



## **RF Exposure Evaluation**

**FCCID: QRF-BNYKH900A**

**900 MHz Wireless Outdoor AP/Router/Bridge**  
**Tranzeo Wireless Technologies Inc.**

Date: February 2, 2009

Report No.: 020209.1

Labs: 19473 Fraser Way, Pitt Meadows, BC, Canada V3Y 2V4

A handwritten signature in blue ink that appears to read "Andrew Marles".

Andrew Marles  
EMC Manager

A handwritten signature in blue ink that appears to read "Bruce Balston".

Bruce Balston  
EMC Engineer

## 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 of this chapter. 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
(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

## EUT Operating Condition

The maximum antenna gain is 13 dBi.

## RF exposure evaluation distance calculation FCC 1.304

### 900 MHz radio with 13 dBi antenna

Freq (MHz)	Output Power to Antenna (dBm)	Antenna Gain (dBi)	r (cm)
908	26.66	13	34.8
910	27.07	13	36.5
913	26.26	13	33.2
915	27.69	13	39.1
920	25.95	13	31.9
923	25.43	13	30

As shown above, the minimum distance where the MPE limit is reached is 39.1 cm for the EUT.