

POINT # : 81

Label: CEDAR #3 TMM USNM  
X= 8368, Y= 6792, Z= 2810.

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.    | 10061.82   | 82.51         | 1.43484     | 0.20007 | 0.3   |      |
| FE   | 48089.    | 516.97     | 6.60          | 0.94487     | 0.07203 | 1.1   |      |
| CA   | 38369.    | 86.75      | 16.24         | 0.05208     | 0.00328 | 2.9   |      |
| MG   | 38499.    | 5871.21    | 99.82         | 2.93365     | 0.12926 | 0.5   |      |
| MN   | 52197.    | 27.80      | 4.14          | 0.02625     | 0.00366 | 4.8   |      |

| ELEMENT | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|---------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :    | 0.0521      | 0.369         | 0.0771                | CAO      | 0.516         | 0.015         |
| FE :    | 0.9449      | 8.796         | 1.3197                | FEO      | 11.316        | 0.129         |
| MN :    | 0.0262      | 0.451         | 0.0688                | MNO      | 0.583         | 0.028         |
| SI :    | 1.4348      | 26.626        | 7.9434                | SI02     | 56.960        | 0.165         |
| MG :    | 2.9336      | 19.288        | 6.6474                | MGO      | 31.980        | 0.153         |
| O       |             | 45.826        | 24.0000               |          |               |               |

TOTAL : 101.355  
ITERATION : 4

Fs 16.4  
Wo 1.0

POINT # : 82

Label: CEDAR #3 TMM USNM  
X= 8758, Y= 6792, Z= 2810.

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.    | 6615.59    | 63.61         | 0.94174     | 0.13131 | 0.3   |      |
| FE   | 48089.    | 806.83     | 7.40          | 1.47954     | 0.11278 | 1.0   |      |
| CA   | 38369.    | 16.57      | 15.71         | 0.00064     | 0.00004 | 99.9  |      |
| MG   | 38499.    | 7845.57    | 122.14        | 3.92458     | 0.17292 | 0.5   |      |
| MN   | 52197.    | 25.90      | 6.10          | 0.02196     | 0.00306 | 5.8   |      |

| ELEMENT | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|---------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :    | 0.0006      | 0.004         | 0.0010                | CAO      | 0.006         | 0.006         |
| FE :    | 1.4795      | 13.643        | 2.2110                | FEO      | 17.551        | 0.179         |
| MN :    | 0.0220      | 0.373         | 0.0614                | MNO      | 0.481         | 0.028         |
| SI :    | 0.9417      | 18.406        | 5.9314                | SI02     | 39.375        | 0.126         |
| MG :    | 3.9246      | 26.495        | 9.8637                | MGO      | 43.931        | 0.203         |
| O       |             | 42.424        | 24.0000               |          |               |               |

TOTAL : 101.345  
ITERATION : 4

Fa 18.3

POINT # : 83

Label: CEDAR #3 TMM USNM  
X= 8775, Y= 5936, Z= 2817.

30 30 30 30 30

| PEAK      | PEAK     | BACKGR. | I.X./I.STD. | K.RATIO | SIG Z | BEAM |
|-----------|----------|---------|-------------|---------|-------|------|
| PDS.      | (C/S)    | (C/S)   |             |         |       |      |
| SI 27745. | 10008.99 | 83.31   | 1.42673     | 0.19894 | 0.3   | 30.3 |
| CA 38369. | 96.82    | 13.38   | 0.06161     | 0.00388 | 2.6   |      |
| FE 48089. | 522.88   | 8.80    | 0.95148     | 0.07253 | 1.1   |      |
| MG 38499. | 5854.59  | 99.02   | 2.92479     | 0.12887 | 0.5   |      |
| MN 52197. | 25.30    | 4.79    | 0.02274     | 0.00317 | 5.3   |      |

| ELEMENT     | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|-------------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :        | 0.0616      | 0.436         | 0.0916                | CAO      | 0.611         | 0.016         |
| FE :        | 0.9515      | 8.858         | 1.3339                | FEO      | 11.376        | 0.130         |
| MN :        | 0.0227      | 0.391         | 0.0598                | MNO      | 0.505         | 0.027         |
| SI :        | 1.4267      | 26.480        | 7.9285                | SI02     | 56.649        | 0.164         |
| MG :        | 2.9248      | 19.248        | 6.6577                | MGO      | 31.915        | 0.153         |
| O           |             | 45.661        | 24.0000               |          |               |               |
| TOTAL :     |             | 101.075       |                       |          | 101.075       |               |
| ITERATION : | 4           |               |                       |          |               |               |

FS 16.5  
W0 1.1

POINT # : 84

Label: CEDAR #3 TMM USNM  
X=10692, Y= 6124, Z= 2804.

