

ABSTRACT

The development of technology in the field of communication is now very serviceable, where this communication service is very important in any field, from health, research, security, etc. People really need technology to communicate with each other so there is no need to come all the way to chat. This data transmission is not only done on land, but it is also important that shipping can be done under the sea for research and everything.

Underwater communication technology is currently still using sound waves or what we know as SONAR (Sound Navigation and Ranging) where this technology is often used by submarines in communication. In this final project, we use radio waves using FM modulation techniques to see the attenuation of sea water.

The results obtained from testing and measuring attenuation on this tool, using a frequency of 833kHz with a distance of 10cm-50cm with a depth of 15cm, 20cm, and 25cm get a percentage value of 74.42% -84% attenuation at a depth of 15cm, 77.73% -87 , 18% at 20cm depth, and 81.5% -94.1% at 25cm depth. These results are obtained through measurements of the distance and depth of the tool placed in the sea air pool.

Keywords: *Radio Waves, Frequency Modulation, attenuation.*