

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

Date: 5/8/95      UWA Mount No.: 95-10      Whose sample?: Yumin Q      Operator(s):

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
<b>Precambrian</b> 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 ✓
<b>Phanerozoic</b> 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>2</sup>36 nanosecs  
 actual 196-204 = 8.170      actual 204-bkg = 0.040      expected resolution = >4200  
 Primary = 2.4 nA      PESABM = 4.4 pA      actual resolution = 4885  
 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.
	<u>sl.510.2-1</u>	<u>11:15</u>	<u>181K</u>	<u>1586</u>	<u>—</u>	<u>3.3</u>	<u>0.2</u>	<u>—</u>	<u>572</u>	<u>208</u>
	<u>2-2</u>	<u>11:53</u>	<u>191K</u>	<u>1827</u>	<u>201</u>	<u>1.1</u>	<u>0.1</u>	<u>581</u>	<u>553</u>	<u>208</u>
	<u>2-3</u>	<u>12:14</u>	<u>191K</u>	<u>1792</u>	<u>218</u>	<u>2.0</u>	<u>0.1</u>	<u>588</u>	<u>570</u>	<u>208</u>
	<u>u510C.1-1</u>	<u>12:40</u>	<u>165K</u>	<u>19K</u>	<u>377</u>	<u>136.</u>	<u>1.2</u>	<u>2280</u>	<u>2630</u>	<u>204</u>
	<del>u510C.4-1</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>
	<u>.3-1</u>	<u>13:12</u>	<u>171K</u>	<u>161K</u>	<u>280</u>	<u>11.</u>	<u>0.1</u>	<u>2754</u>	<u>2660</u>	<u>204</u>
	<u>sl.510.2-4</u>	<u>13:35</u>	<u>181K</u>	<u>7698</u>	<u>211</u>	<u>4.7</u>	<u>0.3</u>	<u>584</u>	<u>504</u>	<u>208</u>
	<u>.2-5</u>	<u>14:01</u>	<u>171K</u>	<u>1573</u>	<u>185</u>	<u>2.7</u>	<u>0.2</u>	<u>553</u>	<u>615</u>	<u>208</u>
	<del>u510C.4-1</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>	<del>—</del>
	<u>.5-1</u>	<u>14:32</u>	<u>1651K</u>	<u>121K</u>	<u>387</u>	<u>78.</u>	<u>0.9</u>	<u>1678</u>	<u>2622</u>	<u>204</u>
	<u>.6-1</u>	<u>14:56</u>	<u>177K</u>	<u>3594</u>	<u>88</u>	<u>8.7</u>	<u>0.3</u>	<u>2267</u>	<u>2618</u>	<u>204</u>
	<u>.7-1</u>	<u>15:19</u>	<u>146K</u>	<u>11K</u>	<u>550</u>	<u>192.</u>	<u>2.9</u>	<u>996</u>	<u>2383</u>	<u>204</u>

A : 300  
 B : 5  
 95-10C : 15

18 → when 1-3 & 2-6 are included.  
 std v: 5.2560

16 → std dev: 2.0315%

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

Rejection over-ride	Sample/ Std ID	Time - printout	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.	
	<del>u510C.8-1</del>	<del>15:52</del>	<del>181K</del>	<del>71500</del>	<del>200</del>	<del>1.3</del>	<del>0.3</del>	<del>OK</del>			
248 250 196 207 238	sl.510.2-6	15:52	181K	71500	200	1.3	0.3	OK			
248 250 206 238	2-7	16:16	181K	1672	214	7.0	0.5	581	595	208	
256 238 196 208	u510C.9-1	16:42	16.6K	131K	317	63.	0.7	2186	2600	204	
adjusted 206 from mass down 5 mAU	<del>10-1</del>										
	high 204										
196 207 208	11-1	17:22	161K	121K	422	170.	2.0	1577	2606	204	
196 206 207 208 250	12-1	17:44	191K	3563	95	29.	1.0	2175	2711	204	
196 208 238	u510C.13-1	18:11	16.4K	9648	176	8.7	0.1	2911	2926	204	
196 206 208 238	sl.510.1-1	18:36	171K	1657	206	1.2	0.1	579	575	208	
196 238	Pop. B. (Y013)	u510B.1-1	19:09	15.3K	41896	753	9.3	2336 ± 2	2423 ± 2	204	
196 238	u510B.2-1	19:32	16.1K	25334	301	156.4	8.4	3670 ± 6	2705 ± 8	204	
206 207 208	u510B.3-1	19:55	16.5K	15063	279	71.4	.77	2437	2525 ± 4	204	
196 208	u510B1-2	20:18	16.1K	28024	641	34.7	.19	2205 ± 2	2542 ± 2	204	
196 208 238	u510B3-2	20:41	15.1K	22470	490	42.6	.24	2604 ± 3	2581 ± 3	204	
196 206 out 208 out	<del>u510B1-2</del>	<del>21:05</del>	<del>16.4K</del>	<del>1465</del>	<del>207.3</del>	<del>1.7</del>	<del>.15</del>	<del>569 ± 1</del>	<del>573 ± 19</del>	<del>208</del>	
196 238	Pop C (Y014)	u510C3-2	21:30	12.6K	15.3K	340	65.3	.65	2229 ± 3	2519 ± 4	204
this grain should be polished and re-analyzed; it's big enough	u510C1-2	21:55	17.5K	5.3K	185	68.2	1.3	2062 ± 4	2648 ± 8	204	
196 206 208	u510C13-2	22:17	14.5K	6769	193	18.9	.28	2405 ± 5	2941 ± 4	204	
1° drops a little	u510C14-1	22:41	11.1K	18366	781	131.8	6.9	1779 ± 2	2491 ± 9	204	
196 208 238 250	<del>sl.510T-3</del>	<del>23:05</del>	<del>13.5K</del>	<del>1187</del>	<del>201</del>	<del>1.1</del>	<del>.03</del>	<del>481 ± 1</del>	<del>882 ± 20</del>	<del>208</del>	
208	u510C.5-2	23:30	9.3K	6308	599	32.4	4.2	1019 ± 2	2610 ± 11	204	
204	u510C.12-2	23:57	11.2K	14.1K	340	24.	0.01	2842 ± 5	2804 ± 3	208	
196 206 238 250	on line	sl.510.1-4	00:22	14.3K	1386	211	2.5	.23	572 ± 1	616 ± 20	208
196 206 208 238	Pop A. (Y021)	u510A1-1	00:54	15.4K	636	169	91.3	3.02	1367 ± 3	2677 ± 10	204
196 238 248 250	u510A2-1	1:19	11.9K	4399	272	15.3	4.2	1053 ± 2	2659 ± 13	204	

204 similar to 10-1 but let finish