

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062424\  
 Data File : VU059434.D  
 Acq On : 24 Jun 2024 08:42  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050192

Quant Time: Jun 24 12:44:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM052924WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 22 00:01:31 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 6.242          | 114  | 230871     | 50.000  | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412          | 117  | 223534     | 50.000  | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807         | 152  | 116232     | 50.000  | ug/L   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 1.595          | 65   | 45270      | 32.749  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 65.500% |        |          |
| 7) Chloroethane-d5            | 1.907          | 69   | 45642      | 38.545  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 77.100% |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.563          | 63   | 97764      | 35.830  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 71.660% |        |          |
| 21) 2-Butanone-d5             | 4.611          | 46   | 100132     | 76.852  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 76.850% |        |          |
| 24) Chloroform-d              | 5.052          | 84   | 117377     | 42.654  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 85.300% |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.692          | 65   | 70467      | 41.780  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 83.560% |        |          |
| 32) Benzene-d6                | 5.721          | 84   | 212973     | 41.512  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 83.020% |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.682          | 67   | 72981      | 41.256  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 82.520% |        |          |
| 41) Toluene-d8                | 7.891          | 98   | 187464     | 43.043  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 86.080% |        |          |
| 43) trans-1,3-Dichloroprop... | 8.174          | 79   | 30129      | 42.136  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 84.280% |        |          |
| 47) 2-Hexanone-d5             | 8.624          | 63   | 65058      | 79.531  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 79.530% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749         | 84   | 128167     | 42.810  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 85.620% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.187         | 152  | 80430      | 46.369  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 92.740% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.380          | 85   | 94697      | 40.482  | ug/L   | 100      |
| 3) Chloromethane              | 1.518          | 50   | 100060     | 37.011  | ug/L   | 100      |
| 5) Vinyl chloride             | 1.599          | 62   | 112304     | 42.275  | ug/L   | 100      |
| 6) Bromomethane               | 1.849          | 94   | 73573      | 34.617  | ug/L   | 100      |
| 8) Chloroethane               | 1.927          | 64   | 68701      | 41.471  | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.132          | 101  | 141311     | 45.712  | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.573          | 101  | 88360      | 49.127  | ug/L   | 92       |
| 12) 1,1-Dichloroethene        | 2.573          | 96   | 78143      | 47.901  | ug/L   | 78       |
| 13) Acetone                   | 2.615          | 43   | 111824     | 73.017  | ug/L   | 98       |
| 14) Carbon disulfide          | 2.785          | 76   | 224701     | 40.899  | ug/L   | 100      |
| 15) Methyl Acetate            | 2.939          | 43   | 93135      | 38.392  | ug/L   | 95       |
| 16) Methylene chloride        | 3.036          | 84   | 95161      | 43.112  | ug/L   | 89       |
| 17) trans-1,2-Dichloroethene  | 3.345          | 96   | 81628      | 46.360  | ug/L   | 91       |
| 18) Methyl tert-butyl Ether   | 3.354          | 73   | 253398     | 44.305  | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.859          | 63   | 160430     | 42.508  | ug/L   | 96       |
| 20) cis-1,2-Dichloroethene    | 4.656          | 96   | 94885      | 47.291  | ug/L   | 87       |
| 22) 2-Butanone                | 4.689          | 43   | 138496     | 74.696  | ug/L   | 91       |
| 23) Bromochloromethane        | 4.965          | 128  | 51935      | 51.101  | ug/L # | 83       |
| 25) Chloroform                | 5.078          | 83   | 169244     | 46.312  | ug/L   | 99       |

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 ClientSampleId :  
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 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 22 00:01:31 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.785  | 62   | 129286   | 41.879 | ug/L   | 96       |
| 29) Cyclohexane               | 5.380  | 56   | 125006   | 41.888 | ug/L   | 92       |
| 30) 1,1,1-Trichloroethane     | 5.309  | 97   | 135248   | 46.535 | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.515  | 117  | 114372   | 48.447 | ug/L   | 100      |
| 33) Benzene                   | 5.766  | 78   | 370408   | 45.890 | ug/L   | 100      |
| 34) Trichloroethene           | 6.534  | 95   | 95547    | 48.344 | ug/L   | 91       |
| 35) Methylcyclohexane         | 6.756  | 83   | 140134   | 48.223 | ug/L   | 93       |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 100356   | 43.785 | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.097  | 83   | 125614   | 47.049 | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 144669   | 45.619 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.782  | 43   | 243024   | 80.878 | ug/L # | 95       |
| 42) Toluene                   | 7.962  | 91   | 399108   | 49.259 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.203  | 75   | 133172   | 46.386 | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 100842   | 48.934 | ug/L   | 98       |
| 46) Tetrachloroethene         | 8.547  | 164  | 76723    | 58.280 | ug/L   | 92       |
| 48) 2-Hexanone                | 8.676  | 43   | 202303   | 79.827 | ug/L # | 96       |
| 49) Dibromochloromethane      | 8.801  | 129  | 98366    | 52.817 | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 105343   | 49.556 | ug/L   | 96       |
| 51) Chlorobenzene             | 9.441  | 112  | 249627   | 51.048 | ug/L   | 95       |
| 52) Ethylbenzene              | 9.563  | 91   | 413082   | 49.454 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.688  | 106  | 159525   | 51.965 | ug/L   | 96       |
| 54) o-Xylene                  | 10.094 | 106  | 154132   | 51.807 | ug/L   | 94       |
| 55) Styrene                   | 10.106 | 104  | 274133   | 54.207 | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 167266   | 44.556 | ug/L   | 97       |
| 59) Bromoform                 | 10.283 | 173  | 80086    | 52.551 | ug/L   | 99       |
| 60) 1,2,3-Trichloropropane    | 10.814 | 75   | 129631   | 40.105 | ug/L   | 97       |
| 61) Isopropylbenzene          | 10.476 | 105  | 409613   | 50.092 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 295111   | 49.810 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 319120   | 49.687 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 199574   | 52.219 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 198237   | 50.224 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 197508   | 49.445 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 33687    | 41.110 | ug/L # | 71       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 139976   | 55.457 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 120886   | 59.965 | ug/L   | 98       |
| 71) Naphthalene               | 14.080 | 128  | 348734   | 54.651 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 125090   | 61.033 | ug/L   | 99       |

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

