RF Exposure Information.

References: *TCB Training Document*, Session 6, May12-16 2003, *TCB Exclusion List*, Appendix A, footnote #3, general population low threshold levels, at distances ≥2.5cm, revised 17 July 2002.

The TCB training document, states that TCB Excl List low thresholds are not appropriate for compliance demonstration of fixed devices, but are used as a secondary check on MPE levels.

This document shows that for a transmit duty factor of 7.0%, the worst-case source based time averaged output power from the RT-2200 is 27.748mW below the limits imposed by the referenced TCB Exclusion list.

Typically, the RT-2200 operates with a duty factor of 0.3%. However, given a worst-case scenario of network power outage reporting and clearing of accumulated messages followed by a typical transmit occurring within the same 30-minute period, the duty factor would be 7.0%.

Measured output power from Protocol-EMC Test Report.	Power := $\frac{\frac{36.5 \text{ dBm}}{10}}{1000}$ Power = 4.467W
Source based time averaged output power of RT-2200.	DF := 7.0 % Gain _{ant} = 1.64 ERIP := Power \cdot DF \cdot Gain _{ant} ERIP = 512.793mW
Source based time averaged output power Low threshold limit.	Threshold $_{TCB_excl_list} := \frac{120}{.222} \cdot mW$ Threshold $_{TCB_excl_list} = 540.541mW$
Margin below the Low Threshold limit.	margin := Threshold $_{TCB_excl_list}$ – ERIP margin = 27.748mW

Table 1 Radiated Output Power for a RT-2200 with 7.0% Duty Factor.