

7

Sep 18 16:16 2004 /tmp/x_text.pri Page 1

Prz (citzaf)
Asynchronous Mode.

UNK No. = 172 ./adam?/170909 dated Sat Sep 18 15:08:02 2004
11 Elements WDS only X= 40.164 Y= 19.947 Z= 11.105
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	685.1(10.0)	345.0(5.0)	329.0(5.0)
1	TAP Al T	1	90.481	26352.2(10.0)	152.0(5.0)	79.0(5.0)
3	PETJ K T	1	119.829	76.0(10.0)	41.0(5.0)	30.0(5.0)
5	TAPH Na T	1	129.353	17495.6(10.0)	95.0(5.0)	55.0(5.0)
2	LIF Mn T	1	146.006	35.0(10.0)	15.0(5.0)	8.0(5.0)
1	TAP Si T	1	77.214	90777.5(10.0)	1153.3(5.0)	127.0(5.0)
3	PETJ Ca T	1	107.560	102.0(10.0)	55.0(5.0)	47.0(5.0)
2	LIF Fe T	1	134.430	52.0(10.0)	28.0(5.0)	19.0(5.0)
5	TAPH Mg T	1	107.374	234.0(10.0)	162.0(5.0)	85.0(5.0)
3	PETJ Ti T	1	87.970	125.0(10.0)	97.0(5.0)	71.0(5.0)
1	TAP Sr T	1	74.370	1535.1(30.0)	-0.0(0.0)	691.0(15.0)

Measurement over
Correction starts

=====

CITZAF
Copyright, John T. Armstrong, California Institute of Technology
JEOL On-line type Implemented by Paul Carpenter Caltech 1993
JEOL License of CITZAF Version: 3.50

=====

Standard Data

Element	Standard name	Mass(%)
1 Al2O3	Al2O3	100.0000
2 MnO	MnTiO3	47.0300
3 K2O	kspar	14.9400
4 BaO	BaSO4	65.6984
5 Na2O	albite	11.9000
6 SiO2	wollastonite	51.3500
7 FeO	haematit	89.9812
8 CaO	wollastonite	48.0300
9 MgO	marjalathi	48.0800
10 SrO	ceolleston	56.4103
11 TiO2	rutil	99.4000

Standard Intensity of WDS

Element	Curr. (A)	Net(cps)	Bg-(cps)	Bg+(cps)	S.D. (%)	Date
1 Al	1.498E-08	14365.3	44.4	21.9	0.13	Sep 6 12:19 2004
2 Mn	1.512E-08	1053.1	6.3	3.9	0.57	Sep 17 10:17 2004
3 K	1.499E-08	1621.2	8.9	6.2	0.39	Aug 2 10:30 2004
4 Ba	1.581E-08	10325.4	463.5	410.9	0.16	Dec 15 08:58 2003
5 Na	1.488E-08	1741.4	18.5	15.6	0.38	Sep 16 10:53 2004
6 Si	1.489E-08	7303.6	246.2	31.6	0.19	Sep 16 10:47 2004
7 Fe	1.501E-08	2364.8	10.6	10.6	0.46	Sep 7 11:00 2004
8 Ca	1.489E-08	5007.8	15.2	11.1	0.22	Aug 3 10:07 2004
9 Mg	1.501E-08	9216.9	33.7	27.5	0.17	Aug 2 11:00 2004

10 Sr 1.510E-08 5147.3 0.0 331.9 0.15 Sep 17 10:02 2004
 11 Ti 1.488E-08 8206.7 26.8 28.9 0.20 Sep 16 10:49 2004

Standard Factors

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el
Al	0.7709	0.0000	0.8646	0.9431	1.0185	1.2042
Mn	0.9569	0.0000	0.9753	0.8874	1.0336	1.1179
K	0.9078	0.0000	0.9466	0.8841	1.0493	1.1388
Ba	0.9336	0.0000	1.0240	0.7491	1.1326	1.1510
Na	0.5076	0.0053	0.6058	0.9568	1.0029	1.7110
Si	0.7893	0.0042	0.8661	0.9832	1.0055	1.1630
Fe	0.9875	0.0000	1.0036	0.9077	1.0279	1.0680
Ca	0.9445	0.0002	0.9783	0.9140	1.0426	1.0725
Mg	0.6021	0.0037	0.6901	0.9863	1.0031	1.4591
Sr	0.7886	0.0057	1.0631	0.7746	1.1372	1.0617
Ti	0.9775	0.0000	1.0058	0.8888	1.0359	1.0799

