

UWA SHRIMP DATA LOG: ZIRCON U-Pb

Date: June 5 1995
 UWA Mount No.: 95-12
 Whose sample?: A. Ross
 Operator(s): J. Fletcher, A. Ross
5/6/95

Indicate any change to the following:	196	204	bkg	206	207	208	238	248	254
Precambrian Count time (secs):	2	10	10	10	40	10	5	5	2
Delay time (secs):	6	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 = ³²/₃₈ nanosecs
 actual 196-204 = 8.170 actual 204-bkg = 0.040 expected resolution = >4200

Primary = 2.4 nA PESABM = 40 pA actual resolution = 5.215
 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 ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Corr.
	C23-26-1	11:28	12K	1125	265	0.4	0.04	(std)		not cal
	C23-26-2	11:52	19K	1680	220	0.7	0.06	(std)		cal.
	C23-26-3	12:17	20K	1728	235	1.0	0.07	(std)		
	U512A-1-1	12:46	21K	3130	64.7	0.3	0.03	2.732	2657	
	S123-26-4	13:11	19K	1723	242	1.4	0.10	(std)		
	U512A-1-2	13:35	19K	4431	108	2.0	0.05	2858	2646	
	U512A-2-1	14:06	22K	8275	165	13	0.2	2666	2639	
	S123-26-5	14:30	19K	1721	239	0.4	0.03	(std)		
	U512A-3-1	14:58	20K	1697	47	<u>5000!</u>	40.0	!?	!?	
	U512A-4-1	15:24	19K	14760	331	66	0.6	2600	2500	
	U512A-5-1	15:49	17K	53260	950	97	0.3	2474	2328	
	U512A-6-1	16:15	18K	3296	75.4	14.7	0.5	2588	2684	

Need to change IDs to "sl"

don't use 1st
 standard Rejected
 All restored
 Non-linearity
 all restored
 Non-linearity
 all restored

Remove scan 174

*High Common Pb, take-out 1st analysis for sure

Took out 1st analysis. Restored
 Non-linearity
 all restored
 Non-linearity
 all restored
 Non-linearity
 all restored

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.

looks bad

all restored

SI3-27-6 16:42 20K 1636 226.1 0.8 .07 (std)

~~US12A-7-1 - too much common Pb, abandoned~~

~~US12A-8-1~~

Throw out last 2 scans; rest restored

May want to throw last 2 scans because of ↑ common Pb

US12A-8-1 17:16 20K 2445 55.1 178 .06 3194 3026

~~US12A-9-1 - too much common Pb, abandoned~~

non-linearity all-restored
non-linearity all-restored
non-linearity all-restored

US12A-10-1 19:51 19K 3159 95.6 5.9 0.19 2403 2635

US12A-11-1 18:13 18K 5878 164.5 44.8 0.60 2853 2680

SI3-27-7 18:36 18K 1743 233.8 -0.4 (std)

ex. 26-1

~~ex. 26-1 and 27-6~~

Z/U: 3.01798

~~1.9958~~

U/10: 5.85773

~~5.88113~~

Pb*/U: 0.173102

~~0.175325~~

n=6

~~n=5~~

error = 3.3543%

~~3.46%~~

ex. 26-1, 26-3

ex. 26-1, 23-6 → med. Pb, excludes 206 scans 416

Z/U: 2.00914

2.01799

U/10: 5.88771

5.85773

Pb*/U: 0.172749

0.172807

n=5

n=6

2.005711

3.0250%

[2.657 ave. ex: < 2500 and > 3026 (2) (1)]