

SHRIMP data acquisition logsheet

SHRIMP **A** or B

Mineral = *Rutile*

Date	Sample/Mount(s)	Sample owner	SH operator	Night-runner(s)
22/4/08	08-03 08-23B	McN	McN	—

Deadtime... *2.5* ...ns Kohler aperture... *100?* Retard... *6463* volts Resoln.....
 Primary on steel: O⁻ Bits/nA O₂⁻ Bits/nA
 Primary O₂⁻ on: epoxy nA standard *1.68* nA PostESA BM on std *53*
 Raster: Time (mins) *3.0* Aperture *140* No. of scans *6*

Zircon/Badd.	196	204	Bk	206	207	208	238	248	254		
Count time (secs)	2	10	10	10/20	30/10	10	5	5	2		
Delay time (secs)	8	3	1	4	2	1	3	2	2		
Peak centring time (secs)	3	-	-	3	-	-	3	3	2		
Titanite/Perovskite	200	204	Bk	206	207	208	248	254	270		
Count time (secs)	2	10	10	10/20	30/10	10	5	5	7		
Delay time (secs)	8	3	1	4	2	1	4	2	3		
Peak centring time (secs)	3	-	-	4	-	-	2	3	3		
Rutile	192	204	Bk	206	207	208	248 <i>254</i>	254 <i>264</i>	270 <i>270</i>		
Count time (secs)	2	10	10	10/20	30/10	10	5	5 <i>5</i>	5 <i>5</i>		
Delay time (secs)	8	3	1	4	2	1	4	2 <i>3</i>	3 <i>3</i>		
Peak centring time (secs)	3 <i>3.4</i>	-	-	4 <i>4.5</i>	-	-	2 <i>2.3</i>	3 <i>3</i>	3 <i>3</i>		
Monazite	202	203	204	Bk	206	207	208	232	254	264	270
Count time (secs)	2	10	10	10	10/20	30/10	5	5	2	2	2
Delay time (secs)	8	1	1	1	4	2	2	4	3	3	2
Peak centring time (secs)	1	2	-	-	4	-	2	2	2	2	2
Xenotime	194	204	Bk	206	207	208	238	248	254		
Count time (secs)	2	10	10	10/20	30/10	5	5	5	2		
Delay time (secs)	8	3	1	4	2	1	3	2	2		
Peak centring time (secs)	1	-	-	3	-	-	4	3	2		

Mass Offsets

Zircon/Badd.	196-204	204-Bk	204-206	206-207	206-208
Expected offset	8.170	0.045	2.001/9	1.001/5	2.001/9
Setup offsets					
Titanite/Perovskite	200-204	204-Bk	204-206	206-207	206-208
Expected offset	4.136	0.045	2.001/9	1.001/5	2.001/9
Setup offsets					
Rutile	192-204	204-Bk	204-206	206-207	206-208
Expected offset	12.100	0.045	2.001/9	1.001/5	2.001/9
Setup offsets	12.103 <i>12.103</i>	0.045 <i>0.045</i>	2.002 <i>2.002</i>	1.005 <i>1.005</i>	2.009 <i>2.009</i>
Monazite	202-203	203-204	204-Bk	204-206	206-207
Expected offset	1.000	1.110	0.045	2.001/9	1.001/5
Setup offsets					
Xenotime	194-204	204-Bk	204-206	206-207	206-208
Expected offset	10.143	0.045	2.001/9	1.001/5	2.001/9
Setup offsets					

Std = WH
2625 Ma
+ 35 ppm U.

