

# **Appendix 5**

## **RF Exposure Information**

FCC ID: 2A2XI015  
IC ID: 27849-015  
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**Maximum transmitter power:**

| Frequency<br>(MHz) | Maximum peak field strength<br>(dBμV/m) | Maximum transmitter power<br>(mW) |
|--------------------|-----------------------------------------|-----------------------------------|
| 2402               | 80.3                                    | 0.032                             |
| 2404               | 78.4                                    | 0.021                             |
| 2471               | 81.4                                    | 0.041                             |

Note: The maximum peak field strength was taken from table of "Subclause 15.249(a)/RSS-210 B.10(a) – Field Strength of Fundamental and Harmonics".

**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* ≤ 5 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$   
 ≤ 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:**

$$(0.032/5) \cdot \sqrt{2.402} = 0.010 < 3.0$$

$$(0.021/5) \cdot \sqrt{2.440} = 0.016 < 3.0$$

$$(0.041/5) \cdot \sqrt{2.471} = 0.013 < 3.0$$

**Conclusion:**

No SAR is required.

**For ISED**

According to table 1 in RSS-102 Issue 6, below exemption limit is applied

Frequency: 2471 MHz

At separation distance of ≤ 5mm

Exemption limits: 3mW

**Results:**

max. power of channel = 0.041mW < 3mW

**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