

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071621\  
 Data File : VN067784.D  
 Acq On : 16 Jul 2021 19:49  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 7/19/2021 5:54:11 PM

Quant Time: Jul 17 05:00:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 07 16:18:53 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.088          | 168  | 418563     | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 763871     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.747         | 117  | 748905     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.678         | 152  | 373491     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 297029     | 46.955  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 93.920% |        |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 222472     | 48.205  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 96.400% |        |          |
| 50) Toluene-d8               | 10.443         | 98   | 928554     | 48.067  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 96.140% |        |          |
| 62) 4-Bromofluorobenzene     | 12.734         | 95   | 339378     | 49.732  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 99.460% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.070          | 85   | 159532     | 44.842  | ug/l   | 97       |
| 3) Chloromethane             | 2.301          | 50   | 211304     | 37.499  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.440          | 62   | 368906     | 43.379  | ug/l   | 98       |
| 5) Bromomethane              | 2.837          | 94   | 279793     | 48.213  | ug/l   | 99       |
| 6) Chloroethane              | 3.009          | 64   | 288905     | 50.334  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.365          | 101  | 709377     | 55.208  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.819          | 74   | 140950     | 41.635  | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 4.200          | 101  | 190854     | 49.200  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.417          | 142  | 229433     | 49.650  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 5.390          | 59   | 197414     | 217.174 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.170          | 96   | 177867     | 47.791  | ug/l   | 86       |
| 13) Acrolein                 | 4.039          | 56   | 119693     | 270.443 | ug/l   | 100      |
| 14) Allyl chloride           | 4.835          | 41   | 315015     | 46.045  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.554          | 53   | 553926     | 245.684 | ug/l   | 99       |
| 16) Acetone                  | 4.288          | 43   | 457424     | 229.808 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.521          | 76   | 460532     | 44.671  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.857          | 43   | 261108     | 46.703  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 756929     | 49.079  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.087          | 84   | 230619     | 49.626  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.591          | 96   | 211369     | 48.036  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.501          | 45   | 760407     | 48.981  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.436          | 43   | 3258335m   | 245.494 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.388          | 63   | 415299     | 47.986  | ug/l   | 99       |
| 25) 2-Butanone               | 7.340          | 43   | 796957     | 241.120 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.327          | 77   | 334953     | 44.286  | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 268011     | 48.671  | ug/l   | 86       |
| 28) Bromochloromethane       | 7.657          | 49   | 188769     | 44.698  | ug/l   | # 78     |
| 29) Tetrahydrofuran          | 7.689          | 42   | 533259     | 245.337 | ug/l   | 91       |
| 30) Chloroform               | 7.820          | 83   | 478818     | 49.255  | ug/l   | 100      |
| 31) Cyclohexane              | 8.094          | 56   | 377076     | 42.513  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 425084     | 50.428  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.222          | 75   | 344404     | 48.538  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.418          | 43   | 335695     | 48.827  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 363310     | 51.908  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.459          | 83   | 373595     | 48.095  | ug/l   | 91       |
| 40) Benzene                  | 8.461          | 78   | 1036644    | 48.807  | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 7/19/2021 5:54:11 PM

Quant Time: Jul 17 05:00:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 07 16:18:53 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.641  | 41   | 166419   | 47.098  | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 391296   | 49.609  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.563  | 43   | 594179   | 49.131  | ug/l   | 96       |
| 44) Trichloroethene           | 9.217  | 130  | 266017   | 49.351  | ug/l   | 87       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 262531   | 48.821  | ug/l   | 98       |
| 46) Dibromomethane            | 9.580  | 93   | 194635   | 51.010  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.765  | 83   | 378278   | 50.711  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.561  | 41   | 260975   | 48.791  | ug/l   | 87       |
| 49) 1,4-Dioxane               | 9.574  | 88   | 89301    | 844.321 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 1917957  | 258.148 | ug/l   | 96       |
| 52) Toluene                   | 10.508 | 92   | 715047   | 51.394  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.722 | 75   | 411099   | 46.379  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 420330   | 50.669  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 10.902 | 97   | 276963   | 51.945  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 443176   | 53.951  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 11.047 | 76   | 460709   | 50.390  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.044 | 63   | 536251   | 245.159 | ug/l   | 92       |
| 59) 2-Hexanone                | 11.087 | 43   | 1375670  | 265.265 | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.240 | 129  | 301445   | 46.251  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 291749   | 53.596  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.980 | 164  | 262371   | 49.631  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.773 | 112  | 761450   | 49.505  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 289680   | 53.542  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.846 | 91   | 1416944  | 50.603  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.956 | 106  | 1090664  | 102.984 | ug/l   | 87       |
| 69) o-Xylene                  | 12.283 | 106  | 546955   | 52.529  | ug/l   | 86       |
| 70) Styrene                   | 12.296 | 104  | 914979   | 54.933  | ug/l   | 93       |
| 71) Bromoform                 | 12.463 | 173  | 206828   | 43.535  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.581 | 105  | 1422270  | 47.197  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.390 | 43   | 535351   | 48.969  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 412118   | 47.121  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.884 | 75   | 351979m  | 46.147  | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 321903   | 48.264  | ug/l   | 74       |
| 78) n-propylbenzene           | 12.924 | 91   | 1617889  | 47.469  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 969713   | 47.093  | ug/l   | 89       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 1180055  | 48.329  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 114821   | 48.535  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.109 | 91   | 976948   | 47.946  | ug/l   | 91       |
| 83) tert-Butylbenzene         | 13.326 | 119  | 1007449  | 48.380  | ug/l   | 88       |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 1186834  | 49.606  | ug/l   | 93       |
| 85) sec-Butylbenzene          | 13.503 | 105  | 1391821  | 48.295  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.619 | 119  | 1166921  | 50.177  | ug/l   | 93       |
| 87) 1,3-Dichlorobenzene       | 13.619 | 146  | 615717   | 49.762  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 603207   | 47.616  | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.946 | 91   | 947578   | 47.504  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.214 | 117  | 196088   | 50.768  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 598564   | 50.116  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.606 | 75   | 77301    | 50.890  | ug/l   | 70       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 263482   | 42.758  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.373 | 225  | 118537   | 47.232  | ug/l   | 99       |
| 95) Naphthalene               | 15.509 | 128  | 782198   | 43.209  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.703 | 180  | 254173   | 43.008  | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
7/19/2021 5:54:11 PM

Quant Time: Jul 17 05:00:28 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 07 16:18:53 2021  
Response via : Initial Calibration

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

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

