

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072519\  
 Data File : VU033428.D  
 Acq On : 25 Jul 2019 22:37  
 Operator : JC/SP  
 Sample : K3976-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0CB3

Manual Integrations  
 APPROVED

MMDadoda  
 7/26/2019 10:53:29 AM

Quant Time: Jul 26 07:28:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 26 05:48:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 284425   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 284281   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 125543   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 129071   | 59.95    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 119.90%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 113178   | 61.53    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 123.06%  |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 170334   | 43.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.22%   |
| 21) 2-Butanone-d5              | 4.15    | 46    | 153369   | 112.42   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 112.42%  |
| 24) Chloroform-d               | 4.62    | 84    | 199427   | 55.27    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.54%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 135645   | 58.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 117.22%  |
| 32) Benzene-d6                 | 5.32    | 84    | 416676   | 59.75    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 119.50%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 129414   | 57.93    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 115.86%  |
| 41) Toluene-d8                 | 7.55    | 98    | 374957   | 57.01    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 114.02%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 60837    | 55.54    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 111.08%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 111886   | 111.10   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 111.10%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 192095   | 56.81    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 113.62%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 141169   | 63.05    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 126.10%# |

## Target Compounds

| Target Compounds           | R.T. | QIon | Response | Conc     | Units | Ovalue |
|----------------------------|------|------|----------|----------|-------|--------|
| 13) Acetone                | 2.31 | 43   | 3378     | 1.982    | ug/L  | 95     |
| 15) Methyl Acetate         | 2.60 | 43   | 4914     | 2.208    | ug/L  | 91     |
| 20) cis-1,2-Dichloroethene | 4.20 | 96   | 36304    | 16.404   | ug/L  | 95     |
| 31) Carbon tetrachloride   | 5.12 | 117  | 2053m    | 0.707    | ug/L  |        |
| 34) Trichloroethene        | 6.17 | 95   | 13875031 | 6399.434 | ug/L  | 97     |
| 45) 1,1,2-Trichloroethane  | 8.05 | 97   | 4346     | 2.044    | ug/L  | 90     |
| 46) Tetrachloroethene      | 8.21 | 164  | 9633     | 5.739    | ug/L  | 94     |

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

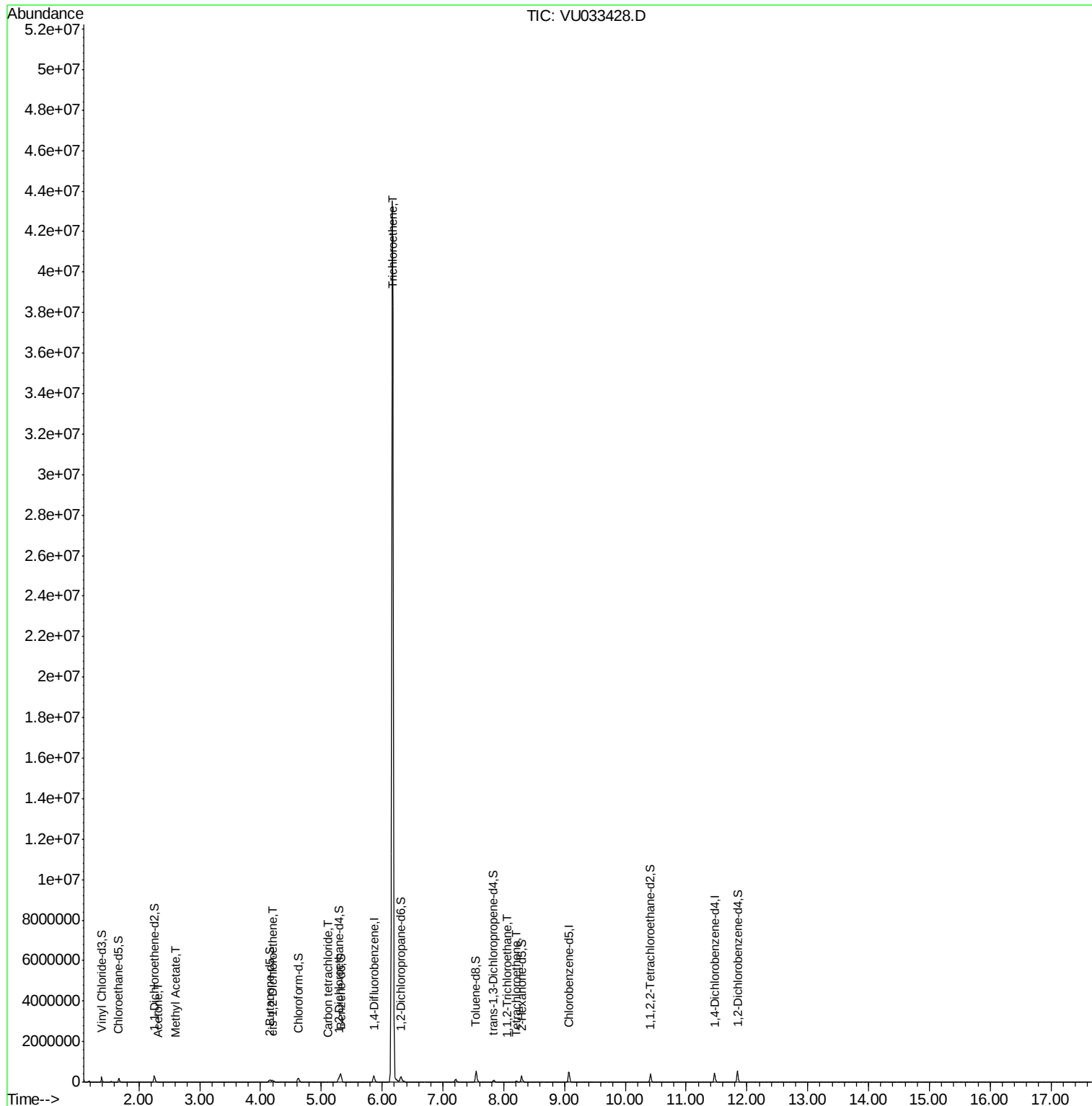
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072519\  
Data File : VU033428.D  
Acq On : 25 Jul 2019 22:37  
Operator : JC/SP  
Sample : K3976-02  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 36 Sample Multiplier: 1

