

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112122\  
 Data File : VN075344.D  
 Acq On : 21 Nov 2022 14:35  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN112122

Quant Time: Nov 23 00:20:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 23 00:18:03 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 11/23/2022  
 Supervised By :Mahesh Dadoda 11/23/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 163106     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 265507     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 248772     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 128516     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 42880      | 48.976   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 97.960%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 53354      | 51.154   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 102.300% |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 122494     | 52.145   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 104.280% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 92771      | 53.504   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 107.000% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 60386      | 48.417   | ug/l   | 94       |
| 3) Chloromethane             | 2.371          | 50   | 72844      | 46.939   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.524          | 62   | 95483      | 48.819   | ug/l   | 92       |
| 5) Bromomethane              | 2.930          | 94   | 82458      | 47.943   | ug/l   | 99       |
| 6) Chloroethane              | 3.112          | 64   | 71841      | 48.476   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 134987     | 48.311   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.971          | 74   | 50118      | 51.177   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 78962      | 51.191   | ug/l   | 94       |
| 10) Methyl Iodide            | 4.601          | 142  | 123687     | 49.486   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 86143      | 234.378  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.354          | 96   | 76314      | 50.524   | ug/l   | 86       |
| 13) Acrolein                 | 4.189          | 56   | 77548      | 242.197  | ug/l   | 98       |
| 14) Allyl chloride           | 5.030          | 41   | 91309      | 46.735   | ug/l   | 93       |
| 15) Acrylonitrile            | 5.730          | 53   | 205835     | 244.103  | ug/l   | 99       |
| 16) Acetone                  | 4.436          | 43   | 202052     | 247.414  | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.718          | 76   | 192197     | 48.962   | ug/l   | 97       |
| 18) Methyl Acetate           | 5.030          | 43   | 104729     | 50.892   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.812          | 73   | 264850     | 49.498   | ug/l   | 96       |
| 20) Methylene Chloride       | 5.283          | 84   | 86191      | 52.100   | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 84104      | 48.859   | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.683          | 45   | 219902     | 49.322   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.612          | 43   | 903768m    | 254.794  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 143821     | 50.255   | ug/l   | 99       |
| 25) 2-Butanone               | 7.489          | 43   | 272826     | 239.289  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 129085     | 48.533   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 98710      | 50.713   | ug/l   | 94       |
| 28) Bromochloromethane       | 7.818          | 49   | 58570      | 50.419   | ug/l   | 86       |
| 29) Tetrahydrofuran          | 7.842          | 42   | 173129     | 249.639  | ug/l   | 99       |
| 30) Chloroform               | 7.971          | 83   | 156871     | 47.733   | ug/l   | 99       |
| 31) Cyclohexane              | 8.259          | 56   | 128169     | 46.076   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 146467     | 49.084   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 116108     | 51.047   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.565          | 43   | 105151     | 51.342   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 131500     | 52.629   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.606          | 83   | 153348     | 53.869   | ug/l   | 98       |
| 40) Benzene                  | 8.606          | 78   | 349699     | 50.216   | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 23 00:18:03 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 11/23/2022  
 Supervised By :Mahesh Dadoda 11/23/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 56537    | 53.995   | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 116640   | 50.010   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 173354   | 52.733   | ug/l   | 97       |
| 44) Trichloroethene           | 9.353  | 130  | 96955    | 50.881   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 84838    | 51.121   | ug/l   | 98       |
| 46) Dibromomethane            | 9.712  | 93   | 64125    | 51.086   | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.888  | 83   | 126246   | 51.935   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.683  | 41   | 78524    | 51.658   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 45580    | 1055.991 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 540109   | 257.955  | ug/l   | 97       |
| 52) Toluene                   | 10.630 | 92   | 238801   | 53.213   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 134865   | 55.264   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 145954   | 55.067   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 92281    | 50.488   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 137782   | 55.819   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 150378   | 50.458   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 256208   | 287.798  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.194 | 43   | 416838   | 265.122  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.359 | 129  | 105020   | 55.977   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 97985    | 51.650   | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.106 | 164  | 90527    | 47.652   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.894 | 112  | 255210   | 49.675   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 97047    | 50.613   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.965 | 91   | 459952   | 52.476   | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.071 | 106  | 368888   | 103.639  | ug/l   | 100      |
| 69) o-Xylene                  | 12.400 | 106  | 181782   | 51.402   | ug/l   | 97       |
| 70) Styrene                   | 12.412 | 104  | 299968   | 53.769   | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 81814    | 56.062   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 476699   | 50.770   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 153481   | 53.170   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 138547   | 48.399   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 99763m   | 41.056   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 115361   | 49.767   | ug/l   | 84       |
| 78) n-propylbenzene           | 13.035 | 91   | 544265   | 51.941   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 321557   | 50.931   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 408645   | 52.385   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 43971m   | 53.541   | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.124 | 91   | 321557   | 50.931   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 359231   | 50.507   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 416479   | 53.226   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 515632   | 53.430   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 441146   | 54.331   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 223713   | 50.937   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 223348   | 50.062   | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 376637   | 54.922   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 74018    | 52.842   | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 216849   | 50.653   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 28804    | 53.119   | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 123250   | 56.179   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 63479    | 55.549   | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 374245   | 54.223   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 117291   | 54.396   | ug/l   | 98       |

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

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

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