

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN053024\  
 Data File : VN082387.D  
 Acq On : 30 May 2024 11:45  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: May 31 03:54:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/31/2024  
 Supervised By : Mahesh Dadoda 05/31/2024

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 186186              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 315676              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.864         | 117  | 287944              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 140253              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.576          | 65   | 147411              | 50.141  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 100.280% |         |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 101299              | 52.165  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 104.340% |         |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 384159              | 51.599  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 103.200% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 144774              | 54.481  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 64 - 133 |      | Recovery = 108.960% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 121703              | 45.338  | ug/l   | 99       |
| 3) Chloromethane             | 2.359          | 50   | 122578              | 40.293  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.512          | 62   | 150506              | 52.625  | ug/l   | 99       |
| 5) Bromomethane              | 2.947          | 94   | 72049               | 43.829  | ug/l   | 96       |
| 6) Chloroethane              | 3.118          | 64   | 86702               | 46.428  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.494          | 101  | 186976              | 49.927  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.959          | 74   | 68019               | 50.984  | ug/l   | 72       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 107682              | 49.222  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.594          | 142  | 111680              | 50.781  | ug/l   | 90       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 106083              | 224.789 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.341          | 96   | 99684               | 49.024  | ug/l # | 78       |
| 13) Acrolein                 | 4.177          | 56   | 89376               | 255.570 | ug/l   | 98       |
| 14) Allyl chloride           | 5.024          | 41   | 198392              | 45.571  | ug/l # | 89       |
| 15) Acrylonitrile            | 5.718          | 53   | 300787              | 246.098 | ug/l   | 99       |
| 16) Acetone                  | 4.424          | 43   | 268921              | 222.984 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.712          | 76   | 262062              | 39.904  | ug/l   | 95       |
| 18) Methyl Acetate           | 5.024          | 43   | 154750              | 51.525  | ug/l # | 86       |
| 19) Methyl tert-butyl Ether  | 5.788          | 73   | 393154              | 52.897  | ug/l   | 96       |
| 20) Methylene Chloride       | 5.283          | 84   | 115944              | 47.650  | ug/l # | 79       |
| 21) trans-1,2-Dichloroethene | 5.788          | 96   | 108412              | 48.925  | ug/l # | 83       |
| 22) Diisopropyl ether        | 6.671          | 45   | 464697              | 51.118  | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.606          | 43   | 1821808             | 254.185 | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 236997              | 50.580  | ug/l   | 97       |
| 25) 2-Butanone               | 7.482          | 43   | 427554              | 233.828 | ug/l # | 82       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 202972              | 51.718  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 135876              | 51.959  | ug/l   | 82       |
| 28) Bromochloromethane       | 7.812          | 49   | 99625               | 48.870  | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.835          | 42   | 285820              | 243.459 | ug/l # | 84       |
| 30) Chloroform               | 7.971          | 83   | 235833              | 52.707  | ug/l   | 98       |
| 31) Cyclohexane              | 8.259          | 56   | 198277              | 42.227  | ug/l   | 85       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 211847              | 53.368  | ug/l   | 92       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 165006              | 50.664  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.559          | 43   | 182918              | 50.186  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 180393              | 54.640  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.600          | 83   | 173972              | 48.732  | ug/l # | 89       |
| 40) Benzene                  | 8.606          | 78   | 495795              | 51.050  | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/31/2024  
 Supervised By : Mahesh Dadoda 05/31/2024

Quant Time: May 31 03:54:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 107365   | 50.087   | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 194763   | 52.142   | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 341870   | 52.934   | ug/l # | 89       |
| 44) Trichloroethene           | 9.353  | 130  | 112769   | 51.116   | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.623  | 63   | 129610   | 51.724   | ug/l   | 97       |
| 46) Dibromomethane            | 9.706  | 93   | 86760    | 52.737   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.888  | 83   | 193418   | 55.691   | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.682  | 41   | 156106   | 50.726   | ug/l # | 83       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 43915    | 1018.363 | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 955826   | 260.482  | ug/l   | 90       |
| 52) Toluene                   | 10.629 | 92   | 318835   | 54.705   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 199392   | 55.511   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 207943   | 54.692   | ug/l # | 80       |
| 55) 1,1,2-Trichloroethane     | 11.017 | 97   | 115505   | 54.535   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 202787   | 56.393   | ug/l # | 74       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 208876   | 52.745   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 502680   | 271.016  | ug/l   | 92       |
| 59) 2-Hexanone                | 11.194 | 43   | 696270   | 259.145  | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.359 | 129  | 138696   | 59.339   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 117299   | 53.919   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 111078   | 52.046   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.894 | 112  | 336659   | 52.925   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 118906   | 56.749   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.964 | 91   | 616057   | 54.139   | ug/l   | 96       |
| 68) m/p-Xylenes               | 12.070 | 106  | 461547   | 110.669  | ug/l   | 94       |
| 69) o-Xylene                  | 12.400 | 106  | 223723   | 55.379   | ug/l   | 93       |
| 70) Styrene                   | 12.411 | 104  | 386948   | 57.665   | ug/l   | 97       |
| 71) Bromoform                 | 12.576 | 173  | 93301    | 55.903   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 579430   | 52.003   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 298140   | 48.645   | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 163051   | 50.764   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 152933m  | 51.807   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 138907   | 52.312   | ug/l   | 91       |
| 78) n-propylbenzene           | 13.035 | 91   | 691931   | 52.442   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 418195   | 50.475   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 483349   | 53.648   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 63979    | 50.693   | ug/l # | 73       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 422642   | 52.173   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 410111   | 52.031   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 486653   | 52.796   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 582174   | 53.287   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 484242   | 54.538   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 252921   | 52.575   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.811 | 146  | 252856   | 51.499   | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.058 | 91   | 432498   | 54.195   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 89817    | 54.598   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 14.105 | 146  | 242330   | 53.216   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 34662    | 52.525   | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 134177   | 52.567   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 54589    | 48.739   | ug/l   | 95       |
| 95) Naphthalene               | 15.641 | 128  | 432413   | 54.057   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 132570   | 51.881   | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By : John Carlone 05/31/2024  
Supervised By : Mahesh Dadoda 05/31/2024

Quant Time: May 31 03:54:34 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 16 05:21:06 2024  
Response via : Initial Calibration

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

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

