

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU010722\  
 Data File : VU046698.D  
 Acq On : 07 Jan 2022 16:51  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050157

Quant Time: Jan 07 23:28:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM010522WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 07 23:26:33 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 185414   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 183554   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 100376   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.604   | 65    | 58112    | 35.917   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 71.840%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 48849    | 40.641   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 81.280%  |
| 11) 1,1-Dichloroethene-d2     | 2.575   | 63    | 111187   | 40.404   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 80.800%  |
| 21) 2-Butanone-d5             | 4.649   | 46    | 119738   | 101.115  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 101.110% |
| 24) Chloroform-d              | 5.067   | 84    | 123461   | 43.285   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.580%  |
| 26) 1,2-Dichloroethane-d4     | 5.707   | 65    | 79338    | 43.859   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 87.720%  |
| 32) Benzene-d6                | 5.729   | 84    | 238145   | 41.574   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 83.140%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 72143    | 41.276   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 82.560%  |
| 41) Toluene-d8                | 7.899   | 98    | 218206   | 42.610   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 85.220%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 37083    | 44.039   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.080%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 96761    | 104.209  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 104.210% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 122986   | 45.434   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 90.860%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 92248    | 44.414   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.820%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.388   | 85    | 78734    | 46.095   | ug/L   | 99       |
| 3) Chloromethane              | 1.523   | 50    | 71125    | 46.791   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.607   | 62    | 73821    | 46.855   | ug/L   | 99       |
| 6) Bromomethane               | 1.864   | 94    | 47247    | 47.338   | ug/L   | 98       |
| 8) Chloroethane               | 1.938   | 64    | 46607    | 48.875   | ug/L   | 94       |
| 9) Trichlorofluoromethane     | 2.144   | 101   | 111044   | 47.885   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.588   | 101   | 61239    | 46.955   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.584   | 96    | 57772    | 47.043   | ug/L   | 98       |
| 13) Acetone                   | 2.671   | 43    | 90537    | 80.337   | ug/L   | 62       |
| 14) Carbon disulfide          | 2.800   | 76    | 159957   | 43.818   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.964   | 43    | 76052    | 52.835   | ug/L   | 99       |
| 16) Methylene chloride        | 3.051   | 84    | 67741    | 44.780   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 60807    | 47.360   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.366   | 73    | 201447   | 52.808   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.877   | 63    | 113162   | 48.326   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 69565    | 50.555   | ug/L   | 98       |
| 22) 2-Butanone                | 4.726   | 43    | 124611   | 96.991   | ug/L   | 97       |
| 23) Bromochloromethane        | 4.977   | 128   | 36405    | 49.494   | ug/L   | 96       |
| 25) Chloroform                | 5.092   | 83    | 124442   | 48.654   | ug/L   | 99       |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050157

Quant Time: Jan 07 23:28:06 2022  
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 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 07 23:26:33 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.797  | 62   | 96810    | 49.265  | ug/L  | 98       |
| 29) Cyclohexane               | 5.391  | 56   | 94386    | 48.373  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 5.317  | 97   | 108434   | 48.292  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.530  | 117  | 93078    | 47.855  | ug/L  | 97       |
| 33) Benzene                   | 5.777  | 78   | 264256   | 48.401  | ug/L  | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 68029    | 47.505  | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.768  | 83   | 106834   | 48.040  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 66125    | 47.332  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.108  | 83   | 92684    | 48.241  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 105115   | 48.896  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 206711   | 108.232 | ug/L  | 99       |
| 42) Toluene                   | 7.970  | 91   | 288960   | 50.183  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 103516   | 49.633  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 70407    | 49.323  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.555  | 164  | 52624    | 48.434  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.687  | 43   | 171455   | 105.914 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.813  | 129  | 76021    | 48.491  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 76494    | 51.410  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.449  | 112  | 185433   | 49.545  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.571  | 91   | 311967   | 51.069  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.694  | 106  | 124910   | 52.945  | ug/L  | 97       |
| 54) o-xylene                  | 10.102 | 106  | 120838   | 53.563  | ug/L  | 100      |
| 55) Styrene                   | 10.115 | 104  | 213767   | 54.146  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.784 | 83   | 124598   | 49.908  | ug/L  | 98       |
| 59) Bromoform                 | 10.292 | 173  | 59534    | 48.808  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.825 | 75   | 104258   | 49.359  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.485 | 105  | 321012   | 52.355  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 276139   | 53.575  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 279075   | 54.341  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 154450   | 50.256  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 156398   | 48.840  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 153712   | 49.763  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 31276    | 49.464  | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 118594   | 50.383  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 104823   | 52.096  | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 370995   | 56.691  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 107916   | 53.077  | ug/L  | 98       |

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

