

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\  
 Data File : VU031070.D  
 Acq On : 11 Apr 2019 15:51  
 Operator : JC/SP  
 Sample : K2249-05  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

Quant Time: Apr 12 04:48:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 12 04:43:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 472548   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 462801   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 198549   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 220112   | 52.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 104.36% |
| 7) Chloroethane-d5             | 1.68    | 69    | 167653   | 52.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 104.74% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 295728   | 38.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.52%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 303621   | 90.82    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.82%  |
| 24) Chloroform-d               | 4.64    | 84    | 319505   | 49.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.16%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 223449   | 50.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.64% |
| 32) Benzene-d6                 | 5.33    | 84    | 671395   | 49.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.38%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 222421   | 48.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.08%  |
| 41) Toluene-d8                 | 7.56    | 98    | 588849   | 49.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.34%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 102581   | 48.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.18%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 188137   | 88.90    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.90%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 298676   | 47.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.64%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 206107   | 52.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.56% |

## Target Compounds

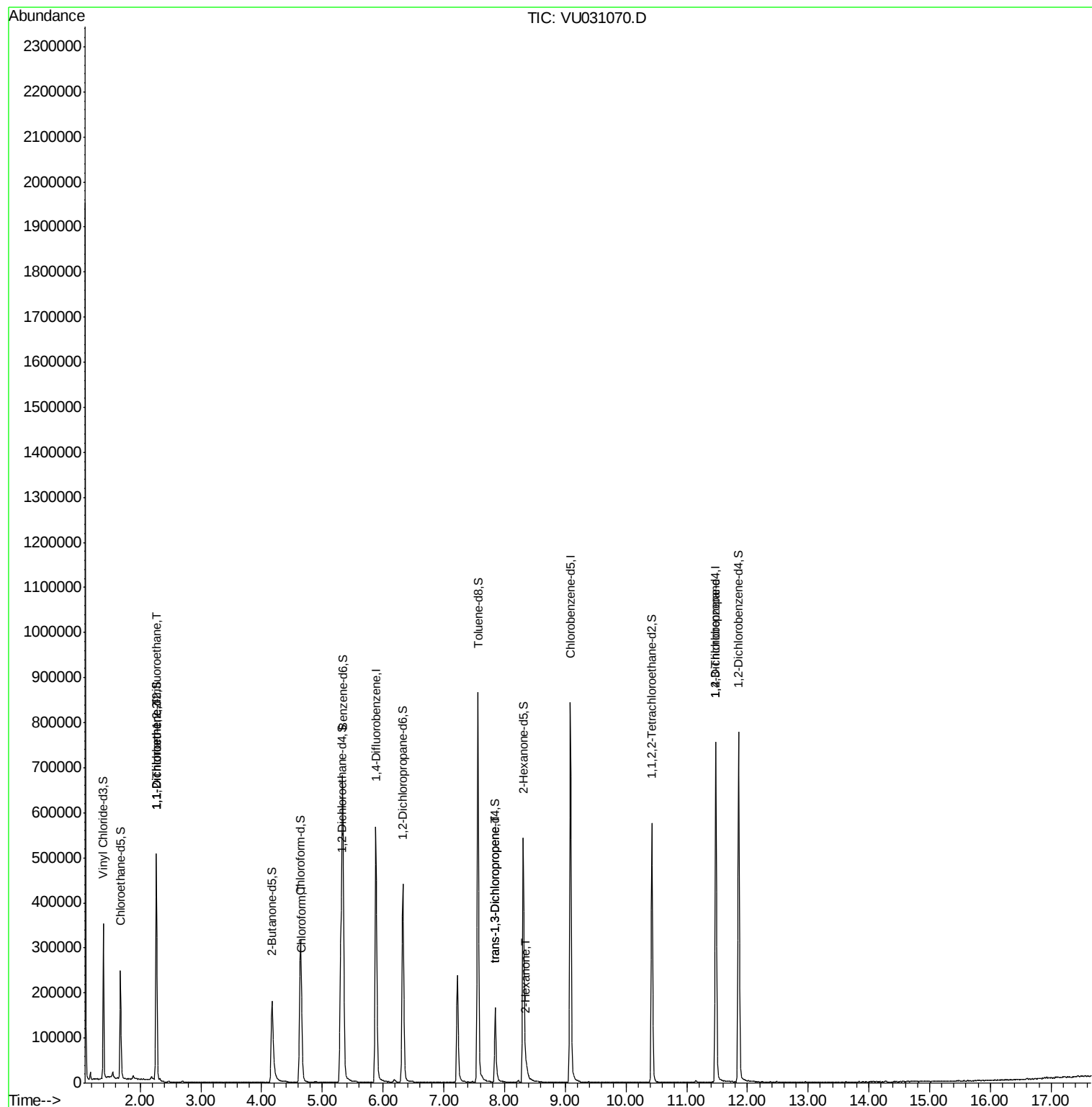
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 2489  | 0.736 ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 2455  | 0.752 ug/L # | 1      |
| 25) Chloroform                 | 4.67  | 83  | 17500 | 2.433 ug/L   | 99     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 4068  | 0.756 ug/L   | 88     |
| 48) 2-Hexanone                 | 8.36  | 43  | 10614 | 1.973 ug/L # | 63     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 26868 | 5.231 ug/L   | 92     |

