

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\  
 Data File : VU035246.D  
 Acq On : 18 Oct 2019 06:03  
 Operator : JC/SP  
 Sample : K5419-15  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0FZ4

Quant Time: Oct 18 07:42:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 18 07:32:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 349304   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 345495   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.85 | 152  | 131174   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.62   | 65    | 115456   | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 108.40% |
| 7) Chloroethane-d5             | 1.94   | 69    | 99440    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 102.20% |
| 11) 1,1-Dichloroethene-d2      | 2.60   | 63    | 153347   | 3.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.80%  |
| 20) 2-Butanone-d5              | 4.71   | 46    | 285293   | 46.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.22%  |
| 24) Chloroform-d               | 5.11   | 84    | 183567   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 111951   | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.80% |
| 32) Benzene-d6                 | 5.77   | 84    | 405504   | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.60% |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 130202   | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.80% |
| 41) Toluene-d8                 | 7.93   | 98    | 390987   | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.40% |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 54714    | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.80%  |
| 46) 2-Hexanone-d5              | 8.70   | 63    | 239217   | 44.55    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.10%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 105086   | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.23  | 152   | 122510   | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.60% |

## Target Compounds

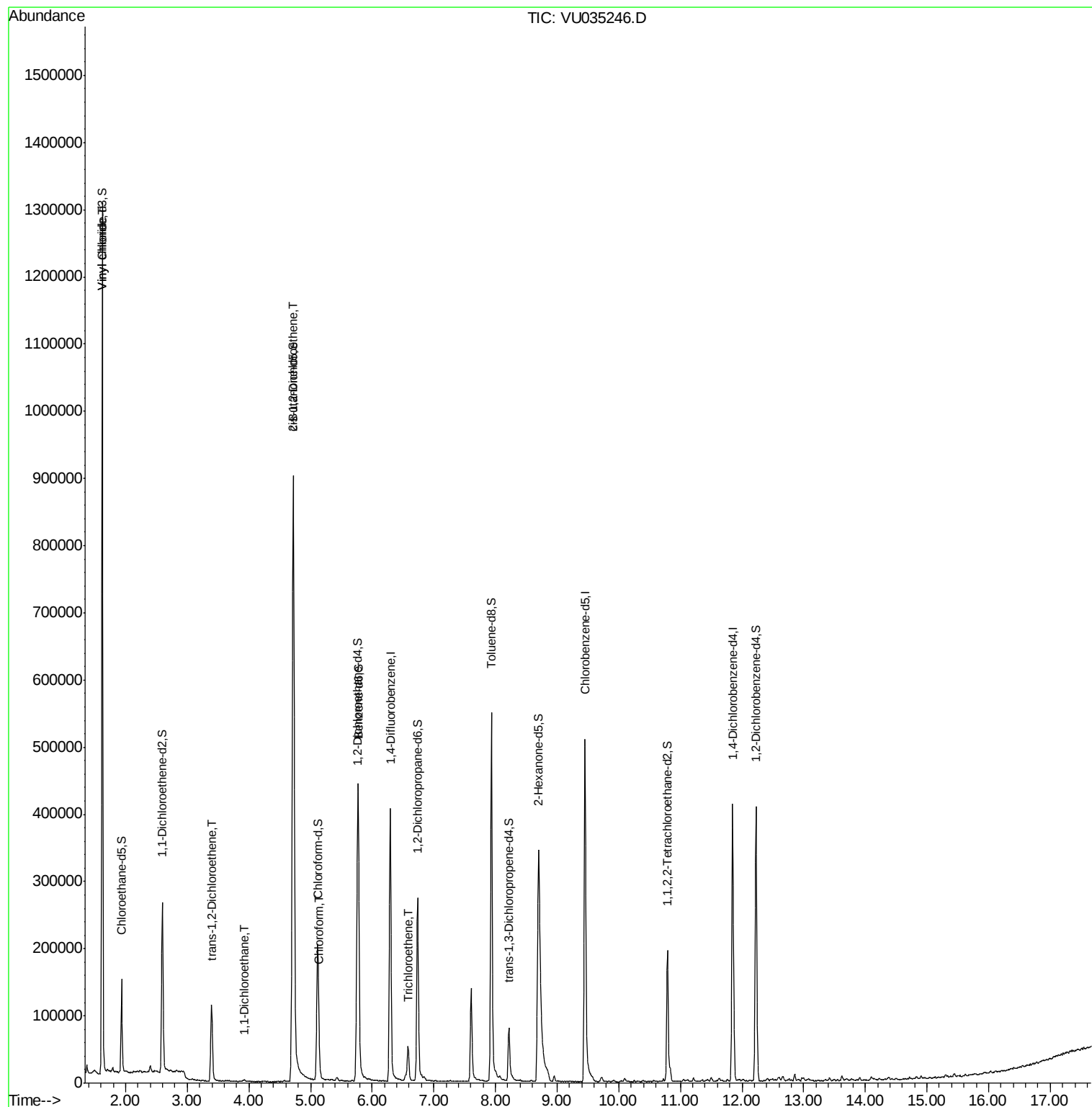
|                              |      |    |        |        | Ovalue    |
|------------------------------|------|----|--------|--------|-----------|
| 5) Vinyl chloride            | 1.62 | 62 | 778950 | 25.720 | ug/L 100  |
| 18) trans-1,2-Dichloroethene | 3.39 | 96 | 51143  | 2.112  | ug/L 97   |
| 19) 1,1-Dichloroethane       | 3.93 | 63 | 3620   | 0.083  | ug/L # 96 |
| 22) cis-1,2-Dichloroethene   | 4.72 | 96 | 419634 | 15.677 | ug/L 100  |
| 25) Chloroform               | 5.14 | 83 | 16968  | 0.353  | ug/L 89   |
| 34) Trichloroethene          | 6.58 | 95 | 16843  | 0.616  | ug/L 95   |

