

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021920\  
 Data File : VU036860.D  
 Acq On : 19 Feb 2020 20:35  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00525

Quant Time: Feb 20 04:51:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Feb 20 04:46:21 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 138226   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 127418   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 58842    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 47780    | 4.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 80.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 44910    | 4.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 90427    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.00%  |
| 20) 2-Butanone-d5              | 4.68   | 46    | 129279   | 51.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.72% |
| 24) Chloroform-d               | 5.11   | 84    | 86623    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 48197    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80%  |
| 32) Benzene-d6                 | 5.76   | 84    | 182364   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 58527    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.20%  |
| 41) Toluene-d8                 | 7.92   | 98    | 169502   | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.00%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 21290    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.00%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 109182   | 50.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 45075    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 54517    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.80%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 39840    | 4.364  | ug/L  | 99     |
| 3) Chloromethane               | 1.54 | 50   | 43391    | 4.567  | ug/L  | 100    |
| 5) Vinyl chloride              | 1.62 | 62   | 47864    | 4.313  | ug/L  | 97     |
| 6) Bromomethane                | 1.87 | 94   | 22625    | 3.393  | ug/L  | 96     |
| 8) Chloroethane                | 1.95 | 64   | 31826    | 4.105  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.16 | 101  | 64035    | 4.385  | ug/L  | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101  | 41871    | 4.491  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.60 | 96   | 39100    | 4.650  | ug/L  | 95     |
| 13) Acetone                    | 2.67 | 43   | 82260    | 25.806 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.82 | 76   | 84745    | 4.177  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.99 | 43   | 20794    | 4.916  | ug/L  | 99     |
| 16) Methylene chloride         | 3.08 | 84   | 46682    | 3.294  | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 3.41 | 73   | 119364   | 4.793  | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96   | 40716    | 4.693  | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.91 | 63   | 87186    | 4.792  | ug/L  | 99     |
| 21) 2-Butanone                 | 4.76 | 43   | 138991   | 37.483 | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96   | 50011    | 4.763  | ug/L  | 94     |

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 MSVOA\_U  
 ClientSampleId :  
 VSTD00525

Quant Time: Feb 20 04:51:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Feb 20 04:46:21 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 19668    | 4.712  | ug/L  | 97       |
| 25) Chloroform                  | 5.13  | 83   | 87987    | 4.528  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 57308    | 4.627  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 67402    | 4.816  | ug/L  | 99       |
| 30) Cyclohexane                 | 5.42  | 56   | 72018    | 4.845  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 50406    | 4.465  | ug/L  | 96       |
| 33) Benzene                     | 5.81  | 78   | 187345   | 4.767  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 47055    | 4.701  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.79  | 83   | 72960    | 4.593  | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 52068    | 4.852  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.14  | 83   | 60610    | 4.733  | ug/L  | 95       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 73181    | 4.713  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 345688   | 49.920 | ug/L  | 98       |
| 42) Toluene                     | 8.00  | 91   | 203632   | 4.824  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 57686    | 4.754  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 35746    | 4.788  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.58  | 164  | 30719    | 4.511  | ug/L  | 95       |
| 48) 2-Hexanone                  | 8.71  | 43   | 247775   | 41.811 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.83  | 129  | 36536    | 4.732  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 32051    | 4.753  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 125032   | 4.788  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 224362   | 4.759  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.71  | 106  | 83310    | 4.802  | ug/L  | 94       |
| 54) o-Xylene                    | 10.12 | 106  | 82112    | 4.820  | ug/L  | 94       |
| 55) Styrene                     | 10.13 | 104  | 136635   | 4.757  | ug/L  | 100      |
| 56) Isopropylbenzene            | 10.50 | 105  | 219133   | 4.806  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 46384    | 4.746  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 34460    | 4.864  | ug/L  | 100      |
| 61) Bromoform                   | 10.31 | 173  | 18731    | 4.620  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 94134    | 4.643  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 93938    | 4.674  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 91403    | 4.677  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 7164     | 4.912  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 67229    | 4.710  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 55756    | 5.180  | ug/L  | 98       |
| 69) Naphthalene                 | 14.12 | 128  | 178791   | 9.169  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 51526    | 5.335  | ug/L  | 98       |

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

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