

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112122\  
 Data File : VN075340.D  
 Acq On : 21 Nov 2022 12:41  
 Operator : JC\MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/22/2022  
 Supervised By : Mahesh Dadoda 11/23/2022

Quant Time: Nov 22 04:48:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 22 04:47:05 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 159896     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 263774     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 243229     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 128348     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 42211      | 21.616   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 43.240%# |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 53829      | 36.415   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 72.820%# |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 122505     | 22.554   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 45.100%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 92475      | 45.001   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 90.000%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 60351      | 31.050   | ug/l   | 97       |
| 3) Chloromethane             | 2.371          | 50   | 70102      | 33.507   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.524          | 62   | 92764      | 31.531   | ug/l   | 97       |
| 5) Bromomethane              | 2.918          | 94   | 88108      | 40.813   | ug/l   | 99       |
| 6) Chloroethane              | 3.107          | 64   | 67504      | 31.744   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 132678     | 42.267   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965          | 74   | 49670      | 43.280   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 74289      | 42.728   | ug/l   | 94       |
| 10) Methyl Iodide            | 4.595          | 142  | 121795     | 46.198   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.542          | 59   | 82040      | 170.559  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 72662      | 43.682   | ug/l   | 85       |
| 13) Acrolein                 | 4.183          | 56   | 74837      | 189.148  | ug/l   | 98       |
| 14) Allyl chloride           | 5.036          | 41   | 87764      | 37.290   | ug/l # | 93       |
| 15) Acrylonitrile            | 5.724          | 53   | 202095     | 197.104  | ug/l   | 98       |
| 16) Acetone                  | 4.436          | 43   | 184570     | 206.213  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.718          | 76   | 189220     | 45.158   | ug/l   | 99       |
| 18) Methyl Acetate           | 5.036          | 43   | 101735     | 35.789   | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 253469     | 41.479   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.289          | 84   | 82589      | 41.552   | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 81193      | 44.406   | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.677          | 45   | 218068     | 41.232   | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.612          | 43   | 892638m    | 203.122  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 139762     | 41.555   | ug/l   | 98       |
| 25) 2-Butanone               | 7.489          | 43   | 264266     | 191.099  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 128446     | 41.555   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 97288      | 44.635   | ug/l   | 94       |
| 28) Bromochloromethane       | 7.818          | 49   | 55154      | 39.416   | ug/l # | 82       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 168807     | 190.188  | ug/l   | 99       |
| 30) Chloroform               | 7.971          | 83   | 154229     | 42.252   | ug/l   | 98       |
| 31) Cyclohexane              | 8.259          | 56   | 126406     | 40.626   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 144854     | 43.586   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 113734     | 47.761   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.565          | 43   | 106118     | 41.203   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 128625     | 49.028   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.600          | 83   | 145304     | 46.511   | ug/l   | 97       |
| 40) Benzene                  | 8.606          | 78   | 344728     | 47.295   | ug/l   | 100      |

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 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/22/2022  
 Supervised By :Mahesh Dadoda 11/23/2022

Quant Time: Nov 22 04:48:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 22 04:47:05 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 51041    | 41.752  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 113955   | 43.566  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 167368   | 42.208  | ug/l   | 97       |
| 44) Trichloroethene           | 9.353  | 130  | 93629    | 50.345  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 82347    | 47.636  | ug/l   | 100      |
| 46) Dibromomethane            | 9.712  | 93   | 62249    | 46.126  | ug/l   | 90       |
| 47) Bromodichloromethane      | 9.888  | 83   | 122290   | 46.800  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.683  | 41   | 77043    | 42.078  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 44943    | 920.108 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 526637   | 206.022 | ug/l   | 97       |
| 52) Toluene                   | 10.630 | 92   | 230285   | 47.667  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 132030   | 48.201  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 139528   | 47.849  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 88906    | 46.377  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 133440   | 45.950  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 147528   | 46.173  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 244274   | 220.145 | ug/l   | 96       |
| 59) 2-Hexanone                | 11.194 | 43   | 403908   | 208.031 | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.359 | 129  | 103826   | 50.783  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 96215    | 48.769  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.106 | 164  | 88113    | 56.895  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.894 | 112  | 251867   | 48.546  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 95889    | 49.743  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.965 | 91   | 448642   | 48.417  | ug/l   | 95       |
| 68) m/p-Xylenes               | 12.071 | 106  | 359382   | 97.142  | ug/l   | 100      |
| 69) o-Xylene                  | 12.400 | 106  | 174127   | 47.525  | ug/l   | 99       |
| 70) Styrene                   | 12.412 | 104  | 291800   | 49.782  | ug/l   | 98       |
| 71) Bromoform                 | 12.576 | 173  | 78662    | 53.869  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 459673   | 45.128  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 148072   | 39.898  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 134959   | 46.102  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 114046m  | 43.017  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 111858   | 48.907  | ug/l   | 85       |
| 78) n-propylbenzene           | 13.035 | 91   | 529824   | 46.259  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 308256   | 44.269  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 396947   | 46.407  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 43122    | 41.755  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.124 | 91   | 308256   | 44.269  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 353655   | 46.390  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 398359   | 46.093  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 499926   | 46.969  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 427183   | 48.496  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 217530   | 48.965  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 214968   | 48.859  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 357383   | 50.215  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 74275    | 46.181  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 217471   | 49.166  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 28366    | 41.846  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 120340   | 60.850  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 60733    | 61.708  | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 372396   | 51.016  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 113558   | 58.167  | ug/l   | 98       |

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Sample : VSTDICCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/22/2022  
Supervised By :Mahesh Dadoda 11/23/2022

Quant Time: Nov 22 04:48:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 22 04:47:05 2022  
Response via : Initial Calibration

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

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

