



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 | | |