



*Supplement of*

**First in situ Lu–Hf garnet date for a lithium–caesium–tantalum (LCT) pegmatite from the Kietyönmäki Li deposit, Somero–Tammela pegmatite region, SW Finland**

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**Table S1. Laser ablation ICP–MS/MS Lu-Hf isotope results for garnet unknowns. Lu-Hf isotope data is also provided for primary reference material NIST610 glass, secondary garnet standard Hogsbo, Lu (measured from 175) and Hf (measured from 178) represent total Lu and Hf elemental concentrations, calculated by assuming 'normal' abundances of these isotopes.**

Spot no.	Element concentrations (ppm) and isotope ratios for "inverse" isochron								
	Lu 175	Hf 176	Hf177	Lu176	176Lu/176Hf	$\pm 2\sigma$	177Hf/176Hf	$\pm 2\sigma$	$\rho$ (rho)
NIST_A-001					0.4879954	0.00239	3.5399486	0.00793	0.329
NIST_A-002					0.4907853	0.00241	3.5418246	0.00794	0.068
NIST_A-003					0.4883683	0.0024	3.5422391	0.00794	0.187
NIST_A-004					0.4876688	0.00239	3.5436807	0.00794	0.149
NIST_A-005					0.4892319	0.0024	3.5471153	0.00795	0.174
NIST_A-006					0.4872049	0.00239	3.543237	0.00794	0.24
NIST_A-007					0.489986	0.0024	3.5471934	0.00795	0.008
NIST_A-008					0.4909379	0.00241	3.5514249	0.00796	0.422
NIST_A-009					0.4884488	0.0024	3.5480509	0.00795	0.16
NIST_A-010					0.488324	0.0024	3.5483286	0.00795	0.269
NIST_A-011					0.4868647	0.00239	3.5516008	0.00796	0.352
NIST_A-012					0.4899419	0.0024	3.5525928	0.00796	0.323
NIST_A-013					0.4886408	0.0024	3.5452589	0.00794	0.268
NIST_A-014					0.4885941	0.0024	3.5498364	0.00795	0.319
NIST_A-015					0.4905318	0.00241	3.5491897	0.00795	-0.007
NIST_A-016					0.4880659	0.0024	3.5435809	0.00794	0.394
NIST_A-017					0.488095	0.0024	3.5398248	0.00793	0.377
NIST_A-018					0.4892574	0.0024	3.5448598	0.00794	0.28
NIST_P-001					0.4884468	0.00216	3.5371111	0.01085	0.15
NIST_P-002					0.4883444	0.00216	3.5450066	0.01087	0.226
NIST_P-003					0.4897541	0.00216	3.540534	0.01086	0.044
NIST_P-004					0.4895576	0.00216	3.5530892	0.01089	0.188
NIST_P-005					0.4877768	0.00216	3.543694	0.01087	0.464
NIST_P-006					0.4903882	0.00217	3.5490615	0.01088	0.19
NIST_P-007					0.4879711	0.00216	3.5519191	0.01089	0.294
NIST_P-008					0.4891504	0.00216	3.5488775	0.01088	0.12
NIST_P-009					0.4877865	0.00216	3.5516736	0.01089	0.097
NIST_P-010					0.4873541	0.00215	3.5482152	0.01088	0.282
NIST_P-011					0.4863784	0.00215	3.538789	0.01085	0.165
NIST_P-012					0.4901609	0.00217	3.5468897	0.01088	0.301
NIST_P-013					0.4901078	0.00217	3.5508314	0.01089	0.196
NIST_P-014					0.4909826	0.00217	3.5581325	0.01091	0.402
NIST_P-015					0.4885063	0.00216	3.5433779	0.01086	0.147
NIST_P-016					0.4907476	0.00217	3.5541941	0.0109	0.135
NIST_P-017					0.4884683	0.00216	3.5486621	0.01088	0.05
NIST_P-018					0.4883513	0.00216	3.5524813	0.01089	0.236
NIST_P-019					0.4889188	0.00216	3.5493865	0.01088	0.156
NIST_P-020					0.4875239	0.00215	3.5409499	0.01086	0.436
NIST_P-021					0.4885452	0.00216	3.5471224	0.01088	0.535
NIST_P-022					0.4886454	0.00216	3.5528109	0.01089	0.255
NIST_P-023					0.487879	0.00216	3.5458761	0.01087	0.405

