

Table 1

Major elements in the samples (in oxide percent)

Element	Misasa granite	Badgastein granite
Na ₂ O	3.59	0.07
MgO	1.03	0.55
Al ₂ O ₃	14.1	12.6
SiO ₂	54.6	75.4
K ₂ O	2.96	4.76
CaO	2.29	0.83
TiO ₂	0.43	0.20
MnO	0.29	0.03
Fe ₂ O ₃	4.53	2.63
U ₃ O ₈	Not detectable	0.14

Table 2

Radioactivity concentration of ^{226}Ra , ^{232}Th and ^{40}K , radon mass exhalation rate and emanation fraction of the samples

Sample	^{226}Ra (Bq kg ⁻¹)	^{232}Th (Bq kg ⁻¹)	$^{232}\text{Th}/^{226}\text{Ra}$ (%)	^{40}K (Bq kg ⁻¹)	Radon mass exhalation rate ($\mu\text{Bq kg}^{-1} \text{ s}^{-1}$)	Radon emanation fraction (%)
Misasa granite	895±50	21±2	2.3±0.3	779±14	546±0	28.5±0.5
Badgastein granite	7064±325	64±15	0.9±0.2	1169±18	288±9	2.1±0.1