

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:
- $$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f_{\text{GHz}}} \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}^{30} \text{ where}$$
- f_{GHz} is the RF channel transmit frequency in GHz

Tune-up Procedure

EUT Max technical (average) output power: 13dBm/20mW

Extremity-SAR

The reasonable distance is min 5mm

$$20\text{mW} / 5\text{mm} \times (2.462)^{0.5} = 6.28$$

$6.28 < \text{extremity-SAR test exclusion thresholds limit} = 7.5$

Body-SAR

The reasonable distance is min 20mm

$$20\text{mW} / 20\text{mm} \times (2.462)^{0.5} = 1.57$$

$1.57 < \text{body-SAR test exclusion thresholds limit} = 3.0$

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