Electronic Supplementary Material (ESI) for Inorganic Chemistry Frontiers.

Supporting Information

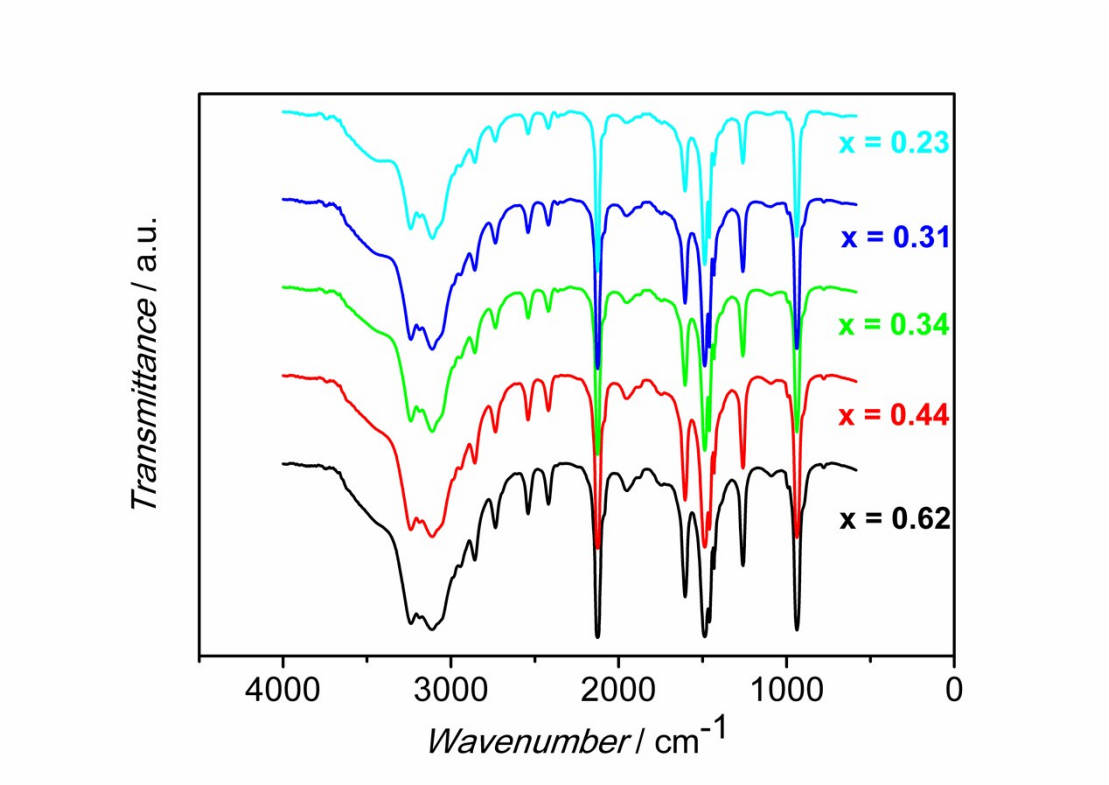

Figure S1. IR spectra of $(MA)_2[K_{1-x}Rb_xCo(CN)_6]$ (x = 0.23−0.62).