30 30 30 30 30

| ELT. | PEAK PDS. | PEAK (C/S) | BACKGR. (C/S) | I.X./I.STD. | K.RATIO | SIG Z | BEAM |
|------|-----------|------------|---------------|-------------|---------|-------|------|
| SI   | 27745.    | 10084.47   | 78.81         | 1.43873     | 0.20061 | 0.3   | 30.3 |
| FE   | 48089.    | 502.27     | 9.70          | 0.91198     | 0.06952 | 1.2   |      |
| CA   | 38369.    | 75.74      | 15.53         | 0.04448     | 0.00280 | 3.2   |      |
| MG   | 38499.    | 5926.18    | 97.62         | 2.96291     | 0.13055 | 0.5   |      |
| MN   | 52197.    | 26.03      | 4.79          | 0.02356     | 0.00328 | 5.3   |      |

| ELEMENT     | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|-------------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :        | 0.0445      | 0.315         | 0.0658                | CAO      | 0.441         | 0.014         |
| FE :        | 0.9120      | 8.496         | 1.2724                | FEO      | 10.930        | 0.127         |
| MN :        | 0.0236      | 0.405         | 0.0617                | MNO      | 0.523         | 0.028         |
| SI :        | 1.4387      | 26.689        | 7.9481                | SI02     | 57.095        | 0.165         |
| MG :        | 2.9629      | 19.487        | 6.7040                | MGO      | 32.310        | 0.154         |
| O           |             | 45.908        | 24.0000               |          |               |               |
| TOTAL :     |             | 101.299       |                       |          | 101.299       |               |
| ITERATION : | 0           |               |                       |          |               |               |

FS 15.8  
W0 0.8

POINT # : 85

Label: CEDAR #3 TMM USNM  
X=11521, Y= 5945, Z= 2810.

30 30 30 30 30

| ELT. | PEAK PDS. | PEAK (C/S) | BACKGR. (C/S) | I.X./I.STD. | K.RATIO | SIG Z | BEAM |
|------|-----------|------------|---------------|-------------|---------|-------|------|
| SI   | 27745.    | 10009.79   | 75.61         | 1.42807     | 0.19912 | 0.3   | 30.3 |
| FE   | 48089.    | 525.69     | 8.00          | 0.95822     | 0.07304 | 1.1   |      |
| CA   | 38369.    | 96.15      | 15.27         | 0.05973     | 0.00376 | 2.7   |      |
| MG   | 38499.    | 5804.78    | 99.32         | 2.89956     | 0.12776 | 0.5   |      |
| MN   | 52197.    | 27.63      | 5.96          | 0.02404     | 0.00335 | 5.4   |      |

| ELEMENT | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|---------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :    | 0.0597      | 0.423         | 0.0889                | CAO      | 0.592         | 0.016         |



|      |         |        |         |      |        |        |
|------|---------|--------|---------|------|--------|--------|
| FE : | 0.77881 | 0.1920 | 1.33477 | FE   | 11.478 | 0.1101 |
| MN : | 0.0240  | 0.413  | 0.0633  | MNO  | 0.534  | 0.029  |
| SI : | 1.4281  | 26.504 | 7.9456  | SI02 | 56.699 | 0.164  |
| MG : | 2.8996  | 19.090 | 6.6116  | MGO  | 31.653 | 0.152  |
| O    |         | 45.602 | 24.0000 |      |        |        |

