UWA SHRIMP LOG SHEET

Date	UWA mount no(s)	Mineral(s)	Whose sample?	Operator(s)
29/1/06	05-88 05-89	ZR	JOAS	McN + Nick

Notes: Masses in **bold** = peak centred; others = offset from lower mass centred peak (see offsets below).

Zircon/Badd.	**196**	204	204.1	**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	~~4~~	2	~~2~~ 3
Centring (secs)	3	-	-	~~4~~	-	-	~~2~~	3	2

Titanite/Perovskite	**200**	204	204.1	**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
Centring (secs)	3	-	-	4	-	-	4	3	3

Monazite (SHB)	**202**	**203**	204	204.1	**206**	207	**208**	**232**	**254**	**264**	**270**
Count time (secs)	2	2	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
Centring (secs)	1	2	-	-	4	-	2	2	2	2	2
Cup in/out (SHA) out								in	out		in

Xenotime (SHB)	**194**	(196)	204	204.1	**206**	207	208	**238**	**248**	**254**
Count time (secs)	2	(5)	10	10	10/20	30/10	5	5	5	2
Delay time (secs)	8	(2)	3	1	4	2	1	3	2	2
Centring (secs)	1	-	-	-	4	-	-	4	3	2

MASS OFFSETS (record setup offsets for session, and **check them after each analysis**).
Note: Setup offsets are different for SHRIMP A and B: i.e. 206-207 = 1.001 for A and 1.005 for B.

Zircon/Badd.	196-204	204-204.1	204-206	206-207	206-208
Expected offsets:	8.170	0.045	~2.001/9	1.001/5	2.001/9
Setup offsets:	8.155	0.045	~2.006	1.004	2.005
~~**Titanite/Perovsk.**~~	~~200-204~~	~~204-204.1~~	~~204-206~~	~~206-207~~	~~206-208~~
Expected offsets:	4.136	0.045	~2.001/9	1.001/5	2.001/9
Setup offsets:	.....	.....	.....	.....	.....

Monazite (SHB)	202-203	203-204	204-204.1	204-206	206-207	206-208
Expected offsets:	~1.000	1.110	0.045	~2.001/9	1.001/5	~2.001/9
Setup offsets:	.....	.....	.....	.....	.....	.....

Xenotime (SHB)	(194-196)	194-204	204-204.1	204-206	206-207	206-208
Expected offsets:	1.998	10.143	0.045	~2.001/9	1.001/5	2.001/9
Setup offsets:	.....	.....	.....	.....	.....	.....

Deadtime 24 ns **Kohler aperture** 100 **Retard** 14 volts **Resoln** 5030

Primary on Steel: O^- ..... bits & nA O_2^- ..... bits & nA

Primary O_2^- on: epoxy = 1.74 nA; standard = 2.46 nA; **PESABM on std** = 45 pA

Raster: Time (mins): 2.05 Aperture: 140 **No. of scans:** 6

Useful information
CZ3 = 564 Ma & 551 ppm U
Temora 2 = 417 Ma & ~130 ppm U
Khan = 518Ma & 700 ppm U
SDA : 7/6 age = 3578+/-4 Ma

Comments: 05 88 C
05 89 A → 5 scans; 208 = 5 secs
238 = 3 secs
1 x CZ3
8 x Tem

Date 29/1/06 UWA mount no(s) 05-88 Page no. 1

Note: Bold = constant for stds & unknowns.....check after each analysis; also check offsets.

