

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013122\  
 Data File : VN070845.D  
 Acq On : 31 Jan 2022 11:20  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/01/2022  
 Supervised By : Mahesh Dadoda 02/03/2022

Quant Time: Jan 31 16:41:01 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        | 8.083          | 168  | 607974              | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.965          | 114  | 972467              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.741         | 117  | 902112              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.672         | 152  | 395491              | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 448144              | 51.433  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 102.860% |         |       |          |
| 35) Dibromofluoromethane     | 8.018          | 113  | 318930              | 52.871  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 105.740% |         |       |          |
| 50) Toluene-d8               | 10.438         | 98   | 1275566             | 50.195  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 100.380% |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.728         | 95   | 487605              | 53.846  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 107.700% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.075          | 85   | 331294              | 47.156  | ug/l  | 99       |
| 3) Chloromethane             | 2.306          | 50   | 499330              | 48.624  | ug/l  | 99       |
| 4) Vinyl Chloride            | 2.453          | 62   | 540870              | 55.377  | ug/l  | 98       |
| 5) Bromomethane              | 2.858          | 94   | 321711              | 63.242  | ug/l  | 98       |
| 6) Chloroethane              | 3.025          | 64   | 358660              | 58.844  | ug/l  | 96       |
| 7) Trichlorofluoromethane    | 3.384          | 101  | 671337              | 60.168  | ug/l  | 97       |
| 8) Diethyl Ether             | 3.824          | 74   | 312615              | 64.140  | ug/l  | 83       |
| 9) 1,1,2-Trichlorotrifluo... | 4.213          | 101  | 355743              | 52.753  | ug/l  | 95       |
| 10) Methyl Iodide            | 4.425          | 142  | 425316              | 48.910  | ug/l  | 98       |
| 11) Tert butyl alcohol       | 5.371          | 59   | 319322              | 203.134 | ug/l  | 98       |
| 12) 1,1-Dichloroethene       | 4.186          | 96   | 352243              | 52.371  | ug/l  | 91       |
| 13) Acrolein                 | 4.041          | 56   | 620651              | 275.293 | ug/l  | 99       |
| 14) Allyl chloride           | 4.843          | 41   | 703683              | 48.018  | ug/l  | 89       |
| 15) Acrylonitrile            | 5.551          | 53   | 1099284             | 219.822 | ug/l  | 99       |
| 16) Acetone                  | 4.282          | 43   | 1477175             | 244.257 | ug/l  | 99       |
| 17) Carbon Disulfide         | 4.535          | 76   | 843559              | 46.180  | ug/l  | 99       |
| 18) Methyl Acetate           | 4.854          | 43   | 516474              | 43.425  | ug/l  | 93       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 1274913             | 53.061  | ug/l  | 97       |
| 20) Methylene Chloride       | 5.095          | 84   | 378753              | 47.545  | ug/l  | 89       |
| 21) trans-1,2-Dichloroethene | 5.597          | 96   | 340195              | 50.256  | ug/l  | 86       |
| 22) Diisopropyl ether        | 6.492          | 45   | 1437163             | 49.477  | ug/l  | 93       |
| 23) Vinyl Acetate            | 6.428          | 43   | 6181812             | 251.061 | ug/l  | 95       |
| 24) 1,1-Dichloroethane       | 6.385          | 63   | 739065              | 50.866  | ug/l  | 98       |
| 25) 2-Butanone               | 7.329          | 43   | 1722545             | 226.354 | ug/l  | 93       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 634897              | 56.993  | ug/l  | 96       |
| 27) cis-1,2-Dichloroethene   | 7.324          | 96   | 410523              | 51.051  | ug/l  | 85       |
| 28) Bromochloromethane       | 7.656          | 49   | 329610              | 50.526  | ug/l  | # 80     |
| 29) Tetrahydrofuran          | 7.681          | 42   | 982391              | 210.830 | ug/l  | 90       |
| 30) Chloroform               | 7.815          | 83   | 723313              | 50.989  | ug/l  | 100      |
| 31) Cyclohexane              | 8.094          | 56   | 694694              | 45.277  | ug/l  | 89       |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 628467              | 55.726  | ug/l  | 98       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 543301              | 53.500  | ug/l  | 96       |
| 37) Ethyl Acetate            | 7.407          | 43   | 606866              | 45.013  | ug/l  | 99       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 537558              | 59.503  | ug/l  | 99       |
| 39) Methylcyclohexane        | 9.456          | 83   | 662420              | 52.838  | ug/l  | 89       |
| 40) Benzene                  | 8.456          | 78   | 1593187             | 50.632  | ug/l  | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/01/2022  
 Supervised By : Mahesh Dadoda 02/03/2022

