RF Exposure

This calculation is based on the highest EIRP possible from the Remote or the Base considering maximum power and antenna gain.   The following formulas were used:

The highest output power of the EUT is 89 mW and the gain of the antenna is 0 dBi. The device is not portable or body worn.

1 MINIMUM SEPARATION DISTANCE PER OET 65

The following information provides the minimum separation distance for the EUT, as calculated from **FCC OET 65 Appendix B, Table 1B** "Guidelines for General Population/Uncontrolled Exposure"

Freq. MHz	S GP limit mW/cm^2	Maximum RF power dBm	Antenna Gain dB	EIRP dBm	EIRP watts	MSD d meters
2440	1	19.5	0	19.5	0.0891	0.0266

 GP is the limit for general Population/Uncontrolled Exposure
 MSD is the minimum Seperation Distance

Notes on above table.
(S) GP limit is from OET 65 table 1B
EIRP = Power in dBm + Antenna Gain in dBi
MSD (Minimum Separation Distance) = ((EIRP*30)/3770*S))^0.5

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less.

2 RF EVAULATION FOR RSS-102E

Since the e.i.r.p. of the Product is 89 mW, it is exempt from routine SAR and RF exposure evaluations in accordance to Sections 2.5.1 or 2.5.2 of RSS-102e.

The following information provides the calculation for section 4.2 of RSS-102e for the General Public.

Freq. MHz	RF Power dBm	Antenna Gain dB	Effective RF power dBm	Effective RF power mW	Measurment Distance meters	RF field from EUT V/m	Exposure GP limit V/m rms
2440	9.6	0	9.6	9.12	0.025	20.9	61.4

 GP is the limit for general Public

Note on above table.
ERP = (V/m * dist)^2/30