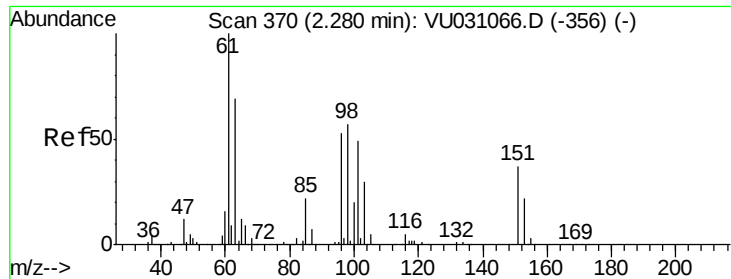
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K2249-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 61 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

Quant Time: Apr 12 04:48:52 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 12 04:43:47 2019  
Response via : Initial Calibration





#10

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

Concen: 0.736 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU031070.D

Acq: 11 Apr 2019 15:51

Instrument :

MSVOA\_U

ClientSampleId :

VHBLK01

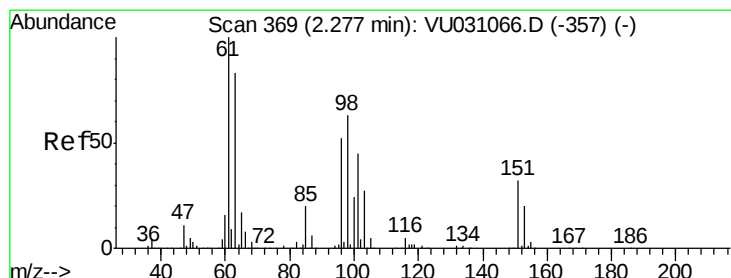
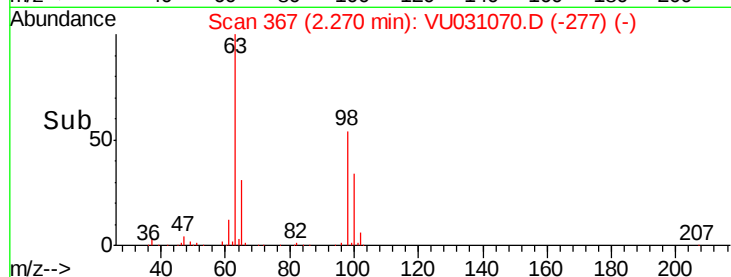
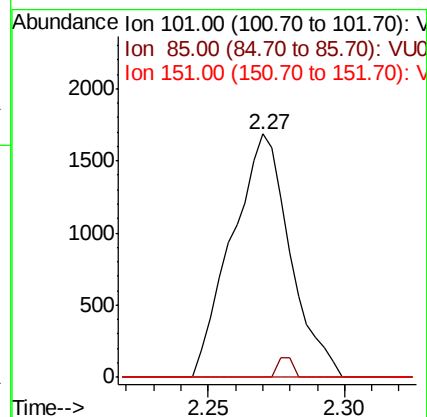
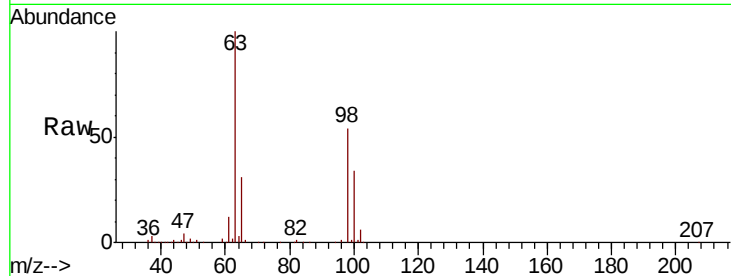
Tot Ion:101 Resp: 2489

