ABSTRACT

Digital Video Broadcasting (DVB) is one of broadcasting technique which use more bandwidth needed than in analog broadcasting. DVB system with Audio Video Interleave (AVI) as the contents of video coding, audio coding and data coding can be use for create many kind of input format that are use multimedia needed likes: text, picture, graphic and many type of moving picture. One of the superiority of DVB technology is DVB can transmit many data in high speed in point to multipoint in safe way with there is no error transmit, include repetition probability of same data transmit in the same and different time interval.

In this finall project has implemented a design and analyze about the productivity of DVB-S by using MATLAB. The analyze is about observing the impact value of Eb/No to value of BER, then compare it result with the theoretical count-based result. After that, the analyze compare between video input and video output from DVB-S modeling. The quality of video output frame would reduce, it causes by the change of bits in frame video output which is impacted by Reed Solomon encoding and signal level representation in AWGN channel.

***Key words** : DVB, satellite, AWGN.*