254-264
~~10.00~~ *10.038*



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#37 = #53

check 264

check 264

Filename	Time	UO/UO	196	206	206	U	Sensit-	Age/Ma	Age/Ma	Check
		254/238	Kcps	-cps-	(%)	ppm	ivity	206/238	207/206	offsets
Alternatives		UO2/UO	Reference			254/270		Pb/U ratio	207/206	
		270/254	Kcps			Kcps				
0803B. 37-2	11:01	.702	1900	3500	.04	35	170	2624±45	2621±27	✓ -5.1%
" 37-3	11:19	.700	1800	4000	.04	39	166	2675±47	2580±32	✓ -4.8%
" 37-4	11:38	.705	1900	3300	.05	32	171	2645±49	2582±32	✓ -3.7%
0623B 33-1	12:09	1.04	1300	2300	.08	42	113	2325±43	2686±9	✓ -8.4%
" 34-1	12:28	1.42	570	4400	.05	86	141	1824±17	2709±5	✓ -5.4%
" 35-1	12:48	0.691	1900	2800	.10	25	171	2861±28	2674±9	✓ -5.2%
" 36-1	13:06	1.80	290	3400	.08	117	108	1518±18	2671±6	✓ -8.9%
0803B. 51-2	13:31	1.09	800	5800	.03	94	144	2156±17	2628±7	✓ -6.3%
" 51-3	13:49	1.06	870	5800	.03	87	152	2226±22	2636±7	✓ -7.0%
" 50-2	14:07	0.81	1500	3800	.05	41	183	2482±27	2628±8	✓ -8.0%
" 50-3	14:26	0.80	1600	3700	.04	39	189	2527±24	2636±8	✓ -8.5%
0623B. 37-1	15:26	0.71	1600	2400	.12	23	166	2934±72	2621±44	✓ -20.1%
" 38-1	15:45	1.67	930	1000	.29	16	162	2091±43	2634±12	✓ -6.3%
" 39-1	16:04	0.93	1100	2000	.60	27	160	2416±32	2650±12	✓ -13.2%
" 40-1	16:22	1.10	890	5200	.05	73	158	2205±18	2692±9	✓ -9.6%
0803B. 44-2	16:44	1.48	500	7600	.02	172	134	1712±14	2629±4	✓ -4.9%
" 42-2	17:03	0.65	2200	3800	.04	33	180	2829±63	2352±45	✓ +3.9%
" 38-2	17:22	1.36	590	6500	.03	131	137	1814±13	2632±5	✓ -7.5%
" 38-3	17:40	1.34	560	6400	.05	135	131	1825±15	2633±5	✓ -6.6%
" 38-4	17:58	1.38	580	6500	.03	132	139	1782±17	2636±5	✓ -7.4%
0623B. 40-2	18:19	1.09	890	4700	.05	67	156	2202±17	2693±7	✓ -9.2%
" 41-1	18:37	0.68	2200	2400	.11	19	209	2888±37	2691±10	✓ -11.1%
" 42-1	18:57	0.71	1800	1500	.21	14	190	2776±31	2673±12	✓ -11.3%
" 43-1	19:15	0.86	1300	2500	.13	29	177	2458±32	2726±11	✓ -10.0%
0803B. 36-2	19:35	1.25	600	6100	.02	120	127	2001±18	2631±6	✓ -7.8%
" 36-3	19:53	1.25	660	6200	.03	113	140	1945±17	2627±5	✓ -8.0%
" 30-2	20:12	1.40	480	4400	.10	107	120	1791±22	2624±7	✓ -6.3%
" 30-3	20:30	1.49	510	6100	.02	137	138	1676±21	2639±6	✓ -8.4%
" 28-2	20:49	1.30	580	6100	.03	127	129	1872±14	2642±6	✓ -4.6%
0623B. 44-1	21:09	0.73	1100	300	2.49	4.2	109	2761±75	2715±43	✓ -8.9%
" 45-1	21:28	1.57	460	5300	.05	122	137	1675±23	2687±5	✓ -7.6%
" 45-2	21:48	1.57	450	4300	.05	101	134	1664±19	2699±8	✓ -4.8%
" 45-3	22:06	1.59	470	5200	.06	118	142	1653±17	2701±8	✓ -7.5%
0803B. 31-2	22:27	0.92	970	3600	.05	53	136	2392±23	2637±12	✓ -6.5%
" 31-3	22:44	0.95	970	5000	.03	72	140	2381±20	2665±9	✓ -6.3%
" 32-2	23:03	1.37	570	5700	.02	120	142	1795±21	2619±6	✓ -6.0%
" 34-2	23:23	1.59	450	7200	.02	179	134	1598±13	2634±6	✓ -2.9%
" 33-2	23:44	1.27	610	6600	.01	126	135	1987±19	2633±5	✓ -2.7%

FINISH

