

# **Certification Exhibit**

FCC ID: TMAELK-6052

FCC Rule Part: 47 CFR Part 2.1091

**TÜV SÜD Project Number: 72144707** 

Manufacturer: ELK Products, Inc. Model: ELK-6052 and ELK-6053

**RF Exposure** 

Model: ELK-6052 and ELK-6053 FCC ID: TMAELK-6052

## **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: 18.54 dBm, 71.45 mW

Maximum System EIRP: 18.54 dBm, 71.45 mW Exposure Conditions: 20 centimeters or greater

## **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)

#### **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)
902.989	18.54	0.60	71.45	0	1.0	20	0.014

Project: 72144707 TÜV SÜD America Inc.