# Appendix 5 RF Exposure Information

### **Maximum transmitter power:**

Frequency	Maximum peak output power	Output power
(MHz)	(dBuV/m)	(mW)
2405	88.12	0.196
2440	86.94	0.149
2475	86.71	0.142

## 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)] · [ $\sqrt{f(GHz)}$ ] ≤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:

 $(0.196/5)*\sqrt{2.405} = 0.061 < 3.0$ 

 $(0.149/5)^*\sqrt{2.440} = 0.047 < 3.0$ 

 $(0.142/5)^*\sqrt{2.475} = 0.070 < 3.0$ 

## 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 = 88.12dBuV/m = 0.196mW < 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