

TABLE 2. Comparison of the activities of ^{238}U , ^{232}Th , and radon emanation coefficients in different size fractions determined in this study with the values reported in literature^a

Mineral	Locality	Estimated age (MA)	Size fraction (μm)	U-238 (Bq/g)	Th-232 (Bq/g)	Radon emanation coefficient (%)	Reference
Uraninite	Wilberforce, Ontario	1000 ± 200	<63	5829 ± 69	376.73 ± 7.32	0.53 ± 0.01	Garver et al. 2004
			1000–2000			0.53 ± 0.01	
	Oklo, Gabon	1968 ± 50	bulk	9465 ± 216	5.1 ± 2	0.000049	Malczewski et al. 2015
	NA	NA	NA	6550	NA	1.9	Rama 1990a
	Bancroft, Ontario	ca. 1150	125–250	6487 ± 49	446 ± 3	0.18 ± 0.001	This study
	Malawi, Africa	730 ± 20	125–250	8.87 ± 0.07	4.13 ± 0.1	2.21 ± 0.23	Eakin et al. 2016
			125–250			0.37 ± 0.02	This study
Zircon	Bancroft, Ontario	1050 ± 12	125–250	80.27 ± 0.58	39.58 ± 0.87	2.11 ± 0.35	Eakin et al. 2016
			125–250			0.19 ± 0.01	This study
	Mud Tank, Australia	732 ± 5	125–250	0.388 ± 0.008	0.235 ± 0.027	1.76 ± 0.64	Eakin et al. 2016
			125–250			0.38 ± 0.2	This study
	Goias, Brazil	2900 ± 200	<63	50.1 ± 0.5	4.6 ± 0.1	1.04 ± 0.01	Garver et al. 2004
			1000–2000			0.47 ± 0.01	
	NA	NA	NA	3.831 ± 2.986	NA	0.01 ± 0.00	Rama 1990a
Thorite	Tory Hill, Ontario	1000 ± 200	<63	104 ± 2	869 ± 9	5.38 ± 0.08	Garver et al. 2004
			bulk	120 ± 9	1054 ± 22	0.077	Malczewski et al. 2015
	Cardiff Twp, Canada	1250 - 1340					
	Bancroft, Ontario	ca. 1150	125–250	121 ± 1	776 ± 5	0.60 ± 0.01	This study
Apatite	NA	NA	<5000	0.25 – 0.095	NA	0.5–25	Rama 1990a
	NA	NA	NA	NA	NA	0.8	
	Bancroft, Ontario	1200	<125	0.64 ± 0.01	1.08 ± 0.01	5.4 ± 0.11	This study
Hornblende	NA	NA	212–425	0.0106 ± 0.0005	NA	3.42 ± 0.38	Krishnaswami and Seidemann 1988
	Bancroft, Ontario	1200	<125	1.52 ± 0.01	0.308 ± 0.006	0.90 ± 0.03	This study
	Austria	NA	250–500	0.800 ± 0.03	NA	4.6 ± 0.5	Sakoda et al. 2010
Quartz	Bancroft, Ontario	1200	<125	0.0177 ± 0.0005	BDL	3.8 ± 0.46	This study

Note: NA = Not available.

^aSakoda et al. 2011; Nazaroff 1992.