

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050420\  
 Data File : VV015891.D  
 Acq On : 04 May 2020 17:39  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 05 03:54:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue May 05 01:28:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 123796   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 119680   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 60801    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 30826    | 4.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 95.40% |
| 7) Chloroethane-d5             | 1.57   | 69    | 29607    | 4.75     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.00% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 67611    | 4.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 95.40% |
| 20) 2-Butanone-d5              | 3.98   | 46    | 101675   | 48.95    | ug/L | 0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.90% |
| 24) Chloroform-d               | 4.38   | 84    | 72334    | 4.80     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 40611    | 4.81     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.20% |
| 32) Benzene-d6                 | 5.08   | 84    | 135299   | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.80% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 43168    | 4.73     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.60% |
| 41) Toluene-d8                 | 7.34   | 98    | 126795   | 4.67     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40% |
| 43) trans-1,3-Dichloropropene- | 7.65   | 79    | 16367    | 4.64     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.80% |
| 46) 2-Hexanone-d5              | 8.12   | 63    | 82653    | 48.02    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.04% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 33124    | 4.87     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 48280    | 4.67     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.40% |

## Target Compounds

|                                |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 47627   | 4.492  | ug/L 99  |
| 3) Chloromethane               | 1.24 | 50  | 45559   | 4.967  | ug/L 97  |
| 5) Vinyl chloride              | 1.32 | 62  | 46467   | 4.743  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 24464   | 5.816  | ug/L 95  |
| 8) Chloroethane                | 1.59 | 64  | 30400   | 4.724  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 67196   | 4.887  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 37505   | 4.822  | ug/L 96  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 35328   | 4.903  | ug/L 96  |
| 13) Acetone                    | 2.28 | 43  | 67192m  | 46.582 | ug/L     |
| 14) Carbon disulfide           | 2.30 | 76  | 91312   | 4.483  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 20372   | 5.939  | ug/L 100 |
| 16) Methylene chloride         | 2.52 | 84  | 52475   | 5.899  | ug/L 97  |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 108087  | 5.344  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 40052   | 4.965  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 83808   | 5.291  | ug/L 98  |
| 21) 2-Butanone                 | 4.05 | 43  | 112477m | 50.553 | ug/L     |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 45390   | 5.089  | ug/L 97  |

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 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
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Quant Time: May 05 03:54:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue May 05 01:28:45 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 18834    | 5.169  | ug/L  | 99       |
| 25) Chloroform                  | 4.40  | 83   | 90015    | 5.353  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 57003    | 5.159  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.64  | 97   | 76211    | 5.021  | ug/L  | 100      |
| 30) Cyclohexane                 | 4.70  | 56   | 68891    | 4.751  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 62583    | 4.979  | ug/L  | 97       |
| 33) Benzene                     | 5.13  | 78   | 171098   | 5.004  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 46435    | 4.917  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.15  | 83   | 68422    | 4.721  | ug/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 44664    | 5.139  | ug/L  | 98       |
| 38) Bromodichloromethane        | 6.53  | 83   | 56384    | 5.109  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 61789    | 5.100  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 300538   | 53.280 | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 185017   | 5.064  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.68  | 75   | 52800    | 5.186  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 31707    | 5.352  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.00  | 164  | 32022    | 4.710  | ug/L  | 95       |
| 48) 2-Hexanone                  | 8.17  | 43   | 212727   | 52.884 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 33776    | 5.509  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.38  | 107  | 28803    | 5.258  | ug/L  | 96       |
| 51) Chlorobenzene               | 8.90  | 112  | 119360   | 4.987  | ug/L  | 97       |
| 52) Ethylbenzene                | 9.04  | 91   | 210761   | 4.985  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.16  | 106  | 79017    | 5.102  | ug/L  | 100      |
| 54) o-xylene                    | 9.57  | 106  | 76448    | 5.102  | ug/L  | 98       |
| 55) Styrene                     | 9.58  | 104  | 129542   | 5.094  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 212129   | 5.046  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.27 | 83   | 36594    | 5.290  | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 28652    | 5.163  | ug/L  | 100      |
| 61) Bromoform                   | 9.76  | 173  | 15305    | 6.098  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 95388    | 4.957  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 95502    | 4.921  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 87232    | 5.012  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 6256     | 5.517  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 68405    | 4.810  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 59979    | 4.583  | ug/L  | 99       |
| 69) Naphthalene                 | 13.53 | 128  | 108875   | 4.648  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 54783    | 4.743  | ug/L  | 98       |

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