Spot no.	Element concentrations (ppm) and isotope ratios for "inverse" isochron								
	Lu 175	Hf 176	Hf177	Lu176	176Lu/176Hf	$\pm 2\sigma$	177Hf/176Hf	$\pm 2\sigma$	$\rho$ (rho)
NIST_P-024					0.4889659	0.00216	3.55013	0.01089	0.407
NIST_P-025					0.4886608	0.00216	3.5485239	0.01088	0.212
NIST_P-025					0.4573385	0.00333	3.5417508	0.02059	0.212
NIST_P-026					0.490241	0.00217	3.5515297	0.01089	
NIST_P-026					0.458822	0.00334	3.5447608	0.02061	0.302
NIST_P-027					0.4882621	0.00216	3.5406696	0.01086	0.395
NIST_P-028					0.4882509	0.00216	3.5476852	0.01088	0.193
NIST_P-029					0.4903241	0.00217	3.5420561	0.01086	0.163
NIST_P-030					0.4896472	0.00216	3.5462182	0.01087	0.239
NIST_P-031					0.4873871	0.00215	3.5378709	0.01085	0.171
NIST_P-032					0.4899355	0.00216	3.5459145	0.01087	0.271
NIST_P-033					0.4881122	0.00216	3.5423119	0.01086	0.511
NIST_P-034					0.4879697	0.00216	3.5407761	0.01086	0.236
NIST_P-035					0.4890216	0.00216	3.5484985	0.01088	0.302
NIST_P-036					0.4893652	0.00216	3.5408841	0.01086	0.293
NIST_start-001					0.5059903	0.00349	3.5386777	0.01085	0.227
NIST_start-002					0.5035921	0.00347	3.5550948	0.0109	0.252
NIST_start-003					0.5001702	0.00345	3.5386364	0.01085	0.427
NIST_start-004					0.496382	0.00342	3.5357961	0.01084	0.275
NIST_start-005					0.4969343	0.00343	3.5480998	0.01088	0.176
NIST_start-006					0.4945552	0.00341	3.5473287	0.01088	0.239
NIST_start-007					0.4918365	0.00339	3.5427653	0.01086	-0.103
NIST_start-008					0.4913584	0.00339	3.5402158	0.01086	0.246
Hogsbo_ana-001	534.84	5.0378	0.043	556.34	51.172555	0.50385	0.0299227	0.0015	0.303
Hogsbo_ana-002	568.97	5.7596	0.044	634.71	51.269768	0.47391	0.0273076	0.00137	0.116
Hogsbo_ana-003	571.78	5.3508	0.045	590.12	51.097768	0.48359	0.029524	0.00164	-0.011
Hogsbo_ana-004	611.3	5.7613	0.036	632.05	50.920836	0.4732	0.0224494	0.00119	0.028
Hogsbo_ana-005	354.7	3.4551	0.011	381.8	51.191899	0.55859	0.0112196	0.00112	0.134
Hogsbo_ana-006	298.25	2.9087	0.026	321.6	51.498111	0.60195	0.0316336	0.00209	0.055
Hogsbo_ana-007	494.26	4.8129	0.041	528	51.12297	0.51476	0.0304333	0.00155	-0.042
Hogsbo_ana-008	572.88	5.8107	0.035	635.77	50.76981	0.47918	0.0214939	0.00109	0.116
Hogsbo_ana-009	473.23	4.4177	0.025	488.65	51.268472	0.50813	0.0204235	0.00133	-0.089
Hogsbo_ana-010	530.5	5.1636	0.038	570.07	51.386762	0.49397	0.0260481	0.00144	-0.019
Hogsbo_ana-011	714.79	6.7827	0.037	753.56	51.60506	0.48187	0.0194034	0.0011	-0.314
Hogsbo_ana-012	704.33	6.9837	0.022	773.54	51.464495	0.47437	0.0112182	0.00073	-0.008
Hogsbo_ana-013	494.33	4.7998	0.042	532.48	51.6688	0.51742	0.0310983	0.00153	-0.131
Hogsbo_ana-014	390	3.5973	0.038	395.38	51.067602	0.55779	0.0379214	0.00194	0.11
Hogsbo_ana-015	571.27	5.526	0.037	607.95	50.997835	0.48911	0.0237297	0.00125	0.181
Hogsbo_ana-016	519.14	5.1986	0.045	566.18	50.604399	0.51655	0.0308838	0.00143	0.206
Hogsbo_pulse-001	210.24	1.9491	0.072	207.59	49.298923	1.33749	0.1307971	0.02076	0.126
Hogsbo_pulse-002	213.17	1.9879	0.055	210.27	48.874243	1.35076	0.0969994	0.00867	0.225
Hogsbo_pulse-003	5.357	0.0902	0.037	5.9915	30.979958	2.45828	1.4615665	0.18064	0.462
Hogsbo_pulse-004	160.86	1.8245	0.066	188.44	47.655601	1.3393	0.1269367	0.01023	-0.349
Hogsbo_pulse-005	152.53	1.568	0.055	162.05	47.624265	1.41948	0.1229736	0.01069	-0.41
Hogsbo_pulse-006	11.249	0.1504	0.043	11.593	35.859051	1.66162	1.0188147	0.06627	0.221
Hogsbo_pulse-007	160.32	1.5736	0.06	163.53	47.869425	1.45882	0.1353112	0.01155	-0.117
Hogsbo_pulse-008	139.95	1.3521	0.056	140.68	48.12753	1.54659	0.1457958	0.01274	-0.104
Hogsbo_pulse-009	9.3577	0.121	0.041	8.5758	32.977122	1.77131	1.2027974	0.08241	0.209

