

CEGAR #4 43TM-1

Fa 18.8 ± 0.7
N=20

Fs 16.5 ± 0.3
Wo 0.9 ± 0.2
N=10

POINT # : 35

Label: CEDAR #4 43TM-1
X= 7595, Y= 7624, Z= 2754.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	10136.58	84.41	1.44604	0.20163	0.3	
FE	48089.	506.48	6.20	0.92666	0.07064	1.1	
CA	38369.	54.47	15.70	0.02865	0.00180	4.3	
MG	38499.	5922.94	103.83	2.95939	0.13039	0.5	
MN	52197.	26.13	5.69	0.02269	0.00316	5.6	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0287	0.203	0.0423	CAO	0.284	0.012
FE :	0.9267	8.630	1.2897	FE0	11.103	0.127
MN :	0.0227	0.390	0.0593	MNO	0.504	0.028
SI :	1.4460	26.834	7.9734	SI02	57.405	0.166
MG :	2.9594	19.408	6.6620	MG0	32.179	0.154
O		46.010	24.0000			

Fs 16.1
Wo 0.5

TOTAL : 101.475
ITERATION : 4

POINT # : 36

Label: CEDAR #4 43TM-1
X= 7595, Y= 7516, Z= 2754.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	10036.98	80.91	1.43227	0.19971	0.3	
FE	48089.	518.77	7.10	0.94779	0.07225	1.1	
CA	38369.	85.28	16.55	0.05080	0.00320	3.0	
MG	38499.	5821.50	93.62	2.91310	0.12835	0.5	
MN	52197.	26.80	5.91	0.02318	0.00323	5.5	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0508	0.360	0.0755	CAO	0.504	0.015
FE :	0.9478	8.824	1.3286	FE0	11.352	0.129
MN :	0.0232	0.399	0.0610	MNO	0.515	0.028
SI :	1.4323	26.594	7.9614	SI02	56.892	0.164
MG :	2.9131	19.119	6.6121	MG0	31.700	0.152
O		45.668	24.0000			

Fs 16.6
Wo 0.9

TOTAL : 100.963
ITERATION : 0

POINT # : 37

Label: CEDAR #4 43TM-1
X= 7595, Y= 7297, Z= 2754.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
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POS.	(C/S)	(C/S)					30.3
SI 27745.	6645.95	61.31	0.94730	0.13209	0.3		
FE 48089.	818.64	8.10	1.50146	0.11445	1.0		
CA 38369.	19.43	15.60	0.00283	0.00018	29.1		
MG 38499.	7846.71	121.54	3.92905	0.17311	0.5		
MN 52197.	24.80	5.30	0.02164	0.00302	5.6		

ELEMENT	I.X/I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0028	0.020	0.0044	CAO	0.028	0.008
FE :	1.5015	13.837	2.2317	FEO	17.801	0.181
MN :	0.0216	0.367	0.0602	MNO	0.474	0.026
SI :	0.9473	18.513	5.9374	SI02	39.605	0.126
MG :	3.9290	26.529	9.8289	MGO	43.988	0.203
O		42.629	24.0000			
TOTAL :		101.895			101.895	
ITERATION :	4					

Fe 18.5

POINT # : 38
 Label: CEDAR #4 43TM-1
 X= 7933, Y= 7207, Z= 2754.
 30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
SI	27745.	10057.55	79.61	1.43532	0.20014	0.3	30.3
FE	48089.	523.18	7.00	0.95608	0.07288	1.1	
CA	38369.	92.72	15.50	0.05706	0.00359	2.8	
MG	38499.	5807.17	94.32	2.90526	0.12801	0.5	
MN	52197.	27.73	5.83	0.02430	0.00339	5.3	

ELEMENT	I.X/I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0571	0.404	0.0846	CAO	0.565	0.016
FE :	0.9561	8.900	1.3374	FEO	11.450	0.130
MN :	0.0243	0.418	0.0638	MNO	0.539	0.029
SI :	1.4353	26.620	7.9555	SI02	56.948	0.164
MG :	2.9053	19.126	6.6030	MGO	31.711	0.152
O		45.746	24.0000			
TOTAL :		101.214			101.214	
ITERATION :	4					

