

RF Exposure Report

KDB 447498 D01 v06 section 4.3.1 SAR test exclusion thresholds formula:

- a) For 100 MHz to 6 GHz and *test separation distances* ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
- $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,³⁰ where
- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz

Tune-up Procedure

EUT Max technical

Channel center frequency: 2442MHz

(Peak) output power: 8.79dBm/7.57mW

Tune up out power: 9.5dBm/8.91mW(9mW is nearest mW)

Extremity-SAR

The reasonable distance is min 5mm

$9\text{mW} / 5\text{mm} \times (2.442)^{0.5} = 2.81$

$2.81 < \text{extermity-SAR test exclusion thresholds limit} = 7.5$

Body-SAR

The reasonable distance is min 5mm

$20\text{mW} / 20\text{mm} \times (2.462)^{0.5} = 2.81$

$2.81 < \text{body-SAR test exclusion thresholds limit} = 3.0$

So the Extremity-SAR and Body-SAR needless assess.