

3

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2	LIF	Mn T	1	146.006	115.0(10.0)	15.0(5.0)	15.0(5.0)
3	PETJ	K T	1	119.829	61.0(10.0)	40.0(5.0)	32.0(5.0)
5	TAPH	Na T	1	129.353	181.0(10.0)	111.0(5.0)	59.0(5.0)
1	TAP	Si T	1	77.214	50302.8(10.0)	736.1(5.0)	126.0(5.0)
2	LIF	Fe T	1	134.430	2722.8(10.0)	27.0(5.0)	20.0(5.0)
3	PETJ	Ca T	1	107.560	133.0(10.0)	63.0(5.0)	49.0(5.0)
5	TAPH	Mg T	1	107.374	92401.7(10.0)	161.0(5.0)	149.0(5.0)
3	PETJ	Ti T	1	87.970	156.0(10.0)	114.0(5.0)	72.0(5.0)
1	TAP	Sr T	1	74.370	1081.0(30.0)	-0.0(0.0)	489.0(15.0)

Measurement over
Correction starts

Unknown Specimen No. 175

Group : adam? Sample : 170909
UNK No. : 175 Comment : MGST
Stage : X= 39.9413 Y= 25.2034 Z= 11.0725
Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
Dated on Sep 18 15:15 2004
WDS only No. of accumulation : 1

Curr.(A) : 1.510E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	2.5	19.6	11.4	73.21 ?	122
2 Mn	146.006	8.5	3.0	3.0	14.17	346
3 K	119.829	-1.1	8.0	6.4	100.00 ?	110
4 Ba	89.098	0.8	77.4	70.8	470.81 ?	257
5 Na	129.353	1.1	22.2	11.8	170.40 ?	124
6 Si	77.214	4944.1	147.2	25.2	0.46	288
7 Fe	134.430	267.6	5.4	4.0	1.97	367
8 Ca	107.560	2.1	12.6	9.8	74.54 ?	142
9 Mg	107.374	9209.2	32.2	29.8	0.33	129
10 Sr	74.370	3.4	0.0	32.6	31.92	162
11 Ti	87.970	-3.0	22.8	14.4	100.00 ?	230

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.5458	0.0068	0.6121	0.9485	1.0106	1.6927	1.4057
Mn	0.9834	0.0000	1.0023	0.7833	1.0609	1.2006	1.0740
Ba	0.9618	0.0155	1.0549	0.5609	1.2469	1.3347	1.1595
Na	0.4491	0.0088	0.5361	0.9721	0.9956	1.9108	1.1168
Si	0.6669	0.0001	0.7318	0.9669	1.0182	1.3878	1.1933
Fe	0.9873	0.0000	1.0034	0.7948	1.0600	1.1829	1.1076
Ca	0.9306	0.0040	0.9639	0.8999	1.0528	1.0906	1.0169
Mg	0.6014	0.0037	0.6894	0.9867	1.0030	1.4602	1.0008
Sr	0.7015	0.0000	0.9456	0.6569	1.2219	1.3175	1.2409

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	0.0129	0.0243	0.0128	0.0243	0.0042	1.4057	0.000076	0.000173
Mn	0.3162	0.4082	0.3154	0.4072	0.0510	1.0740	0.002633	0.008082
K	0.00	0.00	0.00	0.00	0.000	0.8782	0.00000	-0.00067 ?
Ba	0.0057	0.0064	0.0057	0.0064	0.0004	1.1595	0.000043	0.000084 ?
Na	0.0061	0.0083	0.0061	0.0082	0.0024	1.1168	0.000032	0.000622 ?
Si	19.12	40.90	19.07	40.80	6.037	1.1933	0.13780	0.66752
Fe	8.71	11.21	8.69	11.18	1.384	1.1076	0.07367	0.11248

Ca	0.0145	0.0202	0.0144	0.0202	0.0032	1.0169	0.000133	0.000414
Mg	28.72	47.62	28.65	47.50	10.477	1.0008	0.19674	0.99320
Sr	0.0395	0.0467	0.0394	0.0466	0.0040	1.2409	0.000300	0.000667
Ti	0.00	0.00	0.00	0.00	0.000	0.9260	0.00000	-0.00036 ?
O	43.30	-	43.19	-	24.000	-	-	-

Total: 100.25 100.25 100.00 100.00 17.962

 UNK No. = 176 ./adam?/170909 dated Sat Sep 18 15:16:08 2004
 11 Elements WDS only X= 39.810 Y= 25.199 Z= 11.072
 Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
 Probe Current = 1.510E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
4 PETH	Ba T	1	89.098	734.1(10.0)	419.0(5.0)	340.0(5.0)
1 TAP	Al T	1	90.481	199.0(10.0)	101.0(5.0)	69.0(5.0)
2 LIF	Mn T	1	146.006	102.0(10.0)	15.0(5.0)	16.0(5.0)
3 PETJ	K T	1	119.829	77.0(10.0)	42.0(5.0)	30.0(5.0)
5 TAPH	Na T	1	129.353	189.0(10.0)	107.0(5.0)	68.0(5.0)
1 TAP	Si T	1	77.214	49658.8(10.0)	799.1(5.0)	132.0(5.0)
2 LIF	Fe T	1	134.430	2831.9(10.0)	29.0(5.0)	17.0(5.0)
3 PETJ	Ca T	1	107.560	122.0(10.0)	56.0(5.0)	54.0(5.0)
5 TAPH	Mg T	1	107.374	92200.7(10.0)	185.0(5.0)	128.0(5.0)
3 PETJ	Ti T	1	87.970	161.0(10.0)	79.0(5.0)	63.0(5.0)
1 TAP	Sr T	1	74.370	1099.0(30.0)	-0.0(0.0)	536.0(15.0)

Measurement over
 Correction starts

Unknown Specimen No. 176
 Group : adam? Sample : 170909
 UNK No. : 176 Comment : MGST
 Stage : X= 39.8104 Y= 25.1991 Z= 11.0725
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:17 2004
 WDS only No. of accumulation : 1

Curr. (A) : 1.510E-08

Element	Peak (mm)	Net (cps)	Bg-	Bg+	S.D. (%)	D.L. (ppm)
1 Al	90.481	2.9	20.2	13.8	66.24 ?	127
2 Mn	146.006	7.1	3.0	3.2	16.24	352
3 K	119.829	0.5	8.4	6.0	244.13 ?	110
4 Ba	89.098	-3.6	83.8	68.0	100.00 ?	261
5 Na	129.353	1.4	21.4	13.6	136.33 ?	126
6 Si	77.214	4872.8	159.8	26.4	0.46	299
7 Fe	134.430	278.6	5.8	3.4	1.93	363
8 Ca	107.560	1.2	11.2	10.8	126.93 ?	140
9 Mg	107.374	9188.8	37.0	25.6	0.33	130
10 Sr	74.370	0.9	0.0	35.7	122.79 ?	169
11 Ti	87.970	1.9	15.8	12.6	91.62 ?	201

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.5444	0.0067	0.6106	0.9491	1.0104	1.6966	1.4089
Mn	0.9835	0.0000	1.0023	0.7837	1.0608	1.2001	1.0735
Na	0.4469	0.0087	0.5335	0.9727	0.9953	1.9196	1.1219
Si	0.6657	0.0001	0.7305	0.9675	1.0180	1.3898	1.1950
Fe	0.9873	0.0000	1.0034	0.7953	1.0599	1.1823	1.1071
Ca	0.9306	0.0042	0.9640	0.9005	1.0526	1.0899	1.0162
Mg	0.5994	0.0037	0.6871	0.9873	1.0027	1.4647	1.0039
Sr	0.7003	0.0000	0.9441	0.6573	1.2216	1.3192	1.2425
Ti	0.9623	0.0135	0.9901	0.8124	1.0583	1.1590	1.0733

