

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV091619\  
 Data File : VV012862.D  
 Acq On : 17 Sep 2019 03:33  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 17 09:16:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091619WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Sep 17 07:22:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 414024   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 415170   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 203472   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 123972   | 4.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 96266    | 4.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 207201   | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 87.20%  |
| 20) 2-Butanone-d5              | 4.00   | 46    | 236641m  | 59.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 119.42% |
| 24) Chloroform-d               | 4.40   | 84    | 208982   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 98735    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.20%  |
| 32) Benzene-d6                 | 5.09   | 84    | 404211   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 124340   | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.00%  |
| 41) Toluene-d8                 | 7.36   | 98    | 385424   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 39978    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.60%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 134398   | 53.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 107.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 77396    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 130744   | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.60%  |

## Target Compounds

|                                |      |     |         |             | Qvalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 148457  | 4.749 ug/L  | 100    |
| 3) Chloromethane               | 1.25 | 50  | 140621  | 4.631 ug/L  | 95     |
| 5) Vinyl chloride              | 1.32 | 62  | 158035  | 4.641 ug/L  | 99     |
| 6) Bromomethane                | 1.53 | 94  | 81436   | 4.652 ug/L  | 98     |
| 8) Chloroethane                | 1.60 | 64  | 85010   | 4.627 ug/L  | 97     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 196857  | 4.728 ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 113874  | 4.625 ug/L  | 97     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 107622  | 4.759 ug/L  | 97     |
| 13) Acetone                    | 2.29 | 43  | 170149m | 55.403 ug/L |        |
| 14) Carbon disulfide           | 2.31 | 76  | 221002  | 4.538 ug/L  | 99     |
| 15) Methyl Acetate             | 2.48 | 43  | 64859   | 7.306 ug/L  | 90     |
| 16) Methylene chloride         | 2.53 | 84  | 124435  | 4.625 ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 312362  | 5.286 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 115298  | 4.670 ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 249566  | 4.905 ug/L  | 98     |
| 21) 2-Butanone                 | 4.07 | 43  | 394051  | 70.335 ug/L | 91     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 133065  | 4.883 ug/L  | 97     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.29  | 128  | 61327    | 5.183  | ug/L  | 99       |
| 25) Chloroform                 | 4.42  | 83   | 265950   | 4.681  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 154777   | 5.261  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane      | 4.65  | 97   | 202210   | 4.743  | ug/L  | 99       |
| 30) Cyclohexane                | 4.72  | 56   | 172339   | 4.774  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 171550   | 4.745  | ug/L  | 100      |
| 33) Benzene                    | 5.14  | 78   | 519391   | 4.951  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 146486   | 4.893  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.17  | 83   | 175602   | 4.774  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 140970   | 4.993  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.55  | 83   | 177689   | 4.865  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 169343   | 4.840  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 967006   | 61.954 | ug/L  | 98       |
| 42) Toluene                    | 7.43  | 91   | 559049   | 5.212  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 135983   | 4.887  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 102232   | 5.088  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.02  | 164  | 105736   | 4.822  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.19  | 43   | 733857   | 61.677 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 117866   | 5.129  | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 86403    | 5.165  | ug/L  | 98       |
| 51) Chlorobenzene              | 8.92  | 112  | 363996   | 4.912  | ug/L  | 97       |
| 52) Ethylbenzene               | 9.05  | 91   | 581548   | 5.083  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.18  | 106  | 221463   | 5.211  | ug/L  | 98       |
| 54) o-xylene                   | 9.59  | 106  | 216415   | 5.237  | ug/L  | 98       |
| 55) Styrene                    | 9.60  | 104  | 384885   | 5.490  | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.97  | 105  | 577125   | 5.208  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 99598    | 5.315  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 88956    | 5.319  | ug/L  | 99       |
| 61) Bromoform                  | 9.77  | 173  | 63860    | 5.037  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 297157   | 5.106  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 296283   | 4.921  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 284357   | 5.044  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 13783    | 5.100  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 211994   | 4.733  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 167716   | 4.994  | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 256910   | 5.350  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 172627   | 5.294  | ug/L  | 99       |

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

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