ABSTRACT

Microstrip antenna is made of three layers of material, the conductor layer, a

dielectric substrate, and ground plane. Conductors are generally made of copper,

aluminum, or gold. Made of low dielectric constant to increase the abundance that is useful

in the field of radiation. Ground plane serves as a reflector that reflects unwanted signals.

In the last project entitled Design of Circular Microstrip Antenna On The frequency

of 3.4 to 3.5 GHz using a sponge as a dielectric material. Microstrip antenna in the last

project is to use a sponge as a dielectric because it has the advantages of lower cost and

wider bandwidth value. Thus, microstrip antennas are expected to work at 3.4 GHz - 3.5

5 dbi, with specification of the desired bandwidth can 1.5 Gain GHz with a VSWR

reach 100 MHz or greater, have unidireksional radiation pattern which can provide

performance Good for support in various applications. Design method in the last project is

calculated using the equation to find the dimensions of the antenna. The results of the

calculations is the input to the simulation process.

The results obtained in the design of the antenna above the VSWR obtained at

center frequency is 1.46, the bandwidth of the measurement results of 100 MHz. form is

obtained polaradiation unidirectional, form of elliptical polarization is obtained with AR=

17,418 dB, and the results for the antenna gain is 5,97 dBi measurement results.

Key words: sponge, bandwidth, microstrip, dielectric Antena