

FCC 2.1093 MAXIMUM PERMISSIBLE EXPOSURE CALCULATIONS - HANDSET

Calculations prepared for:
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Model Number: Aero 2000
 FCC Identification: Pending

Fundamental Operating Frequency: 902-928 MHz

Measured Maximum Output Power: 0.014 Watts (11.4 dBm)
 (OATS, 916.5 MHz)

MPE limit in accordance with FCC part 1.1311, table 1

EIRP = Maximum Measured Output Power (dBm) + Antenna Gain (dBi)
 EIRP = 11.4 dBm + 1 dBi = 12.4 dBm (17 mWatt)

*Limit for Maximum permissible exposure: (B) Limit for General population/uncontrolled Exposure:
 For the frequency range of 1500-100,000 MHz , the MPE is 1 (mW/cm²)*

EIRP (mW)	Distance (cm)	Power Density (mW/cm ²)	Result
17.38	1.18	1.000	Pass

$$\text{Power Density (mW/cm}^2\text{)} = \frac{\text{EIRP}}{4 \cdot \pi \cdot d^2}$$

EIRP is given in mW
 Distance (d) is given in centimeters

Under normal operating conditions, the antenna is designed to maintain a separation distance of 3 cm from all persons. As shown in the MPE results above, this device passes the limits specified in 1.1311 at a distance of 3 cm and at the rated output power of 0.200 Watts. For the measured output power at the antenna terminal of 0.014 Watts, the EUT satisfies the requirement in the 1500 to 100000 MHz frequency range.