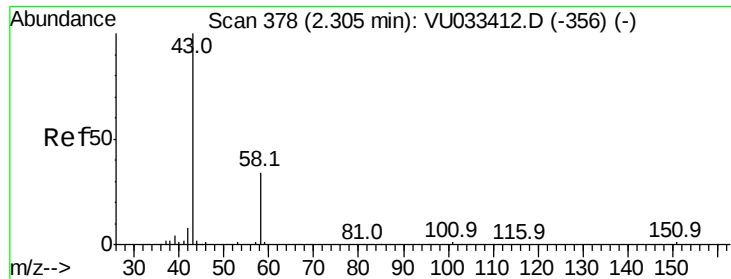
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0CB3

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Quant Time: Jul 26 07:28:38 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 26 05:48:12 2019  
Response via : Initial Calibration





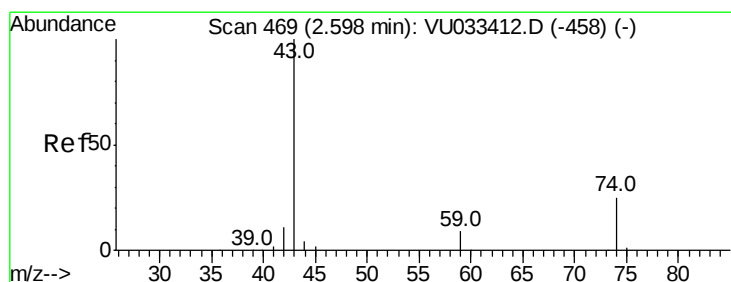
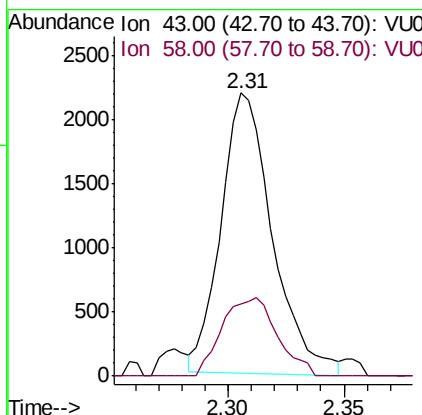
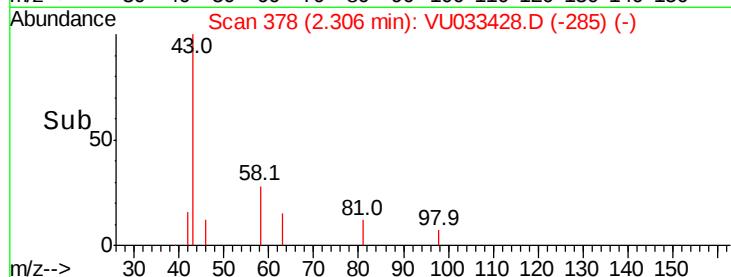
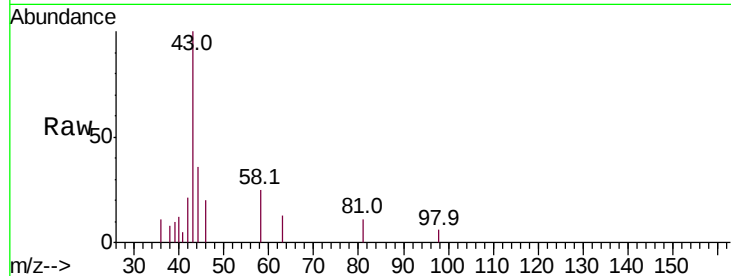
#13  
Acetone  
Concen: 1.982 ug/L  
RT: 2.31 min Scan# 378  
Delta R.T. 0.00 min  
Lab File: VU033428.D  
Acq: 25 Jul 2019 22:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0CB3

