TRANZEO
EMC LABS INC

RF Exposure Evaluation

TR-6600 Series

2.4 GHz Wireless Network Adapter

Tranzeo Wireless Technologies Inc.

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A.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 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

Maximum EIRP is obtained with the 24 dBi grid antenna. When used with this antenna the output of the radio is reduced to a maximum of 24 dBm as part of the hardware installation.

RF exposure evaluation distance calculation

EUT with 24 dBi antenna

Channel	Freq (MHz)	Output Power to Antenna (dBm)	Antenna Gain (dBi)	r (cm)
6	2437	23.48	24	67

As shown above, the minimum distance where the MPE limit is reached is 67 cm for the EUT.