Fe 16.7
W 0.1

POINT # : 39
 Label: CEDAR #4 43TM-1
 X= 8253, Y= 8134, Z= 2748.
 30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
SI	27745.	10102.62	90.01	1.44046	0.20085	0.3	30.3
FE	48089.	530.30	6.30	0.97066	0.07399	1.1	
CA	38369.	98.92	17.07	0.06049	0.00381	2.7	
MG	38499.	5827.47	96.82	2.91462	0.12842	0.5	
MN	52197.	28.43	6.61	0.02422	0.00338	5.6	

ELEMENT	I.X/I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0605	0.428	0.0893	CAO	0.599	0.016
FE :	0.9707	9.034	1.3522	FEO	11.422	0.131

MN :	0.0242	0.416	0.0633	MNO	0.538	0.030
SI :	1.4405	26.710	7.9495	SI02	57.139	0.165
MG :	2.9146	19.184	6.5961	M60	31.809	0.152
O		45.935	24.0000			

Fs_{16.8}
Wo_{1.1}

TOTAL : 101.707 101.707
ITERATION : 0

POINT # : 40

Label: CEDAR #4 43TM-1
X= 8522, Y= 8123, Z= 2748.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.3
SI	27745.	9991.24	79.61	1.42593	0.19883	0.3	
FE	48089.	521.38	8.40	0.95024	0.07244	1.1	
CA	38369.	88.08	13.44	0.05516	0.00347	2.7	
MG	38499.	5841.76	98.22	2.92117	0.12871	0.5	
MN	52197.	25.10	5.65	0.02159	0.00301	5.7	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0552	0.391	0.0821	CAO	0.547	0.015
FE :	0.9502	8.846	1.3341	FEO	11.381	0.130
MN :	0.0216	0.371	0.0569	MNO	0.479	0.028
SI :	1.4259	26.457	7.9333	SI02	56.598	0.164
MG :	2.9212	19.225	6.6599	M60	31.877	0.152
O		45.592	24.0000			

Fs_{16.5}
Wo_{1.0}

TOTAL : 100.881 100.881
ITERATION : 0

POINT # : 41

Label: CEDAR #4 43TM-1
X= 8595, Y= 8117, Z= 2748.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.3
SI	27745.	10099.98	82.01	1.44131	0.20097	0.3	
FE	48089.	509.79	7.60	0.93031	0.07092	1.1	
CA	38369.	74.78	15.20	0.04403	0.00277	3.3	
MG	38499.	5890.18	99.22	2.94545	0.12978	0.5	
MN	52197.	24.77	5.39	0.02151	0.00300	5.7	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0440	0.312	0.0651	CAO	0.436	0.014
FE :	0.9303	8.663	1.2974	FEO	11.145	0.128
MN :	0.0215	0.370	0.0563	MNO	0.477	0.027
SI :	1.4413	26.724	7.9578	SI02	57.171	0.165
MG :	2.9455	19.377	6.6657	M60	32.129	0.153
O		45.912	24.0000			

Fs_{16.2}
Wo_{0.8}

TOTAL : 101.358 101.358
ITERATION : 0

POINT # : 42

Label: CEDAR #4 43TM-1
X= 8412, Y= 7915, Z= 2748.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	6648.34	61.41	0.94765	0.13214	0.3	
FE	48089.	827.37	9.00	1.51599	0.11556	1.0	
CA	38369.	19.30	14.34	0.00367	0.00023	22.3	
MG	38499.	7794.06	121.44	3.90240	0.17194	0.5	
MN	52197.	26.67	6.43	0.02246	0.00313	5.7	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0037	0.026	0.0058	CaO	0.034	0.008
FE :	1.5160	13.947	2.2554	FeO	17.969	0.183
MN :	0.0225	0.381	0.0625	MnO	0.492	0.028
SI :	0.9476	18.512	5.9441	SiO2	39.603	0.126
MG :	3.9024	26.388	9.7880	MgO	43.752	0.202
O		42.578	24.0000			
TOTAL :		101.852			101.852	
ITERATION :	4					