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	0.0149	0.0282	0.0149	0.0281	0.0049	1.4089	0.000088	0.000200
Mn	0.2640	0.3408	0.2636	0.3404	0.0428	1.0735	0.002200	0.006751
K	0.0038	0.0046	0.0038	0.0046	0.0009	0.9977	0.000034	0.000306 ?
Ba	0.00	0.00	0.00	0.00	0.000	0.8688	0.000000	-0.00037 ?
Na	0.0078	0.0106	0.0078	0.0106	0.0030	1.1219	0.000041	0.000792 ?
Si	18.87	40.38	18.85	40.32	5.982	1.1950	0.13582	0.65789
Fe	9.07	11.67	9.05	11.65	1.446	1.1071	0.07669	0.11710
Ca	0.0082	0.0115	0.0082	0.0115	0.0018	1.0162	0.000076	0.000236 ?
Mg	28.75	47.67	28.71	47.60	10.529	1.0039	0.19631	0.99100
Sr	0.0104	0.0123	0.0104	0.0122	0.0011	1.2425	0.000079	0.000175 ?
Ti	0.0147	0.0245	0.0146	0.0244	0.0027	1.0733	0.000127	0.000228 ?
O	43.13	-	43.07	-	24.000	-	-	-

Total: 100.14 100.14 100.00 100.00 18.014

UNK No. = 177 ./adam?/170909 dated Sat Sep 18 15:18:09 2004
11 Elements WDS only X= 39.575 Y= 25.256 Z= 11.066
Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
Probe Current = 1.510E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
2 LIF	Mn T	1	146.006	101.0(10.0)	14.0(5.0)	14.0(5.0)
3 PETJ	K T	1	119.829	93.0(10.0)	40.0(5.0)	37.0(5.0)
4 PETH	Ba T	1	89.098	749.1(10.0)	416.0(5.0)	358.0(5.0)
1 TAP	Al T	1	90.481	168.0(10.0)	117.0(5.0)	73.0(5.0)
5 TAPH	Na T	1	129.353	155.0(10.0)	113.0(5.0)	77.0(5.0)
2 LIF	Fe T	1	134.430	2723.8(10.0)	29.0(5.0)	22.0(5.0)
3 PETJ	Ca T	1	107.560	120.0(10.0)	61.0(5.0)	65.0(5.0)
1 TAP	Si T	1	77.214	49791.2(10.0)	828.2(5.0)	131.0(5.0)
5 TAPH	Mg T	1	107.374	92602.8(10.0)	166.0(5.0)	139.0(5.0)
3 PETJ	Ti T	1	87.970	164.0(10.0)	86.0(5.0)	75.0(5.0)
1 TAP	Sr T	1	74.370	1094.0(30.0)	-0.0(0.0)	543.0(15.0)

Measurement over
Correction starts

Unknown Specimen No. 177

Group : adam? Sample : 170909
UNK No. : 177 Comment : MGST
Stage : X= 39.5755 Y= 25.2555 Z= 11.0660

Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:20 2004
 WDS only No. of accumulation : 1

Curr.(A) : 1.510E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	-2.2	23.4	14.6	100.00 ?	135
2 Mn	146.006	7.3	2.8	2.8	15.56	335
3 K	119.829	1.6	8.0	7.4	81.49 ?	114
4 Ba	89.098	-3.3	83.2	71.6	100.00 ?	264
5 Na	129.353	-3.5	22.6	15.4	100.00 ?	131
6 Si	77.214	4883.2	165.6	26.2	0.46	304
7 Fe	134.430	267.3	5.8	4.4	1.97	382
8 Ca	107.560	-0.6	12.2	13.0	100.00 ?	150
9 Mg	107.374	9229.8	33.2	27.8	0.33	128
10 Sr	74.370	0.3	0.0	36.2	412.94 ?	170
11 Ti	87.970	0.3	17.2	15.0	600.93 ?	214

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Mn	0.9835	0.0000	1.0023	0.7831	1.0610	1.2007	1.0741
K	0.9060	0.0023	0.9448	0.8856	1.0489	1.1368	0.9983
Si	0.6662	0.0001	0.7311	0.9668	1.0183	1.3893	1.1946
Fe	0.9873	0.0000	1.0034	0.7947	1.0601	1.1830	1.1077
Mg	0.6018	0.0037	0.6898	0.9865	1.0031	1.4595	1.0003

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	0.00	0.00	0.00	0.00	0.000	0.8304	0.00000	-0.00015 ?
Mn	0.2715	0.3506	0.2722	0.3515	0.0441	1.0741	0.002261	0.006941
K	0.0123	0.0148	0.0123	0.0149	0.0028	0.9983	0.000108	0.000980
Ba	0.00	0.00	0.00	0.00	0.000	0.8688	0.00000	-0.00034 ?
Na	0.00	0.00	0.00	0.00	0.000	0.5844	0.00000	-0.00198 ?
Si	18.91	40.46	18.96	40.55	6.003	1.1946	0.13611	0.65930
Fe	8.71	11.20	8.73	11.23	1.390	1.1077	0.07358	0.11235
Ca	0.00	0.00	0.00	0.00	0.000	0.9324	0.00000	-0.00012 ?
Mg	28.79	47.73	28.86	47.85	10.558	1.0003	0.19718	0.99542
Sr	0.0031	0.0036	0.0031	0.0037	0.0003	1.2421	0.000023	0.000052 ?
Ti	0.0023	0.0039	0.0023	0.0039	0.0004	1.0743	0.000020	0.000036 ?
O	43.07	-	43.17	-	24.000	-	-	-

 Total: 99.76 99.76 100.00 100.00 17.998

UNK No. = 178 ./adam?/170909 dated Sat Sep 18 15:20:12 2004

11 Elements WDS only X= 40.218 Y= 34.999 Z= 11.023

Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000

Probe Current = 1.511E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
4 PETH	Ba T	1	89.098	700.1(10.0)	352.0(5.0)	292.0(5.0)
3 PETJ	K T	1	119.829	93.0(10.0)	45.0(5.0)	31.0(5.0)
5 TAPH	Na T	1	129.353	132.0(10.0)	86.0(5.0)	68.0(5.0)
1 TAP	Al T	1	90.481	145652.8(10.0)	223.0(5.0)	100.0(5.0)
2 LIF	Mn T	1	146.006	36.0(10.0)	20.0(5.0)	16.0(5.0)

3	PETJ	Ca	T	1	107.560	89.0(10.0)	65.0(5.0)	41.0(5.0)
1	TAP	Si	T	1	77.214	250.0(10.0)	147.0(5.0)	89.0(5.0)
2	LIF	Fe	T	1	134.430	36.0(10.0)	27.0(5.0)	18.0(5.0)
5	TAPH	Mg	T	1	107.374	319.0(10.0)	193.0(5.0)	98.0(5.0)
3	PETJ	Ti	T	1	87.970	143.0(10.0)	84.0(5.0)	73.0(5.0)
1	TAP	Sr	T	1	74.370	480.0(30.0)	-0.0(0.0)	218.0(15.0)

Measurement over
Correction starts

Unknown Specimen No. 178

Group	: adam?	Sample	: 170909
UNK No.	: 178	Comment	: ALST
Stage	: X= 40.2179 Y= 34.9988 Z= 11.0230		
Acc. Voltage	: 15.0 (kV)	Probe Dia.	: 5 Scan : On Mag : 300000
Dated on Sep 18 15:22 2004			
WDS only	No. of accumulation : 1		

Curr.(A) : 1.511E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	14533.0	44.6	20.0	0.26	175
2 Mn	146.006	-0.0	4.0	3.2	100.00 ?	379
3 K	119.829	1.7	9.0	6.2	76.47 ?	113
4 Ba	89.098	4.7	70.4	58.4	78.16 ?	241
5 Na	129.353	-2.2	17.2	13.6	100.00 ?	118
6 Si	77.214	1.4	29.4	17.8	157.41 ?	151
7 Fe	134.430	-0.9	5.4	3.6	100.00 ?	359
8 Ca	107.560	-1.7	13.0	8.2	100.00 ?	138
9 Mg	107.374	2.8	38.6	19.6	88.21 ?	125
10 Sr	74.370	1.5	0.0	14.5	49.82 ?	108
11 Ti	87.970	-1.4	16.8	14.6	100.00 ?	211

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7704	0.0000	0.8641	0.9433	1.0184	1.2047	1.0004
K	0.9037	0.0000	0.9424	0.8815	1.0553	1.1406	1.0016
Ba	0.9610	0.0000	1.0540	0.5584	1.2530	1.3561	1.1781
Si	0.5523	0.0000	0.6061	0.9617	1.0259	1.6723	1.4379
Mg	0.6626	0.0243	0.7595	0.9812	1.0107	1.2962	0.8883
Sr	0.5903	0.0000	0.7958	0.6534	1.2311	1.5622	1.4714

