

O_L N=10 F_a 18.6 ± 0.4

P_x N=5 F_S 16.3 ± 0.4

W₀ 1.1 ± 0.1

POINT #: 20

Label: CEDAR USNM240-1
X= 7995. Y= 7146. Z= 2756.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	8252.74	46.90	3.83848	0.16912	0.4	
FE	48091.	862.42	9.90	1.45652	0.11103	1.0	
CA	38376.	16.47	14.57	0.00151	0.00009	55.4	
SI	27749.	6984.63	62.51	0.93196	0.12995	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4565	13.457	2.2205	FE0	17.312	0.170
MG :	3.8385	25.964	9.8413	MG0	43.050	0.191
SI :	0.9320	18.189	5.9679	SI02	38.912	0.120
CA :	0.0015	0.011	0.0024	CA0	0.015	0.008
O		41.668	24.0000			

F_a 18.4

TOTAL : 99.288
ITERATION : 4

POINT #: 21

Label: CEDAR UUSNSNM 240-1
X= 8070. Y= 6878. Z= 2764.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	8141.27	41.20	3.78903	0.16695	0.4	
FE	48091.	886.20	10.50	1.49614	0.11405	1.0	
CA	38376.	17.07	13.95	0.00248	0.00016	32.9	
SI	27749.	7002.14	57.70	0.93497	0.13037	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4961	13.815	2.2815	FE0	17.772	0.174
MG :	3.7890	25.653	9.7316	MG0	42.534	0.189
SI :	0.9350	18.245	5.9915	SI02	39.032	0.121
CA :	0.0025	0.017	0.0040	CA0	0.024	0.008
O		41.632	24.0000			

F_a 19.0

TOTAL : 99.363
ITERATION : 0

POINT #: 22

Label: CEDAR USNM 240-1
X= 8112. Y= 9388. Z= 2744.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	6131.17	40.20	2.84969	0.12556	0.5	
FE	48091.	559.53	9.60	0.93970	0.07163	1.1	
CA	38376.	88.45	12.50	0.06027	0.00379	2.7	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	0.9397	8.765	1.3432	FE0	11.276	0.124
MG :	2.8497	18.799	6.6178	MG0	31.170	0.143
SI :	1.4111	26.167	7.9739	SI02	55.979	0.157
CA :	0.0603	0.427	0.0913	CA0	0.598	0.016
O		44.864	24.0000			

FS 16.7
W0 1.1

TOTAL : 99.022
ITERATION : 4

POINT # : 23

Label: CEDAR USNM 240-1
X= 8648. Y= 9418. Z= 2737.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.2
MG	38511.	6143.54	41.50	2.85474	0.12578	0.5	
FE	48091.	530.93	8.30	0.89302	0.06807	1.1	
CA	38376.	88.15	14.66	0.05831	0.00367	2.8	
SI	27749.	10586.01	72.61	1.41565	0.19739	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	0.8930	8.335	1.2779	FE0	10.723	0.119
MG :	2.8547	18.831	6.6317	MG0	31.222	0.144
SI :	1.4157	26.246	8.0011	SI02	56.147	0.157
CA :	0.0583	0.414	0.0883	CA0	0.579	0.016
O		44.846	24.0000			

FS 16.0
W0 1.1

TOTAL : 98.671
ITERATION : 0

POINT # : 24

Label: CEDAR USNM 240-1
X= 8846. Y=10870. Z= 2733.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.2
MG	38511.	8166.95	45.80	3.80036	0.16744	0.4	
FE	48091.	869.54	12.30	1.46516	0.11169	1.0	
CA	38376.	18.03	14.38	0.00290	0.00018	28.8	
SI	27749.	6892.97	55.90	0.92087	0.12840	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4652	13.539	2.2527	FE0	17.417	0.172
MG :	3.8004	25.772	9.8505	MG0	42.731	0.190
SI :	0.9209	17.971	5.9460	SI02	38.446	0.119
CA :	0.0029	0.020	0.0047	CA0	0.028	0.008
O		41.321	24.0000			

FS 18.6

TOTAL : 98.623
ITERATION : 4

POINT # : 25

Label: CEDAR USNM 240-1

X= 9710. Y=13510. Z= 2706.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	8117.69	44.00	3.77697	0.16641	0.4	
FE	48091.	883.86	10.90	1.49156	0.11370	1.0	
CA	38376.	18.50	13.85	0.00369	0.00023	22.9	
SI	27749.	7001.42	57.80	0.93493	0.13036	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4916	13.777	2.2774	FE0	17.724	0.174
MG :	3.7770	25.624	9.7299	MG0	42.487	0.189
SI :	0.9349	18.234	5.9934	SI02	39.008	0.121
CA :	0.0037	0.026	0.0060	CA0	0.036	0.008
O		41.594	24.0000			

