

SHRIMP data acquisition logsheet

SHRIMP A or **B**

Mineral = **TNT**

Date	Sample/Mount(s)	Sample owner	SH operator	Night-runner(s)
10/11/10	09-22 10-22	McN	McN/IF	Serena

Deadtime... 2.5...ns Kohler aperture... 100... Retard... 0...volts Resoln... 5100

Primary on steel: O⁻ Bits/nA O₂⁻ Bits/nA

Primary O₂⁻ on: epoxynA standardnA PostESA BM on std

Raster: Time (mins) ... 2 Aperture ... 120 No. of scans ... 7

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	83	84	75		
Delay time (secs)	8	3	12	4	2	12	4	2	3		
Peak centring time (secs)	3	-	-	45	-	-	23	3	3		
Rutile	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	3	1	4	2	1	4	2	3		
Peak centring time (secs)	3	-	-	4	-	-	2	3	3		
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		

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	4.137	0.045	2.007	1.003	2.006	
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						
Monazite	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						
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						

10/11/10

09-22

Date Mount Page no. 1

Filename	Time	(9/8)	200(1)	(4)	(2/4)	(9)	(7)	Sensitivity	Age/Ma	Age/Ma	Check offsets
		UO/U	196	206	f206	U	Age/Ma		Age/Ma		
Alternatives		254/238	Kcps	Kcps	(%)	ppm			206/238	207/206	
		UO2/UO	Reference						Pb/U ratio	207/206	
		270/254	Kcps								
KL 1-1	10:06	0.85	1.7	3.6	0.4	22	20	20	cal	691	✓
Orb. 1-1	10:32	0.87	1.7	4.3	1.0	4.3	24	2725	2798		✓
KL 2-1	10:55	0.85	1.7	3.5	0.4	22	20	513	700		✓
0922.1-1	11:21	0.82	1.6	2.3	0.9	2.5	0.6	2460	2600		✓
0922.1-1											
0922.2-1			changed output format -								
			"196"			"254"	"238"				
	11:39	0.87	1.5	8.1	9.2	5.6	4.9				
0922.2-2	11:57	0.82	1.5	3.1	1.9	3.3	0.2		2486??		✓
Orb. 1-2	12:19	0.87	1.5	4.2	.90	4.2	23		2473		✓
0922.3-1	12:45	0.89	1.8	1.5	2.4	1.6	4.0		2692±10		✓
0922.3-2	13:06	0.85	1.8	1.6	2.5	1.7	4.6		2459±28		✓
Kh. 3-1	13:29	0.84	1.5	3.3	0.52	21	20		2451±31		✓
Kh. 4-1	13:52	0.84	1.6	3.4	0.62	21	20		479±34		✓
1022D.1-1	14:18	0.85	1.9	4.6	0.37	9.3	13		438±39		✓
" 2-1	14:39	0.86	1.8	5.8	0.29	12	7.8		1516±16		✓
" 2-2	15:01	0.87	1.8	6.5	0.28	14	8.8		1516±12		✓
" 3-1			aborted → high 4/6								
" 4-1	15:28	0.85	1.8	2.3	0.60	4.8	5.4		1512±23		✓
.5-1	15:51	0.82	1.8	0.9	1.3	1.9	2.0		1554±71		✓
.6-1			aborted → high 4/6								
.7-1	16:17	0.85	1.8	3.1	0.58	6.4	4.1		1499±21		✓
.8-1			aborted → high 4/6								
.9-1	16:45	0.92	1.9	5.6	0.41	12	19				✓
.2-3	17:07	0.86	1.9	6.3	0.25	13	8.1		1525±14		✓
.9-2	17:28	0.88	1.9	4.0	0.6	8.1	28		1516±10		✓
Kh. 5-1	17:53	0.84	1.6	3.4	0.5	22	20		1568±20		✓
Orb. 2-1	18:15	0.90	1.8	4.7	0.87	4.9	23		496±36		✓
0922.4-1	18:39	0.8	1.9	2.3	1.04	2.5	6.5		2686±11		✓
4-2	19:01	0.83	1.7	2.8	0.9	3.0	10		2530±15		✓
5-1	19:23	0.84	1.7	3.1	0.70	3.3	3.7		2537±13		✓
6-1	19:50	0.88	1.8	2.0	0.85	2.2	7.5		2555±2		✓
7-1	20:12	0.82	1.6	2.1	0.76	2.3	0.08		2552±16		✓
Kh. 6-1	20:34	0.91	1.7	3.3	0.81	21	18		2524±14		✓
									409±41		✓

