Table 1

Q values, half-lives $T_{1/2}$, and mass excesses Δ obtained in the present study compared to the literature values.

Quantity	This work	AME2016 [31,38,39]	Other studies	
$Q_p(^{108}\mathrm{I})$ (keV)	597(13)	600(110)	$\geq$240	[19]
			$\lesssim$600	[26]
$Q_p(^{104}\mathrm{Sb})$ (keV)	510(20)	510(100)	$\geq$150	[19]
			$\leq$520	[19]
			$\lesssim$550	[26]
$Q_\alpha(^{108}\mathrm{I})$ (keV)	4097(10)	4100(50)	4099(5)	[26]
$Q_\alpha(^{107}\mathrm{Te})$ (keV)	4007(10)	4008(5)	3982(16)	[40]
			4012(10)	[32]
$Q_\alpha(^{112}\mathrm{Cs})$ (keV)	3940(20)	3930(120)	$\geq$3830	[19]
			$\leq$4210	[19]
			$\lesssim$3940	[29]
$T_{1/2}(^{107}\mathrm{Te})$ (ms)	3.6(2)	3.1(1)	$3.6^{+0.6}_{-0.4}$	[40]
			3.1(1)	[29]
$T_{1/2}(^{108}\mathrm{I})$ (ms)	26.4(8)	36(6)	36(6)	[29]
$\Delta(^{104}\mathrm{Sb})$ (MeV)	-59.17(8)	-59.17(12)		
$\Delta(^{108}\mathrm{I})$ (MeV)	-52.65(8)	-52.65(13)		