

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072118\  
 Data File : VV006678.D  
 Acq On : 21 Jul 2018 10:51  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00573

Manual Integrations  
 APPROVED

apatel  
 7/26/2018 4:20:38 PM

Quant Time: Jul 22 23:03:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR071918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jul 21 00:42:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 223001   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 209089   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 99813    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 72138    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 57837    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 109.60% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 151403   | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 100.60% |
| 20) 2-Butanone-d5              | 3.94   | 46    | 144980   | 42.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 85.32%  |
| 24) Chloroform-d               | 4.40   | 84    | 138587   | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.20% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 63644    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.40% |
| 32) Benzene-d6                 | 5.10   | 84    | 283311   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 89425    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.60% |
| 41) Toluene-d8                 | 7.36   | 98    | 266322   | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.80% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 29048    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.20%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 143420   | 48.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.28%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 65165    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 91750    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.20% |

## Target Compounds

|                                |      |     |        |       |      | Ovalue |
|--------------------------------|------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 119987 | 5.66  | ug/L | 97     |
| 3) Chloromethane               | 1.26 | 50  | 96541  | 5.38  | ug/L | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 123254 | 5.32  | ug/L | 92     |
| 6) Bromomethane                | 1.52 | 94  | 26105m | 3.98  | ug/L |        |
| 8) Chloroethane                | 1.59 | 64  | 71301  | 5.36  | ug/L | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 157398 | 5.66  | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 99486  | 5.71  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 90983  | 5.51  | ug/L | 92     |
| 13) Acetone                    | 2.19 | 43  | 137377 | 52.70 | ug/L | 98     |
| 14) Carbon disulfide           | 2.32 | 76  | 284891 | 5.32  | ug/L | 100    |
| 15) Methyl Acetate             | 2.46 | 43  | 40223  | 5.26  | ug/L | 98     |
| 16) Methylene chloride         | 2.54 | 84  | 101027 | 4.86  | ug/L | 99     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 221280 | 5.43  | ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 99880  | 5.49  | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 184506 | 5.74  | ug/L | 99     |
| 21) 2-Butanone                 | 4.03 | 43  | 225990 | 51.76 | ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 105757 | 5.55  | ug/L | 98     |

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jul 21 00:42:56 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 42907    | 5.53  | ug/L  | 100      |
| 25) Chloroform                  | 4.43  | 83   | 177994   | 5.75  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 101827   | 5.63  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 147032   | 5.63  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 154132   | 5.28  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.88  | 117  | 125688   | 5.62  | ug/L  | 100      |
| 33) Benzene                     | 5.15  | 78   | 406046   | 5.52  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 99111    | 5.33  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.18  | 83   | 168700   | 5.43  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 104305   | 5.56  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 115887   | 5.56  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 134431   | 5.45  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 530293   | 52.28 | ug/L  | 100      |
| 42) Toluene                     | 7.43  | 91   | 425371   | 5.60  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 103254   | 5.38  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 68221    | 5.40  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.02  | 164  | 82826    | 5.54  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.19  | 43   | 370911   | 52.31 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.30  | 129  | 74707    | 5.59  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 60365    | 5.32  | ug/L  | 100      |
| 51) Chlorobenzene               | 8.93  | 112  | 271205   | 5.49  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.06  | 91   | 450602   | 5.52  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.19  | 106  | 175651   | 5.66  | ug/L  | 100      |
| 54) o-xylene                    | 9.59  | 106  | 169500   | 5.60  | ug/L  | 97       |
| 55) Styrene                     | 9.61  | 104  | 292288   | 5.77  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.98  | 105  | 447709   | 5.64  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 82026    | 5.42  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 58156    | 5.26  | ug/L  | 100      |
| 61) Bromoform                   | 9.78  | 173  | 37175    | 5.39  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 198536   | 5.46  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 201788   | 5.46  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 193227   | 5.54  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 10515    | 5.08  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 158119   | 5.63  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 119859   | 5.38  | ug/L  | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 192345   | 4.98  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 112704   | 5.37  | ug/L  | 99       |

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

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