

Data File : VV011153.D  
Acq On : 30 May 2019 23:21  
Operator : SY/MD  
Sample : K3083-05  
Misc : 4.15G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51F8

Manual Integrations  
APPROVED

MMDadoda  
6/1/2019 4:45:15 AM

Quant Time: May 31 15:05:40 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM053019S.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 31 01:43:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 120917   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 101204   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 31671    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 35310    | 21.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 86.32%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 28937    | 23.01    | ug/L | 0.01    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.04%  |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 57676m   | 17.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 68.68%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 31294    | 52.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 104.66% |
| 24) Chloroform-d               | 4.40   | 84    | 71442    | 24.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 96.68%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 46462    | 24.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 96.48%  |
| 29) Benzene-d6                 | 5.10   | 84    | 141128   | 25.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.72% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 47206    | 26.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 107.24% |
| 37) Toluene-d8                 | 7.36   | 98    | 125425   | 24.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 96.76%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 17823    | 22.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 89.44%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 21389    | 53.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 106.88% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 40444    | 25.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 101.92% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 28073    | 23.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.76%  |

| Target Compounds      |      |     |       |        |      | Qvalue |
|-----------------------|------|-----|-------|--------|------|--------|
| 13) Acetone           | 2.19 | 43  | 47917 | 68.883 | ug/L | 99     |
| 15) Methyl Acetate    | 2.46 | 43  | 22685 | 21.672 | ug/L | 97     |
| 21) 2-Butanone        | 4.05 | 43  | 4694m | 5.752  | ug/L |        |
| 35) Trichloroethene   | 5.96 | 95  | 29742 | 18.906 | ug/L | 96     |
| 47) Tetrachloroethene | 8.02 | 164 | 1483  | 1.272  | ug/L | 85     |

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

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