

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051022\  
 Data File : VN072392.D  
 Acq On : 10 May 2022 14:42  
 Operator : JC\MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 10 15:31:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051022W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 10 15:27:58 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 260572     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 416828     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 397319     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.669         | 152  | 170003     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 175031     | 44.434  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 88.860% |        |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 129207     | 48.448  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 96.900% |        |          |
| 50) Toluene-d8               | 10.439         | 98   | 503698     | 48.347  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 96.700% |        |          |
| 62) 4-Bromofluorobenzene     | 12.722         | 95   | 171829     | 49.789  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 99.580% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 148361     | 45.376  | ug/l   | 99       |
| 3) Chloromethane             | 2.299          | 50   | 152140     | 38.463  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.440          | 62   | 129082     | 44.024  | ug/l   | 98       |
| 5) Bromomethane              | 2.828          | 94   | 72825      | 45.015  | ug/l   | 92       |
| 6) Chloroethane              | 3.005          | 64   | 70974      | 37.831  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 240664     | 46.548  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.828          | 74   | 89957      | 48.523  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 4.205          | 101  | 129177     | 47.603  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.422          | 142  | 181339     | 53.901  | ug/l # | 89       |
| 11) Tert butyl alcohol       | 5.369          | 59   | 146848     | 226.681 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 121463     | 48.477  | ug/l   | 93       |
| 13) Acrolein                 | 4.034          | 56   | 152735     | 231.266 | ug/l   | 98       |
| 14) Allyl chloride           | 4.840          | 41   | 234405     | 45.716  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.552          | 53   | 429185     | 220.509 | ug/l   | 100      |
| 16) Acetone                  | 4.281          | 43   | 360998     | 212.128 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.528          | 76   | 319954     | 49.126  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.846          | 43   | 218073     | 40.549  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 471933     | 48.503  | ug/l   | 97       |
| 20) Methylene Chloride       | 5.093          | 84   | 144389     | 43.747  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.599          | 96   | 129795     | 47.029  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.493          | 45   | 469784     | 44.557  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.428          | 43   | 2060456    | 232.802 | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.387          | 63   | 264172     | 44.664  | ug/l   | 99       |
| 25) 2-Butanone               | 7.328          | 43   | 589182     | 218.004 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 219350     | 47.170  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 155891     | 46.527  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.657          | 49   | 110835     | 42.601  | ug/l   | 88       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 395460     | 222.777 | ug/l   | 89       |
| 30) Chloroform               | 7.816          | 83   | 268873     | 44.974  | ug/l   | 97       |
| 31) Cyclohexane              | 8.093          | 56   | 237501     | 44.362  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 247937     | 48.436  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 198028     | 50.417  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.404          | 43   | 233444     | 45.587  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 217618     | 51.189  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.457          | 83   | 233315     | 52.938  | ug/l   | 92       |
| 40) Benzene                  | 8.457          | 78   | 579048     | 47.844  | ug/l   | 98       |

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 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 10 15:31:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051022W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 10 15:27:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 113328   | 44.412   | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.522  | 62   | 227528   | 48.905   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 361634   | 42.995   | ug/l   | 97       |
| 44) Trichloroethene           | 9.210  | 130  | 145251   | 50.859   | ug/l   | 86       |
| 45) 1,2-Dichloropropane       | 9.487  | 63   | 152413   | 46.860   | ug/l   | 98       |
| 46) Dibromomethane            | 9.569  | 93   | 103719   | 50.293   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.757  | 83   | 214007   | 49.767   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.551  | 41   | 179799   | 52.703   | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 59626    | 1006.275 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 1178137  | 244.276  | ug/l   | 95       |
| 52) Toluene                   | 10.498 | 92   | 373319   | 51.500   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 230197   | 53.110   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.187 | 75   | 244798   | 52.323   | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 147681   | 48.731   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 240900   | 53.879   | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 259284   | 48.805   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.040 | 63   | 264098   | 255.282  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.081 | 43   | 849754   | 250.216  | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.234 | 129  | 165294   | 52.797   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 153930   | 51.258   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.975 | 164  | 131592   | 53.419   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.763 | 112  | 390339   | 48.353   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.834 | 131  | 152764   | 50.118   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.839 | 91   | 711644   | 50.814   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.951 | 106  | 547876   | 104.736  | ug/l   | 95       |
| 69) o-Xylene                  | 12.275 | 106  | 271732   | 53.613   | ug/l   | 98       |
| 70) Styrene                   | 12.286 | 104  | 430974   | 54.069   | ug/l   | 98       |
| 71) Bromoform                 | 12.451 | 173  | 120608   | 52.866   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.575 | 105  | 701439   | 46.975   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.381 | 43   | 247425   | 44.894   | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.822 | 83   | 221652   | 38.470   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.875 | 75   | 201353m  | 40.680   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 161251   | 45.278   | ug/l   | 94       |
| 78) n-propylbenzene           | 12.916 | 91   | 777187   | 47.392   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 483765   | 44.882   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.051 | 105  | 597201   | 47.878   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.622 | 75   | 66962    | 46.427   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 459283   | 45.811   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.316 | 119  | 519124   | 47.486   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 575339   | 47.942   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 701081   | 49.143   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 570082   | 51.272   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 281716   | 48.811   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 272484   | 48.523   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.939 | 91   | 434307   | 51.290   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.204 | 117  | 102573   | 42.646   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.980 | 146  | 281378   | 49.226   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 45861    | 44.629   | ug/l   | 88       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 123615   | 55.293   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.363 | 225  | 69786    | 45.816   | ug/l   | 97       |
| 95) Naphthalene               | 15.498 | 128  | 386113   | 60.899   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.692 | 180  | 124987   | 57.454   | ug/l   | 97       |

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Sample : VSTDICCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/11/2022  
Supervised By :Mahesh Dadoda 05/11/2022

Quant Time: May 10 15:31:59 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051022W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 10 15:27:58 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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