

Data File : VU033926.D  
Acq On : 23 Aug 2019 01:47  
Operator : JC/SP  
Sample : K4485-07  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B65

Quant Time: Aug 23 03:07:40 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 23 02:53:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 553848   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 561704   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 233910   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 214605   | 44.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.38%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 184124   | 47.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.58%  |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 297668   | 33.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.94%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 351088   | 107.42   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.42% |
| 24) Chloroform-d               | 4.62    | 84    | 371309   | 46.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.92%  |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 259902   | 50.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.72% |
| 32) Benzene-d6                 | 5.32    | 84    | 765683   | 47.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.98%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 259471   | 50.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.22% |
| 41) Toluene-d8                 | 7.55    | 98    | 644154   | 44.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.34%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 106725   | 44.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.32%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 236566   | 109.87   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 109.87% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 361146   | 48.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.96%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 241082   | 50.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.02% |

#### Target Compounds

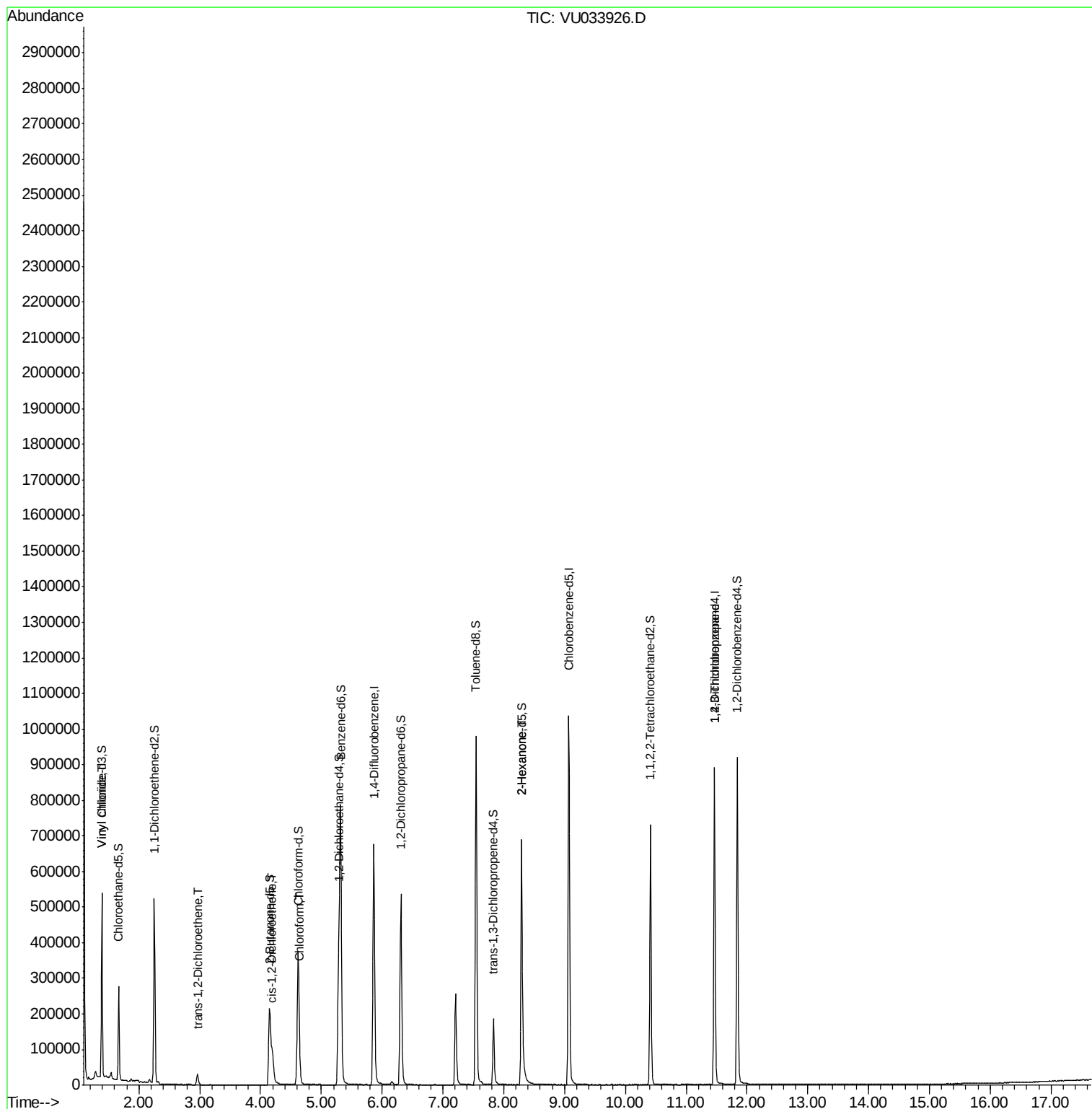
|                              |       |    |        |              | Qvalue |
|------------------------------|-------|----|--------|--------------|--------|
| 5) Vinyl chloride            | 1.39  | 62 | 134565 | 23.253 ug/L  | 92     |
| 17) trans-1,2-Dichloroethene | 2.96  | 96 | 12372  | 3.084 ug/L   | 95     |
| 20) cis-1,2-Dichloroethene   | 4.20  | 96 | 36821  | 8.338 ug/L   | 98     |
| 25) Chloroform               | 4.65  | 83 | 10982  | 1.387 ug/L   | 98     |
| 48) 2-Hexanone               | 8.29  | 43 | 30291  | 5.862 ug/L # | 70     |
| 59) 1,2,3-Trichloropropane   | 11.47 | 75 | 29422  | 4.954 ug/L   | 94     |