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	53.07	100.27	52.87	99.90	15.992	1.0004	0.44078	1.00297
Mn	0.00	0.00	0.00	0.00	0.000	0.8945	-0.00000	-0.00000 ?
K	0.0131	0.0158	0.0131	0.0157	0.0027	1.0016	0.000115	0.001040
Ba	0.0333	0.0372	0.0332	0.0371	0.0020	1.1781	0.000246	0.000481
Na	0.00	0.00	0.00	0.00	0.000	0.5844	0.00000	-0.00124 ?
Si	0.0065	0.0140	0.0065	0.0139	0.0019	1.4379	0.000039	0.000189 ?
Fe	0.00	0.00	0.00	0.00	0.000	0.9364	0.00000	-0.00038 ?
Ca	0.00	0.00	0.00	0.00	0.000	0.9324	0.00000	-0.00033 ?
Mg	0.0078	0.0129	0.0077	0.0128	0.0026	0.8883	0.000060	0.000302 ?
Sr	0.0200	0.0237	0.0199	0.0236	0.0019	1.4714	0.000128	0.000285
Ti	0.00	0.00	0.00	0.00	0.000	0.9260	0.00000	-0.00017 ?
O	47.23	-	47.05	-	24.000	-	-	-

Total: 100.37 100.37 100.00 100.00 16.003

 UNK No. = 179 ./adam?/170909 dated Sat Sep 18 15:22:15 2004
 11 Elements WDS only X= 39.795 Y= 34.919 Z= 11.014
 Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
 Probe Current = 1.510E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
4 PETH	Ba T	1	89.098	686.1(10.0)	360.0(5.0)	331.0(5.0)
1 TAP	Al T	1	90.481	144821.9(10.0)	208.0(5.0)	106.0(5.0)
5 TAPH	Na T	1	129.353	172.0(10.0)	72.0(5.0)	56.0(5.0)
2 LIF	Mn T	1	146.006	36.0(10.0)	15.0(5.0)	12.0(5.0)
3 PETJ	K T	1	119.829	82.0(10.0)	39.0(5.0)	28.0(5.0)
1 TAP	Si T	1	77.214	234.0(10.0)	138.0(5.0)	99.0(5.0)
2 LIF	Fe T	1	134.430	44.0(10.0)	21.0(5.0)	21.0(5.0)
3 PETJ	Ca T	1	107.560	88.0(10.0)	67.0(5.0)	42.0(5.0)
5 TAPH	Mg T	1	107.374	295.0(10.0)	199.0(5.0)	116.0(5.0)
3 PETJ	Ti T	1	87.970	150.0(10.0)	63.0(5.0)	67.0(5.0)
1 TAP	Sr T	1	74.370	531.0(30.0)	-0.0(0.0)	236.0(15.0)

Measurement over
 Correction starts

Unknown Specimen No. 179

Group : adam? Sample : 170909
 UNK No. : 179 Comment : ALST
 Stage : X= 39.7952 Y= 34.9188 Z= 11.0135
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:24 2004
 WDS only No. of accumulation : 1

Curr.(A) : 1.510E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	14450.8	41.6	21.2	0.26	173
2 Mn	146.006	0.9	3.0	2.4	88.19 ?	329
3 K	119.829	1.5	7.8	5.6	81.38 ?	106
4 Ba	89.098	-0.9	72.0	66.2	100.00 ?	248
5 Na	129.353	4.4	14.4	11.2	39.36 ?	108
6 Si	77.214	-0.3	27.6	19.8	100.00 ?	151
7 Fe	134.430	0.2	4.2	4.2	463.68 ?	347
8 Ca	107.560	-2.1	13.4	8.4	100.00 ?	140
9 Mg	107.374	-2.0	39.8	23.2	100.00 ?	130
10 Sr	74.370	2.0	0.0	15.7	39.07 ?	112
11 Ti	87.970	2.0	12.6	13.4	83.67 ?	192

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7705	0.0000	0.8641	0.9432	1.0184	1.2047	1.0004
Mn	0.9831	0.0000	1.0019	0.7800	1.0651	1.2014	1.0747
K	0.9038	0.0000	0.9424	0.8815	1.0554	1.1406	1.0016
Na	0.5170	0.0110	0.6170	0.9665	1.0031	1.6535	0.9664
Fe	0.9870	0.0000	1.0031	0.7916	1.0638	1.1839	1.1086

Sr	0.5904	0.0000	0.7959	0.6533	1.2312	1.5620	1.4712
Ti	0.9614	0.0001	0.9892	0.8083	1.0639	1.1755	1.0885

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	52.84	99.84	52.84	99.85	15.988	1.0004	0.43858	0.99796
Mn	0.0335	0.0433	0.0335	0.0433	0.0050	1.0747	0.000279	0.000856
K	0.0116	0.0140	0.0116	0.0140	0.0024	1.0016	0.000102	0.000919
Ba	0.00	0.00	0.00	0.00	0.000	0.8688	0.00000	-0.00009 ?
Na	0.0212	0.0286	0.0212	0.0286	0.0075	0.9664	0.000128	0.002490
Si	0.00	0.00	0.00	0.00	0.000	0.8598	0.00000	-0.00004 ?
Fe	0.0065	0.0084	0.0065	0.0084	0.0010	1.1086	0.000055	0.000084 ?
Ca	0.00	0.00	0.00	0.00	0.000	0.9324	0.00000	-0.00041 ?
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00022 ?
Sr	0.0268	0.0317	0.0268	0.0317	0.0025	1.4712	0.000172	0.000382
Ti	0.0157	0.0261	0.0157	0.0261	0.0027	1.0885	0.000133	0.000240 ?
O	47.04	-	47.04	-	24.000	-	-	-

Total:	99.99	99.99	100.00	100.00	16.009			

UNK No. = 180 ./adam?/170909 dated Sat Sep 18 15:24:14 2004
11 Elements WDS only X= 39.989 Y= 34.934 Z= 11.021
Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
Probe Current = 1.510E-08 (A)

Channel	Element	Acm	Peak	Peak cnt	sec	BG_L cnt	sec	BG_U cnt	sec
4 PETH	Ba T	1	89.098	707.1	(10.0)	333.0	(5.0)	305.0	(5.0)
1 TAP	Al T	1	90.481	146249.5	(10.0)	222.0	(5.0)	126.0	(5.0)
5 TAPH	Na T	1	129.353	146.0	(10.0)	81.0	(5.0)	63.0	(5.0)
2 LIF	Mn T	1	146.006	14.0	(10.0)	19.0	(5.0)	15.0	(5.0)
3 PETJ	K T	1	119.829	81.0	(10.0)	38.0	(5.0)	31.0	(5.0)
1 TAP	Si T	1	77.214	233.0	(10.0)	132.0	(5.0)	90.0	(5.0)
2 LIF	Fe T	1	134.430	38.0	(10.0)	32.0	(5.0)	15.0	(5.0)
3 PETJ	Ca T	1	107.560	97.0	(10.0)	44.0	(5.0)	46.0	(5.0)
5 TAPH	Mg T	1	107.374	287.0	(10.0)	178.0	(5.0)	123.0	(5.0)
3 PETJ	Ti T	1	87.970	129.0	(10.0)	82.0	(5.0)	75.0	(5.0)
1 TAP	Sr T	1	74.370	483.0	(30.0)	-0.0	(0.0)	234.0	(15.0)

Measurement over
Correction starts

Unknown Specimen No. 180
Group : adam? Sample : 170909
UNK No. : 180 Comment : ALST
Stage : X= 39.9886 Y= 34.9338 Z= 11.0210
Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
Dated on Sep 18 15:26 2004
WDS only No. of accumulation : 1

Curr.(A) : 1.510E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	14590.2	44.4	25.2	0.26	182
2 Mn	146.006	-2.0	3.8	3.0	100.00 ?	369

3 K	119.829	1.2	7.6	6.2	102.06 ?	107
4 Ba	89.098	6.5	66.6	61.0	56.86 ?	239
5 Na	129.353	0.2	16.2	12.6	851.47 ?	114
6 Si	77.214	1.1	26.4	18.0	193.83 ?	146
7 Fe	134.430	-0.9	6.4	3.0	100.00 ?	367
8 Ca	107.560	0.7	8.8	9.2	195.35 ?	127
9 Mg	107.374	-1.4	35.6	24.6	100.00 ?	127
10 Sr	74.370	0.5	0.0	15.6	146.52 ?	112
11 Ti	87.970	-2.8	16.4	15.0	100.00 ?	211

