RF Exposure

This calculation is based on the highest EIRP possible from the EUT.   The following formulas were used:

The peak effective radiated power is 46 mW or 16.7 dBm

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
2450	1	16.7	0	16.7	0.0468	0.0193

 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

This is not a hand held device.

2 RF EVAULATION FOR RSS-102E

Since the e.i.r.p. of the Product is 46 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	mW	Measurment Distance meters	RF field from EUT V/m	Exposure GP limit V/m rms
2450	16.7	0	16.7	46.77	0.025	47.4	61.4

 GP is the limit for general Public

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