



5473A Clouds Rest Road : Mariposa, CA 95338 : Phone 209-966-5420 : Fax 209-742-6133

FCC 1.1310(b), Maximum Permissible Exposure Calculations **RSS133 Subclause 8 Exposure of Humans to RF Field**

Date of Report: April 30th, 2005

Calculations prepared for:

Belkin Corporation
 501 W. Walnut Street
 Compton, CA 90220

Calculations prepared by:

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Model Number: Belkin TuneStage
 F8Z901-TX,
 F8Z901-RX

FCC Identification: NA

Fundamental Operating Frequency:

2402-2480 MHz

Maximum Rated Output Power:

0.00100W

Measured Output Power:

0.00111W

MPE Limit in accordance with 1.1310(b): Limits for general population/uncontrolled exposure

MPE Limit for 2402-2480 MHz = 1 mW/cm² (10 W/m²) 1

Power Output (Watts)	Power Density Limit (mW/cm ²)	Minimum Distance (Meters)
0.00111	1	0.003

$$\text{Power Density (W/m}^2\text{)} = \frac{30 \times P_t \times G}{d^2 \times Z_0}$$

P_t = Power Delivered to the Antenna
 d = Distance in meters

G = Antenna Gain
 Z_0 = Impedance of Free Space

The typical antennas to be used with the EUT which under normal operation has an antenna separation of at least 0.1 m from human body. As can be seen from the MPE result, this device passes the limit specified in 1.1310 at a distance of 0.003 meter.

Calculation:

$$d = \sqrt{\frac{30 \times 0.00111 \times 1}{10 \times 377}}$$

= 0.003 meter.