

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092424\  
 Data File : VN084147.D  
 Acq On : 24 Sep 2024 20:19  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/25/2024  
 Supervised By : Mahesh Dadoda 09/25/2024

Quant Time: Sep 25 01:42:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 142873     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 248523     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 223400     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 109932     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 106722     | 49.539   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 99.080%  |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 82135      | 51.624   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 103.240% |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 290305     | 52.781   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 105.560% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 111919     | 49.320   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 98.640%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 72945      | 43.963   | ug/l   | 100      |
| 3) Chloromethane             | 2.365          | 50   | 82106      | 48.399   | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.518          | 62   | 83961      | 46.166   | ug/l   | 97       |
| 5) Bromomethane              | 2.948          | 94   | 51228      | 49.059   | ug/l   | 98       |
| 6) Chloroethane              | 3.118          | 64   | 57089      | 44.750   | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 146031     | 47.303   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.965          | 74   | 54064      | 52.244   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 84008      | 51.340   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.589          | 142  | 102401     | 49.206   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 95664      | 331.610  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 78751      | 50.961   | ug/l   | 94       |
| 13) Acrolein                 | 4.177          | 56   | 90446      | 317.758  | ug/l   | 98       |
| 14) Allyl chloride           | 5.024          | 41   | 132358     | 48.068   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.718          | 53   | 237610     | 302.867  | ug/l   | 99       |
| 16) Acetone                  | 4.430          | 43   | 202380     | 234.340  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.712          | 76   | 182539     | 42.228   | ug/l   | 100      |
| 18) Methyl Acetate           | 5.030          | 43   | 120323     | 67.519   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 301516     | 53.920   | ug/l   | 99       |
| 20) Methylene Chloride       | 5.277          | 84   | 91763      | 51.923   | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 82089      | 49.567   | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.671          | 45   | 324163     | 57.189   | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.606          | 43   | 1171674    | 282.265  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 173235     | 53.048   | ug/l   | 98       |
| 25) 2-Butanone               | 7.483          | 43   | 311885     | 274.768  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 141689     | 47.114   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 105375     | 53.600   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.812          | 49   | 73828      | 53.684   | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 206683     | 307.946  | ug/l   | 97       |
| 30) Chloroform               | 7.965          | 83   | 184571     | 53.238   | ug/l   | 97       |
| 31) Cyclohexane              | 8.253          | 56   | 140659     | 45.176   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 164957     | 51.746   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 118279     | 49.392   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.559          | 43   | 132281     | 60.856   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 139277     | 51.266   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.600          | 83   | 127948     | 46.940   | ug/l   | 98       |
| 40) Benzene                  | 8.606          | 78   | 380067     | 52.730   | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/25/2024  
 Supervised By : Mahesh Dadoda 09/25/2024

Quant Time: Sep 25 01:42:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 76150    | 59.232   | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 138505   | 51.426   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 227028   | 57.636   | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 88588    | 53.075   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 95994    | 55.103   | ug/l   | 99       |
| 46) Dibromomethane            | 9.706  | 93   | 67265    | 55.126   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.888  | 83   | 149637   | 56.664   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.683  | 41   | 108215   | 57.906   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 38483    | 1251.757 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 672930   | 313.838  | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 232920   | 52.831   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 148568   | 55.503   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 156075   | 55.509   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 91511    | 55.598   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 154175   | 60.883   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 160830   | 56.854   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 330116   | 361.789  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.194 | 43   | 488342   | 307.886  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.359 | 129  | 109160   | 59.261   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 91210    | 55.565   | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.100 | 164  | 73858    | 49.714   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.888 | 112  | 255702   | 51.499   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 91628    | 53.232   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 459624   | 52.110   | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.071 | 106  | 341964   | 104.428  | ug/l   | 100      |
| 69) o-Xylene                  | 12.400 | 106  | 167905   | 52.965   | ug/l   | 98       |
| 70) Styrene                   | 12.412 | 104  | 292669   | 56.254   | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 69628    | 60.029   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.694 | 105  | 436864   | 51.365   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 205747   | 56.700   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 132646   | 53.081   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 110984m  | 50.033   | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 101646   | 49.650   | ug/l   | 100      |
| 78) n-propylbenzene           | 13.035 | 91   | 521262   | 52.676   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 322776   | 51.145   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 372617   | 51.965   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 45950    | 54.254   | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 324648   | 51.262   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 321549   | 51.255   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 377370   | 52.391   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.612 | 105  | 442550   | 53.191   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 366208   | 52.507   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 190397   | 49.279   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 193911   | 49.565   | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.053 | 91   | 322164   | 51.448   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 71042    | 50.673   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 187886   | 50.388   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 26937    | 54.075   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 94463    | 47.209   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 40471    | 47.626   | ug/l   | 98       |
| 95) Naphthalene               | 15.635 | 128  | 316364   | 51.968   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 91671    | 47.937   | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/25/2024  
Supervised By :Mahesh Dadoda 09/25/2024

Quant Time: Sep 25 01:42:08 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration

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

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

