

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041819\  
 Data File : VV010397.D  
 Acq On : 19 Apr 2019 21:48  
 Operator : SY/MD  
 Sample : K2456-13  
 Misc : 5.01G/10mL/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GAHN3

Quant Time: Apr 20 05:15:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041819S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 20 04:30:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 212084   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 207906   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 109109   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 47591    | 17.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 70.68%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 43267    | 19.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 76.52%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 80408    | 12.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 49.52%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 45379    | 54.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 108.22% |
| 24) Chloroform-d               | 4.40   | 84    | 121694   | 21.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 87.32%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 84061    | 25.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 102.16% |
| 29) Benzene-d6                 | 5.10   | 84    | 223641   | 21.01    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 84.04%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 72718    | 23.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.40%  |
| 37) Toluene-d8                 | 7.36   | 98    | 213595   | 20.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 83.52%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 31058    | 20.27    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 81.08%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 33296    | 48.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 96.02%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 75838    | 24.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.40%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 97463    | 22.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 90.88%  |

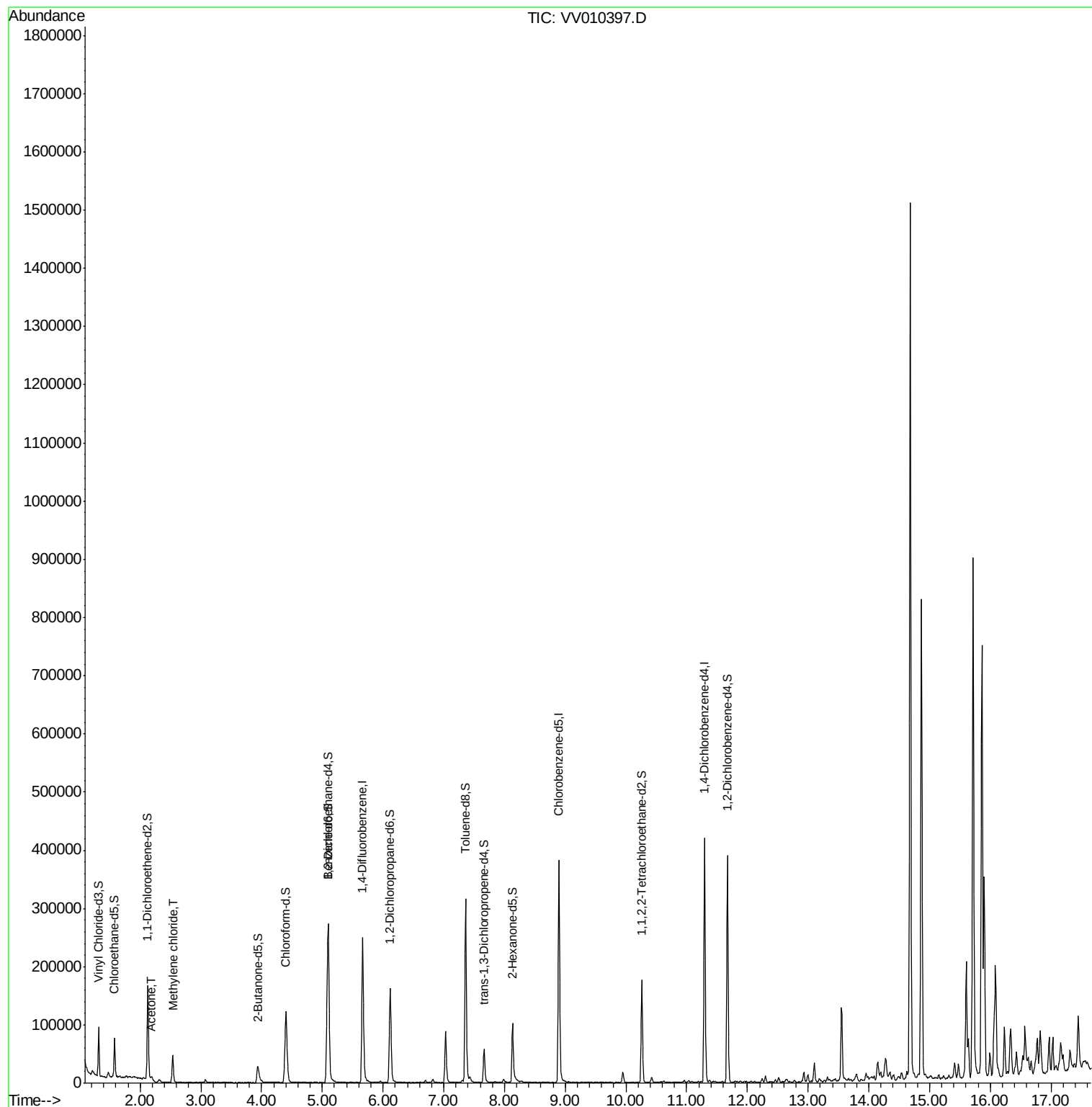
| Target Compounds       |      |    |       |            | Ovalue |
|------------------------|------|----|-------|------------|--------|
| 13) Acetone            | 2.19 | 43 | 3794  | 4.287 ug/L | 86     |
| 16) Methylene chloride | 2.54 | 84 | 19493 | 5.754 ug/L | 95     |

