Supplementary Information

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Sn-doped defect pyrochlore oxide $KNbWO_6 \cdot H_2O$ micro-crystals and its photocatalytic reduction of CO_2

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Fig. S1. Partial enlarged graph of XRD patterns shows the shift of (311) and (222) reflection peak position.

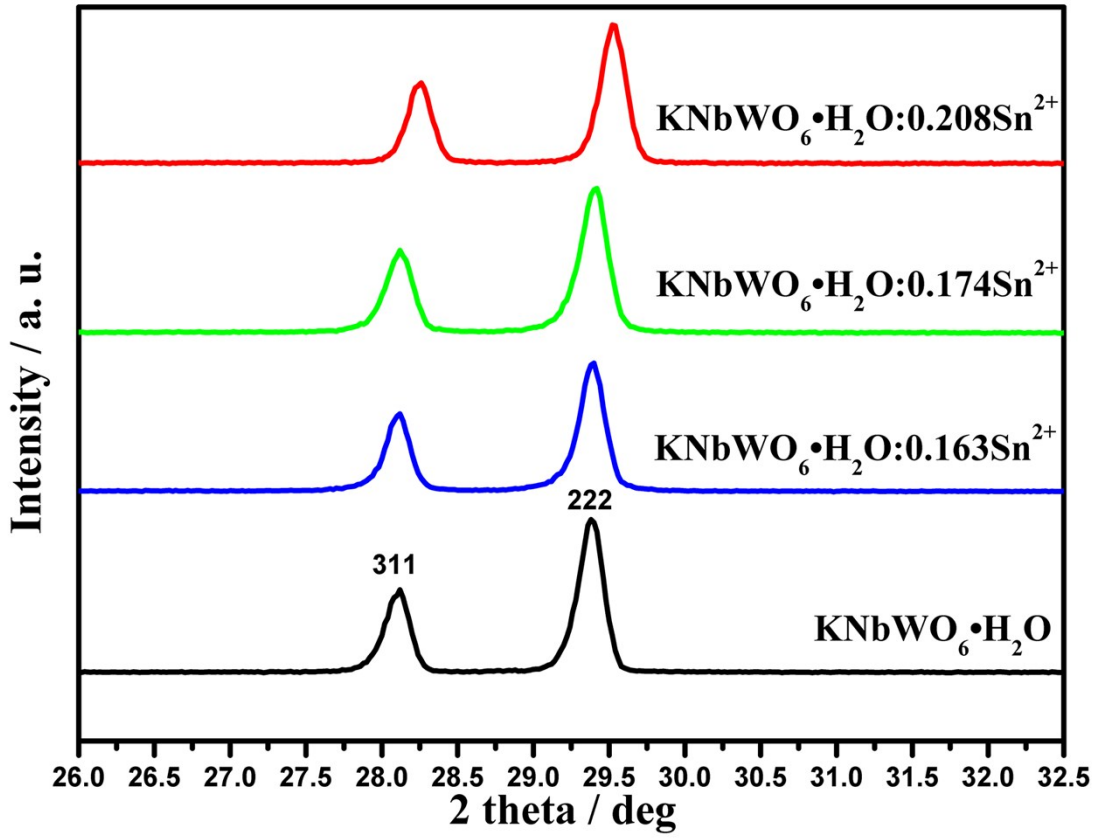

Fig. S2. m/z values for $^{13}CH_4$ after photocatalytic reduction of isotopic $^{13}CO_2$ by GC-7890B/MS5977A (America Aligent) under UV-visible light irradiation for 8 h.

