

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
 Data File : VU031453.D  
 Acq On : 23 Apr 2019 21:49  
 Operator : JC/SP  
 Sample : K2536-04DL 5X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0X24DL

Manual Integrations  
 APPROVED

MMDadoda  
 4/24/2019 10:46:42 AM

Quant Time: Apr 24 09:00:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Apr 24 08:41:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 713418   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 630845   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 278715   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 221701   | 38.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 76.70%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 186402   | 42.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.70%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 329311   | 32.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.50%  |
| 21) 2-Butanone-d5              | 4.19    | 46    | 454369   | 105.13   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.13% |
| 24) Chloroform-d               | 4.64    | 84    | 423245   | 45.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.90%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 262180   | 47.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.02%  |
| 32) Benzene-d6                 | 5.34    | 84    | 849971   | 46.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.28%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 283524   | 48.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.70%  |
| 41) Toluene-d8                 | 7.56    | 98    | 686299   | 42.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.32%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 113112   | 42.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.66%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 311122   | 105.89   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 105.89% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 389013   | 48.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 266727   | 46.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.62%  |

## Target Compounds

| Target Compounds          | R.T. | QIon | Response | Conc   | Units | Ovalue |
|---------------------------|------|------|----------|--------|-------|--------|
| 9) Trichlorofluoromethane | 1.88 | 101  | 11288    | 1.482  | ug/L  | 99     |
| 13) Acetone               | 2.35 | 43   | 9420m    | 2.776  | ug/L  |        |
| 34) Trichloroethene       | 6.18 | 95   | 335702   | 69.432 | ug/L  | 97     |
| 46) Tetrachloroethene     | 8.22 | 164  | 9393     | 2.739  | ug/L  | 95     |

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

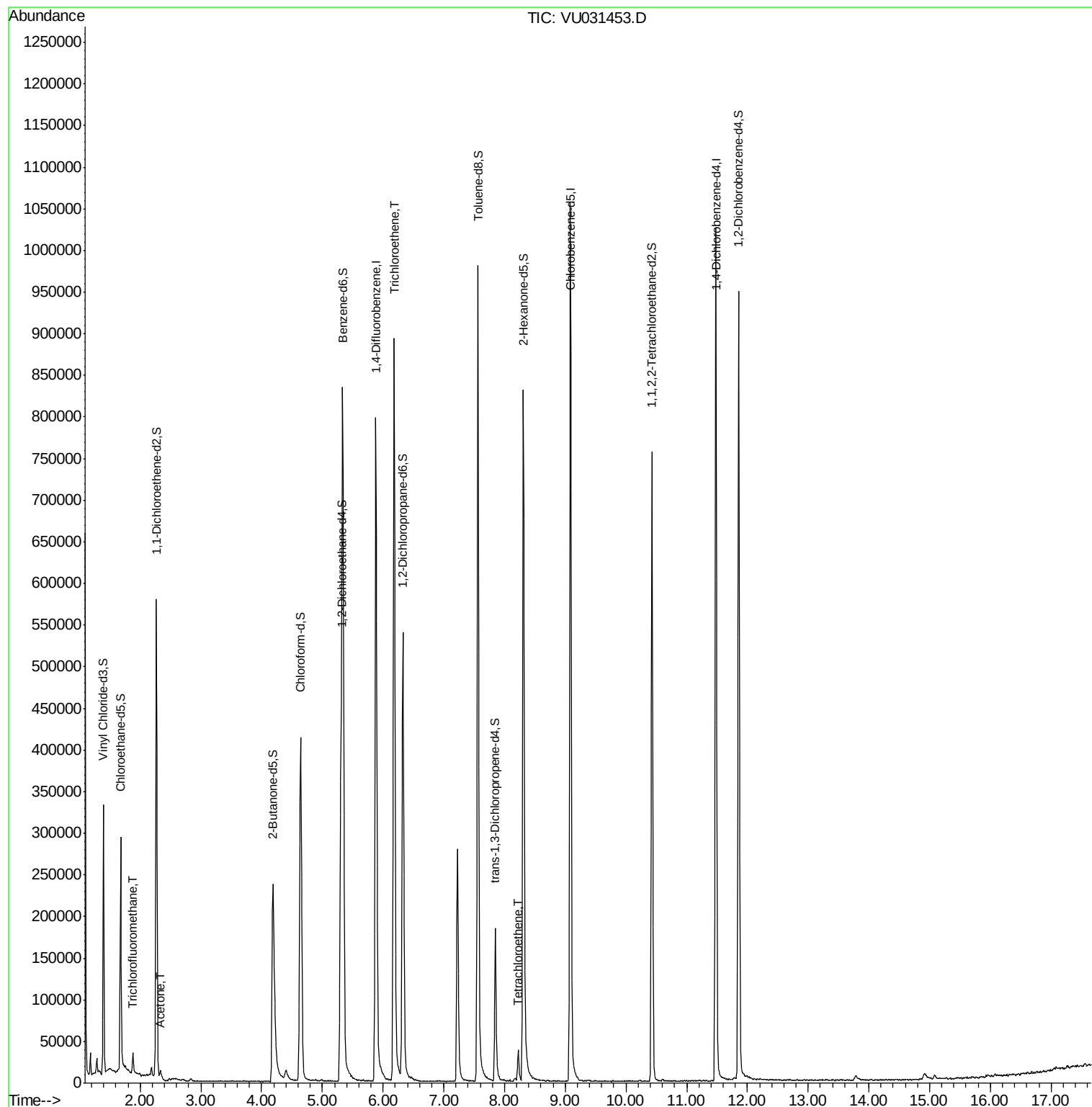
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU042319\  
Data File : VU031453.D  
Acq On : 23 Apr 2019 21:49  
Operator : JC/SP  
Sample : K2536-04DL 5X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 34 Sample Multiplier: 1

