



Certification Exhibit

FCC ID: R7PNG0R1S4

FCC Rule Part: 47 CFR Part 2.1093

Project Number: 72146310

Manufacturer: Landis+Gyr Technology, Inc.
Model: Series-6 RF Mesh mSBR Card

RF Exposure

General Information:

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

Technical Information:

Antenna Type: Dual Band Dipole
 Antenna Gain: 4.5dBi / 8dBi (900MHz / 2.4GHz)
 Maximum Transmitter Conducted Power: 30dBm, 1000mW (900MHz); 26.9 dBm, 489.8 mW (2.4GHz)
 Maximum System EIRP: 34.5 dBm, 2818.4 mW (900MHz); 34.9 dBm, 3090.3 mW (2.4GHz)
 Exposure Conditions: Greater than 40 centimeters

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/cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
902.4	30	0.60	1000.00	4.5	2.818	36	0.173
2410.8	26.9	1.00	489.78	8	6.310	36	0.190

Table 2: Simultaneous Transmissions Calculations

Transmit Frequency (MHz)	Power Density Limit (mW/cm ²)	Power Density (mW/cm ²)	MPE Ratio to Limit (%)	Sum of MPE Ratios (%)	Limit (%)
902.4	0.60	0.173	28.77	47.74	100
2410.8	1.00	0.190	18.98		