

# Appendix 5 RF Exposure Information



# **Maximum transmitter power:**

Frequency (MHz)	Maximum peak output power (dBuV/m)	Output power (mW)	Separation distance (mm)
2404	90.2	0.31	5
2440	88.6	0.22	5
2480	87.9	0.18	5

# For FCC

According to KDB 447498 D01:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$ 3.0 for 1-g SAR and  $\leq$ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

#### Result:

 $(0.31/5)*\sqrt{2.404} = 0.096 < 3.0$ 

 $(0.22/5)*\sqrt{2.440} = 0.069 < 3.0$ 

 $(0.18/5)*\sqrt{2.480} = 0.057 < 3.0$ 

#### Conclusion:

No SAR is required.

# For IC

According to table 1 in RSS-102 Issue 5, below exemption limit is applied

Frequency: 2450MHz

At separation distance of ≤ 5mm

Exemption limits: 4mW

## Results:

max. power of channel = 90.2dBuV/m = 0.31mW < 4mW

## **Conclusion:**

The maximum peak output power of the transmitter is less than the SAR evaluation exemption threshold and hence it complies with the RSS-102 RF exposure requirement