

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082018\  
 Data File : VV007097.D  
 Acq On : 21 Aug 2018 03:05  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00567

Quant Time: Aug 21 05:51:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Aug 21 05:25:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 249021   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 246498   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 113337   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 75629    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.00%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 70530    | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.40% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 156407   | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 103.60% |
| 20) 2-Butanone-d5              | 3.97   | 46    | 280141   | 60.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 121.20% |
| 24) Chloroform-d               | 4.40   | 84    | 188722   | 5.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 115.80% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 94175    | 5.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 114.40% |
| 32) Benzene-d6                 | 5.10   | 84    | 350635   | 5.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.80% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 119758   | 5.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 110.60% |
| 41) Toluene-d8                 | 7.36   | 98    | 316996   | 5.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 117.60% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 37715    | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.20% |
| 46) 2-Hexanone-d5              | 8.15   | 63    | 143528   | 46.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.20%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 97155    | 5.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 115.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 108522   | 5.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 110.00% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Ovalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 115033   | 4.74  | ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50   | 122458   | 5.25  | ug/L  | 97     |
| 5) Vinyl chloride              | 1.32 | 62   | 119023   | 4.93  | ug/L  | 99     |
| 6) Bromomethane                | 1.54 | 94   | 35484    | 6.78  | ug/L  | 97     |
| 8) Chloroethane                | 1.60 | 64   | 70811    | 4.84  | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 158693   | 5.17  | ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 96324    | 5.23  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 93743    | 5.24  | ug/L  | 96     |
| 13) Acetone                    | 2.21 | 43   | 145002   | 60.92 | ug/L  | 100    |
| 14) Carbon disulfide           | 2.32 | 76   | 263855   | 4.47  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.47 | 43   | 36617    | 5.47  | ug/L  | 98     |
| 16) Methylene chloride         | 2.54 | 84   | 101180   | 4.69  | ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.82 | 73   | 235326   | 5.49  | ug/L  | 97     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96   | 98811    | 5.16  | ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 184584   | 5.34  | ug/L  | 99     |
| 21) 2-Butanone                 | 4.06 | 43   | 298269   | 57.71 | ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96   | 110397   | 5.08  | ug/L  | 93     |

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| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 50249    | 5.67  | ug/L   | 88       |
| 25) Chloroform                  | 4.43  | 83   | 200908   | 5.31  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 122872   | 5.21  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 171669   | 5.22  | ug/L   | 99       |
| 30) Cyclohexane                 | 4.73  | 56   | 150201   | 4.39  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 4.88  | 117  | 141264   | 5.12  | ug/L   | 98       |
| 33) Benzene                     | 5.15  | 78   | 434995   | 5.09  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 104674   | 5.11  | ug/L   | 97       |
| 35) Methylcyclohexane           | 6.18  | 83   | 151081   | 4.60  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 116673   | 4.99  | ug/L   | 98       |
| 38) Bromodichloromethane        | 6.56  | 83   | 138243   | 5.20  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 130156   | 4.61  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 660679   | 52.32 | ug/L   | 96       |
| 42) Toluene                     | 7.44  | 91   | 441336   | 5.38  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 111269   | 4.80  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 82752    | 5.44  | ug/L   | 97       |
| 47) Tetrachloroethene           | 8.02  | 164  | 87383    | 5.26  | ug/L   | 95       |
| 48) 2-Hexanone                  | 8.20  | 43   | 525679   | 59.03 | ug/L   | 94       |
| 49) Dibromochloromethane        | 8.30  | 129  | 89457    | 5.61  | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 71722    | 5.58  | ug/L # | 97       |
| 51) Chlorobenzene               | 8.93  | 112  | 272614   | 5.21  | ug/L   | 99       |
| 52) Ethylbenzene                | 9.06  | 91   | 411916   | 5.03  | ug/L   | 100      |
| 53) m,p-xylene                  | 9.19  | 106  | 156712   | 5.13  | ug/L   | 98       |
| 54) o-xylene                    | 9.59  | 106  | 148090   | 5.12  | ug/L   | 99       |
| 55) Styrene                     | 9.61  | 104  | 251335   | 5.15  | ug/L   | 99       |
| 56) Isopropylbenzene            | 9.98  | 105  | 391424   | 5.15  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 99679    | 5.39  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane      | 10.33 | 75   | 72126    | 5.51  | ug/L   | 97       |
| 61) Bromoform                   | 9.78  | 173  | 48903    | 5.70  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 192377   | 5.25  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 198829   | 5.29  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 193493   | 5.36  | ug/L   | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 11793    | 4.60  | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 141387   | 5.09  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 100001   | 4.91  | ug/L   | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 135837   | 4.64  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 98751    | 5.03  | ug/L   | 99       |

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