Unknown Specimen No. 172

Group : adam? Sample : 170909
 UNK No. : 172 Comment : ABST
 Stage : X= 40.1639 Y= 19.9469 Z= 11.1050
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:09 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	2612.1	30.4	15.8	0.62	148
2 Mn	146.006	1.2	3.0	1.6	63.46 ?	303
3 K	119.829	0.5	8.2	6.0	242.49 ?	109
4 Ba	89.098	0.9	69.0	65.8	425.90 ?	245
5 Na	129.353	1734.6	19.0	11.0	0.77	117
6 Si	77.214	8949.7	230.7	25.4	0.34	351
7 Fe	134.430	0.5	5.6	3.8	199.00 ?	367
8 Ca	107.560	0.0	11.0	9.4	100.00 ?	135
9 Mg	107.374	-1.3	32.4	17.0	100.00 ?	115
10 Sr	74.370	5.1	0.0	46.1	25.60	192
11 Ti	87.970	-4.3	19.4	14.2	100.00 ?	219

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7112	0.0154	0.7977	0.9342	1.0180	1.2983	1.0781
Mn	0.9826	0.0000	1.0014	0.7724	1.0649	1.2141	1.0861
Ba	0.9598	0.0001	1.0527	0.5529	1.2527	1.3712	1.1913
Na	0.5069	0.0054	0.6049	0.9572	1.0027	1.7131	1.0012
Si	0.7335	0.0000	0.8049	0.9524	1.0256	1.2719	1.0937
Fe	0.9866	0.0000	1.0027	0.7839	1.0636	1.1962	1.1201
Sr	0.7643	0.0000	1.0304	0.6470	1.2307	1.2188	1.1479

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	10.29	19.45	10.38	19.60	3.029	1.0781	0.07928	0.18039
Mn	0.0451	0.0583	0.0455	0.0587	0.0065	1.0861	0.000372	0.001141
K	0.0039	0.0047	0.0039	0.0047	0.0008	1.0148	0.000034	0.000306 ?

Ba	0.0062	0.0069	0.0062	0.0069	0.0004	1.1913	0.000045	0.000088 ?
Na	8.67	11.69	8.74	11.78	2.994	1.0012	0.05060	0.98156
Si	31.75	67.93	32.00	68.46	8.973	1.0937	0.24945	1.20834
Fe	0.0165	0.0212	0.0166	0.0213	0.0023	1.1201	0.000138	0.000210 ?
Ca	0.00	0.00	0.00	0.00	0.000	0.9324	0.00000	0.00000 ?
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00014 ?
Sr	0.0543	0.0642	0.0547	0.0647	0.0049	1.1479	0.000445	0.000991
Ti	0.00	0.00	0.00	0.00	0.000	0.9260	0.00000	-0.00052 ?
O	48.38	-	48.76	-	24.000	-	-	-

Total:	99.22	99.22	100.00	100.00	15.010			

 UNK No. = 173 ./adam?/170909 dated Sat Sep 18 15:10:05 2004
 11 Elements WDS only X= 40.118 Y= 19.919 Z= 11.105
 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	677.1(10.0)	318.0(5.0)	305.0(5.0)
2	LIF Mn T	1	146.006	23.0(10.0)	18.0(5.0)	10.0(5.0)
5	TAPH Na T	1	129.353	17475.5(10.0)	100.0(5.0)	73.0(5.0)
1	TAP Al T	1	90.481	26285.8(10.0)	132.0(5.0)	68.0(5.0)
3	PETJ K T	1	119.829	70.0(10.0)	32.0(5.0)	24.0(5.0)
2	LIF Fe T	1	134.430	51.0(10.0)	28.0(5.0)	18.0(5.0)
1	TAP Si T	1	77.214	90562.3(10.0)	1156.3(5.0)	141.0(5.0)
3	PETJ Ca T	1	107.560	104.0(10.0)	55.0(5.0)	44.0(5.0)
5	TAPH Mg T	1	107.374	206.0(10.0)	137.0(5.0)	95.0(5.0)
3	PETJ Ti T	1	87.970	153.0(10.0)	89.0(5.0)	71.0(5.0)
1	TAP Sr T	1	74.370	1463.1(30.0)	-0.0(0.0)	752.0(15.0)

