

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV083019\  
 Data File : VV012445.D  
 Acq On : 30 Aug 2019 09:06  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

Quant Time: Aug 31 00:05:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR082919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 30 06:44:27 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 237935   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 227377   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 111645   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 99686    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.00%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 74205    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 167106   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.00%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 207480   | 48.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.00%  |
| 24) Chloroform-d               | 4.40   | 84    | 173687   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 84343    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.20%  |
| 32) Benzene-d6                 | 5.10   | 84    | 342809   | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.00% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 107524   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.80%  |
| 41) Toluene-d8                 | 7.36   | 98    | 322462   | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.40% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 39629    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 104.00% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 151487   | 50.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.20% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 73728    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 106012   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.60%  |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 164784 | 5.157 ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50  | 150157 | 4.774 ug/L  | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 141997 | 4.780 ug/L  | 100    |
| 6) Bromomethane                | 1.54 | 94  | 76290  | 4.729 ug/L  | 95     |
| 8) Chloroethane                | 1.60 | 64  | 76197  | 4.781 ug/L  | 97     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 187760 | 4.879 ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 95830  | 5.010 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 90153  | 4.999 ug/L  | 97     |
| 13) Acetone                    | 2.23 | 43  | 145333 | 46.018 ug/L | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 265263 | 4.813 ug/L  | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 32850  | 4.225 ug/L  | 94     |
| 16) Methylene chloride         | 2.53 | 84  | 90567  | 4.393 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 243080 | 4.905 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 113162 | 4.900 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 221413 | 4.898 ug/L  | 98     |
| 21) 2-Butanone                 | 4.05 | 43  | 287563 | 49.530 ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 118835 | 4.915 ug/L  | 99     |

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 Data File : VV012445.D  
 Acq On : 30 Aug 2019 09:06  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

Quant Time: Aug 31 00:05:55 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR082919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 30 06:44:27 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 50610    | 4.820  | ug/L  | 95       |
| 25) Chloroform                 | 4.42  | 83   | 220932   | 4.665  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 130748   | 4.923  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane      | 4.65  | 97   | 185994   | 5.050  | ug/L  | 98       |
| 30) Cyclohexane                | 4.72  | 56   | 197908   | 5.331  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 161776   | 4.993  | ug/L  | 100      |
| 33) Benzene                    | 5.14  | 78   | 481096   | 5.111  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 120930   | 5.043  | ug/L  | 100      |
| 35) Methylcyclohexane          | 6.17  | 83   | 200160   | 5.485  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 124087   | 5.055  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.55  | 83   | 150685   | 4.936  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 166343   | 5.237  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 733673   | 52.735 | ug/L  | 100      |
| 42) Toluene                    | 7.43  | 91   | 511913   | 5.313  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 128293   | 5.200  | ug/L  | 94       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 78560    | 4.825  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 100057   | 5.212  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.19  | 43   | 527935   | 55.716 | ug/L  | 97       |
| 49) Dibromochloromethane       | 8.29  | 129  | 96898    | 5.168  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 71851    | 4.996  | ug/L  | 99       |
| 51) Chlorobenzene              | 8.92  | 112  | 310723   | 5.089  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.05  | 91   | 546954   | 5.372  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.18  | 106  | 207482   | 5.559  | ug/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 194443   | 5.336  | ug/L  | 97       |
| 55) Styrene                    | 9.60  | 104  | 340688   | 5.569  | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.97  | 105  | 529046   | 5.513  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 92711    | 4.840  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 67885    | 4.979  | ug/L  | 99       |
| 61) Bromoform                  | 9.77  | 173  | 51188    | 4.931  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 246007   | 5.265  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 239830   | 5.124  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 223108   | 5.065  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 14323    | 4.830  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 185829   | 5.331  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 137346   | 5.374  | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 185111   | 5.005  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 129549   | 5.277  | ug/L  | 100      |

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

