

Certification Exhibit

FCC ID: R7PNG0R1S5LP

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72172746

Manufacturer: Landis + Gyr Technology, Inc Model: T1501 Series-5 Mesh

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:Monopole Chip AntennaAntenna Gains:1 dBiMaximum Transmitter Conducted Power: 29.97dBm, 993.12mWMaximum System EIRP: 30.97dBm, 1250.26mWExposure Conditions: 20 centimeters*Worst Case from all 900 MHz high power modes (FHSS)

Technical Information (900 MHz – FCC 15.249):

 Antenna Type:
 Monopole Chip Antenna

 Antenna Gains:
 1 dBi

 Maximum System EIRP: -1.58dBm, 0.70mW

 Exposure Conditions: 20 centimeters

 *EIRP calculated from field strength using EIRP (dBm) = E (dBuV/m) + 20log(D) – 104.8; where D is the measurement distance (in the far field region) in m.

*Worst Case from all 900 MHz low power modes (DXT)

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)

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/cm²)
902.3	29.97	0.60	993.12	1.0	1.259	20	0.249

Table 1: MPE Calculation (900 MHz – FCC 15.247)

Table 2: MPE Calculation (900 MHz – FCC 15.249)

Transmit Frequency (MHz)	Radio Power EIRP (dBm)	Power Density Limit (mW/cm ²)	Radio Power EIRP (mW)	Distance (cm)	Power Density (mW/cm²)
915	-1.58	0.61	0.70	20	0.00014