Ion Ratio Lower Upper

101 100

85 2.1 36.8 55.2#

151 0.0 57.4 86.0#



#12

1,1-Dichloroethene

Concen: 0.752 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU031070.D

Acq: 11 Apr 2019 15:51

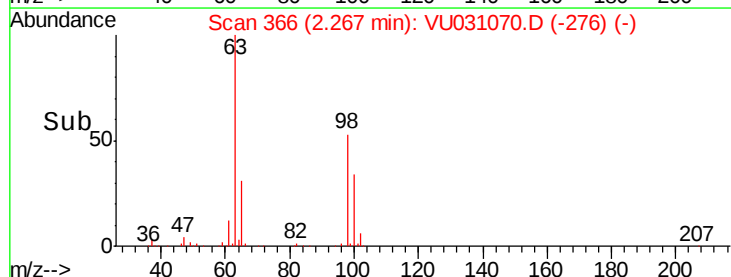
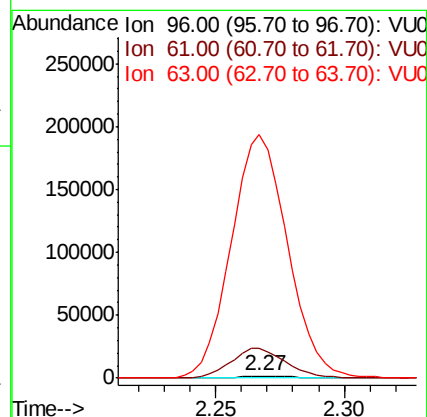
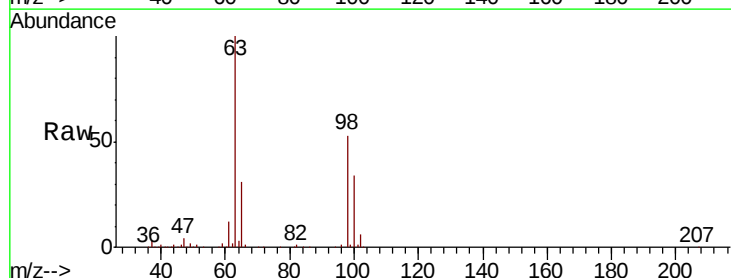
Tgt Ion: 96 Resp: 2455

