

## ABSTRACT

HSPA<sup>+</sup> network user on cellular communication is still relative high therefore is important to maintain the quality of the network. Interference is one of the factors that affect the network quality becomes poor. On HSPA<sup>+</sup> uplink frequency at Site U\_SUMBERSARI affected with quite high level of interference that causing interfered that subscriber can't use cellular service this matter affected to data traffic on HSPA<sup>+</sup> network of U\_SUMBERSARI site become very low.

Therefore, on this final project identification and handling of interference will be done on this final project the handling interference of U\_SUMBERSARI site required RTWP data of the affected site. The data is collected and processed with using U2000 software in order to find the solution for interference problem on affected site. The process of handling interference problem on field will be helped by balmon as the authorities.

From the process that have done on handling interference step<sup>+</sup> on U\_SUMBERSARI site RTWP value of that site before interference handling is -71dBm is back to normal with average value -100.868 dBm per hour and data traffic of HSPA<sup>+</sup> before interference handling is just less than 1000Mbit is increased with average 4382.127 Mbit per hour. With this result then the handling interference problem of HSPA<sup>+</sup> at U\_SUMBERSARI site is successfully done.

**Keyword:** HSPA+, Interference, RTWP (*Receive Total Wideband Power*)