

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date 5/5/99 UWA Mount No. 98-84 Whose sample? AGSO Operator(s) JD/AR

Indicate any change to the following: ²⁰⁰196-204 bkg 206 207 208 238 248 254 270

Precambrian	Count time (secs):	2	10	10	10/20*	30/10*	10	5	5	25	5
-Phanerozoic*	Delay time (secs):	8	3	1	2	1	1	3	24	2	3

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs
 actual ²⁰⁰196-204 = 4.135 actual 204-bkg = .045 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 2.000 actual resolution = 5090

Primary = 3.7 nA PESABM = 58 pA actual Primary : PESABM (≈ 50:1) = _____
 Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: *running using NO₂⁻ peak not O₂⁻ as not getting enough beam on O₂⁻*
(3.7na) (1.3na)
Sensitivity ~ 18

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ²⁰⁰ 196 Kcps	206 cps	UO ₂ ppm ppb	204Pb ppb cps	f ₂₀₆ %	Age ±1σ (Ma) 206/238 ratio	207/206	Offsets OK?	
	Kh.2-1	12:57	0.86	3324	2292	18.9	0.7	.49	0.122	495	
	Kh.2-2	13:24	0.81	3449	2165	18.6	0.6	.38	0.116	573	✓
	A.19-1	13:48	0.93	3921	1135	1.3	9.7	11.4	0.849	2711	✓
	A.2-1	14:25	0.88	4265	1185	1.5	7.0	8.0	0.775	2592	✓
	A.4-1	16:00	0.86	3401	753	1.0	4.9	8.5	0.758	2731	✓
	Kh.2-3	15:20	0.85	3304	2223	18.4	0.9	.63	0.121	461	✓
	A.5-1	15:39	0.86	3690	835	1.2	3.0	4.7	0.702	2644	✓
	A.7-1	16:08	0.87	4271	936	1.2	3.3	4.6	0.787	2663	✓
	A.8-1	16:26	0.89	3830	1147	1.5	4.0	4.6	0.744	2641	204-bkg .043
	Kh.2-4	16:47	0.86	3470	2222	18.2	0.7	.41	0.122	563	✓
	A.9-1	17:05	0.92	4397	1035	1.2	14.7	19.2	0.846	2719	✓

Rejection over-ride	Sample/ Std ID	Time - printout	UO/UO ²⁰⁰ ₁₉₆ Kcps	206 cps	UO ₂ ppm Kcps	204Pb ₁ ppb cps	f206 %	Age ±1σ (Ma) _{206/238 ²⁰} ^{ratio} _{207/206}	Offsets OK?		
	A10-1	17:23	0.92	4073	3378	4.3	6.3	2.5	0.790	2648	206-204 = 1.988
	A20-1	17:44	0.85	3071	1205	1.4	13.8	15.4	0.853	2703	✓
	A11-1	18:05	0.80	3353	464	0.6	1.6	4.4	0.717	2677	✓
	Kh3-1	18:23	0.85	3719	2339	18.7	0.8	.48	0.125	494	✓
	A12-1	18:45	0.89	3768	689	.89	3.0	5.5	0.781	2638	✓
	A13-1	19:06	0.88	3557	1071	1.5	3.4	4.3	0.704	2640	✓
	A14-1	19:25	0.90	4050	1339	1.8	3.6	3.5	0.759	2653	✓
	A21-1	19:44	0.93	4484	924	1.2	3.0	4.2	0.758	2662	✓
	Kh3-2	20:02	0.85	3886	2259	17.7	0.8	.54	0.128	503	✓
	A15-1	20:25	0.84	4089	1230	1.6	10.3	11.3	0.777	2650	✓
	A16-1	20:44	0.89	4126	787	1.0	3.8	6.3	0.787	2634	✓
	A22-1	21:07	0.84	3831	971	1.2	6.4	8.7	0.812	2680	✓
	A18-1	21:26	0.86	4662	1217	1.6	3.6	3.9	0.744	2615	✓
	Kh3-3	21:44	0.82	3281	2130	18.1	1.0	.70	0.118	472	✓
	A18-2	22:02	0.84	4486	929	1.2	2.9	4.0	0.757	2654	✓
	A23-1	22:20	0.88	4310	1231	1.6	5.2	5.6	0.785	2642	✓
	A17-1	22:39	0.83	3301	922	1.3	3.4	4.8	0.710	2736	✓
	D16-1 D4-1	22:13	0.86	3783	1454	1.9	2.1	1.8	0.756	2596	✓
	Kh3-4	23:32	0.86	3335	2345	20.0	1.0	.66	0.117	452	✓
	D9-1	23:59	0.99	1279	362	.01	12.0	40.0	2.298	4232	✓
	Kh3-5	00:41	0.79	2892	2110	18.3	0.8	.61	0.115	497	✓
	C1-1	1:05	0.82	2249	484	.67	0.4	1.0	0.724	2591	✓
	C2-1	1:27	0.77	1268	284	.40	0.7	3.1	0.700	2490	✓
	C2-2	1:46	0.72	1119	274	.40	0.5	1.9	0.688	2615	✓
	C1-2	2:10	0.72	1886	725	1.0	0.8	1.3	0.707	2570	✓

* 9 spots attempted on population "D"; no good results.

** only two identifiable titanites in population - see photos

Mount/sample No: 98-84

Date: 5/5/99

Page No: 3

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U ²⁰⁰ 196 Kcps	206 cps	U ²⁰² ppm Kcps	204Pb ppb cps	f ²⁰⁶ %	Age ±1σ (Ma) 206/238 207/206 ratio	Offsets OK?		
	① Kh-6-1	2:29	0.83	399.3	239.3	18.9	14.1	7.9	0.127	1805	✓
	B1-1	2:52	0.80	1906	127	.17	0.2	1.3	0.738	2534	✓
	B1-2	3:13	0.83	1944	290	.17	4.1	19.4	1.676	2470	✓
	B.7-1	3:39	0.83	1661	305	.31	2.6	11.5	0.968	2721	✓
	B.3-1	3:59	0.77	1230	375	.52	0.8	2.2	0.717	2546	✓
	Kh-6-2	4:17	0.84	3922	2334	18.8	0.7	4.0	0.124	543	✓
	B.8-1	4:36	0.71	4044	307	.46	0.8	3.4	0.661	2499	✓
	B.4-1	4:56	0.76	3509	25	1002	1.2	63.6	1.437	—	✓
lost scan	② B.9-1	5:16	0.77	1515	248	.33	0.3	1.6	0.754	2623	no
	B.5-1	5:49	0.86	2817	235	.33	0.9	4.9	0.706	2756	✓
	Kh-6-3	6:08	0.83	3377	2510	20.0	0.7	4.5	0.126	532	✓
	B.6-1	6:26	0.82	4665	11	1001	0.3	36.8 328	0.764	1394	✓
	B10-1	6:47	0.83	4912	204	.32	0.4	2.5	0.634	2451	✓
	B.19-1	7:08	0.79	3765	228	.27	1.4	7.6	0.839	2650	✓
	B.11-1	7:29	0.80	3310	114	.15	0.4	4.6	0.786	2534	✓
	Kh-6-4	7:52	0.89	3569	2567	19.8	0.7	4.5	0.130	501	✓
	B12-1	8:15	0.82	3570	28	.041	0.4	13.9	0.678	2604	✓
	B.15-1	8:35	0.84	352	149	.129	4.0	34.4	1.147	2982	✓
	Kh-6-5	8:54	.81	3653	2400	19.4	0.9	5.8	.124	471	✓

① 1° dropped during analysis ② lost secondary at end of analysis