



## **Certification Exhibit**

**FCC ID: TMAELK-6051**

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

**TÜV SÜD Project Number: 72126638**

**Manufacturer: ELK Products, Inc.  
Model: ELK-6051**

## **RF Exposure**

**General Information:**

Applicant: ELK Products, Inc.  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: 22 AWG 6.9 cm Wire  
 Antenna Gain: 0 dBi  
 Maximum Transmitter Conducted Power: 19.34 dBm, 85.90 mW  
 Maximum System EIRP: 19.34 dBm, 85.90 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> )
903.015	19.34	0.60	85.90	0	1.0	20	0.017