

ABSTRACT

Considering the advancement of image measurement technology, this research focuses on comparing the results of spatial resolution values obtained from the IndoQCT software modulation method with the visual observation method. Although the modulation method has been proven effective, the approach is still mathematical. This study implements the method in IndoQCT software for automatic spatial resolution measurement. Until now, there has been no research discussing the application of such an atomized method. This research is important to verify that the modularized method can be implemented in software and is in line with current technological advances. The methods used are divided into two categories, namely visual observation methods and modulation methods that are automated using IndoQCT software. The results of this study show that automated measurements using the modulation method of the IndoQCT software provide more stable results compared to the manual method. Subjectivity in the manual method leads to differences in values, especially when using specific WW and WL regulations. Therefore, this study emphasizes the importance of skepticism towards visual observation methods and recommends automated measurements as a more reliable approach in spatial resolution. The use of IndoQCT software is highly recommended for automated measurement of spatial resolution.

Kata Kunci : modulation, spatial resolution, software, IndoQCT