In order to determine the success of Focused Ultrasound Treatment, an expert physician is required to analyse hand-drawn spiral and lines. This investigation focuses on the development and implementation of two methods to determine whether the tremor reduction after treatment in a patient’s treated and untreated hand can be quantitatively determined using image processing and computational analysis. This would remove the need for the expert physician and provide a more accurate and less biased result. This paper focuses on the image pre-processing, as well as method 2A and 2B, which use average area and peak-trough distances to determine two severity ratings. The overall results show that these methods reliably indicate whether the treatment is successful overall and per patient by using the tremor severity ratings to determine whether the tremor decreases in either hand.