

# Standalone SAR test exclusion considerations

August 27, 2017

- Device category =  Portable device     Mobile device
- Transmitting mode =  Single Transmitting     Simultaneous Transmitting
- Max. transmitting frequency = **2480** MHz
- Min. test separation distance = **5** mm
- Max. Antenna Gain = **1.519** dBi
- Max. power with turn-up tolerance = **7.50** dBm = **5.7** mW ( Typical Power = **Max. 7.50** dBm )

Note.

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

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

$$= [ ( 5.7\text{mW} / 5\text{mm} ) ] \times [ \sqrt{2.48\text{GHz}} ] = 1.8$$

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.**