



# H.B. Compliance Solutions

## Maximum Permissible Exposure Statement

For the

**Telonics Inc.**

**SST-901 Portable Radio Modem**

October 31, 2011

**Prepared for:**

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A handwritten signature in black ink, appearing to read 'Hoosamuddin Bandukwala'.

Hoosamuddin Bandukwala



Cert # ATL-0062-E

### Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where,

S = power density (mW/cm<sup>2</sup>)

P = output power at the antenna terminal (mW)

G = gain of transmit antenna (numeric)

R = distance from transmitting antenna (cm)

Maximum peak output power at antenna input terminal = 26.27 (dBm)

Maximum peak output power at antenna input terminal = 423.64 (mW)

Antenna gain (typical) = 0 (dBi)

Maximum antenna gain = 1 (numeric)

Prediction distance = 20 (cm)

Prediction frequency = 903 (MHz)

MPE limit for uncontrolled exposure at prediction frequency = 0.602 (mW/cm<sup>2</sup>)

*Power density at prediction frequency = 0.08428 (mW/cm<sup>2</sup>)*

To solve for the minimum mounting distance required;

$$R = \sqrt{PG/4\pi S}$$

$$R = \sqrt{11.72 \times 0.8 / 4\pi \times 0.43348} = \underline{20 \text{ cm}} \text{ (Based on continuous transmission)}$$

## RF Exposure Statement

### 1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a portable device.

### 2. Measurement Result:

This a portable device and the max peak output power is 26.27 dBm (0.423W). Lower that low threshold 60/f GHz mW (66.44 mW), d<2.5 cm general population category.

The SAR measurement is not necessary

**END OF TEST REPORT**