



Issue Date : July 15, 2002

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Declaration of compliance

Exposure of Humans to RF Fields Requirements

Applicant : Toshiba Corporation
Type of Equipment : SDIO Card Bluetooth™
Model No. : SD-BT2
FCC ID : CJ6MSDB01

Regulations Applied : CFR 47 FCC 15.247(b)(5)
References Documents : CFR 47 FCC 1.1307(b), 1.1310, 2.1093 and
OET65 Supplement C

RF Exposure Calculations :

The following minimum separation distance between the EUT's antenna and the human body was calculated in accordance with FCC OET65 Appendix B Table(B) "Limit for General Population / Uncontrolled Exposure".

The maximum permissible exposure level is defined with 1mW/cm².

The minimum separation distance where the exposure level reaches the permitted level can be calculated as bellow:

$$\text{Where:} \quad S = P * G / 4\pi R^2 \quad \therefore R = \sqrt{P * G / 4\pi S}$$

R = minimum separation distance in cm

P = 0.713 mW (Max. conducted output power at antenna terminal)

G = 1.31(numeric gain) = 1.17 dBi(Max. antenna Gain)

S = 1.0 mW/cm² for 2.4 GHz (Max. permissible exposure level)

Then minimum separation distance is 0.273 cm.

Summary:

The EUT complies with the RF exposure requirement of the above regulation.

Additional information:

The following warning statement is placed in user manual:

"This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

End user can not modify this transmitter device.

Any unauthorized modification made on the device could avoid the user's authority to operate this device."

Masaaki Takahashi
Senior Manager
JQA EMC Engineering Dept.