ABSTRACT

Transmitter measurement parameter is one way to increase performance of transmitter. Transmitter frequency which is had by TRANS 7 of Jakarta is 697.25 MHz and 49 UHF channel. The development of television industry in Indonesia has a rapid progress with high competitive grade. Furthermore, better performance at transmitter side is needed prior to be able to compete with another television station. According to that condition, Writer is interested in measuring of television transmitter parameter with good methods and analysis measurement results.

In this final project, has been conducted transmitter parameter measurement at TRANS 7 Jakarta. The measured parameter consist of transmitter power amplifier is MC 5156 NEC transistor which is used by TRANS 7 Jakarta and parameter related to video and audio performance.

The physical parameter is divided in to transmitter power, transmitter frequency response, output power of TR PA, Gain and temperature analysis of TR PA. Video parameter divided in to Differential Gain, Differential Phase, Luminance Non Linearity, ICPM, and K 2T. Then, audio parameters divided in FM and AM noise, distortion, And Intermodulation Audio Frequency.

There is a hope that this final project could be made as direction in measuring parameter of television transmitter in order to it's performance.