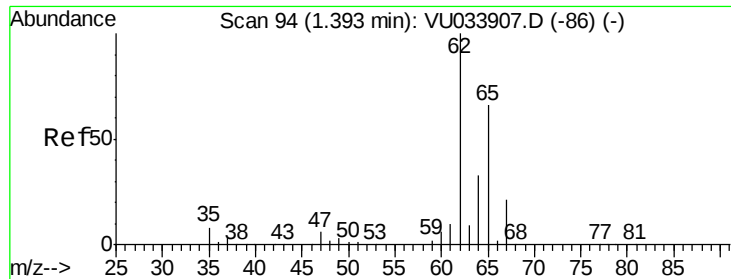
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 23.253 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

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Acq: 23 Aug 2019 01:47

Instrument :

MSVOA\_U

ClientSampleId :

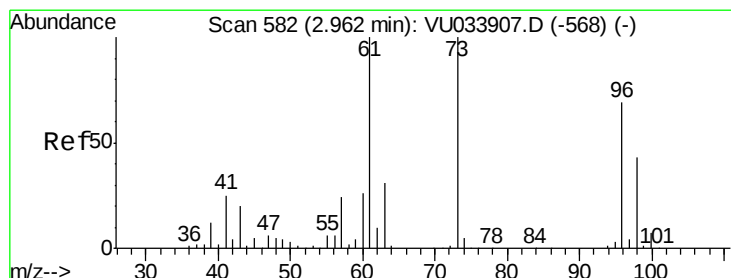
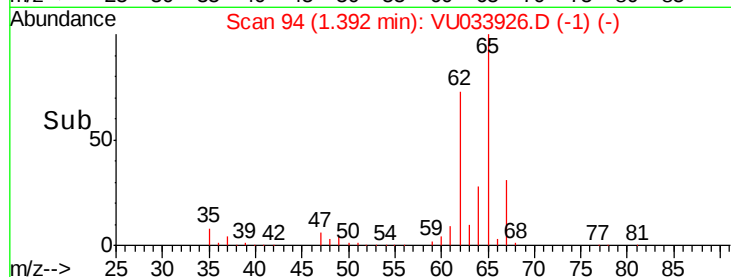
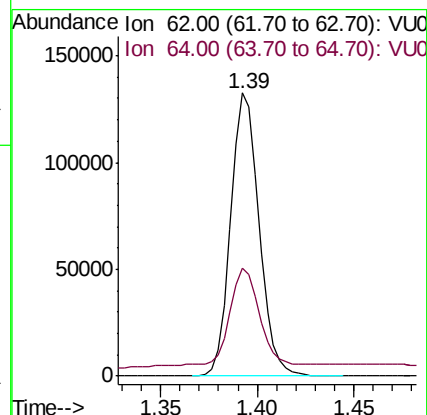
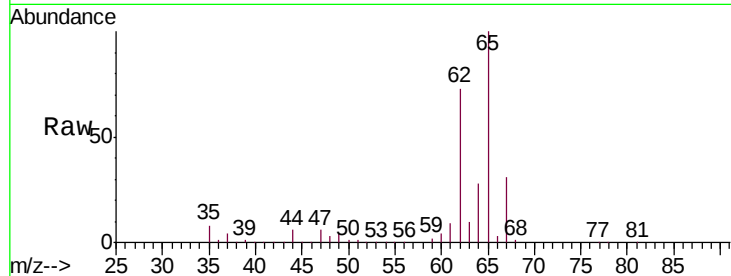
F2B65

