

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020122\  
 Data File : VN070868.D  
 Acq On : 1 Feb 2022 12:57  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Feb 02 00:33:21 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 18 13:32:07 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/02/2022  
 Supervised By : Mahesh Dadoda 02/07/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.083          | 168  | 785479     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.965          | 114  | 1248700    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.741         | 117  | 1171588    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.672         | 152  | 490022     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 545532     | 48.461   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 96.920%  |        |          |
| 35) Dibromofluoromethane     | 8.019          | 113  | 414398     | 53.500   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 107.000% |        |          |
| 50) Toluene-d8               | 10.438         | 98   | 1673640    | 51.290   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 102.580% |        |          |
| 62) 4-Bromofluorobenzene     | 12.728         | 95   | 627583     | 53.973   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 107.940% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 395518     | 43.576   | ug/l   | 100      |
| 3) Chloromethane             | 2.301          | 50   | 553016     | 41.682   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.451          | 62   | 522612     | 41.416   | ug/l   | 98       |
| 5) Bromomethane              | 2.829          | 94   | 281505     | 42.833   | ug/l   | 98       |
| 6) Chloroethane              | 3.006          | 64   | 314582     | 39.949   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.371          | 101  | 676200     | 46.908   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.821          | 74   | 299426     | 47.551   | ug/l   | 82       |
| 9) 1,1,2-Trichlorotrifluo... | 4.207          | 101  | 414999     | 47.633   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.419          | 142  | 552046     | 49.137   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.382          | 59   | 439308     | 216.308  | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 395296     | 45.491   | ug/l   | 94       |
| 13) Acrolein                 | 4.036          | 56   | 870747     | 298.944  | ug/l   | 100      |
| 14) Allyl chloride           | 4.838          | 41   | 918552     | 48.515   | ug/l   | 85       |
| 15) Acrylonitrile            | 5.548          | 53   | 1496369    | 231.606  | ug/l   | 99       |
| 16) Acetone                  | 4.283          | 43   | 1766965    | 226.149  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.527          | 76   | 1038382    | 43.999   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.851          | 43   | 707658     | 46.054   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 1553270    | 50.037   | ug/l   | 94       |
| 20) Methylene Chloride       | 5.092          | 84   | 483383     | 46.967   | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.594          | 96   | 420758     | 48.111   | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.492          | 45   | 1848108    | 49.247   | ug/l   | 91       |
| 23) Vinyl Acetate            | 6.428          | 43   | 7923689    | 249.082  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.383          | 63   | 908858     | 48.416   | ug/l   | 98       |
| 25) 2-Butanone               | 7.332          | 43   | 2272909    | 231.180  | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.321          | 77   | 736919     | 51.202   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.321          | 96   | 510417     | 49.130   | ug/l   | 87       |
| 28) Bromochloromethane       | 7.654          | 49   | 400199     | 47.484   | ug/l # | 79       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 1340310    | 222.641  | ug/l   | 88       |
| 30) Chloroform               | 7.815          | 83   | 868573     | 47.356   | ug/l   | 98       |
| 31) Cyclohexane              | 8.091          | 56   | 870799     | 43.929   | ug/l   | 87       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 730026     | 50.103   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.217          | 75   | 654631     | 50.203   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.407          | 43   | 820182     | 47.377   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 608447     | 52.451   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.456          | 83   | 822780     | 51.111   | ug/l   | 89       |
| 40) Benzene                  | 8.456          | 78   | 2006482    | 49.660   | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/02/2022  
 Supervised By : Mahesh Dadoda 02/07/2022

Quant Time: Feb 02 00:33:21 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 18 13:32:07 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.632  | 41   | 436419   | 49.551  | ug/l # | 87       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 702756   | 50.162  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.558  | 43   | 1328361  | 50.237  | ug/l   | 96       |
| 44) Trichloroethene           | 9.212  | 130  | 469415   | 51.248  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 558803   | 50.832  | ug/l   | 99       |
| 46) Dibromomethane            | 9.574  | 93   | 328664   | 51.418  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.759  | 83   | 681072   | 52.125  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.555  | 41   | 602689   | 47.844  | ug/l # | 86       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 171708   | 907.458 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 4261879  | 252.593 | ug/l   | 98       |
| 52) Toluene                   | 10.502 | 92   | 1235736  | 51.129  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.717 | 75   | 772788   | 48.831  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 851323   | 54.329  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.894 | 97   | 485293   | 51.112  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 856367   | 47.543  | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.041 | 76   | 865140   | 51.472  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.038 | 63   | 984424   | 217.882 | ug/l   | 91       |
| 59) 2-Hexanone                | 11.084 | 43   | 3057941  | 249.482 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.234 | 129  | 489786   | 55.304  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.341 | 107  | 491760   | 51.587  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.974 | 164  | 416099   | 48.439  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.765 | 112  | 1306936  | 51.487  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.838 | 131  | 464675   | 53.160  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.840 | 91   | 2466056  | 52.400  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.950 | 106  | 1814167  | 105.964 | ug/l   | 92       |
| 69) o-Xylene                  | 12.277 | 106  | 904012   | 53.208  | ug/l   | 92       |
| 70) Styrene                   | 12.291 | 104  | 1497470  | 55.093  | ug/l   | 96       |
| 71) Bromoform                 | 12.454 | 173  | 363833   | 55.103  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.575 | 105  | 2390037  | 51.556  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.387 | 43   | 929985   | 49.064  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.825 | 83   | 711868   | 45.469  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.878 | 75   | 645870m  | 49.695  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 533186   | 51.298  | ug/l   | 79       |
| 78) n-propylbenzene           | 12.916 | 91   | 2807727  | 54.156  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 1674241  | 51.050  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.055 | 105  | 1965280  | 52.423  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.623 | 75   | 219734   | 50.369  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.101 | 91   | 1621048  | 52.903  | ug/l   | 91       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 1703347  | 52.196  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.366 | 105  | 1927754  | 53.496  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 2418641  | 54.516  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.613 | 119  | 1929907  | 55.375  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.613 | 146  | 911473   | 52.716  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.691 | 146  | 892341   | 51.860  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.940 | 91   | 1654274  | 57.537  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.206 | 117  | 330777   | 54.296  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 869824   | 50.918  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.600 | 75   | 126965   | 47.807  | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180  | 454075   | 50.146  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.367 | 225  | 278288   | 55.004  | ug/l   | 98       |
| 95) Naphthalene               | 15.504 | 128  | 1170969  | 46.471  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.697 | 180  | 426111   | 49.288  | ug/l   | 98       |

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Manual Integrations  
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Quant Title : SW846 8260  
QLast Update : Tue Jan 18 13:32:07 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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