Fa 19.0

TOTAL : 99.255 99.255
ITERATION : 0

POINT # : 26

Label: CEDAR USNM 240-1
X= 6897. Y=13288. Z= 2712.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	8274.95	47.50	3.84919	0.16960	0.4	
FE	48091.	850.91	12.10	1.43333	0.10926	1.0	
CA	38376.	17.80	15.30	0.00199	0.00013	42.8	
SI	27749.	6995.08	60.50	0.93378	0.13020	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4333	13.251	2.1841	FE0	17.047	0.169
MG :	3.8492	26.079	9.8743	MG0	43.241	0.192
SI :	0.9338	18.213	5.9692	SI02	38.962	0.120
CA :	0.0020	0.014	0.0032	CA0	0.019	0.008
O		41.713	24.0000			

Fa 18.1

TOTAL : 99.270 99.270
ITERATION : 0

POINT # : 27

Label: CEDAR USNM 240-1
X= 4595. Y=13260. Z= 2711.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	8224.67	45.50	3.82663	0.16860	0.4	
FE	48091.	862.65	10.00	1.45698	0.11106	1.0	
CA	38376.	19.23	14.78	0.00353	0.00022	24.2	
SI	27749.	6998.68	62.40	0.93402	0.13024	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4570	13.465	2.2206	FE0	17.322	0.171
MG :	3.8266	25.937	9.8259	MG0	43.006	0.191
SI :	0.9340	18.217	5.9739	SI02	38.972	0.121

Fa 18.4

CA : 0.0035 0.025 0.0057 CA0 0.035 0.008
 0 41.690 24.0000

TOTAL : 99.334 99.334
 ITERATION : 0

POINT # : 28

Label: CEDAR USNM 240-1
 X= 3200. Y=13833. Z= 2701.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.2
MG	38511.	8187.48	41.00	3.81126	0.16793	0.4	
FE	48091.	862.12	10.40	1.45536	0.11094	1.0	
CA	38376.	18.47	12.90	0.00441	0.00028	19.4	
SI	27749.	6921.16	57.30	0.92425	0.12887	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4554	13.450	2.2328	FE0	17.303	0.170
MG :	3.8113	25.840	9.8538	MG0	42.845	0.190
SI :	0.9242	18.035	5.9531	SI02	38.581	0.120
CA :	0.0044	0.031	0.0072	CA0	0.043	0.008
0		41.417	24.0000			

Fa 18.5

TOTAL : 98.773 98.773
 ITERATION : 0

POINT # : 29

Label: CEDAR USNM 240-1
 X= 4548. Y=13123. Z= 2703.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.2
MG	38511.	6110.78	41.50	2.83979	0.12512	0.5	
FE	48091.	555.95	9.40	0.93402	0.07120	1.1	
CA	38376.	85.81	12.95	0.05782	0.00364	2.8	
SI	27749.	10671.36	69.71	1.42772	0.19908	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	0.9340	8.711	1.3280	FE0	11.207	0.123
MG :	2.8398	18.711	6.5522	MG0	31.024	0.143
SI :	1.4277	26.446	8.0164	SI02	56.575	0.158
CA :	0.0578	0.410	0.0871	CA0	0.574	0.016
0		45.102	24.0000			

Fs 16.7

Wo 1.1

TOTAL : 99.380 99.380
 ITERATION : 4

POINT # : 30

Label: CEDAR USNM 240-1
 X= 4768. Y=12768. Z= 2713.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.2
FE	48091.	855.39	11.50	1.44216	0.10993	1.0	

MG	38511.	8310.33	46.40	3.86666	0.17037	0.4
CA	38376.	17.43	14.20	0.00257	0.00016	32.7
SI	27749.	7033.26	59.40	0.93917	0.13095	0.3

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4422	13.325	2.1875	FeO	17.143	0.169
MG :	3.8667	26.099	9.8418	MgO	43.274	0.192
SI :	0.9392	18.330	5.9833	SiO2	39.213	0.121
CA :	0.0026	0.018	0.0041	CaO	0.025	0.008
O		41.882	24.0000			

Fe 18.2

TOTAL : 99.655 99.655
ITERATION : 4

POINT # : 31

Label: CEDAR USNM 240-1
X= 6457. Y=12250. Z= 2724.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	8099.00	45.30	3.76997	0.16611	0.4	
FE	48091.	899.55	9.60	1.52154	0.11599	1.0	
CA	38376.	20.40	15.40	0.00397	0.00025	22.6	
SI	27749.	6991.58	57.00	0.93430	0.13027	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.5215	14.042	2.3215	FeO	18.065	0.176
MG :	3.7700	25.492	9.6808	MgO	42.267	0.188
SI :	0.9343	18.239	5.9956	SiO2	39.018	0.121
CA :	0.0040	0.028	0.0064	CaO	0.039	0.009
O		41.588	24.0000			