Fa 18.7

POINT # : 43

Label: CEDAR #4 43TM-1
X= 8764, Y= 7878, Z= 2748.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	6624.45	67.81	0.94377	0.13160	0.3	
FE	48089.	818.34	7.90	1.50206	0.11450	1.0	
CA	38369.	17.93	16.67	0.00094	0.00006	86.5	
MG	38499.	7844.75	121.04	3.93038	0.17317	0.5	
MN	52197.	26.30	5.58	0.02301	0.00321	5.4	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0009	0.007	0.0015	CaO	0.009	0.008
FE :	1.5021	13.842	2.2354	FeO	17.807	0.181
MN :	0.0230	0.390	0.0641	MnO	0.504	0.027
SI :	0.9438	18.440	5.9220	SiO2	39.448	0.126
MG :	3.9304	26.563	9.8549	MgO	44.043	0.203
O		42.570	24.0000			
TOTAL :		101.812			101.812	
ITERATION :	0					

Fa 18.9

POINT # : 44

Label: CEDAR #4 43TM-1
X= 8962, Y= 7900, Z= 2748.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	6674.76	62.01	0.95166	0.13270	0.3	
FE	48089.	801.48	7.70	1.47091	0.11213	1.0	
CA	38369.	17.10	16.10	0.00074	0.00005	99.9	
MG	38499.	7885.67	129.24	3.94626	0.17387	0.5	
MN	52197.	26.37	5.75	0.02289	0.00319	5.6	

ELEMENT	I,X/I,STD,	CONCEN,	ATOM, CON	COMPOUND	CONCEN,	ERROR
CA :	0.0007	0.005	0.0012	CAO	0.007	0.007
FE :	1.4709	13.561	2.1825	FEO	17.446	0.178
MN :	0.0229	0.388	0.0635	MNO	0.501	0.028
SI :	0.9517	18.587	5.9481	SI02	39.764	0.127
MG :	3.9463	26.662	9.8567	MGO	44.208	0.204
O		42.722	24.0000			

Fa 18.1

TOTAL : 101.926 101.926
 ITERATION : 0

POINT # : 45

Label: CEDAR #4 43TM-1
 X= 9924, Y= 7918, Z= 2744.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I,X./I,STD,	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	10020.09	81.81	1.42990	0.19938	0.3	
FE	48089.	520.14	6.70	0.95119	0.07251	1.1	
CA	38369.	41.34	15.40	0.01917	0.00121	5.8	
MG	38499.	5916.59	98.22	2.95951	0.13040	0.5	
MN	52197.	26.17	6.17	0.02220	0.00309	5.8	

ELEMENT	I,X/I,STD,	WT. % CONCEN,	NORMALIZED ATOM, CON,	COMPOUND	WT. % CONCEN,	1 SIGMA ERROR
CA :	0.0192	0.136	0.0284	CAO	0.190	0.011
FE :	0.9512	8.857	1.3304	FEO	11.394	0.130
MN :	0.0222	0.382	0.0583	MNO	0.493	0.029
SI :	1.4299	26.566	7.9350	SI02	56.831	0.164
MG :	2.9595	19.454	6.7129	MGO	32.257	0.154
O		45.771	24.0000			

Fs 16.5
 Wo 0.4

TOTAL : 101.165 101.165
 ITERATION : 4

POINT # : 46

Label: CEDAR #4 43TM-1
 X=10128, Y= 7837, Z= 2744.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I,X./I,STD,	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	6576.92	70.01	0.93649	0.13058	0.3	
FE	48089.	864.79	8.70	1.58649	0.12094	1.0	
CA	38369.	17.83	15.48	0.00174	0.00011	45.9	
MG	38499.	7472.19	115.03	3.74339	0.16493	0.5	
MN	52197.	25.83	6.09	0.02192	0.00305	5.8	

ELEMENT	I,X/I,STD,	WT. % CONCEN,	NORMALIZED ATOM, CON,	COMPOUND	WT. % CONCEN,	1 SIGMA ERROR
CA :	0.0017	0.012	0.0028	CAO	0.017	0.008
FE :	1.5865	14.608	2.3965	FEO	18.793	0.189
MN :	0.0219	0.371	0.0619	MNO	0.479	0.028
SI :	0.9365	18.261	5.9569	SI02	39.065	0.125
MG :	3.7434	25.541	9.6251	MGO	42.348	0.196
O		41.910	24.0000			

