

RF Exposure / MPE Calculation

No. : 27HE0375-HO

Applicant : **D&M Holdings Inc., Denon Brand Company**
Type of Equipment : **WLAN Mini PCI card Module**
Model No. : **MP-G-BR-05 Ext.2**
FCC ID : **BV2-MPGBR052**

D&M Holdings Inc., Denon Brand Company declares that Model : MP-G-BR-05 Ext.2 complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(for portable)/2.1091 (for mobile).

The "MP-G-BR-05 Ext.2" has 284.45 mW of conducted Peak Output power and 450.82 mW of EIRP. This kind of equipment is below 60/frequency[GHz] mW(TCB Exclusion List) so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "MP-G-BR-05 Ext.2" as calculated from FCC OET Bulletin 65 Appendix A, 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 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

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

Where

P = 284.45 mW (Maximum peak output power)
G = 1.58 Numerical Antenna gain; equal 2.00 dBi
r = 20.0 cm

For: MP-G-BR-05 Ext.2

$$S = 0.08969 \text{ mW/cm}^2$$

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