

MPE Statement
FCC Radio Frequency Exposure Limits 1.1310
Health Canada Safety Code 6
Industry Canada RSS 102

$$\text{GenralPopuatoinLimit} = f / 1500 \text{ mW} / \text{cm}^2 = 824 / 1500 = 0.549 \text{ mW} / \text{cm}^2$$

$$\text{Therefore } \frac{GP}{4\pi R^2} \leq \text{Limit}$$

$$R \geq \sqrt{\frac{GP}{4\pi L}} = \sqrt{\frac{2 \times 3000}{4\pi \times 0.549}} = 29.5 \text{ cm} \approx 30 \text{ cm}$$

$$\text{Measured} = 0.552 \text{ mW} / \text{cm}^2 @ 30 \text{ cm}$$

$$\text{CalculatedPowerDensity} = \frac{2 \times 3000}{4\pi \times 30^2} = 0.531 \text{ mW} / \text{cm}^2$$

The measured power density is within 0.2 dB of the calculated power density at 30 cm. The first page of the installation manual contains an RF exposure warning statement. Page ii cautions against the use of any antenna except that which is provided by the manufacturer.

Measurements were made using a Narda Microwave Radiation Monitor