

Appendix 5 RF Exposure Information



Maximum transmitter power:

Frequency (MHz)	Maximum peak output power (dBm)	Output power(mW)
2412	-15.88	0.025822
2432	-17.70	0.016982
2457	-20.14	0.009682

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)] $\cdot \left[\sqrt{f_{(GHz)}}\right] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,₂₄ where

• f_(GHz) is the RF channel transmit frequency in GHz

• Power and distance are rounded to the nearest mW and mm before calculation25

• 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:

(0.025822/5)*\2.412 = 0.008 < 3.0

 $(0.016982/5)^*\sqrt{2.432} = 0.005 < 3.0$

(0.009682/5)*√2.457 = 0.003 < 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

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 without SAR evaluation.