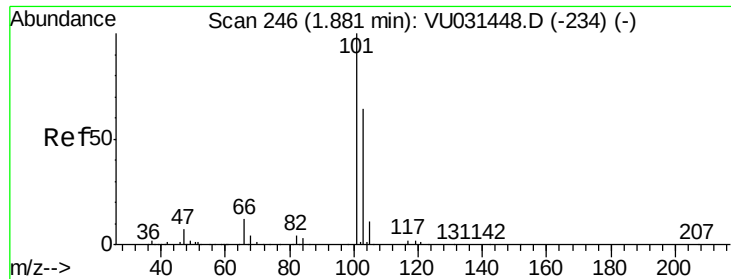
Instrument :  
MSVOA\_U  
ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 24 08:41:52 2019  
Response via : Initial Calibration





#9

Trichlorofluoromethane

Concen: 1.482 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031453.D

Acq: 23 Apr 2019 21:49

Instrument :

MSVOA\_U

ClientSampleId :

C0X24DL

Tot Ion:101 Resp: 11288

Ion Ratio Lower Upper

101 100

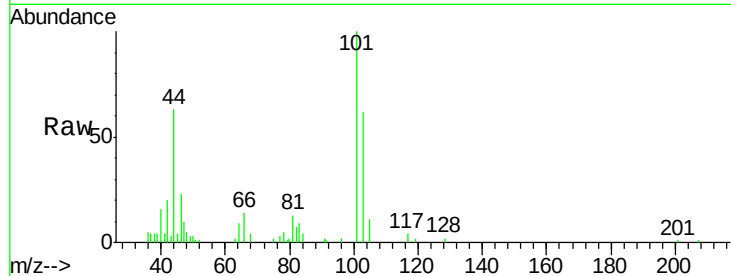
103 65.0 51.4 77.2

Manual Integrations

APPROVED

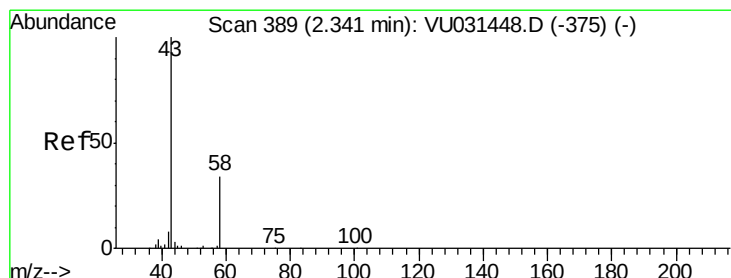