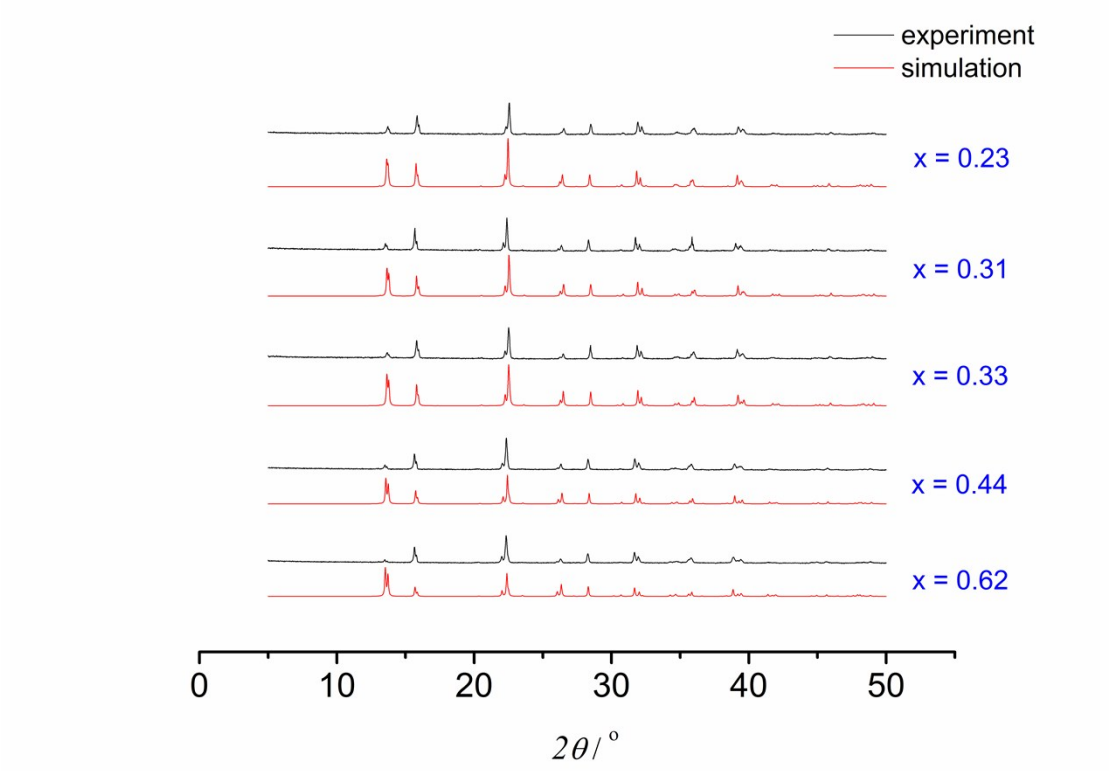

Figure S2. PXRD patterns of $(MA)_2[K_{1-x}Rb_xCo(CN)_6]$ (x = 0.23−0.62).

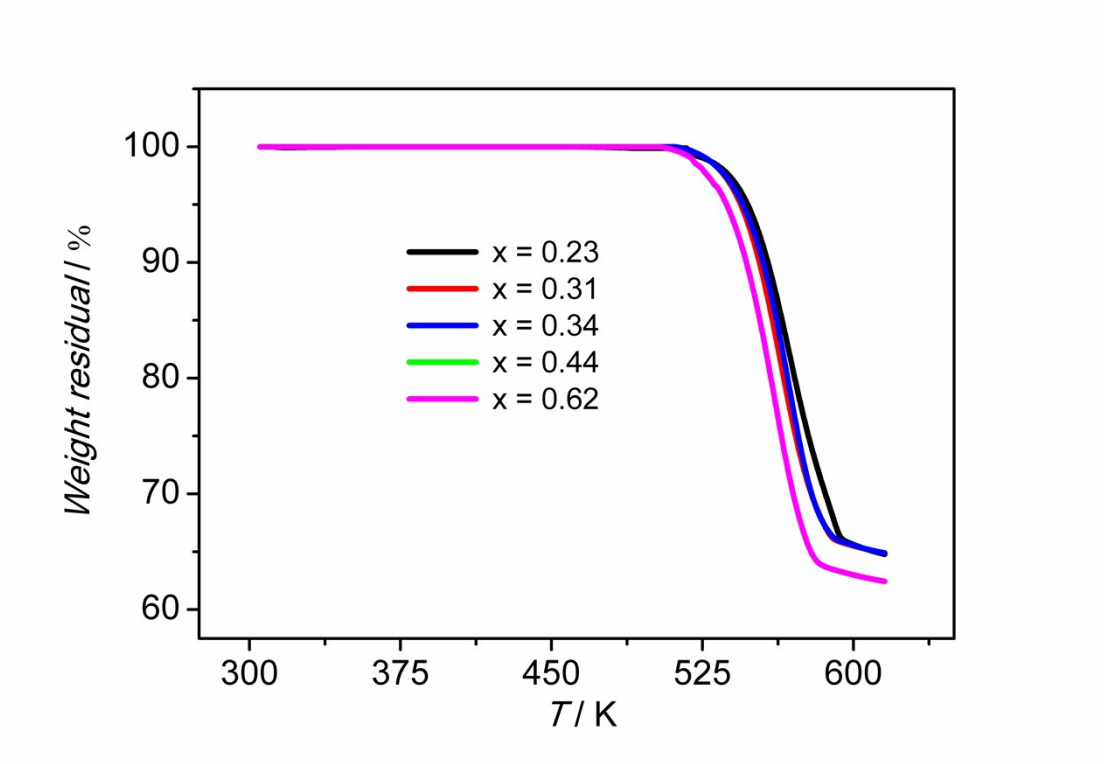

Figure S3. TGA curves of $(MA)_2[K_{1-x}Rb_xCo(CN)_6]$ (x = 0.23−0.62).

