

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041319\  
 Data File : VU031174.D  
 Acq On : 13 Apr 2019 22:27  
 Operator : JC/SP  
 Sample : VU0413WBL02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VBLK31

Quant Time: Apr 13 23:58:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 13 23:49:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 428260   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 422832   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 162502   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 181301   | 47.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 94.84%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 141129   | 48.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.28%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 242100   | 35.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.02%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 315776   | 104.22   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.22% |
| 24) Chloroform-d               | 4.64    | 84    | 310827   | 53.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.44% |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 210304   | 52.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.56% |
| 32) Benzene-d6                 | 5.33    | 84    | 624333   | 50.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.16% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 214487   | 50.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.40% |
| 41) Toluene-d8                 | 7.56    | 98    | 530103   | 48.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.90%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 88352    | 45.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.60%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 187652   | 97.06    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.06%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 297693   | 52.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.34% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 185549   | 58.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 116.12% |

## Target Compounds

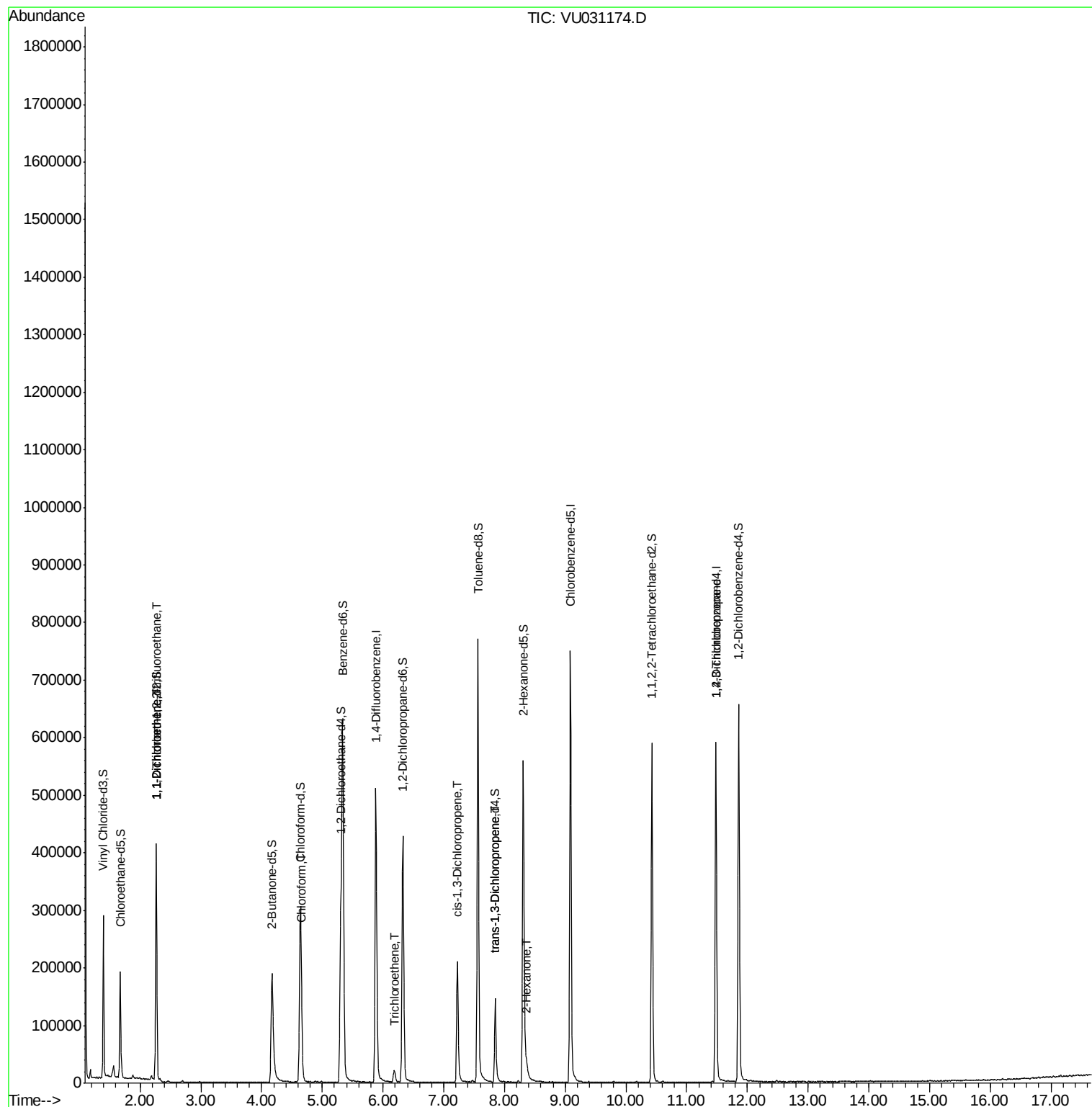
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26  | 101 | 2552  | 0.832 ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.26  | 96  | 2247  | 0.759 ug/L # | 1      |
| 25) Chloroform                 | 4.67  | 83  | 8647  | 1.326 ug/L   | 96     |
| 34) Trichloroethene            | 6.19  | 95  | 7531  | 2.219 ug/L   | 91     |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 5014  | 0.899 ug/L # | 75     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3676  | 0.748 ug/L   | 88     |
| 48) 2-Hexanone                 | 8.37  | 43  | 12829 | 2.610 ug/L # | 64     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 19524 | 4.161 ug/L   | 91     |

