

Table 6a
Plutonium Isotope Ratio Measurements in Pu and U/Pu Materials (DA)

Material	Isotope Amount Ratios	Typical Value for Ratio (*100)	Method		
			TIMS, MC-ICPMS ^{1/}		ITV
			(% rel., k=1)		(% rel., k=1)
			u(r)	u(s)	u(c)
High-Burnup Pu	$^{238}\text{Pu}/^{239}\text{Pu}$	1.7	1.5	1	1.8
	$^{240}\text{Pu}/^{239}\text{Pu}$	43	0.1	0.05	0.11
	$^{241}\text{Pu}/^{239}\text{Pu}$	13	0.2	0.2	0.28
	$^{242}\text{Pu}/^{239}\text{Pu}$	8	0.2	0.3	0.36
Low-Burnup Pu	$^{238}\text{Pu}/^{239}\text{Pu}$	0.02	10	10	14.1
	$^{240}\text{Pu}/^{239}\text{Pu}$	6	0.15	0.1	0.18
	$^{241}\text{Pu}/^{239}\text{Pu}$	0.2	1	1	1.4
	$^{242}\text{Pu}/^{239}\text{Pu}$	0.05	2	2	2.8

^{1/} $^{238}\text{Pu}/^{239}\text{Pu}$ by alpha spectrometry/mass spectrometry combination and chemical separation before mass spectrometric measurements.