Fs 16.7  
Wo 1.1

TOTAL : 100.953 100.953  
ITERATION : 0

POINT # : 86

Label: CEDAR #3 TMM USNM  
X=11685, Y= 5922, Z= 2820.  
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.    | 6585.37    | 64.61         | 0.93724     | 0.13069 | 0.3   |      |
| FE   | 48089.    | 802.25     | 8.00          | 1.46993     | 0.11205 | 1.0   |      |
| CA   | 38369.    | 20.63      | 16.48         | 0.00307     | 0.00019 | 28.0  |      |
| MG   | 38499.    | 7778.59    | 128.84        | 3.88710     | 0.17127 | 0.5   |      |
| MN   | 52197.    | 25.50      | 6.01          | 0.02161     | 0.00301 | 5.9   |      |

| ELEMENT | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|---------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :    | 0.0031      | 0.021         | 0.0049                | CAO      | 0.030         | 0.008         |
| FE :    | 1.4699      | 13.560        | 2.2120                | FEO      | 17.445        | 0.179         |
| MN :    | 0.0216      | 0.367         | 0.0608                | MNO      | 0.474         | 0.028         |
| SI :    | 0.9372      | 18.307        | 5.9382                | SI02     | 39.164        | 0.125         |
| MG :    | 3.8871      | 26.276        | 9.8459                | MGO      | 43.567        | 0.201         |
| O       |             | 42.149        | 24.0000               |          |               |               |

Fa 18.3

TOTAL : 100.680 100.680  
ITERATION : 4

POINT # : 87

Label: CEDAR #3 TMM USNM  
X=12768, Y= 6778, Z= 2814.  
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.    | 6619.42    | 62.01         | 0.94254     | 0.13142 | 0.3   |      |
| FE   | 48089.    | 813.15     | 9.20          | 1.48793     | 0.11342 | 1.0   |      |
| CA   | 38369.    | 18.27      | 14.82         | 0.00255     | 0.00016 | 31.9  |      |
| MG   | 38499.    | 7837.21    | 123.74        | 3.91960     | 0.17270 | 0.5   |      |
| MN   | 52197.    | 26.27      | 5.46          | 0.02307     | 0.00322 | 5.6   |      |

| ELEMENT | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|---------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :    | 0.0025      | 0.018         | 0.0040                | CAO      | 0.025         | 0.008         |
| FE :    | 1.4879      | 13.723        | 2.2227                | FEO      | 17.654        | 0.180         |
| MN :    | 0.0231      | 0.392         | 0.0645                | MNO      | 0.506         | 0.028         |
| SI :    | 0.9425      | 18.406        | 5.9282                | SI02     | 39.376        | 0.126         |
| MG :    | 3.9196      | 26.480        | 9.8523                | MGO      | 43.905        | 0.202         |
| O       |             | 42.448        | 24.0000               |          |               |               |

Fa 18.4

TOTAL : 101.465 101.465  
ITERATION : 0

POINT # : 88

Label: CEDAR #3 TMM USNM

X=12715, Y= 6575, Z= 2814.

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.    | 6624.35    | 61.80         | 0.94312     | 0.13151 | 0.3   |      |
| FE   | 48089.    | 802.65     | 9.30          | 1.46807     | 0.11191 | 1.0   |      |
| CA   | 38369.    | 18.43      | 14.92         | 0.00260     | 0.00016 | 30.8  |      |
| MG   | 38499.    | 7853.82    | 128.94        | 3.92475     | 0.17293 | 0.5   |      |
| MN   | 52197.    | 26.27      | 4.94          | 0.02364     | 0.00329 | 5.3   |      |

| 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 :        | 1.4681      | 13.543        | 2.1945                | FEO      | 17.423        | 0.179         |
| MN :        | 0.0236      | 0.401         | 0.0661                | MNO      | 0.518         | 0.028         |
| SI :        | 0.9431      | 18.417        | 5.9338                | SI02     | 39.399        | 0.126         |
| MG :        | 3.9248      | 26.512        | 9.8678                | MGO      | 43.958        | 0.203         |
| O           |             | 42.433        | 24.0000               |          |               |               |
| TOTAL :     |             | 101.325       |                       |          | 101.325       |               |
| ITERATION : | 0           |               |                       |          |               |               |

Fe 18.2

POINT # : 89

Label: CEDAR #3 TMM USNM  
X=12611, Y= 5224, Z= 2814.