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7704	0.0000	0.8640	0.9433	1.0184	1.2048	1.0005
K	0.9038	0.0000	0.9424	0.8815	1.0553	1.1405	1.0016
Ba	0.9610	0.0000	1.0540	0.5584	1.2530	1.3561	1.1781
Si	0.5523	0.0000	0.6060	0.9617	1.0259	1.6724	1.4380
Sr	0.5902	0.0000	0.7957	0.6534	1.2311	1.5623	1.4715

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	53.27	100.66	52.88	99.91	15.994	1.0005	0.44281	1.00758
Mn	0.00	0.00	0.00	0.00	0.000	0.8945	0.00000	-0.00190 ?
K	0.0093	0.0112	0.0092	0.0111	0.0019	1.0016	0.000081	0.000735 ?
Ba	0.0457	0.0510	0.0453	0.0506	0.0027	1.1781	0.000337	0.000659
Na	0.0010	0.0013	0.0010	0.0013	0.0003	0.9662	0.000006	0.000113 ?
Si	0.0051	0.0110	0.0051	0.0109	0.0015	1.4380	0.000031	0.000149 ?
Fe	0.00	0.00	0.00	0.00	0.000	0.9364	0.00000	-0.00038 ?
Ca	0.0048	0.0068	0.0048	0.0067	0.0010	1.0215	0.000044	0.000138 ?
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00015 ?
Sr	0.0068	0.0081	0.0068	0.0080	0.0006	1.4715	0.000044	0.000097 ?
Ti	0.00	0.00	0.00	0.00	0.000	0.9260	0.00000	-0.00034 ?
O	47.41	-	47.05	-	24.000	-	-	-

Total: 100.75 100.75 100.00 100.00 16.002

UNK No. = 181 ./adam?/170909 dated Sat Sep 18 15:26:15 2004
11 Elements WDS only X= 45.181 Y= 25.170 Z= 11.116
Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
Probe Current = 1.511E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
2 LIF	Mn T	1	146.006	63.0(10.0)	19.0(5.0)	11.0(5.0)
4 PETH	Ba T	1	89.098	871.1(10.0)	462.0(5.0)	384.0(5.0)
3 PETJ	K T	1	119.829	105.0(10.0)	55.0(5.0)	40.0(5.0)
1 TAP	Al T	1	90.481	220.0(10.0)	142.0(5.0)	94.0(5.0)
5 TAPH	Na T	1	129.353	164.0(10.0)	83.0(5.0)	67.0(5.0)
2 LIF	Fe T	1	134.430	141.0(10.0)	28.0(5.0)	24.0(5.0)
1 TAP	Si T	1	77.214	74899.0(10.0)	1263.4(5.0)	180.0(5.0)
3 PETJ	Ca T	1	107.560	51060.2(10.0)	83.0(5.0)	63.0(5.0)
5 TAPH	Mg T	1	107.374	362.0(10.0)	163.0(5.0)	128.0(5.0)
3 PETJ	Ti T	1	87.970	184.0(10.0)	105.0(5.0)	78.0(5.0)
1 TAP	Sr T	1	74.370	1512.1(30.0)	-0.0(0.0)	772.0(15.0)

Measurement over
Correction starts

Unknown Specimen No. 181

Group : adam? Sample : 170909
 UNK No. : 181 Comment : WoST
 Stage : X= 45.1814 Y= 25.1701 Z= 11.1155
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:28 2004
 WDS only No. of accumulation : 1

Curr. (A) : 1.511E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	-1.6	28.4	18.8	100.00 ?	150
2 Mn	146.006	3.3	3.8	2.2	29.22	346
3 K	119.829	1.0	11.0	8.0	141.42 ?	126
4 Ba	89.098	1.4	92.4	76.8	302.40 ?	276
5 Na	129.353	1.4	16.6	13.4	126.57 ?	117
6 Si	77.214	7345.6	252.7	36.0	0.38	372
7 Fe	134.430	8.9	5.6	4.8	15.61	385
8 Ca	107.560	5091.4	16.6	12.6	0.44	162
9 Mg	107.374	7.1	32.6	25.6	35.99 ?	125
10 Sr	74.370	-1.1	0.0	51.5	100.00 ?	203
11 Ti	87.970	0.1	21.0	15.6	1915.74 ?	228

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Mn	0.9620	0.0000	0.9804	0.7949	1.0539	1.2176	1.0891
K	0.9247	0.0711	0.9642	0.9000	1.0380	1.0365	0.9102
Ba	0.9148	0.0004	1.0034	0.5694	1.2368	1.4146	1.2290
Na	0.4180	0.0032	0.4988	0.9892	0.9832	2.0546	1.2008
Si	0.7891	0.0042	0.8659	0.9834	1.0055	1.1631	1.0001
Fe	0.9706	0.0000	0.9864	0.8064	1.0537	1.1930	1.1171
Ca	0.9446	0.0002	0.9784	0.9141	1.0426	1.0723	0.9998
Mg	0.5717	0.0071	0.6553	1.0039	0.9903	1.5241	1.0446

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	0.00	0.00	0.00	0.00	0.000	0.8304	0.00000	-0.00011 ?
Mn	0.1244	0.1606	0.1248	0.1612	0.0212	1.0891	0.001022	0.003136
K	0.0070	0.0084	0.0070	0.0085	0.0017	0.9102	0.000068	0.000612 ?
Ba	0.0101	0.0113	0.0102	0.0113	0.0007	1.2290	0.000072	0.000140 ?
Na	0.0084	0.0113	0.0084	0.0113	0.0034	1.2008	0.000041	0.000792 ?
Si	23.80	50.91	23.88	51.09	7.938	1.0001	0.20460	0.99110
Fe	0.2921	0.3758	0.2932	0.3772	0.0490	1.1171	0.002449	0.003739
Ca	34.40	48.13	34.52	48.30	8.040	0.9998	0.32074	1.00189
Mg	0.0231	0.0383	0.0232	0.0384	0.0089	1.0446	0.000152	0.000765
Sr	0.00	0.00	0.00	0.00	0.000	0.9419	0.00000	-0.00021 ?
Ti	0.0008	0.0014	0.0008	0.0014	0.0002	1.1355	0.000007	0.000012 ?
O	40.99	-	41.13	-	24.000	-	-	-

Total:	99.65	99.65	100.00	100.00	16.064			

 UNK No. = 182 ./adam?/170909 dated Sat Sep 18 15:28:17 2004

11 Elements WDS only X= 45.067 Y= 25.169 Z= 11.114
 Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
 Probe Current = 1.510E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
4	PETH Ba T	1	89.098	824.1(10.0)	423.0(5.0)	337.0(5.0)
2	LIF Mn T	1	146.006	74.0(10.0)	25.0(5.0)	11.0(5.0)
3	PETJ K T	1	119.829	92.0(10.0)	56.0(5.0)	41.0(5.0)
5	TAPH Na T	1	129.353	186.0(10.0)	94.0(5.0)	71.0(5.0)
1	TAP Al T	1	90.481	205.0(10.0)	145.0(5.0)	98.0(5.0)
2	LIF Fe T	1	134.430	134.0(10.0)	29.0(5.0)	28.0(5.0)
3	PETJ Ca T	1	107.560	51066.2(10.0)	85.0(5.0)	74.0(5.0)
1	TAP Si T	1	77.214	75557.8(10.0)	1276.4(5.0)	180.0(5.0)
5	TAPH Mg T	1	107.374	338.0(10.0)	169.0(5.0)	128.0(5.0)
3	PETJ Ti T	1	87.970	193.0(10.0)	87.0(5.0)	89.0(5.0)
1	TAP Sr T	1	74.370	1503.1(30.0)	-0.0(0.0)	720.0(15.0)

Measurement over
 Correction starts

Unknown Specimen No. 182

Group : adam? Sample : 170909
 UNK No. : 182 Comment : WoST
 Stage : X= 45.0669 Y= 25.1687 Z= 11.1135
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:30 2004
 WDS only No. of accumulation : 1

