

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062019\  
 Data File : VU032904.D  
 Acq On : 20 Jun 2019 16:43  
 Operator : JC/SP  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00502

Quant Time: Jun 21 05:32:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 21 05:28:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 91158    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 92068    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 50616    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 21996    | 3.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 74.20%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 20033    | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 79.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 53113    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 88.40%  |
| 20) 2-Butanone-d5              | 4.18   | 46    | 91737    | 55.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.92% |
| 24) Chloroform-d               | 4.64   | 84    | 56201    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.80% |
| 26) 1,2-Dichloroethane-d4      | 5.30   | 65    | 30969    | 5.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 111.60% |
| 32) Benzene-d6                 | 5.33   | 84    | 96974    | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 32761    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.00%  |
| 41) Toluene-d8                 | 7.56   | 98    | 92300    | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.20%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 13348    | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.60%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 67548    | 44.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.44%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 30626    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 103.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 39743    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 87.40%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 43311  | 5.537  | ug/L 99  |
| 3) Chloromethane               | 1.33 | 50  | 38496  | 4.745  | ug/L 99  |
| 5) Vinyl chloride              | 1.40 | 62  | 41214  | 5.169  | ug/L 98  |
| 6) Bromomethane                | 1.62 | 94  | 25283  | 5.198  | ug/L 99  |
| 8) Chloroethane                | 1.69 | 64  | 24279  | 4.766  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 60019  | 5.260  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 31764  | 5.236  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 28104  | 4.852  | ug/L 92  |
| 13) Acetone                    | 2.32 | 43  | 67625  | 52.676 | ug/L 96  |
| 14) Carbon disulfide           | 2.47 | 76  | 89135  | 4.806  | ug/L 100 |
| 15) Methyl Acetate             | 2.61 | 43  | 16714  | 4.745  | ug/L 95  |
| 16) Methylene chloride         | 2.69 | 84  | 31811  | 4.953  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 84624  | 4.996  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 31712  | 5.075  | ug/L 95  |
| 19) 1,1-Dichloroethane         | 3.43 | 63  | 63710  | 5.696  | ug/L 98  |
| 21) 2-Butanone                 | 4.27 | 43  | 105407 | 56.453 | ug/L 97  |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 35179  | 4.974  | ug/L 91  |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00502

Quant Time: Jun 21 05:32:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 21 05:28:00 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.54  | 128  | 16521    | 5.428  | ug/L  | 92       |
| 25) Chloroform                  | 4.67  | 83   | 64681    | 5.661  | ug/L  | 95       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 45185    | 6.017  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 4.90  | 97   | 57200    | 5.098  | ug/L  | 97       |
| 30) Cyclohexane                 | 4.98  | 56   | 52114    | 4.395  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.12  | 117  | 50387    | 4.940  | ug/L  | 100      |
| 33) Benzene                     | 5.38  | 78   | 131700   | 4.852  | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 35814    | 4.587  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.41  | 83   | 55518    | 4.421  | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 36460    | 5.191  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.75  | 83   | 46940    | 5.200  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.26  | 75   | 53468    | 4.959  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 256182   | 51.257 | ug/L  | 96       |
| 42) Toluene                     | 7.63  | 91   | 146774   | 4.852  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.87  | 75   | 43580    | 5.062  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 25744    | 5.038  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.22  | 164  | 29683    | 4.831  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.36  | 43   | 184088   | 51.541 | ug/L  | 97       |
| 49) Dibromochloromethane        | 8.47  | 129  | 31746    | 4.857  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 24155    | 4.743  | ug/L  | 94       |
| 51) Chlorobenzene               | 9.11  | 112  | 93980    | 4.955  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.24  | 91   | 159906   | 4.796  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.37  | 106  | 59876    | 4.737  | ug/L  | 95       |
| 54) o-Xylene                    | 9.77  | 106  | 58234    | 4.616  | ug/L  | 95       |
| 55) Styrene                     | 9.78  | 104  | 101029   | 4.868  | ug/L  | 96       |
| 56) Isopropylbenzene            | 10.16 | 105  | 158366   | 4.759  | ug/L  | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 33329    | 5.100  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 24816    | 5.381  | ug/L  | 100      |
| 61) Bromoform                   | 9.95  | 173  | 17977    | 4.420  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 78678    | 4.762  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 81593    | 4.857  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.87 | 146  | 77077    | 4.828  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 5771     | 5.148  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 66286    | 5.006  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 54509    | 5.105  | ug/L  | 97       |
| 69) Naphthalene                 | 13.74 | 128  | 88229    | 4.714  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 51436    | 4.837  | ug/L  | 97       |

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