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.    | 6549.11    | 65.91         | 0.93191     | 0.12994 | 0.3   |      |
| FE   | 48089.    | 836.26     | 7.30          | 1.53428     | 0.11696 | 1.0   |      |
| CA   | 38369.    | 18.90      | 15.61         | 0.00243     | 0.00015 | 33.5  |      |
| MG   | 38499.    | 7652.66    | 120.63        | 3.82754     | 0.16864 | 0.5   |      |
| MN   | 52197.    | 25.20      | 5.35          | 0.02201     | 0.00307 | 5.6   |      |

| ELEMENT     | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|-------------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :        | 0.0024      | 0.017         | 0.0039                | CAO      | 0.024         | 0.008         |
| FE :        | 1.5343      | 14.140        | 2.3173                | FEO      | 18.191        | 0.184         |
| MN :        | 0.0220      | 0.374         | 0.0622                | MNO      | 0.482         | 0.027         |
| SI :        | 0.9319      | 18.207        | 5.9330                | SI02     | 38.951        | 0.125         |
| MG :        | 3.8275      | 25.902        | 9.7505                | MGO      | 42.947        | 0.199         |
| O           |             | 41.955        | 24.0000               |          |               |               |
| TOTAL :     |             | 100.595       |                       |          | 100.595       |               |
| ITERATION : | 0           |               |                       |          |               |               |

Fe 19.2

POINT # : 90

Label: CEDAR #3 TMM USNM  
X=12722, Y= 4823, Z= 2814.

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.    | 6673.12    | 68.61         | 0.94921     | 0.13235 | 0.3   |      |
| FE   | 48089.    | 811.55     | 6.80          | 1.48925     | 0.11352 | 1.0   |      |
| CA   | 38369.    | 18.83      | 17.59         | 0.00092     | 0.00006 | 89.6  |      |
| MG   | 38499.    | 7885.88    | 120.23        | 3.94570     | 0.17385 | 0.5   |      |
| MN   | 52197.    | 25.80      | 4.55          | 0.02356     | 0.00328 | 5.3   |      |



| ELEMENT | I,X/I,STD. | WT. %<br>CONCEN. | NORMALIZED<br>ATOM. CON. | COMPOUND | WT. %<br>CONCEN. | 1 SIGMA<br>ERROR |
|---------|------------|------------------|--------------------------|----------|------------------|------------------|
| CA :    | 0.0009     | 0.006            | 0.0014                   | CAO      | 0.009            | 0.008            |
| FE :    | 1.4893     | 13.734           | 2.2116                   | FEO      | 17.649           | 0.180            |
| MN :    | 0.0236     | 0.400            | 0.0655                   | MNO      | 0.516            | 0.028            |
| SI :    | 0.9492     | 18.531           | 5.9333                   | SI02     | 39.643           | 0.126            |
| MG :    | 3.9457     | 26.643           | 9.8549                   | MGO      | 44.176           | 0.204            |
| O       |            | 42.699           | 24.0000                  |          |                  |                  |

Fe<sub>18.3</sub>

TOTAL : 102.013 102.013  
ITERATION : 0

POINT # : 91

Label: CEDAR #3 TMM USNM  
X=12984, Y= 3537, Z= 2818.

30 30 30 30 30

| ELT. | PEAK<br>POS. | PEAK<br>(C/S) | BACKGR.<br>(C/S) | I,X./I,STD. | K.RATIO | STG % | BEAM |
|------|--------------|---------------|------------------|-------------|---------|-------|------|
|      |              |               |                  |             |         |       | 30.3 |
| FE   | 48089.       | 793.49        | 8.40             | 1.45315     | 0.11077 | 1.0   |      |
| SI   | 27745.       | 6631.02       | 62.21            | 0.94427     | 0.13166 | 0.3   |      |
| CA   | 38369.       | 18.53         | 15.46            | 0.00227     | 0.00014 | 35.8  |      |
| MG   | 38499.       | 7875.25       | 122.94           | 3.93969     | 0.17358 | 0.5   |      |
| MN   | 52197.       | 26.47         | 5.95             | 0.02275     | 0.00317 | 5.6   |      |