Fe 19.3

TOTAL : 99.389 99.389
ITERATION : 0

POINT # : 32

Label: CEDAR USNM 240-1
X= 6876. Y=11382. Z= 2728.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
FE	48091.	863.62	10.60	1.45795	0.11114	1.0	
MG	38511.	8158.73	48.20	3.79538	0.16723	0.4	
CA	38376.	17.67	15.27	0.00190	0.00012	45.2	
SI	27749.	6941.93	59.10	0.92703	0.12926	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	1.4580	13.468	2.2384	FeO	17.326	0.171
MG :	3.7954	25.652	9.7933	MgO	42.532	0.189
SI :	0.9270	18.103	5.9826	SiO2	38.727	0.120
CA :	0.0019	0.013	0.0031	CaO	0.019	0.008
O		41.369	24.0000			

Fe 18.6

TOTAL : 98.605 98.605
ITERATION : 0

POINT # : 33

Label: CEDAR USNM 240-1
X= 7061. Y=11165. Z= 2731.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	6124.65	38.20	2.84932	0.12554	0.5	
CA	38376.	94.68	12.17	0.06551	0.00413	2.6	
FE	48091.	549.14	10.10	0.92166	0.07026	1.1	
SI	27749.	10586.36	72.31	1.41667	0.19754	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	0.9217	8.599	1.3163	FE0	11.062	0.122
MG :	2.8493	18.774	6.6013	MG0	31.128	0.143
SI :	1.4167	26.256	7.9916	SI02	56.169	0.157
CA :	0.0655	0.465	0.0991	CA0	0.650	0.017
O		44.916	24.0000			
TOTAL :		99.009			99.009	
ITERATION :		4				

FS 16.4
W0 1.2

POINT # : 34

Label: CEDAR USNM 240-1
X= 7390. Y= 6010. Z= 2764.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	6189.69	38.10	2.87981	0.12688	0.5	
FE	48091.	531.20	9.60	0.89184	0.06798	1.1	
CA	38376.	87.88	15.94	0.05712	0.00360	3.0	
SI	27749.	10626.65	69.01	1.42254	0.19835	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	0.8918	8.324	1.2703	FE0	10.709	0.120
MG :	2.8798	18.965	6.6479	MG0	31.445	0.144
SI :	1.4225	26.358	7.9978	SI02	56.387	0.158
CA :	0.0571	0.405	0.0862	CA0	0.567	0.017
O		45.056	24.0000			
TOTAL :		99.108			99.108	
ITERATION :		0				

FS 15.9
W0 1.1

POINT # : 35

Label: KAER
X=35682. Y=35434. Z= 2617.

30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG Z	BEAM
							30.2
MG	38511.	2155.49	26.90	0.99618	0.04389	0.6	
CA	38376.	1276.22	16.10	1.00021	0.06298	0.7	
FE	48091.	590.33	9.90	0.99214	0.07563	1.1	
SI	27749.	7418.70	61.00	0.99108	0.13819	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	0.9921	9.329	2.0982	FE0	12.002	0.130
MG :	0.9962	7.250	3.7454	MG0	12.021	0.068

KAER STD

SI :	0.9911	17.835	7.9761	SI02	38.155	0.116
CA :	1.0002	7.034	2.2042	CA0	9.841	0.072
O		30.571	24.0000			

TOTAL : 72.018 72.018
 ITERATION : 3

POINT # : 36 Label: MARJ
 X=42168. Y=39026. Z= 2620.
 30 30 30 30

ELT.	PEAK POS.	PEAK (C/S)	BACKGR. (C/S)	I.X./I.STD.	K.RATIO	SIG %	BEAM
							30.2
MG	38511.	9604.17	49.40	4.47070	0.19698	0.4	
FE	48091.	569.31	10.30	0.95533	0.07282	1.1	
CA	38376.	17.20	13.57	0.00288	0.00018	29.1	
SI	27749.	7174.01	58.20	0.95830	0.13362	0.3	

ELEMENT	I.X./I.STD.	WT. % CONCEN.	NORMALIZED ATOM. CON.	COMPOUND	WT. % CONCEN.	1 SIGMA ERROR
FE :	0.9553	8.897	1.4205	FEO	11.445	0.125
MG :	4.4707	28.978	10.6280	MGO	48.048	0.210
SI :	0.9583	18.816	5.9735	SI02	40.252	0.124
CA :	0.0029	0.020	0.0045	CA0	0.029	0.008
O		43.063	24.0000			

MARJ IDEAL Fa_{11.8}
 MEAS Fa_{11.8}

TOTAL : 99.774 99.774
 ITERATION : 4

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