5 sc. hi 204

5 sc. hi 204

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Offsets: 196-204 = 4.137 204-Bkg = .045 204-206 = 2.007 206-207 = 1.003 207-208 = 1.003

Date 10/11/10

Mount 09-22

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Filename	Time	9/8	1	4	2/4	9	7	Sensit- ivity	Age/Ma 206/238 Pb/U ratio	Age/Ma 207/206 207/206	Check offsets
		UO/U 254/238 UO2/UO 270/254	196 Keps Reference Keps	206 -eps-	f206 (%)	U ppm 254/270 Keps	x				
0922.8-1	20:58	0.82	1.5	2.1	0.76	2.4	0.2	-	2487±15	✓	
9-1	21:21	0.82	1.6	2.1	1.04	2.3	0.2		2498±16	✓	
10-1	21:41	0.78	1.3	3.1	0.74	3.6	0.2		2468±18	✓	
11-1	22:08	0.86	1.6	3.3	0.57	3.7	5.4		2623±8	✓	
12-1	22:36	0.79	1.5	3.5	0.42	3.9	0.2		2511±11	✓	
Kh.7-1	22:59	0.86	1.6	3.1	0.77	20	24		467±65	✓	
0922.13-1	23:28	1.00	1.7	4.5	0.84	4.9	5.6		2520±35	✓	
14-1	23:49	0.85	1.7	3.3	0.66	3.6	3.8		2838±12	✓	
15-1	00:10	0.85	1.8	2.3	1.30	2.4	2.8		2510±17	✓	
16-1	00:37	0.88	1.7	5.3	0.44	5.9	5.1		2557±7	✓	
17-1	01:14	0.82	1.5	2.6	0.84	2.9	0.16		2486±21	✓	
Kh.8-1	01:36	0.89	1.6	3.4	1.17	17	15		417±52	✓	
0922.18-1	02:03	0.92	1.8	4.9	0.81	5.1	4.8		2550±9	✓	
19-1	02:24	0.85	1.7	2.7	1.18	2.9	0.09		2497±14	✓	
20-1	02:56	0.90	1.8	1.8	0.00	1.8	5.1		2579±20	✓	
21-1	03:24	0.93	1.8	5.0	0.44	5.4	4.8		2582±9	✓	
22-1	03:55	0.91	1.9	2.9	0.86	3.1	10		2537±13	✓	
Kh.1-2	04:18	0.84	1.6	3.4	0.52	22	20		493±42	✓	
Grb.3-1	04:40	0.86	1.6	4.5	0.77	4.6	23		2688±9	✓	
0922.23-1	05:09	0.85	1.8	2.2	0.90	2.4	9.1		2557±19	✓	
24-1	05:30	0.86	1.7	6.0	0.4	6.4	5.1		2553±8	✓	
25-1	05:51	0.89	1.8	1.6	1.18	1.7	4.4		2512±20	✓	
26-1	06:19	0.87	1.7	3.9	0.46	4.2	3.8		2857±10	✓	
27-1	06:41	0.86	1.7	6.1	0.45	6.6	5.6		2552±11	✓	
Kh.2-2	07:04	0.84	1.5	3.3	0.39	21	20		497±29	✓	
0922.28-1	07:29	0.87	1.7	1.9	1.0	2.1	5.9		2858±19	✓	
29-1	07:50	0.85	1.6	3.6	0.72	4.0	4.4		2552±13	✓	
30-1	08:11	0.89	1.7	2.2	1.00	2.4	6.1		2536±18	✓	
Kh.7-2											

mistabled as
Kh.6-1 ; *
Arght labled *
as 8-1 ;

Offsets: 196-204 = 4.137 204-Bkg = 204-206 = 206-207 = 207-208 =