

## **Certification Exhibit**

**FCC ID: R7PCONCS4B5**

**FCC Rule Part: 15.247**

**ACS Project Number: 12-0408**

Manufacturer: Landis+Gyr Technology, Inc.  
Model: Series-4 Conc. BLT-5

## **RF Exposure**

**General Information:**

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

**Technical Information BLT5 DTS:**

Antenna Type: Omni-directional collinear elevated feed point  
 Antenna Gain: 5.15 dBi  
 Maximum Transmitter Conducted Power: 24.87 dBm, 306.90 mW  
 Maximum System EIRP: 30.02 dBm, 1004.62 mW  
 Exposure Conditions: Greater than 20 centimeters

**Technical Information IWR DSS:**

Antenna Type: Whip  
 Antenna Gain: 5 dBi  
 Maximum Transmitter Conducted Power: 29.73 dBm, 939.72 mW  
 Maximum System EIRP: 34.73 dBm, 2971.67 mW  
 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)

MPE Calculator for Mobile Equipment							
Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
917.58	24.87	0.61	306.90	5.15	3.273	20	0.200
902.2	29.73	0.60	939.72	5	3.162	20	0.591

**Installation Guidelines**

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

**RF Exposure**

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

**Conclusion**

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.