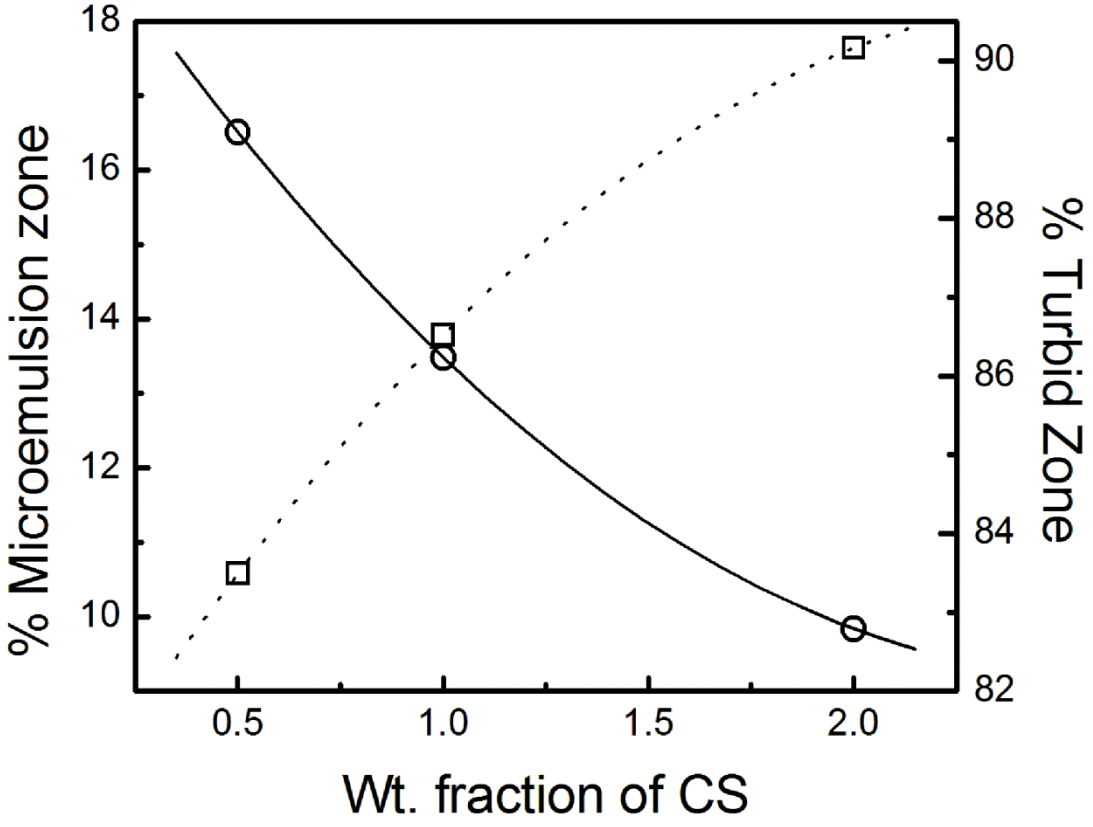

Figure S1. Variation in the area under clear (O) and turbid (□) regions with the weight fraction of n-pentanol (CS) for [$b_4$mpy][BF_4]/(Tween-20+n-pentanol)/n-heptane pseudo-ternary system at 298 K.