Spot no.	Element concentrations (ppm) and isotope ratios for "inverse" isochron								
	Lu 175	Hf 176	Hf177	Lu176	176Lu/176Hf	$\pm 2\sigma$	177Hf/176Hf	$\pm 2\sigma$	$\rho$ (rho)
Hogsbo_pulse-010	105.96	1.134	0.057	116.78	47.547869	1.77324	0.1768986	0.0196	0.221
Hogsbo_pulse-011	72.436	0.8763	0.061	87.187	46.135491	1.93857	0.245048	0.02337	0.055
Hogsbo_pulse-012	8.2186	0.1356	0.053	9.2103	31.413516	1.50432	1.3733132	0.08659	0.288
Hogsbo_pulse-013	101.34	1.2015	0.057	122.05	47.091675	1.64806	0.1668844	0.01706	0.228
Hogsbo_pulse-014	37.418	0.4485	0.061	41.279	42.701592	2.46825	0.4853981	0.06241	0.309
Hogsbo_pulse-015	5.8606	0.1057	0.043	7.2166	31.656977	2.06656	1.4327045	0.12511	0.342
Hogsbo_pulse-016	249.95	2.5949	0.061	275.12	49.456937	1.17781	0.0841873	0.00802	0.272
Hogsbo_pulse-017	285.84	2.6161	0.061	278.19	49.475719	1.20362	0.082421	0.00724	0.094
Hogsbo_pulse-018	214.47	2.2561	0.052	240.69	49.669479	1.33686	0.082452	0.01144	-0.009
Hogsbo_pulse-019	184.41	1.8505	0.044	200.06	50.381093	1.42894	0.0845037	0.00825	-0.03
Hogsbo_pulse-020	254.24	2.5324	0.056	264.18	48.470176	1.26381	0.0782206	0.00799	0.176
Hogsbo_pulse-021	244.44	2.567	0.059	265.78	48.063493	1.22477	0.0813305	0.00752	0.116
Hogsbo_pulse-022	281.08	2.7262	0.062	287.81	49.139169	1.12933	0.0807463	0.0065	0.316
Hogsbo_pulse-023	81.541	0.8006	0.059	81.887	47.467144	2.05141	0.2605506	0.02673	0.052
Hogsbo_pulse-024	287.1	2.4261	0.062	262	50.09228	1.26928	0.09071	0.00855	0.032
Hogsbo_pulse-025	299.32	2.6468	0.059	287.08	50.310327	1.21234	0.0797909	0.00829	0.176
Hogsbo_pulse-026	298.57	2.7186	0.057	284.69	48.795447	1.15606	0.0744884	0.0068	-0.076
Hogsbo_pulse-027	235.4	2.5124	0.061	268.13	49.568761	1.25652	0.0860808	0.00727	0.188
Hogsbo_pulse-028	4.9859	0.1084	0.041	8.3117	35.119946	4.04401	1.3225069	0.20253	-0.323
Hogsbo_pulse-029	67.591	0.7242	0.057	73.201	46.472917	2.108	0.2748667	0.0298	0.427
Hogsbo_pulse-030	71.871	0.6691	0.049	68.091	47.339119	2.18363	0.2605975	0.0291	0.261
Hogsbo_pulse-031	92.9	0.7471	0.049	78.088	48.590491	2.10453	0.2312448	0.02516	0.341
Hogsbo_pulse-032	288.93	2.6122	0.062	279.7	49.709496	1.18321	0.0837413	0.00705	0.139

