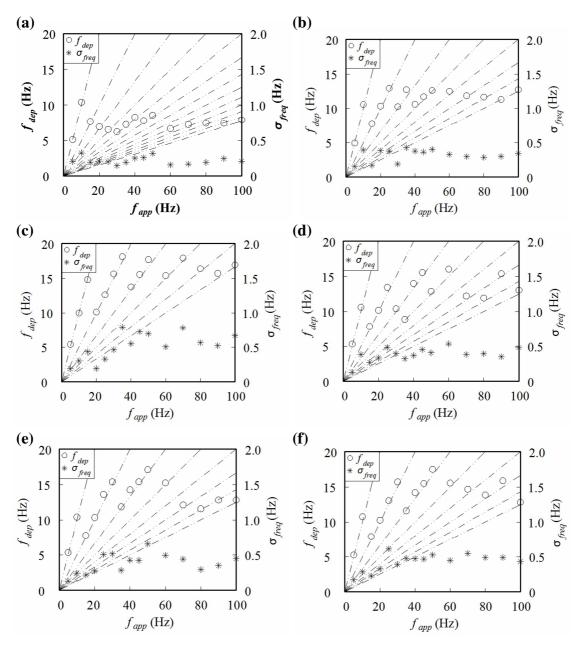
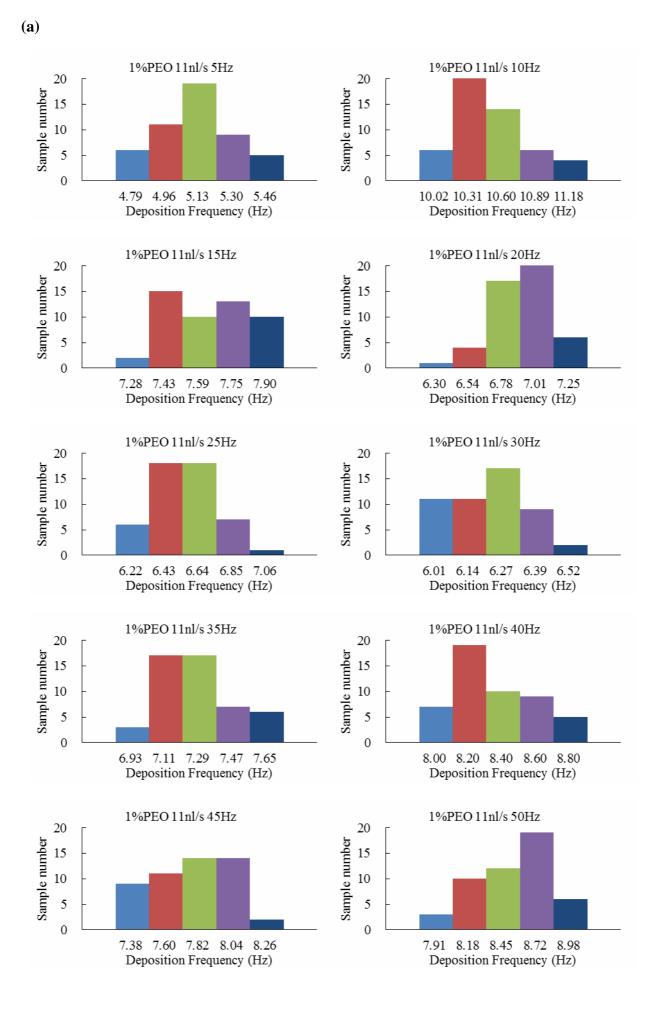
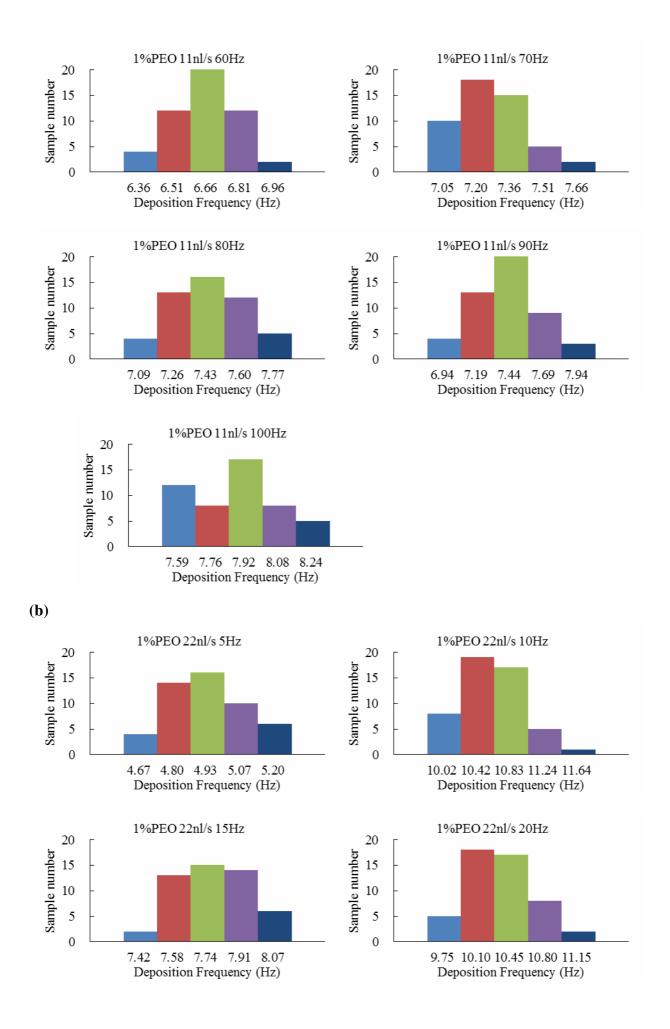
## Supplementary Material for Electrohydrodynamic Deposition of Polymeric Droplets under Low-Frequency Pulsation

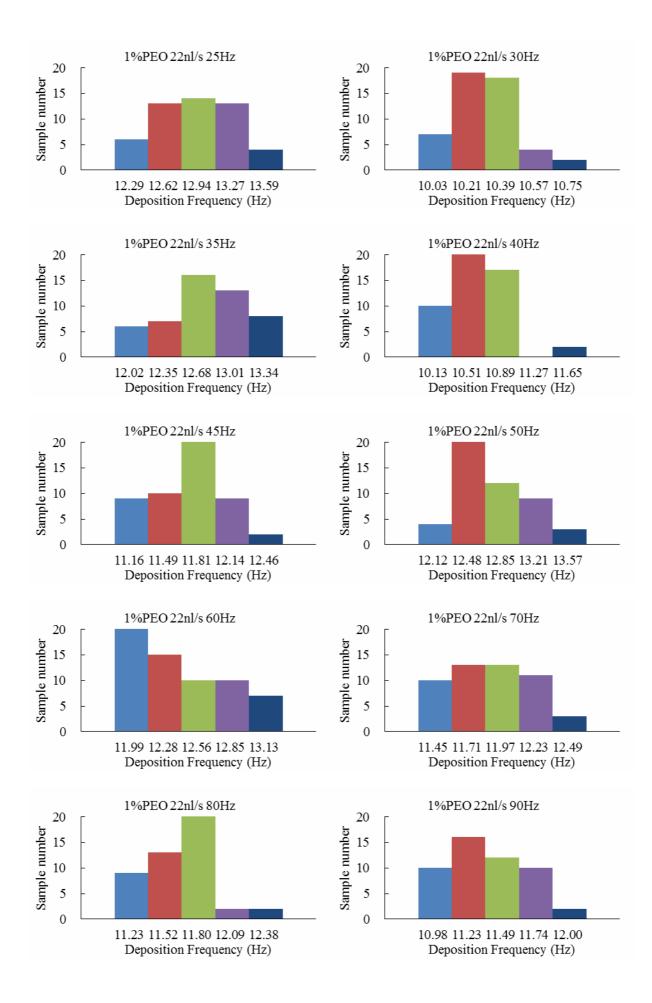
Figures S1 summarize deposition frequency of droplets under 6 different conditions by varying PEO concentrations (either 1% or 5% PEO) and flow supply rates (11, 22, and 33 nl/s) under a fixed applied voltage of 2250 volts and 50% duty cycle ratio. Together with the applied frequency variations (from 5 to 100Hz), a total of 90 points have been collected with calculated standard deviations,  $\sigma_{freq}$ , from more than 50 deposited droplets. Figure S2 shows the histogram of all 90 data points of deposition frequencies.

