

Appendix 5 RF Exposure Information



Maximum transmitter power:

Frequency	Maximum peak output power	Output power
(MHz)	(dBm)	(mW)
2405	-5.9	0.255
2440	-6.0	0.250
2475	-6.0	0.250

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 [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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:

 $(0.255/5)*\sqrt{2.405} = 0.08 < 3.0$

 $(0.250/5)*\sqrt{2.440} = 0.08 < 3.0$

 $(0.250/5)^*\sqrt{2.475} = 0.08 < 3.0$

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 = 0.255mW < 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