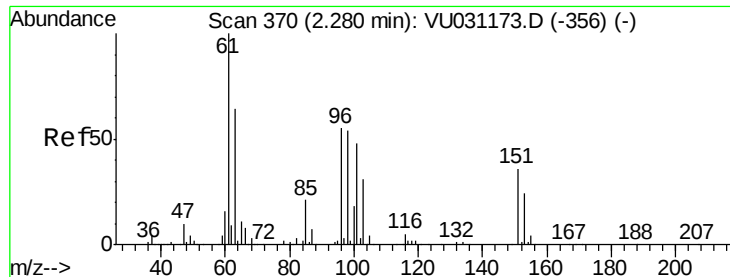
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VU0413WBL02  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK31

Quant Time: Apr 13 23:58:12 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 13 23:49:21 2019  
Response via : Initial Calibration





#10

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

Concen: 0.832 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.02 min

Lab File: VU031174.D

Acq: 13 Apr 2019 22:27

Instrument :

MSVOA\_U

ClientSampleId :

VBLK31

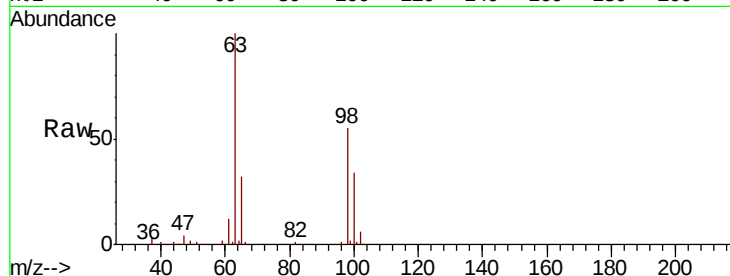
Tot Ion:101 Resp: 2552