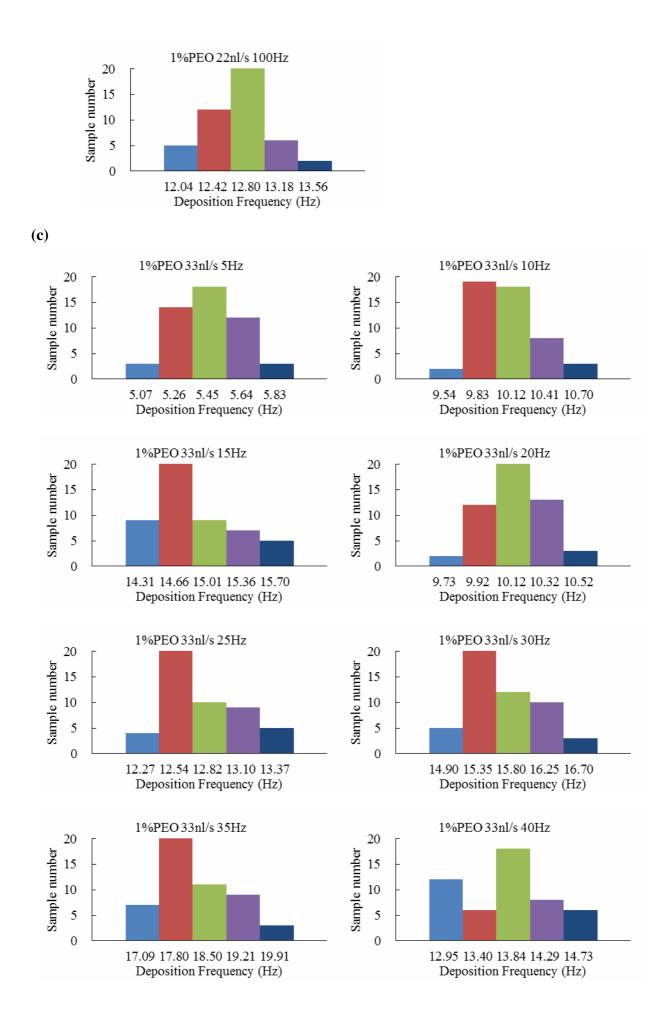


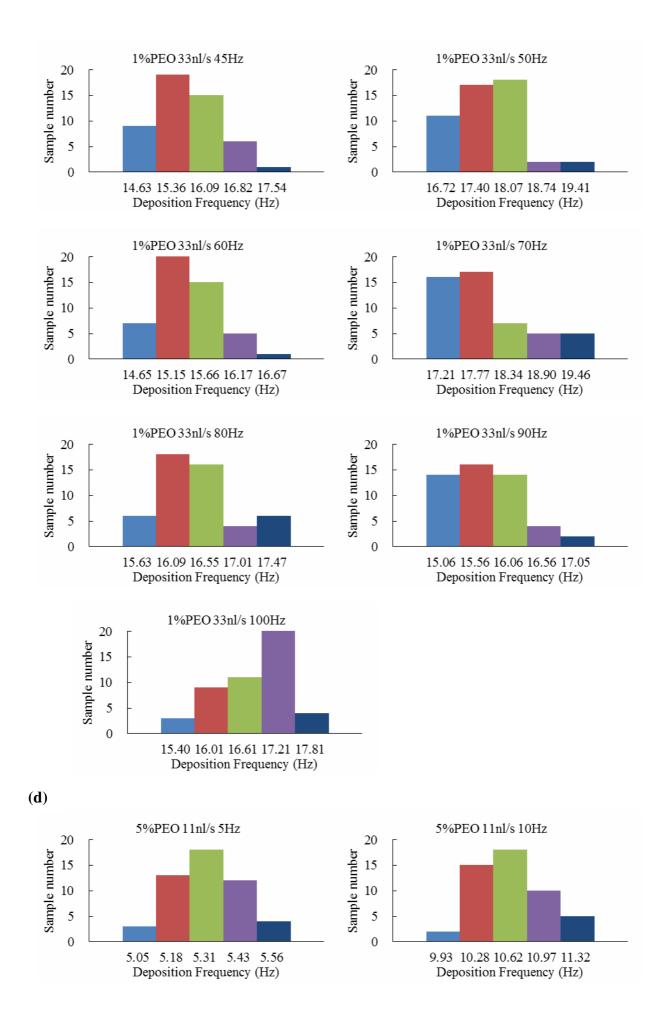
**Figure S1.** The median value and standard deviation of the droplet deposition frequency with respect to various applied voltage frequency. Each data point is calculated from more than 50 deposited droplets. (a) 1% PEO at solution