

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101419\  
 Data File : VU035177.D  
 Acq On : 15 Oct 2019 02:18  
 Operator : JC/SP  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00520

Quant Time: Oct 15 08:06:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 15 07:54:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 137662   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 147479   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 73343    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 40026    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 98.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 39086    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.00% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 87076    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 101.40% |
| 20) 2-Butanone-d5              | 4.18   | 46    | 154919   | 64.65    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 129.30% |
| 24) Chloroform-d               | 4.62   | 84    | 80588    | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.00% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 48101    | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.60% |
| 32) Benzene-d6                 | 5.32   | 84    | 156078   | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 57406    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.40%  |
| 41) Toluene-d8                 | 7.55   | 98    | 149733   | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.60%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 19193    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.40%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 108071   | 54.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 109.22% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 53927    | 5.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 110.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 57611    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.20%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85   | 67554    | 5.370  | ug/L  | 98     |
| 3) Chloromethane               | 1.32 | 50   | 73456    | 5.323  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.40 | 62   | 76275    | 5.627  | ug/L  | 99     |
| 6) Bromomethane                | 1.62 | 94   | 44688    | 5.930  | ug/L  | 95     |
| 8) Chloroethane                | 1.69 | 64   | 47434    | 5.834  | ug/L  | 95     |
| 9) Trichlorofluoromethane      | 1.88 | 101  | 94850    | 5.785  | ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101  | 52652    | 5.593  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.27 | 96   | 48153    | 5.446  | ug/L  | 82     |
| 13) Acetone                    | 2.32 | 43   | 117751   | 59.995 | ug/L  | 95     |
| 14) Carbon disulfide           | 2.46 | 76   | 149728   | 5.088  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.61 | 43   | 30548    | 5.847  | ug/L  | 92     |
| 16) Methylene chloride         | 2.68 | 84   | 59349    | 5.422  | ug/L  | 82     |
| 17) Methyl tert-butyl Ether    | 2.99 | 73   | 140871   | 5.839  | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96   | 51828    | 5.474  | ug/L  | 93     |
| 19) 1,1-Dichloroethane         | 3.42 | 63   | 110141   | 5.853  | ug/L  | 100    |
| 21) 2-Butanone                 | 4.27 | 43   | 168309   | 60.218 | ug/L  | 95     |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96   | 57048    | 5.402  | ug/L  | 86     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.53  | 128  | 26044    | 5.884  | ug/L   | 89       |
| 25) Chloroform                 | 4.65  | 83   | 117488   | 5.557  | ug/L   | 98       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 71271    | 5.772  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane      | 4.89  | 97   | 87542    | 5.285  | ug/L   | 96       |
| 30) Cyclohexane                | 4.97  | 56   | 82763    | 4.544  | ug/L   | 96       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 78873    | 5.492  | ug/L   | 97       |
| 33) Benzene                    | 5.37  | 78   | 229931   | 5.176  | ug/L   | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 57525    | 5.021  | ug/L   | 96       |
| 35) Methylcyclohexane          | 6.39  | 83   | 82292    | 4.435  | ug/L   | 96       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 64877    | 5.414  | ug/L   | 100      |
| 38) Bromodichloromethane       | 6.74  | 83   | 78800    | 5.609  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 78994    | 4.866  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone       | 7.45  | 43   | 425061   | 56.359 | ug/L   | 93       |
| 42) Toluene                    | 7.62  | 91   | 246587   | 5.318  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 65441    | 5.205  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 44825    | 5.634  | ug/L   | 94       |
| 47) Tetrachloroethene          | 8.21  | 164  | 45494    | 4.906  | ug/L   | 95       |
| 48) 2-Hexanone                 | 8.35  | 43   | 291530   | 56.377 | ug/L   | 97       |
| 49) Dibromochloromethane       | 8.46  | 129  | 52799    | 5.741  | ug/L   | 100      |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 40701    | 5.352  | ug/L # | 97       |
| 51) Chlorobenzene              | 9.10  | 112  | 157216   | 5.232  | ug/L   | 99       |
| 52) Ethylbenzene               | 9.23  | 91   | 257367   | 5.025  | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.36  | 106  | 94170    | 4.978  | ug/L   | 97       |
| 54) o-Xylene                   | 9.76  | 106  | 93777    | 5.068  | ug/L   | 97       |
| 55) Styrene                    | 9.77  | 104  | 164844   | 5.502  | ug/L   | 98       |
| 56) Isopropylbenzene           | 10.15 | 105  | 249179   | 5.055  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 60423    | 5.584  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 42340    | 5.459  | ug/L   | 100      |
| 61) Bromoform                  | 9.94  | 173  | 28587    | 5.683  | ug/L   | 96       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 119117   | 5.272  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 120315   | 5.276  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 114965   | 5.273  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 7893     | 5.697  | ug/L   | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.86 | 180  | 72747    | 4.755  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.48 | 180  | 48303    | 4.228  | ug/L   | 98       |
| 69) Naphthalene                | 13.72 | 128  | 62470    | 3.516  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.96 | 180  | 52500    | 4.725  | ug/L   | 95       |

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

