

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071020\  
 Data File : VU039424.D  
 Acq On : 10 Jul 2020 12:25  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00514

Quant Time: Jul 11 02:47:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 10 15:17:23 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 105607   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 101055   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 50937    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 29177    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 95.40%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 26184    | 4.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 83.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 58395    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.00%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 142592   | 50.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.82% |
| 24) Chloroform-d               | 5.08   | 84    | 63271    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 39006    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.40%  |
| 32) Benzene-d6                 | 5.75   | 84    | 113466   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 39186    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.60%  |
| 41) Toluene-d8                 | 7.91   | 98    | 96563    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.60%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 17613    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.40%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 110882   | 49.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.04%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 40037    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 44153    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.20%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 36120  | 5.643  | ug/L 99  |
| 3) Chloromethane               | 1.53 | 50  | 37918  | 4.890  | ug/L 98  |
| 5) Vinyl chloride              | 1.61 | 62  | 42951  | 4.988  | ug/L 97  |
| 6) Bromomethane                | 1.87 | 94  | 19398  | 5.231  | ug/L 98  |
| 8) Chloroethane                | 1.94 | 64  | 28027  | 4.505  | ug/L 94  |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 82836  | 5.540  | ug/L 97  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 32666  | 5.324  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 31354  | 4.992  | ug/L 90  |
| 13) Acetone                    | 2.67 | 43  | 79524  | 52.606 | ug/L 59  |
| 14) Carbon disulfide           | 2.81 | 76  | 103108 | 4.660  | ug/L 99  |
| 15) Methyl Acetate             | 2.97 | 43  | 18259  | 4.573  | ug/L 95  |
| 16) Methylene chloride         | 3.06 | 84  | 36909  | 4.672  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 96032  | 4.852  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 34028  | 4.894  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 66108  | 4.859  | ug/L 100 |
| 21) 2-Butanone                 | 4.74 | 43  | 134193 | 49.735 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96  | 37734  | 4.840  | ug/L 100 |

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

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00514

Quant Time: Jul 11 02:47:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 10 15:17:23 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.00  | 128  | 17458    | 4.929  | ug/L  | 98       |
| 25) Chloroform                  | 5.11  | 83   | 68554    | 4.990  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 50111    | 5.042  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 58905    | 4.949  | ug/L  | 99       |
| 30) Cyclohexane                 | 5.41  | 56   | 61736    | 4.927  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 49974    | 4.921  | ug/L  | 99       |
| 33) Benzene                     | 5.79  | 78   | 145820   | 4.826  | ug/L  | 100      |
| 34) Trichloroethene             | 6.56  | 95   | 38255    | 4.898  | ug/L  | 96       |
| 35) Methylcyclohexane           | 6.77  | 83   | 63824    | 5.100  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 39092    | 4.746  | ug/L  | 98       |
| 38) Bromodichloromethane        | 7.12  | 83   | 49128    | 4.671  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.62  | 75   | 59170    | 4.753  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 329189   | 47.912 | ug/L  | 99       |
| 42) Toluene                     | 7.98  | 91   | 155142   | 4.795  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 8.22  | 75   | 52249    | 4.730  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 8.41  | 97   | 28932    | 4.891  | ug/L  | 94       |
| 47) Tetrachloroethene           | 8.56  | 164  | 27898    | 5.135  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.69  | 43   | 243282   | 48.022 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.82  | 129  | 34248    | 4.780  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 28088    | 4.673  | ug/L  | 97       |
| 51) Chlorobenzene               | 9.45  | 112  | 96473    | 4.880  | ug/L  | 97       |
| 52) Ethylbenzene                | 9.57  | 91   | 175305   | 4.903  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.70  | 106  | 66288    | 4.920  | ug/L  | 97       |
| 54) o-Xylene                    | 10.10 | 106  | 62832    | 4.791  | ug/L  | 98       |
| 55) Styrene                     | 10.11 | 104  | 108036   | 4.734  | ug/L  | 98       |
| 56) Isopropylbenzene            | 10.48 | 105  | 175246   | 4.941  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 39086    | 4.747  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 28658    | 4.721  | ug/L  | 98       |
| 61) Bromoform                   | 10.29 | 173  | 19513    | 4.545  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 77969    | 4.885  | ug/L  | 96       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 77937    | 4.867  | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 75766    | 4.735  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 6403     | 4.530  | ug/L  | 88       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 58859    | 4.928  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 50090    | 4.900  | ug/L  | 96       |
| 69) Naphthalene                 | 14.08 | 128  | 88023    | 4.280  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 46113    | 4.869  | ug/L  | 98       |

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

