

Standalone SAR test exclusion considerations

March 10, 2016

- Device category = Portable device Mobile device
- Transmitting mode = Single Transmitting Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 0 mm
- Max. Antenna Gain = 3.29 dBi
- Max. power with turn-up tolerance = 9.00 dBm = 8.0 mW (Typical Power = Max. 9.00 dBm)

Note. BT 1Mbps / 2Mbps / 3Mbps (Worst Case: 1Mbps)

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)] \cdot [$\sqrt{f(\text{GHz})}$] \leq 3.0 for 1g SAR and \leq 7.5 for 10g extremity SAR
= [(8mW / 5mm)] \times [$\sqrt{2.48\text{GHz}}$] = 2.5

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.***