

RF Exposure evaluation

According to 447498 D01 General RF Exposure Guidance
v05

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:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \cdot \left[\sqrt{f(\text{GHz})} \right] \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}$$

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

Worse case is as below: [2462 MHz 9.54dBm (8.995mW)
output power]

$$\left(\frac{8.995\text{mW}}{5\text{mm}} \right) \cdot \left[\sqrt{2.462 \text{ (GHz)}} \right] = 2.84 < 3.0 \text{ for 1-g SAR}$$

Then SAR evaluation is not required