Measurement over
 Correction starts

Unknown Specimen No. 173

Group : adam? Sample : 170909
 UNK No. : 173 Comment : ABST
 Stage : X= 40.1176 Y= 19.9191 Z= 11.1050
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:11 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	2608.6	26.4	13.6	0.62	138
2 Mn	146.006	-0.5	3.6	2.0	100.00 ?	335
3 K	119.829	1.4	6.4	4.8	80.18 ?	97
4 Ba	89.098	5.2	63.6	61.0	69.57 ?	236
5 Na	129.353	1730.3	20.0	14.6	0.77	125
6 Si	77.214	8926.5	231.3	28.2	0.34	353
7 Fe	134.430	0.5	5.6	3.6	196.98 ?	363
8 Ca	107.560	0.5	11.0	8.8	284.96 ?	133
9 Mg	107.374	-2.6	27.4	19.0	100.00 ?	112

10 Sr	74.370	-1.4	0.0	50.1	100.00 ?	200
11 Ti	87.970	-0.7	17.8	14.2	100.00 ?	214

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7112	0.0154	0.7977	0.9340	1.0181	1.2983	1.0782
K	0.9011	0.0000	0.9397	0.8729	1.0551	1.1555	1.0147
Ba	0.9598	0.0000	1.0527	0.5529	1.2527	1.3715	1.1915
Na	0.5071	0.0054	0.6052	0.9570	1.0028	1.7125	1.0009
Si	0.7334	0.0000	0.8048	0.9523	1.0256	1.2722	1.0939
Fe	0.9866	0.0000	1.0027	0.7838	1.0636	1.1964	1.1203

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	10.29	19.44	10.39	19.64	3.032	1.0782	0.07922	0.18027
Mn	0.00	0.00	0.00	0.00	0.000	0.8945	0.00000	-0.00048 ?
K	0.0110	0.0132	0.0111	0.0133	0.0022	1.0147	0.000095	0.000858
Ba	0.0371	0.0414	0.0375	0.0418	0.0021	1.1915	0.000270	0.000529
Na	8.65	11.66	8.74	11.78	2.993	1.0009	0.05051	0.97977
Si	31.70	67.82	32.02	68.50	8.975	1.0939	0.24897	1.20601
Fe	0.0165	0.0212	0.0166	0.0214	0.0023	1.1203	0.000138	0.000210 ?
Ca	0.0035	0.0049	0.0035	0.0049	0.0007	1.0342	0.000031	0.000098 ?
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00028 ?
Sr	0.00	0.00	0.00	0.00	0.000	0.9419	0.00000	-0.00027 ?
Ti	0.00	0.00	0.00	0.00	0.000	0.9260	0.00000	-0.00008 ?
O	48.29	-	48.78	-	24.000	-	-	-

Total:	99.01	99.01	100.00	100.00	15.007			

 UNK No. = 174 ./adam?/170909 dated Sat Sep 18 15:12:06 2004
 11 Elements WDS only X= 40.009 Y= 19.911 Z= 11.099
 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	639.0(10.0)	325.0(5.0)	283.0(5.0)
2 LIF	Mn T	1	146.006	29.0(10.0)	19.0(5.0)	9.0(5.0)
1 TAP	Al T	1	90.481	25610.9(10.0)	126.0(5.0)	70.0(5.0)
5 TAPH	Na T	1	129.353	18055.8(10.0)	73.0(5.0)	62.0(5.0)
3 PETJ	K T	1	119.829	94.0(10.0)	39.0(5.0)	28.0(5.0)
2 LIF	Fe T	1	134.430	52.0(10.0)	18.0(5.0)	18.0(5.0)
1 TAP	Si T	1	77.214	92357.9(10.0)	1061.2(5.0)	133.0(5.0)
3 PETJ	Ca T	1	107.560	99.0(10.0)	55.0(5.0)	49.0(5.0)
5 TAPH	Mg T	1	107.374	241.0(10.0)	153.0(5.0)	95.0(5.0)
3 PETJ	Ti T	1	87.970	137.0(10.0)	71.0(5.0)	73.0(5.0)
1 TAP	Sr T	1	74.370	1448.1(30.0)	-0.0(0.0)	709.0(15.0)

