

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU071322\  
 Data File : VU049697.D  
 Acq On : 13 Jul 2022 10:22  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050161

Quant Time: Jul 14 05:04:53 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM071122WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 13 06:51:38 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 204615   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 198324   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 97869    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 72606    | 42.056   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 84.120%  |
| 7) Chloroethane-d5            | 1.903   | 69    | 56155    | 44.999   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 90.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 134401   | 44.073   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.140%  |
| 21) 2-Butanone-d5             | 4.623   | 46    | 150032   | 101.800  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 101.800% |
| 24) Chloroform-d              | 5.063   | 84    | 152121   | 49.749   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.500%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 101728   | 49.156   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 98.320%  |
| 32) Benzene-d6                | 5.726   | 84    | 278715   | 46.259   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.520%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 97261    | 47.993   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 95.980%  |
| 41) Toluene-d8                | 7.896   | 98    | 244211   | 46.544   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.080%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 41026    | 48.049   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 96.100%  |
| 47) 2-Hexanone-d5             | 8.632   | 63    | 89761    | 98.465   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 98.470%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 142091   | 50.110   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 100.220% |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 89219    | 48.350   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.700%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 106961   | 43.609   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 124818   | 46.368   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.604   | 62    | 108365   | 44.550   | ug/L   | 99       |
| 6) Bromomethane               | 1.842   | 94    | 51302    | 45.648   | ug/L   | 96       |
| 8) Chloroethane               | 1.922   | 64    | 61723    | 45.806   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.131   | 101   | 135785   | 45.201   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 72355    | 45.902   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 66182    | 45.239   | ug/L   | 88       |
| 13) Acetone                   | 2.626   | 43    | 121311   | 86.612   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.790   | 76    | 203416   | 41.233   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.948   | 43    | 119456   | 52.497   | ug/L   | 99       |
| 16) Methylene chloride        | 3.044   | 84    | 94727    | 51.419   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 74704    | 46.679   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.363   | 73    | 276747   | 50.487   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.867   | 63    | 163530   | 49.082   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 87506    | 48.652   | ug/L   | 98       |
| 22) 2-Butanone                | 4.700   | 43    | 183548   | 97.881   | ug/L   | 100      |
| 23) Bromochloromethane        | 4.973   | 128   | 46181    | 51.458   | ug/L   | 96       |
| 25) Chloroform                | 5.089   | 83    | 169703   | 50.795   | ug/L   | 100      |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050161

Quant Time: Jul 14 05:04:53 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM071122WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 13 06:51:38 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 142050   | 49.933  | ug/L  | 98       |
| 29) Cyclohexane               | 5.388  | 56   | 133317   | 43.066  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.317  | 97   | 133043   | 46.337  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 107052   | 45.587  | ug/L  | 98       |
| 33) Benzene                   | 5.774  | 78   | 358955   | 48.152  | ug/L  | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 81583    | 45.274  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.764  | 83   | 124024   | 43.799  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 101104   | 48.931  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.105  | 83   | 124586   | 48.632  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 135771   | 48.721  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 334841   | 100.101 | ug/L  | 100      |
| 42) Toluene                   | 7.970  | 91   | 362033   | 48.864  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 130527   | 49.885  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 91385    | 50.670  | ug/L  | 96       |
| 46) Tetrachloroethene         | 8.552  | 164  | 58313    | 46.658  | ug/L  | 95       |
| 48) 2-Hexanone                | 8.684  | 43   | 268922   | 100.604 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.809  | 129  | 91620    | 50.508  | ug/L  | 95       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 91886    | 51.288  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.446  | 112  | 214072   | 47.712  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.571  | 91   | 374610   | 47.914  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.693  | 106  | 139580   | 49.097  | ug/L  | 99       |
| 54) o-Xylene                  | 10.102 | 106  | 141071   | 49.281  | ug/L  | 99       |
| 55) Styrene                   | 10.115 | 104  | 237941   | 50.367  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 162828   | 50.436  | ug/L  | 99       |
| 59) Bromoform                 | 10.291 | 173  | 65732    | 50.075  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 129559   | 49.700  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.484 | 105  | 355302   | 48.619  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 306020   | 49.645  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 303428   | 49.549  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 157982   | 49.522  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 155362   | 48.482  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 162980   | 49.132  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 37618    | 49.249  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 109936   | 49.180  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 97346    | 47.454  | ug/L  | 98       |
| 71) Naphthalene               | 14.086 | 128  | 356881   | 48.666  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 105289   | 49.550  | ug/L  | 100      |

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