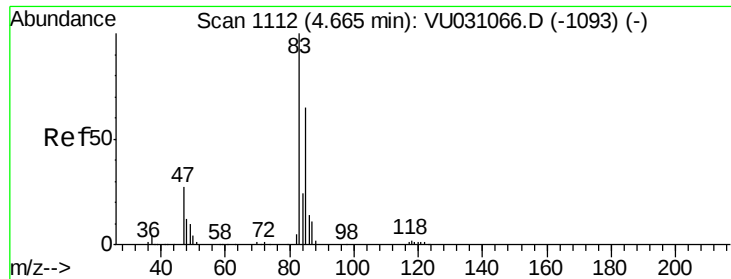
Ion Ratio Lower Upper

96 100

61 1719.3 132.0 245.2#

63 13882.7 90.9 168.9#

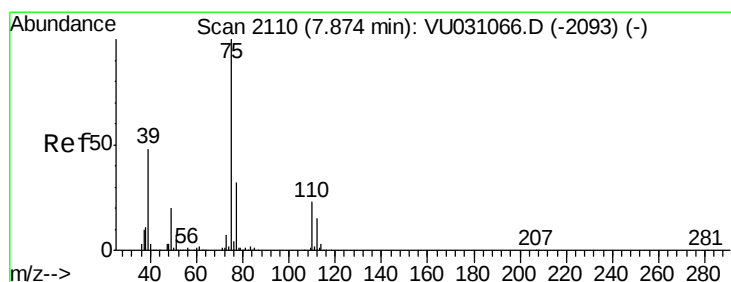
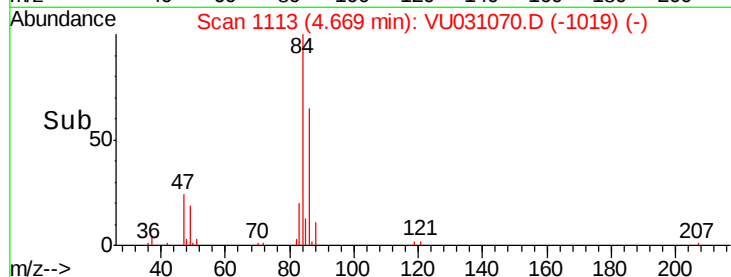
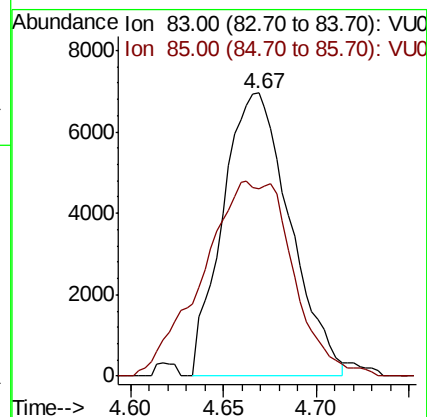
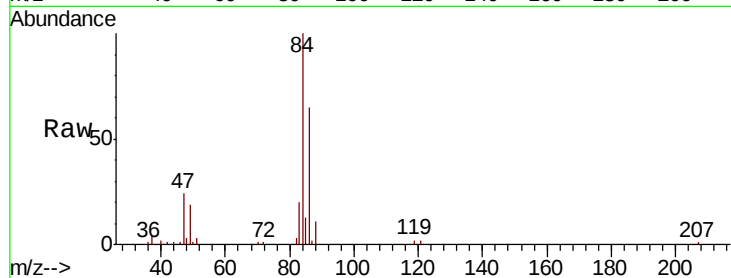




#25  
Chloroform  
Concen: 2.433 ug/L  
RT: 4.67 min Scan# 1113  
Delta R.T. 0.00 min  
Lab File: VU031070.D  
Acq: 11 Apr 2019 15:51

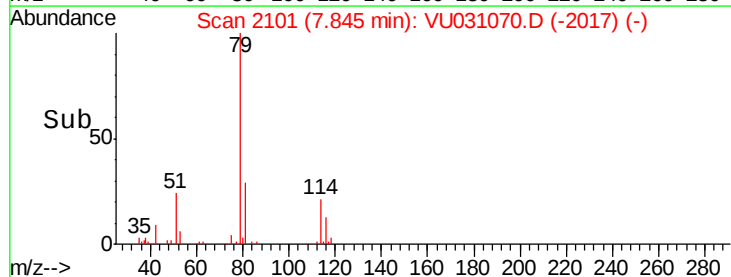
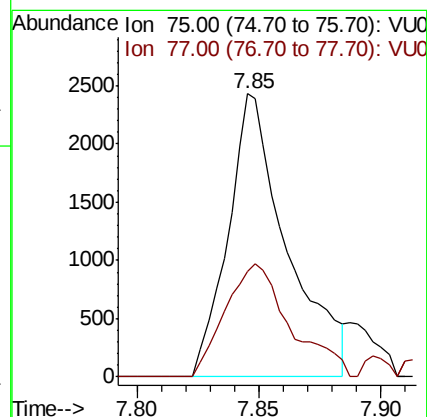
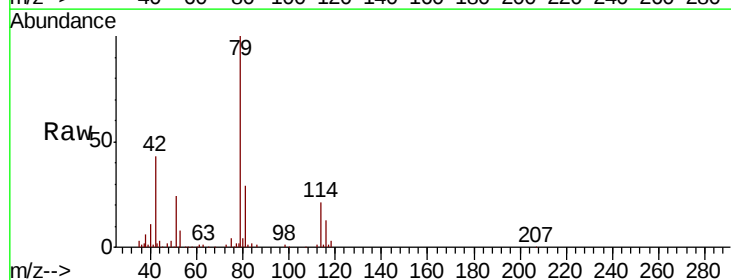
Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

