

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061419\  
 Data File : VU032745.D  
 Acq On : 15 Jun 2019 01:03  
 Operator : JC/SP  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00526

Quant Time: Jun 15 03:30:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 14 23:49:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 109461   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 102998   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 55045    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 28335    | 3.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 79.60%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 24570    | 4.04     | ug/L | 0.01    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 80.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 63441    | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 87.80%  |
| 20) 2-Butanone-d5              | 4.18   | 46    | 97106    | 48.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.78%  |
| 24) Chloroform-d               | 4.64   | 84    | 63750    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.30   | 65    | 34481    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.60% |
| 32) Benzene-d6                 | 5.33   | 84    | 116542   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 38939    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.80%  |
| 41) Toluene-d8                 | 7.56   | 98    | 109778   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 15712    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 79088    | 46.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.60%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 34588    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 45354    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.60%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 48158  | 5.128  | ug/L 98  |
| 3) Chloromethane               | 1.33 | 50  | 45768  | 4.699  | ug/L 98  |
| 5) Vinyl chloride              | 1.40 | 62  | 45641  | 4.767  | ug/L 97  |
| 6) Bromomethane                | 1.61 | 94  | 26127  | 4.474  | ug/L 100 |
| 8) Chloroethane                | 1.69 | 64  | 26341  | 4.306  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 65500  | 4.780  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 34211  | 4.696  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 30956  | 4.451  | ug/L 93  |
| 13) Acetone                    | 2.32 | 43  | 73637  | 47.768 | ug/L 95  |
| 14) Carbon disulfide           | 2.47 | 76  | 97615  | 4.383  | ug/L 100 |
| 15) Methyl Acetate             | 2.61 | 43  | 18772  | 4.438  | ug/L 97  |
| 16) Methylene chloride         | 2.69 | 84  | 36143  | 4.686  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 91937  | 4.520  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 34152  | 4.551  | ug/L 93  |
| 19) 1,1-Dichloroethane         | 3.43 | 63  | 68499  | 5.100  | ug/L 98  |
| 21) 2-Butanone                 | 4.27 | 43  | 113827 | 50.769 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 39230  | 4.620  | ug/L 90  |

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 Sample : VSTDCCC005  
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 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00526

Quant Time: Jun 15 03:30:39 2019  
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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 14 23:49:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.54  | 128  | 18043    | 4.936  | ug/L  | 96       |
| 25) Chloroform                 | 4.66  | 83   | 70086    | 5.108  | ug/L  | 97       |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 47434    | 5.260  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.90  | 97   | 61989    | 4.939  | ug/L  | 98       |
| 30) Cyclohexane                | 4.98  | 56   | 59308    | 4.471  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 5.12  | 117  | 55854    | 4.895  | ug/L  | 99       |
| 33) Benzene                    | 5.38  | 78   | 146966   | 4.840  | ug/L  | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 39240    | 4.492  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.41  | 83   | 60689    | 4.320  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.43  | 63   | 39653    | 5.047  | ug/L  | 98       |
| 38) Bromodichloromethane       | 6.75  | 83   | 50339    | 4.985  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.26  | 75   | 56985    | 4.724  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 279927   | 50.064 | ug/L  | 98       |
| 42) Toluene                    | 7.63  | 91   | 158398   | 4.680  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 45355    | 4.709  | ug/L  | 95       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 28175    | 4.929  | ug/L  | 95       |
| 47) Tetrachloroethene          | 8.22  | 164  | 33148    | 4.822  | ug/L  | 94       |
| 48) 2-Hexanone                 | 8.36  | 43   | 196116   | 49.082 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.47  | 129  | 34975    | 4.783  | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 27716    | 4.865  | ug/L  | 97       |
| 51) Chlorobenzene              | 9.11  | 112  | 102434   | 4.827  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.24  | 91   | 174227   | 4.671  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.37  | 106  | 64739    | 4.578  | ug/L  | 99       |
| 54) o-Xylene                   | 9.77  | 106  | 64564    | 4.575  | ug/L  | 100      |
| 55) Styrene                    | 9.79  | 104  | 110478   | 4.758  | ug/L  | 98       |
| 56) Isopropylbenzene           | 10.16 | 105  | 169594   | 4.556  | ug/L  | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 37422    | 5.119  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 26883    | 5.210  | ug/L  | 98       |
| 61) Bromoform                  | 9.95  | 173  | 20369    | 4.606  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 83187    | 4.629  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 83076    | 4.548  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 82346    | 4.743  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 6415     | 5.262  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 67234    | 4.669  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 56026    | 4.825  | ug/L  | 99       |
| 69) Naphthalene                | 13.74 | 128  | 101095   | 4.966  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 54205    | 4.688  | ug/L  | 97       |

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

