

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU052722\  
 Data File : VU048707.D  
 Acq On : 27 May 2022 20:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: May 28 00:26:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052622W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 27 06:42:31 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 5.372  | 168   | 273231   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.250  | 114   | 443063   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 9.417  | 117   | 404751   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 11.812 | 152   | 219872   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.700  | 65    | 192930   | 47.017   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 78 - 117 | Recovery | =      | 94.040%  |
| 35) Dibromofluoromethane     | 5.288  | 113   | 157504   | 49.829   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 99.660%  |
| 50) Toluene-d8               | 7.899  | 98    | 547853   | 48.351   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 92 - 112 | Recovery | =      | 96.700%  |
| 62) 4-Bromofluorobenzene     | 10.632 | 95    | 217721   | 50.808   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | =      | 101.620% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.385  | 85    | 136979   | 43.793   | ug/l   | 99       |
| 3) Chloromethane             | 1.523  | 50    | 162436   | 40.341   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.604  | 62    | 167468   | 44.905   | ug/l   | 97       |
| 5) Bromomethane              | 1.845  | 94    | 89691    | 42.575   | ug/l   | 99       |
| 6) Chloroethane              | 1.929  | 64    | 100948   | 49.261   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 2.137  | 101   | 232346   | 43.623   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.375  | 74    | 91192    | 46.396   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.578  | 101   | 128418   | 44.046   | ug/l   | 99       |
| 10) Methyl Iodide            | 2.723  | 142   | 187486   | 43.695   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 3.173  | 59    | 260761   | 250.653  | ug/l # | 42       |
| 12) 1,1-Dichloroethene       | 2.578  | 96    | 130636   | 46.976   | ug/l   | 97       |
| 13) Acrolein                 | 2.485  | 56    | 51864    | 148.718  | ug/l   | 100      |
| 14) Allyl chloride           | 2.922  | 41    | 247343   | 45.921   | ug/l   | 98       |
| 15) Acrylonitrile            | 3.308  | 53    | 575028   | 254.856  | ug/l   | 99       |
| 16) Acetone                  | 2.620  | 43    | 477845   | 228.503  | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.790  | 76    | 345262   | 42.529   | ug/l   | 98       |
| 18) Methyl Acetate           | 2.945  | 43    | 275956   | 52.558   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.363  | 73    | 517673   | 49.060   | ug/l   | 99       |
| 20) Methylene Chloride       | 3.044  | 84    | 160554   | 45.149   | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 3.353  | 96    | 145872   | 45.856   | ug/l   | 98       |
| 22) Diisopropyl ether        | 3.990  | 45    | 498473   | 50.171   | ug/l   | 96       |
| 23) Vinyl Acetate            | 3.954  | 43    | 2216565  | 257.492  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.867  | 63    | 287808   | 46.123   | ug/l   | 100      |
| 25) 2-Butanone               | 4.697  | 43    | 783016   | 260.640  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 4.665  | 77    | 215499   | 38.494   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.668  | 96    | 177370   | 48.172   | ug/l   | 95       |
| 28) Bromochloromethane       | 4.973  | 49    | 124226   | 50.755   | ug/l   | 99       |
| 29) Tetrahydrofuran          | 5.047  | 42    | 497324   | 262.811  | ug/l   | 99       |
| 30) Chloroform               | 5.089  | 83    | 292712   | 46.881   | ug/l   | 100      |
| 31) Cyclohexane              | 5.388  | 56    | 242881   | 46.968   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.317  | 97    | 262119   | 46.274   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.526  | 75    | 205423   | 44.528   | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.800  | 43    | 278914   | 47.824   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.523  | 117   | 226751   | 42.843   | ug/l   | 98       |
| 39) Methylcyclohexane        | 6.764  | 83    | 227177   | 46.965   | ug/l   | 98       |
| 40) Benzene                  | 5.774  | 78    | 615995   | 45.228   | ug/l   | 100      |

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 Data File : VU048707.D  
 Acq On : 27 May 2022 20:33  
 Operator : SY/MD  
 Sample : VSTDC0050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDC0050EC

