

Appendix 5

RF Exposure Information

FCC ID: YFA370401017
IC: 12260A-370401017

Maximum transmitter power:

Frequency (GHz)	Maximum peak output power (dBuV/m)	Output power (mW)
2.420	87.44	0.1664
2.445	91.11	0.3874
2.465	87.53	0.1699

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

- $f(\text{GHz})$ 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:

$$(0.1664/5) \cdot \sqrt{2.420} = 0.052 < 3.0$$

$$(0.3874/5) \cdot \sqrt{2.445} = 0.121 < 3.0$$

$$(0.1699/5) \cdot \sqrt{2.465} = 0.053 < 3.0$$

Conclusion:

No SAR is required.

For IC

According to table 1 in RSS-102 Issue 5, below exemption limit at separation distance of ≤ 5mm is applied:

Frequency (MHz)	Exemption limits (mW, by linear interpolation)
2400	4.273
2483.5	3.936

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.