# Appendix 5 RF Exposure Information

# Maximum transmitter power:

	Frequency (MHz)	Maximum peak output power (dBuV/m)	Output power (mW)
Ī	2403	82.98	0.060
Ī	2442	79.69	0.028
Ī	2475	73.95	0.007

### 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)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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:

 $(0.060/5)*\sqrt{2.403} = 0.019 < 3.0$ 

 $(0.028/5)^*\sqrt{2.442} = 0.009 < 3.0$ 

 $(0.007/5)*\sqrt{2.475} = 0.002 < 3.0$ 

### 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 = 82.98dBuV/m = 0.060mW < 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