



5.0 Radio Frequency Exposure Compliance of Radiocommunication Apparatus

RSS-102 Issue 4

5.1 Exemption from Routine Evaluation limits – SAR Evaluation

Test Requirement: RSS-102 Issue 4 section 2.5.1

Results: PASS

The separation distance between the user and the device’s element should greater than 20 cm hence it deems to fulfill the requirement of RSS-102 section 2.5.1 without further testing.

5.2 Exemption from Routine Evaluation Limits – RF Exposure Evaluation

Test Requirement: RSS-102 Issue 4 section 2.5.2

Results: PASS

For the purpose of the exemption clause of RSS-102 section 2.5.2, the TP is calculated according to the following equation given in RSS-Gen section 4.6 :

$$TP = \frac{(FS \times D)^2}{30 \times G}$$

where
 FS : Field Strength in volts/metre
 D : Distance between two antennas in metres
 G : Antenna gain, 0dBi

According to clause 4.7, the Max. Output Power is 0.072W.

EIRP = 72 mW

The power density at 20cm from the antenna : = EIRP / 4π R²
 = 0.0143 mW / cm²

Therefore, for the device operating at or above 1.5GHz with e.i.r.p equal to or less than 5W is deemed to fulfill the requirement of RSS-102 section 2.5.2 without further testing.