

Abstract

Currently, the television broadcasting is rapidly growing, almost every area have local tv stations including Telkom Institute of Technology. The modulation process is very important in a broadcasting technology. Modulation serves to put the broadcast on a channel that is available. The device which use to modulate the signal called a modulator.

These modulators which has a function to modulate the signal with a UHF frequency (460-880) MHz testing was carried out using a camcorder as a source of information and connected to the modulator using an RCA port. Modulated signal from the camcorder will use UHF frequencies by the method of modulation VSB (vestigial side band) and will be transmitted using an antenna.

This modulator was measured in quantity and quality. In terms of quantity measurement results which obtained from the input level camcorders is 1.375 Vcvbs, output level of modulator 55 dB μ V, and modulation index 0.2857. In quality measurement, the modulator will connect to transmitter and broadcast to the receiver which using antenna television. The result has not been successful because of the power produced is too small and the modulator output is not yet stable.

Keywords: video modulator, vestigial sideband, video signals, camcorder, input level, output level