

# Appendix 5 RF Exposure Information



## **Maximum transmitter power:**

Frequency (MHz)	Maximum peak output power (dBuV/m)	Output power (mW)
2404	89.30	0.2553
2440	89.70	0.2800
2480	88.50	0.2124

# 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)] · [√f(GHz)] ≤3.0 for 1-g SAR and ≤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:

 $(0.2553/5)*\sqrt{2.404} = 0.079 < 3.0$ 

 $(0.2800/5)^*\sqrt{2.440} = 0.087 < 3.0$ 

 $(0.2124/5)^*\sqrt{2.480} = 0.067 < 3.0$ 

#### **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 = 89.70dBuV/m = 0.2800mW < 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