

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120821\  
 Data File : VX025650.D  
 Acq On : 09 Dec 2021 03:15  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD050721

Quant Time: Dec 09 05:21:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML112221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 09 03:12:30 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.763   | 114   | 163547   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055  | 117   | 153071   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024  | 152   | 77915    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.368   | 65    | 46931    | 42.048   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 84.100%  |
| 7) Chloroethane-d5            | 1.666   | 69    | 42021    | 45.616   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 91.240%  |
| 11) 1,1-Dichloroethene-d2     | 2.313   | 63    | 83186    | 46.744   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.480%  |
| 21) 2-Butanone-d5             | 4.452   | 46    | 75645    | 91.046   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 91.050%  |
| 24) Chloroform-d              | 5.062   | 84    | 92518    | 47.429   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.860%  |
| 26) 1,2-Dichloroethane-d4     | 5.958   | 65    | 57807    | 47.543   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.080%  |
| 32) Benzene-d6                | 5.976   | 84    | 183514   | 45.235   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.480%  |
| 36) 1,2-Dichloropropane-d6    | 7.312   | 67    | 55280    | 44.011   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 88.020%  |
| 41) Toluene-d8                | 8.653   | 98    | 171715   | 44.843   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 89.680%  |
| 43) trans-1,3-Dichloroprop... | 8.952   | 79    | 24829    | 39.318   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 78.640%  |
| 47) 2-Hexanone-d5             | 9.384   | 63    | 55389    | 84.715   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 84.720%  |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195  | 84    | 80196    | 45.177   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 90.360%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 70210    | 45.944   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.880%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.166   | 85    | 53703    | 55.956   | ug/L   | 99       |
| 3) Chloromethane              | 1.294   | 50    | 52116    | 52.611   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.374   | 62    | 56703    | 49.032   | ug/L   | 100      |
| 6) Bromomethane               | 1.605   | 94    | 33352    | 55.130   | ug/L   | 98       |
| 8) Chloroethane               | 1.685   | 64    | 36675    | 47.606   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.886   | 101   | 83952    | 46.521   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.331   | 101   | 46781    | 49.362   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.319   | 96    | 42859    | 48.802   | ug/L   | 90       |
| 13) Acetone                   | 2.380   | 43    | 49127    | 71.910   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.514   | 76    | 94466    | 43.746   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.703   | 43    | 49912    | 45.206   | ug/L   | # 89     |
| 16) Methylene chloride        | 2.794   | 84    | 51036    | 50.244   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.093   | 96    | 45597    | 48.225   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.117   | 73    | 151310   | 47.085   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.611   | 63    | 81685    | 48.241   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.495   | 96    | 52898    | 47.476   | ug/L   | 100      |
| 22) 2-Butanone                | 4.562   | 43    | 75674    | 83.756   | ug/L   | 100      |
| 23) Bromochloromethane        | 4.904   | 128   | 27791    | 47.212   | ug/L   | 96       |
| 25) Chloroform                | 5.099   | 83    | 88408    | 47.977   | ug/L   | 98       |

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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD050721

Quant Time: Dec 09 05:21:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML112221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 09 03:12:30 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 6.092  | 62   | 67029    | 50.012 | ug/L   | 98       |
| 29) Cyclohexane               | 5.477  | 56   | 73943    | 47.151 | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 5.391  | 97   | 76854    | 45.482 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.678  | 117  | 64823    | 42.959 | ug/L   | 98       |
| 33) Benzene                   | 6.044  | 78   | 191942   | 46.938 | ug/L   | 100      |
| 34) Trichloroethene           | 7.129  | 95   | 50854    | 47.281 | ug/L   | 96       |
| 35) Methylcyclohexane         | 7.385  | 83   | 77118    | 45.555 | ug/L   | 100      |
| 37) 1,2-Dichloropropane       | 7.434  | 63   | 47976    | 46.774 | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.824  | 83   | 61434    | 43.010 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 8.366  | 75   | 72025    | 43.114 | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 145846   | 89.048 | ug/L   | 99       |
| 42) Toluene                   | 8.720  | 91   | 210287   | 46.629 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.982  | 75   | 67966    | 42.330 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 50015    | 45.950 | ug/L   | 97       |
| 46) Tetrachloroethene         | 9.275  | 164  | 48437    | 53.102 | ug/L   | 97       |
| 48) 2-Hexanone                | 9.433  | 43   | 112914   | 85.837 | ug/L   | 99       |
| 49) Dibromochloromethane      | 9.525  | 129  | 50561    | 40.302 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 52635    | 45.372 | ug/L   | 99       |
| 51) Chlorobenzene             | 10.079 | 112  | 138787   | 46.654 | ug/L   | 98       |
| 52) Ethylbenzene              | 10.195 | 91   | 229255   | 47.301 | ug/L   | 97       |
| 53) m,p-Xylene                | 10.305 | 106  | 91592    | 46.653 | ug/L   | 96       |
| 54) o-Xylene                  | 10.646 | 106  | 90421    | 46.010 | ug/L   | 100      |
| 55) Styrene                   | 10.659 | 104  | 153382   | 46.970 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 75392    | 44.856 | ug/L   | 98       |
| 59) Bromoform                 | 10.799 | 173  | 34221    | 35.596 | ug/L   | 98       |
| 60) Isopropylbenzene          | 10.963 | 105  | 234506   | 46.832 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 61157    | 45.884 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 198551   | 47.408 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 196965   | 46.546 | ug/L # | 80       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 108673   | 47.264 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 12.042 | 146  | 107530   | 46.299 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 108292   | 46.578 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 13634    | 36.806 | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene    | 13.115 | 180  | 75017    | 44.849 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 64248    | 45.695 | ug/L   | 98       |
| 71) Naphthalene               | 13.780 | 128  | 221572   | 46.493 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 65259    | 45.308 | ug/L   | 100      |

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

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