

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022520\  
 Data File : VU036897.D  
 Acq On : 25 Feb 2020 10:15  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05056

Quant Time: Feb 26 01:28:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 25 15:15:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 267928   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 252968   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 112220   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 108762   | 48.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.68%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 92330    | 49.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 99.18%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 184812   | 49.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.10%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 158077   | 104.74   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.74% |
| 24) Chloroform-d               | 5.11    | 84    | 175759   | 51.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.30% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 117340   | 50.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.92% |
| 32) Benzene-d6                 | 5.76    | 84    | 375844   | 51.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.76% |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 121877   | 51.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.84% |
| 41) Toluene-d8                 | 7.93    | 98    | 346089   | 50.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.98% |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 56880    | 51.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.28% |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 124376   | 107.33   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.33% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 174409   | 52.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 110775   | 50.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.00% |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 115940 | 51.017 ug/L  | 100    |
| 3) Chloromethane               | 1.54 | 50  | 128819 | 49.270 ug/L  | 100    |
| 5) Vinyl chloride              | 1.62 | 62  | 133526 | 49.512 ug/L  | 99     |
| 6) Bromomethane                | 1.87 | 94  | 75539  | 54.593 ug/L  | 98     |
| 8) Chloroethane                | 1.95 | 64  | 81143  | 50.194 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 143930 | 50.321 ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 90132  | 52.678 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 87035  | 50.293 ug/L  | 95     |
| 13) Acetone                    | 2.66 | 43  | 162583 | 104.729 ug/L | 99     |
| 14) Carbon disulfide           | 2.82 | 76  | 269366 | 49.196 ug/L  | 100    |
| 15) Methyl Acetate             | 2.98 | 43  | 118364 | 50.022 ug/L  | 100    |
| 16) Methylene chloride         | 3.08 | 84  | 103884 | 49.217 ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 92338  | 49.670 ug/L  | 97     |
| 18) Methyl tert-butyl Ether    | 3.40 | 73  | 301086 | 49.824 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 180431 | 49.949 ug/L  | 98     |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 103597 | 49.838 ug/L  | 98     |
| 22) 2-Butanone                 | 4.75 | 43  | 194771 | 104.044 ug/L | 100    |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05056

Quant Time: Feb 26 01:28:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 25 15:15:00 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 47900    | 50.883  | ug/L  | 97       |
| 25) Chloroform                  | 5.13  | 83   | 174826   | 50.160  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 143771   | 50.668  | ug/L  | 99       |
| 29) Cyclohexane                 | 5.43  | 56   | 167933   | 50.026  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 5.36  | 97   | 136217   | 50.224  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 106397   | 50.049  | ug/L  | 100      |
| 33) Benzene                     | 5.81  | 78   | 404177   | 50.575  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 98987    | 50.395  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.79  | 83   | 174119   | 51.127  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 107978   | 50.181  | ug/L  | 100      |
| 38) Bromodichloromethane        | 7.14  | 83   | 128908   | 50.752  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 167912   | 50.658  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 322330   | 101.659 | ug/L  | 100      |
| 42) Toluene                     | 8.00  | 91   | 431816   | 50.717  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 143483   | 49.901  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 96084    | 50.214  | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.58  | 164  | 67467    | 52.140  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.71  | 43   | 257989   | 101.964 | ug/L  | 97       |
| 49) Dibromochloromethane        | 8.83  | 129  | 93488    | 51.474  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 102784   | 51.367  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 254667   | 50.481  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 464180   | 50.291  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.72  | 106  | 175074   | 51.710  | ug/L  | 99       |
| 54) o-xylene                    | 10.12 | 106  | 170742   | 50.564  | ug/L  | 99       |
| 55) Styrene                     | 10.13 | 104  | 285175   | 51.662  | ug/L  | 100      |
| 56) Isopropylbenzene            | 10.50 | 105  | 441260   | 50.877  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 174308   | 50.954  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 140684   | 50.823  | ug/L  | 99       |
| 61) Bromoform                   | 10.31 | 173  | 62642    | 49.373  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 182489   | 50.129  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 179837   | 50.001  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 183397   | 50.455  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 36425    | 50.512  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 120545   | 52.168  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 92902    | 53.663  | ug/L  | 99       |
| 69) Naphthalene                 | 14.12 | 128  | 151315   | 49.513  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.37 | 180  | 93887    | 54.269  | ug/L  | 98       |

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

