

**FCC Part 15.247
Transmitter Certification**

Frequency Hopping Spread Spectrum Transmitter

Test Report

FCC ID: P2SNTGR900G

FCC Rule Part: 15.247

ACS Report Number: 06-0101-15C

**Manufacturer: Neptune Technology Group, Inc.
Model: R900G**

RF Exposure

General Information:

Applicant: Neptune Technology Group, Inc.
 ACS Project: 06-0101
 FCC ID: P2SNTGR900G
 Device Category: Fixed
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Integrated PCB Mounted Helix
 Antenna Gain: 0dBi
 Transmitter Conducted Power: 18.22dBm (Calculated)
 Maximum System EIRP: 18.22dBm
 Operating Configuration: Fixed mounted
 Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
911.08	18.22	0.61	66.37	0	1.000	20	0.013

Installation Guidelines

The installation manual contains the following text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

"RF Exposure (Intentional Radiators Only)"

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20cm is maintained from the general population."

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.