Tgt Ion: 62 Resp: 134565

Ion Ratio Lower Upper

62 100

64 38.2 23.7 44.1



#17

trans-1,2-Dichloroethene

Concen: 3.084 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033926.D

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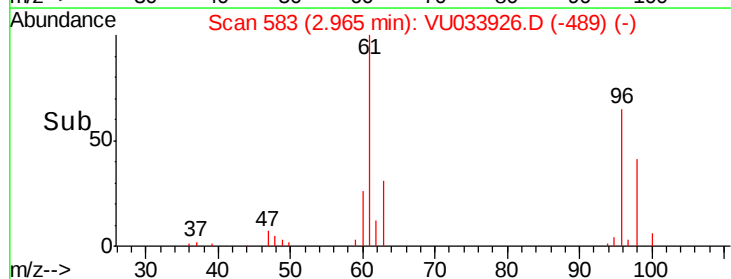
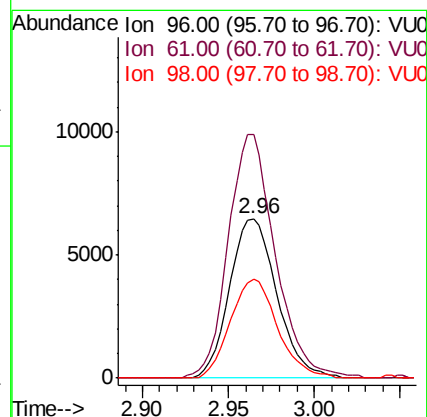
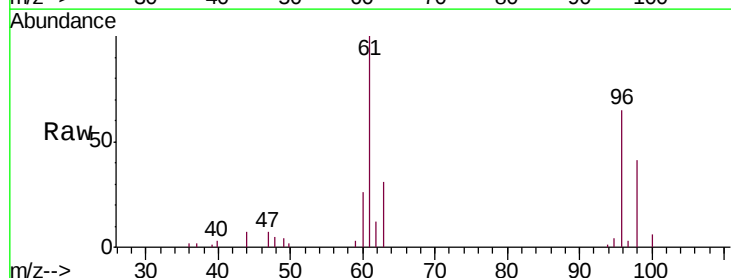
Tgt Ion: 96 Resp: 12372

