

## Appendix: U-Pb SHRIMP Data for Sample SPP-1001

Grain. spot		Concentration in ppm				Radiogenic Ratios								Ages (in Ma)						
		U	Th	Th/U	Pb*	$^{204}\text{Pb}/$ $^{206}\text{Pb}$	f206 %	$^{206}\text{Pb}/$ $^{238}\text{U}$	$\pm$	$^{207}\text{Pb}/$ $^{235}\text{U}$	$^{207}\text{Pb}/$ $^{206}\text{Pb}$	$\pm$	$^{206}\text{Pb}/$ $^{238}\text{U}$	$\pm$	$^{207}\text{Pb}/$ $^{235}\text{U}$	$\pm$	$^{207}\text{Pb}/$ $^{206}\text{Pb}$	$\pm$	Conc %	
1.1	core	85	21.7	0.256	16	0.000139	0.23	0.1913	0.0030	2.050	0.049	0.0777	0.0013	1128.2	16.1	1132	16	1140	32	99
1.2	rim	11	0.1	0.007	1	0.003833	1.32	0.0774	0.0029					480.8	17.4					
1.3	rim	24	0.4	0.015	1	0.001202	2.23	0.0690	0.0021					430.2	12.4					
2.1	core	95	20.5	0.216	18	0.000322	0.54	0.1900	0.0028	2.019	0.063	0.0771	0.0020	1121.5	15.0	1122	21	1122	52	100
2.2	rim	14	0.1	0.007	1	0.004233	1.19	0.0769	0.0026					477.9	15.5					
3.1	core	334	200.2	0.600	72	0.000033	0.06	0.1986	0.0025	2.119	0.033	0.0774	0.0006	1168.0	13.6	1155	11	1131	15	103
4.1	rim	66	25.6	0.389	12	0.000158	0.27	0.1777	0.0034	1.805	0.071	0.0737	0.0024	1054.5	18.6	1047	26	1032	66	102
5.1	rim	28	0.4	0.014	2	0.001522	4.68	0.0719	0.0066					447.8	39.7					
6.1	rim	32	1.5	0.046	2	0.001064	2.07	0.0750	0.0021					466.0	12.3					
7.1	rim	26	2.5	0.098	2	-	1.86	0.0711	0.0025					442.9	14.9					
7.2	core	144	74.1	0.515	27	0.000077	0.13	0.1775	0.0025	1.829	0.036	0.0747	0.0009	1053.4	13.5	1056	13	1061	25	99
8.1	rim	11	0.3	0.026	1	-	3.46	0.0697	0.0027					434.1	16.3					
9.1	rim	182	8.4	0.046	12	0.000019	0.43	0.0741	0.0015					460.7	9.1					
10.1	core	24	0.6	0.023	129	-	<0.01	0.2504	0.0067	7.319	0.329	0.2120	0.0070	1440.5	34.4	2151	41	2921	55	49
11.1	rim	21	0.7	0.031	2	-	3.52	0.0798	0.0021					494.7	12.4					
12.1	rim	244	7.1	0.029	14	0.000657	0.94	0.0617	0.0017					385.7	10.4					
13.1	rim	42	1.9	0.045	3	0.000380	0.60	0.0672	0.0019					419.5	11.3					
13.2	core	183	48.0	0.262	30	0.000164	0.28	0.1652	0.0038	1.750	0.063	0.0768	0.0019	985.7	21.0	1027	24	1117	51	88
13.3	core	394	78.8	0.200	65	-	<0.01	0.1676	0.0025	1.719	0.047	0.0744	0.0016	999.0	14.0	1016	18	1052	43	95
9.2	core	183	54.1	0.295	34	0.000251	0.43	0.1866	0.0036	1.941	0.071	0.0754	0.0022	1102.7	19.3	1095	25	1080	59	102
8.2	core	454	159.5	0.351	91	0.000075	0.13	0.1967	0.0026	2.199	0.040	0.0811	0.0009	1157.6	13.8	1181	13	1224	23	95

Notes :

1. Uncertainties given at the one  $\sigma$  level.
2. f206 % denotes the percentage of  $^{206}\text{Pb}$  that is common Pb.
3. For areas >800 Ma, correction for common Pb made using the measured  $^{204}\text{Pb}/^{206}\text{Pb}$  ratio.
3. For areas <800 Ma, correction for common Pb made using the measured  $^{238}\text{U}/^{206}\text{Pb}$  and  $^{207}\text{Pb}/^{206}\text{Pb}$  following Tera and Wasserburg (1972) as outlined in Compston *et al.* (1992).
5. For % Conc., 100% denotes a concordant analysis.

**Appendix: Chemical analyses of minerals considered for P-T computations (SPP-2057)**

Anal.no.	<u>Famatinian metamorphism</u>				<u>Migmatitic conditions</u>		
	132	120	146	47	29	151	36
Mineral	Gr <sub>tIII</sub> (rim)	Pl(rim)	Ms	Bt	Gr <sub>tI</sub>	Pl(core)	Bt
SiO <sub>2</sub>	41.85	62.95	45.69	34.84	38.21	60.91	34.58
TiO <sub>2</sub>	0.05	0.00	1.15	2.49	0.00	0.00	4.07
Al <sub>2</sub> O <sub>3</sub>	21.45	23.25	33.83	17.93	21.84	24.92	19.17
FeO	28.64	0.00	1.40	19.31	35.12	0.00	20.03
MnO	0.05	0.00	0.00	0.00	0.72	0.00	0.00
MgO	2.26	0.00	0.46	10.48	3.80	0.00	6.79
CaO	6.43	4.58	0.01	0.04	1.32	6.51	0.04
Na <sub>2</sub> O	0.00	9.02	0.34	0.11	0.00	8.19	0.10
K <sub>2</sub> O	0.00	0.12	9.94	9.05	0.00	0.03	9.49
total	100.74	99.92	92.83	94.23	# 101.01	100.57	94.25