

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\  
 Data File : VU037765.D  
 Acq On : 17 Apr 2020 10:13  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00512

Quant Time: Apr 18 01:08:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Apr 17 14:32:46 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 317664   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 306223   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 154860   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 86884    | 3.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 72.20% |
| 7) Chloroethane-d5             | 1.93   | 69    | 79785    | 3.93     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 78.60% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 169359   | 3.96     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 79.20% |
| 20) 2-Butanone-d5              | 4.66   | 46    | 318811   | 48.29    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.58% |
| 24) Chloroform-d               | 5.10   | 84    | 170271   | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.80% |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 98767    | 4.48     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.60% |
| 32) Benzene-d6                 | 5.76   | 84    | 339553   | 4.09     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 81.80% |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 117524   | 4.36     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 87.20% |
| 41) Toluene-d8                 | 7.92   | 98    | 306000   | 4.07     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 81.40% |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 51737    | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.60% |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 285232   | 46.07    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 92.14% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 96963    | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 118090   | 4.27     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.40% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 138597 | 5.029  | ug/L 98  |
| 3) Chloromethane               | 1.54 | 50  | 152702 | 4.482  | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 158608 | 4.738  | ug/L 98  |
| 6) Bromomethane                | 1.87 | 94  | 69263  | 3.604  | ug/L 100 |
| 8) Chloroethane                | 1.95 | 64  | 89808  | 4.569  | ug/L 99  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 172700 | 4.808  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 100997 | 4.830  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 97385  | 4.442  | ug/L 94  |
| 13) Acetone                    | 2.65 | 43  | 207749 | 47.729 | ug/L 95  |
| 14) Carbon disulfide           | 2.82 | 76  | 347601 | 4.343  | ug/L 99  |
| 15) Methyl Acetate             | 2.98 | 43  | 56696  | 4.685  | ug/L 97  |
| 16) Methylene chloride         | 3.08 | 84  | 114657 | 4.639  | ug/L 97  |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 292442 | 4.607  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 3.38 | 96  | 108655 | 4.572  | ug/L 95  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 220725 | 4.802  | ug/L 97  |
| 21) 2-Butanone                 | 4.74 | 43  | 374763 | 47.389 | ug/L 97  |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 118625 | 4.620  | ug/L 96  |

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 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00512

Quant Time: Apr 18 01:08:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Apr 17 14:32:46 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 5.01  | 128  | 50508    | 4.641  | ug/L   | 98       |
| 25) Chloroform                  | 5.13  | 83   | 208808   | 4.782  | ug/L   | 96       |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 145028   | 4.913  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane       | 5.35  | 97   | 177804   | 4.785  | ug/L   | 98       |
| 30) Cyclohexane                 | 5.42  | 56   | 222803   | 4.845  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 143005   | 4.830  | ug/L   | 99       |
| 33) Benzene                     | 5.81  | 78   | 475018   | 4.695  | ug/L   | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 118096   | 4.750  | ug/L   | 98       |
| 35) Methylcyclohexane           | 6.79  | 83   | 213634   | 4.902  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 127962   | 4.769  | ug/L   | 100      |
| 38) Bromodichloromethane        | 7.13  | 83   | 152735   | 4.787  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.63  | 75   | 198225   | 4.719  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 927167   | 46.999 | ug/L   | 99       |
| 42) Toluene                     | 8.00  | 91   | 504213   | 4.758  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 171156   | 4.694  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 84016    | 4.646  | ug/L   | 98       |
| 47) Tetrachloroethene           | 8.58  | 164  | 86625    | 4.848  | ug/L   | 99       |
| 48) 2-Hexanone                  | 8.71  | 43   | 667915   | 47.288 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.83  | 129  | 98655    | 4.774  | ug/L   | 100      |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 79686    | 4.583  | ug/L # | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 306757   | 4.744  | ug/L   | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 569359   | 4.829  | ug/L   | 98       |
| 53) m,p-Xylene                  | 9.71  | 106  | 217235   | 4.868  | ug/L   | 97       |
| 54) o-Xylene                    | 10.12 | 106  | 208399   | 4.745  | ug/L   | 98       |
| 55) Styrene                     | 10.13 | 104  | 358089   | 4.769  | ug/L   | 98       |
| 56) Isopropylbenzene            | 10.50 | 105  | 566471   | 4.917  | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 109228   | 4.640  | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 80401    | 4.578  | ug/L   | 99       |
| 61) Bromoform                   | 10.31 | 173  | 56652    | 4.604  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 246104   | 4.745  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 245393   | 4.718  | ug/L   | 100      |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 232209   | 4.756  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 20544    | 4.539  | ug/L   | 98       |
| 67) 1,3,5-Trichlorobenzene      | 13.25 | 180  | 191080   | 5.024  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 170743   | 4.891  | ug/L   | 99       |
| 69) Naphthalene                 | 14.12 | 128  | 323935   | 4.582  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 14.37 | 180  | 150556   | 4.840  | ug/L   | 99       |

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