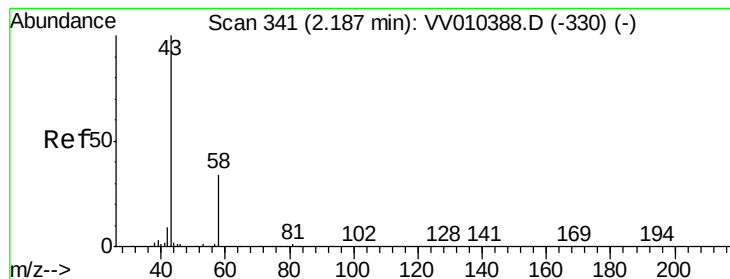
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Apr 20 04:30:57 2019  
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#13

Acetone

Concen: 4.287 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV010397.D

Acq: 19 Apr 2019 21:48

Instrument :

MSVOA\_V

ClientSampleId :

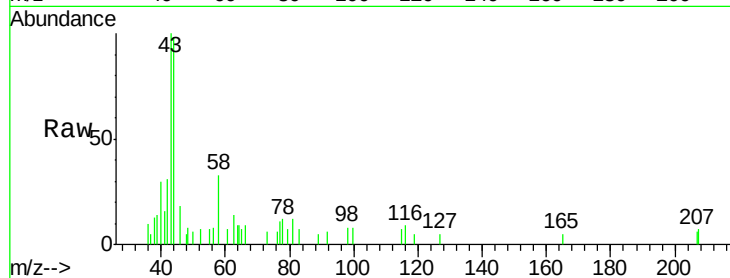
GAHN3

Tot Ion: 43 Resp: 3794

Ion Ratio Lower Upper

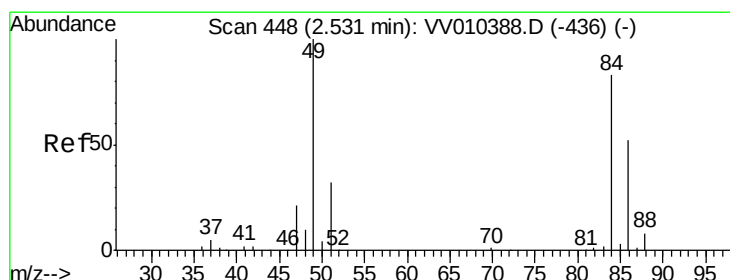
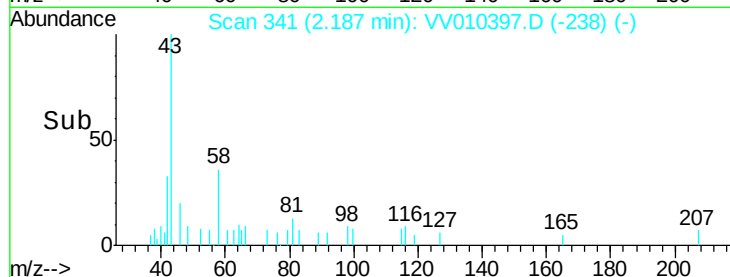
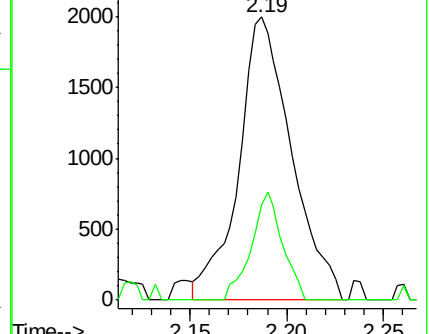
43 100

58 22.6 0.0 60.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#16

Methylene chloride

Concen: 5.754 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.01 min

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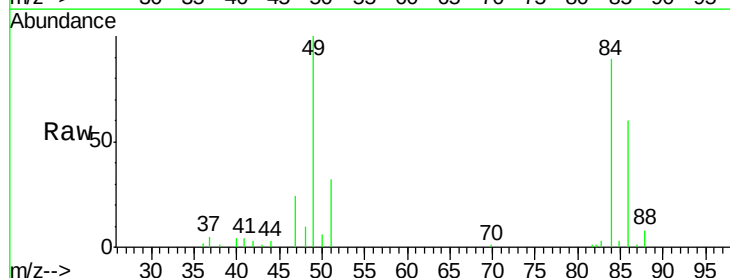
Tgt Ion: 84 Resp: 19493

Ion Ratio Lower Upper

84 100

49 112.3 83.8 155.6

86 67.3 46.1 85.5



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

