

RF Exposure Letter

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 ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1 - g SAR and ≤ 7.5 for 10 - g extremity SAR, 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

$P_t = 82.42 - 95.2 = -12.78 \text{ dBm} = 0.0527 \text{ mW}$ at 433.835 MHz

$So (0.0527 \text{ mW}/5 \text{ mm}) \cdot \sqrt{0.433835 \text{ GHz}} = 0.00695 < 3$

Then SAR evaluation is not required