**Element concentrations (ppm) and isotope ratios for "inverse" isochron**

	Lu 175	Hf 176	Hf177	Lu176	176Lu/176Hf	$\pm 2\sigma$	177Hf/176Hf	$\pm 2\sigma$	$\rho$ (rho)
Keity-001	9.340515	0.56436	0.39614	10.5437	8.68032	0.14527	2.489709	0.04547	0.40084
Keity-002	9.365293	0.47819	0.33771	8.93807	8.67905	0.14886	2.506769	0.05028	0.45545
Keity-003	7.745787	0.49201	0.38833	6.55852	6.18628	0.1032	2.799017	0.05277	0.62517
Keity-004	3.214942	0.42006	0.35618	4.07621	4.51276	0.0796	3.011711	0.05968	0.58694
Keity-005	6.347824	0.48604	0.37629	7.54699	7.27343	0.12069	2.743033	0.08788	0.09649
Keity-006	5.47874	0.45419	0.36383	6.0956	6.24247	0.10566	2.847033	0.05441	0.62846
Keity-007	3.131837	0.34819	0.30319	2.60547	3.47954	0.06696	3.092817	0.06641	0.27316
Keity-008	2.19798	0.33503	0.29635	2.61574	3.62713	0.071	3.139133	0.06857	0.5699
Keity-009	0.206348	0.44519	0.43412	0.42851	0.44746	0.01329	3.460986	0.06557	0.45664
Keity-010	0.675346	0.34144	0.30513	1.50085	2.03228	0.05459	3.155754	0.09311	0.42996
Keity-011	3.062204	0.47107	0.42226	2.97324	2.93413	0.07487	3.181739	0.0574	0.19248
Keity-012	1.065944	0.30761	0.29771	0.78733	1.18932	0.02554	3.435819	0.07729	0.29532
Keity-013	0.435736	0.3348	0.33359	0.37035	0.51438	0.01596	3.537686	0.07658	0.3122
Keity-014	3.281235	0.43737	0.37965	3.50179	3.72515	0.06737	3.083653	0.0581	0.56888
Keity-015	2.269391	0.38184	0.34645	2.17151	2.642	0.04788	3.222169	0.06413	0.60254
Keity-016	2.747273	0.43939	0.38754	3.15567	3.33406	0.05654	3.129144	0.0617	0.4111
Keity-017	3.589765	0.43461	0.38234	3.20023	3.42216	0.06233	3.12575	0.06333	0.49538
Keity-018	3.05318	0.95658	0.91231	3.21679	1.56193	0.02892	3.385838	0.04565	0.21268
Keity-019	0.978443	0.55528	0.53053	1.44913	1.20815	0.04087	3.389714	0.05944	0.07458
Keity-020	1.608436	0.86656	0.81812	2.78256	1.49125	0.03021	3.349935	0.04641	0.27991
Keity-021	1.164123	0.51902	0.50444	1.12623	1.00931	0.02477	3.456579	0.06137	0.3358
Keity-022	3.930215	0.37879	0.31493	3.4648	4.25712	0.08285	2.956301	0.06492	0.58449
Keity-023	0.954142	0.31457	0.29979	0.86492	1.27506	0.02798	3.37981	0.0783	0.23773
Keity-024	1.682597	0.32412	0.30448	1.46433	2.10125	0.05992	3.338689	0.07602	0.54146
Keity-025	2.190079	0.30039	0.28769	0.92276	1.4246	0.0322	3.399009	0.08182	0.50171
Keity-026	8.114747	0.53314	0.41225	7.77453	6.76926	0.11503	2.745947	0.05146	0.60651
Keity-027	6.577639	0.46197	0.34759	7.21811	7.26022	0.12608	2.671777	0.0529	0.5933
Keity-028	1.178264	0.27557	0.26348	1.00109	1.68695	0.04266	3.397802	0.08349	0.31589
Keity-029	2.54296	0.3274	0.29773	2.2597	3.20474	0.08978	3.22838	0.10102	0.63949
Keity-030	1.911157	0.38984	0.37303	1.68807	2.00978	0.05808	3.398164	0.09599	0.22941
Keity-031	6.389823	0.50856	0.39386	6.88477	6.29109	0.17638	2.755417	0.0698	0.22228
Keity-032	3.391394	0.4759	0.42422	2.86061	2.78612	0.064	3.160624	0.08062	0.53334
Keity-033	-0.09844	0.41936	0.40889	0.83022	0.91723	0.02522	3.450409	0.09748	0.5354
Keity-034	-0.98037	0.33525	0.33013	0.44171	0.61227	0.03317	3.498609	0.10794	0.39683
Keity-035	-0.12728	0.29566	0.28541	0.63318	0.99518	0.03112	3.431637	0.11141	0.34604
Keity-036	-0.73474	0.29214	0.28089	0.38974	0.6193	0.02035	3.410348	0.11039	0.53015
Keity-037	-0.2952	0.36991	0.35985	0.58252	0.73009	0.02354	3.451938	0.0976	0.57304
Keity-038	0.263322	0.28775	0.27951	0.45839	0.74046	0.02347	3.447716	0.10988	0.56141
Keity-039	0.207985	0.84378	0.81961	0.91571	0.50363	0.0333	3.450529	0.0716	-0.2034
Keity-040	3.279375	1.02392	1.00666	1.5182	0.6875	0.01959	3.483899	0.06412	0.33557
Keity-041	-0.02081	0.19517	0.19838	0.30469	0.7263	0.03336	3.604255	0.14394	0.38255
Keity-042	3.117478	0.34709	0.29861	2.72348	3.64333	0.09765	3.05431	0.0923	0.51119
Keity-043	2.287459	0.41193	0.36242	3.34977	3.77398	0.0908	3.123874	0.08763	0.59487
Keity-044	2.307696	0.35736	0.31136	2.70513	3.51486	0.09056	3.089285	0.08945	0.44656
Keity-045	1.427942	0.40834	0.37328	2.45526	2.78342	0.06951	3.236323	0.08967	0.49036
Keity-046	3.519904	0.45873	0.39887	3.92708	3.97212	0.09102	3.078349	0.07849	0.48199

