

Data File : VV009950.D  
Acq On : 28 Mar 2019 02:06  
Operator : SY/MD  
Sample : K2101-13  
Misc : 4.78G/10mL/MSVOA\_V/SOIL  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0C7

Manual Integrations  
APPROVED

MMDadoda  
3/29/2019 1:13:23 PM

Quant Time: Mar 29 13:36:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 28 07:17:22 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 114036   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 110973   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 43603    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 49276    | 21.29    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.16%   |
| 7) Chloroethane-d5             | 1.55   | 69    | 59643    | 23.86    | ug/L | -0.02    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.44%   |
| 10) 1,1-Dichloroethene-d2      | 2.11   | 63    | 51007    | 8.06     | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 32.24%#  |
| 20) 2-Butanone-d5              | 3.92   | 46    | 35499    | 82.32    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 164.64%# |
| 24) Chloroform-d               | 4.39   | 84    | 62205    | 21.41    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 85.64%   |
| 26) 1,2-Dichloroethane-d4      | 5.07   | 65    | 48754    | 27.88    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 111.52%  |
| 29) Benzene-d6                 | 5.09   | 84    | 145622   | 24.99    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.96%   |
| 33) 1,2-Dichloropropane-d6     | 6.11   | 67    | 46147    | 27.07    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 108.28%  |
| 37) Toluene-d8                 | 7.36   | 98    | 118946   | 21.56    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 86.24%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 13643    | 19.56    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 78.24%   |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 24572    | 77.21    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 154.42%# |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 47531    | 28.16    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 112.64%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 39307    | 23.68    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.72%   |

#### Target Compounds

|                            |      |     |       |             | Qvalue |
|----------------------------|------|-----|-------|-------------|--------|
| 13) Acetone                | 2.19 | 43  | 2842  | 4.353 ug/L  | 67     |
| 16) Methylene chloride     | 2.53 | 84  | 3615  | 1.925 ug/L  | 91     |
| 22) cis-1,2-Dichloroethene | 3.95 | 96  | 3494  | 2.118 ug/L  | 97     |
| 35) Trichloroethene        | 5.96 | 95  | 2571m | 1.599 ug/L  |        |
| 47) Tetrachloroethene      | 8.02 | 164 | 48562 | 38.285 ug/L | 96     |

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

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