



Excellence in Compliance Testing

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## **Certification Exhibit**

**FCC ID: P2SMRXV3**

**FCC Rule Part: 47 CFR Part 2.1091**

**ACS Project Number: 16-0202**

Manufacturer: Neptune Technology Group Inc.  
Model: MRX920v3

## **RF Exposure**

**General Information:**

Applicant: Neptune Technology Group Inc.  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Whip Antenna  
 Antenna Gain: 5.1 dBi  
 Maximum Transmitter Conducted Power: 21.39 dBm, 137.72 mW  
 Maximum System EIRP: 26.49 dBm, 445.66 mW  
 Exposure Conditions: 20 centimeters or greater

**MPE Calculation**

The Power Density (mW/cm<sup>2</sup>) is calculated as follows:

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

Where:

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

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)

**Table 1: MPE Calculation**

Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm <sup>2</sup> )	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )
919.0769	21.39	0.61	137.72	5.1	3.236	20	0.089