

## **Certification Exhibit**

**FCC ID: RGY-9520**

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

**ACS Project Number: 16-3098**

Manufacturer: Roadmaster Inc.  
Model: EA066-R

## **RF Exposure**

**General Information:**

Applicant: Roadmaster Inc.  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Helical SMT  
 Antenna Gain: 0.8 dBi  
 Maximum Transmitter Conducted Power: 7.92 dBm, 6.19 mW  
 Maximum System EIRP: 8.72 dBm, 7.45 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/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
923.42	7.92	0.62	6.19	0.8	1.202	20	0.001