

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

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

eirp = pt x gt = $(EXd)^2/30$ where: pt = transmitter output power in watts, gt = numeric gain of the transmitting antenna (unitless), E = electric field strength in V/m, --- $10^{((dBuV/m)/20)}/10^6$ d = measurement distance in meters (m) ---3m So pt = $(EXd)^2/30$ x gt

Ant gain =0.0dBi, so Ant numeric gain= 1.00

2.4G WiFi: Maximum peak output power=9.52dBm=8.954mw

So pt=8.954*1.00 =8.954mW So (8.954mW /5mm)x √2.412 = 2.781<3.0

5.1G WiFi:

Maximum peak output power=7.56dBm=5.702mw

So pt=5.702*1.00 =5.702mW So (5.702mW /5mm)x √5.2 = 2.601<3.0

5.8G SRD: Maximum peak output power=7.32dBm=5.395mw

So pt=5.395*1.00 =5.395mW So (5.395mW /5mm)x √5.825 = 2.604<3.0

Then SAR evaluation is not required