



RF Exposure Evaluation

QRF-PVE25XBY

2.5 GHz Wi-Max CPE

Tranzeo Wireless Technologies Inc.

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

A handwritten signature in blue ink that appears to read "Andrei Moldavanov".

Andrew Marles
EMC Manager

Andrei Moldavanov
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 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 24 dBi at 2.3 - 2.5 GHz.

Method of measurements

All test conditions and measurement procedures were performed in accordance with FCC 1.1310.

RF exposure evaluation distance calculation

2.5 GHz radio with 24 dBi antenna

Frequency, MHz	Output Power to Antenna, dBm	Antenna Gain, dBi	EIRP, dBm	Distance, cm
2305	20.03	24	44.03	44.8
2320	20.41		44.41	46.9
2345	20.32		44.32	46.4
2360	20.07		44.07	45.1
2495	21.20		45.20	51.3
2590	20.81		44.81	49.1
2690	20.60		44.60	47.9

As shown above, the minimum distance where the MPE limit is reached is 51.3 cm for the EUT.