
 Acq: 18 Dec 2018 13:36

Tgt Ion: 75 Resp: 1365  
 Ion Ratio Lower Upper  
 75 100  
 77 34.2 21.8 40.6





#59

1,2,3-Trichloropropane

Concen: 4.512 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028766.D

Acq: 18 Dec 2018 13:36

Instrument :

MSVOA\_U

ClientSampleId :

VBLK57

Tgt Ion: 75 Resp: 8640

Ion Ratio Lower Upper

75 100

77 35.5 25.4 38.2