**Element concentrations (ppm) and isotope ratios for "inverse" isochron**

	<b>Lu 175</b>	<b>Hf 176</b>	<b>Hf177</b>	<b>Lu176</b>	<b>176Lu/176Hf</b>	<b>± 2σ</b>	<b>177Hf/176Hf</b>	<b>± 2σ</b>	<b>ρ (rho)</b>
Keity-047	0.915917	0.35287	0.33501	1.31935	1.7281	0.08579	3.35374	0.09946	0.34352
Keity-048	1.985592	0.3354	0.31736	1.08264	1.49702	0.0535	3.357123	0.10171	0.50004
Keity-049	1.985664	0.57364	0.52609	3.2217	2.59889	0.08039	3.232924	0.07403	0.12321
Keity-050	2.149722	0.34388	0.30829	1.85777	2.50582	0.06604	3.176466	0.09271	0.46376
Keity-051	-0.34895	0.29678	0.29553	0.68716	1.07285	0.03289	3.525031	0.10937	0.18925
Keity-052	2.043519	0.64678	0.60922	2.10176	1.50776	0.02988	3.339755	0.07058	0.31619
Keity-053	3.885511	0.61169	0.55545	3.59012	2.723	0.05409	3.218189	0.07048	0.46531
Keity-054	5.882058	0.46413	0.35593	6.27418	6.28122	0.13747	2.724871	0.06872	0.52163

Element concentrations (ppm) with Al as internal standard (used for inclusion monitoring)