| Tot Ion | 43 | 58 | Ratio | 100 | 30.1 | Resp: | 3378 | Lower | Upper |
|---------|----|----|-------|-----|------|-------|------|-------|-------|
| Ion     | 43 | 58 | Ratio | 100 | 30.1 | Resp: | 3378 | Lower | Upper |
|         |    |    |       |     |      |       |      | 0.0   | 65.4  |

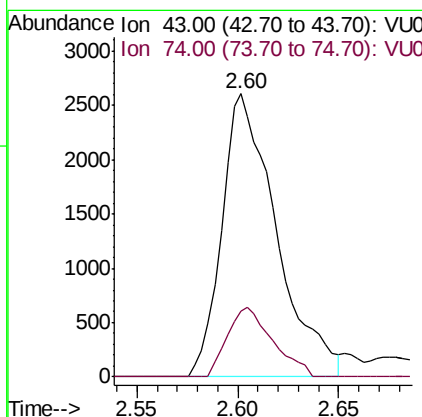
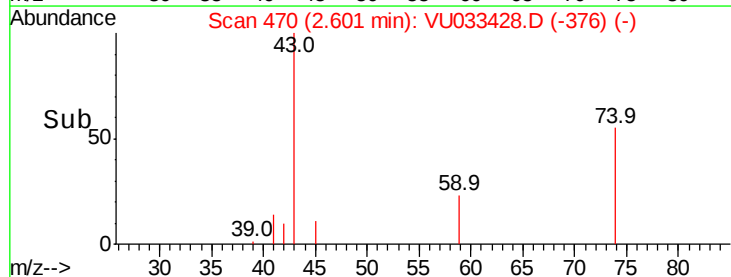
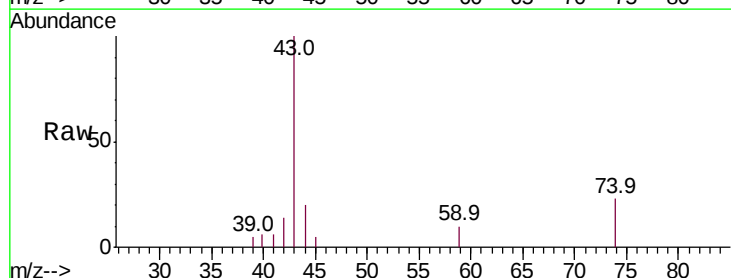
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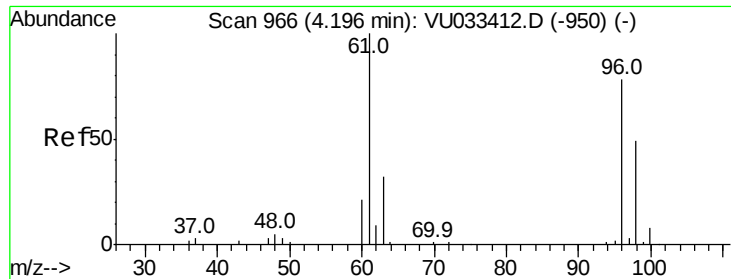
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#15  
Methyl Acetate  
Concen: 2.208 ug/L  
RT: 2.60 min Scan# 470  
Delta R.T. 0.00 min  
Lab File: VU033428.D  
Acq: 25 Jul 2019 22:37

