

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030520\  
 Data File : VV014750.D  
 Acq On : 05 Mar 2020 10:07  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00538

Manual Integrations  
 APPROVED

apatel  
 3/9/2020 2:42:13 PM

Quant Time: Mar 06 03:04:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR022820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Mar 05 15:29:01 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 254017   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 242390   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 124191   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 71484    | 3.59     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 71.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 61797    | 3.97     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 79.40% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 135889   | 4.02     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 80.40% |
| 20) 2-Butanone-d5              | 3.98   | 46    | 177520   | 43.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 86.38% |
| 24) Chloroform-d               | 4.39   | 84    | 161896   | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.80% |
| 26) 1,2-Dichloroethane-d4      | 5.07   | 65    | 82996    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80% |
| 32) Benzene-d6                 | 5.09   | 84    | 319967   | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 97592    | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 88.80% |
| 41) Toluene-d8                 | 7.35   | 98    | 286877   | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.40% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 37684    | 4.43     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.60% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 152401   | 44.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 88.60% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 74866    | 4.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 108375   | 4.70     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.00% |

## Target Compounds

|                                |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 124033  | 4.446  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 105518  | 4.107  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 100984  | 4.276  | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 58906   | 4.426  | ug/L 93  |
| 8) Chloroethane                | 1.60 | 64  | 54481   | 4.118  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 148886  | 4.628  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 80544   | 4.784  | ug/L 96  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 77199   | 4.823  | ug/L 87  |
| 13) Acetone                    | 2.26 | 43  | 103315m | 37.348 | ug/L     |
| 14) Carbon disulfide           | 2.31 | 76  | 238311  | 4.366  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 32408   | 4.616  | ug/L 95  |
| 16) Methylene chloride         | 2.53 | 84  | 90836   | 4.537  | ug/L 94  |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 199712  | 4.586  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 90978   | 4.702  | ug/L 95  |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 173948  | 4.595  | ug/L 99  |
| 21) 2-Butanone                 | 4.06 | 43  | 205814  | 43.716 | ug/L 89  |
| 22) cis-1,2-Dichloroethene     | 3.95 | 96  | 96092   | 4.646  | ug/L 98  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030520\  
 Data File : VV014750.D  
 Acq On : 05 Mar 2020 10:07  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00538

Manual Integrations  
 APPROVED

apatel  
 3/9/2020 2:42:13 PM

Quant Time: Mar 06 03:04:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR022820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Mar 05 15:29:01 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.29  | 128  | 39608    | 4.771  | ug/L  | 91       |
| 25) Chloroform                  | 4.42  | 83   | 177877   | 4.788  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.17  | 62   | 103902   | 4.567  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 153134   | 4.792  | ug/L  | 97       |
| 30) Cyclohexane                 | 4.71  | 56   | 160674   | 4.467  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 130948   | 4.757  | ug/L  | 99       |
| 33) Benzene                     | 5.14  | 78   | 377183   | 4.739  | ug/L  | 100      |
| 34) Trichloroethene             | 5.95  | 95   | 98458    | 4.723  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.17  | 83   | 161621   | 4.558  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.21  | 63   | 94055    | 4.626  | ug/L  | 98       |
| 38) Bromodichloromethane        | 6.55  | 83   | 119245   | 4.808  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.06  | 75   | 139312   | 4.730  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 547783   | 44.995 | ug/L  | 96       |
| 42) Toluene                     | 7.42  | 91   | 408302   | 4.844  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 105605   | 4.621  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 61623    | 4.747  | ug/L  | 96       |
| 47) Tetrachloroethene           | 8.01  | 164  | 81171    | 4.869  | ug/L  | 95       |
| 48) 2-Hexanone                  | 8.19  | 43   | 403862   | 46.559 | ug/L  | 97       |
| 49) Dibromochloromethane        | 8.28  | 129  | 73132    | 4.983  | ug/L  | 94       |
| 50) 1,2-Dibromoethane           | 8.39  | 107  | 58462    | 4.718  | ug/L  | 97       |
| 51) Chlorobenzene               | 8.92  | 112  | 256249   | 4.802  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 452627   | 4.736  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.17  | 106  | 169554   | 4.846  | ug/L  | 98       |
| 54) o-xylene                    | 9.58  | 106  | 165903   | 4.871  | ug/L  | 100      |
| 55) Styrene                     | 9.60  | 104  | 275478   | 4.814  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.97  | 105  | 446305   | 4.851  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 76597    | 4.719  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.31 | 75   | 55679    | 4.688  | ug/L  | 99       |
| 61) Bromoform                   | 9.77  | 173  | 40917    | 5.599  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 209812   | 4.942  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 208139   | 4.798  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.68 | 146  | 191700   | 4.887  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 12271    | 4.727  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene      | 12.68 | 180  | 167308   | 4.856  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.30 | 180  | 136046   | 4.598  | ug/L  | 99       |
| 69) Naphthalene                 | 13.54 | 128  | 213215   | 4.427  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 121947   | 4.618  | ug/L  | 99       |

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

