

Appendix 5

RF Exposure Information

FCC ID: 2A2XI312
IC ID: 27849-312

Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Maximum peak output power (mW)	Maximum peak field strength (dBuV/m)
2402	-8.03	0.157	87.2
2470	-8.03	0.157	87.2
2471	-7.13	0.193	88.1

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* ≤50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$

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:

$$(0.157/5) \cdot \sqrt{2.402} = 0.048 < 3.0$$

$$(0.157/5) \cdot \sqrt{2.470} = 0.049 < 3.0$$

$$(0.193/5) \cdot \sqrt{2.471} = 0.060 < 3.0$$

Conclusion:

No SAR is required.

For ISSED

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 = 0.025mW < 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