Fa 19.9

TOTAL : 100.702 100.702
 ITERATION : 4

POINT # : 47

Label: CEDAR #4 43TM-1
X= 9945, Y= 7544, Z= 2744.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	6641.60	69.61	0.94550	0.13184	0.3	
FE	48089.	830.04	8.90	1.52114	0.11595	1.0	
CA	38369.	21.13	14.87	0.00463	0.00029	18.4	
MG	38499.	7750.30	123.84	3.87893	0.17091	0.5	
MN	52197.	26.47	5.67	0.02308	0.00322	5.5	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0046	0.032	0.0073	CAO	0.045	0.008
FE :	1.5211	14.020	2.2675	FEO	18.036	0.183
MN :	0.0231	0.391	0.0643	MNO	0.505	0.028
SI :	0.9455	18.429	5.9267	SI02	39.424	0.126
MG :	3.8789	26.399	9.8076	MGO	43.771	0.202
O		42.511	24.0000			

Fe 18.8

TOTAL : 101.781
ITERATION : 0

POINT # : 48

Label: CEDAR #4 43TM-1
X=10038, Y= 7116, Z= 2744.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	6676.61	62.61	0.95177	0.13271	0.3	
FE	48089.	809.11	7.80	1.48475	0.11318	1.0	
CA	38369.	17.40	14.83	0.00190	0.00012	41.5	
MG	38499.	7818.27	123.14	3.91479	0.17249	0.5	
MN	52197.	24.57	5.16	0.02154	0.00300	5.6	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0019	0.013	0.0030	CAO	0.019	0.008
FE :	1.4847	13.692	2.2055	FEO	17.614	0.180
MN :	0.0215	0.365	0.0597	MNO	0.471	0.026
SI :	0.9518	18.546	5.9401	SI02	39.674	0.126
MG :	3.9148	26.625	9.8516	MGO	44.146	0.204
O		42.684	24.0000			

Fe 18.3

TOTAL : 101.924
ITERATION : 0

POINT # : 49

Label: CEDAR #4 43TM-1
X= 9695, Y= 7784, Z= 2744.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.3
FE	48089.	812.18	8.40	1.48920	0.11352	1.0	
SI	27745.	6621.71	59.60	0.94422	0.13166	0.3	
CA	38369.	21.37	15.57	0.00429	0.00027	20.3	
MG	38499.	7887.78	124.64	3.94864	0.17298	0.5	

MN 52197. 23.50 6.01 0.01942 0.00271 6.3

ELEMENT	I,X/I,STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0043	0.030	0.0067	CaO	0.042	0.008
FE :	1.4892	13.732	2.2126	FeO	17.666	0.180
MN :	0.0194	0.329	0.0539	MnO	0.425	0.027
SI :	0.9442	18.405	5.8967	SiO2	39.373	0.125
MG :	3.9486	26.838	9.9334	MgO	44.499	0.205
O		42.671	24.0000			

Fa18.2

TOTAL : 102.005 102.005
ITERATION : 0

POINT # : 50

Label: CEDAR #4 43TM-1
X= 9947, Y= 8444, Z= 2743.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I,X./I,STD.	K.RATIO	SIG %	BEAM
SI	27745.	6246.00	67.21	0.88929	0.12400	0.3	30.3
FE	48089.	864.96	8.00	1.58812	0.12106	1.0	
CA	38369.	20.70	16.74	0.00293	0.00018	29.0	
MG	38499.	7364.53	117.53	3.68741	0.16247	0.5	
MN	52197.	26.70	3.97	0.02524	0.00352	4.9	

ELEMENT	I,X/I,STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0029	0.020	0.0048	CaO	0.029	0.008
FE :	1.5881	14.623	2.4706	FeO	18.812	0.189
MN :	0.0252	0.427	0.0734	MnO	0.552	0.027
SI :	0.8893	17.378	5.8382	SiO2	37.176	0.121
MG :	3.6874	25.185	9.7747	MgO	41.759	0.194
O		40.693	24.0000			

Fa20.2

TOTAL : 98.326 98.326
ITERATION : 0

POINT # : 51

Label: CEDAR #4 43TM-1
X=10543, Y= 8158, Z= 2741.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I,X./I,STD.	K.RATIO	SIG %	BEAM
SI	27745.	6659.64	63.91	0.94906	0.13233	0.3	30.3
FE	48089.	806.47	8.40	1.47862	0.11271	1.0	
CA	38369.	18.37	15.51	0.00211	0.00013	38.3	
MG	38499.	7866.58	124.94	3.93813	0.17351	0.5	
MN	52197.	25.53	6.31	0.02134	0.00297	6.0	