	Al 27	Ca 43	Ti 47	Fe 57	Sr 88	Y 89	Zr 90	Ce 140
Keity-001	120000	1886.6	542.36	211510	0.0067289	189.959	11.03883	0.01925
Keity-002	120000	1857.52	492.778	213626	0.0007487	210.948	10.4948	0.00024
Keity-003	120000	1867.78	467.659	212038	0.0007298	158.725	11.29737	0.00083
Keity-004	120000	1823.34	417.692	212187	<0.000	115.185	10.06376	0.00023
Keity-005	120000	1843.91	444.432	216178	0.0072324	169.929	10.44966	0.01728
Keity-006	120000	1887.7	444.457	216000	9.725E-05	151.733	10.92048	<0.000
Keity-007	120000	1840.48	393.221	215660	0.0008872	85.9135	9.059137	0.0005
Keity-008	120000	1752.49	375.466	216120	0.0002286	79.1681	8.736708	0.0005
Keity-009	120000	1850.22	353.993	215206	0.1073508	41.6373	10.31594	0.06172
Keity-010	120000	1814.96	368.258	215334	0.0008992	67.4867	9.226871	0.01428
Keity-011	120000	1802.93	467.296	215265	0.0014754	108.599	11.5557	0.00496
Keity-012	120000	1768.26	353.395	217404	<0.000	54.1221	8.533672	0.00102
Keity-013	120000	1831.2	346.238	215745	0.0015587	43.3536	8.975277	0.00159
Keity-014	120000	1829.99	445.267	213920	0.0022482	104.893	10.8134	0.00018
Keity-015	120000	1782.48	371.703	217804	0.025257	68.7135	9.073394	0.06298
Keity-016	120000	1812.26	388.856	214077	0.0104019	89.8347	9.929214	0.03666
Keity-017	120000	1777.69	412.252	213784	0.0537051	99.9331	10.7973	0.03084
Keity-018	120000	1924.55	442.849	215281	0.0550888	85.8308	17.6329	0.48895
Keity-019	120000	1759.96	339.825	211498	0.2599166	58.6291	10.94046	0.27922
Keity-020	120000	1882.22	389.338	213872	0.0544079	94.6854	14.66616	0.32156
Keity-021	120000	1827.84	354.647	215392	0.0961405	49.0568	10.71623	0.2967
Keity-022	120000	1733.98	399.752	214768	0.002793	83.8438	9.018496	0.00714
Keity-023	120000	1788.7	343.582	214245	<0.000	54.0688	8.292777	0.00113
Keity-024	120000	1742.85	340.292	216794	0.0004773	46.3573	8.451555	0.00164
Keity-025	120000	1754.11	347.054	216363	0.0003503	53.6863	8.442474	0.00016
Keity-026	120000	1824.26	484.056	216054	0.0269106	175.762	11.51738	0.10408
Keity-027	120000	1794.31	474.94	215761	0.0021816	182.18	10.31291	0.01317
Keity-028	120000	1665.22	255.866	217040	0.0300221	47.0976	6.914646	0.11508
Keity-029	120000	1661.67	368.612	214736	0.0004446	69.8067	8.988977	<0.000
Keity-030	120000	1772.25	368.822	217189	0.0673574	66.8784	9.160919	0.32952
Keity-031	120000	1807.28	447.42	216201	0.044005	176.483	10.96573	0.17147
Keity-032	120000	1732.19	403.567	216568	0.0703276	104.014	10.45398	0.22496
Keity-033	120000	1778.26	342.26	216482	0.0001845	29.3944	9.884279	<0.000
Keity-034	120000	1771.64	312.117	219145	0.0004495	28.3784	8.547161	0.00034
Keity-035	120000	1733.62	328.254	222887	0.0004779	44.8752	8.504398	<0.001
Keity-036	120000	1719.15	336.65	222757	0.0014064	40.2195	8.189477	0.00055
Keity-037	120000	1805.17	324.783	223289	0.0134726	31.3128	8.695429	0.05957
Keity-038	120000	1721.25	319.187	220971	0.0018442	31.4443	8.107929	0.00106
Keity-039	120000	1787.83	363.819	215768	0.0561162	59.6902	13.99864	0.25545
Keity-040	120000	1731.79	354.452	215828	0.0505749	66.7189	16.3435	0.21626
Keity-041	120000	1759.65	191.538	220108	0.001214	21.6501	5.205847	<0.000
Keity-042	120000	1766.55	373.561	215822	0.0003958	72.9352	8.996813	<0.000
Keity-043	120000	1797.31	402.279	217159	0.0073752	91.3323	9.961069	0.01969
Keity-044	120000	1766.72	391.903	217520	0.0025912	71.0436	8.62693	0.00139
Keity-045	120000	1912.96	373.801	213245	0.0064376	93.6683	10.13744	0.06223
Keity-046	120000	1808.19	398.887	218270	0.0126862	84.9405	10.25553	0.06

