

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU051219\  
 Data File : VU031956.D  
 Acq On : 12 May 2019 20:33  
 Operator : JC/SP  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00528

Quant Time: May 13 07:06:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050819WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon May 13 07:00:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 451658   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 472364   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 208894   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 170071   | 5.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 110.60% |
| 7) Chloroethane-d5             | 1.68   | 69    | 154641   | 6.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 121.80% |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 328187   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 99.00%  |
| 20) 2-Butanone-d5              | 4.20   | 46    | 538286   | 44.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 89.58%  |
| 24) Chloroform-d               | 4.64   | 84    | 324879   | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.00% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 170190   | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.80%  |
| 32) Benzene-d6                 | 5.33   | 84    | 609967   | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.00% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 210967   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.00%  |
| 41) Toluene-d8                 | 7.56   | 98    | 523011   | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.20% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 74204    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 407498   | 51.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 103.42% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 178347   | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 103.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 193445   | 5.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 112.00% |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 215292 | 4.141 ug/L   | 99     |
| 3) Chloromethane               | 1.32 | 50  | 250135 | 4.036 ug/L   | 98     |
| 5) Vinyl chloride              | 1.40 | 62  | 261404 | 4.826 ug/L   | 98     |
| 6) Bromomethane                | 1.63 | 94  | 145500 | 5.852 ug/L   | 98     |
| 8) Chloroethane                | 1.70 | 64  | 161837 | 5.425 ug/L   | 100    |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 309937 | 4.947 ug/L   | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 186095 | 5.708 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 183443 | 5.975 ug/L   | 77     |
| 13) Acetone                    | 2.34 | 43  | 359590 | 43.808 ug/L  | 82     |
| 14) Carbon disulfide           | 2.48 | 76  | 578433 | 5.352 ug/L   | 98     |
| 15) Methyl Acetate             | 2.62 | 43  | 99000  | 4.675 ug/L # | 86     |
| 16) Methylene chloride         | 2.70 | 84  | 216395 | 5.080 ug/L   | 85     |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 501545 | 5.484 ug/L # | 91     |
| 18) trans-1,2-Dichloroethene   | 2.98 | 96  | 198125 | 5.987 ug/L   | 80     |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 369734 | 4.543 ug/L   | 94     |
| 21) 2-Butanone                 | 4.28 | 43  | 578487 | 42.174 ug/L  | 87     |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 204346 | 5.142 ug/L   | 80     |

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 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00528

Quant Time: May 13 07:06:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050819WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon May 13 07:00:03 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 23) Bromochloromethane         | 4.54  | 128  | 86416    | 5.418  | ug/L # | 75       |
| 25) Chloroform                 | 4.67  | 83   | 358395   | 4.475  | ug/L   | 97       |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 233276   | 4.413  | ug/L # | 94       |
| 29) 1,1,1-Trichloroethane      | 4.91  | 97   | 286265   | 4.422  | ug/L   | 96       |
| 30) Cyclohexane                | 4.99  | 56   | 297838   | 4.201  | ug/L   | 90       |
| 31) Carbon tetrachloride       | 5.13  | 117  | 236284   | 4.286  | ug/L   | 99       |
| 33) Benzene                    | 5.38  | 78   | 800742   | 4.862  | ug/L   | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 198694   | 4.785  | ug/L   | 93       |
| 35) Methylcyclohexane          | 6.41  | 83   | 283419   | 4.752  | ug/L   | 89       |
| 37) 1,2-Dichloropropane        | 6.43  | 63   | 214798   | 4.557  | ug/L # | 97       |
| 38) Bromodichloromethane       | 6.75  | 83   | 253391   | 4.513  | ug/L   | 93       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 261172   | 4.422  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 1319683  | 41.601 | ug/L # | 89       |
| 42) Toluene                    | 7.63  | 91   | 844706   | 5.194  | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 215338   | 4.603  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 149433   | 5.351  | ug/L   | 98       |
| 47) Tetrachloroethene          | 8.22  | 164  | 134855   | 4.994  | ug/L   | 97       |
| 48) 2-Hexanone                 | 8.36  | 43   | 992781   | 44.034 | ug/L # | 91       |
| 49) Dibromochloromethane       | 8.47  | 129  | 154799   | 4.766  | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 137950   | 5.428  | ug/L   | 93       |
| 51) Chlorobenzene              | 9.12  | 112  | 497322   | 5.145  | ug/L   | 93       |
| 52) Ethylbenzene               | 9.25  | 91   | 837653   | 4.938  | ug/L   | 97       |
| 53) m,p-Xylene                 | 9.37  | 106  | 308431   | 5.108  | ug/L   | 98       |
| 54) o-Xylene                   | 9.77  | 106  | 308838   | 5.348  | ug/L   | 95       |
| 55) Styrene                    | 9.79  | 104  | 543707   | 5.486  | ug/L   | 93       |
| 56) Isopropylbenzene           | 10.16 | 105  | 789376   | 5.105  | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 187482   | 5.026  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 135472   | 4.856  | ug/L   | 97       |
| 61) Bromoform                  | 9.95  | 173  | 87362    | 5.227  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 339051   | 5.111  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 342989   | 5.098  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 348751   | 5.389  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 28149    | 4.627  | ug/L # | 83       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 251282   | 4.985  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 187985   | 5.050  | ug/L   | 97       |
| 69) Naphthalene                | 13.74 | 128  | 332516   | 5.207  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 195654   | 5.646  | ug/L   | 97       |
| -----                          |       |      |          |        |        |          |

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

