NIST Reference Standard on the MRD. Primary peak position and relative intensity match against the NIST reference data, and the lattice cell refinement for the a and c cells also match. The instrument is operating correctly.

## Main Graphics



## Peak List:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pos. [°2θ] | Height [cts] | FWHM Left [°2θ] | d-spacing [Å] | Rel. Int. [%] |
| 25.5196 | 862.21 | 0.2885 | 3.48765 | 63.99 |
| 35.0974 | 1347.48 | 0.2885 | 2.55475 | 100.00 |
| 37.7256 | 630.28 | 0.2885 | 2.38259 | 46.77 |
| 41.6272 | 5.88 | 0.2885 | 2.16785 | 0.44 |
| 43.3051 | 1343.33 | 0.2885 | 2.08766 | 99.69 |
| 46.1312 | 20.45 | 0.2885 | 1.96613 | 1.52 |
| 52.5075 | 681.24 | 0.2885 | 1.74139 | 50.56 |
| 57.4583 | 1346.57 | 0.2885 | 1.60255 | 99.93 |
| 59.7016 | 34.59 | 0.2885 | 1.54758 | 2.57 |
| 61.0918 | 44.77 | 0.2885 | 1.51566 | 3.32 |
| 61.2633 | 102.33 | 0.2885 | 1.51182 | 7.59 |
| 66.4833 | 531.47 | 0.2885 | 1.40522 | 39.44 |
| 68.1759 | 813.26 | 0.2885 | 1.37439 | 60.35 |
| 70.3839 | 17.17 | 0.2885 | 1.33659 | 1.27 |
| 74.2704 | 20.28 | 0.2885 | 1.27597 | 1.50 |
| 76.8455 | 233.80 | 0.2885 | 1.23950 | 17.35 |
| 77.2077 | 124.11 | 0.2885 | 1.23459 | 9.21 |
| 80.3932 | 10.15 | 0.2885 | 1.19350 | 0.75 |
| 80.6749 | 90.69 | 0.2885 | 1.19004 | 6.73 |
| 83.1938 | 5.31 | 0.2885 | 1.16029 | 0.39 |
| 83.1938 | 5.31 | 0.2885 | 1.16029 | 0.39 |
| 84.3348 | 73.67 | 0.2885 | 1.14748 | 5.47 |
| 85.1193 | 3.97 | 0.2885 | 1.13889 | 0.29 |
| 86.3321 | 54.32 | 0.2885 | 1.12598 | 4.03 |
| 86.4827 | 39.01 | 0.2885 | 1.12440 | 2.89 |
| 88.9790 | 108.17 | 0.2885 | 1.09920 | 8.03 |
| 90.6920 | 26.11 | 0.2885 | 1.08285 | 1.94 |
| 91.1726 | 128.23 | 0.2885 | 1.07839 | 9.52 |
| 94.8068 | 2.92 | 0.2885 | 1.04641 | 0.22 |
| 95.2368 | 257.26 | 0.2885 | 1.04282 | 19.09 |
| 98.3848 | 34.17 | 0.2885 | 1.01769 | 2.54 |
| 101.0686 | 193.28 | 0.2885 | 0.99779 | 14.34 |
| 102.8198 | 4.33 | 0.2885 | 0.98551 | 0.32 |
| 103.3133 | 34.91 | 0.2885 | 0.98214 | 2.59 |
| 104.6374 | 2.44 | 0.2885 | 0.97331 | 0.18 |
| 109.5444 | 7.21 | 0.2885 | 0.94299 | 0.54 |
| 109.8640 | 4.89 | 0.2885 | 0.94114 | 0.36 |
| 110.8335 | 2.36 | 0.2885 | 0.93562 | 0.17 |
| 110.9946 | 59.79 | 0.2885 | 0.93472 | 4.44 |
| 114.0786 | 41.41 | 0.2885 | 0.91807 | 3.07 |
| 116.1117 | 203.15 | 0.2885 | 0.90777 | 15.08 |
| 116.6153 | 70.38 | 0.2885 | 0.90530 | 5.22 |
| 117.8659 | 116.12 | 0.2885 | 0.89929 | 8.62 |
| 120.2303 | 7.17 | 0.2885 | 0.88844 | 0.53 |
| 122.0568 | 36.32 | 0.2885 | 0.88048 | 2.70 |
| 122.0568 | 36.32 | 0.2885 | 0.88048 | 2.70 |
| 124.6211 | 46.52 | 0.2885 | 0.86992 | 3.45 |
| 127.7125 | 266.66 | 0.2885 | 0.85809 | 19.79 |
| 129.9120 | 52.93 | 0.2885 | 0.85024 | 3.93 |
| 129.9120 | 52.93 | 0.2885 | 0.85024 | 3.93 |
| 131.1383 | 111.04 | 0.2885 | 0.84605 | 8.24 |
| 132.2553 | 8.03 | 0.2885 | 0.84236 | 0.60 |
| 132.6632 | 5.49 | 0.2885 | 0.84104 | 0.41 |
| 136.1242 | 230.39 | 0.2885 | 0.83043 | 17.10 |
| 136.1242 | 230.39 | 0.2885 | 0.83043 | 17.10 |
| 139.4244 | 2.95 | 0.2885 | 0.82125 | 0.22 |

## Pattern List:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Visible | Ref.Code | Score | Compound Name | Displ.[°2θ] | Scale Fac. | Chem. Formula |
| \* | 04-007-5143 | 69 | Aluminum Oxide | 0.000 | 0.649 | Al2 O3 |