

Table. Ion microprobe age data from Domain 1 monazite grains.

Sample ^a (monazite_spot)	Age Ma (±σ)	ThO ₂ ⁺ /Th ⁺ ^b (±σ)	Standard ^c ThO ₂ ⁺ /Th ⁺ (±σ)	²⁰⁸ Pb* (%) ^d (±σ)	²⁰⁸ Pb*/Th ⁺ ^e (±σ)
MA11					
1_1	51.4 (5.2)	3.143 (0.024)	3.856 (0.132)	97.8 (0.5)	2.546E-03 (2.604E-04)
3_1	46.6 (4.4)	3.160 (0.023)		97.2 (0.6)	2.307E-03 (2.206E-04)
5_1	28.9 (1.6)	3.365 (0.015)		96.2 (0.8)	1.431E-03 (7.765E-05)
6_1	37.6 (3.8)	3.136 (0.026)		96.1 (1.0)	1.861E-03 (1.890E-04)
MA15					
1_1	22.4 (0.6)	3.779 (0.009)	3.844 (0.060)	94.1 (0.7)	1.107E-03 (2.860E-05)
2_1	23.1 (0.9)	3.797 (0.014)		91.5 (0.9)	1.143E-03 (4.644E-05)
2_2	24.2 (0.8)	3.783 (0.021)		92.8 (0.7)	1.197E-03 (3.922E-05)
3_1	33.1 (4.8)	3.468 (0.014)		93.6 (0.9)	1.641E-03 (2.381E-04)
6_1	33.8 (5.0)	3.462 (0.015)		90.8 (1.0)	1.675E-03 (2.457E-04)
7_1	34.8 (6.3)	3.455 (0.017)		92.5 (0.8)	1.725E-03 (3.120E-04)
7_2	37.5 (7.9)	3.364 (0.016)		92.5 (0.8)	1.858E-03 (3.904E-04)
8_1	27.5 (1.7)	3.690 (0.015)		92.6 (0.8)	1.363E-03 (8.557E-05)
MA18					
1_1	23.2 (0.5)	2.641 (0.014)	3.600 (0.241)	86.6 (1.1)	1.146E-03 (2.617E-05)
2_1	14.1 (0.6)	2.015 (0.010)		91.1 (1.1)	6.995E-04 (2.910E-05)
3_1	18.7 (0.2)	3.138 (0.009)		96.1 (0.5)	9.276E-04 (8.955E-06)
4_1	36.5 (0.3)	3.202 (0.010)		98.2 (0.2)	1.807E-03 (1.412E-05)
5_1	19.5 (0.3)	3.121 (0.008)		93.7 (0.7)	9.653E-04 (1.247E-05)
6_1	28.6 (0.9)	2.702 (0.033)		92.4 (0.8)	1.414E-03 (4.416E-05)
MA19					
1_1	20.7 (1.9)	3.177 (0.014)	3.883 (0.127)	81.7 (1.4)	1.025E-03 (9.404E-05)
1_2	20.8 (1.4)	3.348 (0.017)		75.0 (2.4)	1.027E-03 (6.904E-05)
1_3	18.6 (0.5)	3.678 (0.029)		93.2 (1.2)	9.200E-04 (2.701E-05)
2_1	23.9 (2.0)	3.220 (0.016)		76.1 (1.8)	1.185E-03 (1.006E-04)
3_1	24.9 (2.6)	3.124 (0.016)		73.5 (2.1)	1.233E-03 (1.310E-04)
3_2	18.8 (0.7)	3.622 (0.024)		87.3 (1.8)	9.314E-04 (3.445E-05)
5_1	17.1 (0.7)	3.669 (0.018)		73.9 (2.4)	8.470E-04 (3.563E-05)
5_2	19.3 (0.7)	3.544 (0.017)		94.9 (1.0)	9.530E-04 (3.593E-05)
MA25					
1_1	16.8 (0.9)	3.288 (0.013)	2.782 (0.700)	89.6 (1.8)	8.326E-04 (4.676E-05)
1_2	14.7 (1.0)	2.929 (0.010)		89.4 (1.9)	7.263E-04 (5.097E-05)
2_1	14.8 (1.1)	2.870 (0.012)		90.5 (1.8)	7.341E-04 (5.290E-05)
3_1	10.8 (1.8)	2.877 (0.027)		38.2 (5.9)	5.340E-04 (9.156E-05)
4_1	15.8 (0.9)	3.236 (0.012)		90.2 (1.6)	7.810E-04 (4.466E-05)
4_2	10.7 (0.9)	2.839 (0.013)		65.9 (3.3)	5.271E-04 (4.580E-05)
5_1	15.9 (0.9)	3.213 (0.017)		88.9 (1.7)	7.850E-04 (4.620E-05)
MA45					
1_1	28.3 (0.2)	6.244 (0.018)	6.272 (0.185)	97.7 (0.4)	1.401E-03 (9.098E-06)
1_2	27.6 (0.3)	5.703 (0.023)		97.7 (0.4)	1.366E-03 (1.255E-05)
1_3	20.5 (0.1)	6.497 (0.017)		96.8 (0.5)	1.012E-03 (7.006E-06)
1_4	27.9 (0.2)	5.790 (0.013)		97.4 (0.3)	1.380E-03 (1.038E-05)
1_5	29.4 (0.2)	5.654 (0.016)		97.6 (0.3)	1.458E-03 (1.176E-05)
2_1 ^f	37.5 (0.3)	6.493 (0.025)		97.7 (0.5)	1.859E-03 (1.429E-05)
2_2 ^f	30.4 (0.5)	7.107 (0.047)		96.6 (0.9)	1.507E-03 (2.557E-05)
4_1	11.0 (0.4)	6.065 (0.023)		72.2 (2.8)	5.425E-04 (2.187E-05)
4_2	11.4 (0.2)	5.596 (0.014)		85.6 (1.4)	5.652E-04 (1.065E-05)
MA48					
30_1 ^f	29.2 (0.5)	3.192 (0.016)	3.476 (0.310)	88.0 (1.3)	1.444E-03 (2.643E-05)
30_2 ^f	26.1 (0.6)	3.702 (0.026)		94.6 (1.1)	1.294E-03 (2.855E-05)
31_1 ^f	18.5 (0.5)	3.935 (0.020)		92.5 (2.0)	9.144E-04 (2.450E-05)
31_2 ^f	6.3 (0.3)	3.345 (0.011)		84.9 (2.9)	3.129E-04 (1.333E-05)

a. Nomenclature indicates the grain and spot, respectively, of the analyzed monazite. Sample name is indicated in bold. See Figure 3 for locations. See Table 2 for a summary of the age data.

b. Measured ratio in sample.

c. Measured ratio of the standard grains.

d. The % ²⁰⁸Pb* is the percent radiogenically derived ²⁰⁸Pb.

e. Corrected sample ratio assuming ²⁰⁸Pb/²⁰⁴Pb=39.5 $\pm$ 0.1 [Stacey and Kramers, 1975].

f. Monazite inclusion in garnet.