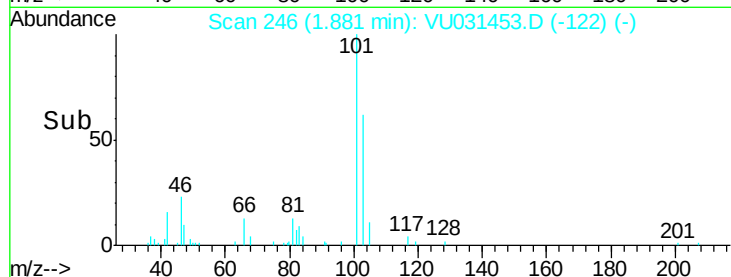
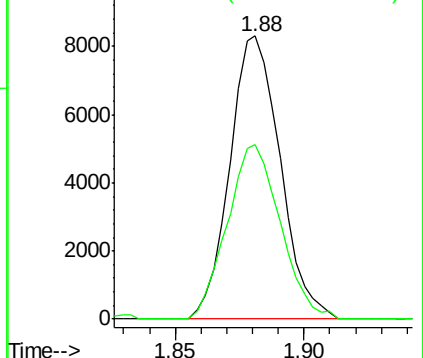
MMDadoda

4/24/2019 10:46:42 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Acetone

Concen: 2.776 ug/L m

RT: 2.35 min Scan# 391

Delta R.T. 0.01 min

Lab File: VU031453.D

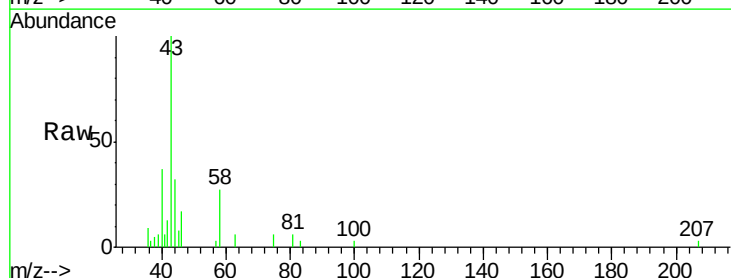
Acq: 23 Apr 2019 21:49

Tgt Ion: 43 Resp: 9420

Ion Ratio Lower Upper

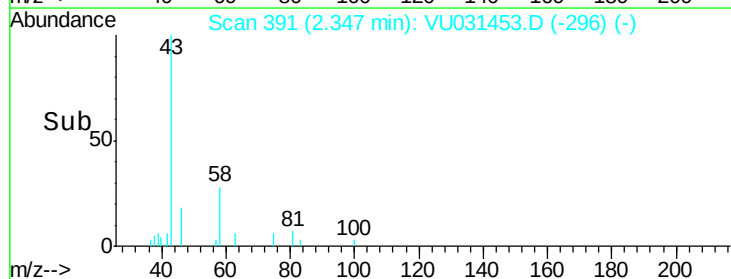
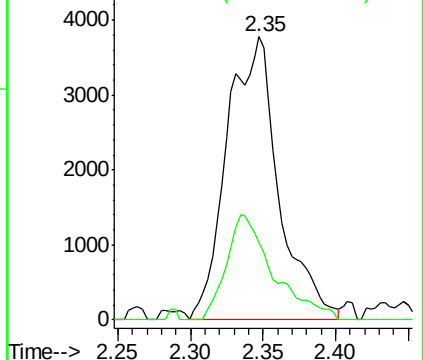
43 100

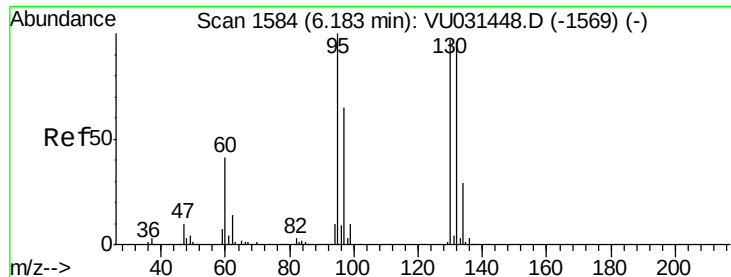
58 27.0 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#34

