

SAR Exclusion Evaluation

SAR Test Exclusion Thresholds:

(FCC KDB Publication 447498 D01 v06)

For $100 \text{ MHz} \leq f \leq 6 \text{ GHz}$ and $d_{\min} \leq 50 \text{ mm}$:

$$\frac{P_{\max}}{d_{\min}} \cdot [Vf_{(\text{GHz})}] \leq 3.0 \quad \text{for 1-g SAR, and}$$

$$\leq 7.5 \quad \text{for 10-g extremity SAR}$$

where P_{\max} = max. power of channel in mW
 d_{\min} = minimum test separation distance in mm
 f = RF channel transmit frequency

Calculation:

For $f = 2.402 \text{ GHz}$, $P_{\max} = 0.7762 \text{ mW}$, $d_{\min} = 5 \text{ mm}$:

$$\frac{P_{\max}}{d_{\min}} \cdot [Vf_{(\text{GHz})}] = 0.3729 \leq 3.0 \quad \text{for 1-g SAR, and}$$

$$\leq 7.5 \quad \text{for 10-g extremity SAR}$$

Evaluation Results: Complies