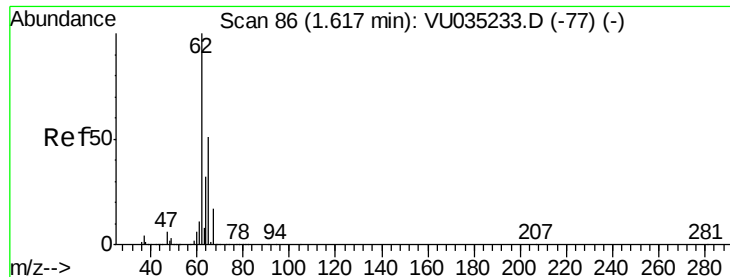
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 18 07:32:05 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 25.720 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VU035246.D

Acq: 18 Oct 2019 06:03

Instrument :

MSVOA\_U

ClientSampleId :

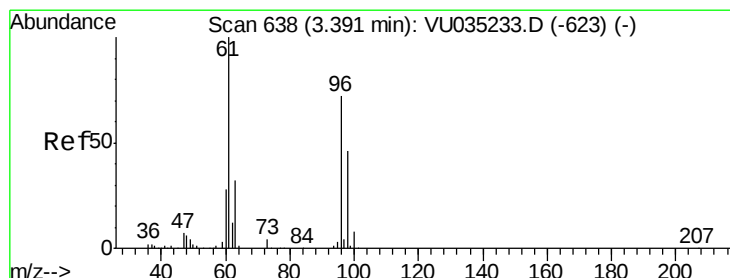
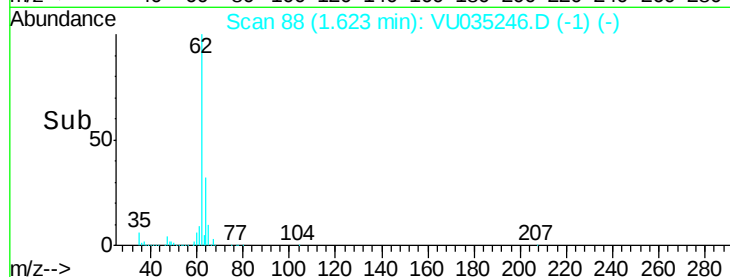
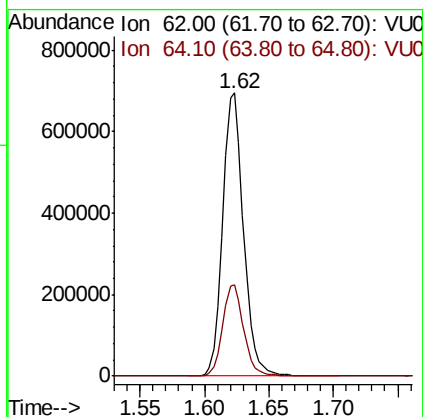
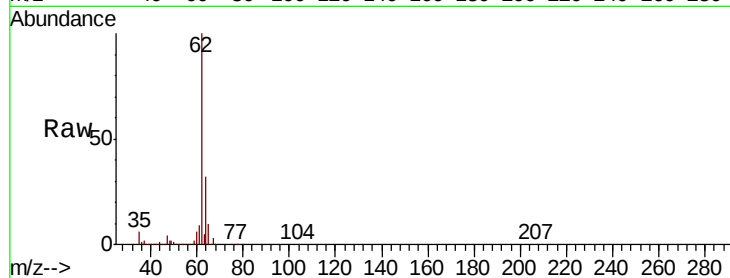
H0FZ4