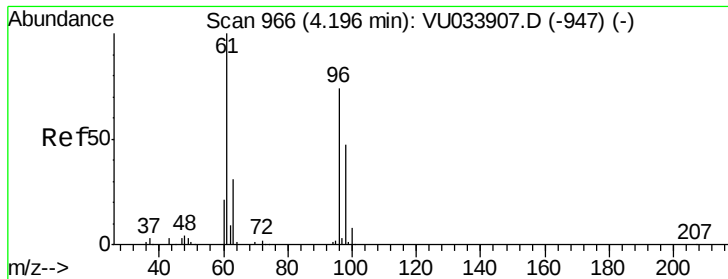
Ion Ratio Lower Upper

96 100

61 152.8 101.2 187.8

98 61.9 44.0 81.6

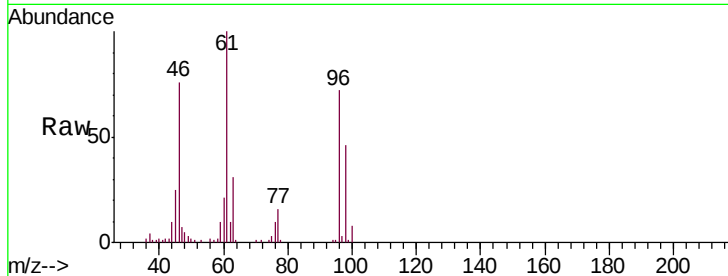




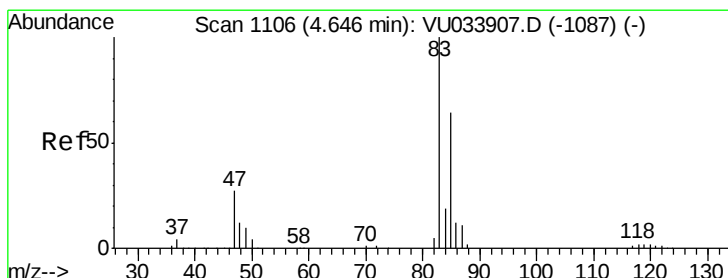
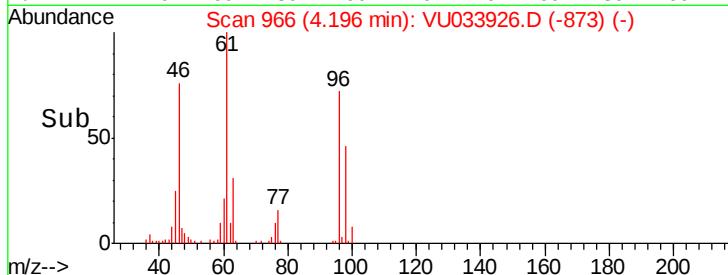
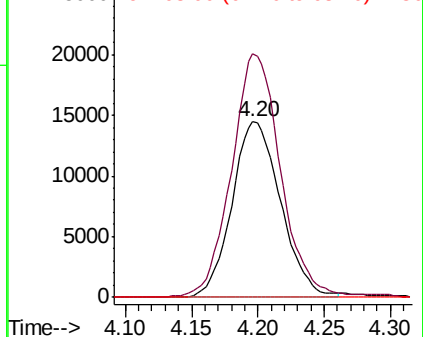
#20  
 cis-1,2-Dichloroethene  
 Concen: 8.338 ug/L  
 RT: 4.20 min Scan# 966  
 Delta R.T. -0.00 min  
 Lab File: VU033926.D  
 Acq: 23 Aug 2019 01:47

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B65

Tgt Ion: 96 Resp: 36821  
 Ion Ratio Lower Upper  
 96 100  
 61 138.8 95.5 177.4  
 68 0.0 0.0 0.0

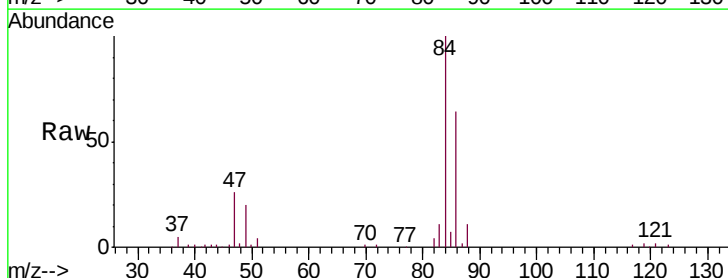


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.00 (60.70 to 61.70): VU0  
 Ion 68.00 (67.70 to 68.70): VU0

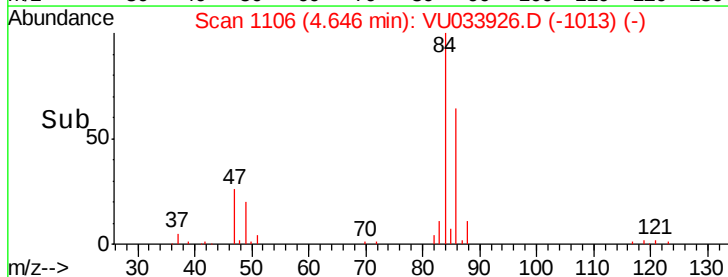
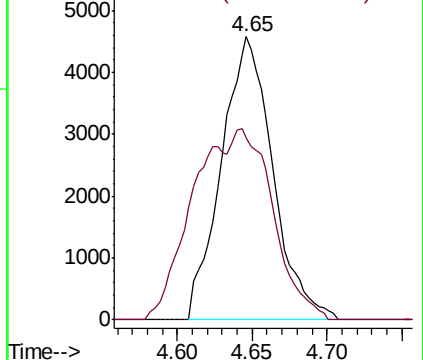


