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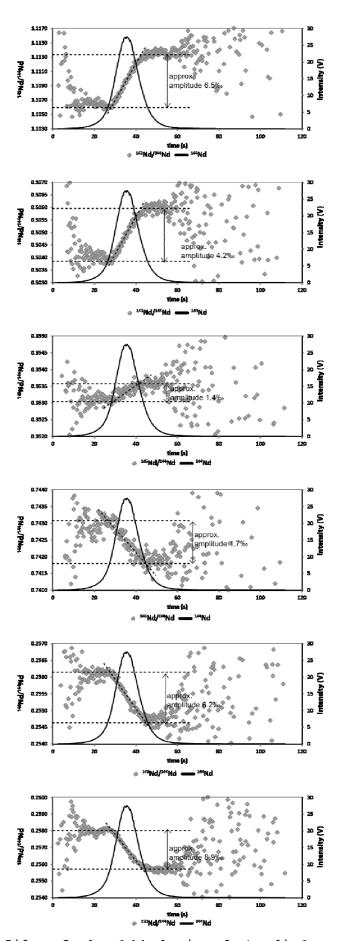


Figure S1: Elution profile of the 144Nd signal (JNdi-1 standard solution) by LC-MC-ICPMS in gradient mode (integration time $0.262~\rm s$) and uncorrected $14 \rm xNd/144Nd$ isotope ratios across the transient signals. The approximate amplitude of the drift was estimated by the variation of isotope ratios between the two horizontal lines.

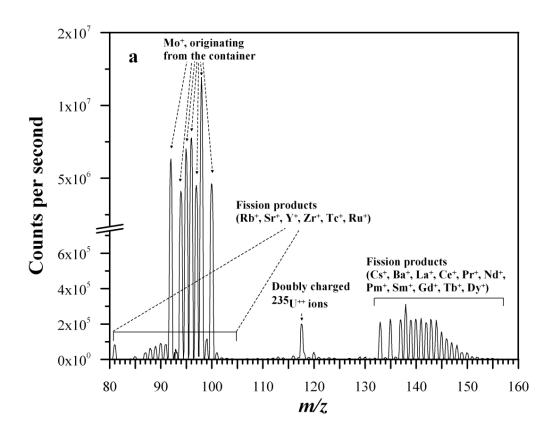


Figure S2: Mass spectrum by Q-ICP-MS of the 235U target sample between 80 and 160 amu.

Mo is a fission product element but its presence was essentially due to the 2% of Mo present in the steel container incorporating the 235U target.