

Certification Test Report

**FCC ID: P2SNTGECDR900D
IC: 4171B-ECDR900Z**

**FCC Rule Part(s): 15.247, 15.249
IC Radio Standards Specification: RSS-210**

ACS Report Number: 07-0481 - 15C

**Manufacturer: Neptune Technology Group, Inc.
Model: E-Coder)R900i**

RF Exposure

General Information:

Applicant: Neptune Technology Group, Inc.
 ACS Project: 07-0481
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type(s):

E-coder)R900i Slip On Pit Antenna (Neptune Technology Group, Inc. model number 12690-001)
 E-coder)R900i Lid Mount Pit Antenna (Neptune Technology Group, Inc. model number 12527-200)
 E-coder)R900i Wire Inside Antenna (Neptune Technology Group, Inc. model number 12641-001)

Antenna Gain: 0 dBi

Maximum Transmitter Conducted Power: 23.37dBm (Calculated from field strength)

Maximum System EIRP: 23.37 dBm

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/Cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
911	23.37	0.61	217.27	0	1.000	20	0.043

Installation Guidelines

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

RF Exposure

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

Conclusion

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