

RF Exposure Evaluation
TR-900 Series
Wireless Network Adapter
Tranzeo Wireless Technologies Inc.

Date: April 20, 2006

Report No.: 200406.1

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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 ²)	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 14 dBi as stated by the manufacturer. In this configuration the EUT's power is limited in firmware to 22 dBm to ensure compliance with the 36 dBm EIRP limit.

RF exposure evaluation distance calculation

EUT with 14 dBi antenna

Freq (MHz)	Output Power to Antenna (dBm)	Antenna Gain (dBi)	r (cm)
908	20.70	14	20
918	21.76	14	22
923	21.92	14	23

As shown above, the minimum distance where the MPE limit is reached is 23 cm for the EUT.