Curr. (A) : 1.510E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	-3.8	29.0	19.6	100.00 ?	152
2 Mn	146.006	3.8	5.0	2.2	27.60	379
3 K	119.829	-0.5	11.2	8.2	100.00 ?	127
4 Ba	89.098	5.2	84.6	67.4	77.93 ?	262
5 Na	129.353	2.1	18.8	14.2	89.21 ?	122
6 Si	77.214	7410.1	255.3	36.0	0.37	374
7 Fe	134.430	7.7	5.8	5.6	17.95	404
8 Ca	107.560	5090.7	17.0	14.8	0.44	169
9 Mg	107.374	4.1	33.8	25.6	61.46 ?	126
10 Sr	74.370	2.1	0.0	48.0	61.54 ?	196
11 Ti	87.970	1.7	17.4	17.8	113.00 ?	224

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Mn	0.9620	0.0000	0.9804	0.7949	1.0539	1.2175	1.0891
Ba	0.9150	0.0003	1.0036	0.5694	1.2368	1.4144	1.2288
Na	0.4182	0.0032	0.4991	0.9892	0.9833	2.0535	1.2002
Si	0.7892	0.0042	0.8660	0.9834	1.0055	1.1630	1.0000
Fe	0.9706	0.0000	0.9864	0.8064	1.0537	1.1930	1.1171
Ca	0.9444	0.0002	0.9783	0.9141	1.0426	1.0723	0.9999
Mg	0.5718	0.0071	0.6554	1.0039	0.9904	1.5238	1.0443
Sr	0.8155	0.0064	1.0994	0.6680	1.2068	1.1212	1.0560
Ti	0.9159	0.0003	0.9424	0.8245	1.0495	1.2260	1.1353

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
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Al	0.00	0.00	0.00	0.00	0.000	0.8304	0.00000	-0.00026 ?
Mn	0.1433	0.1851	0.1431	0.1848	0.0243	1.0891	0.001177	0.003613
K	0.00	0.00	0.00	0.00	0.000	0.8782	0.00000	-0.00031 ?
Ba	0.0379	0.0423	0.0378	0.0422	0.0026	1.2288	0.000268	0.000524
Na	0.0126	0.0170	0.0126	0.0169	0.0051	1.2002	0.000061	0.001188
Si	24.02	51.38	23.98	51.29	7.961	1.0000	0.20654	1.00048
Fe	0.2529	0.3254	0.2525	0.3248	0.0422	1.1171	0.002120	0.003237
Ca	34.41	48.15	34.35	48.07	7.994	0.9999	0.32091	1.00242
Mg	0.0133	0.0221	0.0133	0.0221	0.0051	1.0443	0.000088	0.000442
Sr	0.0206	0.0243	0.0205	0.0243	0.0022	1.0560	0.000183	0.000408
Ti	0.0139	0.0232	0.0139	0.0231	0.0027	1.1353	0.000113	0.000204 ?
O	41.24	-	41.17	-	24.000	-	-	-

Total:	100.17	100.17	100.00	100.00	16.039			

 UNK No. = 183 ./adam?/170909 dated Sat Sep 18 15:30:20 2004
 11 Elements WDS only X= 44.878 Y= 25.190 Z= 11.111
 Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
 Probe Current = 1.511E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
4 PETH	Ba T	1	89.098	790.1(10.0)	433.0(5.0)	366.0(5.0)
2 LIF	Mn T	1	146.006	74.0(10.0)	29.0(5.0)	17.0(5.0)
5 TAPH	Na T	1	129.353	173.0(10.0)	101.0(5.0)	69.0(5.0)
1 TAP	Al T	1	90.481	232.0(10.0)	124.0(5.0)	103.0(5.0)
3 PETJ	K T	1	119.829	106.0(10.0)	54.0(5.0)	45.0(5.0)
2 LIF	Fe T	1	134.430	146.0(10.0)	38.0(5.0)	26.0(5.0)
1 TAP	Si T	1	77.214	75707.3(10.0)	1304.4(5.0)	160.0(5.0)
3 PETJ	Ca T	1	107.560	51319.1(10.0)	83.0(5.0)	65.0(5.0)
5 TAPH	Mg T	1	107.374	368.0(10.0)	160.0(5.0)	125.0(5.0)
3 PETJ	Ti T	1	87.970	200.0(10.0)	92.0(5.0)	92.0(5.0)
1 TAP	Sr T	1	74.370	1496.1(30.0)	-0.0(0.0)	794.0(15.0)

Measurement over
 Correction starts

Unknown Specimen No. 183

Group : adam? Sample : 170909
 UNK No. : 183 Comment : WoST
 Stage : X= 44.8784 Y= 25.1897 Z= 11.1110
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:32 2004
 WDS only No. of accumulation : 1

Curr.(A) : 1.511E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	0.5	24.8	20.6	428.06 ?	147
2 Mn	146.006	2.8	5.8	3.4	39.12 ?	429
3 K	119.829	0.7	10.8	9.0	204.54 ?	129
4 Ba	89.098	-1.9	86.6	73.2	100.00 ?	268
5 Na	129.353	0.3	20.2	13.8	617.34 ?	124
6 Si	77.214	7424.3	260.9	32.0	0.37	375

7 Fe	134.430	8.2	7.6	5.2	17.67	428
8 Ca	107.560	5117.1	16.6	13.0	0.44	163
9 Mg	107.374	8.3	32.0	25.0	30.79	124
10 Sr	74.370	-3.1	0.0	52.9	100.00 ?	206
11 Ti	87.970	1.6	18.4	18.4	122.47 ?	229

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Mn	0.9620	0.0000	0.9804	0.7947	1.0540	1.2177	1.0893
Si	0.7894	0.0042	0.8662	0.9832	1.0056	1.1628	0.9999
Fe	0.9706	0.0000	0.9865	0.8063	1.0537	1.1932	1.1172
Ca	0.9445	0.0001	0.9784	0.9140	1.0427	1.0724	1.0000
Mg	0.5721	0.0071	0.6559	1.0037	0.9904	1.5230	1.0438
Ti	0.9158	0.0003	0.9423	0.8243	1.0496	1.2263	1.1356

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	0.0020	0.0037	0.0019	0.0037	0.0007	1.0863	0.000015	0.000034 ?
Mn	0.1056	0.1363	0.1052	0.1358	0.0179	1.0893	0.000867	0.002661
K	0.0049	0.0059	0.0049	0.0059	0.0012	0.9106	0.000047	0.000428 ?
Ba	0.00	0.00	0.00	0.00	0.000	0.8688	0.000000	-0.00019 ?
Na	0.0018	0.0024	0.0018	0.0024	0.0007	1.1998	0.000009	0.000170 ?
Si	24.04	51.43	23.96	51.25	7.953	0.9999	0.20680	1.00172
Fe	0.2692	0.3463	0.2682	0.3451	0.0448	1.1172	0.002256	0.003445
Ca	34.57	48.37	34.44	48.19	8.014	1.0000	0.32236	1.00694
Mg	0.0270	0.0448	0.0269	0.0446	0.0103	1.0438	0.000177	0.000895
Sr	0.00	0.00	0.00	0.00	0.000	0.9419	0.000000	-0.00060 ?
Ti	0.0131	0.0218	0.0130	0.0217	0.0025	1.1356	0.000107	0.000192 ?
O	41.33	-	41.18	-	24.000	-	-	

Total: 100.36 100.36 100.00 100.00 16.045

UNK No. = 184 ./adam?/170909 dated Sat Sep 18 15:32:22 2004
11 Elements WDS only X= 45.221 Y= 29.623 Z= 11.086
Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
Probe Current = 1.511E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
1 TAP	Al T	1	90.481	25366.6(10.0)	152.0(5.0)	101.0(5.0)
4 PETH	Ba T	1	89.098	755.1(10.0)	401.0(5.0)	352.0(5.0)
3 PETJ	K T	1	119.829	16425.6(10.0)	34.0(5.0)	37.0(5.0)
2 LIF	Mn T	1	146.006	30.0(10.0)	25.0(5.0)	15.0(5.0)
5 TAPH	Na T	1	129.353	1657.3(10.0)	100.0(5.0)	64.0(5.0)
1 TAP	Si T	1	77.214	90610.2(10.0)	1113.3(5.0)	707.1(5.0)
3 PETJ	Ca T	1	107.560	132.0(10.0)	63.0(5.0)	51.0(5.0)
2 LIF	Fe T	1	134.430	140.0(10.0)	13.0(5.0)	19.0(5.0)
5 TAPH	Mg T	1	107.374	286.0(10.0)	166.0(5.0)	121.0(5.0)
3 PETJ	Ti T	1	87.970	186.0(10.0)	90.0(5.0)	83.0(5.0)
1 TAP	Sr T	1	74.370	1692.1(30.0)	-0.0(0.0)	760.0(15.0)

