



## RF Exposure Evaluation

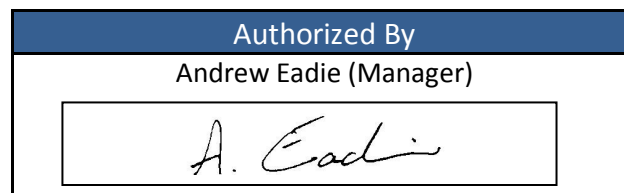
**Report Prepared for:** Axxess Industries Inc.  
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**Equipment Under Test (EUT):** Model: LPZM3

**FCC ID:** WP4LPZM3  
**IC Certification number:** 9709A-LPZM3

**FCC Rule Part(s):** Part 15B, 15C  
**Industry Canada Rule Part(s)** RSS-210

**Tested by:** Island Compliance Services Inc.  
6454 Fitzgerald Road  
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**Date:** 28<sup>th</sup> May 2013

**FCC OATS registration number:** 386117  
**Industry Canada OATS registration number:** 9578B-1

## 1.1 RF EXPOSURE EVALUATION

FCC 1.1310 states the criteria listed in the table below shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Section 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Section 2.1093. Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation".

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (s)
(A) Limits for Occupational/Control Exposures				
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6
(B) Limits for General Population/Uncontrolled Exposures				
300-1500	-	-	F/1500	6
1500-100,000	-	-	1	30

TABLE 1 - POWER DENSITY LIMITS

## 1.2 EUT OPERATING CONDITION

Maximum antenna gain = 4 dBi (nom)

## 1.3 RF EXPOSURE EVALUATION DISTANCE CALCULATION

Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	Max EIRP (W)	Power Density Limit (mW/cm <sup>2</sup> )	R (cm)
2.405	-10.12	4.0	0.00024	1	0.13
2.440	-11.40	4.0	0.00018	1	0.12
2.480	-12.80	4.0	0.00005	1	0.06

TABLE 2 - DISTANCE CALCULATIONS

where: S = Allowable Power density Limit (mW/cm<sup>2</sup>)  
EIRP = Equivalent (or effective) isotropically radiated power (mW)  
R = Distance to the center of radiation of the antenna (cm)

$$R = \sqrt{\frac{EIRP}{4 \cdot \pi \cdot S}}$$

As shown above, the minimum distance where the MPE limit is reached is 0.13 cm from the EUT with 4.0 dBi antenna.