

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042722\  
 Data File : VN072207.D  
 Acq On : 27 Apr 2022 10:40  
 Operator : JC\MD  
 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 04/28/2022  
 Supervised By : Mahesh Dadoda 04/28/2022

Quant Time: Apr 28 06:00:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 288539     | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 470519     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 432098     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 177201     | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.433          | 65   | 211744     | 47.801   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 95.600%  |       |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 151931     | 50.449   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 100.900% |       |          |
| 50) Toluene-d8               | 10.433         | 98   | 604035     | 51.044   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 102.080% |       |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 211822     | 53.928   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 107.860% |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 157510     | 48.700   | ug/l  | 97       |
| 3) Chloromethane             | 2.299          | 50   | 172297     | 47.436   | ug/l  | 97       |
| 4) Vinyl Chloride            | 2.440          | 62   | 143924     | 44.309   | ug/l  | 98       |
| 5) Bromomethane              | 2.834          | 94   | 77765      | 50.015   | ug/l  | 99       |
| 6) Chloroethane              | 3.004          | 64   | 88706      | 48.257   | ug/l  | 99       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 260188     | 45.851   | ug/l  | 98       |
| 8) Diethyl Ether             | 3.822          | 74   | 99383      | 48.365   | ug/l  | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.210          | 101  | 142302     | 47.740   | ug/l  | 95       |
| 10) Methyl Iodide            | 4.422          | 142  | 171938     | 47.520   | ug/l  | # 86     |
| 11) Tert butyl alcohol       | 5.357          | 59   | 160283     | 220.182  | ug/l  | 99       |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 128830     | 46.749   | ug/l  | 96       |
| 13) Acrolein                 | 4.034          | 56   | 155952     | 212.879  | ug/l  | 98       |
| 14) Allyl chloride           | 4.840          | 41   | 267589     | 46.766   | ug/l  | 93       |
| 15) Acrylonitrile            | 5.545          | 53   | 516736     | 235.230  | ug/l  | 99       |
| 16) Acetone                  | 4.275          | 43   | 419961     | 219.894  | ug/l  | 96       |
| 17) Carbon Disulfide         | 4.528          | 76   | 306596     | 47.306   | ug/l  | 100      |
| 18) Methyl Acetate           | 4.851          | 43   | 243018     | 45.513   | ug/l  | 92       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 533933     | 49.428   | ug/l  | 97       |
| 20) Methylene Chloride       | 5.092          | 84   | 165082     | 45.094   | ug/l  | # 86     |
| 21) trans-1,2-Dichloroethene | 5.592          | 96   | 137407     | 45.217   | ug/l  | 86       |
| 22) Diisopropyl ether        | 6.492          | 45   | 561381     | 47.632   | ug/l  | 97       |
| 23) Vinyl Acetate            | 6.428          | 43   | 2434023    | 245.903  | ug/l  | 94       |
| 24) 1,1-Dichloroethane       | 6.381          | 63   | 308905     | 46.857   | ug/l  | 99       |
| 25) 2-Butanone               | 7.328          | 43   | 687760     | 226.122  | ug/l  | 93       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 254882     | 49.495   | ug/l  | 96       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 171342     | 46.251   | ug/l  | 90       |
| 28) Bromochloromethane       | 7.651          | 49   | 140671     | 47.653   | ug/l  | # 81     |
| 29) Tetrahydrofuran          | 7.681          | 42   | 463725     | 232.320  | ug/l  | 89       |
| 30) Chloroform               | 7.816          | 83   | 306739     | 46.341   | ug/l  | 99       |
| 31) Cyclohexane              | 8.092          | 56   | 264330     | 44.660   | ug/l  | 89       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 269252     | 47.800   | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 218298     | 49.799   | ug/l  | 97       |
| 37) Ethyl Acetate            | 7.404          | 43   | 277792     | 47.719   | ug/l  | 95       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 230551     | 49.106   | ug/l  | 99       |
| 39) Methylcyclohexane        | 9.457          | 83   | 255337     | 52.080   | ug/l  | 93       |
| 40) Benzene                  | 8.457          | 78   | 670487     | 49.312   | ug/l  | 98       |

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

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Reviewed By : John Carlone 04/28/2022  
 Supervised By : Mahesh Dadoda 04/28/2022

Quant Time: Apr 28 06:00:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 134469   | 45.660   | ug/l   | 89       |
| 42) 1,2-Dichloroethane        | 8.522  | 62   | 259740   | 49.897   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 424639   | 46.515   | ug/l   | 95       |
| 44) Trichloroethene           | 9.210  | 130  | 152749   | 48.293   | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 180379   | 49.095   | ug/l   | 99       |
| 46) Dibromomethane            | 9.575  | 93   | 114802   | 49.879   | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.757  | 83   | 243223   | 50.364   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.557  | 41   | 209991   | 54.608   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 70365    | 1041.691 | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.327 | 43   | 1393543  | 253.707  | ug/l   | 94       |
| 52) Toluene                   | 10.504 | 92   | 426223   | 52.436   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 259523   | 53.459   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 282506   | 53.809   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 167590   | 49.172   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 283617   | 47.634   | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 302929   | 50.651   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.033 | 63   | 381805   | 238.626  | ug/l   | 93       |
| 59) 2-Hexanone                | 11.080 | 43   | 1000339  | 258.491  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.233 | 129  | 181406   | 52.051   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 168506   | 50.273   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.974 | 164  | 130534   | 50.186   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.769 | 112  | 431535   | 49.428   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.833 | 131  | 167837   | 51.018   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.839 | 91   | 825122   | 54.193   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.951 | 106  | 606757   | 107.316  | ug/l   | 91       |
| 69) o-Xylene                  | 12.274 | 106  | 300313   | 54.790   | ug/l   | 94       |
| 70) Styrene                   | 12.292 | 104  | 485458   | 56.228   | ug/l   | 96       |
| 71) Bromoform                 | 12.451 | 173  | 130636   | 53.392   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.574 | 105  | 789768   | 50.463   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.380 | 43   | 293554   | 50.066   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 262503   | 50.299   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 196654m  | 47.914   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 175664   | 47.463   | ug/l   | 87       |
| 78) n-propylbenzene           | 12.915 | 91   | 899166   | 52.152   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 562234   | 49.647   | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 666125   | 51.107   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 78876    | 51.468   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 537233   | 50.962   | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.315 | 119  | 572717   | 50.046   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 652211   | 51.719   | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 794901   | 53.279   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 641224   | 55.128   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 301061   | 50.260   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.686 | 146  | 292761   | 50.257   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.939 | 91   | 500299   | 56.154   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.204 | 117  | 118496   | 46.929   | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.980 | 146  | 294953   | 49.958   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 49881    | 46.083   | ug/l   | 79       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 130439   | 47.898   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 77936    | 49.262   | ug/l   | 99       |
| 95) Naphthalene               | 15.498 | 128  | 386593   | 42.799   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 126684   | 46.756   | ug/l   | 97       |

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Reviewed By :John Carlone 04/28/2022  
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QLast Update : Tue Apr 26 18:50:11 2022  
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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

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