Tot Ion: 62 Resp: 778950

Ion Ratio Lower Upper

62 100

64 32.5 22.9 42.5



#18

trans-1,2-Dichloroethene

Concen: 2.112 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035246.D

Acq: 18 Oct 2019 06:03

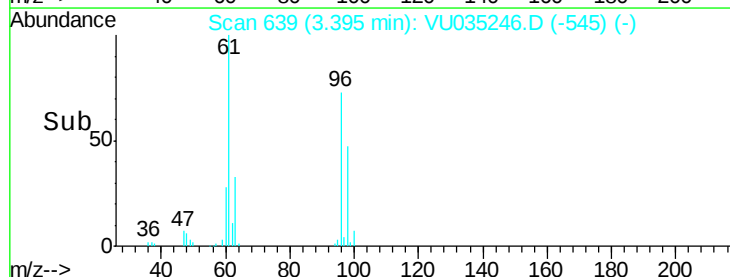
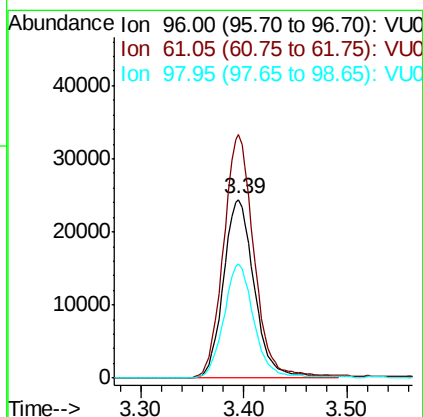
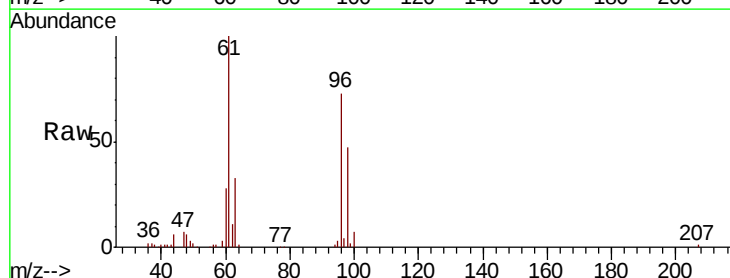
Tgt Ion: 96 Resp: 51143

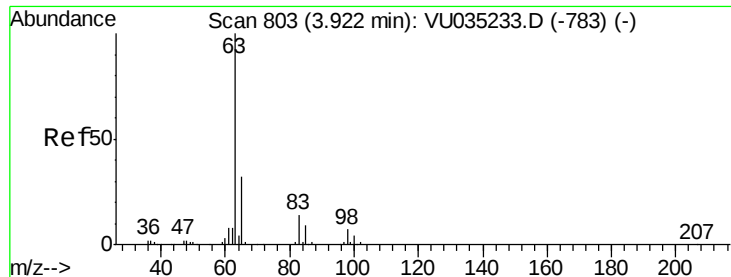
Ion Ratio Lower Upper

96 100

61 136.3 93.0 172.6

98 63.8 43.7 81.1





#19

1,1-Dichloroethane

Concen: 0.083 ug/L

RT: 3.93 min Scan# 804

Delta R.T. 0.00 min

Lab File: VU035246.D

Acq: 18 Oct 2019 06:03

Instrument :

MSVOA\_U

ClientSampleId :