Ion Ratio Lower Upper

101 100

85 3.3 36.8 55.2#

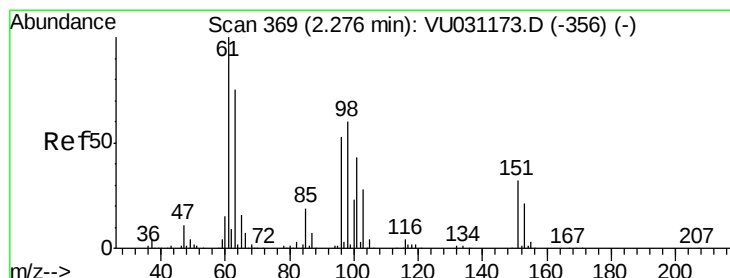
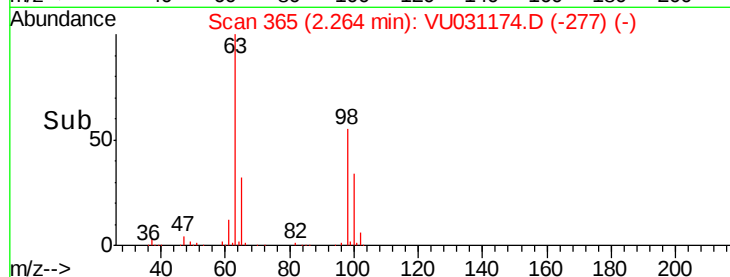
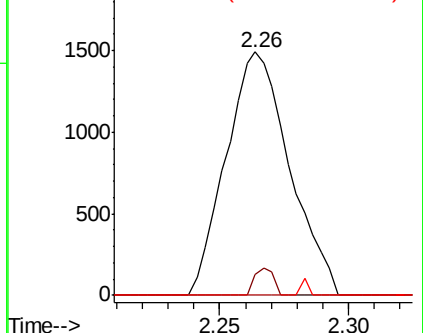
151 0.0 57.4 86.0#



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



#12

1,1-Dichloroethene

Concen: 0.759 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU031174.D

Acq: 13 Apr 2019 22:27

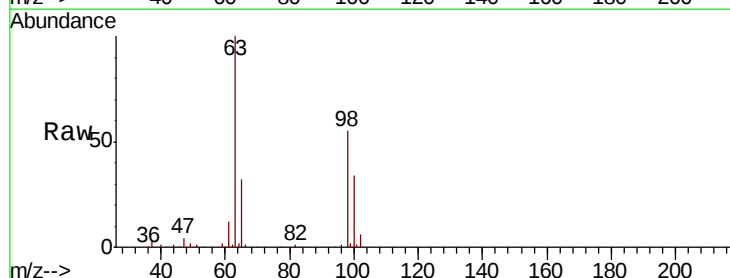
Tgt Ion: 96 Resp: 2247

Ion Ratio Lower Upper

96 100

61 1232.4 132.0 245.2#

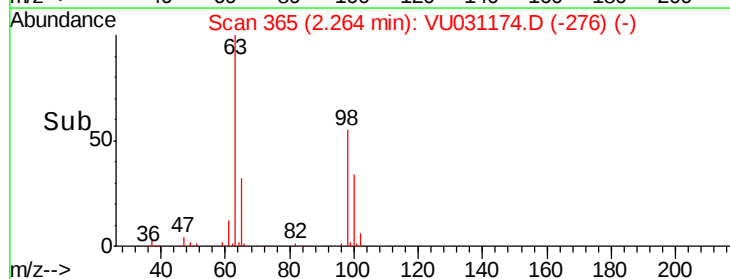
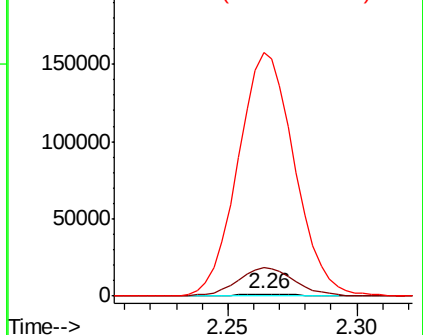
63 10553.8 90.9 168.9#

