

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120922\  
 Data File : VU052340.D  
 Acq On : 10 Dec 2022 07:07  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005102

Quant Time: Dec 10 07:25:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Dec 08 04:19:43 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.247  | 114   | 240440   | 5.000    | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 240831   | 5.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 127006   | 5.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.600  | 65    | 76976    | 3.291    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 65.800%   |
| 7) Chloroethane-d5            | 1.916  | 69    | 71937    | 3.960    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 79.200%   |
| 11) 1,1-Dichloroethene-d2     | 2.568  | 65    | 31710    | 3.783    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 75.600%   |
| 20) 2-Butanone-d5             | 4.642  | 46    | 281088   | 66.305   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 132.620%# |
| 24) Chloroform-d              | 5.060  | 84    | 164986   | 4.801    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.000%   |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65    | 85153    | 4.906    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 98.200%   |
| 32) Benzene-d6                | 5.726  | 84    | 323159   | 4.520    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.400%   |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 107494   | 4.858    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 97.200%   |
| 41) Toluene-d8                | 7.896  | 98    | 288950   | 4.467    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 89.400%   |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 35856    | 4.447    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 89.000%   |
| 46) 2-Hexanone-d5             | 8.632  | 63    | 213860   | 62.585   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 125.160%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 103953   | 5.419    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 108.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.188 | 152   | 111542   | 4.587    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 91.800%   |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 95745    | 4.591    | ug/L   | 98        |
| 3) Chloromethane              | 1.520  | 50    | 126023   | 4.631    | ug/L   | 99        |
| 5) Vinyl chloride             | 1.607  | 62    | 130014   | 4.972    | ug/L   | 98        |
| 6) Bromomethane               | 1.861  | 94    | 60704    | 4.524    | ug/L   | 98        |
| 8) Chloroethane               | 1.938  | 64    | 79870    | 4.912    | ug/L   | 100       |
| 9) Trichlorofluoromethane     | 2.141  | 101   | 138952   | 4.830    | ug/L   | 99        |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581  | 101   | 84147    | 4.784    | ug/L   | 98        |
| 12) 1,1-Dichloroethene        | 2.581  | 96    | 90718    | 5.201    | ug/L   | 88        |
| 13) Acetone                   | 2.665  | 43    | 182873   | 63.525   | ug/L   | 100       |
| 14) Carbon disulfide          | 2.797  | 76    | 291170   | 4.822    | ug/L   | 99        |
| 15) Methyl Acetate            | 2.960  | 43    | 46926    | 6.285    | ug/L   | 99        |
| 16) Methylene chloride        | 3.047  | 84    | 122196   | 5.178    | ug/L   | 100       |
| 17) Methyl tert-butyl Ether   | 3.362  | 73    | 222667   | 5.703    | ug/L   | 100       |
| 18) trans-1,2-Dichloroethene  | 3.353  | 96    | 98633    | 5.275    | ug/L   | 94        |
| 19) 1,1-Dichloroethane        | 3.867  | 63    | 186318   | 5.529    | ug/L   | 100       |
| 21) 2-Butanone                | 4.719  | 43    | 302638   | 65.591   | ug/L   | 97        |
| 22) cis-1,2-Dichloroethene    | 4.665  | 96    | 120883   | 6.160    | ug/L   | 91        |
| 23) Bromochloromethane        | 4.973  | 128   | 52760    | 5.620    | ug/L   | 96        |
| 25) Chloroform                | 5.086  | 83    | 187310   | 5.486    | ug/L   | 96        |

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 Sample : VSTDCCC005EC  
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 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005102

Quant Time: Dec 10 07:25:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Dec 08 04:19:43 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 117122   | 5.600  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane     | 5.314  | 97   | 140912   | 5.274  | ug/L  | 98       |
| 30) Cyclohexane               | 5.388  | 56   | 135642   | 5.228  | ug/L  | 96       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 114074   | 5.025  | ug/L  | 99       |
| 33) Benzene                   | 5.771  | 78   | 433105   | 5.526  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 102369   | 5.237  | ug/L  | 96       |
| 35) Methylcyclohexane         | 6.761  | 83   | 134588   | 4.786  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 114942   | 5.664  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.102  | 83   | 135025   | 5.458  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 7.603  | 75   | 129441   | 4.968  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 705342   | 66.540 | ug/L  | 100      |
| 42) Toluene                   | 7.967  | 91   | 461313   | 5.722  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 113296   | 5.078  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 89200    | 5.849  | ug/L  | 99       |
| 47) Tetrachloroethene         | 8.552  | 164  | 76232    | 5.088  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.684  | 43   | 541657   | 69.701 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.806  | 129  | 97567    | 5.712  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.918  | 107  | 82686    | 5.953  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.443  | 112  | 283763   | 5.521  | ug/L  | 98       |
| 52) Ethylbenzene              | 9.568  | 91   | 439387   | 5.606  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.690  | 106  | 173877   | 5.729  | ug/L  | 99       |
| 54) o-Xylene                  | 10.098 | 106  | 171733   | 5.904  | ug/L  | 94       |
| 55) Styrene                   | 10.111 | 104  | 297201   | 6.049  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 117178   | 6.152  | ug/L  | 97       |
| 59) Bromoform                 | 10.285 | 173  | 58752    | 5.616  | ug/L  | 96       |
| 60) Isopropylbenzene          | 10.481 | 105  | 424396   | 5.320  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.819 | 75   | 80530    | 5.540  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 330110   | 5.176  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 340458   | 5.378  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.741 | 146  | 223123   | 5.477  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 221250   | 5.446  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 215728   | 5.499  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 16845    | 5.296  | ug/L  | 91       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 157781   | 5.462  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 129947   | 5.908  | ug/L  | 99       |
| 71) Naphthalene               | 14.082 | 128  | 255396   | 6.185  | ug/L  | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 131501   | 6.076  | ug/L  | 98       |

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