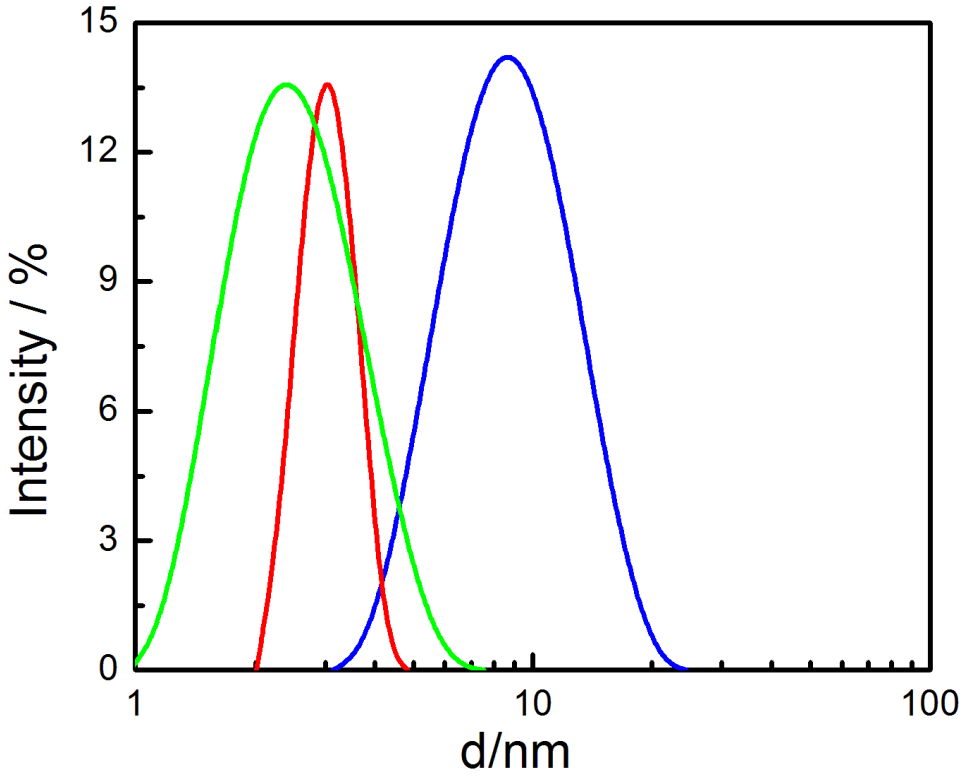

Fig S2. Dependence of size distribution on Tween20/n-pentanol (S/CS) ratio for [$b_4$mpy][BF_4]/(Tween-20+n-pentanol)/n-heptane IL-in-oil microemulsion systems. Tween 20/ n-pentanol ratio (w/w): 1:0.5, blue line; 1:1, red line and 1:2, green line.

