

SHRIMP data acquisition logsheet

SHRIMP A of **B**

Mineral = **RUTILE**

Date	Sample/Mount(s)	Sample owner	SH operator	Night-runner(s)
9/5/12	08-03 = STD 08-25 + 11-15	AISREY DOYLEY	MCN	

Deadtime... 2.5 ns Kohler aperture... 70? Retard... 14 volts Resoln... 5202

Primary on steel: O<sup>-</sup> Bits/nA O<sub>2</sub><sup>-</sup> Bits/nA

Primary O<sub>2</sub><sup>-</sup> on: epoxy nA standard nA PostESA BM on std

Raster: Time (mins) 2.5 Aperture 120 No. of scans 6

	196	204	Bk	206	207	208	238	248	254		
<b>Zircon/Badd.</b>											
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		
<b>Titanite/Perovskite</b>	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		
<b>Rutile</b>	192	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	34	12	4	2	12	4	2	3		
Peak centring time (secs)	3	-	-	46	-	-	2	3	3		
<b>Monazite</b>	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
<b>Xenotime</b>	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		

Offsets						
<b>Zircon/Badd.</b>	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						
<b>Titanite/Perovskite</b>	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						
<b>Rutile</b>	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	12.093	-0.040	~2.010	1.005	2.007	
<b>Monazite</b>	202-203	203-204	204-Bk	204-206	206-207	206-208
Expected offset	1.000	1.110	0.045	2.001/9	1.001/5	2.001/9
Setup offsets						
<b>Xenotime</b>	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						

1/11 RUTILE  
 6/38 = 2625 Ma  
 7/6 = 2642 Ma  
 + 164 ppm U

\* 248 not in correct posn.

Date 9/5/12 Mount 0803 + 11-15 Page no. 1

Filename	Time	UO/U	196	206	f206	U	Sensit-	Age/Ma	Age/Ma	SMB
		254/238	Keps	Keps-	(%)	ppm	ivity	206/238	207/206	%
Alternatives		UO2/UO	Reference		204	254/270		Pb/U ratio	207/206	
		270/254	Keps		cps	Keps				
0803B WH. 1-1	10:44	1.56	1.5	16	.47	15		2625±44	2621±10	5.9 *
WH 1-2	11:05	1.50	1.5	15	1.2	15		2514±44	2653±10	15.1
	↑	Retracted Duo P to get better stability								
WH. 2-1	11:34	1.08	1.7	5.7	1.6	5.7		1885±109	2672±27	11.5
		↑ Duo + adjusted Duo current → retest!!								
WH. 2-2	12:22	1.15	1.7	7.8	.65	8.1		2625±15	2670±6	3.8
WH. 3-1	12:42	1.46	0.97	9.2	.50	8.4		3197±20	2636±4	7.1
1115A A. 1-1	1306	1.98	0.92	2	3.1	1.7		3625±65	3086±11	9.9
A. 2-1	1328	0.72	9.1	1.2	3.0	1.2		1835±27	3078±12	8.9
WH. 4-1	1350	1.30	1.0	11	0.60	11		3095±19	2843±5	5.9 ✓
A. 3-1	1423	1.38	1.5	2.4	2.0	1.2		3409±41	2932±10	9.6
A. 4-1	1510	1.64	0.8	2.1	3.0	1.8		4051±57	3038±10	4.0
A. 5-1	1538	1.91	1.5	1.8	2.1	1.5		3659±60	3119±13	7.7
A. 6-1	1600	1.35	1.7	1.8	3.1	1.6		3499±45	3089±15	4.3
WH. 5-1	1622	1.31	1.7	8.2	0.3	8.1		3010±18	2851±6	9.1 ✓
A. 7-1	1643	1.78	0.8	3.4	1.4	2.8		4325±52	2945±7	6.4
A. 8-1	1723	1.99	1.1	1.7	2.7	1.5		3698±50	2900±14	5.6
A. 9-1	1800	1.56	0.82	1.3	1.5	1.2		3631±53	2803±5	5.1
A. 10-1	1822	0.92	0.9	1.1	1.3	0.9		3605±77	2941±3	5.8
WH. 6-1	1858	0.84	2.8	6.2	0.2	6.4		2010±85	2652±51	10.5 ✓
A. 11-1	1921	1.31	1.5	2.2	1.2	2.0		3242±98	2998±	0.7 ✓
A. 12-1	1948	1.90	1.4	2.3	2.3	1.9		3594±38	3052±7	5.8
A. 13-1	2017	1.25	1.5	2.5	2.4	2.1		3249±51	3069±8	7.3
A. 14-1	2048	0.87	3.0	1.3	2.0	1.2		2345±99	3015±37	9.5
WH. 7-1	2111	0.78	3.4	6.4	0.46	6.8		1858±67	2648±41	5.5
== HU OFF, CHANGE MOUNT. ==										
WH. 8-1	2157	1.42	1.4	8.6	0.34	8.0		2625±35	2694±5	5.9
WH. 9-1	2217	1.56	1.2	11	0.37	11		2798±50	2644±5	5.9
0825 A. 9-1	2244	1.52	1.3	1.0	0.9	1.1		2390±74	2494±18	3.6
A. 13-1	2303	1.31	1.7	4.5	0.4	4.7		2218±74	2503±6	4.7

Offsets: Ref-204 = 12.093 204-Bkg = 0.040 204-206 = ~2.010 206-207 = 1.005 206-208 = 2.007

6/4 7500



