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

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Calculations prepared for:

Belkin Corporation  
 501 W. Walnut Street  
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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/cm<sup>2</sup> (10 W/m<sup>2</sup>) 1

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

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

$P_t$  = 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 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.