

Appendix 5 RF Exposure Information



Maximum transmitter power:

| Frequency | Maximum peak output power | Output power |
|-----------|---------------------------|--------------|
| (MHz) | (dBm) | (mW) |
| 2407 | 1.79 | 1.510 |
| 2442 | 0.92 | 1.236 |
| 2478 | 1.18 | 1.312 |

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)] · [$\sqrt{f(GHz)}$] ≤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:

 $(1.510/5)*\sqrt{2.407} = 0.468 < 3.0$

 $(1.236/5)*\sqrt{2.442} = 0.386 < 3.0$

 $(1.312/5)*\sqrt{2.478} = 0.413 < 3.0$

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

Results

max. power of channel = 1.79 dBm = 1.510 mW < 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