



## **Certification Exhibit**

**FCC ID: LV3RF28**

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

**Project Number: 72152852**

Manufacturer: Digitrax, Inc.  
Model: RF28

**RF Exposure**

**General Information:**

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

**Technical Information:**

Antenna Type: Surface Mount Ceramic Chip  
 Antenna Gains: Surface Mount Ceramic Chip / 0.5 dBi  
 (Johanson Technology, P/N: 2450AT18B100)  
 Maximum Transmitter Conducted Power: 19.3dBm, 85.11mW  
 Maximum System EIRP: 19.8dBm, 95.50mW  
 Exposure Conditions: Greater than 20 centimeters

**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> )
2405	19.3	1.00	85.11	0.5	1.122	20	0.019

Note: The device does not support simultaneous transmissions