

Fig. S1. TEM images and histograms of diameters of the InAs QDs (A and B, average diameter 5.9nm) and the CSS QDs (C and D, average diameter 6.7 nm) of sample A.



Fig. S2. TEM images and histograms of diameters of the InAs QDs (A and B, average diameter 4.9nm) and the CSS QDs (C and D, average diameter 5.7nm) of sample B.



Fig. S3. Absorption and emission spectra of sample A (A) and sample B (B).



Fig. S4. Fluorescent lifetime measurements for InAs QDs (Blue) and CSS (Black) for sample A (A) and B (B). Sample A exhibits a 1/e decay time of 59ns and sample B 48ns.