

UWA SHRIMP DATA LOG: ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
10/4/95	94-18 SAMPLE B	Chris Yeats	IRF CY

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254
Count time (secs):	2✓	10✓	10✓	10✓	40	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 = 36 nanosecs ✓

actual 196-204 = 8.170 actual 204-bkg = 0.045 expected resolution = >4200

Primary = 1.6 nA PESABM = 26 pA actual resolution = 4420

expected Primary : PESABM ≈ 1 : 50 actual Primary : PESABM = 1:62

Comments from Log Book: ① Tried reducing spot size - no better. Duo Press slightly increased

Rejection over-ride	Sample/ Std ID	Time	196 cps	206 cps	U ppm	204Pb ppb	f206 %	204-corr. Age ±1σ (Ma)	206/238 207/206	Peak cent. OK?
	sl-1a-1	(13:50) 13:05	7.5K	880	186	1.3	0.13	559 ± 10		✓
	sl-2-11	(14:19) 13:35	7.8K	880	220	-0.3	-	572 ± 0.8		✓
	sl-2-12	(14:49) 14:05	8.1K	900	215	0.4	0.03	560 ± 0.9		✓
	sl-2-13	(15:33) 14:50	9.0K	1030	222	0.7	0.06	579 ± 0.9		① ✓
	Bc1-1	(15:56) 15:15	9.5K	3200	99	0.7	0.02	2873 ± 9	2943 ± 6	✓
	Bc2-1	(16:26) 15:37	9.6K	2800	88	2.2	0.06	2881 ± 10	2952 ± 6	✓
	sl-2-14	(16:43) 16:00	9.4K	1016	223	1.7	0.14	573 ± 10		✓
*high204	B19-1	17:12	9.8K	2478	118	37.5	1.39	1678 ± 5	2931 ± 9	✓
*high204	B20-1	17:46	10.5K	2685	132	45.4	0.95	2499 ± 8	2920 ± 8	✓
	B21-1	18:11	9.6K	2065	71	1.7	0.06	2877 ± 12	2936 ± 7	✓
	sl-2-15	18:36	9.0K	1032	199	-	-	²⁰⁸ 568 ± 1	²⁰⁸ 591 ± 20	✓
*high204	B22-1	19:06	9.6K	3939	140	42.7	0.80	2609 ± 7	2943 ± 6	✓
	B23-1	19:30	9.8K	2143	66	3.3	0.12	2916 ± 12	2946 ± 7	✓
*high204	B24-1	19:53	10.2K	4860	165	53.8	8.6	2430 ± 7	2882 ± 15	✓

24p-
1,07

Rejection over-ride	Sample/ Std ID	Time	196 cps	206 cps	U ppm	204Pb ppb	f206 %	204-corr. Age ±1σ (Ma) 206/238	207/206	Peak cent. OK?	
	B25-1	20:16	9.6K	2144	85.8	11.9	0.35	2678 ± 9	2936 ± 7	Y	
	s12-16	20:39	9.5K	1067	215	1.1	0.10	208 575 ± 1	208 598 ± 9	Y	
	B26-1	21:03	9.7K	2804	94.5	6.2	0.16	2785 ± 10	2929 ± 6	Y	
	B26-2	21:25	9.3K	4139	139.9	8.7	0.15	2760 ± 8	2925 ± 5	Y	
	High 204 B27-1	21:48	9.4K	2419	79.2	14.3	0.49	2548 ± 9	2958 ± 8	Y	
	B28-1	22:11	9.4K	4502	140.7	21.5	0.36	2866 ± 8	2936 ± 5	Y	
	s12-17	22:35	9.4K	1058.8	240.3	-	-	208 604 ± 1	539 ± 20	Y	
	B29-1	23:01	9.1K	6658	274	50.8	0.63	2115 ± 4	2872 ± 5	Y	
	s12-18										
	s11a-2	0:18 0:17:50	8.1K	972	?	?	-		208 570 ± 21	Y	
	s11a-3	0:46 0:45:50	9.2K	1018	?	?	-		208 590 ± 20	Y	
	CALIB STD. s13a-1	1:13	8.4K	984	220	2.9	0.24	208 571 ± 1	208 595 ± 21	Y	
	s13a-2	1:40	9.3K	1055	259	2.5	0.17	208 600 ± 1	208 588 ± 20	Y	
	*High 204 B30-1	2:09	9.4K	4962	204.5	266.1	2.77	3026 ± 8	2931 ± 9	Y	
	B31-1	2:33	9.0K	2154	85.4	-	-	3079 ± 12	2932 ± 6	Y	
	*High 204 B32-1	2:56	8.8K	4340	183.3	331.5	4.20	2802 ± 8	2898 ± 11	Y	
	MAGNET TRIPPED OUT s13a-3									N	
	NOT ENOUGH STD LEFT → WENT TO 94-17										

SMER END
1.6 - 1
1.4 - 1

MAGNET
cut out! →

Needed
to Re-calib.?

CALIB
STD.

*High 204

*High 204

C=GIN

Unstable
High 204
NO COUNTS
STOPPED