

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 18/8/95 UWA Mount No. 94-24 + 95-9 Whose sample? A Mueller Yumini Operator(s) McIV + YUMINIV

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

expected 196-204 = 8.170 amu actual 196-204 = 8.165  
 expected 204-bkg = 0.040 amu actual 204-bkg = 0.040  
 Dead-time = 32 nanosecs  
 expected resolution = >4200  
 Primary = 1.8 nA PESABM = 3.3 pA actual resolution = 4780  
 expected Primary : PESABM ≈ 50:1 actual Primary : PESABM = 55

Comments:  
 ⊕ started to run a single peak-centering scan on CZ3 between unknowns if there is a peak centering problem!

\* calibrating std.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f <sub>206</sub> %	Age ±1σ (Ma) 206/238 207/206	Corr.
	* std 1-1	11:27	5.789	1506	15.3K	220	2.8	.01	572 ± 1 547 ± 19	208
	* std 2-1	11:48	5.655	1515	15.0K	220	2.6	.07	572 ± 1 613 ± 18	208
	B. 7-1	12:13	5.395	15.0K	234	7.1	2.9	1.08	2709 ± 34 2598 ± 42	204
	B. 8-1	12:34	5.712	14.6K	617	16.0	3.5	0.58	2658 ± 19 2609 ± 21	204
	std 2-2	12:57	5.472	15.6K	1417	225	4.0	.43	564 ± 1 558 ± 20	208
	<del>B. 9-1</del>	<del>13:22</del>	<del>10.891</del>	<del>14.9K</del>	<del>38</del>	<del>0.4?</del>	<del>0.4</del>	<del>5.5</del>	<del>1255 ± 43 2923 ± 145</del>	<del>204</del>
	B. 10-1	13:50	5.54	14.7K	437	12.8	3.2	.69	2620 ± 22 2602 ± 24	204
	<del>B. 10-2</del>	<del>14:14</del>	<del>5.13</del>	<del>14.8K</del>	<del>43?</del>	<del>2.1</del>	<del>1.4</del>	<del>2.17</del>	<del>2181 ± 63 2938 ± 140</del>	<del>204</del>
	B. 11-1	14:45	5.60	14.8K	653	18.2	1.1	.17	2639 ± 18 2627 ± 20	204
	std 3-1	15:07	5.64	14.3K	1450	223	2.1	.05	571 ± 1 606 ± 19	208
	B. 11-2	15:30	5.82	14.1K	1201	29.5	2.2	.20	2722 ± 14 2595 ± 12	204

94-24 B ↓

NO FIND 248 →

CENT. PROBLEM → DELETE?

-11- → DELETE?

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Mount/sample No: 94-24 Date: 18/8/95 Page No: 2

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.
	B. 12-1	15:52	5.79	14.0K	828	22.2	0.3	.04	2588±16	2651±13	204
	B. 13-1	16:14	5.62	14.1K	1154	33.7	2.8	.23	2613±13	2615±13	204
	B. 12-2	16:42	5.41	14.5K	132	4.2	1.1	.73	2636±42	2626±66	204
	std 3-2	17:04	5.64	13.7K	1431	230	1.3	.01	570±1	552±19	208
	B. 14-1	17:35	5.53	14.0K	721	22.3	1.0	.12	2642±17	2608±18	204
	B. 14-2	17:56	5.67	13.6K	1095	30.9	3.9	.34	2681±14	2591±15	204
	B. 15-1	18:27	5.74	14.0K	430	11.4	2.2	.53	2654±23	2606±26	204
	B. 16-1	18:51	5.67	14.0K	76.7	1.9	1.7	2.13	2922±76	2522±140	204
	std 4-1	19:13	5.52	13.7K	1329	229	2.7	.11	570±1	624±20	208
<p>95-9A Note: 95-9 replicated since last analyzed</p>											
	std 3-1	20:03	6.01	12.1K	1376	220	0.2	.03	572±1	603±19	208
196. 206.	A. 1-1	20:25	5.95	12.8K	13.2K	348	23.9	.17	2826±5	2698±3	204
196 (206) 248 256	std 3-2	20:48	5.77	13.2K	1333	225	0.6	.05	568±1	613±37	208
196. 204.	A2-1	21:13	5.73	13.4K	7823	228	4.1	.51	2773±5	2660±5	204
207 248.	A3-1	21:35	5.72	13.1K	5922	182	1.8	.02	2748±6	2688±5	204
196 206. 238 256	std 3-3	21:57	5.80	12.9K	1318	221	1.5	.04	576±1	565±20	208
196 204	A4-1	22:19	5.87	12.7K	8946	227	259	2.6	2977±6	2719±7	204
196 204	A5-1	22:41	6.17	12.7K	13.8K	272	26.4	.2	3244±5	2722±3	204
196.	A6-1	23:04	6.38	13.5K	9099	288	155.2	2.1	1880±3	2692±7	204
196 204 208	A7-1	23:30	5.8	13.4K	4825	141	206.3	3.9	2587±7	2571±15	204
196 238	8-1	23:55	5.81	13.3K	4.8K	468	85	.5	2501±4	2627±4	204
196. 206 207. 208	std 3-4	0:19	5.67	12.9K	1294	237	1.8	.04	572±1	576±20	208
196. 204 207 208	9-1	0:45	6.2	12.8K	9544	278	79.6	.92	2302±4	2587±5	204
196 206 207 238 248 256	10-1	1:08	5.63	12.9K	5616	213	12.4	.12	2439±5	2680±5	204

