

Supplementary Table 2

Table S2. Trace and rare earth elements (ppm) compositions of the representative high-pressure granulites analyzed in the present study.

Sample	Lg-0-01	Lg-0-2	Lg-1-1	Lg-1-2	Lg-1-3	Lg-1-5	Lg-1-6	Lg-2-1	Lg-6-1	Lg-6-2	Lg-6-04
Lithology	garnet pyroxenite				garnet two-pyroxene granulite				garnet-bearing-plagioclase amphibolite		
La	21.00	19.99	13.39	8.37	9.92	10.46	12.39	12.39	17.20	17.02	16.80
Ce	47.20	45.90	28.07	19.68	22.66	24.07	29.20	26.05	37.10	38.05	35.60
Pr	7.00	7.19	4.31	3.22	3.73	4.16	4.82	4.62	5.70	5.85	4.90
Nd	27.40	28.40	17.37	14.13	15.91	17.97	20.46	19.34	22.69	23.22	18.40
Sm	5.60	6.82	4.92	4.78	4.35	4.80	5.20	5.00	5.43	5.64	4.30
Eu	1.80	2.16	1.76	1.74	1.52	1.74	1.71	1.75	1.63	1.73	1.50
Gd	5.20	7.46	6.97	6.67	5.34	5.07	5.48	5.07	5.53	5.81	4.80
Tb	0.90	1.60	1.69	1.62	1.24	1.05	1.14	1.04	1.12	1.18	1.10
Dy	5.80	11.31	12.49	11.67	9.09	7.46	8.12	7.46	7.92	8.21	7.60
Ho	1.10	2.32	2.53	2.29	1.85	1.53	1.67	1.55	1.63	1.69	1.60
Er	3.30	6.81	7.30	6.58	5.39	4.51	4.89	4.60	4.83	5.02	4.70
Tm	0.50	1.13	1.20	1.08	0.90	0.74	0.81	0.77	0.80	0.83	0.80
Yb	3.40	7.23	7.57	6.91	5.76	4.82	5.22	4.90	5.16	5.38	5.10
Lu	1.10	1.23	1.27	1.16	0.98	0.82	0.89	0.84	0.88	0.92	0.80
Y	29.10	58.03	62.90	56.84	45.63	37.03	40.92	38.18	40.13	41.41	41.00
REE	131.30	149.55	110.85	89.89	88.64	89.21	102.00	95.37	117.63	120.56	108.00
LREE	110.00	110.47	69.82	51.92	58.09	63.20	73.77	69.14	89.75	91.51	81.50
HREE	21.30	39.08	41.02	37.97	30.54	26.01	28.23	26.23	27.87	29.05	26.50
LREE/HREE	5.16	2.83	1.70	1.37	1.90	2.43	2.61	2.64	3.22	3.15	3.08
δEu	1.00	0.92	0.92	0.94	0.96	1.07	0.97	1.05	0.90	0.92	1.01
(La/Yb) _N	4.16	1.86	1.19	0.82	1.16	1.46	1.60	1.70	2.25	2.13	2.22
(La/Sm) _N	67.74	64.49	43.18	26.99	31.99	33.73	39.95	39.96	55.49	54.92	54.19
Rb	20.70	44.90	10.84	7.41	9.05	6.76	7.20	9.38	21.57	26.89	40.20
Ba	152.50	331.10	86.01	83.08	41.13	55.55	42.55	41.96	233.43	232.35	207.00
Th	1.50	2.20	1.62	1.33	1.04	0.97	1.16	1.97	2.05	2.24	3.70
U	1.00	0.50	1.69	2.54	0.92	0.54	0.45	1.32	0.66	0.61	1.20
Ta	0.50	0.40	1.61	3.07	0.58	0.42	0.44	0.51	0.46	0.49	0.90
Nb	8.50	6.90	13.73	24.24	7.52	5.69	6.11	6.01	6.42	6.74	11.10
La	21.00	19.99	13.39	8.37	9.92	10.46	12.39	12.39	17.20	17.02	16.80
Ce	47.20	45.90	28.07	19.68	22.66	24.07	29.20	26.05	37.10	38.05	35.60
Sr	370.60	283.60	34.63	34.39	73.27	109.23	61.73	86.06	186.44	145.65	192.70
Nd	27.40	28.40	17.37	14.13	15.91	17.97	20.46	19.34	22.69	23.22	18.40
Hf	1.60	2.40	3.19	4.11	2.80	2.25	2.07	2.40	2.69	2.83	3.10
Zr	91.30	145.40	111.10	145.07	94.21	72.74	64.76	78.60	85.74	90.30	193.80
Sm	5.60	6.82	4.92	4.78	4.35	4.80	5.20	5.00	5.43	5.64	4.30
Tb	0.90	1.60	1.69	1.62	1.24	1.05	1.14	1.04	1.12	1.18	1.10
Y	29.10	58.03	62.90	56.84	45.63	37.03	40.92	38.18	40.13	41.41	41.00