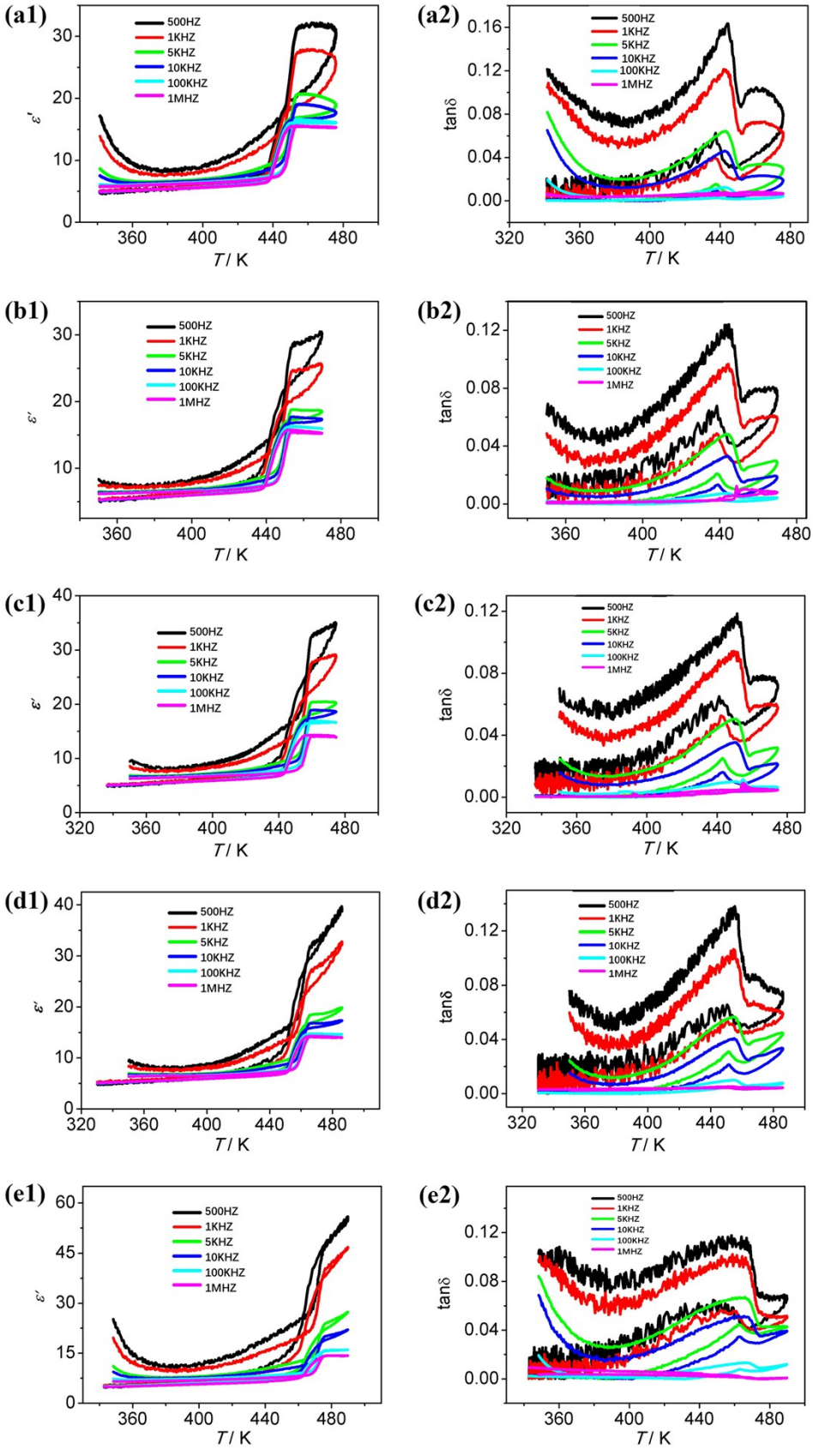

Figure S4. The ε' vs T (left) and $tan\delta$ vs T (right) curves of $(MA)_2[K_{1-x}Rb_xCo(CN)_6]$

at different frequencies measured in a heating/cooling mode: (a) x = 0.23; (b) x = 0.31; (c) x = 0.34; (d) x = 0.44; (e) x = 0.62.

Table S1. (a) Experimental data of the x and corresponding T_c and (b) calculated tolerance factor t for $(MA)_2[K_{1-x}Rb_xCo(CN)_6]$.

(a)

T_c / K	418	433	438	440	446	458	484
x	0	0.23	0.31	0.34	0.44	0.62	1

The relationship between the T_c and x is fitted by $x = -13.2+0.645T_c^{1/2}$ (R = 0.987) by using r_K = 152 pm, r_{Rb} = 166 pm and $r_{B'} = (1-x)r_K + xr_{Rb}$.

(b)

x	0	0.23	0.31	0.34	0.44	0.62	1
t	0.833	0.828	0.827	0.826	0.825	0.821	0.814

The tolerance factor t is calculated by $t = 513/(14x+616)$.