

RF Exposure Evaluation

Date: April 20, 2006

Report No.: 200406.1

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

Bruce Balston EMC Engineer Andrew Marles EMC Coordinator

andrew armly

Tranzeo EMC Labs Inc. Page 2 of 2

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						
300-1,500			F/300	6		
1,500-100,000			5	6		
(B) Limits for General Population/Uncontrolled Exposures						
300-1,500			F/1500	30		
1,500-100,000			1	30		

EUT Operating Condition

Maximum EIRP is obtained with the 8 dBi antenna.

RF exposure evaluation distance calculation

Freq (MHz)	Output Power to Antenna (dBm)	Output Power to Antenna (W)	Antenna Gain (dBi)	r (cm)
806.0625	28.1	0.645	8	27.6
824.9875	28.0	0.631	8	26.9
896.0188	27.7	0.589	8	25.0
901.9813	27.8	0.603	8	25.2

As shown above, the minimum distance where the MPE limit is reached is 27.6 cm for the EUT.