

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 19/7/96 UWA Mount No.: 96-25 Whose sample?: YUMIN Operator(s): McW + YQ

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	
Precambrian	Count time (secs):	2	10	10	10	30	10	5	5	2
Phanerozoic	Delay time (secs):	7	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.166 actual 204-bkg = 0.040 expected resolution = >4200
 actual 206-207 = 1.002 actual 206-208 = 2.000 actual resolution = 5200
 Primary = 2.1 nA PESABM = 34 pA actual Primary : PESABM (= 50:1) = 62
 Raster time (mins): 2 Raster aperture (microns): 100 No. of scans: 6

Comments:

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	Age ±1σ (Ma) 207/206	Corr.
196 207 238 254	sl. 4-1	10:27	7.17	11.1	1498	220	0.6	.04	572 ± 1	533 ± 20	208
206 207 248 254	sl. 4-2	10:46	7.28	10.5	1438	220	0.4	.04	571 ± 1	577 ± 20	208
	A.1-1	11:06	8.65	81.12	37716	1144	413	1.4	2061 ± 2	1969 ± 5	204
238.48.54	sl. 4-3	11:25	7.52	10.0	1451	212	0.9	.06	572 ± 1	585 ± 20	208
	A.2-1	11:45	9.03	71.37	4017	1380	402	1.3	1892 ± 2	1892 ± 5	204
<i>other granites with high 204 → ADDED FINISHED SAMPLE</i>											
207 238 254	sl. 4-4	12:25	7.03	11.1	1481	230	-0.6	.03	588 ± 1	606 ± 20	208
196 30.48	B. 1-1	12:45	7.28	10.2	1276	357	1.4	.01	2698 ± 5	2656 ± 3	204
207. 208. 238	B. 2-1	13:03	7.61	9.7	3855	107	-0.1	-	2570 ± 8	2645 ± 6	-
196 206 207 238	sl. 4-5	13:23	7.46	10.2	1461	217	0.7	.02	568 ± 1	524 ± 20	208
196 207.8. 238. 248 254	B. 3-1	13:50	7.23	10.6	6679	183	1.7	-0.2	2700 ± 7	2647 ± 5	204

Rejection over-ride Sample/ Std ID Time - printout UO/U 196 cps 206 cps U ppm 204Pb ppb f₂₀₆ % Age ±1σ (Ma) 206/238 207/206 Corr.

196 206 208 248 250	B.4-1	14:10	7.50	10.1	4047	107	1.5	.04	2612±8	2663±6	204
196 206 207.7.8. 238.48.50	B.4-2	14:28	7.46	10.1	3923	108	17.2	.43	2619±8 2669±7	2669±7	204
196 206.7 238 248	S1.4-6	14:47	7.25	9.2	1423	225	0.9	.07	590±1	015±20	208
196 206 208	B.5-1	15:06	7.32	9.5	1998	60	2.9	.13	2635±11	2654±9	204
196 206 207 238 248 250	B.6-1	15:25	7.35	10.3	9976	265	-0.6	-	2740±5	2668±4	204
206 238 250	B.7-1	15:43	6.53	10.4	2702	131	53.3	1.3	2172±7	2682±12	204
196 206 238.248 250	S1.4-7	16:03	7.29	10.1	1392	216	0.7	.06	582±1	558±21	208
196 207.8. 38 50 206.7	B.8-1	16:30	7.16	9.3	4072	131	1.0	.02	2585±8	2665±6	204
208 209 250	B.9-1	16:54	7.19	10.7	4660	126	2.7	.05	2735±8	2663±7	204
196 238 250	B.10-1	17:19	7.28	10.5	2491	68	0.2	.01	2702±10	2648±7	204
196 206 208 238 250	S1.4-8	17:42	7.10	10.4	1432	225	0.2	.02	597±1	590±20	208
196 206 208 238 250	B.11-1	18:06	7.08	9.3	2485	83	2.9	.09	2694±10	2645±8	204
196 206.7.8 238 248 250	B.12-1	18:26	6.73	11.8	2946	85	8.	.2	2791±10	2660±8	204
196 206 207 248 250	B.13-1	18:45	7.49	9.3	2272	66	5.6	.2	2646±11	2640±9	204
196 206.7.8.38.48.50	B.14-1	19:05	7.13	9.8	2382	74	10.1	.36	2695±11	2647±9	204
Wrong 238 D X	S1.625-31										
196 206 207.7 238 248 250	S1.2-1	19:51	6.99	11.6	1471	217	1.2	.15	602±1	483±21	208
196 206 38 48 50	S1.2-3	21:32	7.18	9.4	1345	220	-0.7	.08	572±1	549±21	208
196 206 206 238 250	B16-1	21:54	7.25	10.5	8143	215	13.7	.17	2629±6	2671±4	204
196 206 48.50	17-1	22:14	7.23	9.3	1407	42	2.4	.16	2628	2632±11	204
196 206.7.8.38.48	18-1	22:32	7.4	9.3	3497	96	8.2	.23	2658±9	2643±7	204
196 206 238 248 250	S1.2-4	22:54	7.22	9.9	1399	207	1.1	.05	590±1	545±21	208
196 19 unstable	19-1	23:18	8.28	10.	3438	223	11.8	.5	896	2673	204
196 208.238.248 250	20-1	23:37	7.39	10.2	4717	120	3.	.07	2630±8	2654±6	204
196.207.8.38.48 250	21-1	23:56	9.01	4.99	2462	91.	1.9	.1	1238	2624	204

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	²⁰⁴ Pb ppb	f ²⁰⁶ %	Age ±1σ (Ma) 206/238	207/206	Corr.
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196 7.8. 38.48 54	512-5	0:15	7.35	9.6	1362	206	1.1	0.05	571±1	512±21	208
196 206.7.8. 38 54	22-1	0:36	7.	9.0	2871	94	5.9	.17	2699	2587	204
196 206 207 238 254	23-1	1:06	7.6	9.6	443	117.	0.4	.01	2562	2645	204

12 STD
 2V/U 1.87034
 UO/U 7.25059
 Pb*/U 0.259009

1std dev. % 1.54% < 3%