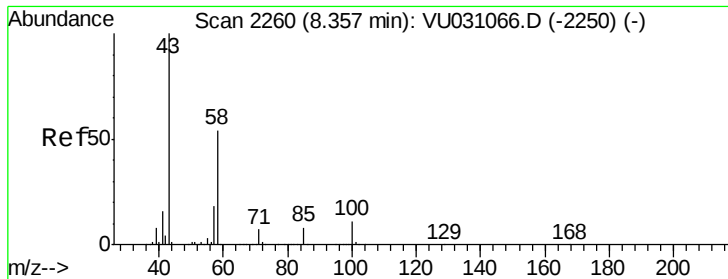
Tot Ion: 83 Resp: 17500  
Ion Ratio Lower Upper  
83 100  
85 66.0 45.8 85.0



#44  
trans-1,3-Dichloropropene  
Concen: 0.756 ug/L  
RT: 7.85 min Scan# 2101  
Delta R.T. -0.03 min  
Lab File: VU031070.D  
Acq: 11 Apr 2019 15:51

Tgt Ion: 75 Resp: 4068  
Ion Ratio Lower Upper  
75 100  
77 37.4 21.6 40.0

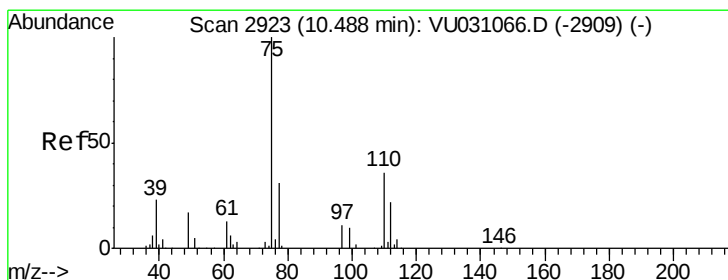
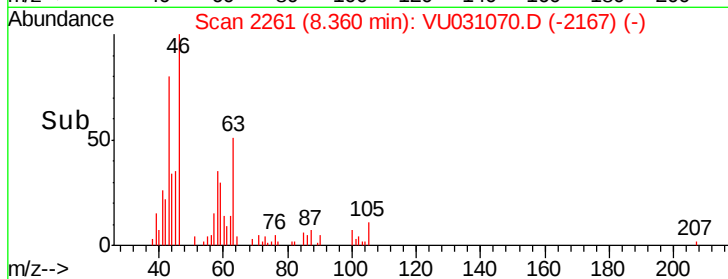
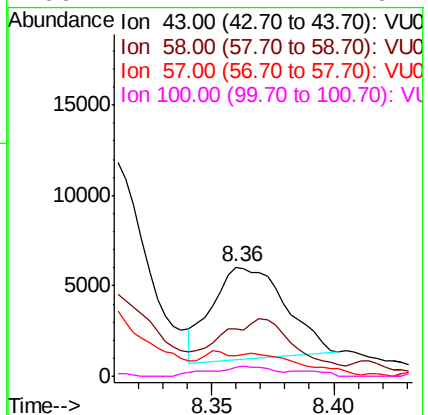
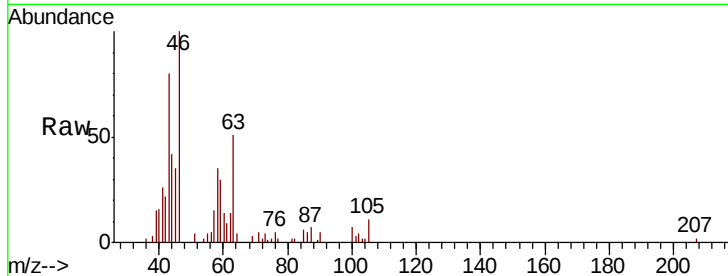




#48  
 2-Hexanone  
 Concen: 1.973 ug/L  
 RT: 8.36 min Scan# 2261  
 Delta R.T. 0.00 min  
 Lab File: VU031070.D  
 Acq: 11 Apr 2019 15:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

Tot Ion: 43 Resp: 10614  
 Ion Ratio Lower Upper  
 43 100  
 58 24.5 41.9 62.9#  
 57 0.0 14.3 21.5#  
 100 4.4 7.1 10.7#



#59  
 1,2,3-Trichloropropane  
 Concen: 5.231 ug/L  
 RT: 11.48 min Scan# 3231  
 Delta R.T. 0.99 min  
 Lab File: VU031070.D  
 Acq: 11 Apr 2019 15:51

Tgt Ion: 75 Resp: 26868  
 Ion Ratio Lower Upper  
 75 100  
 77 37.1 26.1 39.1