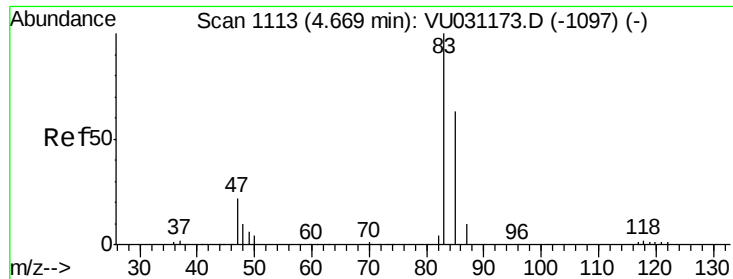


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

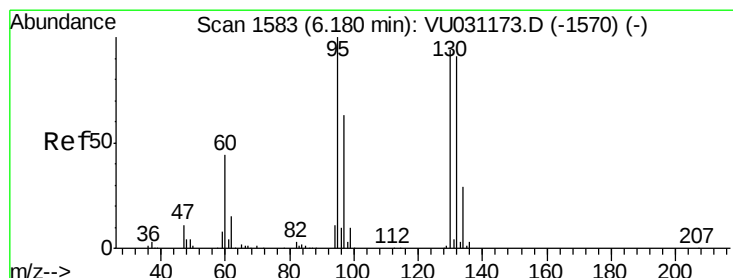
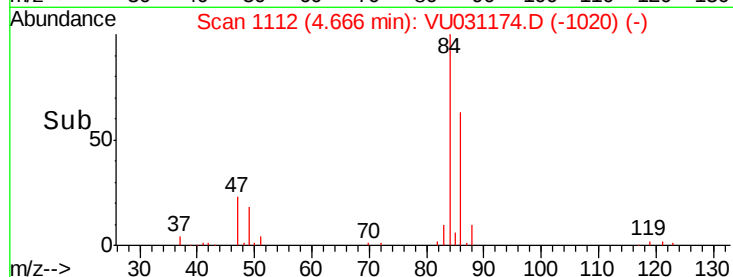
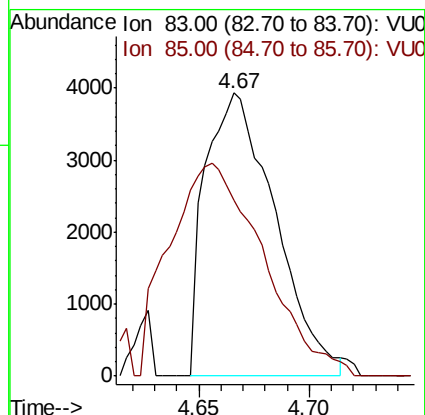
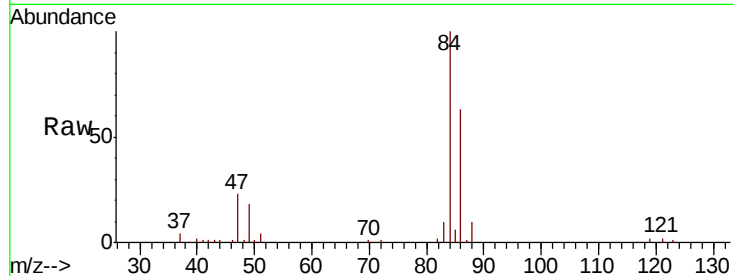




#25  
Chloroform  
Concen: 1.326 ug/L  
RT: 4.67 min Scan# 1112  
Delta R.T. -0.00 min  
Lab File: VU031174.D  
Acq: 13 Apr 2019 22:27