Trichloroethene

Concen: 69.432 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031453.D

Acq: 23 Apr 2019 21:49

Instrument :

MSVOA\_U

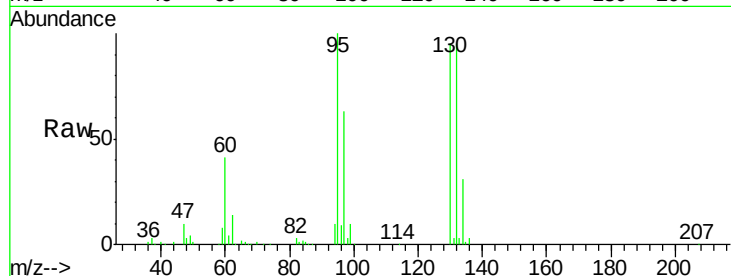
ClientSampled :

C0X24DL

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 95      | 100  |       | 335702 |       |       |
| 97      | 63.2 | 44.9  |        | 83.5  |       |
| 132     | 94.9 | 68.0  |        | 126.2 |       |
| 130     | 94.9 | 70.1  |        | 130.1 |       |

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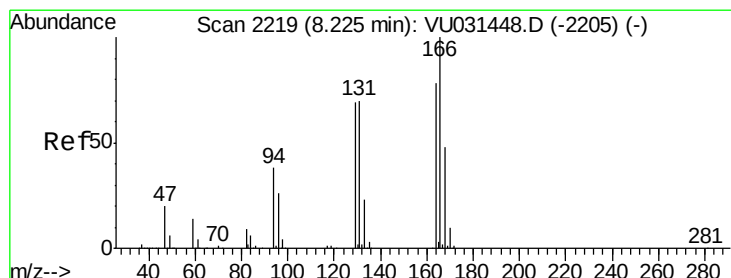
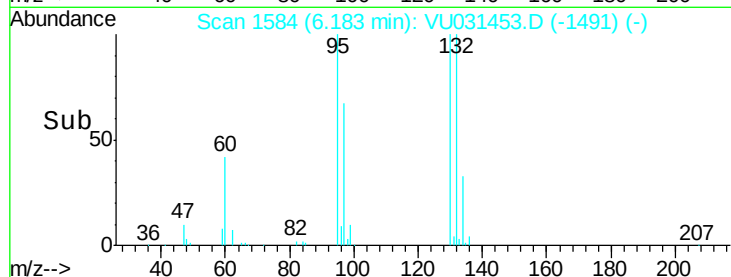
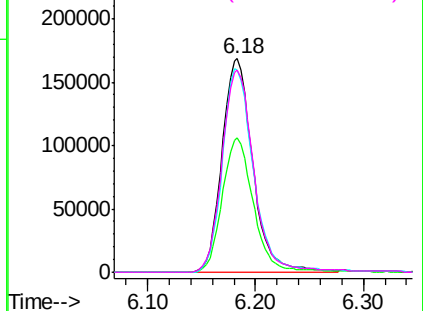
Abundance

Ion 95.00 (94.70 to 95.70): VU031453.D (-2126) (-)

Ion 97.00 (96.70 to 97.70): VU031453.D (-2126) (-)

Ion 132.00 (131.70 to 132.70): VU031453.D (-2126) (-)

Ion 130.00 (129.70 to 130.70): VU031453.D (-2126) (-)



#46

Tetrachloroethene

Concen: 2.739 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU031453.D

Acq: 23 Apr 2019 21:49

| Tgt Ion | Ion   | Ratio | Resp | Lower | Upper |
|---------|-------|-------|------|-------|-------|
| 164     | 100   |       | 9393 |       |       |
| 129     | 96.1  | 65.2  |      | 121.0 |       |
| 131     | 80.8  | 61.4  |      | 114.0 |       |
| 166     | 122.9 | 89.2  |      | 165.6 |       |

Abundance

Ion 164.00 (163.70 to 164.70): VU031453.D (-2126) (-)

Ion 129.00 (128.70 to 129.70): VU031453.D (-2126) (-)

Ion 131.00 (130.70 to 131.70): VU031453.D (-2126) (-)

Ion 166.00 (165.70 to 166.70): VU031453.D (-2126) (-)

