

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070918\  
 Data File : VV006559.D  
 Acq On : 09 Jul 2018 14:55  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00567

Manual Integrations  
 APPROVED

apatel  
 7/10/2018 8:13:07 PM

Quant Time: Jul 09 22:49:29 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR070718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jul 09 03:00:48 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 361086   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 328281   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 159580   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 84467    | 4.30     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.00% |
| 7) Chloroethane-d5             | 1.58   | 69    | 68311    | 3.99     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 79.80% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 160388   | 4.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 87.80% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 204520   | 41.01    | ug/L | -0.02  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 82.02% |
| 24) Chloroform-d               | 4.41   | 84    | 174814   | 4.53     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.60% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 78571    | 4.38     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.60% |
| 32) Benzene-d6                 | 5.10   | 84    | 345088   | 4.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 108411   | 4.46     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.20% |
| 41) Toluene-d8                 | 7.36   | 98    | 313189   | 4.68     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.60% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 39395    | 4.78     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.60% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 174595   | 41.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 83.94% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 81403    | 4.26     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 85.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 123608   | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.00% |

## Target Compounds

|                                |      |     |         |       | Ovalue |
|--------------------------------|------|-----|---------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 137366m | 4.85  | ug/L   |
| 3) Chloromethane               | 1.27 | 50  | 156573  | 4.52  | ug/L   |
| 5) Vinyl chloride              | 1.32 | 62  | 147508  | 4.59  | ug/L   |
| 6) Bromomethane                | 1.54 | 94  | 61242   | 4.11  | ug/L   |
| 8) Chloroethane                | 1.60 | 64  | 81716   | 4.19  | ug/L   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 172318  | 4.76  | ug/L   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 109945  | 4.92  | ug/L   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 103446  | 4.58  | ug/L   |
| 13) Acetone                    | 2.20 | 43  | 126316  | 40.05 | ug/L   |
| 14) Carbon disulfide           | 2.32 | 76  | 328572  | 4.86  | ug/L   |
| 15) Methyl Acetate             | 2.47 | 43  | 37148   | 4.00  | ug/L   |
| 16) Methylene chloride         | 2.54 | 84  | 111413  | 4.37  | ug/L   |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 232792  | 4.35  | ug/L   |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 114505  | 4.64  | ug/L   |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 200621  | 4.69  | ug/L   |
| 21) 2-Butanone                 | 4.04 | 43  | 216373  | 41.82 | ug/L   |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 123111  | 4.65  | ug/L   |

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 Sample : VSTDCCC005  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00567

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Quant Time: Jul 09 22:49:29 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR070718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jul 09 03:00:48 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 48718    | 4.49  | ug/L  | 98       |
| 25) Chloroform                  | 4.43  | 83   | 195342   | 4.59  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 106550   | 4.41  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 163541   | 4.75  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.73  | 56   | 182849   | 5.00  | ug/L  | 100      |
| 31) Carbon tetrachloride        | 4.88  | 117  | 141635   | 4.92  | ug/L  | 98       |
| 33) Benzene                     | 5.15  | 78   | 461378   | 4.71  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 118785   | 4.73  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.18  | 83   | 207259   | 5.12  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 109320   | 4.56  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.56  | 83   | 126705   | 4.69  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 154047   | 4.79  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 514786   | 42.38 | ug/L  | 100      |
| 42) Toluene                     | 7.44  | 91   | 489736   | 4.81  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 119994   | 4.83  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 73468    | 4.38  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.02  | 164  | 101048   | 4.89  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.19  | 43   | 367627   | 42.68 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.30  | 129  | 81035    | 4.63  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 67585    | 4.43  | ug/L  | 100      |
| 51) Chlorobenzene               | 8.93  | 112  | 314825   | 4.72  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.06  | 91   | 532253   | 4.92  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.19  | 106  | 206090   | 4.94  | ug/L  | 99       |
| 54) o-xylene                    | 9.59  | 106  | 200410   | 4.91  | ug/L  | 99       |
| 55) Styrene                     | 9.61  | 104  | 336460   | 4.90  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.98  | 105  | 527637   | 5.04  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 84964    | 4.29  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 60482    | 4.24  | ug/L  | 99       |
| 61) Bromoform                   | 9.78  | 173  | 41231    | 4.51  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 241412   | 4.80  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 243179   | 4.75  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 225247   | 4.63  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 10963    | 4.22  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 192122   | 4.82  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 151323   | 4.77  | ug/L  | 100      |
| 69) Naphthalene                 | 13.56 | 128  | 237943   | 4.42  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 139547   | 4.69  | ug/L  | 99       |

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

