

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV040619\  
 Data File : VV010159.D  
 Acq On : 06 Apr 2019 17:46  
 Operator : SY/MD  
 Sample : K2188-06RE  
 Misc : 3.13G/10mL/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF662RE

Manual Integrations  
 APPROVED

MMDadoda  
 4/8/2019 3:28:39 AM

Quant Time: Apr 07 02:28:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sun Apr 07 00:49:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 263549   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 185758   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 51581    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 58286    | 16.52    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 66.08%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 61687    | 14.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 56.32%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 127529   | 14.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 57.32%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 32607    | 32.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 64.96%  |
| 24) Chloroform-d               | 4.40   | 84    | 144935   | 21.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 87.32%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 76253    | 20.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 82.12%  |
| 29) Benzene-d6                 | 5.10   | 84    | 284780   | 29.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 118.24% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 84933    | 29.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 119.48% |
| 37) Toluene-d8                 | 7.36   | 98    | 236813   | 25.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 102.04% |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 13976    | 11.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 46.00%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 22561    | 39.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 79.14%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 41145    | 14.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 58.68%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 37534    | 18.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 74.72%# |

## Target Compounds

| Target Compounds       | R.T. | QIon | Response | Conc  | Units | Ovalue |
|------------------------|------|------|----------|-------|-------|--------|
| 13) Acetone            | 2.20 | 43   | 4269     | 4.301 | ug/L  | 92     |
| 14) Carbon disulfide   | 2.32 | 76   | 22568    | 3.018 | ug/L  | 99     |
| 16) Methylene chloride | 2.53 | 84   | 23107    | 4.990 | ug/L  | 91     |
| 34) Benzene            | 5.15 | 78   | 10739m   | 1.182 | ug/L  |        |
| 44) Toluene            | 7.43 | 91   | 12878    | 1.263 | ug/L  | 91     |
| 53) Ethylbenzene       | 9.05 | 91   | 23971    | 2.144 | ug/L  | 100    |
| 54) m,p-Xylene         | 9.18 | 106  | 10045    | 2.309 | ug/L  | 96     |
| 55) o-xylene           | 9.59 | 106  | 5873     | 1.393 | ug/L  | 83     |

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

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