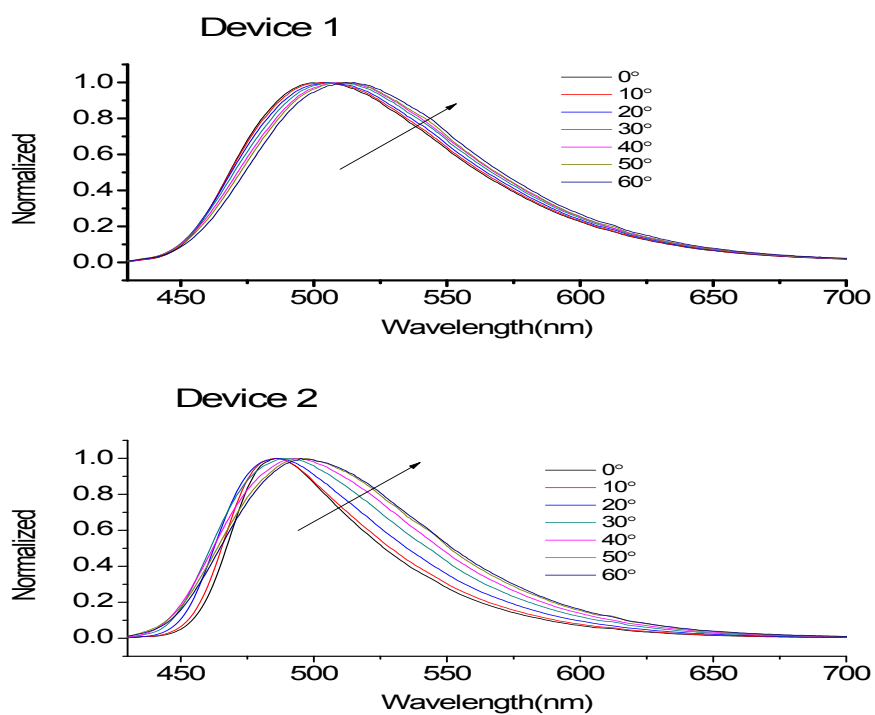
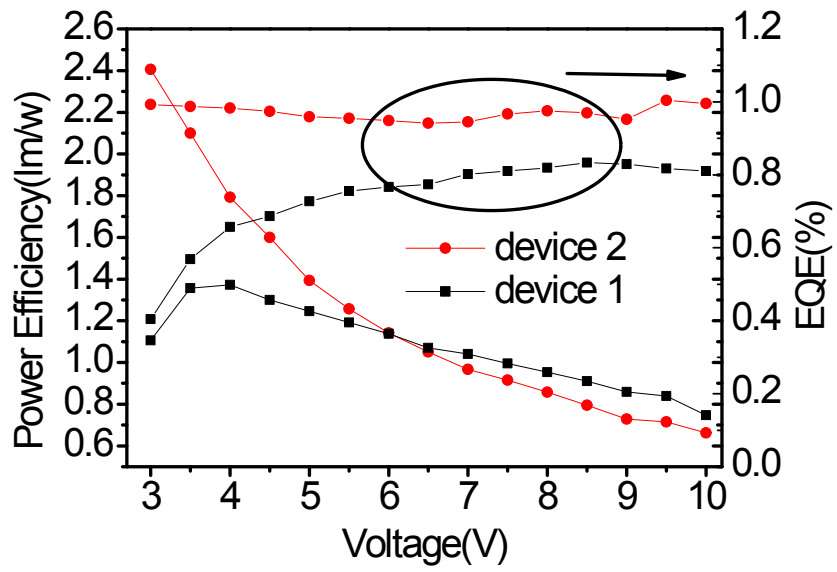


S1. left photo: Glass/Alq₃(50nm,untreated)/Al(100nm) right photo: Glass/Alq₃(50nm,vapor treated)/Al(100nm)

Depositing 100nm aluminum on untreated 50nm Alq₃, it's forming the aluminum mirror, but on vapor treated Alq₃ film, the film exhibits a milky appearance, and light can be scattered by the corrugated aluminum surface.



S2. Normalized angular EL spectrum of device 1 and device 2



S3. The power efficiency and EQE of device 1 and device 2