Sample/ Std ID	Time on printout	UO/U 254/238	196 (zr) Kcps	206 cps	U ppm	f_{206} %	Sensit.	Age+/-1σ (Ma) 206/238	Age+/-1σ (Ma) 207/206	Offsets OK?
Alternative		*UO2/UO 270/254*	*194 (xt) 200 (tnt) 203 (mz)*	*206 cps*	*254 270 Kcps*	*204 cps*	*196/194 264 Kcps*	*206/238 206/254 206/270*	*207/206*	*Check after each!!!*
0588. c2.1-1	10:55	6.38	14	1900	551	.09	22.3	564±4	529±44	✓
tem.1-1	11:19	6.47	14	260	100	.69	22.8	413±7	354±189	✓
tem.2-1	11:38	6.43	14	440	169	.49	22.3	414±6	328±154	✓
C.1-1	—	aborted →		high	204		—			
C.2-1	—	"		"	"		—			
C.3-1	—	"		"	"		—			
C.4-1	12:26	6.38	13	5100	304	.29	21.2	2473±20	3187±10	
tem.3-1	12:46	6.47	13	311	117	1.2	23	412±6	94±230	✓
C.5-1	aborted, high 204.									
C.6-1	—	" —								
C.7-1	13:28	6.28	13	7000	345	.23	20.8	2853±16	3196±6	✓
C.8-1	aborted, high 204.									
C.9-1	aborted, high 204.									
C.10-1	—	" —								
C.11-1	14:33	6.34	13	6000	290	.41	21.9	2748±71	3226±8	✓
C.12-1	15:04	6.29	13	7500	323	.04	22.3	2972±17	3228±6	✓
C.13-1	15:18	aborted, high 204								
C.14-1	15:41	6.35	14	5980	354	1.3	23.4	2218±16	3088±7	✓
TEM.4-1	16:11	6.50	13	220	171	-ve	24.0	405±6	518±186	✓
TEM.5-1	16:32	6.41	12	280	120	.50	21.8	405±8	436±176	✓
C.15-1	17:01	6.37	13	6460	390	1.0	23.1	2312±20	3182±8	✓

Noisy 1° during scan 4

Date ..... UWA mount no(s) ..... Page no. .....

Note: Bold = constant for stds & unknowns.....check after each analysis; also check offsets.

Sample/ Std ID	Time on printout	UO/U 254/238	196 (zr) Kcps	206 cps	U ppm	f_{206} %	Sensit.	Age+/-1σ (Ma) 206/238	Age+/-1σ (Ma) 207/206	Offsets OK?	
Alternative		*UO2/UO 270/254*	*194 (xt) 200 (tnt) 203 (mz)*	*206 cps*	*254 270 Kcps*	*204 cps*	*196/194 264 Kcps*	*206/238 206/254 206/270*	*207/206*	*Check after each!!!*	
C.16-1	17:21	6.30	13	7260	396	.95	21.9	2617±15	3182±7	✓	
C.17-1	17:45	6.23	13	4000	227	.29	23.1	2498±30	3159±10	✓	
TEM.6-1	18:07	6.30	12	240	102	.57	22.8	415±8	283±215	✓	noise on primary
TEM.7-1	18:28	6.46	12	340	136	.89	21.8	418±7	242±227	✓	
	Swapped to 0589										
0589 C23.1-1	18:58	6.40	12	1800	552	1.02	23.3	572±6	582±43	✓	
0589 TEM.1-1	19:32	6.23	12	270	120	1.01	21.7	422±8	88±316	✓	
TEM.2-1	19:51	6.10	12	2470	210	.58	21.3	427±6	318±147	✓	
0589 A.1-1	20:12	6.64	10	3600	225	.09	20.4	2686±38	3620±10	✓	noise on primary
A.2-1	20:30	6.16	13	4800	176	.02	20.1	3723±52	4020±10	✓	
A.3-1	20:48	6.53	12	5300	261	.09	23.4	2941±42	3623±7	✓	
A.4-1	21:04	6.16	11	5400	369	.04	21.0	2120±22	3486±6	✓	
TEM.3-1	21:23	6.25	12	610	262	.55	21.4	433±6	207±181	✓	
A.5-1	21:41	6.24	12	7600	287	.04	22.6	3660±51	3695±5	✓	
A.6-1	22:00	6.25	12	3000	296	.04	23.5	3018±26	3528±6	✓	— " —
A.7-1	22:18	6.38	11	5900	243	.11	22.3	3485±31	3590±6	✓	
(re) A.2-2	22:38	6.05	10	3300	136	-ve	18.1	4072±48	4003±6	✓	
(im) A.2-3	22:57	6.12	11	5100	478	.10	18.9	1922±39	3173±8	✓	
A.8-1	23:15	6.34	12	8500	454	.14	22.9	2758±40	3565±5	✓	— " —
TEM.4-1	23:31	6.16	12	360	151	.34	21.9	430±9	403±128	✓	
TEM.5-1	23:48	6.17	12	270	129	.15	21.4	425±8	487±208	✓	— " —

