

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042220\  
 Data File : VV015623.D  
 Acq On : 22 Apr 2020 15:41  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00557

Quant Time: Apr 23 02:49:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 23 02:43:01 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 138813   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 132881   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 69214    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 35142    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 96.80%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 33231    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 77160    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.20%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 120688   | 51.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.62% |
| 24) Chloroform-d               | 4.38   | 84    | 83584    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 46256    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 32) Benzene-d6                 | 5.07   | 84    | 157455   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 49963    | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.60%  |
| 41) Toluene-d8                 | 7.34   | 98    | 150265   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.80%  |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 19779    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 101.00% |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 98517    | 51.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 103.10% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 36741    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 56247    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.60%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 60928  | 5.124  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 53305  | 5.182  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 55471  | 5.049  | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 25801  | 5.470  | ug/L 97  |
| 8) Chloroethane                | 1.59 | 64  | 33380  | 4.626  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 78237  | 5.075  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 44537  | 5.106  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 41326  | 5.115  | ug/L 95  |
| 13) Acetone                    | 2.22 | 43  | 80718  | 49.905 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 119264 | 5.222  | ug/L 99  |
| 15) Methyl Acetate             | 2.46 | 43  | 19889  | 5.171  | ug/L 96  |
| 16) Methylene chloride         | 2.52 | 84  | 49599  | 4.973  | ug/L 97  |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 117114 | 5.164  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 47092  | 5.206  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 90621  | 5.102  | ug/L 99  |
| 21) 2-Butanone                 | 4.02 | 43  | 128909 | 51.671 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 51433  | 5.142  | ug/L 97  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042220\  
 Data File : VV015623.D  
 Acq On : 22 Apr 2020 15:41  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00557

Quant Time: Apr 23 02:49:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 23 02:43:01 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 20905    | 5.117  | ug/L  | 97       |
| 25) Chloroform                  | 4.40  | 83   | 95458    | 5.062  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 61416    | 4.957  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 4.64  | 97   | 85137    | 5.052  | ug/L  | 100      |
| 30) Cyclohexane                 | 4.70  | 56   | 82437    | 5.120  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 70869    | 5.078  | ug/L  | 97       |
| 33) Benzene                     | 5.13  | 78   | 193089   | 5.086  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 53126    | 5.067  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 82135    | 5.104  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 50752    | 5.259  | ug/L  | 98       |
| 38) Bromodichloromethane        | 6.53  | 83   | 62085    | 5.067  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 70621    | 5.250  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 319513   | 51.016 | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 207912   | 5.125  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 59939    | 5.303  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 33620    | 5.112  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.00  | 164  | 38611    | 5.115  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.16  | 43   | 234412   | 52.486 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.27  | 129  | 35610    | 5.231  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 30823    | 5.067  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 133700   | 5.031  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 240290   | 5.119  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.16  | 106  | 90273    | 5.250  | ug/L  | 100      |
| 54) o-xylene                    | 9.57  | 106  | 85788    | 5.156  | ug/L  | 98       |
| 55) Styrene                     | 9.58  | 104  | 146622   | 5.193  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 238993   | 5.120  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 39363    | 5.125  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 30995    | 5.031  | ug/L  | 97       |
| 61) Bromoform                   | 9.75  | 173  | 15697    | 5.494  | ug/L  | 96       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 111048   | 5.069  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 109775   | 4.969  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 98544    | 4.974  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 6644     | 5.147  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 80960    | 5.001  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 73026    | 4.901  | ug/L  | 98       |
| 69) Naphthalene                 | 13.53 | 128  | 131012   | 4.913  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 64867    | 4.933  | ug/L  | 99       |

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