Quant Time: May 28 00:26:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052622W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 27 06:42:31 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.970  | 41   | 148296   | 50.319   | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 5.793  | 62   | 235425   | 44.157   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 5.909  | 43   | 420096   | 49.629   | ug/l   | 99       |
| 44) Trichloroethene           | 6.542  | 130  | 157079   | 44.766   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 6.790  | 63   | 167118   | 48.739   | ug/l   | 100      |
| 46) Dibromomethane            | 6.919  | 93   | 115790   | 45.200   | ug/l   | 96       |
| 47) Bromodichloromethane      | 7.105  | 83   | 231506   | 44.688   | ug/l   | 99       |
| 48) Methyl methacrylate       | 6.960  | 41   | 192705   | 50.712   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 6.960  | 88   | 86906    | 1023.067 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 7.790  | 43   | 1418225  | 258.031  | ug/l   | 100      |
| 52) Toluene                   | 7.970  | 92   | 385000   | 47.259   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.211  | 75   | 259319   | 46.404   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 7.607  | 75   | 271273   | 46.846   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 8.401  | 97   | 163496   | 45.473   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 8.333  | 69   | 272693   | 48.101   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 8.575  | 76   | 279609   | 46.206   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 7.462  | 63   | 248758   | 200.349  | ug/l   | 98       |
| 59) 2-Hexanone                | 8.684  | 43   | 1142305  | 253.152  | ug/l   | 99       |
| 60) Dibromochloromethane      | 8.809  | 129  | 185492   | 46.024   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 8.925  | 107  | 177919   | 44.933   | ug/l   | 99       |
| 64) Tetrachloroethene         | 8.552  | 164  | 131498   | 46.714   | ug/l   | 98       |
| 65) Chlorobenzene             | 9.446  | 112  | 422342   | 49.336   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 9.533  | 131  | 160800   | 49.486   | ug/l   | 99       |
| 67) Ethyl Benzene             | 9.571  | 91   | 791815   | 54.842   | ug/l   | 98       |
| 68) m/p-Xylenes               | 9.693  | 106  | 598372   | 105.964  | ug/l   | 99       |
| 69) o-Xylene                  | 10.099 | 106  | 285192   | 51.406   | ug/l   | 100      |
| 70) Styrene                   | 10.115 | 104  | 485585   | 53.213   | ug/l   | 99       |
| 71) Bromoform                 | 10.291 | 173  | 151601   | 50.461   | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.484 | 105  | 753947   | 53.114   | ug/l   | 99       |
| 74) N-amyl acetate            | 10.320 | 43   | 357507   | 49.760   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 295113   | 50.946   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 10.825 | 75   | 350137   | 49.390   | ug/l   | 99       |
| 77) Bromobenzene              | 10.780 | 156  | 190545   | 49.983   | ug/l   | 100      |
| 78) n-propylbenzene           | 10.906 | 91   | 907059   | 53.627   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 10.986 | 91   | 542865   | 51.610   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 663856   | 53.779   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 10.546 | 75   | 93234    | 47.752   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 11.095 | 91   | 632546   | 52.121   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.420 | 119  | 646091   | 54.534   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 734340   | 55.075   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.642 | 105  | 801019   | 54.043   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 11.793 | 119  | 690420   | 54.243   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.745 | 146  | 367487   | 49.167   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 11.835 | 146  | 375141   | 48.581   | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.208 | 91   | 621222   | 48.814   | ug/l   | 99       |
| 90) Hexachloroethane          | 12.475 | 117  | 121651   | 46.831   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 12.211 | 146  | 370415   | 49.057   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 12.996 | 75   | 88892    | 53.296   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 251724   | 50.804   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 14.021 | 225  | 102726   | 43.254   | ug/l   | 99       |
| 95) Naphthalene               | 14.086 | 128  | 1169197  | 66.667   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 250035   | 50.949   | ug/l   | 99       |

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Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050EC

Quant Time: May 28 00:26:04 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052622W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 27 06:42:31 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052722\  
Data File : VU048707.D  
Acq On    : 27 May 2022  20:33  
Operator  : SY/MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_U/WATER  
ALS Vial  : 29   Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTDCCC050EC

Quant Time: May 28 00:26:04 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052622W.M  
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