

Supporting Information

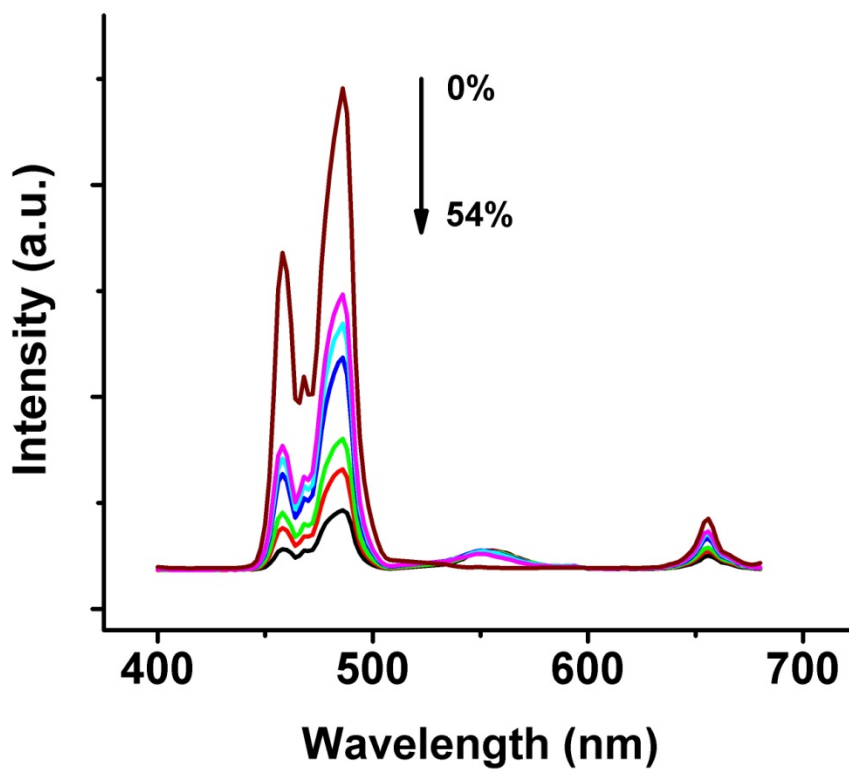


Figure S1 Origin FRET spectra with different concentrations of QDs of the mixture solution



Figure S2 The photograph of the complex of UCNPs and QDs (The concentration of the QDs is 54%).

Ions	Mg ²⁺	Ca ²⁺ ,	Fe ²⁺	K ⁺	Na ⁺	Cl ⁻	Zn ²⁺	Cu ²⁺	Ni ²⁺ ,	Co ²⁺
Selectivity coefficients	0.058	0.096	0.024	0.026	0.035	0.035	0.039	0.091	0.151	0.159

Table S1 The selectivity coefficients of the interference ions.