

**FCC Part 15 Subpart C**

**Frequency Spread Spectrum Transmitter**

**Class 2 Permissive Change Test Report**

**Appendix A**

**RF Exposure Information**

**Manufacturer: Proxim Corporation**

**Model: B11FNF**

**Variants:**

- ◇ 153180-0001 Omni
- ◇ 153325-0001 Omni
- ◇ 155845-0411 Omni
- ◇ 155846-0001 Omni
- ◇ 480424-0411 Omni
- ◇ 460602-3020 Directional
- ◇ 480429-2703 Directional
- ◇ 480429-2712 Directional
- ◇ 480429-3508 Directional

**FCC ID: HZB-B11FNF**  
**Project No: 03-014**

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### **General Information:**

Applicant: Proxim Corporation  
FCC ID: HZB-B11FNF  
Device Category: Mobile Device  
Environment: General Population/Uncontrolled Exposure

### **Technical Information:**

Model Numbers: **155846-0001 & 155845-0001 & 480424-0411 & 153180-0001  
153325-0001 & 460602-3020 & 480429-2703 & 480429-2712  
480429-3508**

Antenna Types: Omni (4), Directional (5) **(See below)**  
Antenna Gains: 0dB (2), 3dB (1), 6dB (1), 7.5dB (1), 9dB (1), 12dB (1), 15dB (2)  
Transmitter Conducted Power: 15.29dBm or 35mW  
Maximum System EIRP: 30.29dBm or 1069.05mW

Operating Configuration: Mobile Device  
Exposure Conditions: Greater than 20cm from the population

### **MPE Calculation**

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d (mW/cm^2) = \frac{E^2}{3770}$$

### **MPE Distance**

<b>MPE Calculator for 2400MHz Mobile Equipment</b>						
<b>Limits for General Population/Uncontrolled Exposure*</b>						
<b>Transmit Freq. (MHz)</b>	<b>Radio Power (dBm)</b>	<b>Antenna Gain (dBi)</b>	<b>System EIRP (mW)</b>	<b>MPE Limit (mW/cm2)</b>	<b>MPE Distance (cm)</b>	<b>Antenna Type</b>
2400	15.29	0	33.81	1.00	1.64	Omni
2400	15.29	0	33.81	1.00	1.64	Omni
2400	15.29	3	67.45	1.00	2.32	Omni
2400	15.29	6	134.59	1.00	3.27	Omni
2400	15.29	9	268.53	1.00	4.62	Omni
2400	15.29	12	535.8	1.00	6.53	Directional
2400	15.29	15	1069.45	1.00	9.22	Directional
2400	15.29	15	1069.05	1.00	9.22	Directional
2400	15.29	7.5	190.11	1.00	3.89	Directional

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**SAR test justification:**

These antennas are intended to be mounted in a mobile device. The antennas will be installed such that a minimum distance of 20cm is maintained from them to the any part of the rest of the user's body. Due to the fact that the antennas will always be 20cm from the user's body, a SAR evaluation was not necessary.

**Conclusion**

This device complies with the MPE requirements by providing adequate separation between the device and any body parts.