ELEMENT	I,X/I,STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0021	0.015	0.0033	CaO	0.021	0.008
FE :	1.4786	13.637	2.1954	FeO	17.543	0.179
MN :	0.0213	0.361	0.0591	MnO	0.467	0.028
SI :	0.9491	18.495	5.9207	SiO2	39.566	0.126
MG :	3.9381	26.772	9.9007	MgO	44.389	0.205
O		42.707	24.0000			

Fa18.7

TOTAL : 101.984 101.984

ITERATION : 0

POINT # : 52

Label: CEDAR #4 43TM-1
X=10304, Y= 7019, Z= 2744.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
SI	27745.	6672.37	61.50	0.95115	0.13262	0.3	30.3
FE	48089.	819.41	6.90	1.50523	0.11474	1.0	
CA	38369.	18.60	15.88	0.00201	0.00013	40.7	
MG	38499.	7842.37	128.14	3.92380	0.17288	0.5	
MN	52197.	26.10	6.13	0.02217	0.00309	5.8	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0020	0.014	0.0031	CAO	0.020	0.008
FE :	1.5052	13.876	2.2310	FEO	17.852	0.182
MN :	0.0222	0.375	0.0614	MNO	0.485	0.028
SI :	0.9511	18.534	5.9252	SI02	39.649	0.126
MG :	3.9238	26.681	9.8540	MGO	44.240	0.204
O		42.764	24.0000			

Fe 18.5

TOTAL : 102.245
ITERATION : 0

POINT # : 53

Label: CEDAR #4 43TM-1
X=10209, Y= 6927, Z= 2744.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
SI	27745.	10086.24	86.01	1.43894	0.20064	0.3	30.3
FE	48089.	503.74	8.70	0.91719	0.06992	1.2	
CA	38369.	86.75	16.59	0.05186	0.00327	2.9	
MG	38499.	5902.50	102.43	2.95047	0.13000	0.5	
MN	52197.	26.30	4.84	0.02382	0.00332	5.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0519	0.368	0.0768	CAO	0.514	0.015
FE :	0.9172	8.543	1.2807	FEO	10.991	0.127
MN :	0.0238	0.410	0.0624	MNO	0.529	0.028
SI :	1.4389	26.698	7.9576	SI02	57.114	0.165
MG :	2.9505	19.356	6.6650	MGO	32.094	0.153
O		45.868	24.0000			

Fe 16.0

W0 1.0

TOTAL : 101.243
ITERATION : 4

POINT # : 54

Label: CEDAR #4 43TM-1
X=10453, Y= 6451, Z= 2751.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
SI	27745.	8857.40	85.84	1.43894	0.18804	0.3	30.3

FE	48089.	529.19	6.20	0.96906	0.07387	1.1
CA	38369.	86.65	15.86	0.05233	0.00330	2.9
MG	38499.	5813.72	102.13	2.90571	0.12803	0.5
MN	52197.	27.73	5.27	0.02494	0.00348	5.3

ELEMENT	I,X/I,STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0523	0.371	0.0782	CAO	0.519	0.015
FE :	0.9691	9.020	1.3642	FEO	11.604	0.131
MN :	0.0249	0.429	0.0659	MNO	0.554	0.029
SI :	1.4204	26.375	7.9320	SI02	56.424	0.163
MG :	2.9057	19.077	6.6277	MGO	31.631	0.151
O		45.460	24.0000			

Fe 16.9
W0 1.0

TOTAL : 100.732 100.732
ITERATION : 0

POINT # : 55

Label: CEDAR #4 43TM-1
X=10496, Y= 6209, Z= 2750.