Measurement over
 Correction starts

Unknown Specimen No. 174
 Group : adam? Sample : 170909
 UNK No. : 174 Comment : ABST

Stage : X= 40.0090 Y= 19.9109 Z= 11.0990
 Acc. Voltage : 15.0 (kV) Probe Dia. : 5 Scan : On Mag : 300000
 Dated on Sep 18 15:13 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	2541.5	25.2	14.0	0.63	137
2 Mn	146.006	0.1	3.8	1.8	754.98 ?	335
3 K	119.829	2.7	7.8	5.6	46.99 ?	106
4 Ba	89.098	2.5	65.0	56.6	142.66 ?	234
5 Na	129.353	1792.1	14.6	12.4	0.75	111
6 Si	77.214	9116.4	212.2	26.6	0.34	339
7 Fe	134.430	1.6	3.6	3.6	58.63 ?	321
8 Ca	107.560	-0.5	11.0	9.8	100.00 ?	136
9 Mg	107.374	-0.7	30.6	19.0	100.00 ?	116
10 Sr	74.370	1.0	0.0	47.3	126.85 ?	195
11 Ti	87.970	-0.7	14.2	14.6	100.00 ?	203

Element	f(chi)	If/Ip	abs-el	1/s-el	r-el	c/k-el	c/k-std
Al	0.7101	0.0156	0.7964	0.9340	1.0180	1.3002	1.0797
K	0.9012	0.0000	0.9397	0.8728	1.0551	1.1555	1.0147
Ba	0.9598	0.0001	1.0527	0.5529	1.2527	1.3714	1.1914
Na	0.5070	0.0053	0.6051	0.9570	1.0028	1.7129	1.0011
Si	0.7349	0.0000	0.8065	0.9523	1.0256	1.2695	1.0916
Fe	0.9866	0.0000	1.0027	0.7838	1.0636	1.1964	1.1203
Sr	0.7656	0.0000	1.0322	0.6469	1.2308	1.2167	1.1460

Element	El. mass%	Ox mass%	Norm El%	Norm ox%	At prop	c/k-std	k-value	k-(std)
Al	10.04	18.96	10.01	18.92	2.925	1.0797	0.07719	0.17563
Mn	0.0038	0.0049	0.0038	0.0048	0.0005	1.0862	0.000031	0.000095 ?
K	0.0211	0.0254	0.0211	0.0254	0.0042	1.0147	0.000183	0.001654
Ba	0.0178	0.0199	0.0178	0.0198	0.0010	1.1914	0.000130	0.000254 ?
Na	8.96	12.08	8.94	12.05	3.065	1.0011	0.05232	1.01478
Si	32.27	69.04	32.21	68.89	9.034	1.0916	0.25426	1.23166
Fe	0.0527	0.0678	0.0526	0.0677	0.0074	1.1203	0.000441	0.000673
Ca	0.00	0.00	0.00	0.00	0.000	0.9324	0.00000	-0.00010 ?
Mg	0.00	0.00	0.00	0.00	0.000	0.6854	0.00000	-0.00008 ?
Sr	0.0106	0.0125	0.0106	0.0125	0.0010	1.1460	0.000087	0.000194 ?
Ti	0.00	0.00	0.00	0.00	0.000	0.9260	0.00000	-0.00008 ?
O	48.83	-	48.73	-	24.000	-	-	-

 Total: 100.21 100.21 100.00 100.00 15.038

 UNK No. = 175 ./adam?/170909 dated Sat Sep 18 15:14:08 2004
 11 Elements WDS only X= 39.941 Y= 25.203 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
1 TAP	Al T	1	90.481	180.0	(10.0)	98.0	(5.0)	57.0	(5.0)
4 PETH	Ba T	1	89.098	754.1	(10.0)	387.0	(5.0)	354.0	(5.0)