

Supporting Information

**NIR-to-NIR and NIR-to-Blue Light Upconversion
in Stoichiometric $\text{NaYb}(\text{MO}_4)_2$ ($\text{M} = \text{Mo, W}$)**

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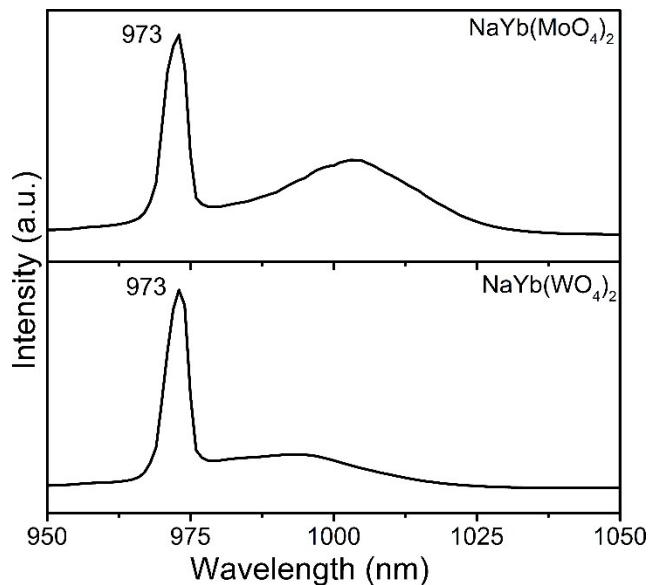


Figure S1. Downconversion luminescence spectra of $\text{NaYb}(\text{MoO}_4)_2$ and $\text{NaYb}(\text{WO}_4)_2$ under 973 nm excitation (650 mW).

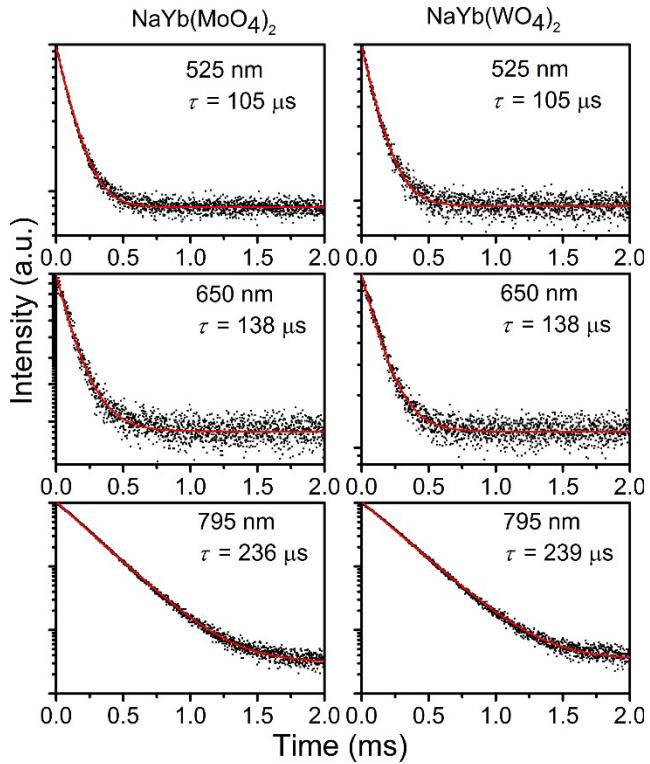


Figure S2. Decay curves of the 525 ($\text{Er}^{3+}: 2H_{11/2} \rightarrow 4I_{15/2}$), 650 ($\text{Er}^{3+}: 4F_{9/2} \rightarrow 4I_{15/2}$), and 795 nm ($\text{Tm}^{3+}: ^3H_4 \rightarrow ^3H_6$) emissions of $\text{NaYb}(\text{MoO}_4)_2$ (left panel) and $\text{NaYb}(\text{WO}_4)_2$ (right panel) under 973 nm excitation (650 mW). Monoexponential fits are depicted as solid red lines; the corresponding lifetimes τ are given.