|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scans** | **Step**  **(mm)** | **Area**  **(mm2 )** | **No. of spots** | **Standard Deviation of the Mean Value (STDMV %) of the elemental intensities measured from area scans** | | | | |
| **Cu-Kα** | **Zn-Kα** | **Sn-Kα** | **Sn-Lα** | **Pb-Lβ** |
| 1 | 0.02 | 0.14 x 0.14 | 64 | 6 | 13 | 7 | 14 | 68 |
| 2 | 0.02 | 0.14 x 0.14 | 64 | 7 | 6 | 20 | 18 | 30 |
| 3 | 0.02 | 0.24 x 0.24 | 156 | 6 | 8 | 15 | 16 | 59 |
| 4 | 0.02 | 0.32 x 0.32 | 289 | 6 | 12 | 20 | 19 | 62 |
| 5 | 0.05 | 0.5 x 0.5 | 110 | 6 | 9 | 21 | 22 | 69 |
| 6 | 0.08 | 0.8 x 0.8 | 121 | 8 | 18 | 22 | 22 | 75 |
| 7 | 0.1 | 1 x 1 | 110 | 7 | 14 | 12 | 13 | 60 |
| 8 | 0.2 | 3 x 3 | 225 | 10 | 19 | 15 | 16 | 75 |
| 9 | 0.25 | 5 x 5 | 441 | 10 | 22 | 20 | 20 | 70 |
| 10 | 1.0 | 5 x 5 | 36 | 9 | 18 | 22 | 21 | 63 |
|  | | | | **4.2** | **5** | **5** | **4** | **31** |
| Table 1*:* Results from micro-XRF area scans on standard reference bronze alloys BCR-A-691 with Cu: 78.73%, Zn: 6.02%, Sn: 7.16%, Pb: 7.9%, As: 0.194%. STDMV (%) represents the standard deviation of the mean value of the elemental intensities measured from an area scan. The highlighted values estimate the standard deviation (%) of the mean values obtained from the respective individual area scans. | | | | | | | | |