Quant Time: Jan 31 16:41:01 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         | 7.630  | 41   | 327235   | 47.708  | ug/l   | 86       |
| 42) 1,2-Dichloroethane        | 8.525  | 62   | 603864   | 55.346  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.558  | 43   | 1023436  | 49.699  | ug/l   | 96       |
| 44) Trichloroethene           | 9.212  | 130  | 376220   | 52.741  | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 440543   | 51.458  | ug/l   | 99       |
| 46) Dibromomethane            | 9.574  | 93   | 265848   | 53.404  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.759  | 83   | 570324   | 56.047  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.555  | 41   | 501532   | 51.123  | ug/l # | 78       |
| 49) 1,4-Dioxane               | 9.566  | 88   | 127496   | 865.199 | ug/l   | 86       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 3124208  | 237.762 | ug/l   | 98       |
| 52) Toluene                   | 10.502 | 92   | 998984   | 53.075  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.714 | 75   | 642635   | 51.978  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.185 | 75   | 689606   | 56.509  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.894 | 97   | 384924   | 52.057  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 656544   | 46.839  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.041 | 76   | 686165   | 52.419  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.038 | 63   | 819721   | 231.494 | ug/l   | 91       |
| 59) 2-Hexanone                | 11.081 | 43   | 2372329  | 248.524 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.234 | 129  | 409364   | 59.353  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.341 | 107  | 385889   | 51.979  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.974 | 164  | 332774   | 50.311  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.765 | 112  | 1037657  | 53.090  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.838 | 131  | 387005   | 57.500  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.840 | 91   | 1992524  | 54.986  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.948 | 106  | 1464628  | 111.102 | ug/l   | 90       |
| 69) o-Xylene                  | 12.277 | 106  | 717858   | 54.872  | ug/l   | 90       |
| 70) Styrene                   | 12.291 | 104  | 1204096  | 57.533  | ug/l   | 95       |
| 71) Bromoform                 | 12.454 | 173  | 300447   | 59.096  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.575 | 105  | 1924053  | 51.424  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.385 | 43   | 743906   | 48.628  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.822 | 83   | 583619   | 46.187  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.876 | 75   | 524910m  | 50.042  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 437556   | 52.159  | ug/l   | 78       |
| 78) n-propylbenzene           | 12.916 | 91   | 2260084  | 54.013  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 1369463  | 51.738  | ug/l   | 91       |
| 80) 1,3,5-Trimethylbenzene    | 13.055 | 105  | 1620094  | 53.544  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 178124   | 50.590  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.101 | 91   | 1352597  | 54.693  | ug/l   | 91       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 1398549  | 53.100  | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.364 | 105  | 1597632  | 54.932  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 1962520  | 54.809  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.613 | 119  | 1614908  | 57.412  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.613 | 146  | 774480   | 55.499  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.691 | 146  | 755947   | 54.434  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.940 | 91   | 1358453  | 58.541  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.206 | 117  | 286345   | 58.237  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 728744   | 52.856  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.600 | 75   | 104628   | 48.813  | ug/l   | 79       |
| 93) 1,2,4-Trichlorobenzene    | 15.260 | 180  | 378296   | 51.652  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.364 | 225  | 239104   | 58.556  | ug/l   | 99       |
| 95) Naphthalene               | 15.501 | 128  | 900957   | 44.533  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.697 | 180  | 343796   | 49.273  | ug/l # | 24       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By : John Carlone 02/01/2022  
Supervised By : Mahesh Dadoda 02/03/2022

Quant Time: Jan 31 16:41:01 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) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

