

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV051220\  
 Data File : VV016005.D  
 Acq On : 12 May 2020 10:37  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 13 06:39:36 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue May 12 11:35:23 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 141793   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 138255   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 70451    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 30487    | 3.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 79.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 30965    | 4.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 76216    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.20%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 119835   | 54.61    | ug/L | 0.03    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.22% |
| 24) Chloroform-d               | 4.38   | 84    | 84927    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.00% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 48653    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.00% |
| 32) Benzene-d6                 | 5.07   | 84    | 160148   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 50979    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.60% |
| 41) Toluene-d8                 | 7.34   | 98    | 150960   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.00%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 18755    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.20%  |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 93354    | 53.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 107.84% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 37708    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 106.80% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 55247    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.60%  |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 56990  | 5.245 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 59345  | 5.395 ug/L   | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 55306  | 5.258 ug/L   | 99     |
| 6) Bromomethane                | 1.53 | 94  | 29733  | 4.981 ug/L   | 97     |
| 8) Chloroethane                | 1.59 | 64  | 35729  | 4.767 ug/L   | 95     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 78518  | 5.442 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 42483  | 5.213 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 41785  | 5.355 ug/L   | 85     |
| 13) Acetone                    | 2.27 | 43  | 78968m | 54.556 ug/L  |        |
| 14) Carbon disulfide           | 2.31 | 76  | 132158 | 5.130 ug/L   | 98     |
| 15) Methyl Acetate             | 2.47 | 43  | 21586  | 6.453 ug/L # | 64     |
| 16) Methylene chloride         | 2.52 | 84  | 49196  | 5.269 ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 110437 | 5.447 ug/L   | 100    |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 47595  | 5.519 ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 92521  | 5.570 ug/L   | 99     |
| 21) 2-Butanone                 | 4.05 | 43  | 124713 | 56.575 ug/L  | 95     |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 48434  | 5.365 ug/L   | 99     |

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 MSVOA\_V  
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Quant Time: May 13 06:39:36 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue May 12 11:35:23 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 23) Bromochloromethane         | 4.28  | 128  | 21145    | 5.488  | ug/L   | 97       |
| 25) Chloroform                 | 4.40  | 83   | 99441    | 5.436  | ug/L   | 100      |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 61556    | 5.477  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 84813    | 5.563  | ug/L   | 98       |
| 30) Cyclohexane                | 4.70  | 56   | 82752    | 5.416  | ug/L   | 97       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 71071    | 5.401  | ug/L   | 98       |
| 33) Benzene                    | 5.12  | 78   | 198464   | 5.706  | ug/L   | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 52128    | 5.251  | ug/L   | 95       |
| 35) Methylcyclohexane          | 6.15  | 83   | 78940    | 5.256  | ug/L   | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 50303    | 5.692  | ug/L   | 100      |
| 38) Bromodichloromethane       | 6.53  | 83   | 61935    | 5.519  | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 63666    | 5.097  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 314934   | 57.176 | ug/L   | 100      |
| 42) Toluene                    | 7.41  | 91   | 206720   | 5.607  | ug/L   | 99       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 188598   | 5.572  | ug/L # | 100      |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 188621   | 5.577  | ug/L # | 100      |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 53848    | 5.104  | ug/L   | 99       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 33904    | 5.745  | ug/L   | 99       |
| 49) Tetrachloroethene          | 8.00  | 164  | 38234    | 5.519  | ug/L   | 99       |
| 50) 2-Hexanone                 | 8.16  | 43   | 224691   | 57.684 | ug/L   | 99       |
| 51) Dibromochloromethane       | 8.27  | 129  | 37159    | 5.604  | ug/L   | 99       |
| 52) 1,2-Dibromoethane          | 8.37  | 107  | 30888    | 5.643  | ug/L   | 96       |
| 53) Chlorobenzene              | 8.90  | 112  | 132342   | 5.581  | ug/L   | 99       |
| 54) Ethylbenzene               | 9.03  | 91   | 230879   | 5.507  | ug/L   | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 87416    | 5.631  | ug/L   | 98       |
| 56) o-xylene                   | 9.56  | 106  | 84151    | 5.670  | ug/L   | 97       |
| 57) Styrene                    | 9.58  | 104  | 143983   | 5.800  | ug/L   | 99       |
| 58) Isopropylbenzene           | 9.95  | 105  | 226911   | 5.565  | ug/L   | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 36728    | 5.824  | ug/L   | 99       |
| 62) Bromoform                  | 9.75  | 173  | 16549    | 5.113  | ug/L   | 99       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 105022   | 5.533  | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene        | 11.30 | 146  | 104732   | 5.492  | ug/L   | 100      |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 96135    | 5.596  | ug/L   | 97       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 6189     | 5.520  | ug/L   | 95       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 73233    | 5.277  | ug/L   | 98       |
| 69) 1,2,4-trichlorobenzene     | 13.29 | 180  | 62998    | 5.283  | ug/L   | 99       |
| 70) Naphthalene                | 13.53 | 128  | 102900   | 5.426  | ug/L   | 100      |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 56989    | 5.418  | ug/L   | 99       |
| -----                          |       |      |          |        |        |          |

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

