

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072921\  
 Data File : VN067966.D  
 Acq On : 29 Jul 2021 15:25  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN072921

Manual Integrations  
 APPROVED

MMDadoda  
 8/5/2021 7:30:06 PM

Quant Time: Jul 30 04:42:23 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 29 15:02:35 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| -----                        |        |       |          |          |       |          |
| Internal Standards           |        |       |          |          |       |          |
| 1) Pentafluorobenzene        | 8.083  | 168   | 406031   | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.968  | 114   | 714755   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.747 | 117   | 698572   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.678 | 152   | 344032   | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.437  | 65    | 280902   | 48.869   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 61 - 141 | Recovery | =     | 97.740%  |
| 35) Dibromofluoromethane     | 8.021  | 113   | 217359   | 52.181   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 69 - 133 | Recovery | =     | 104.360% |
| 50) Toluene-d8               | 10.443 | 98    | 890459   | 46.604   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 65 - 126 | Recovery | =     | 93.200%  |
| 62) 4-Bromofluorobenzene     | 12.734 | 95    | 320176   | 45.950   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 135 | Recovery | =     | 91.900%  |
| Target Compounds             |        |       |          |          |       |          |
|                              |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.070  | 85    | 188096   | 45.211   | ug/l  | 97       |
| 3) Chloromethane             | 2.301  | 50    | 235797   | 45.626   | ug/l  | 98       |
| 4) Vinyl Chloride            | 2.443  | 62    | 372052   | 46.141   | ug/l  | 98       |
| 5) Bromomethane              | 2.837  | 94    | 322036   | 44.813   | ug/l  | 99       |
| 6) Chloroethane              | 3.009  | 64    | 295590   | 47.278   | ug/l  | 95       |
| 7) Trichlorofluoromethane    | 3.365  | 101   | 714793   | 48.920   | ug/l  | 99       |
| 8) Diethyl Ether             | 3.819  | 74    | 129822   | 46.758   | ug/l  | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 4.200  | 101   | 203275   | 48.260   | ug/l  | 96       |
| 10) Methyl Iodide            | 4.414  | 142   | 242144   | 44.383   | ug/l  | 92       |
| 11) Tert butyl alcohol       | 5.385  | 59    | 194495   | 252.543  | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 4.170  | 96    | 191087   | 49.632   | ug/l  | 89       |
| 13) Acrolein                 | 4.036  | 56    | 130987   | 250.619  | ug/l  | 99       |
| 14) Allyl chloride           | 4.835  | 41    | 327321   | 50.061   | ug/l  | 95       |
| 15) Acrylonitrile            | 5.554  | 53    | 553079   | 256.226  | ug/l  | 99       |
| 16) Acetone                  | 4.285  | 43    | 435578   | 207.683  | ug/l  | 92       |
| 17) Carbon Disulfide         | 4.519  | 76    | 547042   | 48.992   | ug/l  | 98       |
| 18) Methyl Acetate           | 4.854  | 43    | 241034   | 47.795   | ug/l  | 93       |
| 19) Methyl tert-butyl Ether  | 5.616  | 73    | 749491   | 51.859   | ug/l  | 99       |
| 20) Methylene Chloride       | 5.090  | 84    | 239058   | 49.359   | ug/l  | 91       |
| 21) trans-1,2-Dichloroethene | 5.589  | 96    | 226486   | 50.578   | ug/l  | 90       |
| 22) Diisopropyl ether        | 6.495  | 45    | 759342   | 52.316   | ug/l  | 97       |
| 23) Vinyl Acetate            | 6.434  | 43    | 3214992  | 235.026  | ug/l  | 95       |
| 24) 1,1-Dichloroethane       | 6.383  | 63    | 422578   | 50.342   | ug/l  | 99       |
| 25) 2-Butanone               | 7.337  | 43    | 744461   | 244.666  | ug/l  | 96       |
| 26) 2,2-Dichloropropane      | 7.324  | 77    | 372367   | 50.721   | ug/l  | 93       |
| 27) cis-1,2-Dichloroethene   | 7.324  | 96    | 272341   | 51.159   | ug/l  | 86       |
| 28) Bromochloromethane       | 7.654  | 49    | 195940   | 48.941   | ug/l  | # 80     |
| 29) Tetrahydrofuran          | 7.686  | 42    | 501745   | 257.508  | ug/l  | 91       |
| 30) Chloroform               | 7.818  | 83    | 472310   | 50.805   | ug/l  | 100      |
| 31) Cyclohexane              | 8.094  | 56    | 400390   | 47.220   | ug/l  | 93       |
| 32) 1,1,1-Trichloroethane    | 8.013  | 97    | 419386   | 52.226   | ug/l  | 98       |
| 36) 1,1-Dichloropropene      | 8.220  | 75    | 354042   | 53.550   | ug/l  | 96       |
| 37) Ethyl Acetate            | 7.413  | 43    | 319189   | 51.299   | ug/l  | 98       |
| 38) Carbon Tetrachloride     | 8.206  | 117   | 359910   | 55.354   | ug/l  | 96       |
| 39) Methylcyclohexane        | 9.459  | 83    | 397219   | 55.594   | ug/l  | 92       |
| 40) Benzene                  | 8.459  | 78    | 1055675  | 53.935   | ug/l  | 100      |

