ABSTRACT

The occurrence of radio broadcasting disturbance (broadcasting) is

generally caused by a broadcast radio transmitter that occupies radio frequency

channels that are not in accordance with the master plan established by the

minister of transportation decision Number Km 15 of 2003. If there is a radio

broadcast broadcast that has been aired and the status does not have permission

(Illegal) use a frequency channel whose transmitting location in the licensed

broadcast radio broadcast service area, the radio has the potential to interfere with

licensed radio. Among them is Adjacent Channel Interference (ACI).

In order to reduce the incidence of Interference in the same service area

occurs on the radio broadcast of LPK Dakwah FM 107.7 MHz (channel 202) to

the radio broadcasting LPS PR FM 107.5 MHz (channel 200) causing the

occurrence of Adjacent Channel 2, conducted analysis, simulation and evaluation

of the occurrence of disturbance for It is recommended that the Adjacent Channel

be incurred in the same service area based on field measurements that will be

compared with the Spectral and Spatial Theory measurements.

Parameters measured are Link Budget and SINR calculations, VMware

and MapInfo simulations aim to see the countour service area. Based on the

calculation recommended the establishment of LPK in the same service area with

minimum 40 dB SINR and at a distance of 18 km from the LPS transmitter center.

Keywords: Adjacent Channel Interference (ACI), Link budget, SINR