Element concentrations (ppm) with Al as internal standard (used for inclusion monitoring)

	Al 27	Ca 43	Ti 47	Fe 57	Sr 88	Y 89	Zr 90	Ce 140
Keity-047	120000	1747.65	335.487	216985	0.0101657	53.7689	8.781591	0.0661
Keity-048	120000	1800.94	340.345	216859	0.0018736	44.3258	8.656022	0.01139
Keity-049	120000	1801.04	386.409	217261	0.0303857	79.6446	11.34723	0.10019
Keity-050	120000	1751.39	348.216	215028	0.000308	69.1002	8.86225	<0.000
Keity-051	120000	1810.36	326.19	216397	0.0027648	54.4537	8.402698	0.00033
Keity-052	120000	1828.22	414.859	212668	0.0327625	93.9178	13.57797	0.14617
Keity-053	120000	1856	457.149	213120	0.0257399	94.8439	12.60048	0.10418
Keity-054	120000	1813.02	424.563	213113	0.0024855	152.66	10.40526	0.00884



## Element conc. Contd. (ppm)

	<b>Nd 146</b>	<b>Sm 147</b>	<b>Yb 172</b>
Keity-001	0.03998	0.196262	64.97785
Keity-002	0.008898	0.207195	58.55476
Keity-003	0.010201	0.151022	42.76103
Keity-004	0.00727	0.126717	27.21744
Keity-005	0.024899	0.148466	48.08691
Keity-006	0.009265	0.148971	39.92753
Keity-007	0.010433	0.114582	17.49529
Keity-008	0.005928	0.095379	17.23908
Keity-009	0.031797	0.079507	3.73033
Keity-010	0.019295	0.103663	10.52223
Keity-011	0.01543	0.139693	20.67139
Keity-012	0.003048	0.103227	6.300048
Keity-013	0.005977	0.086011	3.320679
Keity-014	0.003732	0.110943	23.77619
Keity-015	0.050018	0.081017	14.52237
Keity-016	0.025118	0.108149	20.57008
Keity-017	0.032607	0.118908	22.03344
Keity-018	0.443975	0.171066	20.83119
Keity-019	0.218869	0.11862	10.1159
Keity-020	0.303777	0.160939	18.83525
Keity-021	0.260091	0.103746	8.035607
Keity-022	0.012337	0.112617	22.20963
Keity-023	0.006936	0.073881	6.765879
Keity-024	0.002534	0.049064	9.700183
Keity-025	0.003501	0.069993	7.047128
Keity-026	0.06662	0.154539	49.7922
Keity-027	0.013256	0.159225	47.90259
Keity-028	0.060722	0.066425	7.384164
Keity-029	0.004746	0.091054	15.27413
Keity-030	0.134644	0.099421	12.10869
Keity-031	0.094782	0.158325	46.32123
Keity-032	0.119351	0.138731	20.91817
Keity-033	0.001043	0.034422	5.892839
Keity-034	0.002288	0.041611	3.638048
Keity-035	0.008021	0.066015	5.213336
Keity-036	0.007888	0.088566	3.530866
Keity-037	0.033546	0.046893	4.555968
Keity-038	0.002871	0.050004	3.84181
Keity-039	0.185501	0.118877	7.390286
Keity-040	0.226084	0.133655	10.90665
Keity-041	0.005735	0.031488	2.439505
Keity-042	0.002319	0.075841	17.61589
Keity-043	0.02413	0.12054	22.15027
Keity-044	0.010763	0.070975	17.34629
Keity-045	0.051747	0.123865	17.00744
Keity-046	0.054774	0.088915	24.38116

Element conc. Contd. (ppm)

	<b>Nd 146</b>	<b>Sm 147</b>	<b>Yb 172</b>
Keity-047	0.052838	0.070892	9.352628
Keity-048	0.010806	0.065802	7.585418
Keity-049	0.093311	0.118663	20.48172
Keity-050	0.0071	0.089102	12.80428
Keity-051	0.001823	0.088057	5.722789
Keity-052	0.097082	0.123974	15.7003
Keity-053	0.070536	0.113839	23.53319
Keity-054	0.015846	0.135921	40.83397