

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\  
 Data File : VN062966.D  
 Acq On : 15 Aug 2020 4:37  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/17/2020 11:43:33 AM

Quant Time: Aug 17 10:41:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 151880   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 241871   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 229153   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 120163   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 120563     | 48.00   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 96.00%  |       |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 83505      | 50.47   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 100.94% |       |          |
| 50) Toluene-d8              | 10.06 | 98   | 317528     | 49.16   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 98.32%  |       |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 120433     | 49.34   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 98.68%  |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85   | 102761   | 47.250  | ug/l  | 99     |
| 3) Chloromethane              | 2.03 | 50   | 117385   | 57.196  | ug/l  | 99     |
| 4) Vinyl Chloride             | 2.16 | 62   | 163010   | 84.683  | ug/l  | 100    |
| 5) Bromomethane               | 2.50 | 94   | 84524    | 66.331  | ug/l  | 99     |
| 6) Chloroethane               | 2.65 | 64   | 99378    | 78.474  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 2.97 | 101  | 216620   | 63.109  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.37 | 74   | 73269    | 74.564  | ug/l  | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101  | 104624   | 76.034  | ug/l  | 97     |
| 10) Methyl Iodide             | 3.90 | 142  | 130993   | 78.737  | ug/l  | 94     |
| 11) Tert butyl alcohol        | 4.74 | 59   | 121466   | 295.072 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 3.69 | 96   | 96768    | 75.409  | ug/l  | 95     |
| 13) Acrolein                  | 3.57 | 56   | 107416   | 430.974 | ug/l  | 99     |
| 14) Allyl chloride            | 4.27 | 41   | 194464   | 73.132  | ug/l  | 91     |
| 15) Acrylonitrile             | 4.93 | 53   | 376875   | 394.726 | ug/l  | 99     |
| 16) Acetone                   | 3.78 | 43   | 310568   | 342.207 | ug/l  | 98     |
| 17) Carbon Disulfide          | 4.00 | 76   | 258657   | 70.821  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.28 | 43   | 189644   | 89.237  | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73   | 422773   | 71.847  | ug/l  | 95     |
| 20) Methylene Chloride        | 4.50 | 84   | 131378   | 79.552  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96   | 106826   | 70.286  | ug/l  | 97     |
| 22) Diisopropyl ether         | 5.90 | 45   | 492885   | 87.072  | ug/l  | 97     |
| 23) Vinyl Acetate             | 5.84 | 43   | 1634868  | 379.707 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 5.80 | 63   | 245582   | 74.031  | ug/l  | 99     |
| 25) 2-Butanone                | 6.79 | 43   | 482562   | 375.430 | ug/l  | 93     |
| 26) 2,2-Dichloropropane       | 6.77 | 77   | 128816   | 42.127  | ug/l  | 96     |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96   | 130141   | 71.379  | ug/l  | 94     |
| 28) Bromochloromethane        | 7.15 | 49   | 79203    | 49.471  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 7.17 | 42   | 186504   | 223.343 | ug/l  | 98     |
| 30) Chloroform                | 7.33 | 83   | 167523   | 47.519  | ug/l  | 100    |
| 31) Cyclohexane               | 7.61 | 56   | 133788   | 43.935  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97   | 145867   | 46.278  | ug/l  | 97     |
| 36) 1,1-Dichloropropene       | 7.75 | 75   | 108944   | 46.258  | ug/l  | 99     |
| 37) Ethyl Acetate             | 6.88 | 43   | 186473   | 75.797  | ug/l  | 96     |
| 38) Carbon Tetrachloride      | 7.73 | 117  | 127998   | 45.953  | ug/l  | 97     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 128261   | 45.254  | ug/l   | 99       |
| 40) Benzene                    | 8.00  | 78   | 329014   | 46.816  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.12  | 41   | 46113m   | 41.538  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 137309   | 45.905  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 180701   | 44.036  | ug/l   | 98       |
| 44) Trichloroethene            | 8.80  | 130  | 81440    | 47.565  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 93536    | 49.176  | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 60829    | 48.809  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.37  | 83   | 139367   | 49.791  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 89289    | 44.239  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 34658    | 926.713 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 617637   | 232.631 | ug/l   | 99       |
| 52) Toluene                    | 10.12 | 92   | 208040   | 47.945  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 138658   | 45.036  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 145055   | 46.925  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 90690    | 48.937  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 139315   | 49.944  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 153308   | 48.687  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 163831   | 207.783 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 449264   | 226.846 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.88 | 129  | 106333   | 50.280  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 89087    | 48.717  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.61 | 164  | 71487    | 48.350  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.41 | 112  | 233364   | 48.717  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 94506    | 49.129  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 418712   | 48.847  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.60 | 106  | 315661   | 101.446 | ug/l   | 97       |
| 69) o-Xylene                   | 11.92 | 106  | 151378   | 51.913  | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 270468   | 52.768  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 77233    | 49.072  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 421925   | 46.631  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.05 | 43   | 165193   | 45.051  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 136218   | 42.766  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 135829m  | 41.914  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 106183   | 47.230  | ug/l   | 90       |
| 78) n-propylbenzene            | 12.57 | 91   | 489362   | 46.074  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 300074   | 45.053  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 381847   | 48.644  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 41003    | 38.625  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 319534   | 46.553  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 315344   | 47.476  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 376175   | 50.092  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.15 | 105  | 415206   | 47.601  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 375483   | 48.496  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 190980   | 47.551  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 187348   | 46.508  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.59 | 91   | 298597   | 45.600  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.85 | 117  | 72991    | 43.736  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 184012   | 48.869  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 29205    | 42.709  | ug/l   | 96       |

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|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 90469    | 45.087 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 58979    | 49.757 | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 229242   | 42.130 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 88833    | 44.867 | ug/l  | 100      |

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

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