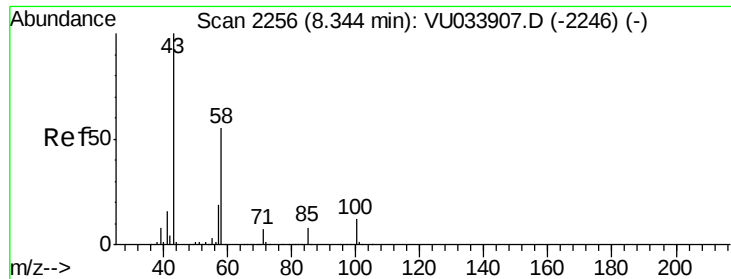
#25  
 Chloroform  
 Concen: 1.387 ug/L  
 RT: 4.65 min Scan# 1106  
 Delta R.T. -0.00 min  
 Lab File: VU033926.D  
 Acq: 23 Aug 2019 01:47

Tgt Ion: 83 Resp: 10982  
 Ion Ratio Lower Upper  
 83 100  
 85 64.5 46.2 85.8



Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

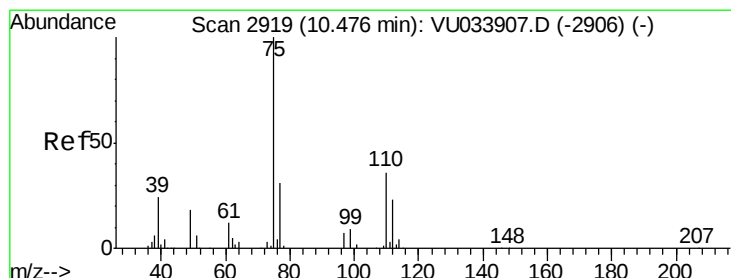
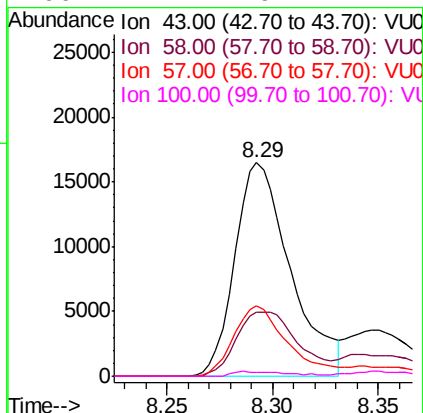
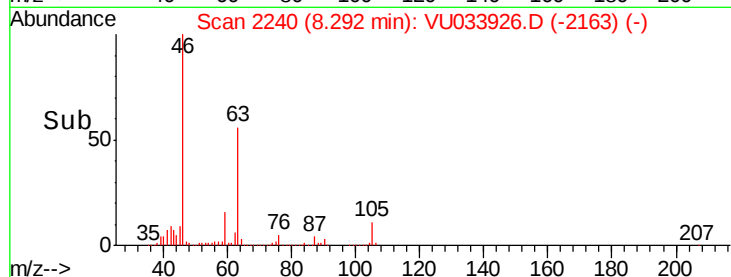
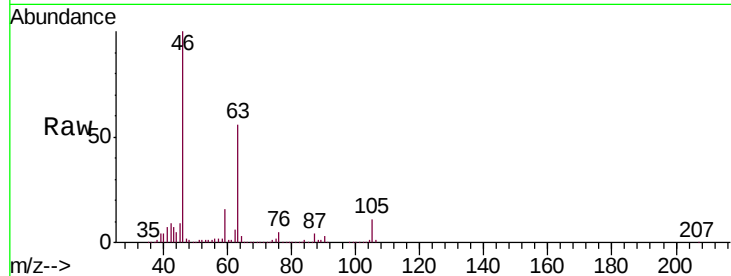




#48  
 2-Hexanone  
 Concen: 5.862 ug/L  
 RT: 8.29 min Scan# 2240  
 Delta R.T. -0.05 min  
 Lab File: VU033926.D  
 Acq: 23 Aug 2019 01:47

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B65

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 30291 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 33.3  | 44.3  | 66.5# |
| 57       | 32.1  | 15.3  | 22.9# |
| 100      | 1.2   | 9.4   | 14.2# |



#59  
 1,2,3-Trichloropropane  
 Concen: 4.954 ug/L  
 RT: 11.47 min Scan# 3227  
 Delta R.T. 0.99 min  
 Lab File: VU033926.D  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 29422 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 35.5  | 25.8  | 38.8  |

