

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022324\  
 Data File : VN081182.D  
 Acq On : 24 Feb 2024 00:33  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/26/2024  
 Supervised By : Mahesh Dadoda 02/26/2024

Quant Time: Feb 24 03:34:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 294078              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 547865              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 504496              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 236461              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 188978              | 52.427  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 104.860% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 163321              | 52.718  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 105.440% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 544431              | 49.479  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 98.960%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 215139              | 52.035  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 104.060% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 200525              | 52.726  | ug/l   | 99       |
| 3) Chloromethane             | 2.365          | 50   | 192465              | 46.290  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.518          | 62   | 220742              | 52.254  | ug/l   | 93       |
| 5) Bromomethane              | 2.948          | 94   | 120760              | 40.248  | ug/l   | 93       |
| 6) Chloroethane              | 3.118          | 64   | 148180              | 54.328  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 331916              | 53.783  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.959          | 74   | 120700              | 53.494  | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 181905              | 52.874  | ug/l   | 92       |
| 10) Methyl Iodide            | 4.589          | 142  | 195308              | 50.859  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 210206              | 317.102 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 174868              | 52.582  | ug/l   | 89       |
| 13) Acrolein                 | 4.183          | 56   | 98545               | 277.359 | ug/l   | 99       |
| 14) Allyl chloride           | 5.024          | 41   | 249362              | 50.535  | ug/l # | 88       |
| 15) Acrylonitrile            | 5.718          | 53   | 521496              | 301.222 | ug/l   | 97       |
| 16) Acetone                  | 4.424          | 43   | 390920              | 275.622 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.712          | 76   | 426423              | 45.971  | ug/l # | 93       |
| 18) Methyl Acetate           | 5.024          | 43   | 237181              | 68.551  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 639025              | 56.103  | ug/l   | 96       |
| 20) Methylene Chloride       | 5.283          | 84   | 208012              | 56.819  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 186533              | 50.273  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.671          | 45   | 639758              | 57.154  | ug/l # | 94       |
| 23) Vinyl Acetate            | 6.606          | 43   | 2550128             | 280.797 | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 366654              | 56.650  | ug/l # | 94       |
| 25) 2-Butanone               | 7.483          | 43   | 659562              | 287.850 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 256681              | 42.326  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 234334              | 54.358  | ug/l   | 85       |
| 28) Bromochloromethane       | 7.812          | 49   | 156956              | 58.496  | ug/l # | 64       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 450940              | 294.814 | ug/l # | 87       |
| 30) Chloroform               | 7.965          | 83   | 391067              | 56.837  | ug/l   | 99       |
| 31) Cyclohexane              | 8.259          | 56   | 302315              | 48.573  | ug/l # | 79       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 343764              | 54.859  | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 276712              | 52.136  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.559          | 43   | 275039              | 57.418  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 296274              | 55.174  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.606          | 83   | 315973              | 51.069  | ug/l   | 91       |
| 40) Benzene                  | 8.606          | 78   | 837874              | 54.540  | ug/l   | 97       |

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 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 153739   | 56.394   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 301585   | 56.268   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 596235   | 71.170   | ug/l   | 96       |
| 44) Trichloroethene           | 9.353  | 130  | 207890   | 50.807   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 216208   | 56.262   | ug/l   | 96       |
| 46) Dibromomethane            | 9.712  | 93   | 153213   | 54.719   | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.888  | 83   | 305399   | 57.590   | ug/l # | 98       |
| 48) Methyl methacrylate       | 9.683  | 41   | 223155   | 57.246   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 95003    | 1337.870 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1451975  | 301.288  | ug/l   | 95       |
| 52) Toluene                   | 10.635 | 92   | 542942   | 55.826   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 311760   | 52.903   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 334867   | 52.594   | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 216622   | 57.910   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 331637   | 58.009   | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 365436   | 56.500   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 756393   | 263.692  | ug/l # | 88       |
| 59) 2-Hexanone                | 11.200 | 43   | 1099389  | 287.746  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.365 | 129  | 227558   | 57.264   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 224996   | 57.198   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 172353   | 50.056   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.894 | 112  | 567181   | 51.945   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 211389   | 53.901   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.965 | 91   | 1035301  | 52.988   | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.076 | 106  | 799728   | 106.787  | ug/l   | 96       |
| 69) o-Xylene                  | 12.400 | 106  | 392348   | 52.852   | ug/l   | 95       |
| 70) Styrene                   | 12.412 | 104  | 645167   | 54.845   | ug/l   | 97       |
| 71) Bromoform                 | 12.582 | 173  | 149403   | 60.046   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1031723  | 49.869   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.494 | 43   | 448978   | 51.348   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 316470   | 54.400   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 249052m  | 46.356   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 230558   | 49.980   | ug/l   | 78       |
| 78) n-propylbenzene           | 13.041 | 91   | 1223736  | 51.382   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 712280   | 48.758   | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 865085   | 51.572   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 95978    | 45.982   | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 701714   | 49.126   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 736955   | 50.809   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 864325   | 51.709   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 1081343  | 53.627   | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 877280   | 52.379   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 419020   | 48.074   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 422059   | 49.280   | ug/l   | 97       |
| 89) n-Butylbenzene            | 14.059 | 91   | 764051   | 52.363   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 153205   | 55.340   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 414762   | 49.338   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 62927    | 52.027   | ug/l   | 76       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 226765   | 48.352   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 81460    | 46.573   | ug/l   | 99       |
| 95) Naphthalene               | 15.647 | 128  | 876600   | 51.006   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 234380   | 50.377   | ug/l   | 99       |

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Manual Integrations  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