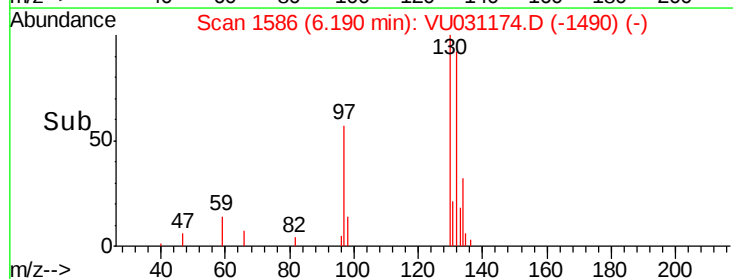
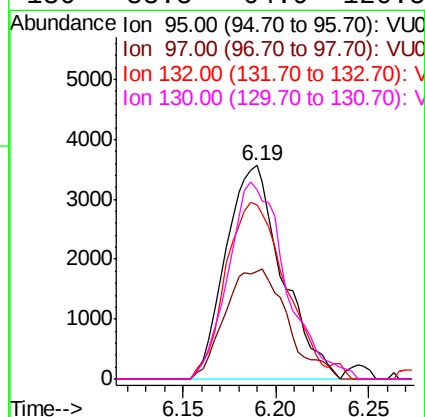
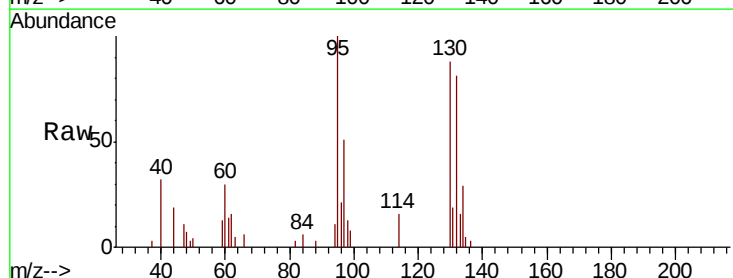
Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK31

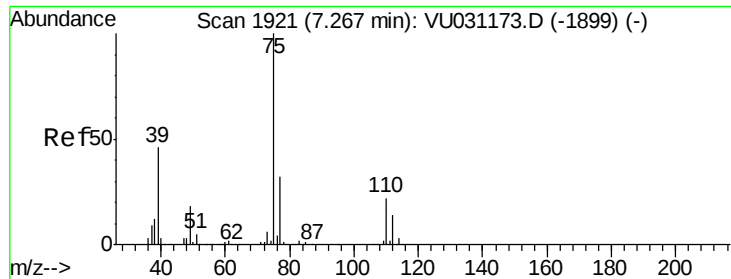
Tot Ion: 83 Resp: 8647  
Ion Ratio Lower Upper  
83 100  
85 62.2 45.8 85.0



#34  
Trichloroethene  
Concen: 2.219 ug/L  
RT: 6.19 min Scan# 1586  
Delta R.T. 0.01 min  
Lab File: VU031174.D  
Acq: 13 Apr 2019 22:27

Tgt Ion: 95 Resp: 7531  
Ion Ratio Lower Upper  
95 100  
97 50.6 44.5 82.7  
132 81.3 61.5 114.1  
130 88.5 64.9 120.5





#39

cis-1,3-Dichloropropene

Concen: 0.899 ug/L

RT: 7.22 min Scan# 1907

Delta R.T. -0.04 min

Lab File: VU031174.D

Acq: 13 Apr 2019 22:27

Instrument :

MSVOA\_U

ClientSampleId :

