

# 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*  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
- $$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}^{30} \text{ where}$$
- $f_{\text{(GHz)}}$  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.