Measurement over
Correction starts

Unknown Specimen No. 184

Group : adam? Sample : 170909
 UNK No. : 184 Comment : KST
 Stage : X= 45.2214 Y= 29.6229 Z= 11.0860
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:34 2004
 WDS only No. of accumulation : 1

Curr.(A) : 1.511E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	2511.4	30.4	20.2	0.64	155
2 Mn	146.006	-1.0	5.0	3.0	100.00 ?	400
3 K	119.829	1635.5	6.8	7.4	0.79	109
4 Ba	89.098	-0.5	80.2	70.4	100.00 ?	260
5 Na	129.353	149.3	20.0	12.8	2.86	122
6 Si	77.214	8879.0	222.7	141.4	0.34	418
7 Fe	134.430	10.8	2.6	3.8	12.14	302
8 Ca	107.560	1.8	12.6	10.2	87.14 ?	143
9 Mg	107.374	-0.1	33.2	24.2	100.00 ?	124
10 Sr	74.370	5.7	0.0	50.7	23.91	201
11 Ti	87.970	1.3	18.0	16.6	145.75 ?	222

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7356	0.0169	0.8251	0.9476	1.0107	1.2445	1.0334
K	0.9076	0.0001	0.9465	0.8849	1.0489	1.1382	0.9995
Na	0.4739	0.0054	0.5656	0.9712	0.9956	1.8189	1.0631
Si	0.7549	0.0018	0.8284	0.9660	1.0183	1.2250	1.0533
Fe	0.9812	0.0000	0.9972	0.7940	1.0601	1.1914	1.1156
Ca	0.9008	0.0001	0.9330	0.8990	1.0529	1.1321	1.0556
Sr	0.7844	0.0027	1.0575	0.6562	1.2220	1.1761	1.1077
Ti	0.9450	0.0004	0.9723	0.8112	1.0585	1.1974	1.1088

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	9.48	17.91	9.52	18.00	2.937	1.0334	0.07617	0.17332
Mn	0.00	0.00	0.00	0.00	0.000	0.8945	0.00000	-0.00095 ?
K	12.59	15.17	12.65	15.24	2.692	0.9995	0.11061	1.00076
Ba	0.00	0.00	0.00	0.00	0.000	0.8688	0.00000	-0.00005 ?
Na	0.7919	1.0675	0.7955	1.0724	0.2879	1.0631	0.004354	0.084448
Si	30.31	64.83	30.45	65.13	9.020	1.0533	0.24731	1.19800
Fe	0.3540	0.4554	0.3556	0.4575	0.0530	1.1156	0.002971	0.004537
Ca	0.0128	0.0180	0.0129	0.0180	0.0027	1.0556	0.000113	0.000354 ?
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00001 ?
Sr	0.0588	0.0695	0.0591	0.0699	0.0056	1.1077	0.000500	0.001113
Ti	0.0104	0.0173	0.0104	0.0174	0.0018	1.1088	0.000087	0.000156 ?
O	45.94	-	46.15	-	24.000	-	-	-

 Total: 99.54 99.54 100.00 100.00 15.000

UNK No. = 185 ./adam?/170909 dated Sat Sep 18 15:34:23 2004
 11 Elements WDS only X= 45.176 Y= 29.650 Z= 11.086
 Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
 Probe Current = 1.511E-08 (A)

Channel	Element	Acm	Peak	Peak cnt	sec	BG_L cnt	sec	BG_U cnt	sec
4	PETH	Ba	T	1	89.098	852.1(	10.0)	396.0(	5.0)
2	LIF	Mn	T	1	146.006	41.0(	10.0)	22.0(	5.0)
1	TAP	Al	T	1	90.481	25148.4(	10.0)	160.0(	5.0)
3	PETJ	K	T	1	119.829	16838.1(	10.0)	50.0(	5.0)
5	TAPH	Na	T	1	129.353	1628.3(	10.0)	81.0(	5.0)
2	LIF	Fe	T	1	134.430	161.0(	10.0)	25.0(	5.0)
1	TAP	Si	T	1	77.214	90550.0(	10.0)	1069.3(	5.0)
3	PETJ	Ca	T	1	107.560	123.0(	10.0)	46.0(	5.0)
5	TAPH	Mg	T	1	107.374	259.0(	10.0)	160.0(	5.0)
3	PETJ	Ti	T	1	87.970	188.0(	10.0)	60.0(	5.0)
1	TAP	Sr	T	1	74.370	1714.1(	30.0)	-0.0(	0.0)

Measurement over
Correction starts

Unknown Specimen No. 185

Group : adam? Sample : 170909
UNK No. : 185 Comment : KST
Stage : X= 45.1763 Y= 29.6504 Z= 11.0865
Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
Dated on Sep 18 15:36 2004
WDS only No. of accumulation : 1

Curr. (A) : 1.511E-08

Element	Peak (mm)	Net (cps)	Bg-	Bg+	S.D. (%)	D.L. (ppm)
1 Al	90.481	2488.6	32.0	20.4	0.64	158
2 Mn	146.006	-0.2	4.4	4.2	100.00 ?	414
3 K	119.829	1675.6	10.0	6.4	0.78	117
4 Ba	89.098	11.1	79.2	67.2	36.07 ?	256
5 Na	129.353	148.0	16.2	13.4	2.85	116
6 Si	77.214	8876.1	213.9	144.0	0.34	414
7 Fe	134.430	11.6	5.0	4.0	12.37	359
8 Ca	107.560	2.8	9.2	9.8	52.73 ?	130
9 Mg	107.374	-3.5	32.0	26.8	100.00 ?	126
10 Sr	74.370	4.0	0.0	53.1	34.49 ?	206
11 Ti	87.970	5.4	12.0	14.8	33.23	195

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7345	0.0169	0.8237	0.9483	1.0104	1.2460	1.0347
K	0.9078	0.0002	0.9466	0.8856	1.0486	1.1373	0.9987
Ba	0.9441	0.0005	1.0354	0.5607	1.2468	1.3809	1.1997
Na	0.4727	0.0053	0.5641	0.9719	0.9953	1.8227	1.0653
Si	0.7548	0.0018	0.8283	0.9667	1.0180	1.2247	1.0530
Fe	0.9810	0.0000	0.9970	0.7946	1.0599	1.1910	1.1152
Ca	0.9003	0.0002	0.9325	0.8997	1.0526	1.1321	1.0556
Sr	0.7842	0.0027	1.0573	0.6567	1.2216	1.1757	1.1074
Ti	0.9447	0.0004	0.9720	0.8117	1.0583	1.1972	1.1086

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	9.41	17.77	9.42	17.80	2.914	1.0347	0.07548	0.17175
Mn	0.00	0.00	0.00	0.00	0.000	0.8945	0.00000	-0.00019 ?
K	12.89	15.53	12.91	15.55	2.756	0.9987	0.11332	1.02533

Ba	0.0797	0.0890	0.0798	0.0891	0.0049	1.1997	0.000577	0.001129
Na	0.7866	1.0604	0.7877	1.0619	0.2860	1.0653	0.004316	0.083712
Si	30.28	64.78	30.32	64.87	9.012	1.0530	0.24723	1.19761
Fe	0.3801	0.4890	0.3806	0.4897	0.0569	1.1152	0.003191	0.004873
Ca	0.0200	0.0279	0.0200	0.0280	0.0042	1.0556	0.000176	0.000551
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00038 ?
Sr	0.0410	0.0485	0.0411	0.0486	0.0039	1.1074	0.000349	0.000777
Ti	0.0431	0.0718	0.0431	0.0719	0.0075	1.1086	0.000360	0.000648
O	45.94	-	46.00	-	24.000	-	-	-

