

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081318\  
 Data File : VU026076.D  
 Acq On : 13 Aug 2018 18:40  
 Operator : MD/SY  
 Sample : J4402-08 10X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZH7

Manual Integrations  
 APPROVED

sam  
 8/14/2018 6:27:24 PM

Quant Time: Aug 14 02:38:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 14 02:18:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 283373   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 263284   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 117457   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 83030    | 40.08    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 80.16% |
| 7) Chloroethane-d5             | 1.68    | 69    | 70240    | 42.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.54% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 128535   | 32.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.32% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 143756   | 83.27    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 83.27% |
| 24) Chloroform-d               | 4.65    | 84    | 188395   | 42.89    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.78% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 128607   | 43.34    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.68% |
| 32) Benzene-d6                 | 5.35    | 84    | 365026   | 44.65    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.30% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 118876   | 44.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.88% |
| 41) Toluene-d8                 | 7.57    | 98    | 329699   | 42.15    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.30% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 57624    | 43.23    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.46% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 100420   | 83.58    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 83.58% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 165566   | 42.80    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 85.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 133989   | 46.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.56% |

| Target Compounds           |       |     |       |      |      | Ovalue |
|----------------------------|-------|-----|-------|------|------|--------|
| 51) Chlorobenzene          | 9.12  | 112 | 9386  | 1.75 | ug/L | 97     |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146 | 6437  | 1.68 | ug/L | 96     |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 4698  | 1.21 | ug/L | 88     |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180 | 3624m | 1.57 | ug/L |        |

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

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