

# Standalone SAR test exclusion considerations

March 22, 2017

- Device category =  Portable device  Mobile device
- Transmitting mode =  Single Transmitting  Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 30 mm
- Max. Antenna Gain = 0.6 dBi
- Max. power with turn-up tolerance = 17.30 dBm = 53.8 mW ( Typical Power = Max. 17.30 dBm )

Note. Bluetooth

It is applied as the highest tune up power among BDR, EDR

## KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50$ mm

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

$$= [ ( 53.8\text{mW} / 30\text{mm} ) ] \times [ \sqrt{2.48\text{GHz}} ] = 2.8$$

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.**

# 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 = 30 mm
- Max. Antenna Gain = 0.6 dBi
- Max. power with turn-up tolerance = 1.00 dBm = 1.3 mW ( Typical Power = Max. 1.00 dBm )

Note. Bluetooth LE

It is applied as the highest tune up power among low/middle/high Channel.

## KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50$ mm

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

$$= [ ( 1.3\text{mW} / 30\text{mm} ) ] \times [ \sqrt{2.48\text{GHz}} ] = 0.1$$

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.**