

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100320\  
 Data File : VU040477.D  
 Acq On : 03 Oct 2020 13:56  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00510

Quant Time: Oct 05 00:57:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR092920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 03 00:09:31 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 134471   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 130813   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 68691    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 33689    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 101.20% |
| 7) Chloroethane-d5             | 1.92   | 69    | 27294    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 78130    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.60%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 134546   | 40.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 81.38%  |
| 24) Chloroform-d               | 5.08   | 84    | 72944    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 42607    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.40%  |
| 32) Benzene-d6                 | 5.74   | 84    | 135155   | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.80% |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 45822    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.20%  |
| 41) Toluene-d8                 | 7.90   | 98    | 126185   | 5.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.40% |
| 43) trans-1,3-Dichloropropene- | 8.18   | 79    | 19399    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 98.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 96484    | 41.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 83.56%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 40084    | 4.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 85.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 46600    | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.40%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 61527  | 4.563  | ug/L 97  |
| 3) Chloromethane               | 1.53 | 50  | 55651  | 4.208  | ug/L 99  |
| 5) Vinyl chloride              | 1.61 | 62  | 58296  | 4.485  | ug/L 98  |
| 6) Bromomethane                | 1.87 | 94  | 28196  | 4.461  | ug/L 98  |
| 8) Chloroethane                | 1.94 | 64  | 35695  | 4.634  | ug/L 98  |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 81890  | 4.567  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 52651  | 4.599  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 46776  | 4.568  | ug/L 93  |
| 13) Acetone                    | 2.66 | 43  | 120767 | 43.826 | ug/L 100 |
| 14) Carbon disulfide           | 2.81 | 76  | 139200 | 4.301  | ug/L 99  |
| 15) Methyl Acetate             | 2.97 | 43  | 28728  | 4.329  | ug/L 99  |
| 16) Methylene chloride         | 3.06 | 84  | 55083  | 4.282  | ug/L 95  |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 125703 | 4.455  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 48091  | 4.542  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 99519  | 4.579  | ug/L 99  |
| 21) 2-Butanone                 | 4.73 | 43  | 203264 | 45.955 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96  | 52414  | 4.474  | ug/L 97  |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00510

Quant Time: Oct 05 00:57:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR092920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 03 00:09:31 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.99  | 128  | 24835    | 4.631  | ug/L   | 98       |
| 25) Chloroform                  | 5.11  | 83   | 100230   | 4.521  | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 72286    | 4.709  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 84881    | 4.750  | ug/L   | 99       |
| 30) Cyclohexane                 | 5.40  | 56   | 83541    | 4.519  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 73417    | 4.792  | ug/L   | 99       |
| 33) Benzene                     | 5.79  | 78   | 208030   | 4.743  | ug/L   | 100      |
| 34) Trichloroethene             | 6.55  | 95   | 52812    | 4.536  | ug/L   | 95       |
| 35) Methylcyclohexane           | 6.77  | 83   | 81536    | 4.775  | ug/L   | 96       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 58800    | 4.814  | ug/L   | 99       |
| 38) Bromodichloromethane        | 7.11  | 83   | 71501    | 4.741  | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 7.61  | 75   | 78389    | 4.785  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 453301   | 47.393 | ug/L   | 100      |
| 42) Toluene                     | 7.97  | 91   | 214375   | 4.767  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene   | 8.21  | 75   | 71831    | 4.756  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 8.40  | 97   | 40694    | 4.753  | ug/L   | 95       |
| 47) Tetrachloroethene           | 8.56  | 164  | 38643    | 4.674  | ug/L   | 97       |
| 48) 2-Hexanone                  | 8.69  | 43   | 342171   | 48.549 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.81  | 129  | 48476    | 4.867  | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 38945    | 4.742  | ug/L # | 99       |
| 51) Chlorobenzene               | 9.45  | 112  | 139405   | 4.794  | ug/L   | 100      |
| 52) Ethylbenzene                | 9.57  | 91   | 231222   | 4.738  | ug/L   | 100      |
| 53) m,p-Xylene                  | 9.69  | 106  | 88340    | 4.859  | ug/L   | 94       |
| 54) o-Xylene                    | 10.10 | 106  | 83065    | 4.857  | ug/L   | 94       |
| 55) Styrene                     | 10.11 | 104  | 144935   | 4.858  | ug/L   | 100      |
| 56) Isopropylbenzene            | 10.48 | 105  | 223222   | 4.837  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 52476    | 4.522  | ug/L # | 95       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 39815    | 4.497  | ug/L   | 99       |
| 61) Bromoform                   | 10.29 | 173  | 26128    | 4.602  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 108050   | 4.751  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 111154   | 4.699  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 102914   | 4.655  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 9221     | 4.627  | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 74269    | 4.575  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 60311    | 4.623  | ug/L   | 99       |
| 69) Naphthalene                 | 14.08 | 128  | 102668   | 4.605  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 57046    | 4.779  | ug/L   | 99       |

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