30 30 30 30 30

ELT.	PEAK POS.	PFAK (C/S)	BACKGR. (C/S)	I,X./I,STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	6622.84	61.61	0.94435	0.13168	0.3	
FE	48089.	806.80	7.90	1.48056	0.11286	1.0	
CA	38369.	18.27	16.04	0.00165	0.00010	49.4	
MG	38499.	7860.22	119.94	3.93848	0.17353	0.5	
MN	52197.	26.60	5.00	0.02398	0.00334	5.2	

ELEMENT	I,X/I,STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0016	0.012	0.0026	CAO	0.016	0.008
FE :	1.4806	13.649	2.2055	FEO	17.559	0.179
MN :	0.0240	0.407	0.0668	MNO	0.525	0.027
SI :	0.9444	18.459	5.9308	SI02	39.489	0.126
MG :	3.9385	26.574	9.8634	MGO	44.061	0.203
O		42.551	24.0000			

Fe 18.3

TOTAL : 101.652 101.652
ITERATION : 4

POINT # : 56

Label: CEDAR #4 43TM-1
X=10444, Y= 5775, Z= 2750.

30 30 30 30 30

ELT.	PEAK POS.	PFAK (C/S)	BACKGR. (C/S)	I,X./I,STD.	K.RATIO	SIG %	BEAM
							30.3
SI	27745.	6589.48	62.10	0.93901	0.13093	0.3	
FE	48089.	810.18	8.00	1.48589	0.11327	1.0	
CA	38369.	18.10	17.00	0.00082	0.00005	98.7	
MG	38499.	7821.05	115.73	3.91875	0.17266	0.5	
MN	52197.	26.10	5.09	0.02332	0.00325	5.4	

ELEMENT	I,X/I,STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0008	0.006	0.0013	CAO	0.008	0.008
FE :	1.4859	13.697	2.2230	FEO	17.621	0.180
MN :	0.0233	0.396	0.0653	MNO	0.511	0.028
SI :	0.9390	18.359	5.9248	SI02	39.276	0.125
MG :	3.9188	26.450	9.8608	MGO	43.852	0.202
O		42.551	24.0000			

Fe 18.4

0 42.364 24.0000
 TOTAL : 101.273 101.273
 ITERATION : 0

POINT # : 57
 Label: CEDAR #4 43TM-1
 X=10453, Y= 5567, Z= 2750.
 30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
SI	27745.	6489.72	64.41	0.92420	0.12887	0.3	30.3
FE	48089.	895.87	8.10	1.64420	0.12534	1.0	
CA	38369.	18.93	17.12	0.00134	0.00008	62.3	
MG	38499.	7359.04	119.23	3.68147	0.16221	0.5	
MN	52197.	25.97	5.93	0.02223	0.00310	5.7	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0013	0.009	0.0022	CAO	0.013	0.008
FE :	1.6442	15.127	2.5005	FEO	17.460	0.195
MN :	0.0222	0.376	0.0632	MNO	0.486	0.028
SI :	0.9242	18.020	5.9230	SI02	38.551	0.124
MG :	3.6815	25.251	9.5881	MGO	41.868	0.194
O		41.594	24.0000			

TOTAL : 100.378 100.378
 ITERATION : 4

POINT # : 58
 Label: CEDAR #4 43TM-1
 X=10601, Y= 5432, Z= 2750.
 30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
SI	27745.	6648.31	61.61	0.94754	0.13212	0.3	30.3
FE	48089.	803.19	9.00	1.47108	0.11214	1.0	
CA	38369.	19.03	16.42	0.00193	0.00012	42.7	
MG	38499.	7894.51	127.44	3.95012	0.17404	0.5	
MN	52197.	25.83	6.83	0.02109	0.00294	6.0	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0019	0.014	0.0030	CAO	0.019	0.008
FE :	1.4711	13.565	2.1884	FEO	17.451	0.179
MN :	0.0211	0.358	0.0587	MNO	0.462	0.028
SI :	0.9475	18.521	5.9416	SI02	39.621	0.126
MG :	3.9501	26.622	9.8664	MGO	44.141	0.203
O		42.615	24.0000			

TOTAL : 101.694 101.694
 ITERATION : 4

POINT # : 59
 Label: CEDAR #4 43TM-1
 X=10664, Y= 5701, Z= 2750.
 30 30 30 30 30

ELT. PEAK POS. PEAK (C/S) BACKGR. (C/S) I.X./I.STD. K.RATIO SIG % BEAM

Fa 20.7

Fa 18.2

	POS.	(C/S)	(C/S)				
SI	27745.	6568.06	60.10	0.93605	0.13052	0.3	30.3
FE	48089.	845.09	7.50	1.55121	0.11825	1.0	
CA	38369.	20.87	15.23	0.00416	0.00026	20.3	
MG	38499.	7581.99	113.53	3.79759	0.16732	0.5	
MN	52197.	24.13	5.04	0.02118	0.00295	5.8	

