

# Standalone SAR test exclusion considerations

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- Device category =  Portable device  Mobile device
- Transmitting mode =  Single Transmitting  Simultaneous Transmitting
- Max. transmitting frequency = **2480** MHz
- Min. test separation distance = **200** mm
- Max. Antenna Gain = **-0.1** dBi
- Max. power with turn-up tolerance = **3.50** dBm = **2.3** mW ( Typical Power = **Max. 3.50** dBm )

Note. Bluetooth(1Mbps,2Mbps,3Mbps)

## KDB 447498 D01 clause 4.3.1 Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separationn distances > 50 mm

[ Threshold at 50 mm + ( test separation distance - 50 mm ) X 10 ] mW

$$= [ 0.02 + ( 200\text{mm} - 50\text{mm} \times 10 ) ] = 1500$$

Note. The calculation result was rounded to one decimal place for comparison.

→ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.

## Maximum Permissible Exposure(MPE) evaluation for mobile device

$$S = P G / ( 4 R^2 \pi ), \text{ mW/cm}^2$$

$$= 0.000447 \text{ mW/cm}^2$$

S = Maximum power density  
P = Maximum power with turn-up tolerance

G = Numeric power gain of the antenna  
R = Distance from transmitting antenna

Conclusion: The exposure condition of this device is compliant with FCC rules.

The limit for maximum permissible exposure = 1.000000 mW/cm<sup>2</sup>