supply rate of 11 nl/s; (b) 1% PEO at solution supply rate of 22 nl/s; (c) 1% PEO at solution supply rate of 33 nl/s; (d) 5% PEO solution at solution supply rate of 11 nl/s; and (f) 5% PEO solution at solution at solution supply rate of 33 nl/s.

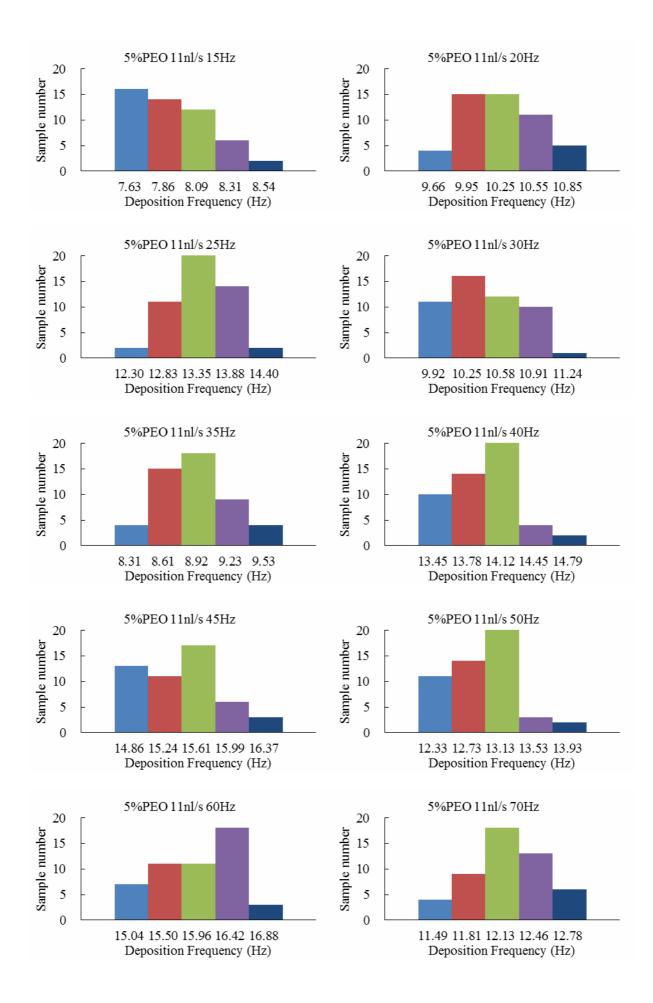


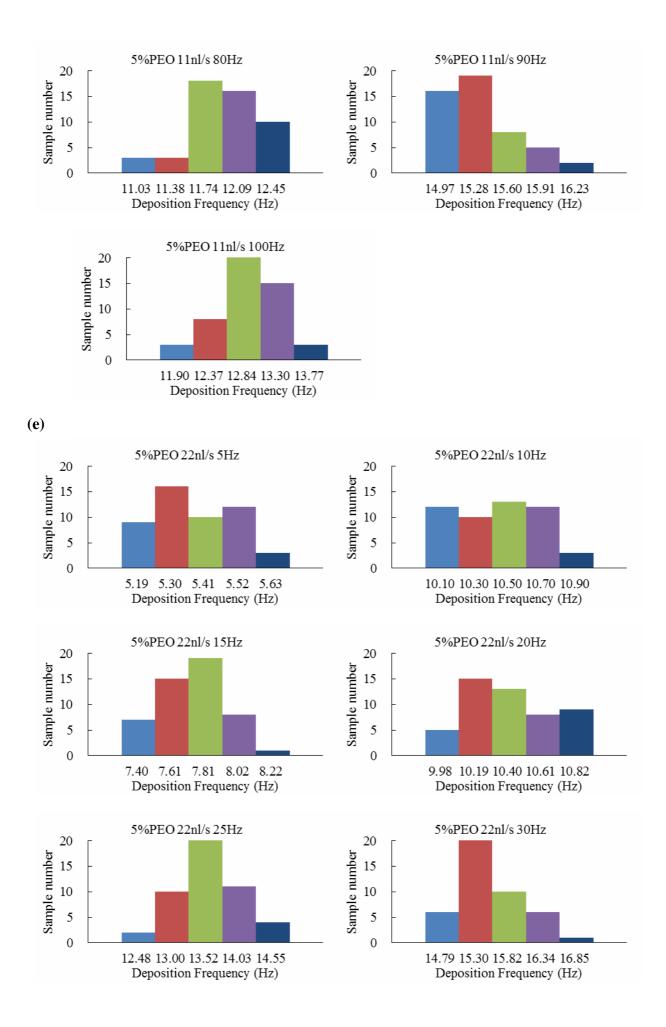