| ELEMENT | I,X/I,STD. | WT. %<br>CONCEN. | NORMALIZED<br>ATOM. CON. | COMPOUND | WT. %<br>CONCEN. | 1 SIGMA<br>ERROR |
|---------|------------|------------------|--------------------------|----------|------------------|------------------|
| CA :    | 0.0023     | 0.016            | 0.0036                   | CAO      | 0.022            | 0.008            |
| FE :    | 1.4532     | 13.409           | 2.1705                   | FEO      | 17.250           | 0.177            |
| MN :    | 0.0228     | 0.386            | 0.0636                   | MNO      | 0.499            | 0.028            |
| SI :    | 0.9443     | 18.438           | 5.9348                   | SI02     | 39.445           | 0.126            |
| MG :    | 3.9397     | 26.605           | 9.8928                   | MGO      | 44.114           | 0.203            |
| O       |            | 42.475           | 24.0000                  |          |                  |                  |

Fe<sub>18.0</sub>

TOTAL : 101.330 101.330  
ITERATION : 0

POINT # : 92

Label: CEDAR #3 TMM USNM  
X=13827, Y= 5156, Z= 2818.

30 30 30 30 30

| ELT. | PEAK<br>POS. | PEAK<br>(C/S) | BACKGR.<br>(C/S) | I,X./I,STD. | K.RATIO | STG % | BEAM |
|------|--------------|---------------|------------------|-------------|---------|-------|------|
|      |              |               |                  |             |         |       | 30.3 |
| SI   | 27745.       | 6608.33       | 62.01            | 0.94111     | 0.13123 | 0.3   |      |
| FE   | 48089.       | 817.20        | 5.80             | 1.50198     | 0.11449 | 1.0   |      |
| CA   | 38369.       | 18.37         | 16.30            | 0.00152     | 0.00010 | 52.8  |      |
| MG   | 38499.       | 7816.31       | 114.63           | 3.91430     | 0.17247 | 0.5   |      |
| MN   | 52197.       | 25.93         | 6.73             | 0.02130     | 0.00297 | 6.0   |      |

| ELEMENT | I,X/I,STD. | WT. %<br>CONCEN. | NORMALIZED<br>ATOM. CON. | COMPOUND | WT. %<br>CONCEN. | 1 SIGMA<br>ERROR |
|---------|------------|------------------|--------------------------|----------|------------------|------------------|
| CA :    | 0.0015     | 0.011            | 0.0024                   | CAO      | 0.015            | 0.008            |
| FE :    | 1.5020     | 13.849           | 2.2447                   | FEO      | 17.817           | 0.181            |
| MN :    | 0.0213     | 0.362            | 0.0596                   | MNO      | 0.467            | 0.028            |
| SI :    | 0.9411     | 18.380           | 5.9235                   | SI02     | 39.319           | 0.125            |
| MG :    | 3.9143     | 26.446           | 9.8464                   | MGO      | 43.850           | 0.202            |
| O       |            | 42.420           | 24.0000                  |          |                  |                  |

Fe<sub>18.3</sub>

TOTAL : 101.468 101.468  
ITERATION : 0

POINT # : 93

Label: CEDAR #3 TMM USNM  
X=12001, Y= 7838, Z= 2805.

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.    | 10038.89   | 78.51         | 1.43196     | 0.19967 | 0.3   |      |
| FE   | 48089.    | 518.24     | 7.10          | 0.94619     | 0.07213 | 1.1   |      |
| CA   | 38369.    | 79.88      | 14.98         | 0.04793     | 0.00302 | 3.0   |      |
| MG   | 38499.    | 5858.24    | 96.02         | 2.92866     | 0.12904 | 0.5   |      |
| MN   | 52197.    | 28.53      | 5.50          | 0.02554     | 0.00356 | 5.2   |      |

| ELEMENT     | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|-------------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :        | 0.0479      | 0.339         | 0.0711                | CAO      | 0.475         | 0.014         |
| FE :        | 0.9462      | 8.809         | 1.3241                | FEO      | 11.333        | 0.129         |
| MN :        | 0.0255      | 0.439         | 0.0671                | MNO      | 0.567         | 0.029         |
| SI :        | 1.4320      | 26.575        | 7.9430                | SI02     | 56.852        | 0.164         |
| MG :        | 2.9287      | 19.264        | 6.6516                | MGO      | 31.941        | 0.153         |
| O           |             | 45.741        | 24.0000               |          |               |               |
| TOTAL :     |             | 101.168       |                       |          | 101.168       |               |
| ITERATION : | 4           |               |                       |          |               |               |