H0FZ4

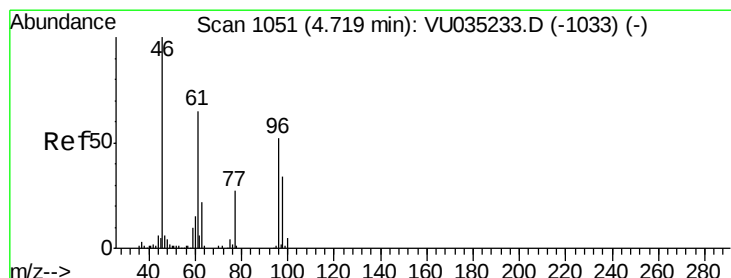
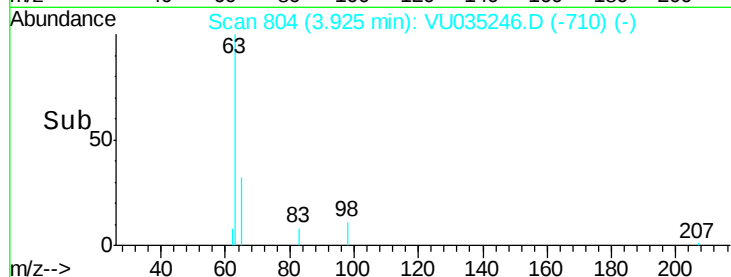
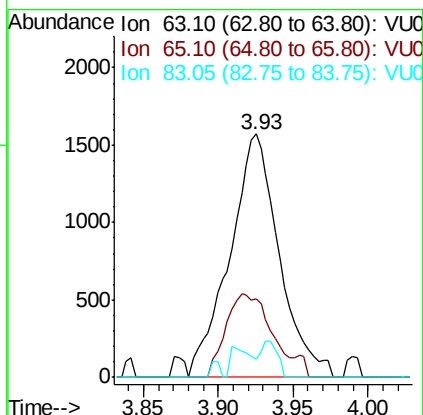
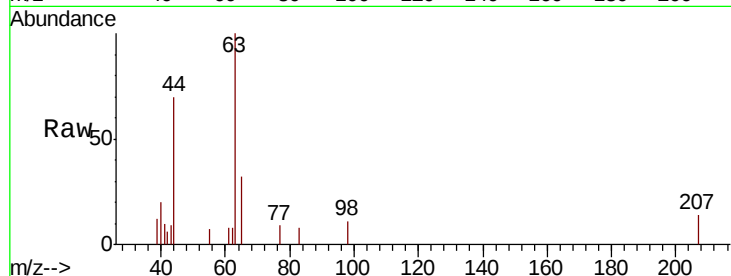
Tot Ion: 63 Resp: 3620

Ion Ratio Lower Upper

63 100

65 32.0 22.4 41.6

83 7.8 9.3 17.3#



#22

cis-1,2-Dichloroethene

Concen: 15.677 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU035246.D

Acq: 18 Oct 2019 06:03

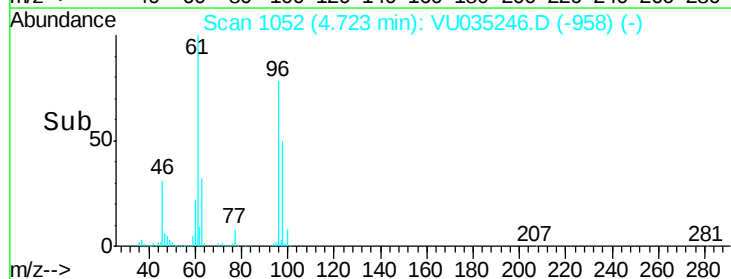
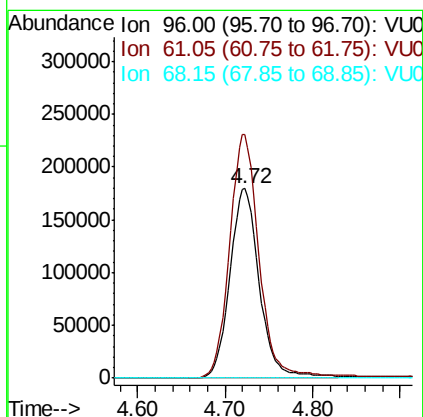
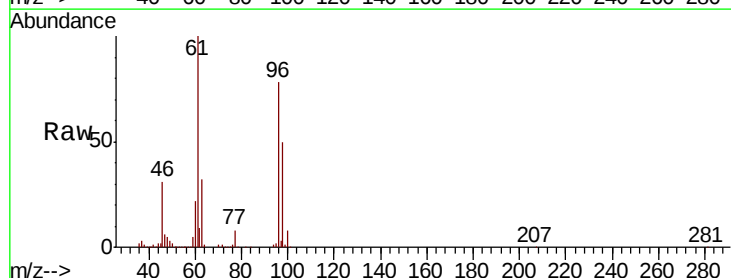
Tgt Ion: 96 Resp: 419634

