

RF Safety Exhibit

Revision: 01

Date: 05 June 2003

Equipment: WaveCom TRI5758 Broadband Wireless Transceiver

FCC ID: OPPTRI5758

The maximum safe distance from the antenna at which MPE is met or exceeded is calculated from the equation relating field strength in V/m, transmit power in Watts, transmit antenna gain, and separation distance in meters.

Basis of calculations:

Prediction of MPE limit at a given distance:

Equation from page 18 of OET Bulletin 65, Edition 97-01:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	5.30	(dBm)
Maximum peak output power at antenna input terminal:	3.388441561	(mW)
Antenna gain(typical):	23	(dBi)
Maximum antenna gain:	199.5262315	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5725-5825	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm ²)
Power density at prediction frequency:	0.134502	(mW/cm ²)
Maximum allowable antenna gain:	31.71269855	(dBi)
Margin of Compliance at 30cm =	8.7	(dB)

Installation Requirements:

The TRI5758 is supplied with an integrated antenna. Installation of the TRI5758 is described in the user manual, which is supplied with each TRI5758.

The following statement is included in the user manual, see “Information to User” section on page v of “INSTALLATION AND OPERATION GUIDE FOR SYSTEM OPERATORS”:

CAUTION: This device must be professionally installed.

WARNING:

In order to comply with the FCC radiofrequency exposure limits of 1.1310, this equipment must be installed in such a way as to provide a minimum separation distance of 0.5m from the transmitting antenna to persons nearby.