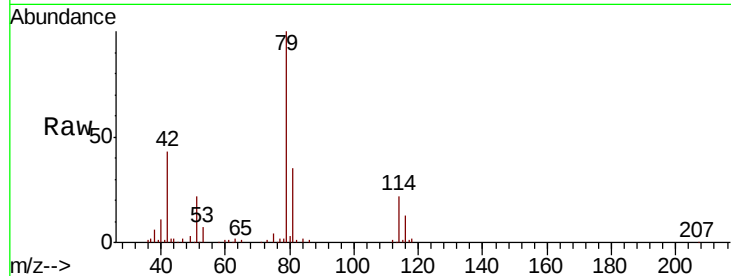
VBLK31

Tot Ion: 75 Resp: 5014

Ion Ratio Lower Upper

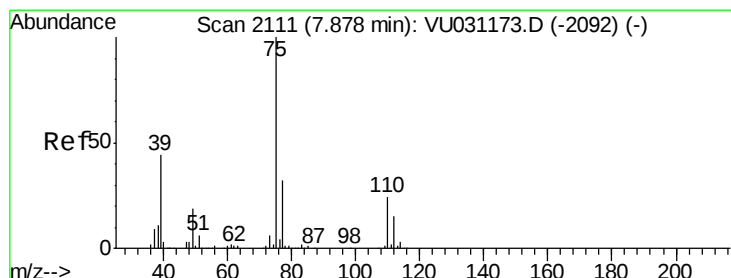
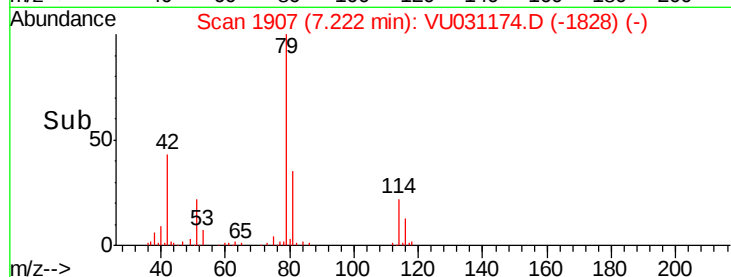
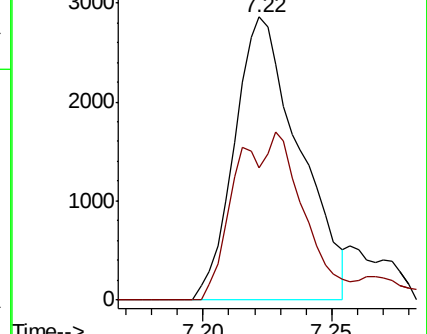
75 100

77 46.8 23.1 42.9#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.748 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.03 min

Lab File: VU031174.D

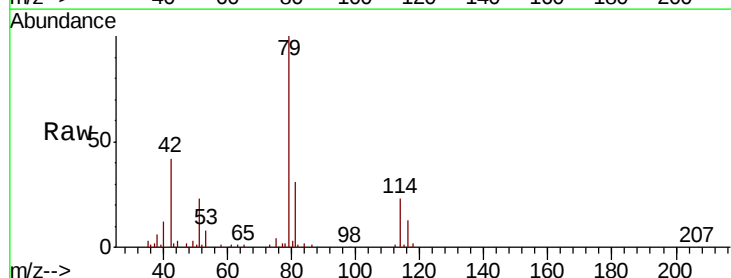
Acq: 13 Apr 2019 22:27

Tgt Ion: 75 Resp: 3676

Ion Ratio Lower Upper

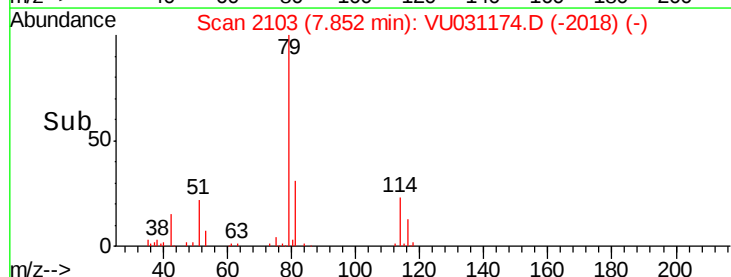
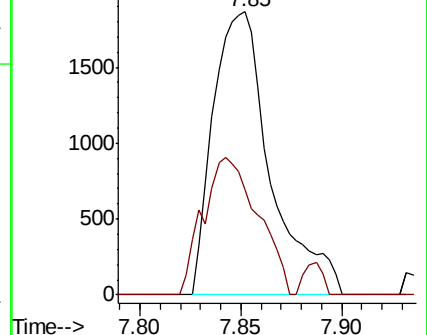
75 100

