

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU040819\  
 Data File : VU030844.D  
 Acq On : 07 Apr 2019 10:00  
 Operator : JC/SP  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00508

Quant Time: Apr 08 03:34:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Apr 02 07:56:08 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 264865   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 259105   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 121689   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 97550    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 96.40%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 84020    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.00% |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 206619   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 99.80%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 287736   | 55.17    | ug/L | -0.03   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.34% |
| 24) Chloroform-d               | 4.64   | 84    | 177943   | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.60% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 95267    | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.60% |
| 32) Benzene-d6                 | 5.33   | 84    | 336599   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 111561   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.40%  |
| 41) Toluene-d8                 | 7.56   | 98    | 303260   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 42603    | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.20% |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 210699   | 57.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 114.02% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 89207    | 5.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 98573    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.80%  |

## Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 149764 | 5.076  | ug/L 100 |
| 3) Chloromethane               | 1.32 | 50  | 171567 | 4.960  | ug/L 99  |
| 5) Vinyl chloride              | 1.40 | 62  | 159268 | 5.025  | ug/L 96  |
| 6) Bromomethane                | 1.62 | 94  | 80450  | 5.189  | ug/L 98  |
| 8) Chloroethane                | 1.69 | 64  | 89545  | 4.967  | ug/L 97  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 189107 | 5.264  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 104684 | 5.240  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 98785  | 5.111  | ug/L 95  |
| 13) Acetone                    | 2.32 | 43  | 227159 | 56.336 | ug/L 98  |
| 14) Carbon disulfide           | 2.47 | 76  | 341999 | 5.046  | ug/L 99  |
| 15) Methyl Acetate             | 2.61 | 43  | 63467  | 6.093  | ug/L 94  |
| 16) Methylene chloride         | 2.69 | 84  | 111431 | 4.946  | ug/L 90  |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 288555 | 5.577  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 105072 | 5.150  | ug/L 96  |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 211702 | 4.905  | ug/L 99  |
| 21) 2-Butanone                 | 4.27 | 43  | 360961 | 56.484 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 115154 | 5.293  | ug/L 100 |

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 MSVOA\_U  
 ClientSampleId :  
 VSTD00508

Quant Time: Apr 08 03:34:47 2019  
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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Apr 02 07:56:08 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.54  | 128  | 46813    | 5.386  | ug/L  | 98       |
| 25) Chloroform                 | 4.67  | 83   | 198479   | 5.045  | ug/L  | 94       |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 132265   | 5.181  | ug/L  | 96       |
| 29) 1,1,1-Trichloroethane      | 4.91  | 97   | 165593   | 5.017  | ug/L  | 99       |
| 30) Cyclohexane                | 4.98  | 56   | 189333   | 4.751  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 5.13  | 117  | 144783   | 5.224  | ug/L  | 98       |
| 33) Benzene                    | 5.38  | 78   | 433905   | 4.950  | ug/L  | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 107841   | 4.915  | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.41  | 83   | 169999   | 4.855  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.43  | 63   | 118926   | 4.930  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.75  | 83   | 142504   | 5.059  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 160013   | 4.960  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 839083   | 55.763 | ug/L  | 100      |
| 42) Toluene                    | 7.63  | 91   | 447197   | 5.087  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 129875   | 5.202  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 76187    | 5.297  | ug/L  | 97       |
| 47) Tetrachloroethene          | 8.22  | 164  | 77657    | 5.046  | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.36  | 43   | 603902   | 57.922 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.47  | 129  | 88770    | 5.161  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 74221    | 5.536  | ug/L  | 98       |
| 51) Chlorobenzene              | 9.12  | 112  | 262570   | 4.844  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.25  | 91   | 467327   | 4.985  | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.37  | 106  | 170204   | 5.197  | ug/L  | 97       |
| 54) o-Xylene                   | 9.77  | 106  | 162801   | 5.069  | ug/L  | 99       |
| 55) Styrene                    | 9.79  | 104  | 282095   | 5.207  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.16 | 105  | 433466   | 5.053  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 102554   | 5.363  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 73347    | 5.442  | ug/L  | 97       |
| 61) Bromoform                  | 9.95  | 173  | 51087    | 5.544  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 185506   | 4.831  | ug/L  | 94       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 190706   | 4.738  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 184667   | 4.943  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 15861    | 5.487  | ug/L  | 87       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 141284   | 4.931  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 116583   | 5.269  | ug/L  | 98       |
| 69) Naphthalene                | 13.74 | 128  | 202115   | 5.688  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 112571   | 5.459  | ug/L  | 97       |

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

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