Total:	99.86	99.86	100.00	100.00	15.045			

UNK No. = 186 ./adam?/170909 dated Sat Sep 18 15:36:24 2004

11 Elements WDS only X= 45.414 Y= 29.600 Z= 11.088

Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000

Probe Current = 1.510E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
4 PETH	Ba T	1	89.098	859.1(10.0)	422.0(5.0)	342.0(5.0)
2 LIF	Mn T	1	146.006	33.0(10.0)	27.0(5.0)	10.0(5.0)
1 TAP	Al T	1	90.481	25088.0(10.0)	148.0(5.0)	95.0(5.0)
5 TAPH	Na T	1	129.353	1697.3(10.0)	102.0(5.0)	67.0(5.0)
3 PETJ	K T	1	119.829	16367.4(10.0)	43.0(5.0)	42.0(5.0)
2 LIF	Fe T	1	134.430	162.0(10.0)	18.0(5.0)	24.0(5.0)
1 TAP	Si T	1	77.214	90984.6(10.0)	1117.3(5.0)	712.1(5.0)
3 PETJ	Ca T	1	107.560	139.0(10.0)	45.0(5.0)	50.0(5.0)
5 TAPH	Mg T	1	107.374	288.0(10.0)	165.0(5.0)	147.0(5.0)
3 PETJ	Ti T	1	87.970	182.0(10.0)	90.0(5.0)	82.0(5.0)
1 TAP	Sr T	1	74.370	1689.1(30.0)	-0.0(0.0)	752.0(15.0)

Measurement over
Correction starts

Unknown Specimen No. 186

Group : adam? Sample : 170909

UNK No. : 186 Comment : KST

Stage : X= 45.4142 Y= 29.5998 Z= 11.0875

Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000

Dated on Sep 18 15:38 2004

WDS only No. of accumulation : 1

Curr. (A) : 1.510E-08

Element	Peak (mm)	Net (cps)	Bg-	Bg+	S.D. (%)	D.L. (ppm)
1 Al	90.481	2484.5	29.6	19.0	0.64	152
2 Mn	146.006	-0.4	5.4	2.0	100.00 ?	385
3 K	119.829	1628.2	8.6	8.4	0.79	119
4 Ba	89.098	8.4	84.4	68.4	48.77 ?	262
5 Na	129.353	152.8	20.4	13.4	2.83	124
6 Si	77.214	8915.5	223.5	142.4	0.34	419
7 Fe	134.430	12.0	3.6	4.8	11.90	347
8 Ca	107.560	4.4	9.0	10.0	34.77 ?	130
9 Mg	107.374	-2.4	33.0	29.4	100.00 ?	130

10 Sr	74.370	6.2	0.0	50.1	22.21	200
11 Ti	87.970	1.0	18.0	16.4	188.15 ?	221

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7348	0.0170	0.8241	0.9479	1.0106	1.2457	1.0344
K	0.9075	0.0002	0.9464	0.8852	1.0488	1.1380	0.9994
Ba	0.9444	0.0005	1.0358	0.5604	1.2469	1.3808	1.1996
Na	0.4732	0.0053	0.5648	0.9714	0.9955	1.8211	1.0644
Si	0.7550	0.0018	0.8285	0.9663	1.0181	1.2247	1.0530
Fe	0.9812	0.0000	0.9972	0.7942	1.0600	1.1912	1.1154
Ca	0.9009	0.0002	0.9331	0.8993	1.0528	1.1317	1.0552
Sr	0.7845	0.0027	1.0576	0.6564	1.2219	1.1757	1.1074
Ti	0.9450	0.0004	0.9723	0.8114	1.0585	1.1971	1.1085

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	9.39	17.75	9.42	17.79	2.905	1.0344	0.07540	0.17158
Mn	0.00	0.00	0.00	0.00	0.000	0.8945	0.00000	-0.00038 ?
K	12.54	15.11	12.57	15.14	2.676	0.9994	0.11019	0.99700
Ba	0.0599	0.0668	0.0600	0.0670	0.0036	1.1996	0.000434	0.000848
Na	0.8120	1.0945	0.8139	1.0971	0.2947	1.0644	0.004459	0.086485
Si	30.44	65.11	30.51	65.26	9.040	1.0530	0.24850	1.20372
Fe	0.3935	0.5063	0.3944	0.5074	0.0588	1.1154	0.003303	0.005044
Ca	0.0314	0.0439	0.0314	0.0440	0.0065	1.0552	0.000277	0.000866
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00026 ?
Sr	0.0633	0.0748	0.0634	0.0750	0.0060	1.1074	0.000538	0.001198
Ti	0.0080	0.0133	0.0080	0.0133	0.0014	1.1085	0.000067	0.000120 ?
O	46.03	-	46.14	-	24.000	-	-	-

Total: 99.77 99.77 100.00 100.00 14.992

UNK No. = 187 ./adam?/170909 dated Sat Sep 18 15:38:25 2004

11 Elements WDS only X= 45.617 Y= 35.677 Z= 11.059

Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000

Probe Current = 1.509E-08 (A)

Channel	Element	Acm	Peak	Peak cnt	sec	BG_L cnt	sec	BG_U cnt	sec
4 PETH	Ba T	1	89.098	5299.1	(10.0)	627.1	(5.0)	498.1	(5.0)
1 TAP	Al T	1	90.481	330.0	(10.0)	121.0	(5.0)	112.0	(5.0)
2 LIF	Mn T	1	146.006	36.0	(10.0)	20.0	(5.0)	18.0	(5.0)
5 TAPH	Na T	1	129.353	154.0	(10.0)	85.0	(5.0)	74.0	(5.0)
3 PETJ	K T	1	119.829	99.0	(10.0)	55.0	(5.0)	43.0	(5.0)
1 TAP	Si T	1	77.214	438.0	(10.0)	213.0	(5.0)	157.0	(5.0)
2 LIF	Fe T	1	134.430	216.0	(10.0)	34.0	(5.0)	30.0	(5.0)
3 PETJ	Ca T	1	107.560	144.0	(10.0)	79.0	(5.0)	56.0	(5.0)
5 TAPH	Mg T	1	107.374	270.0	(10.0)	166.0	(5.0)	142.0	(5.0)
3 PETJ	Ti T	1	87.970	83246.4	(10.0)	136.0	(5.0)	141.0	(5.0)
1 TAP	Sr T	1	74.370	878.0	(30.0)	-0.0	(0.0)	416.0	(15.0)

Measurement over
Correction starts

Unknown Specimen No. 187

Group : adam? Sample : 170909
 UNK No. : 187 Comment : TIST
 Stage : X= 45.6169 Y= 35.6774 Z= 11.0595
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:40 2004
 WDS only No. of accumulation : 1

Curr.(A) : 1.509E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	9.7	24.2	22.4	24.46	149
2 Mn	146.006	-0.2	4.0	3.6	100.00 ?	390
3 K	119.829	0.1	11.0	8.6	1403.57 ?	128
4 Ba	89.098	415.6	125.4	99.6	1.94	319
5 Na	129.353	-0.5	17.0	14.8	100.00 ?	120
6 Si	77.214	6.8	42.6	31.4	41.80 ?	189
7 Fe	134.430	15.2	6.8	6.0	11.01	428
8 Ca	107.560	0.9	15.8	11.2	185.59 ?	156
9 Mg	107.374	-3.8	33.2	28.4	100.00 ?	129
10 Sr	74.370	1.5	0.0	27.7	64.39 ?	149
11 Ti	87.970	8296.9	27.2	28.2	0.35	281

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.5728	0.0015	0.6425	1.0532	0.9745	1.5142	1.2574
Ba	0.9757	0.0004	1.0701	0.6200	1.2176	1.2374	1.0750
Si	0.6881	0.0032	0.7551	1.0732	0.9821	1.2526	1.0770
Fe	0.9466	0.0000	0.9620	0.8773	1.0415	1.1376	1.0652
Sr	0.7211	0.0050	0.9721	0.7289	1.1789	1.1912	1.1219
Ti	0.9759	0.0003	1.0041	0.8978	1.0325	1.0740	0.9945