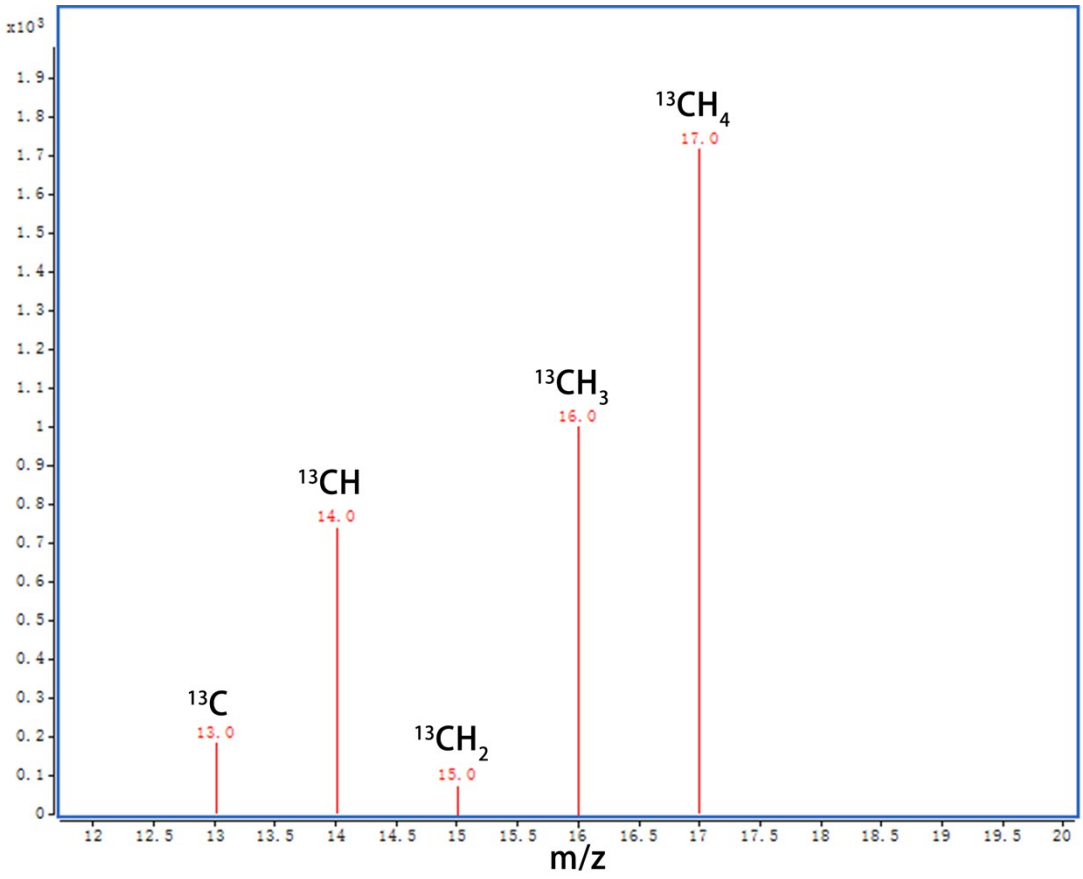

Fig. S3. SS-SPS responses of $KNbWO_6 \cdot H_2O$ and $KNbWO_6 \cdot H_2O$:0.208Sn^{2+}

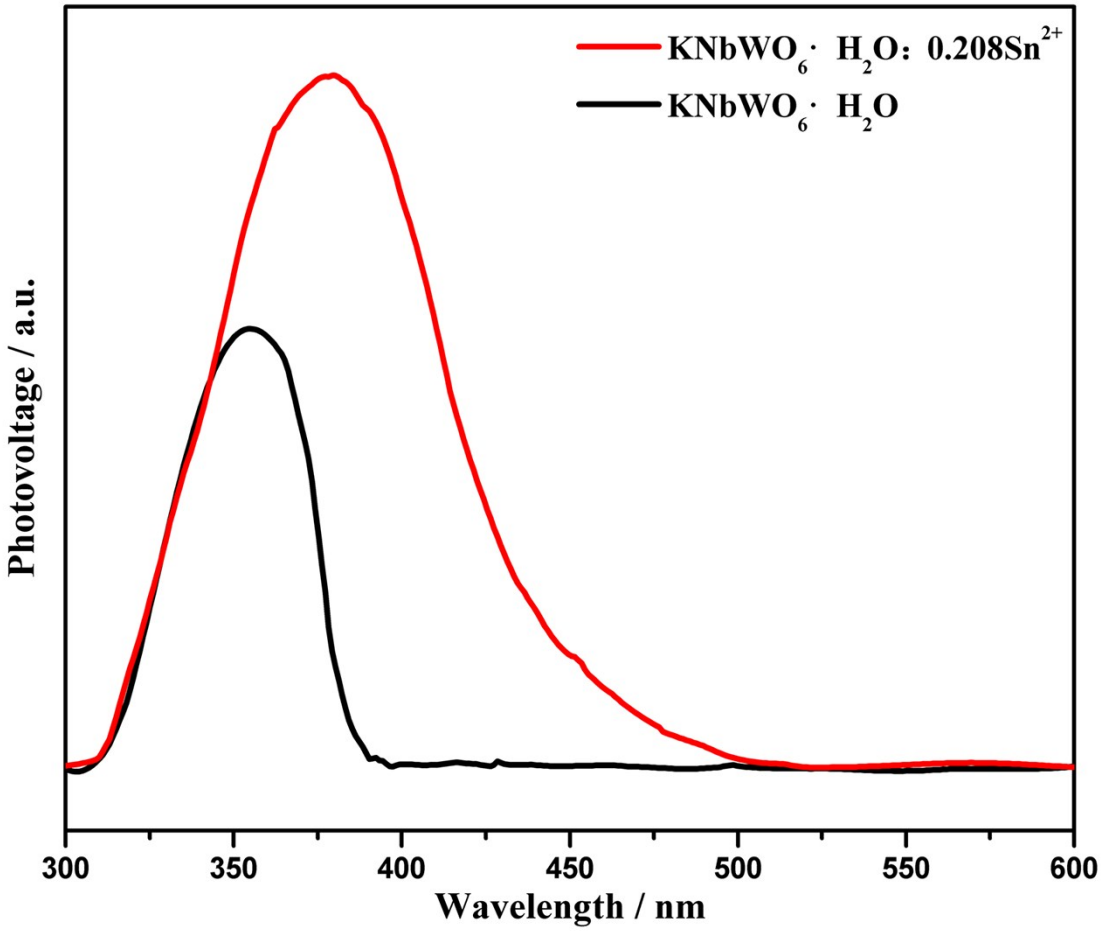

Fig. S4. N_2 adsorption-desorption isotherms of $KNbWO_6 \cdot H_2O$ and $KNbWO_6 \cdot H_2O$:0.208Sn^{2+}