

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV040319\  
 Data File : VV010101.D  
 Acq On : 03 Apr 2019 19:48  
 Operator : SY/MD  
 Sample : K2148-10RE  
 Misc : 3.92G/10mL/MSVOA V/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF5F7RE

Manual Integrations  
 APPROVED

MMDADODA  
 4/13/2019 6:46:58 AM

Quant Time: Apr 08 12:20:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 04 06:01:11 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 7548     | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.91  | 117  | 3917     | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 279      | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 2629     | 26.02    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 104.08%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 2275     | 18.13    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 72.52%   |
| 10) 1,1-Dichloroethene-d2      | 2.14   | 63    | 4151     | 16.28    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 65.12%   |
| 20) 2-Butanone-d5              | 3.97   | 46    | 417      | 14.50    | ug/L | 0.04     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 29.00%   |
| 24) Chloroform-d               | 4.41   | 84    | 6206m    | 32.64    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 130.56%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 3431     | 32.25    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 129.00%  |
| 29) Benzene-d6                 | 5.11   | 84    | 9998     | 49.22    | ug/L | 0.01     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 196.88%# |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 3237     | 54.00    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 216.00%# |
| 37) Toluene-d8                 | 7.37   | 98    | 6384     | 32.62    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 130.48%# |
| 38) trans-1,3-Dichloropropene- | 0.00   | 79    | 0d       | 0.00     | ug/L |          |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 0.00%#   |
| 39) 2-Hexanone-d5              | 8.19   | 63    | 121      | 10.06    | ug/L | 0.05     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 20.12%   |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 1635     | 27.65    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 110.60%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 566      | 52.08    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 208.32%# |

| Target Compounds       |      |     |       |        | Ovalue |
|------------------------|------|-----|-------|--------|--------|
| 16) Methylene chloride | 2.54 | 84  | 1032m | 7.782  | ug/L   |
| 47) Tetrachloroethene  | 8.03 | 164 | 616   | 13.348 | ug/L   |

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

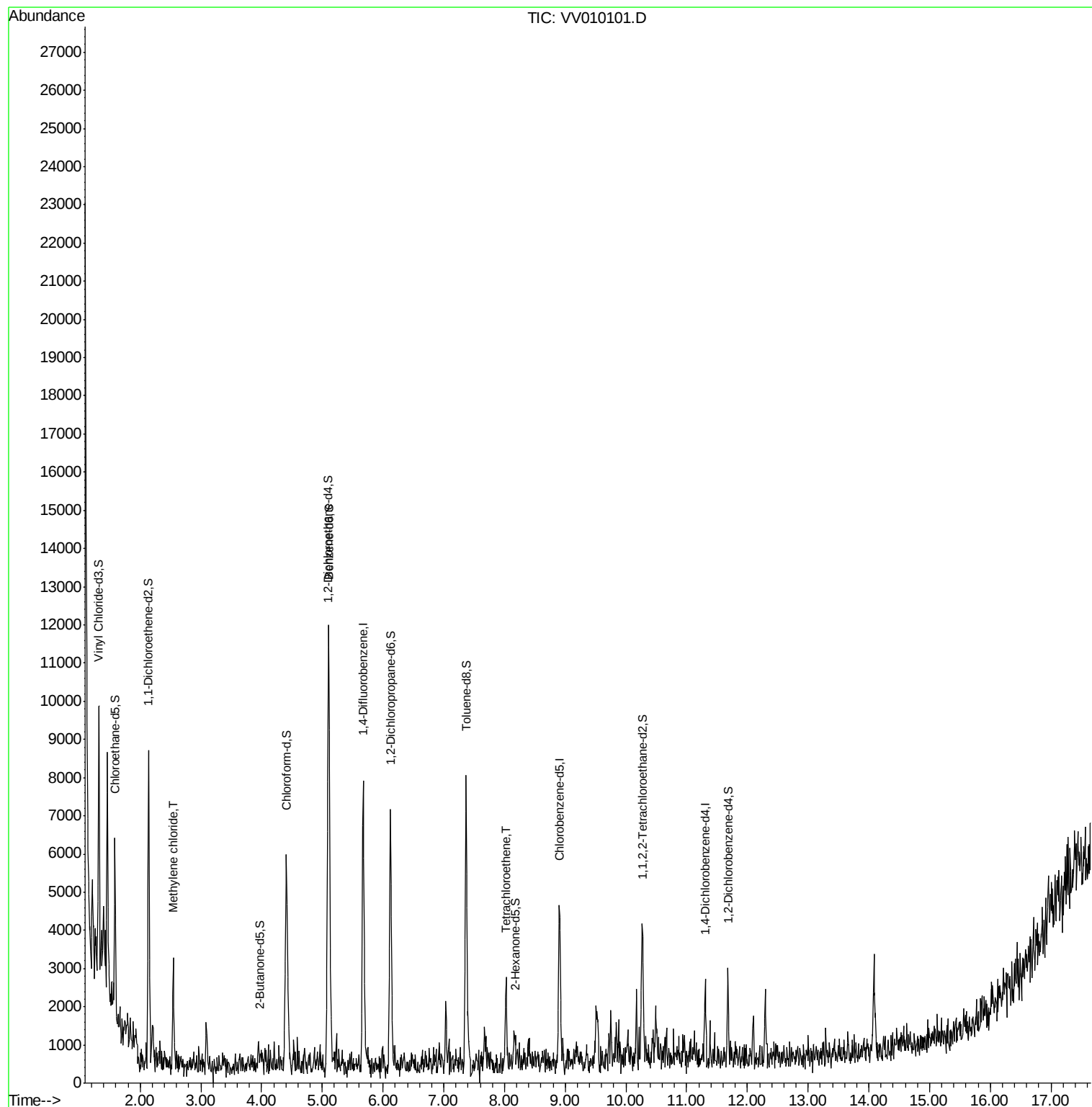
Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV040319\  
Data File : VV010101.D  
Acq On : 03 Apr 2019 19:48  
Operator : SY/MD  
Sample : K2148-10RE  
Misc : 3.92G/10mL/MSVOA V/SOIL  
ALS Vial : 11 Sample Multiplier: 1

