

# CEDAR #3

POINT # : 66

Label: CEDAR #3 SM 1009  
X= 8566, Y=27588, Z= 2826.

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.	6643.93	64.61	0.94555	0.13184	0.3	
FE	48089.	818.87	7.90	1.50070	0.11440	1.0	
CA	38369.	19.60	16.45	0.00232	0.00015	35.3	
MG	38499.	7864.93	123.54	3.93319	0.17330	0.5	
MN	52197.	27.33	6.92	0.02263	0.00315	5.8	

ELEMENT	I,X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0023	0.016	0.0037	CAO	0.023	0.008
FE :	1.5007	13.830	2.2313	FEO	17.791	0.181
MN :	0.0226	0.384	0.0630	MNO	0.496	0.029
SI :	0.9455	18.482	5.9295	SI02	39.539	0.126
MG :	3.9332	26.558	9.8430	MGO	44.035	0.203
O		42.614	24.0000			

TOTAL : 101.884 101.884  
ITERATION : 4

POINT # : 67

Label: CEDAR #3 SM 1009  
X= 8751, Y=27654, Z= 2826.

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.	10037.12	89.11	1.42930	0.19930	0.3	
FE	48089.	519.47	7.30	0.94752	0.07223	1.1	
CA	38369.	89.18	16.21	0.05386	0.00339	2.9	
MG	38499.	5838.73	97.72	2.91607	0.12848	0.5	
MN	52197.	26.90	4.41	0.02493	0.00347	5.1	

ELEMENT	I,X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0539	0.381	0.0801	CAO	0.534	0.015
FE :	0.9475	8.822	1.3287	FEO	11.349	0.129
MN :	0.0249	0.428	0.0656	MNO	0.553	0.020
SI :	1.4293	26.521	7.9426	SI02	56.737	0.164
MG :	2.9161	19.193	6.6404	MGO	31.824	0.152
O		45.650	24.0000			

TOTAL : 100.997 100.997  
ITERATION : 4

POINT # : 68

Label: CEDAR #3 SM 1009  
X= 8732, Y=27410, Z= 2826.

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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Fa<sub>18.5</sub>

Fs<sub>16.5</sub>

Wo<sub>1.0</sub>

SI	27745.	10104.94	83.91	1.43946	0.20071	0.3
FE	48089.	505.78	8.00	0.92068	0.07018	1.2
CA	38369.	82.81	13.84	0.05090	0.00321	2.9
MG	38499.	5945.84	96.22	2.97057	0.13088	0.5
MN	52197.	25.37	4.29	0.02336	0.00326	5.2

ELEMENT	I, X/I, STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0509	0.361	0.0751	CAO	0.504	0.015
FE :	0.9207	8.576	1.2821	FEO	11.032	0.127
MN :	0.0234	0.402	0.0610	MNO	0.519	0.027
SI :	1.4395	26.698	7.9367	SI02	57.115	0.165
MG :	2.9706	19.534	6.7085	MGO	32.389	0.154
O		45.989	24.0000			
TOTAL :		101.560			101.560	
ITERATION :	0					

FS 15.9  
W<sub>0.9</sub>

POINT # : 69

Label: CEDAR #3 SH 1009  
X= 8657, Y=27302, Z= 2826.  
30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I, X, /I, STD.	K, RATIO	SIG %	BEAM
SI	27745.	10091.72	82.41	1.43788	0.20049	0.3	30.3
FE	48089.	507.92	7.10	0.92636	0.07062	1.1	
CA	38369.	81.15	13.78	0.04971	0.00313	3.0	
MG	38499.	5912.57	103.23	2.95032	0.12999	0.5	
MN	52197.	23.40	5.87	0.01943	0.00271	6.2	

ELEMENT	I, X/I, STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0497	0.352	0.0736	CAO	0.493	0.015
FE :	0.9264	8.628	1.2933	FEO	11.100	0.127
MN :	0.0194	0.334	0.0509	MNO	0.431	0.027
SI :	1.4379	26.671	7.9497	SI02	57.056	0.165
MG :	2.9503	19.408	6.6828	MGO	32.179	0.154
O		45.867	24.0000			
TOTAL :		101.259			101.259	
ITERATION :	0					

FS 16.1  
W<sub>0.9</sub>

POINT # : 70

Label: CEDAR #3 SH 1009  
X= 8830, Y=27034, Z= 2826.  
30 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I, X, /I, STD.	K, RATIO	SIG %	BEAM
SI	27745.	10045.93	86.01	1.43075	0.19950	0.3	30.3
CA	38369.	97.95	14.84	0.06133	0.00386	2.7	
FE	48089.	531.90	7.60	0.96978	0.07393	1.1	
MG	38499.	5797.45	98.22	2.89433	0.12753	0.5	
MN	52197.	26.47	5.15	0.02363	0.00329	5.3	

ELEMENT	I, X/I, STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0613	0.434	0.0911	CAO	0.608	0.016
FE :	0.9698	9.026	1.3591	FEO	11.612	0.132
MN :	0.0234	0.402	0.0610	MNO	0.519	0.027

FS 16.9  
W<sub>0.9</sub>

SI : 1.4308 26.547 7.9481 SI02 56.791 0.164  
 MG : 2.8943 19.057 6.5915 K60 31.598 0.151  
 O 45.663 24.0000

TOTAL : 101.134 101.134  
 ITERATION : 0

POINT # : 71

Label: CEDAR #3 SM 1009  
 X= 9446, Y=27535, Z= 2826.

