



Date of Report: October 11, 2006

Maximum Permissible Exposure Statement

Calculations prepared for:

Wilson Electronics
3301 East Deseret Drive
St. George, UT 84790

Calculations prepared by:

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4056 Sierra Pines Dr.
Mariposa, CA 95338

FCC ID Number:: PWO819DA
Model Number: 811210

Fundamental Operating Frequency: 1850-1910 MHz

Maximum Rated Output Power: 2.00 Watts EIRP
Measured Output Power: 0.94 Watts EIRP

Maximum Antenna Gain: 6.12 dBi

Power Output and Operating Frequency Information used for these calculations were from:
CKC Laboratories, Test Reports # FC04-021A & FC04-022B

Device and Antenna Operating Configuration:

Equipment operating at maximum output power. This report covers all whip antennas of gain equivalent to or lower than 6.12 dBi in the frequency range of 1850-1910 MHz.

Test Procedure:

This equipment is evaluated in accordance with the guidelines set forth in OET Guide 65.

Other Considerations:

Calculations include loss in cable normally attached to the antenna as defined in above referenced test report.

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MPE Calculations:

MPE Limit in accordance with 1.1310:

X Occupational / Controlled Exposure
 General Population / Uncontrolled Exposure

$$\text{MPE Limit} = 1.0 \text{ (mW/cm}^2\text{)}$$

Note: Limit is calculated based on the lowest frequency used in the operating frequency range.

$$\text{PowerDensity(mW / cm}^2\text{)} = \frac{\text{EIRP}}{4\pi d^2} \quad \text{Given: EIRP in mW and d in cm}$$

EIRP (mW)	Distance (cm)	Power Density (mW/cm ²)	Result
940.00	8.65	1.000	Pass

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Statement of Compliance:

This device demonstrates compliance under the operating conditions specified in this document. Under normal operating conditions, the antenna is designed to be installed in accordance with the manufacturer’s instructions in such a manor to maintain the minimum separation distance. The MPE calculations shown above demonstrate compliance to the provisions of 1.1310 in accordance with the guidelines of OET 65.

As can be seen from the MPE results, this device passes the limits specified in 1.1310 at a distance of 8.7cm and at a output power of 0.94 Watts EIRP under normal operating conditions.