| Tgt Ion | 43 | 74 | Ratio | 100 | 20.5 | Resp: | 4914 | Lower | Upper |
|---------|----|----|-------|-----|------|-------|------|-------|-------|
| Ion     | 43 | 74 | Ratio | 100 | 20.5 | Resp: | 4914 | Lower | Upper |
|         |    |    |       |     |      |       |      | 19.9  | 29.9  |





#20

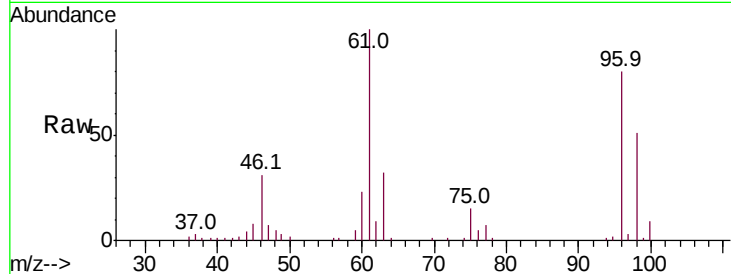
cis-1,2-Dichloroethene  
 Concen: 16.404 ug/L  
 RT: 4.20 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: VU033428.D  
 Acq: 25 Jul 2019 22:37

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C0CB3

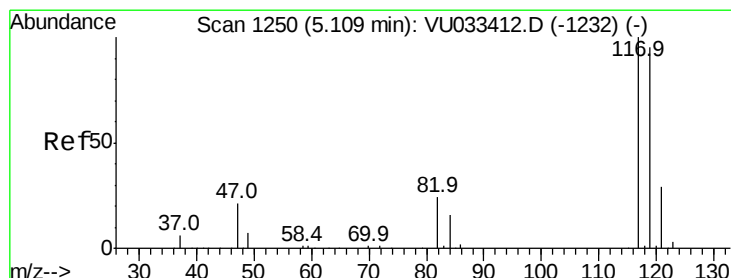
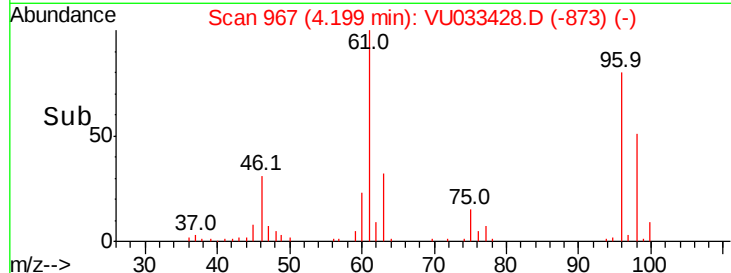
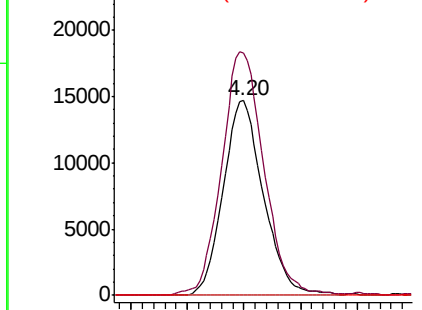
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 124.3 | 91.1  | 169.1 |
| 68      | 0.0   | 0.0   | 0.0   |

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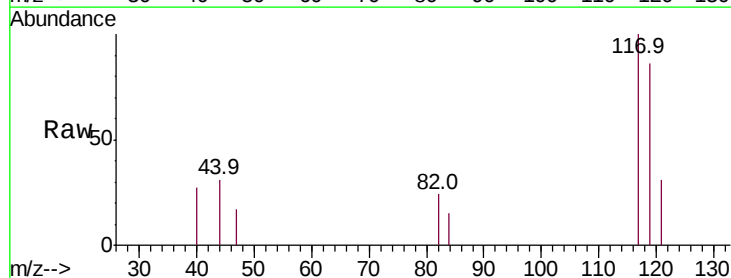
Abundance Ion 96.00 (95.70 to 96.70): VU033412.D (-950) (-)