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Mount/sample No: 95-9 Date: 18-19/8/95 Page No: 3

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.

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.
10 drops. 204	A11-1	1:34	5.88	11.6K	7992	390	56.10	0.59	1882±3 2530±5	204
206 208 238 250 248	12-1	1:56	5.87	13.4K	8518	273	30.3	.3	2623±5 2703±4	204
196 (248) 254	Std 3-5	2:20	5.5	13.2K	1269	250	-1.0	0.03	580±1 543±20	208
196	13-1	2:43	6.01	12.9K	16.9K	468	10.4	.06	2616±4 2528±3	204
196 238 250	14-1	3:05	6.06	12.2K	12.9K	206	37.	.27	4105±8 2708±3	204
196 204	15-1	3:28	7:34	11.2K	17.K	693	361.6	3.3	1214±1 2684±6	204
196 207 10 drops	16-1	3:51	5.98	11.97K	8365	410	70.6	.79	1726±3 2444±6	204
196. 208 238. 248	17-1	4:13	5.87	12.4K	11.1K	321	9.3	.07	2775±5 2687±3	204
196. 207 208 238 248 254	18-1	4:36	5.74	12.6K	5596	174	5.1	.08	2755±6 2684±5	204
196. 204.	19-1	4:57	5.94	12.9K	12.11K	373	54.9	4.4	2386±4 252±9	204
196. (206) 207	Std 3-6	5:20	5.77	12.3K	1291	228	1.3	.11	584±1 568±33	204
196. 206 207	3-7	5:48	5.68	12.4K	1257	234	0.7	.05	577±1	208
238. 250	18-2	6:11	6.81	12.7K	2919	85	67	3.3	1769±5 2676±15	204
204	20-1	6:33	5.69	13.7K	7524	237	104.4	1.19	2589±5 2716±6	204
196. 206 207 238 254	21-1	6:55	6.11	11.5K	31.3K	323	81.5	.25	5687±8 2473±2	204
196.	22-1	7:17	5.82	12.6K	369	119	62.	1.46	2474±7 2868±9	204
196 206 208	23-1	7:39	5.89	11.9K	14.2K	453	22	0.13	2634±4 2680±3	204
196. 207 208 238 254	24-1	8:01	6.22	11.8K	12.9K	451	73.8	.59	2093±3 2545±4	204
196. (206) 208	Std 3-8	8:23	5.71	11.7K	1274	242	0.7	.04	592±1	208
196. 204. 206 238	3-9	8:48	5.81	12.2K	1264	223	2.3	.19	571±1 535±33	204
1.4nA ← 10 drops	25-1	9:11	5.91	6.3K	1986	120	26.5	.62	2581±11 2572±11	204
back to 1.4nA droped to 1.1nA	3-10	9:36	5.74	8.5K	998	272	1.5	.11	555±1 536±43	204

delete

9 STD  
 206/196 = 7.69517  
 UO/U = 5.74871  
 Pb/U = 0.175251  
 1 STD dev % = 0.7077%

95-9A  
 2.5