

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030624\  
 Data File : VN081313.D  
 Acq On : 06 Mar 2024 09:30  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/07/2024  
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 00:20:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030524W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 06 03:12:57 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 340224     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 615218     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 562732     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 258110     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 243348     | 49.468   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 98.940%  |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 197643     | 52.436   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 104.880% |        |          |
| 50) Toluene-d8               | 10.570         | 98   | 737897     | 52.369   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 104.740% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 262187     | 52.647   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 64 - 133 |      | Recovery = | 105.300% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 218331     | 48.410   | ug/l   | 92       |
| 3) Chloromethane             | 2.359          | 50   | 206414     | 42.370   | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.512          | 62   | 219816     | 43.253   | ug/l   | 95       |
| 5) Bromomethane              | 2.953          | 94   | 140022     | 41.253   | ug/l   | 96       |
| 6) Chloroethane              | 3.118          | 64   | 148485     | 42.539   | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 335547     | 44.631   | ug/l   | 90       |
| 8) Diethyl Ether             | 3.959          | 74   | 113157     | 42.720   | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 186790     | 43.629   | ug/l   | 93       |
| 10) Methyl Iodide            | 4.588          | 142  | 184297     | 47.040   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 171178     | 199.005  | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 172263     | 43.447   | ug/l   | 90       |
| 13) Acrolein                 | 4.177          | 56   | 234017     | 229.756  | ug/l   | 98       |
| 14) Allyl chloride           | 5.024          | 41   | 249667     | 42.430   | ug/l # | 86       |
| 15) Acrylonitrile            | 5.724          | 53   | 482214     | 214.590  | ug/l   | 96       |
| 16) Acetone                  | 4.424          | 43   | 361011     | 207.130  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.712          | 76   | 474807     | 41.958   | ug/l   | 99       |
| 18) Methyl Acetate           | 5.024          | 43   | 231773     | 46.447   | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 590215     | 43.891   | ug/l   | 98       |
| 20) Methylene Chloride       | 5.277          | 84   | 198248     | 45.973   | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.788          | 96   | 187912     | 42.037   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.671          | 45   | 590827     | 45.207   | ug/l # | 91       |
| 23) Vinyl Acetate            | 6.606          | 43   | 2346106    | 220.970  | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 355969     | 44.495   | ug/l   | 97       |
| 25) 2-Butanone               | 7.482          | 43   | 634366     | 217.335  | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 314571     | 44.489   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 221362     | 43.678   | ug/l   | 88       |
| 28) Bromochloromethane       | 7.812          | 49   | 188923     | 55.189   | ug/l # | 71       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 428351     | 215.213  | ug/l # | 89       |
| 30) Chloroform               | 7.965          | 83   | 371615     | 44.762   | ug/l   | 98       |
| 31) Cyclohexane              | 8.253          | 56   | 311616     | 41.841   | ug/l # | 84       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 335268     | 45.687   | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 273866     | 45.037   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.559          | 43   | 248052     | 41.729   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 281653     | 46.021   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.600          | 83   | 331422     | 47.358   | ug/l   | 90       |
| 40) Benzene                  | 8.606          | 78   | 809789     | 44.615   | ug/l   | 98       |

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

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/07/2024  
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 00:20:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030524W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 06 03:12:57 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 136601   | 40.693  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 285402   | 44.596  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.688  | 43   | 438778   | 42.173  | ug/l # | 96       |
| 44) Trichloroethene           | 9.353  | 130  | 204296   | 44.627  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.623  | 63   | 205230   | 45.010  | ug/l   | 98       |
| 46) Dibromomethane            | 9.712  | 93   | 145623   | 45.310  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.888  | 83   | 285925   | 45.827  | ug/l # | 99       |
| 48) Methyl methacrylate       | 9.682  | 41   | 204243   | 44.411  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 87397    | 862.199 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1360813  | 225.254 | ug/l   | 95       |
| 52) Toluene                   | 10.635 | 92   | 505903   | 46.140  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 314874   | 46.643  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 330597   | 45.364  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 192404   | 44.251  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 296860   | 47.547  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 346675   | 45.684  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 852696   | 253.896 | ug/l # | 89       |
| 59) 2-Hexanone                | 11.194 | 43   | 1028187  | 227.659 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.359 | 129  | 211506   | 47.233  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 202490   | 44.884  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 197895   | 44.913  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.894 | 112  | 521266   | 43.958  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.964 | 131  | 191306   | 44.088  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.964 | 91   | 981707   | 45.959  | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.076 | 106  | 746413   | 92.850  | ug/l   | 97       |
| 69) o-Xylene                  | 12.400 | 106  | 364211   | 46.748  | ug/l   | 95       |
| 70) Styrene                   | 12.412 | 104  | 601001   | 48.678  | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 134666   | 44.702  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.700 | 105  | 954988   | 45.820  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 387622   | 44.324  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 268165   | 41.691  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 259704m  | 42.599  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 207701   | 42.031  | ug/l   | 81       |
| 78) n-propylbenzene           | 13.035 | 91   | 1153869  | 46.806  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 665280   | 44.151  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 821527   | 47.683  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 97688    | 44.719  | ug/l # | 82       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 670605   | 45.057  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 669910   | 45.354  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 825184   | 47.273  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 1003824  | 46.977  | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 833978   | 48.666  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 399949   | 42.862  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 402673   | 43.175  | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.058 | 91   | 760314   | 48.381  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.335 | 117  | 139927   | 46.639  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 384974   | 43.001  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 56759    | 41.236  | ug/l   | 79       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 221795   | 46.348  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 86962    | 43.979  | ug/l   | 96       |
| 95) Naphthalene               | 15.641 | 128  | 795059   | 46.692  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 218176   | 44.958  | ug/l   | 97       |

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

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/07/2024  
Supervised By :Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 00:20:28 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030524W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 06 03:12:57 2024  
Response via : Initial Calibration

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

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