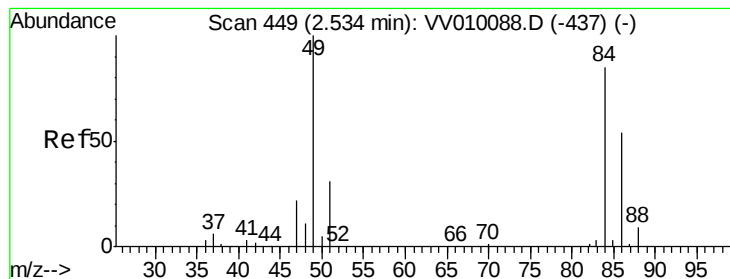
Instrument :  
MSVOA\_V  
ClientSampleId :  
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Quant Time: Apr 08 12:20:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 04 06:01:11 2019  
Response via : Initial Calibration





#16

Methvlene chloride

Concen: 7.782 ug/L m

RT: 2.54 min Scan# 451

Delta R.T. 0.00 min

Lab File: VV010101.D

Acq: 03 Apr 2019 19:48

Instrument :

MSVOA\_V

ClientSampled :

BF5F7RE

Tot Ion: 84 Resp: 1032

Ion Ratio Lower Upper

84 100

49 113.7 84.3 156.5

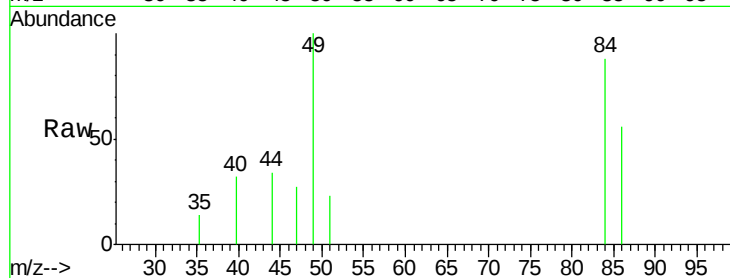
86 63.4 45.4 84.2

Manual Integrations

APPROVED

MMDADODA

4/13/2019 6:46:58 AM

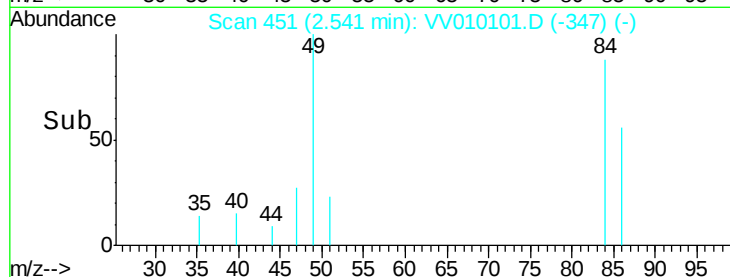


Abundance Ion 84.00 (83.70 to 84.70): VV010088.D (-437) (-)

