

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071320\  
 Data File : VU039467.D  
 Acq On : 13 Jul 2020 13:11  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00517

Quant Time: Jul 14 07:09:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jul 13 03:55:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 113547   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 110033   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 55222    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 35150    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 106.80% |
| 7) Chloroethane-d5             | 1.92   | 69    | 36573    | 5.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 108.60% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 69730    | 5.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 107.80% |
| 20) 2-Butanone-d5              | 4.65   | 46    | 140924   | 46.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.60%  |
| 24) Chloroform-d               | 5.08   | 84    | 76098    | 5.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 108.60% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 46824    | 5.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 106.40% |
| 32) Benzene-d6                 | 5.74   | 84    | 148587   | 5.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 112.20% |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 47422    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.00% |
| 41) Toluene-d8                 | 7.91   | 98    | 136946   | 5.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 119.20% |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 22231    | 5.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 108.20% |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 114455   | 46.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.90%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 45174    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 53243    | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 108.00% |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 34307  | 4.985 ug/L  | 97     |
| 3) Chloromethane               | 1.53 | 50  | 36689  | 4.400 ug/L  | 98     |
| 5) Vinyl chloride              | 1.61 | 62  | 40547  | 4.379 ug/L  | 99     |
| 6) Bromomethane                | 1.87 | 94  | 22784  | 5.714 ug/L  | 98     |
| 8) Chloroethane                | 1.94 | 64  | 32657  | 4.882 ug/L  | 98     |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 83681  | 5.205 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 32545  | 4.933 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 29884  | 4.425 ug/L  | 86     |
| 13) Acetone                    | 2.66 | 43  | 75950  | 46.729 ug/L | 99     |
| 14) Carbon disulfide           | 2.81 | 76  | 99093  | 4.165 ug/L  | 98     |
| 15) Methyl Acetate             | 2.97 | 43  | 18674  | 4.350 ug/L  | 94     |
| 16) Methylene chloride         | 3.06 | 84  | 36829  | 4.336 ug/L  | 91     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 99711  | 4.686 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 34221  | 4.578 ug/L  | 91     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 67929  | 4.644 ug/L  | 100    |
| 21) 2-Butanone                 | 4.73 | 43  | 138645 | 47.792 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96  | 39771  | 4.744 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 :  
 VSTD00517

Quant Time: Jul 14 07:09:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jul 13 03:55:40 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.99  | 128  | 18217    | 4.784  | ug/L   | 99       |
| 25) Chloroform                  | 5.11  | 83   | 74163    | 5.021  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 55135    | 5.160  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 64736    | 4.995  | ug/L   | 98       |
| 30) Cyclohexane                 | 5.40  | 56   | 65588    | 4.807  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 54488    | 4.928  | ug/L   | 99       |
| 33) Benzene                     | 5.79  | 78   | 156078   | 4.744  | ug/L   | 100      |
| 34) Trichloroethene             | 6.56  | 95   | 41675    | 4.900  | ug/L   | 96       |
| 35) Methylcyclohexane           | 6.77  | 83   | 66958    | 4.914  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 41832    | 4.665  | ug/L   | 100      |
| 38) Bromodichloromethane        | 7.12  | 83   | 54492    | 4.758  | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene     | 7.62  | 75   | 62402    | 4.603  | ug/L   | 94       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 346440   | 46.309 | ug/L   | 99       |
| 42) Toluene                     | 7.98  | 91   | 169176   | 4.802  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 8.22  | 75   | 58150    | 4.835  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 8.41  | 97   | 31415    | 4.877  | ug/L   | 94       |
| 47) Tetrachloroethene           | 8.56  | 164  | 30167    | 5.099  | ug/L   | 97       |
| 48) 2-Hexanone                  | 8.69  | 43   | 260048   | 47.143 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.82  | 129  | 38581    | 4.945  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 32897    | 5.027  | ug/L   | 97       |
| 51) Chlorobenzene               | 9.45  | 112  | 109636   | 5.093  | ug/L   | 100      |
| 52) Ethylbenzene                | 9.57  | 91   | 193329   | 4.966  | ug/L   | 99       |
| 53) m,p-Xylene                  | 9.70  | 106  | 74786    | 5.098  | ug/L   | 96       |
| 54) o-Xylene                    | 10.10 | 106  | 70761    | 4.955  | ug/L   | 95       |
| 55) Styrene                     | 10.11 | 104  | 120332   | 4.843  | ug/L   | 97       |
| 56) Isopropylbenzene            | 10.48 | 105  | 196903   | 5.098  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 43360    | 4.836  | ug/L   | 95       |
| 59) 1,2,3-Trichloropropane      | 10.83 | 75   | 31154    | 4.714  | ug/L   | 98       |
| 61) Bromoform                   | 10.29 | 173  | 23632    | 5.078  | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 86723    | 5.012  | ug/L   | 96       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 86250    | 4.968  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 84653    | 4.880  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 7378     | 4.815  | ug/L # | 82       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 65156    | 5.032  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 55540    | 5.012  | ug/L   | 97       |
| 69) Naphthalene                 | 14.08 | 128  | 101502   | 4.552  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 49655    | 4.836  | ug/L   | 98       |

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

