

## **ABSTRACT**

*The increase of the number of subscribers of a mobile network operator not only affects to the operator income, but can also result in a decrease in network performance. Decrease in network performance in South of Bandung city precisely in the Soreang region. To avoid a decreasing quality of the network it must be done with the network optimization by using drive test method. This method is a way to get 3G network conditions data. Software used is Nemo Analyze 5.20 that serve for data retrieval and data processing to measure parameters such as Ec/No, RSCP (Received Signal Code Power). Each parameter has a standard value determined by each operator.*

*Drive test method is a way to get data from the 3G network conditions on the ground, so from these data can be optimized 3G network performance. In this final project, the optimization of 3G networks by performing physical antenna tuning as tilting.*

*The results of the analysis of drive test before this shows that the area of the overshooting bad spot on the site should MARGAHURIP area serving bad spot on a site closer ie DSKIANGROKE site or site BANJARAN. The optimization process is done by mechanical tilting at the site MARGAHURIP and site DSKIANGROKE. Mechanical tilting MARGAHURIP site before 0 and after optimization by means of down tilting to 5 . Site DSKIANGROKE mekanikal tilting before 3 after optimization becomes 2 by way of Up tilting. Drive test results show that area after the bad spot is no longer overshooting to MARGAHURIP site to site but more dominant BANJARAN closer distance.*

*Keywords: 3G, RSCP, Ec/No, Overshooting, Network optimizations.*