

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN012822\  
 Data File : VN070843.D  
 Acq On : 28 Jan 2022 21:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/31/2022  
 Supervised By : Mahesh Dadoda 01/31/2022

Quant Time: Jan 28 23:20:10 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 18 13:32:07 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.085          | 168  | 702191     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 1116893    | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.744         | 117  | 1058357    | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.672         | 152  | 481256     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 449118     | 44.628  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 89.260% |        |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 342778     | 49.476  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 98.960% |        |          |
| 50) Toluene-d8               | 10.440         | 98   | 1298649    | 44.495  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 89.000% |        |          |
| 62) 4-Bromofluorobenzene     | 12.731         | 95   | 503091     | 48.372  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 96.740% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 313210     | 38.600  | ug/l   | 99       |
| 3) Chloromethane             | 2.303          | 50   | 477302     | 40.243  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.448          | 62   | 515803     | 45.724  | ug/l   | 98       |
| 5) Bromomethane              | 2.856          | 94   | 305019     | 51.915  | ug/l   | 98       |
| 6) Chloroethane              | 3.019          | 64   | 271867     | 38.619  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.379          | 101  | 584089     | 45.325  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.824          | 74   | 284329     | 50.509  | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 4.210          | 101  | 396814     | 50.948  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.419          | 142  | 509337     | 50.713  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.374          | 59   | 502448     | 276.741 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.183          | 96   | 395819     | 50.954  | ug/l   | 94       |
| 13) Acrolein                 | 4.041          | 56   | 841106     | 323.019 | ug/l   | 98       |
| 14) Allyl chloride           | 4.840          | 41   | 910443     | 53.790  | ug/l   | 87       |
| 15) Acrylonitrile            | 5.554          | 53   | 1648756    | 285.462 | ug/l   | 99       |
| 16) Acetone                  | 4.288          | 43   | 1374846    | 196.834 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.529          | 76   | 1042032    | 49.391  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.856          | 43   | 755789     | 55.020  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 1602791    | 57.756  | ug/l   | 95       |
| 20) Methylene Chloride       | 5.095          | 84   | 495827     | 53.890  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.599          | 96   | 443366     | 56.709  | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.498          | 45   | 1834062    | 54.669  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.433          | 43   | 8052408    | 283.152 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.388          | 63   | 925781     | 55.167  | ug/l   | 98       |
| 25) 2-Butanone               | 7.335          | 43   | 2256874    | 256.776 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 664384     | 51.638  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 521678     | 56.170  | ug/l   | 90       |
| 28) Bromochloromethane       | 7.659          | 49   | 433610     | 57.550  | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.686          | 42   | 1507267    | 280.071 | ug/l   | 88       |
| 30) Chloroform               | 7.817          | 83   | 834038     | 50.904  | ug/l   | 100      |
| 31) Cyclohexane              | 8.096          | 56   | 733596     | 41.397  | ug/l   | 88       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 651244     | 49.997  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 533527     | 45.744  | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.412          | 43   | 913107     | 58.969  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 512250     | 49.369  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.459          | 83   | 629877     | 43.745  | ug/l   | 89       |
| 40) Benzene                  | 8.461          | 78   | 1613912    | 44.658  | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
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Reviewed By : John Carlone 01/31/2022  
 Supervised By : Mahesh Dadoda 01/31/2022

Quant Time: Jan 28 23:20:10 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 18 13:32:07 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.638  | 41   | 437612   | 55.550  | ug/l   | 89       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 605889   | 48.351  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 1144562  | 48.394  | ug/l   | 96       |
| 44) Trichloroethene           | 9.215  | 130  | 376780   | 45.989  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.488  | 63   | 451776   | 45.946  | ug/l   | 99       |
| 46) Dibromomethane            | 9.577  | 93   | 275553   | 48.196  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.762  | 83   | 562972   | 48.171  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.561  | 41   | 555117   | 49.268  | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 139372   | 823.490 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.330 | 43   | 3687947  | 244.372 | ug/l   | 99       |
| 52) Toluene                   | 10.505 | 92   | 1018891  | 47.132  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.717 | 75   | 645055   | 45.730  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 689406   | 49.188  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.896 | 97   | 398875   | 46.968  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.759 | 69   | 712954   | 44.411  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 718288   | 47.778  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 1028230  | 250.872 | ug/l   | 91       |
| 59) 2-Hexanone                | 11.084 | 43   | 2661829  | 242.794 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.237 | 129  | 408065   | 51.514  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.344 | 107  | 412624   | 48.393  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.977 | 164  | 321893   | 41.481  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.771 | 112  | 1059687  | 46.213  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.840 | 131  | 384966   | 48.753  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.843 | 91   | 1996982  | 46.973  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.953 | 106  | 1449760  | 93.739  | ug/l   | 89       |
| 69) o-Xylene                  | 12.280 | 106  | 718347   | 46.803  | ug/l   | 89       |
| 70) Styrene                   | 12.294 | 104  | 1209958  | 49.278  | ug/l   | 95       |
| 71) Bromoform                 | 12.457 | 173  | 310532   | 52.063  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.578 | 105  | 1908791  | 41.925  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.387 | 43   | 848749   | 45.594  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83   | 647867   | 42.134  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.878 | 75   | 614337m  | 48.130  | ug/l   |          |
| 77) Bromobenzene              | 12.859 | 156  | 441676   | 43.267  | ug/l   | 74       |
| 78) n-propylbenzene           | 12.918 | 91   | 2237562  | 43.945  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.007 | 91   | 1366179  | 42.416  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.058 | 105  | 1591495  | 43.225  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.623 | 75   | 197306   | 46.051  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.103 | 91   | 1341750  | 44.585  | ug/l   | 91       |
| 83) tert-Butylbenzene         | 13.323 | 119  | 1363265  | 42.536  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.366 | 105  | 1563934  | 44.190  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.500 | 105  | 1927368  | 44.234  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.616 | 119  | 1553056  | 45.374  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 771293   | 45.421  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.693 | 146  | 760125   | 44.980  | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.943 | 91   | 1332170  | 47.178  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.208 | 117  | 278543   | 46.554  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.989 | 146  | 740001   | 44.108  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 124203   | 47.619  | ug/l   | 78       |
| 93) 1,2,4-Trichlorobenzene    | 15.262 | 180  | 395077   | 44.816  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 221682   | 44.614  | ug/l   | 99       |
| 95) Naphthalene               | 15.504 | 128  | 1068382  | 43.523  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180  | 377828   | 44.812  | ug/l   | 98       |

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Quant Title : SW846 8260  
QLast Update : Tue Jan 18 13:32:07 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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