Increasing the use of wireless networks and mobile communication systems, the antenna unit is required to operate in multiple frequency bands. In this study, working in 2.45GHz, 3.7GHz and 5.8GHz frequency bands a antenna were designed. This antenna's frequency bandwidths respectively 110MHz, 220MHz and 390MHz is. The reflection coefficients in the around -27dB at all three frequencies were measured. The size of this antenna is 52x76x1.6mm3. This antenna is sized as a parametric frequency specified in the HFSS program was simulated. This antenna were printed on double-sided copper plate, and Antenna parameters were measured with Agilent FieldFox N9926A Network Analyser. The values were obtained with the simulation were compared with measured values and were shown as graphically.