

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV083019\  
 Data File : VV012470.D  
 Acq On : 30 Aug 2019 23:53  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00557

Quant Time: Aug 31 01:42:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR082919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Aug 31 01:38:02 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 211929   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 210186   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 107276   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 84484    | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 89.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 64729    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 153045   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 98.80%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 192892   | 50.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 100.20% |
| 24) Chloroform-d               | 4.40   | 84    | 156243   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 75660    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 32) Benzene-d6                 | 5.09   | 84    | 302129   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 95231    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 285314   | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.80% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 32865    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.40%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 130747   | 47.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.50%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 64511    | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 96526    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.60%  |

## Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 152211 | 5.348  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 145462 | 5.193  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 136068 | 5.142  | ug/L 99  |
| 6) Bromomethane                | 1.54 | 94  | 71855  | 5.000  | ug/L 96  |
| 8) Chloroethane                | 1.60 | 64  | 76543  | 5.392  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 184497 | 5.383  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 93752  | 5.503  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 86299  | 5.373  | ug/L 98  |
| 13) Acetone                    | 2.23 | 43  | 145214 | 51.622 | ug/L 66  |
| 14) Carbon disulfide           | 2.32 | 76  | 259619 | 5.288  | ug/L 100 |
| 15) Methyl Acetate             | 2.47 | 43  | 37959  | 5.481  | ug/L 100 |
| 16) Methylene chloride         | 2.53 | 84  | 91858  | 5.002  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 229560 | 5.200  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 107843 | 5.242  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 213526 | 5.303  | ug/L 100 |
| 21) 2-Butanone                 | 4.05 | 43  | 275777 | 53.329 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 110878 | 5.149  | ug/L 96  |

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 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00557

Quant Time: Aug 31 01:42:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR082919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Aug 31 01:38:02 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 49391    | 5.281  | ug/L  | 96       |
| 25) Chloroform                 | 4.42  | 83   | 213452   | 5.060  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 126188   | 5.334  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane      | 4.65  | 97   | 176965   | 5.198  | ug/L  | 97       |
| 30) Cyclohexane                | 4.72  | 56   | 185336   | 5.400  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 157009   | 5.242  | ug/L  | 99       |
| 33) Benzene                    | 5.14  | 78   | 467135   | 5.369  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 115624   | 5.216  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.17  | 83   | 183286   | 5.434  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 120936   | 5.330  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.55  | 83   | 145482   | 5.155  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 148377   | 5.054  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 702435   | 54.619 | ug/L  | 99       |
| 42) Toluene                    | 7.43  | 91   | 494486   | 5.552  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 117056   | 5.133  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 76754    | 5.099  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 96633    | 5.445  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.19  | 43   | 498871   | 56.955 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 92208    | 5.320  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 70020    | 5.267  | ug/L  | 95       |
| 51) Chlorobenzene              | 8.92  | 112  | 298756   | 5.294  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.05  | 91   | 519721   | 5.522  | ug/L  | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 198846   | 5.763  | ug/L  | 97       |
| 54) o-xylene                   | 9.59  | 106  | 186380   | 5.533  | ug/L  | 97       |
| 55) Styrene                    | 9.60  | 104  | 331825   | 5.868  | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.97  | 105  | 499390   | 5.630  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 87701    | 4.953  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 64861    | 5.146  | ug/L  | 100      |
| 61) Bromoform                  | 9.77  | 173  | 49155    | 4.928  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 235274   | 5.241  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 236643   | 5.261  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 219579   | 5.188  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 12511    | 4.391  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 174937   | 5.223  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 130416   | 5.311  | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 180389   | 5.076  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 127106   | 5.388  | ug/L  | 99       |

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

