

Supporting Information

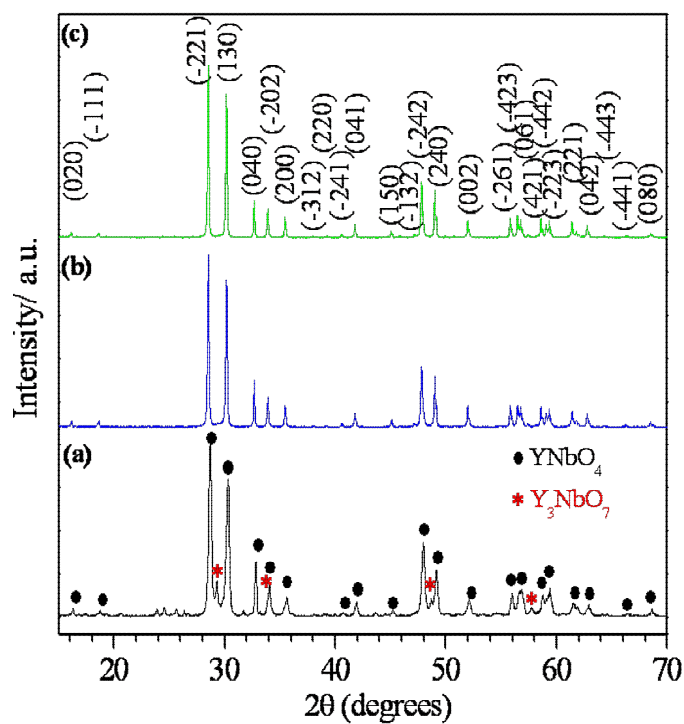


Fig. S1 Powder XRD patterns of **a)** YNbO_4 , calcined at 1473 K for 2h, **b)** YNbO_4 , calcined at 1623 K for 2h, and **c)** $\text{Y}_{0.977}\text{Yb}_{0.02}\text{Er}_{0.003}\text{NbO}_4$, calcined at 1623 K for 2h.

Table S1 Elemental analysis of $\text{Y}_{0.977}\text{Yb}_{0.02}\text{Er}_{0.003}\text{NbO}_4$ phosphor

Element	Atomic %		Deviation
	Calculated	Observed	
Yttrium (Y)	16.28	15.08	-1.20
Ytterbium (Yb)	0.33	0.46	+0.13
Erbium (Er)	0.05	0.14	+0.09
Niobium (Nb)	16.66	15.25	-1.41
Oxygen (O)	66.67	69.11	+2.44