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.	6604.09	67.51	0.93933	0.13098	0.3	
FE	48089.	830.88	7.10	1.52428	0.11619	1.0	
CA	38369.	18.43	14.93	0.00259	0.00016	31.0	
MG	38499.	7737.31	126.34	3.86664	0.17037	0.5	
MN	52197.	25.23	5.00	0.02243	0.00313	5.5	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0026	0.018	0.0041	CAO	0.025	0.008
FE :	1.5243	14.045	2.2835	FEO	18.049	0.183
MN :	0.0224	0.380	0.0629	MNO	0.491	0.027
SI :	0.9393	18.347	5.9315	SI02	39.250	0.125
MG :	3.8666	26.204	9.7866	K60	43.449	0.201
O		42.289	24.0000			

*Fa 18.9*

TOTAL : 101.284 101.284  
 ITERATION : 4

POINT # : 72

Label: CEDAR #3 SM 1009  
 X= 9403, Y=28091, Z= 2826.

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.	6630.10	62.81	0.94362	0.13157	0.3	
FE	48089.	814.63	6.50	1.49511	0.11397	1.0	
CA	38369.	17.67	16.22	0.00107	0.00007	75.5	
MG	38499.	7848.60	124.44	3.92360	0.17287	0.5	
MN	52197.	26.20	5.96	0.02244	0.00313	5.7	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0011	0.007	0.0017	CAO	0.010	0.008
FE :	1.4951	13.782	2.2278	FEO	17.731	0.180
MN :	0.0224	0.380	0.0625	MNO	0.491	0.028
SI :	0.9436	18.427	5.9227	SI02	39.421	0.126
MG :	3.9236	26.562	9.8626	K60	44.042	0.203
O		42.536	24.0000			

*Fa 18.4*

TOTAL : 101.696 101.696  
 ITERATION : 0

POINT # : 73

Label: CEDAR #3 SM 1007  
 X= 9231, Y=27884, Z= 2826.

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.	10027.31	81.41	1.42914	0.19927	0.3	
FE	48089.	516.40	8.30	0.94008	0.07166	1.1	
CA	38369.	92.12	13.87	0.05776	0.00364	2.7	
MG	38499.	5867.49	98.92	2.93038	0.12911	0.5	
MN	52197.	25.53	4.13	0.02372	0.00331	5.2	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0578	0.409	0.0858	CaO	0.573	0.015
FE :	0.9401	8.754	1.3174	FeO	11.262	0.129
MN :	0.0237	0.408	0.0624	MnO	0.527	0.027
SI :	1.4291	26.523	7.9365	SiO2	56.740	0.164
MG :	2.9304	19.270	6.6614	MgO	31.951	0.153
O		45.688	24.0000			
TOTAL :		101.053			101.053	
ITERATION :	4					

FS 16.3  
W0 1.1

POINT # : 74

Label: CEDAR #3 SM 1009  
X= 9143, Y=27700, Z= 2826.

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.	6569.57	64.00	0.93490	0.13036	0.3	
FE	48089.	795.46	8.90	1.45546	0.11095	1.0	
CA	38369.	18.87	15.27	0.00266	0.00017	30.0	
MG	38499.	7811.94	126.54	3.90457	0.17204	0.5	
MN	52197.	25.90	4.83	0.02336	0.00326	5.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0027	0.019	0.0042	CaO	0.026	0.008
FE :	1.4555	13.429	2.1913	FeO	17.277	0.177
MN :	0.0234	0.397	0.0658	MnO	0.512	0.027
SI :	0.9349	18.268	5.9271	SiO2	39.081	0.125
MG :	3.9046	26.371	9.8845	MgO	43.726	0.202
O		42.137	24.0000			
TOTAL :		100.621			100.621	
ITERATION :	4					

Fa 18.1

POINT # : 75

Label: CEDAR #3 SM 1009  
X= 7851, Y=28330, Z= 2826.

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.	6628.29	67.41	0.94327	0.13153	0.3	
FE	48089.	816.00	6.80	1.49800	0.11419	1.0	
CA	38369.	18.67	15.31	0.00248	0.00016	32.6	
MG	38499.	7884.74	119.94	3.94664	0.17389	0.5	
MN	52197.	24.60	5.05	0.02168	0.00302	5.7	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
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CA :	0.0025	0.017	0.0039	CAO	0.024	0.008
FE :	1.4980	13.813	2.2299	FEO	17.770	0.181
MN :	0.0217	0.368	0.0604	MNO	0.476	0.027
SI :	0.9433	18.424	5.9143	SI02	39.415	0.126
MG :	3.9466	26.635	9.8771	MGO	44.162	0.203
O		42.590	24.0000			

Fe 18.4

TOTAL : 101.847 101.847

ITERATION : 0

POINT # : 76

Label: CEDAR #3 SM 1009  
X= 7575, Y=28285, Z= 2826.

