

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041520\  
 Data File : VU037743.D  
 Acq On : 15 Apr 2020 19:11  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00509

Quant Time: Apr 16 01:30:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 16 01:23:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 268116   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 261021   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 130404   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 91291    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.00%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 81788    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 166074   | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.20%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 288762   | 51.82    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.64% |
| 24) Chloroform-d               | 5.10   | 84    | 159955   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 94641    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.60% |
| 32) Benzene-d6                 | 5.76   | 84    | 325537   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 110252   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.00%  |
| 41) Toluene-d8                 | 7.92   | 98    | 290309   | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.60%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 47278    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.60%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 268980   | 50.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.94% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 91500    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.00% |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 108046   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.80%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 120913 | 5.198  | ug/L 99  |
| 3) Chloromethane               | 1.54 | 50  | 140394 | 4.882  | ug/L 99  |
| 5) Vinyl chloride              | 1.62 | 62  | 141947 | 5.024  | ug/L 97  |
| 6) Bromomethane                | 1.87 | 94  | 52654  | 3.246  | ug/L 99  |
| 8) Chloroethane                | 1.95 | 64  | 79390  | 4.786  | ug/L 100 |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 152911 | 5.044  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 85960  | 4.870  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 85195  | 4.605  | ug/L 96  |
| 13) Acetone                    | 2.65 | 43  | 169547 | 46.151 | ug/L 98  |
| 14) Carbon disulfide           | 2.82 | 76  | 314748 | 4.659  | ug/L 100 |
| 15) Methyl Acetate             | 2.98 | 43  | 49246  | 4.821  | ug/L 99  |
| 16) Methylene chloride         | 3.08 | 84  | 100157 | 4.802  | ug/L 95  |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 258019 | 4.816  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 96950  | 4.833  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 196727 | 5.070  | ug/L 99  |
| 21) 2-Butanone                 | 4.75 | 43  | 324458 | 48.609 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 106270 | 4.903  | ug/L 100 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041520\  
 Data File : VU037743.D  
 Acq On : 15 Apr 2020 19:11  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00509

Quant Time: Apr 16 01:30:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 16 01:23:00 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.01  | 128  | 43206    | 4.703  | ug/L  | 95       |
| 25) Chloroform                  | 5.13  | 83   | 186622   | 5.063  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 128074   | 5.141  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 5.35  | 97   | 157005   | 4.957  | ug/L  | 98       |
| 30) Cyclohexane                 | 5.42  | 56   | 197994   | 5.051  | ug/L  | 96       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 124895   | 4.949  | ug/L  | 97       |
| 33) Benzene                     | 5.81  | 78   | 419991   | 4.870  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 104739   | 4.942  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.79  | 83   | 183686   | 4.945  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 114557   | 5.008  | ug/L  | 98       |
| 38) Bromodichloromethane        | 7.13  | 83   | 134164   | 4.933  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.63  | 75   | 171178   | 4.781  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 822617   | 48.920 | ug/L  | 99       |
| 42) Toluene                     | 7.99  | 91   | 442210   | 4.895  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 149031   | 4.795  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 8.42  | 97   | 73880    | 4.793  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.57  | 164  | 73144    | 4.803  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.71  | 43   | 583974   | 48.505 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.83  | 129  | 81793    | 4.643  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 70848    | 4.780  | ug/L  | 95       |
| 51) Chlorobenzene               | 9.47  | 112  | 264252   | 4.794  | ug/L  | 97       |
| 52) Ethylbenzene                | 9.59  | 91   | 496803   | 4.943  | ug/L  | 97       |
| 53) m,p-Xylene                  | 9.71  | 106  | 186795   | 4.911  | ug/L  | 100      |
| 54) o-Xylene                    | 10.12 | 106  | 181769   | 4.855  | ug/L  | 99       |
| 55) Styrene                     | 10.13 | 104  | 307860   | 4.811  | ug/L  | 98       |
| 56) Isopropylbenzene            | 10.50 | 105  | 484137   | 4.930  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 96300    | 4.800  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 73150    | 4.887  | ug/L  | 98       |
| 61) Bromoform                   | 10.31 | 173  | 48027    | 4.635  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 206800   | 4.735  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 208076   | 4.750  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 190551   | 4.635  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 17565    | 4.609  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 151695   | 4.736  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 138668   | 4.717  | ug/L  | 99       |
| 69) Naphthalene                 | 14.11 | 128  | 271353   | 4.558  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 124476   | 4.752  | ug/L  | 99       |

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

