

## **FCC Part 15 Subpart C**

### **Frequency Hopping Spread Spectrum Transmitter**

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

**Model: R900-v2  
FCC ID: P2SNTGSRFV2**

**ACS Report Number: 03-0003-15PC**

### **Class II Permissive Change Test Report**

## **APPENDIX D**

### **RF Exposure Information**

This test report shall not be reproduced except in full. This report may be reproduced in part with prior written consent of ACS, Inc. The results contained in this report are representative of the sample(s) submitted for evaluation.

**This appendix contains 2 pages**



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612

**General Information:**

This device was originally granted with 2 antennas on 12/30/2002. The following MPE information is for the new antenna associated with this filing.

Applicant: Neptune Technology Group, Inc  
ACS Project: 03-0003  
FCC ID: P2SNTGSRFV2  
Device Category: Mobile Device  
Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Integrated folded dipole and External Patch  
Antenna Gain: 2.15 dBi  
Transmitter Conducted Power: 18dBm or 63mW  
Maximum System EIRP: 16.5dBm or 25mW with integrated antenna  
Operating Configuration: Wall Mounted  
Exposure Conditions: Usually greater than 20cm from the population

**MPE Calculation**

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d = (mW/cm^2) = \frac{E^2}{3770}$$

MPE Distance

MPE Calculator for 900MHz Mobile Equipment					
Limits for General Population/Uncontrolled Exposure*					
Transmit Freq. (MHz)	Radio Power (dBm)	Antenna Gain (dBi)	Sytem EIRP (mW)	MPE Limit (mW/cm2)	MPE Distance (cm)
911	18	2.15	103.51	0.61	2.24

**Installation Guidelines**

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

“This equipment complies with the FCC RF radiation requirements for uncontrolled environments. To maintain compliance with these requirements, the antenna and any radiating elements should be installed to ensure 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 and any radiating structure and the general population.