THE CAPACITY OF BANANA TREES TO ABSORB RADIO FREQUENCY WAVES

Thesis is represented in partial fulfillment for the award of the Bachelor of Electrical Engineering (Hons)
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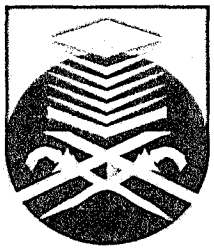

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ABSTRACT

This paper presents the case study about the capability of banana tree to absorb radio frequency (RF) waves. The results of banana tree were classified into three particular types of medium propagations such as fruits, leaves and trunks. This research was conducted using the spectrum analyzer and a simple set-up on the Yagi-Uda antenna. The distances and height of banana tree from the transmitting antenna are taking into consideration in this data collection techniques. Comprehensive results were performed to find the relationship between the *line-of-sight (LOS)*, antenna (Yagi-Uda), power radiation and also the distance between the transmitter and the receiver that will affect the signal strength reception. From the results obtained, it shows that fruits have more capability to capability to absorb RF waves followed by the leaves and trunk.

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