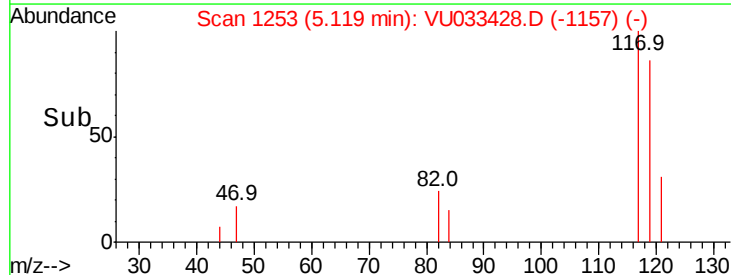
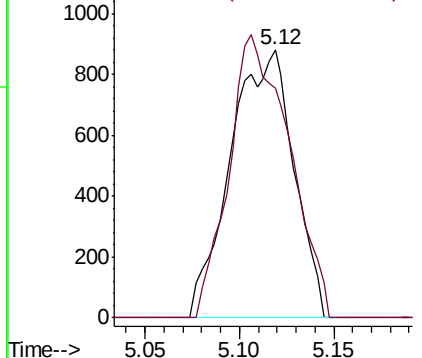
#31

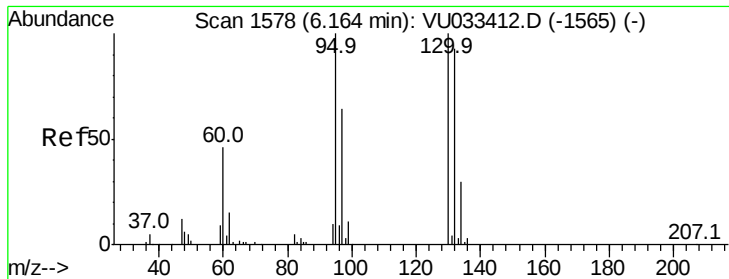
Carbon tetrachloride  
 Concen: 0.707 ug/L m  
 RT: 5.12 min Scan# 1253  
 Delta R.T. 0.01 min  
 Lab File: VU033428.D  
 Acq: 25 Jul 2019 22:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 100.4 | 76.9  | 115.3 |



Abundance Ion 117.00 (116.70 to 117.70): VU033412.D (-1232) (-)





#34

Trichloroethene

Concen: 6399.434 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033428.D

Acq: 25 Jul 2019 22:37

Instrument :

MSVOA\_U

ClientSampleId :

C0CB3

Tot Ion: 95 Resp:13875031

Ion Ratio Lower Upper

95 100

97 66.3 43.8 81.4

132 91.9 65.5 121.6

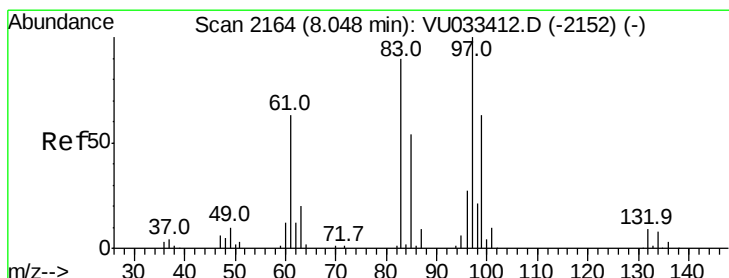
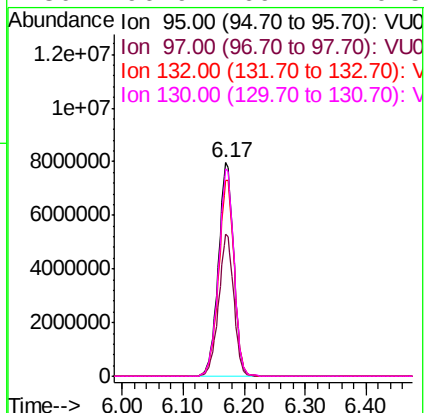
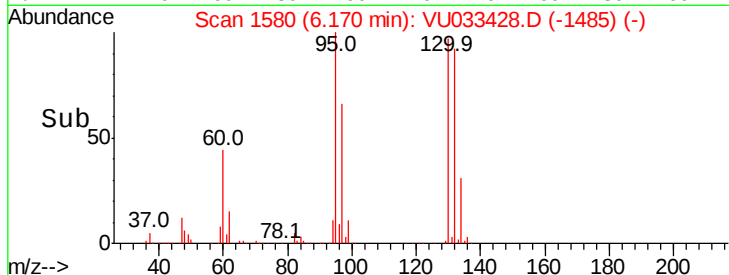
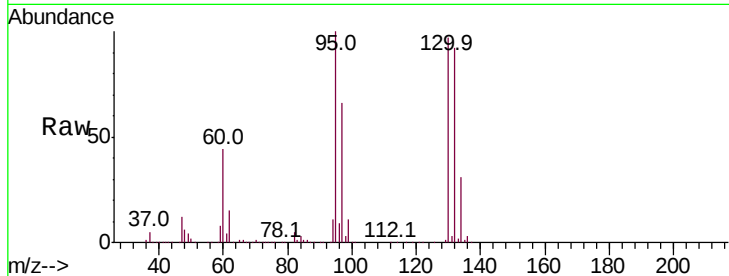
130 96.9 69.7 129.5

