

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081522\  
 Data File : VN073912.D  
 Acq On : 15 Aug 2022 22:26  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 16 00:19:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 15 23:50:46 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/16/2022  
 Supervised By : Mahesh Dadoda 08/16/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 590578              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.904          | 114  | 888503              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.686         | 117  | 800595              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.615         | 152  | 407509              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 313487              | 54.499  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 109.000% |         |        |          |
| 35) Dibromofluoromethane     | 7.951          | 113  | 278737              | 53.047  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 106.100% |         |        |          |
| 50) Toluene-d8               | 10.380         | 98   | 1070483             | 52.603  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 105.200% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.674         | 95   | 375452              | 55.591  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 111.180% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 241255              | 51.519  | ug/l   | 98       |
| 3) Chloromethane             | 2.269          | 50   | 259401              | 49.814  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.404          | 62   | 340280              | 50.901  | ug/l   | 99       |
| 5) Bromomethane              | 2.787          | 94   | 192661              | 46.151  | ug/l   | 99       |
| 6) Chloroethane              | 2.957          | 64   | 229034              | 48.496  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.310          | 101  | 487482              | 56.528  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.763          | 74   | 161274              | 50.379  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.140          | 101  | 242889              | 48.485  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.345          | 142  | 326585              | 54.302  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.292          | 59   | 362284              | 281.565 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.110          | 96   | 235680              | 50.564  | ug/l   | 94       |
| 13) Acrolein                 | 3.981          | 56   | 282357              | 313.514 | ug/l   | 100      |
| 14) Allyl chloride           | 4.763          | 41   | 340019              | 49.256  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.475          | 53   | 841201              | 267.786 | ug/l   | 100      |
| 16) Acetone                  | 4.222          | 43   | 712469              | 262.534 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.457          | 76   | 543622              | 49.051  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.775          | 43   | 393477              | 58.442  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.534          | 73   | 882334              | 52.560  | ug/l   | 96       |
| 20) Methylene Chloride       | 5.010          | 84   | 275343              | 48.082  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.510          | 96   | 252356              | 49.143  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.410          | 45   | 777867              | 53.147  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.351          | 43   | 3410529             | 271.917 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.304          | 63   | 461525              | 50.659  | ug/l   | 97       |
| 25) 2-Butanone               | 7.257          | 43   | 1174678             | 272.988 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.245          | 77   | 325829              | 38.067  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.251          | 96   | 321120              | 50.684  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.586          | 49   | 180328              | 53.667  | ug/l   | 85       |
| 29) Tetrahydrofuran          | 7.610          | 42   | 750572              | 271.916 | ug/l   | 96       |
| 30) Chloroform               | 7.745          | 83   | 514666              | 50.521  | ug/l   | 99       |
| 31) Cyclohexane              | 8.022          | 56   | 394292              | 49.171  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.939          | 97   | 463636              | 51.321  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.151          | 75   | 357079              | 48.926  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.339          | 43   | 449526              | 50.841  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.133          | 117  | 400025              | 47.952  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.398          | 83   | 450771              | 49.292  | ug/l   | 94       |
| 40) Benzene                  | 8.392          | 78   | 1126779             | 48.916  | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 16 00:19:58 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 15 23:50:46 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/16/2022  
 Supervised By : Mahesh Dadoda 08/16/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.569  | 41   | 219572   | 54.951   | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 389445   | 49.171   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.498  | 43   | 670525   | 53.233   | ug/l   | 99       |
| 44) Trichloroethene           | 9.151  | 130  | 325966   | 48.995   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.427  | 63   | 274451   | 49.709   | ug/l   | 99       |
| 46) Dibromomethane            | 9.516  | 93   | 208089   | 49.573   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.698  | 83   | 397228   | 49.511   | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.498  | 41   | 287265   | 53.299   | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 168704   | 1052.579 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.274 | 43   | 2256596  | 264.978  | ug/l   | 99       |
| 52) Toluene                   | 10.445 | 92   | 749566   | 47.455   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.663 | 75   | 420778   | 49.980   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.127 | 75   | 449499   | 48.798   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 308122   | 50.148   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.704 | 69   | 484164   | 55.249   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 505333   | 50.583   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.980  | 63   | 1077709  | 263.112  | ug/l   | 96       |
| 59) 2-Hexanone                | 11.027 | 43   | 1780666  | 271.687  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.180 | 129  | 346644   | 51.017   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 329747   | 50.176   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.916 | 164  | 298512   | 47.241   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.710 | 112  | 832365   | 48.921   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 317428   | 49.267   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.786 | 91   | 1431007  | 50.573   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.892 | 106  | 1141556  | 99.292   | ug/l   | 98       |
| 69) o-Xylene                  | 12.221 | 106  | 573986   | 49.785   | ug/l   | 96       |
| 70) Styrene                   | 12.233 | 104  | 927249   | 51.371   | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 286799   | 49.857   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.521 | 105  | 1470138  | 49.544   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.327 | 43   | 560284   | 49.946   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.768 | 83   | 489709   | 49.179   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.821 | 75   | 362209m  | 42.109   | ug/l   |          |
| 77) Bromobenzene              | 12.798 | 156  | 386808   | 48.159   | ug/l   | 92       |
| 78) n-propylbenzene           | 12.863 | 91   | 1611398  | 50.944   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 973892   | 49.407   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.004 | 105  | 1225243  | 50.764   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.568 | 75   | 141359   | 47.467   | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 947228   | 50.596   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.263 | 119  | 1157318  | 52.107   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.310 | 105  | 1233902  | 51.194   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.445 | 105  | 1521645  | 52.853   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.557 | 119  | 1301458  | 53.063   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.557 | 146  | 695432   | 49.927   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 684519   | 48.492   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.880 | 91   | 993758   | 51.154   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.151 | 117  | 214877   | 47.929   | ug/l   | 85       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 704301   | 48.965   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.539 | 75   | 116805   | 49.680   | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.198 | 180  | 457080   | 52.212   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.304 | 225  | 224545   | 48.658   | ug/l   | 98       |
| 95) Naphthalene               | 15.433 | 128  | 1563571  | 54.784   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.627 | 180  | 472942   | 52.267   | ug/l   | 99       |

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ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022

Quant Time: Aug 16 00:19:58 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 15 23:50:46 2022  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

