

**UWA SHRIMP DATA LOG: ZIRCON U-Pb**

Date: 26/6/95      UWA Mount No. 95-9      Whose sample? Yumin Qiu      Operator(s) Iain F.

Indicate any change to the following:		196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	2 ✓	10 ✓	10 ✓	10 ✓	40 <sup>30</sup> ✓	10 ✓	5 ✓	5 ✓	2 ✓
	Delay time (secs):	8 ✓	3 ✓	1 ✓	2 ✓	1 ✓	1 ✓	3 ✓	2 ✓	2 ✓
Phanerozoic	Count time (secs):	2	10	10	10	10	10	5	5	2
	Delay time (secs):	6	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu      expected 204-bkg = 0.040 amu      Dead-time = <sup>32</sup>36 nanosecs  
 actual 196-204 = 8.170      actual 204-bkg = 0.040 ✓      expected resolution = >4200  
 Primary = 3.0 nA      PESABM = 50 pA      actual resolution = 5350  
 expected Primary : PESABM ≈ 50:1      actual Primary : PESABM = 60

Comments from Log Book:

Rejection over-ride	Sample/Std ID	Time - printout	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238	207/206	Corr.
206 238 248	sl3-2-1	12:15	15.1K	1454	—	0.6	0.05	—	—	206
206 207	Std-2-2	12:39	14.5K	1457	247	-0.5	—	576	567	208
206 254	sl3-2-3	13:04	14.8K	1481	208	1.1	0.10	569	556	204
196 206 207 208 248	u5098-1-1	13:29	16.6K	9014	184	30.7	0.89	2493 ± 5	2635 ± 5	204
196 206	u5098-2-1	13:52	14.2K	27019	522	827.7	3.95	2865 ± 4	2637 ± 5	204
206 207 238	sl3-2-4	14:16	15.1K	1540	206	0.1	0.0	564	594	204
196 206 207 238	u5098-3-1	14:40	17.1K	3860	117	100	3.0	2067	2666	204
206 207 254	u5098-4-1	15:02	15.1K	8820	224	28	0.4	2342	2621	204
196 206 208	u5098-5-1	15:23	15.1K	12400	310	76	0.7	2420	2587	204
204 206 207 254	u5098-6-1	16:00	14.1K	13750	333	113	1.0	2500	2648	204
196 208 248	sl3-2-5	16:27	15.6K	1530	206	0.8	0.07	578	549	204
196 206 208	u5098-7-1	16:52	15.2K	11000	232	83	1.0	2598	2673	204

TO: Std 2-6 :  $Zr/U: 1.88759 \quad 1.89654$   
 $Uo/u: 5.88135 \quad 5.88361$   
 $Pb^*/U: 0.186747 \quad 0.186912$   
 No. 7 6

Rejection over-ride	Sample/ Std ID	Time - printout	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238	207/206	Corr.
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250 238 208  
 196 206 207 208  
 207 off 77 centre  
 196 206 207 208  
 196 206 207 208  
 250 238 208  
 196 206 207 208

	u504B-8-1	17:15	14.7K	10500	231	17.9	0.2	2653	2634	204
	u504B-9-1	17:39	15K	9800	280	108	1.3	2248	2595	204
	u504B-10-1	18:04	13.8K	17500	470	27	0.2	2267	2475	204

Tuned up main calibr + fiddled acquisition table so that peak centering was better

196. 206 254  
 238 208 196 206 207 208  
 196 206 207 208 238 208  
 250

	std 2-6	19:18	15.3K	1491	-	-	0.03	-	575 $\pm$ 18	208
	unk 11-1	19:45	14.2K	5272	-	-	0.1	-	-	-
	unk 12-1	20:12	14.4K	11192	-	-	0.1	-	-	-
	Std 2-7	21:15	15.3K	1488	220	1.6	0.1	574 $\pm$ 1	562 $\pm$ 26	204
	unk 13-1	21:38	13.7K	13425	331	45.9	0.4	245 $\pm$ 24	2604 $\pm$ 2	204
	Std 2-8	22:04	12.9K	1320	204	0.4	0.04	614 $\pm$ 1	523 $\pm$ 27	204
	u509B-4-1	22:39	18.9K	6190	191	58.1	1.1	2097 $\pm$ 4	2535 $\pm$ 7	204
	u509B-15-1	23:18	19.6K	5090	124	71.2	1.9	2341 $\pm$ 6	2270 $\pm$ 11	204

May be not saved?  
 did not print

reject? std 2-9-1 1:05 15.9K 1243 224 0.8 0.07 547  $\pm$  1 - 204  
 ? ~~std 2-10-1~~ 1:44 16.2K 1443 214 0.6 0.05 562  $\pm$  1 0 204