Appendix 5 RF Exposure Information

### Maximum transmitter power:

Frequency (MHz)	Maximum average output power (dBm)	Output power (W)
2410	-5.6	0.000274
2440	-4.7	0.000337
2470	-7.0	0.000198

# 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:**

(0.274/5)\*\\2.410 = 0.085 < 3.0

 $(0.337/5)^*\sqrt{2.440} = 0.105 < 3.0$ 

 $(0.198/5)^*\sqrt{2.470} = 0.062 < 3.0$ 

### Conclusion:

No SAR is required.

### For ISED

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 = 1.337mW < 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