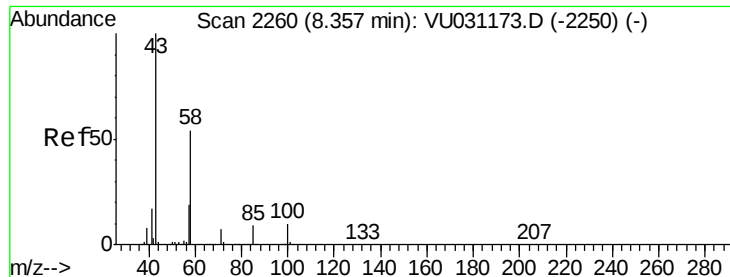
77 37.5 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

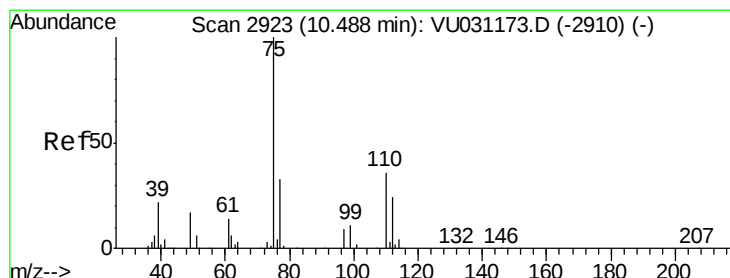
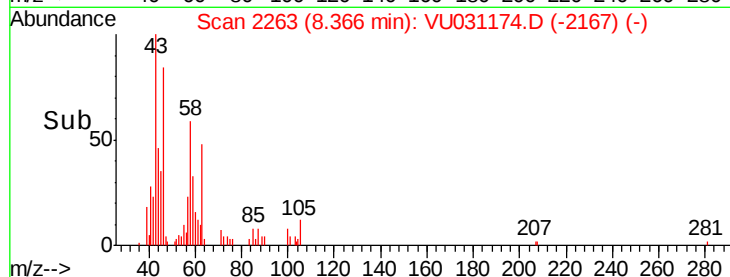
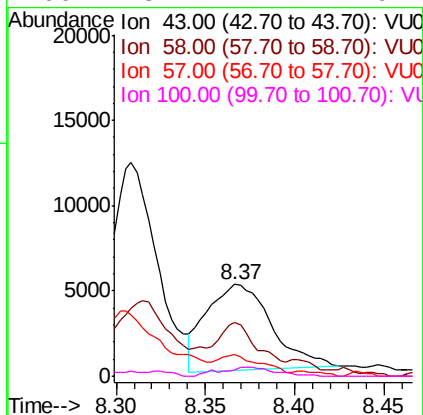
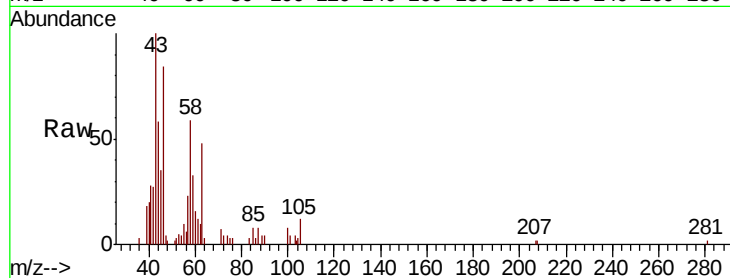




#48  
2-Hexanone  
Concen: 2.610 ug/L  
RT: 8.37 min Scan# 2263  
Delta R.T. 0.01 min  
Lab File: VU031174.D  
Acq: 13 Apr 2019 22:27

Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK31

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 15.9  | 41.9  | 62.9# |
| 57      | 16.7  | 14.3  | 21.5  |
| 100     | 5.1   | 7.1   | 10.7# |



#59  
1,2,3-Trichloropropane  
Concen: 4.161 ug/L  
RT: 11.48 min Scan# 3232  
Delta R.T. 0.99 min  
Lab File: VU031174.D  
Acq: 13 Apr 2019 22:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 37.4  | 26.1  | 39.1  |

