

## ABSTRACT

Now is the security and confidentiality has become an essential in information technology. the need for communications systems that are immune to interference issues and intercepts resulted in the emergence of spread spectrum communication system in mid-1950. Spread spectrum can be interpreted as an information signal transmission technique that uses a code to spread the information signal energy in a much wider bandwidth than the information signal bandwidth. In spread spectrum there are several kinds of ways in which, such as : Direct Sequence Spread Spectrum ( DSSS), Frequency Hopping Spread Spectrum ( FHSS), Time Hopping Spread Spectrum ( THSS).

In the present study was conducted Final design and realization of sound spread spectrum receiver using FSK demodulation. The main device on the receiving system consists of frequency hopping FSK demodulator is realized with the system at a frequency of 159 MHz VCO.

Using Frequency Hopping Spread Spectrum Technique drafting this final recipient system can not be realized with a perfect cause there are filters that block has not worked perfectly because the value of the component approach that is far from the initial design. But a few blocks of which the recipient has successfully realized the block is Pre Amplifier, Mixer I, II Mixer, FSK demodulator, oscillator, the minimum system controller, the resistor ladder and LPF Active 4 KHz was caused because in the design of the block using the IC so that the system is stable on the block and run in accordance with the desired

Key Word : *Frequency Hopping Spread Spectrum, Demodulasi, Tahan jamming.*