

RF Exposure Statement

No. : 23FE0027-YK-1

Applicant : FUJITSU MEDIA DEVICES LIMITED
Type of Equipment : Bluetooth CF Card
Model No. : MBH2BT01
FCC ID : QZIMBH2BT01

RF Exposure Statement:

FUJITSU MEDIA DEVICES LIMITED declares that Model : MBH2BT01 complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(2).

MBH2BT01 has 2.153mW of conducted Peak output power and 0.575mW of EIRP.(Antenna gain : -5.73dBi)

According to RF output power of this module transmitter, values for both Conducted peak output power and EIRP are below 5mW. This kind of equipment hardly ever go over SAR value limited of 1.6W/Kg for public resident which is regulated by "OET Bulletin65, Supplement C".

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "MBH2BT01" as calculated from FCC OET 65 Appendix B, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0m W/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2) \quad \text{or} \quad r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = 1.0 mW/cm² for 2400 MHz

P = 2.153mW (Maximum Conducted Power)

G = 0.267 (Numerical Antenna gain; equal to -5.73 dBi)

r = Minimum safe distance from antenna (cm)

For: MBH2BT01 r = 0.21cm

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