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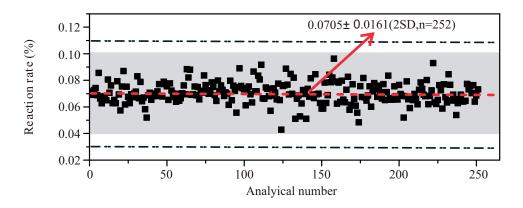


Figure S2 The long-term reaction rates (reacted/unreacted fractions) of $^{256}Zr^{2+}$ The Zr reaction rates were calculated by by multiplication of secondary ionization yield of Zr (~1.4%) and $^{96}Zr(^{14}N^{1}H)_{2}(^{14}N^{1}H)_{3})_{8}^{2+}$ reaction rate (~5.2%)