

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050119\  
 Data File : VV010606.D  
 Acq On : 01 May 2019 15:50  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

Quant Time: May 02 08:18:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu May 02 08:11:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 87633    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 89222    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 41311    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 23234    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 17787    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 107.20% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 49537    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.40%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 61139    | 50.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.10% |
| 24) Chloroform-d               | 4.40   | 84    | 53581    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 26326    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.00%  |
| 32) Benzene-d6                 | 5.10   | 84    | 105637   | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 31595    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 101120   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.00%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 11170    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 49406    | 50.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.72% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 22749    | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 36891    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.00%  |

## Target Compounds

|                                |      |     |       |        | Ovalue   |
|--------------------------------|------|-----|-------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 41661 | 5.219  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 33972 | 5.010  | ug/L 96  |
| 5) Vinyl chloride              | 1.32 | 62  | 34721 | 5.069  | ug/L 99  |
| 6) Bromomethane                | 1.54 | 94  | 21733 | 5.269  | ug/L 97  |
| 8) Chloroethane                | 1.60 | 64  | 17666 | 5.886  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 54506 | 4.979  | ug/L 96  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 30969 | 5.381  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 26508 | 5.069  | ug/L 95  |
| 13) Acetone                    | 2.22 | 43  | 35673 | 49.671 | ug/L 97  |
| 14) Carbon disulfide           | 2.31 | 76  | 73080 | 5.107  | ug/L 100 |
| 15) Methyl Acetate             | 2.47 | 43  | 11549 | 5.198  | ug/L 99  |
| 16) Methylene chloride         | 2.53 | 84  | 30887 | 4.947  | ug/L 92  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 64312 | 5.179  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 31249 | 5.217  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 58488 | 5.332  | ug/L 96  |
| 21) 2-Butanone                 | 4.04 | 43  | 69698 | 57.101 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 33637 | 5.231  | ug/L 88  |

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 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

Quant Time: May 02 08:18:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu May 02 08:11:40 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 14227    | 5.225  | ug/L   | 94       |
| 25) Chloroform                  | 4.42  | 83   | 59914    | 5.111  | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 33589    | 5.003  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 53617    | 5.233  | ug/L   | 100      |
| 30) Cyclohexane                 | 4.72  | 56   | 48830    | 5.064  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 48258    | 5.263  | ug/L   | 97       |
| 33) Benzene                     | 5.14  | 78   | 126875   | 5.161  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 36004    | 5.201  | ug/L   | 97       |
| 35) Methylcyclohexane           | 6.17  | 83   | 52529    | 5.238  | ug/L   | 96       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 30465    | 5.071  | ug/L   | 98       |
| 38) Bromodichloromethane        | 6.55  | 83   | 39454    | 5.150  | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 40671    | 4.995  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 171869   | 52.110 | ug/L   | 98       |
| 42) Toluene                     | 7.43  | 91   | 141851   | 5.158  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 32986    | 5.194  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 21634    | 5.068  | ug/L   | 88       |
| 47) Tetrachloroethene           | 8.02  | 164  | 26365    | 4.825  | ug/L   | 98       |
| 48) 2-Hexanone                  | 8.19  | 43   | 126533   | 53.484 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 26575    | 5.346  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 19682    | 5.160  | ug/L   | 96       |
| 51) Chlorobenzene               | 8.92  | 112  | 91219    | 5.101  | ug/L   | 97       |
| 52) Ethylbenzene                | 9.05  | 91   | 154310   | 5.290  | ug/L   | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 60519    | 5.417  | ug/L   | 97       |
| 54) o-xylene                    | 9.59  | 106  | 60149    | 5.530  | ug/L   | 92       |
| 55) Styrene                     | 9.60  | 104  | 98011    | 5.431  | ug/L   | 100      |
| 56) Isopropylbenzene            | 9.97  | 105  | 155280   | 5.501  | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 23495    | 4.873  | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 18238    | 5.338  | ug/L   | 99       |
| 61) Bromoform                   | 9.77  | 173  | 12080    | 4.850  | ug/L   | 96       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 68848    | 5.194  | ug/L   | 94       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 67016    | 5.074  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 64332    | 5.105  | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 3860     | 5.344  | ug/L # | 81       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 52348    | 5.264  | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 38769    | 5.196  | ug/L   | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 59680    | 5.229  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 35583    | 5.348  | ug/L   | 98       |

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