ELEMENT	I, X/Y, STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0042	0.029	0.0067	CAO	0.041	0.008
FE :	1.5512	14.287	2.3413	FEO	18.380	0.186
MN :	0.0212	0.360	0.0599	MNO	0.464	0.027
SI :	0.9360	18.306	5.9651	SI02	39.161	0.125
MG :	3.7976	25.666	9.6619	MGO	42.556	0.197
O		41.954	24.0000			
TOTAL :		100.601			100.601	
ITERATION :	0					

Fa 19.5

POINT # : 60

Label: CEDAR #4 43TM-1
X=10595, Y= 5763, Z= 2750.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I, X./Y, STD.	K. RATIO	SIG %	BEAM
FE	48089.	829.51	7.10	1.52309	0.11610	1.0	30.3
SI	27745.	6602.89	65.21	0.94032	0.13112	0.3	
CA	38369.	24.50	16.56	0.00587	0.00037	15.3	
MG	38499.	7838.56	124.84	3.92230	0.17282	0.5	
MN	52197.	23.33	5.49	0.01980	0.00276	6.1	

ELEMENT	I, X/Y, STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0059	0.041	0.0093	CAO	0.057	0.009
FE :	1.5231	14.034	2.2711	FEO	18.054	0.183
MN :	0.0198	0.336	0.0553	MNO	0.434	0.027
SI :	0.9403	18.386	5.9163	SI02	39.332	0.126
MG :	3.9223	26.448	9.8318	MGO	43.852	0.202
O		42.486	24.0000			
TOTAL :		101.730			101.730	
ITERATION :	0					

Fa 18.8

POINT # : 61

Label: CEDAR #4 43TM-1
X= 9724, Y= 6748, Z= 2750.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I, X./Y, STD.	K. RATIO	SIG %	BEAM
SI	27745.	6576.89	63.41	0.93694	0.13064	0.3	30.3
FE	48089.	802.15	6.20	1.47424	0.11238	1.0	
CA	38369.	18.17	15.10	0.00226	0.00014	35.3	
MG	38499.	7877.62	132.34	3.93876	0.17354	0.5	
MN	52197.	25.33	4.91	0.02267	0.00316	5.4	

ELEMENT	I, X/Y, STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0023	0.016	0.0036	CAO	0.022	0.008
FE :	1.4742	13.804	2.2624	FEO	17.100	0.170
MN :	0.0198	0.336	0.0553	MNO	0.434	0.027
SI :	0.9403	18.386	5.9163	SI02	39.332	0.126
MG :	3.9223	26.448	9.8318	MGO	43.852	0.202
O		42.486	24.0000			
TOTAL :		101.730			101.730	
ITERATION :	0					

Fa 18.2

MN :	0.0227	0.385	0.0635	MNO	0.497	0.027
SI :	0.9369	18.322	5.9135	SI02	39.197	0.125
MG :	3.9388	26.551	9.8995	MGO	44.023	0.203
O		42.359	24.0000			

TOTAL : 101.226 101.226
 ITERATION : 0

POINT # : 62

Label: CEDAR #4 43TM-1
 X=10588, Y= 6577, Z= 2740.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG X	BEAM
							30.3
SI	27745.	6604.88	61.50	0.94139	0.13126	0.3	
FE	48089.	828.40	7.70	1.52034	0.11589	1.0	
CA	38369.	18.07	15.91	0.00159	0.00010	51.3	
MG	38499.	7679.81	124.24	3.84292	0.16932	0.5	
MN	52197.	25.10	5.65	0.02159	0.00301	5.8	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0016	0.011	0.0025	CAO	0.016	0.008
FE :	1.5203	14.009	2.2840	FEO	18.022	0.183
MN :	0.0216	0.366	0.0607	MNO	0.473	0.028
SI :	0.9414	18.406	5.9669	SI02	39.375	0.126
MG :	3.8429	25.951	9.7189	MGO	43.028	0.199
O		42.171	24.0000			

TOTAL : 100.914 100.914
 ITERATION : 0

POINT # : 63

Label: CEDAR #4 43TM-1
 X=10814, Y= 6561, Z= 2745.

