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## **Certification Exhibit**

**FCC ID: R7PNG0R1S4**

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

**Project Number: 72194622**

Manufacturer: Landis + Gyr Technology, Inc  
Model Name: Series-6 RF Mesh mSBR Card  
Product Marketing Number: N651

## **RF Exposure**

**General Information:**

Applicant: Landis + Gyr Technology, Inc  
Device Category: Mobile  
Environment: General Population/Uncontrolled Exposure

**Technical Information (900MHz– FCC 15.247):**

Antenna Type: Dipole Antenna  
\*\*Antenna Gain: 5.7 dBi  
\*Maximum Transmitter Conducted Power: 29.96dBm, 990.83mW  
Maximum System EIRP: 35.66dBm, 3681.29mW  
Exposure Conditions: 23 centimeters  
\*Worst Case from all 900 MHz modes (FHSS/Hybrid/DTS)  
\*\*Antenna Gain declared by the client.

**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> )
902.2	29.96	0.6015	990.83	5.7	3.715	23	0.5538