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	0.0446	0.0842	0.0434	0.0821	0.0158	1.2574	0.000294	0.000670
Mn	0.00	0.00	0.00	0.00	0.000	0.8945	0.00000	-0.00019 ?
K	0.0006	0.0008	0.0006	0.0007	0.0002	0.8301	0.000007	0.000061 ?
Ba	2.67	2.98	2.60	2.90	0.186	1.0750	0.02156	0.04217
Na	0.00	0.00	0.00	0.00	0.000	0.5844	0.00000	-0.00028 ?
Si	0.0238	0.0508	0.0232	0.0495	0.0081	1.0770	0.000190	0.000919
Fe	0.4764	0.6129	0.4641	0.5970	0.0816	1.0652	0.004188	0.006394
Ca	0.0049	0.0069	0.0048	0.0067	0.0012	0.8124	0.000057	0.000177 ?
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00041 ?
Sr	0.0159	0.0189	0.0155	0.0184	0.0017	1.1219	0.000134	0.000298
Ti	59.29	98.90	57.76	96.34	11.845	0.9945	0.55345	0.99693
O	40.13	-	39.09	-	24.000	-	-	-

 Total: 102.65 102.65 100.00 100.00 12.139

UNK No. = 188 ./adam?/170909 dated Sat Sep 18 15:40:25 2004

11 Elements WDS only X= 45.528 Y= 35.686 Z= 11.059

Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000

Probe Current = 1.509E-08 (A)

Channel Element Acn Peak Peak cnt sec BG_L cnt sec BG_U cnt sec

1	TAP	Al	T	1	90.481	401.0(10.0)	136.0(5.0)	84.0(5.0)
2	LIF	Mn	T	1	146.006	53.0(10.0)	23.0(5.0)	23.0(5.0)
4	PETH	Ba	T	1	89.098	5224.0(10.0)	651.1(5.0)	472.0(5.0)
5	TAPH	Na	T	1	129.353	180.0(10.0)	108.0(5.0)	82.0(5.0)
3	PETJ	K	T	1	119.829	99.0(10.0)	68.0(5.0)	41.0(5.0)
2	LIF	Fe	T	1	134.430	213.0(10.0)	44.0(5.0)	31.0(5.0)
1	TAP	Si	T	1	77.214	414.0(10.0)	235.0(5.0)	190.0(5.0)
3	PETJ	Ca	T	1	107.560	132.0(10.0)	87.0(5.0)	68.0(5.0)
5	TAPH	Mg	T	1	107.374	260.0(10.0)	179.0(5.0)	110.0(5.0)
3	PETJ	Ti	T	1	87.970	83306.5(10.0)	142.0(5.0)	143.0(5.0)
1	TAP	Sr	T	1	74.370	855.0(30.0)	-0.0(0.0)	418.0(15.0)

Measurement over
Correction starts

Unknown Specimen No. 188

Group : adam? Sample : 170909
UNK No. : 188 Comment : TIST
Stage : X= 45.5277 Y= 35.6862 Z= 11.0595
Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
Dated on Sep 18 15:42 2004
WDS only No. of accumulation : 1

Curr.(A) : 1.509E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	18.1	27.2	16.8	13.77	145
2 Mn	146.006	0.7	4.6	4.6	142.14 ?	429
3 K	119.829	-1.0	13.6	8.2	100.00 ?	135
4 Ba	89.098	407.5	130.2	94.4	1.97	320
5 Na	129.353	-1.0	21.6	16.4	100.00 ?	131
6 Si	77.214	-1.1	47.0	38.0	100.00 ?	202
7 Fe	134.430	13.8	8.8	6.2	12.30	464
8 Ca	107.560	-2.3	17.4	13.6	100.00 ?	167
9 Mg	107.374	-2.9	35.8	22.0	100.00 ?	125
10 Sr	74.370	0.6	0.0	27.9	153.98 ?	149
11 Ti	87.970	8302.1	28.4	28.6	0.35	285

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.5732	0.0015	0.6428	1.0530	0.9746	1.5135	1.2569
Mn	0.9322	0.0000	0.9500	0.8647	1.0405	1.1699	1.0465
Ba	0.9757	0.0004	1.0702	0.6199	1.2177	1.2375	1.0751
Fe	0.9467	0.0000	0.9621	0.8771	1.0415	1.1378	1.0654
Sr	0.7212	0.0050	0.9722	0.7288	1.1790	1.1912	1.1219
Ti	0.9760	0.0003	1.0042	0.8976	1.0326	1.0741	0.9946

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	0.0832	0.1572	0.0811	0.1532	0.0295	1.2569	0.000550	0.001251
Mn	0.0254	0.0328	0.0247	0.0319	0.0044	1.0465	0.000217	0.000666 ?
K	0.00	0.00	0.00	0.00	0.000	0.8782	0.00000	-0.00061 ?
Ba	2.62	2.92	2.55	2.85	0.182	1.0751	0.02114	0.04135
Na	0.00	0.00	0.00	0.00	0.000	0.5844	0.00000	-0.00057 ?
Si	0.00	0.00	0.00	0.00	0.000	0.8598	0.00000	-0.00015 ?
Fe	0.4326	0.5565	0.4214	0.5421	0.0741	1.0654	0.003802	0.005805
Ca	0.00	0.00	0.00	0.00	0.000	0.9324	0.00000	-0.00045 ?

Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00031 ?
Sr	0.0066	0.0078	0.0064	0.0076	0.0007	1.1219	0.000055	0.000123 ?
Ti	59.33	98.97	57.80	96.42	11.847	0.9946	0.55380	0.99755
O	40.15	-	39.11	-	24.000	-	-	

Total:	102.65	102.65	100.00	100.00	12.138			

 UNK No. = 189 ./adam?/170909 dated Sat Sep 18 15:42:26 2004
 11 Elements WDS only X= 45.504 Y= 35.743 Z= 11.060
 Acc. Voltage = 15.0 (kV) Probe Dia. = 5 Scan On Mag= 300000
 Probe Current = 1.511E-08 (A)

Channel	Element	Acm	Peak	Peak cnt sec	BG_L cnt sec	BG_U cnt sec
4 PETH	Ba T	1	89.098	5106.9(10.0)	702.1(5.0)	474.0(5.0)
1 TAP	Al T	1	90.481	382.0(10.0)	106.0(5.0)	99.0(5.0)
2 LIF	Mn T	1	146.006	54.0(10.0)	36.0(5.0)	23.0(5.0)
3 PETJ	K T	1	119.829	97.0(10.0)	67.0(5.0)	45.0(5.0)
5 TAPH	Na T	1	129.353	163.0(10.0)	99.0(5.0)	58.0(5.0)
1 TAP	Si T	1	77.214	397.0(10.0)	199.0(5.0)	190.0(5.0)
2 LIF	Fe T	1	134.430	203.0(10.0)	30.0(5.0)	33.0(5.0)
3 PETJ	Ca T	1	107.560	124.0(10.0)	79.0(5.0)	71.0(5.0)
5 TAPH	Mg T	1	107.374	283.0(10.0)	166.0(5.0)	122.0(5.0)
3 PETJ	Ti T	1	87.970	83082.4(10.0)	146.0(5.0)	122.0(5.0)
1 TAP	Sr T	1	74.370	848.0(30.0)	-0.0(0.0)	390.0(15.0)

Measurement over
 Correction starts

Unknown Specimen No. 189
 Group : adam? Sample : 170909
 UNK No. : 189 Comment : TIST
 Stage : X= 45.5043 Y= 35.7426 Z= 11.0600
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:44 2004
 WDS only No. of accumulation : 1

Curr.(A) : 1.511E-08

Element	Peak(mm)	Net(cps)	Bg-	Bg+	S.D.(%)	D.L.(ppm)
1 Al	90.481	17.7	21.2	19.8	13.69	140
2 Mn	146.006	-0.5	7.2	4.6	100.00 ?	485
3 K	119.829	-1.5	13.4	9.0	100.00 ?	137
4 Ba	89.098	389.8	140.4	94.8	2.05	327
5 Na	129.353	0.6	19.8	11.6	298.14 ?	119
6 Si	77.214	0.8	39.8	38.0	350.45 ?	193
7 Fe	134.430	14.0	6.0	6.6	11.65	424
8 Ca	107.560	-2.6	15.8	14.2	100.00 ?	164
9 Mg	107.374	-0.5	33.2	24.4	100.00 ?	124
10 Sr	74.370	2.3	0.0	26.0	42.82 ?	144
11 Ti	87.970	8281.4	29.2	24.4	0.35	276

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
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