30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG X	BEAM
							30.3
FE	48089.	813.52	9.00	1.49062	0.11363	1.0	
SI	27745.	6625.24	62.60	0.94432	0.13167	0.3	
CA	38369.	18.93	16.91	0.00149	0.00009	56.1	
MG	38499.	7828.89	122.14	3.92048	0.17274	0.5	
MN	52197.	25.03	5.43	0.02176	0.00303	5.7	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0015	0.010	0.0024	CAO	0.015	0.008
FE :	1.4906	13.741	2.2242	FEO	17.678	0.181
MN :	0.0218	0.369	0.0608	MNO	0.477	0.027
SI :	0.9443	18.460	5.9416	SI02	39.492	0.126
MG :	3.9205	26.436	9.8295	MGO	43.834	0.202
O		42.477	24.0000			

TOTAL : 101.495 101.495
 ITERATION : 0

POINT # : 64

Label: CEDAR #4 43TM-1
 X=11403, Y= 6924, Z= 2740.

Fa_{19.0}

Fa_{18.5}

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	STG %	BEAM
SI	27745.	10092.17	79.01	1.44082	0.20090	0.3	30.3
FE	48089.	510.15	8.10	0.93020	0.07091	1.1	
CA	38369.	91.15	16.00	0.05555	0.00350	2.8	
MG	38499.	5884.31	96.42	2.94431	0.12973	0.5	
MN	52197.	25.20	4.12	0.02340	0.00326	5.3	

1.44082
30.3
Fs 14.52 0.8
Wo 0.12 0.5
M 10

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0556	0.394	0.0821	CAO	0.551	0.015
FE :	0.9302	8.662	1.2968	FEO	11.144	0.128
MN :	0.0234	0.402	0.0612	MNO	0.520	0.027
SI :	1.4408	26.729	7.9568	SI02	57.181	0.165
MG :	2.9443	19.326	6.6462	MGO	32.044	0.153
O		45.926	24.0000			

Fs 16.2
Wo 1.0

TOTAL :	ITERATION :	4	101.439	NORMALIZED CONCEN.	ATOM. CON.	COMPOUND	CONCEN.	1 SIGMA ERROR
CA :			0.0556	0.394	0.0821	CAO	0.551	0.015
FE :			0.9302	8.662	1.2968	FEO	11.144	0.128
MN :			0.0234	0.402	0.0612	MNO	0.520	0.027
SI :			1.4408	26.729	7.9568	SI02	57.181	0.165
MG :			2.9443	19.326	6.6462	MGO	32.044	0.153
O				45.926	24.0000			

Fs 16.1
Wo 0.5

POINT 1 : 36

Label: CPDAR 14 42TR-1
X= 7095, Y= 7518, Z= 7784.

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	STG %	BEAM
SI	27745.	10092.17	79.01	1.44082	0.20090	0.3	30.3
FE	48089.	510.15	8.10	0.93020	0.07091	1.1	
CA	38369.	91.15	16.00	0.05555	0.00350	2.8	
MG	38499.	5884.31	96.42	2.94431	0.12973	0.5	
MN	52197.	25.20	4.12	0.02340	0.00326	5.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0556	0.394	0.0821	CAO	0.551	0.015
FE :	0.9302	8.662	1.2968	FEO	11.144	0.128
MN :	0.0234	0.402	0.0612	MNO	0.520	0.027
SI :	1.4408	26.729	7.9568	SI02	57.181	0.165
MG :	2.9443	19.326	6.6462	MGO	32.044	0.153
O		45.926	24.0000			

Fs 16.6
Wo 0.7

POINT 2 : 37

Label: CPDAR 14 42TR-1
X= 7095, Y= 7518, Z= 7784.

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	STG %	BEAM
SI	27745.	10092.17	79.01	1.44082	0.20090	0.3	30.3
FE	48089.	510.15	8.10	0.93020	0.07091	1.1	
CA	38369.	91.15	16.00	0.05555	0.00350	2.8	
MG	38499.	5884.31	96.42	2.94431	0.12973	0.5	
MN	52197.	25.20	4.12	0.02340	0.00326	5.3	