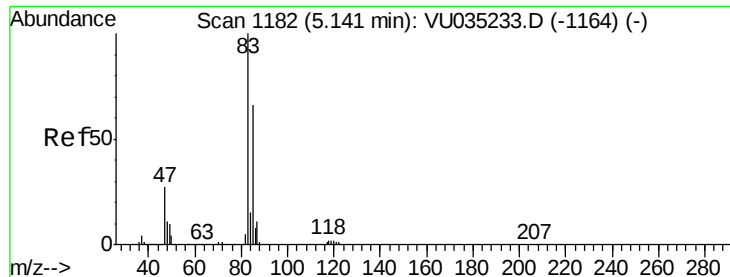
Ion Ratio Lower Upper

96 100

61 128.4 89.7 166.5

68 0.0 0.0 0.0

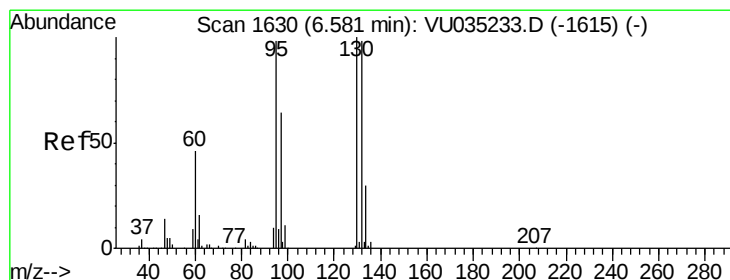
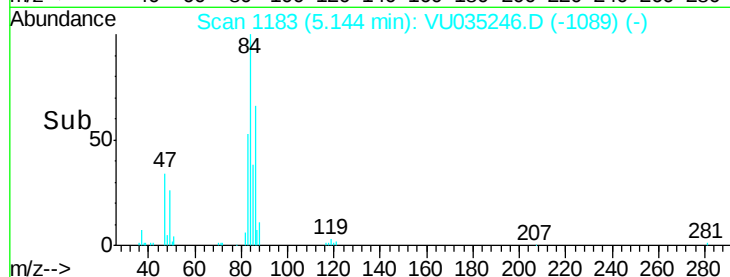
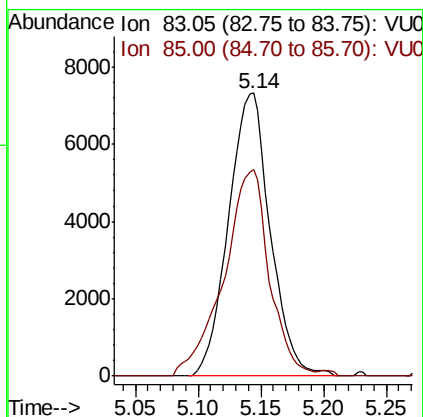
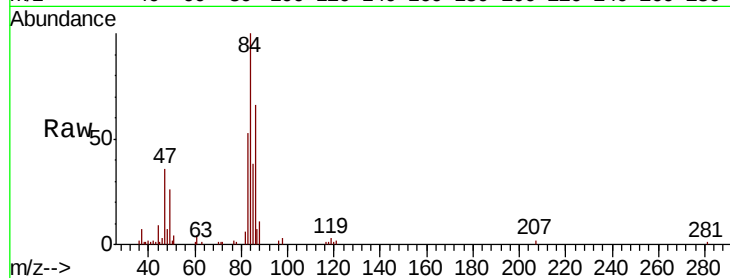




#25  
Chloroform  
Concen: 0.353 ug/L  
RT: 5.14 min Scan# 1183  
Delta R.T. 0.00 min  
Lab File: VU035246.D  
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H0FZ4

Tot Ion: 83 Resp: 16968  
Ion Ratio Lower Upper  
83 100  
85 72.9 45.1 83.9



#34  
Trichloroethene  
Concen: 0.616 ug/L  
RT: 6.58 min Scan# 1631  
Delta R.T. 0.00 min  
Lab File: VU035246.D  
Acq: 18 Oct 2019 06:03

Tgt Ion: 95 Resp: 16843  
Ion Ratio Lower Upper  
95 100  
97 71.6 46.6 86.6  
132 104.9 68.7 127.7  
130 104.1 73.9 137.3