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#45

1,1,2-Trichloroethane

Concen: 2.044 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033428.D

Acq: 25 Jul 2019 22:37

Tgt Ion: 97 Resp: 4346

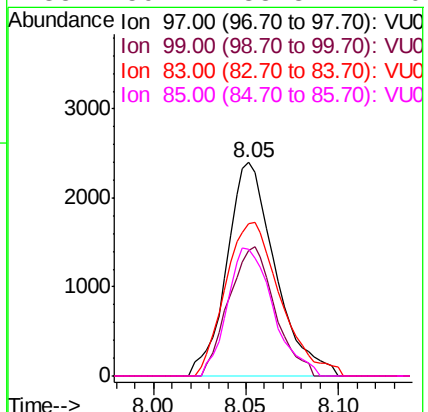
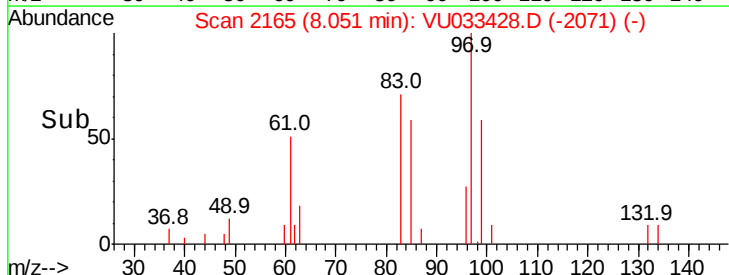
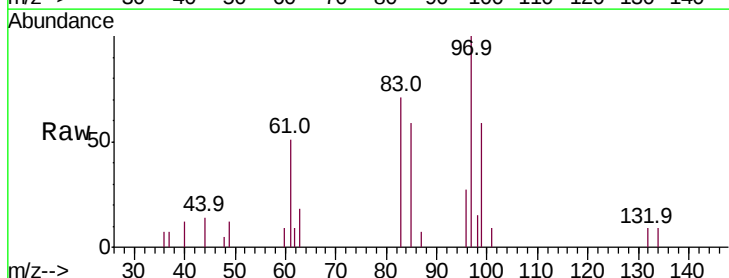
Ion Ratio Lower Upper

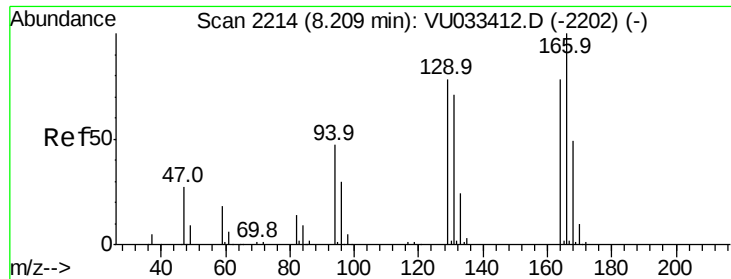
97 100

99 58.8 43.0 79.8

83 71.1 61.5 114.3

85 59.2 38.8 72.0





#46  
Tetrachloroethene  
Concen: 5.739 ug/L  
RT: 8.21 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VU033428.D  
Acq: 25 Jul 2019 22:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0CB3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 164   | Resp: | 9633  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 129       | 103.9 | 69.6  | 129.2 |
| 131       | 96.9  | 65.7  | 122.1 |
| 166       | 138.5 | 88.5  | 164.4 |

Manual Integrations  
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