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Figure S1. X-ray powder diffraction data for (a) $Bi_{0.95}Ba_{0.05}FeO_{2.975}$ and $BiFeO_3$ and (b) as sintered and N_2 annealed $Bi_{0.95}Ba_{0.05}FeO_{2.975}$ of crushed ceramics.



Figure S2. SEM secondary electron images for unpolished surface of Bi_{0.95}Ba_{0.05}FeO_{2.975}.



Figure S3. Relative density of BiFeO₃, $Bi_{1-x}Ba_xFeO_{3-x/2}$, $Bi_{1-x}Sr_xFeO_{3-x/2}$ and $Bi_{1-x}Ca_xFeO_{3-x/2}$ ceramics.