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.	6667.58	64.61	0.94882	0.13230	0.3	
FE	48089.	819.78	8.60	1.50087	0.11441	1.0	
CA	38369.	19.03	17.17	0.00138	0.00009	60.4	
MG	38499.	7863.66	125.44	3.93105	0.17320	0.5	
MN	52197.	26.77	6.89	0.02203	0.00307	5.8	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0014	0.010	0.0022	CAO	0.013	0.008
FE :	1.5007	13.839	2.2310	FEO	17.804	0.181
MN :	0.0220	0.374	0.0613	MNO	0.483	0.028
SI :	0.9488	18.528	5.9392	SI02	39.637	0.126
MG :	3.9310	26.537	9.8271	MGO	44.001	0.203
O		42.650	24.0000			

Fe 18.5

TOTAL : 101.938 101.938

ITERATION : 0

POINT # : 77

Label: CEDAR #3 SM 1009  
X= 7518, Y=28757, Z= 2826.

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.	6339.75	64.01	0.90184	0.12575	0.3	
FE	48089.	973.22	8.50	1.78507	0.13407	1.0	
CA	38369.	26.10	17.38	0.00644	0.00041	14.4	
MG	38499.	6870.05	109.03	3.43481	0.15134	0.5	
MN	52197.	24.07	5.27	0.02084	0.00290	5.9	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0064	0.045	0.0106	CAO	0.063	0.009
FE :	1.7851	16.397	2.7806	FEO	21.094	0.208
MN :	0.0208	0.352	0.0606	MNO	0.454	0.027
SI :	0.9018	12.539	5.9141	SI02	37.522	0.121
MG :	3.4348	23.926	9.3200	MGO	39.671	0.186
O		40.545	24.0000			

TOTAL : 98.804

98.804

ITERATION : 4

POINT # : 78

Label: CEDAR #3 SM 1009  
 X= 7803, Y=29308, Z= 2823.

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.	6627.46	60.70	0.94398	0.13162	0.3	
FE	48089.	807.27	7.00	1.48126	0.11292	1.0	
CA	38369.	18.10	16.26	0.00136	0.00009	58.4	
MG	38499.	7868.71	124.94	3.93539	0.17339	0.5	
MN	52197.	25.40	4.86	0.02278	0.00318	5.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0014	0.010	0.0021	CAO	0.013	0.008
FE :	1.4813	13.656	2.2080	FEO	17.569	0.179
MN :	0.0228	0.387	0.0635	MNO	0.499	0.027
SI :	0.9440	18.451	5.9318	SI02	39.473	0.126
MG :	3.9354	26.556	9.8627	MGO	44.032	0.203
O		42.526	24.0000			

Fa 18.3

TOTAL : 101.585  
 ITERATION : 4

POINT # : 79

Label: CEDAR #3 SM 1009  
 X= 8038, Y=30374, Z= 2823.

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.	6469.95	63.01	0.92107	0.12843	0.3	
FE	48089.	874.36	8.60	1.60260	0.12216	1.0	
CA	38369.	18.47	16.50	0.00145	0.00009	56.6	
MG	38499.	7461.34	120.04	3.73112	0.16439	0.5	
MN	52197.	23.37	4.95	0.02042	0.00285	5.8	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0014	0.010	0.0023	CAO	0.014	0.008
FE :	1.6026	14.748	2.4438	FEO	18.974	0.191
MN :	0.0204	0.347	0.0584	MNO	0.447	0.026
SI :	0.9211	18.022	5.9380	SI02	38.555	0.124
MG :	3.7311	25.273	9.6194	MGO	41.904	0.194
O		41.494	24.0000			

Fa 20.3

TOTAL : 99.894  
 ITERATION : 0

POINT # : 80

Label: CEDAR #3 SM 1009  
 X= 9209, Y=29758, Z= 2823.

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.	6618.70	65.81	0.94196	0.13134	0.3	
FE	48089.	804.63	7.80	1.47486	0.11243	1.0	
CA	38369.	23.23	15.23	0.00591	0.00037	14.8	
MG	38499.	7802.59	123.04	3.90266	0.17195	0.5	
MN	52197.	27.07	5.38	0.02705	0.00324	5.4	

ELEMENT	I, X/Y, STD,	WT. % CONCEN.	NORMALIZED ATOM, CON,	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
CA :	0.0059	0.041	0.0094	CaO	0.058	0.009
FE :	1.4749	13.599	2.2080	FeO	17.474	0.179
MN :	0.0231	0.391	0.0646	MnO	0.505	0.027
SI :	0.9420	18.414	5.9449	SiO2	39.392	0.126
MG :	3.9027	26.351	9.8282	MgO	43.692	0.202
O		42.345	24.0000			
TOTAL :		101.141			101.141	
ITERATION :	0					

Fe<sub>18.3</sub>