ABSTRACT

UAV (unmanned aerial vehicle) is one of the emerging technologies today. UAVs typically move to follow the path that has been set by the program or be controlled remotely. Sometimes these tools can be disrupted by elektromagnetic waves emitted by other devices. One of the effects caused by the electromagnetic wave interference can make the UAV lost control. Testing EMC (Electromagnetic Compatibility) on UAV is essential in order to cope with the disorder.

This study uses UAV quadcopter. In this study quadcopter tested by passing through an area that has electromagnetic field like SUTT (Saluran Udara Tegangan Tinggi). In this study also tested the effect of CDMA (Code Division Multiple Access) and GSM (Global System for Mobile Communication). Standardized testing EMC (Electromagnetic Compatibility) in this study conducted in B4T (*Balai Besar Barang dan Bahan Teknik*). Tests were conducted in B4T refers to the standard EN 301 489.

In this research UAV quadcopter unaffected by interference of electromagnetic fields emitted from other devices. On testing in B4T found that the quasi-peak value quadcopter is under quasi-peak limit which means quadcopter meet the standards EN 301 489.

Keywords: UAV, quadcopter, EMC