Client: Innovative Wireless Technologies, Inc. Model #: IXU1-ASY1168 Standards: FCC 15.247 FCC ID: SP8-IXU1-ASY1168 Report #: 2006098

## Appendix A: FCC Part 1.1307, 1.1310, 2.1091, 2.1093; IC RSS-Gen: RF Exposure

From FCC 1.1310 Table 1A, the maximum permissible RF exposure for an uncontrolled environment is f/1500 or 0.61 mW/cm<sup>2</sup>. The electric field generated for a 1 mW/cm<sup>2</sup> exposure (S) is calculated as follows:

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

- S = Power density
- P = Transmitter conducted power in watts
- G = Numeric gain
- d = distance to radiation center

Fundamental Operating Frequency: 903–927 MHz Measured Maximum Output Power: 0.009 Watts (9 mW) Antenna Gain = -0.7 dBi; Numeric Gain = 0.85

 $S = (9 \times 0.85)/(4 \times Pi \times 20^2) = 0.002 \text{ mW/cm}^2$ 

Under normal operating conditions, the antenna is designed to maintain a separation distance of 20 cm from all persons. The EUT is mobile and fixed.

## **Calculated Power Density**

Antenna Gain = -0.7 dBi Conducted Power (milli-Watt) = 9	
Separation Distance = 20 cm	
FCC Power Density Limit	Calculated Power Density at 20 cm Distance
0.61 mW/cm <sup>2</sup>	0.002 mW/cm <sup>2</sup>