Date ..... **UWA mount no(s)** ..... **Page no.** .....

Note: Bold = constant for stds & unknowns.....check after each analysis; also check offsets.

Sample/ Std ID	Time on printout	UO/U 254/238	196 (zr) Kcps	206 cps	U ppm	f_{206} %	Sensit.	Age+/-1σ (Ma) 206/238	Age+/-1σ (Ma) 207/206	Offsets OK?
Alternative		*UO2/UO 270/254*	*194 (xt) 200 (tnt) 203 (mz)*	*206 cps*	*254 270 Kcps*	*204 cps*	*196/194 264 Kcps*	*206/238 206/254 206/270*	*207/206*	*Check after each!!!*
A.9-1	00:08	6.18	12	22	181	.03	21.9	3728±43	3613±7	✓
A.10-1	00:30	6.14	12	5700	227	.04	21.6	3649±40	3652±9	✓
(core) A.11-1	01:03	5.99	12	5600	189	.01	21.3	4127±38	4011±7	✓
A.11-2	01:22	6.44	11	5800	243	.09	21.2	3575±33	3992±4	✓
TEM.6-1										
~~A.12-1~~	01:39	6.09	12	300	136	-ve	21.3	419±7	582±123	✓
A.12-1	01:55	6.17	12	6500	318	.12	21.9	3145±44	3682±4	✓ noise on primary
A.13-1	02:12	6.14	12	7900	366	.12	21.5	3265±33	3638±8	✓
A.14-1	02:28	5.99	12	2200	91	.23	21	3667±50	3617±8	✓
A.15-1	02:50	6.19	12	2200	85	.05	20.9	3921±65	3800±11	✓
A.16-1	03:12	6.38	11	5200	223	.04	22.3	3400±46	3666±6	✓
A.16-1b	03:27	6.12	12	5000	200	.01	23.4	3450±42	3662±5	✓
A.17-1	03:44	6.24	12	6100	251	.04	21.7	3611±34	3620±11	✓
TEM.7-1	04:01	6.27	11	250	131	1.7	19.6	413±12	140±296	✓
A.18-1	04:19	6.16	12	5400	196	.05	21.9	3917±35	3860±4	✓
A.18-2	04:36	5.92	13	4000	185	.10	22.6	3947±40	3859±6	✓ " at end
A.19-1	04:53	6.01	12	4000	162	.09	21.3	3597±36	3744±6	✓
A.20-1	05:13	6.41	12	8200	436	.03	22.9	2769±22	3687±4	✓
TEM.8-1	05:32	5.95	13	240	104	1.6	22.7	430±14	-	✓ " 10% drop
A.21-1	05:49	6.32	11	6500	486	0.12	21.8	2345±18	3384±6	✓
A.22-1	06:06	6.16	11	2400	101	.06	20.8	3921±64	3732±8	✓
A.23-1	06:24	5.99	11	6000	273	.02	20.3	3664±30	3726±4	✓
Fixed print A.24-1	06:40	6.39	10	5300	251	.23	20.2	3528±34	3811±6	✓
TEM.9-1	07:00	6.17	12	260	115	.17	22.0	431±9	478±266	✓
A.25-1	07:24	6.10	12	8600	382	.02	21.9	3389±28	3805±4	✓
A.26-1	07:41	6.26	12	4200	170	.04	22.3	3707±38	3699±7	✓
A.27-1	07:58	6.17	12	2600	108	.08	21.7	3702±71	3599±11	✓