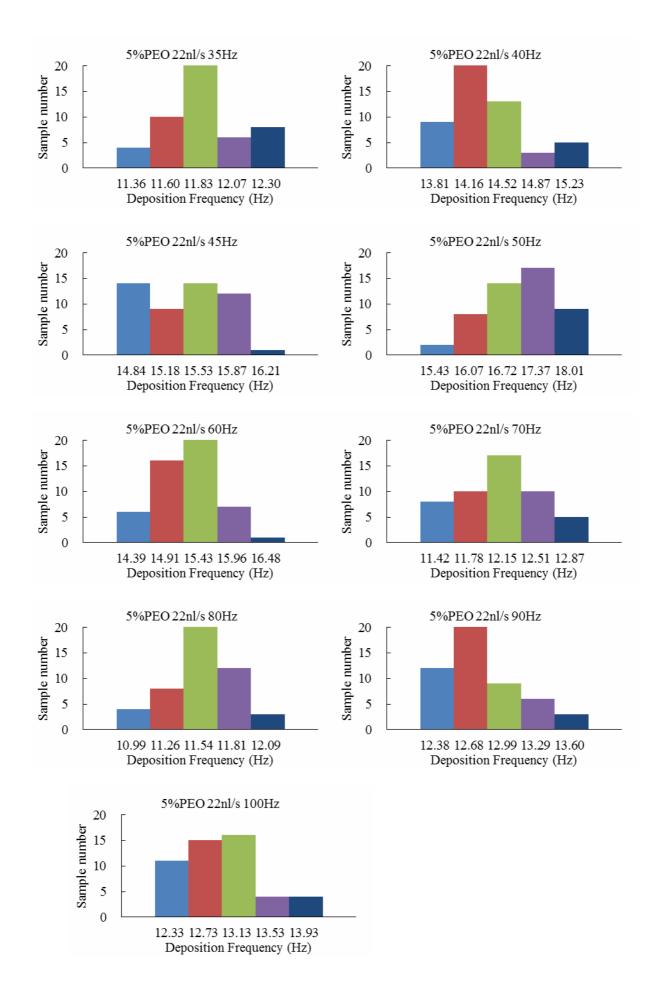


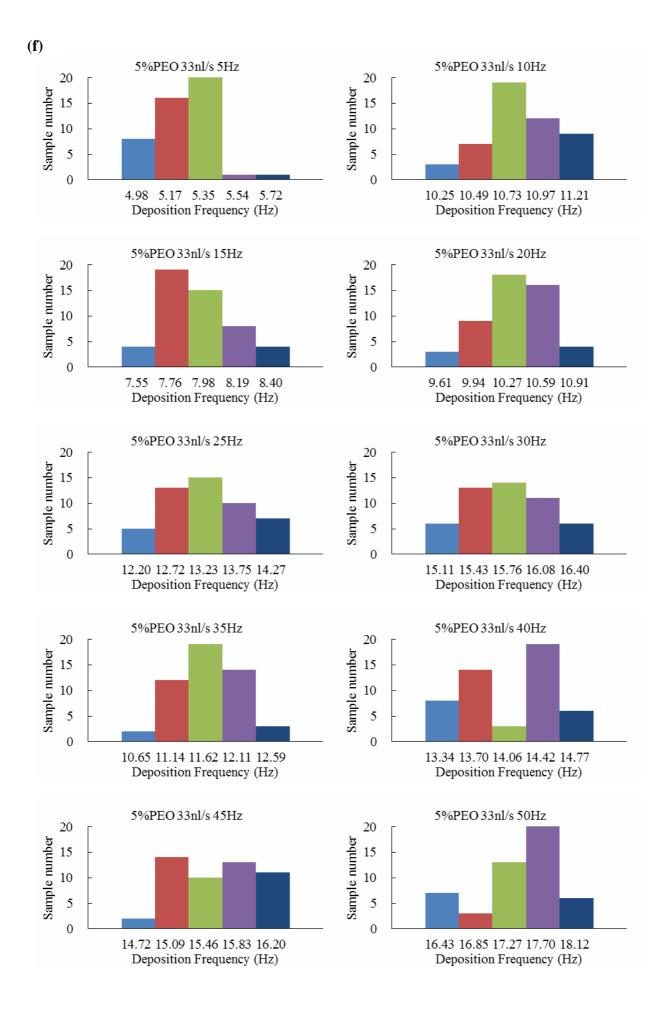


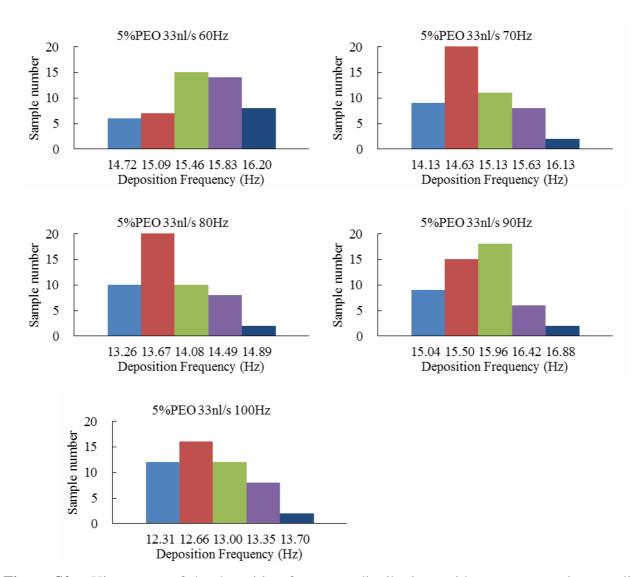












**Figure S2.** Histograms of the deposition frequency distributions with respect to various applied voltage frequencies and testing conditions: (a) 1% PEO solution at solution supply rate of 11 nl/s; (b) 1% PEO solution at solution supply rate of 22 nl/s; (c) 1% PEO solution at solution supply rate of 33 nl/s; (d) 5% PEO solution at solution supply rate of 11 nl/s; (e) 5% PEO solution at solution supply rate of 22 nl/s; and (f) 5% PEO solution at solution supply rate of 33 nl/s.