Fs 16.5  
Wo 0.9

POINT # : 94

Label: CEDAR #3 TMM USNM  
X=13052, Y= 7078, Z= 2814.

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.    | 6606.11    | 62.91         | 0.94053     | 0.13114 | 0.3   |      |
| FE   | 48089.    | 809.54     | 7.30          | 1.48481     | 0.11319 | 1.0   |      |
| CA   | 38369.    | 21.30      | 16.02         | 0.00390     | 0.00025 | 22.0  |      |
| MG   | 38499.    | 7782.92    | 120.04        | 3.89402     | 0.17157 | 0.5   |      |
| MN   | 52197.    | 25.00      | 6.27          | 0.02077     | 0.00290 | 6.0   |      |

| ELEMENT     | I.X./I.STD. | WT. % CONCEN. | NORMALIZED ATOM. CON. | COMPOUND | WT. % CONCEN. | 1 SIGMA ERROR |
|-------------|-------------|---------------|-----------------------|----------|---------------|---------------|
| CA :        | 0.0039      | 0.027         | 0.0062                | CAO      | 0.038         | 0.008         |
| FE :        | 1.4848      | 13.692        | 2.2261                | FEO      | 17.615        | 0.180         |
| MN :        | 0.0208      | 0.353         | 0.0583                | MNO      | 0.455         | 0.027         |
| SI :        | 0.9403      | 18.373        | 5.9395                | SI02     | 39.304        | 0.125         |
| MG :        | 3.8940      | 26.322        | 9.8304                | MGO      | 43.644        | 0.201         |
| O           |             | 42.290        | 24.0000               |          |               |               |
| TOTAL :     |             | 101.056       |                       |          | 101.056       |               |
| ITERATION : | 4           |               |                       |          |               |               |

Fa 18.5

POINT # : 95

Label: CEDAR #3 TMM USNM  
X=13157, Y= 7324, Z= 2806.

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.    | 6542.71    | 65.51         | 0.93099     | 0.12981 | 0.3   |      |
| FE   | 48089.    | 875.46     | 7.70          | 1.60599     | 0.12242 | 1.0   |      |
| CA   | 38369.    | 21.50      | 16.77         | 0.00350     | 0.00022 | 24.4  |      |



MG 58497. 7480.43 117.23 3.74050 0.16981 0.5  
 MN 52197. 24.57 4.97 0.02173 0.00303 5.6

| ELEMENT     | I, X/I, STD. | WT. %<br>CONCEN. | NORMALIZED<br>ATOM. CON. | COMPOUND | WT. %<br>CONCEN. | 1 SIGMA<br>ERROR |
|-------------|--------------|------------------|--------------------------|----------|------------------|------------------|
| CA :        | 0.0035       | 0.024            | 0.0056                   | CAO      | 0.034            | 0.008            |
| FE :        | 1.6060       | 14.783           | 2.4335                   | FEO      | 19.018           | 0.191            |
| MN :        | 0.0217       | 0.369            | 0.0617                   | MNO      | 0.476            | 0.027            |
| SI :        | 0.9310       | 18.194           | 5.9555                   | SI02     | 38.923           | 0.125            |
| MG :        | 3.7405       | 25.356           | 9.5882                   | MG0      | 42.042           | 0.195            |
| O           |              | 41.767           | 24.0000                  |          |                  |                  |
| TOTAL :     |              | 100.493          |                          |          | 100.493          |                  |
| ITERATION : | 0            |                  |                          |          |                  |                  |

*Fe<sub>20.2</sub>*