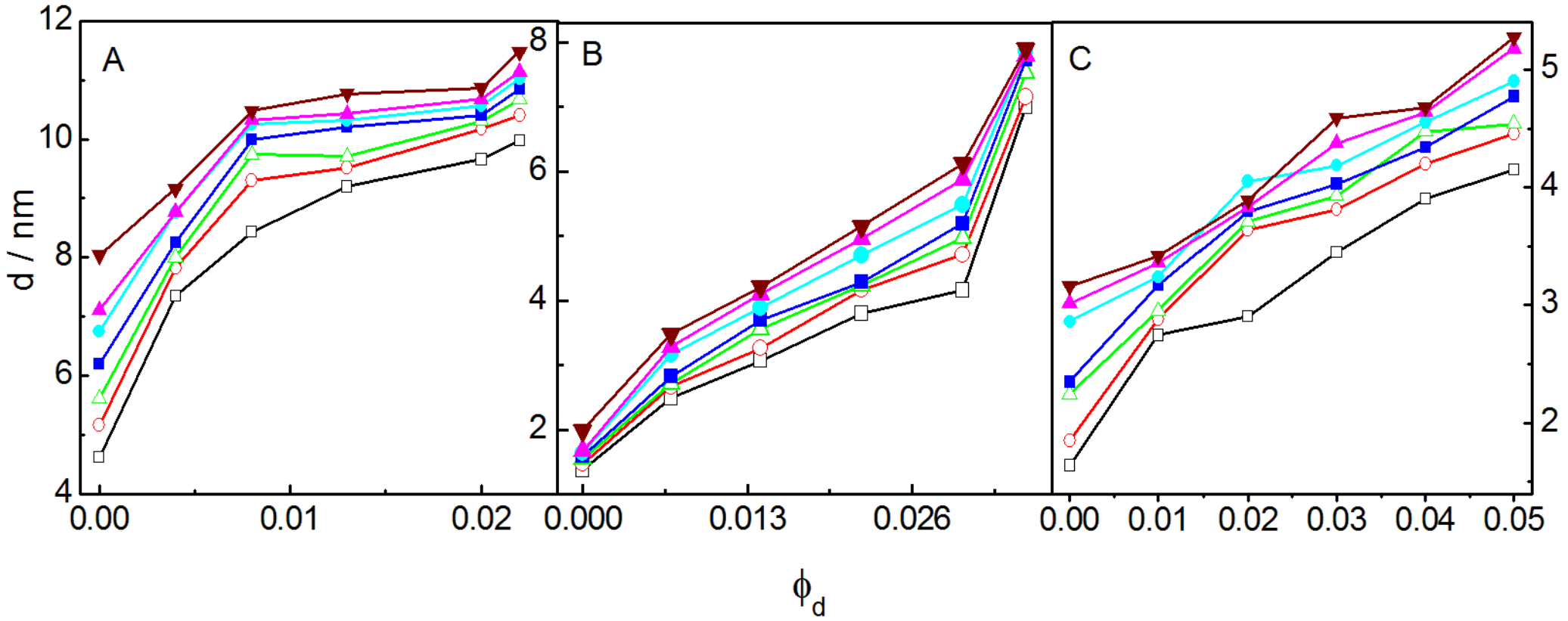

Figure S3. Variation in size (d) of [$b_4$mpy][BF_4]/(Tween-20+n-pentanol)/n-heptane IL-in-oil microemulsion systems with the volume fraction (φ_d) of IL. Tween 20/n-pentanol ratio (w/w): A, 1:0.5; B, 1:1 and C, 1:2. Temp. (K): □, 293; O, 298; Δ, 303; ■, 308; ●, 313; ▲, 318 and ▼, 323.

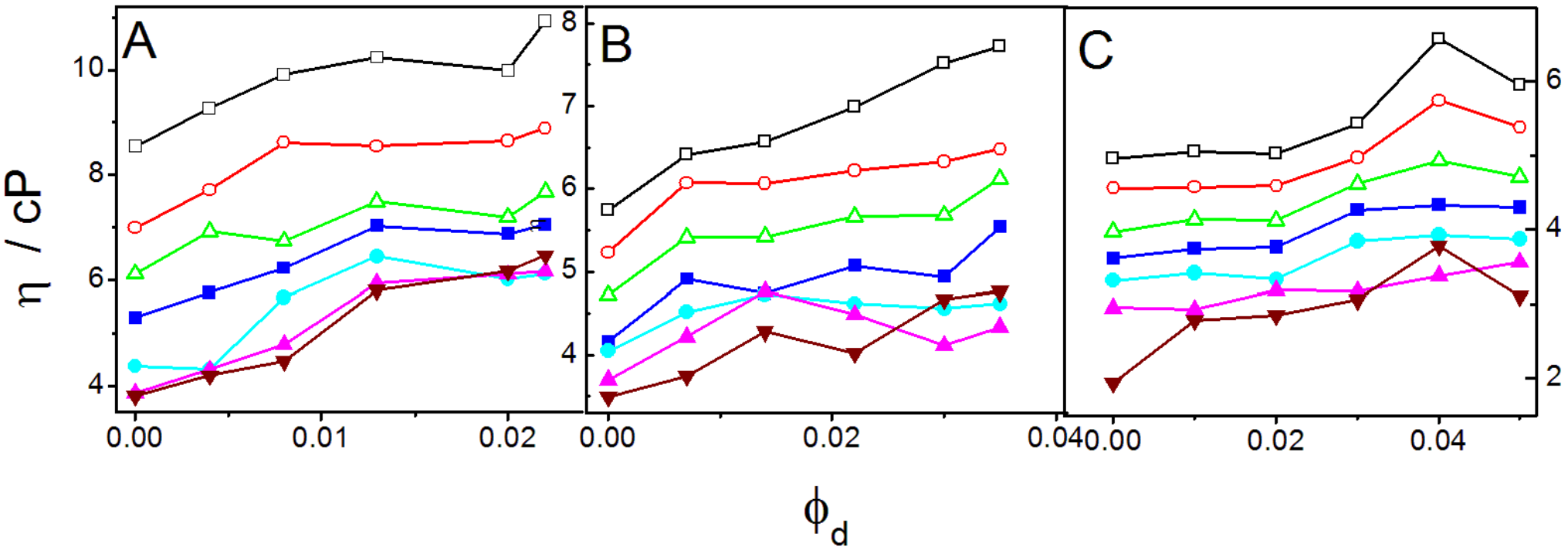

Figure S4. Variation in viscosity (η) of [$b_4$mpy][BF_4]/(Tween-20+n-pentanol)/n-heptane IL-in-oil microemulsion with the volume fraction (φ_d) of IL. Tween 20/n-pentanol ratio (w/w): A, 1:0.5; B, 1:1 and C, 1:2. Temp. (K): □, 293; O, 298; Δ, 303; ■, 308; ●, 313; ▲, 318 and ▼, 323.