

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081518\  
 Data File : VV007032.D  
 Acq On : 16 Aug 2018 01:00  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00588

Quant Time: Aug 16 04:56:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Aug 16 02:48:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 225513   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 216978   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 96936    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 55707    | 3.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 76.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 53161    | 4.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 118053   | 4.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 86.40%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 264558   | 63.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 126.40% |
| 24) Chloroform-d               | 4.41   | 84    | 152101   | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.00% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 79605    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 106.80% |
| 32) Benzene-d6                 | 5.10   | 84    | 270225   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 100403   | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 105.40% |
| 41) Toluene-d8                 | 7.36   | 98    | 232713   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 32225    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.20%  |
| 46) 2-Hexanone-d5              | 8.15   | 63    | 153156   | 56.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 112.98% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 86110    | 5.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 116.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 86423    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.40% |

## Target Compounds

|                                |      |     |        |       |      | Ovalue |
|--------------------------------|------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 110009 | 5.01  | ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 104049 | 4.92  | ug/L | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 108884 | 4.99  | ug/L | 99     |
| 6) Bromomethane                | 1.53 | 94  | 27855  | 5.88  | ug/L | 98     |
| 8) Chloroethane                | 1.60 | 64  | 65851  | 4.97  | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 143567 | 5.16  | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 86879  | 5.21  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 83549  | 5.16  | ug/L | 92     |
| 13) Acetone                    | 2.21 | 43  | 128595 | 59.66 | ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 256996 | 4.81  | ug/L | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 34831  | 5.74  | ug/L | 97     |
| 16) Methylene chloride         | 2.54 | 84  | 91025  | 4.66  | ug/L | 96     |
| 17) Methyl tert-butyl Ether    | 2.82 | 73  | 210592 | 5.42  | ug/L | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 91498  | 5.28  | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 159911 | 5.11  | ug/L | 98     |
| 21) 2-Butanone                 | 4.05 | 43  | 288883 | 61.73 | ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 99715  | 5.07  | ug/L | 97     |

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| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane          | 4.31  | 128  | 44775    | 5.58  | ug/L   | 92       |
| 25) Chloroform                  | 4.43  | 83   | 181973   | 5.31  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 112806   | 5.28  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 151589   | 5.24  | ug/L   | 99       |
| 30) Cyclohexane                 | 4.73  | 56   | 146743   | 4.87  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 4.88  | 117  | 130664   | 5.39  | ug/L   | 99       |
| 33) Benzene                     | 5.15  | 78   | 400735   | 5.33  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 94175    | 5.22  | ug/L   | 95       |
| 35) Methylcyclohexane           | 6.18  | 83   | 141968   | 4.91  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 108174   | 5.26  | ug/L   | 99       |
| 38) Bromodichloromethane        | 6.56  | 83   | 124847   | 5.34  | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 122410   | 4.92  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 611409   | 55.01 | ug/L   | 98       |
| 42) Toluene                     | 7.44  | 91   | 401580   | 5.56  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 106637   | 5.23  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 72634    | 5.43  | ug/L   | 94       |
| 47) Tetrachloroethene           | 8.02  | 164  | 76902    | 5.26  | ug/L   | 98       |
| 48) 2-Hexanone                  | 8.20  | 43   | 468925   | 59.82 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.30  | 129  | 80027    | 5.70  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 63578    | 5.62  | ug/L # | 93       |
| 51) Chlorobenzene               | 8.93  | 112  | 245572   | 5.33  | ug/L   | 100      |
| 52) Ethylbenzene                | 9.06  | 91   | 374471   | 5.19  | ug/L   | 98       |
| 53) m,p-xylene                  | 9.19  | 106  | 143334   | 5.33  | ug/L   | 97       |
| 54) o-xylene                    | 9.59  | 106  | 133120   | 5.23  | ug/L   | 100      |
| 55) Styrene                     | 9.61  | 104  | 235084   | 5.47  | ug/L   | 100      |
| 56) Isopropylbenzene            | 9.98  | 105  | 349383   | 5.23  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 91018    | 5.59  | ug/L   | 96       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 64509    | 5.60  | ug/L   | 100      |
| 61) Bromoform                   | 9.78  | 173  | 43368    | 5.91  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 168710   | 5.38  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 173721   | 5.40  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 170650   | 5.53  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 11027    | 5.03  | ug/L   | 91       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 125108   | 5.27  | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 91712    | 5.26  | ug/L   | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 125726   | 5.02  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 89595    | 5.33  | ug/L   | 98       |

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

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