Ion 49.00 (48.70 to 49.70): VV010088.D (-437) (-)

Ion 86.00 (85.70 to 86.70): VV010088.D (-437) (-)

Time-->

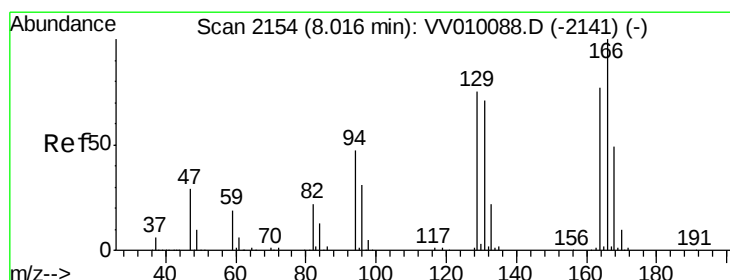


Abundance Ion 84.00 (83.70 to 84.70): VV010101.D (-347) (-)

Ion 49.00 (48.70 to 49.70): VV010101.D (-347) (-)

Ion 86.00 (85.70 to 86.70): VV010101.D (-347) (-)

Time-->



#47

Tetrachloroethene

Concen: 13.348 ug/L

RT: 8.03 min Scan# 2157

Delta R.T. 0.01 min

Lab File: VV010101.D

Acq: 03 Apr 2019 19:48

Tgt Ion: 164 Resp: 616

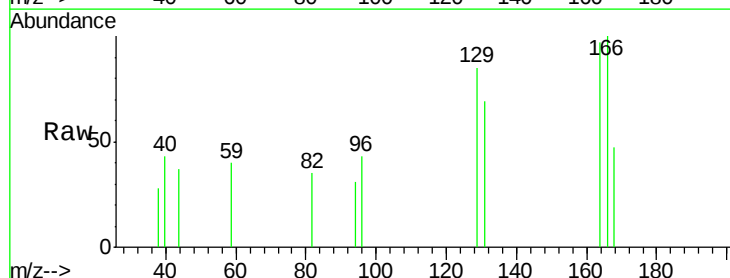
Ion Ratio Lower Upper

164 100

129 87.2 67.8 125.8

131 70.7 65.2 121.0

166 102.9 93.8 174.2



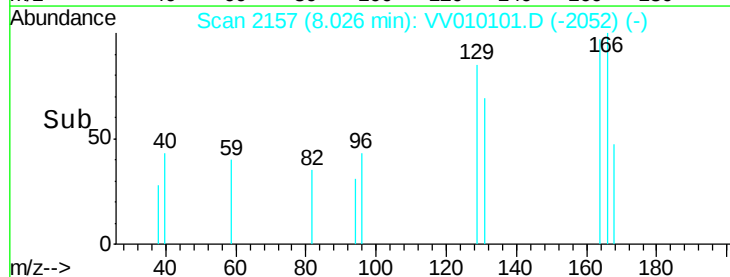
Abundance Ion 164.00 (163.70 to 164.70): VV010088.D (-2141) (-)

Ion 129.00 (128.70 to 129.70): VV010088.D (-2141) (-)

Ion 131.00 (130.70 to 131.70): VV010088.D (-2141) (-)

Ion 166.00 (165.70 to 166.70): VV010088.D (-2141) (-)

Time-->



Abundance Ion 164.00 (163.70 to 164.70): VV010101.D (-2052) (-)

Ion 129.00 (128.70 to 129.70): VV010101.D (-2052) (-)

Ion 131.00 (130.70 to 131.70): VV010101.D (-2052) (-)

Ion 166.00 (165.70 to 166.70): VV010101.D (-2052) (-)

Time-->