RF Exposure / MPE Calculation

No. : 10589154H

Applicant : KYOCERA Document Solutions Inc.
Type of Equipment : Communication Module
Model No. : LBWA1ZZ1CA
FCC ID : E52LBWA1ZZ1CA

KYOCERA Document Solutions Inc. declares that Model : LBWA1ZZ1CA
complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "LBWA1ZZ1CA" as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.
This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 263.03 mW (Maximum average output power)
G = 1.55 Numerical Antenna gain; equal to 1.90 dBi
r = 20.0 cm

For: LBWA1ZZ1CA **S = 0.08105 mW/cm^2**

Even taking into account the tolerance, this device can be satisfied with the limits.

UL Japan, Inc.
Ise EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8999
Facsimile : +81 596 24 8124