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 Sample : VSTDICV050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN072921

Manual Integrations  
 APPROVED

MMDadoda  
 8/5/2021 7:30:06 PM

Quant Time: Jul 30 04:42:23 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 29 15:02:35 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.635  | 41   | 155203   | 52.361   | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 376619   | 52.097   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.563  | 43   | 557224   | 53.742   | ug/l   | 96       |
| 44) Trichloroethene           | 9.218  | 130  | 268362   | 54.206   | ug/l   | 84       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 261527   | 53.627   | ug/l   | 99       |
| 46) Dibromomethane            | 9.577  | 93   | 187948   | 53.306   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.762  | 83   | 368579   | 54.850   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.561  | 41   | 236925   | 46.022   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.572  | 88   | 88850    | 1077.322 | ug/l   | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 1711232  | 227.651  | ug/l   | 95       |
| 52) Toluene                   | 10.508 | 92   | 698216   | 54.900   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 400538   | 47.079   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 419526   | 47.549   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 263028   | 53.344   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 410767   | 46.559   | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.047 | 76   | 439926   | 54.716   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 378184   | 221.779  | ug/l   | 92       |
| 59) 2-Hexanone                | 11.087 | 43   | 1221798  | 228.107  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.240 | 129  | 278152   | 45.488   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 272395   | 53.792   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.980 | 164  | 265701   | 53.106   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.773 | 112  | 744580   | 52.404   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 278063   | 48.590   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.846 | 91   | 1384243  | 54.710   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.953 | 106  | 1066391  | 96.618   | ug/l   | 87       |
| 69) o-Xylene                  | 12.283 | 106  | 518632   | 55.756   | ug/l   | 87       |
| 70) Styrene                   | 12.296 | 104  | 870437   | 47.584   | ug/l   | 93       |
| 71) Bromoform                 | 12.460 | 173  | 189686   | 43.087   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.581 | 105  | 1349027  | 48.062   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.390 | 43   | 476409   | 48.831   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 373162   | 43.995   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 337085m  | 48.788   | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 305236   | 47.362   | ug/l   | 75       |
| 78) n-propylbenzene           | 12.924 | 91   | 1578166  | 49.823   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 918597   | 47.584   | ug/l   | 90       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 1132616  | 49.784   | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.629 | 75   | 107788   | 43.779   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.106 | 91   | 937884   | 48.390   | ug/l   | 90       |
| 83) tert-Butylbenzene         | 13.326 | 119  | 941781   | 49.785   | ug/l   | 88       |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 1111755  | 50.436   | ug/l   | 92       |
| 85) sec-Butylbenzene          | 13.503 | 105  | 1346913  | 50.902   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.619 | 119  | 1118580  | 53.133   | ug/l   | 93       |
| 87) 1,3-Dichlorobenzene       | 13.619 | 146  | 593509   | 50.138   | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 576098   | 49.282   | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.946 | 91   | 905409   | 50.156   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.214 | 117  | 186688   | 51.846   | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 550825   | 49.417   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.606 | 75   | 65064    | 48.047   | ug/l   | 72       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 227884   | 45.838   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.373 | 225  | 113494   | 49.000   | ug/l   | 99       |
| 95) Naphthalene               | 15.509 | 128  | 617432   | 43.482   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.703 | 180  | 214250   | 45.551   | ug/l   | 98       |

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Sample : VSTDICV050  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN072921

Manual Integrations  
APPROVED

MMDadoda  
8/5/2021 7:30:06 PM

Quant Time: Jul 30 04:42:23 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 29 15:02:35 2021  
Response via : Initial Calibration

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

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

