

# Standalone SAR test exclusion considerations

July 9, 2015

- Max. Transmitting frequency = 2480 MHz
- Min. test separation distance = 5 mm
- Max. power with turn-up tolerance = 7.00 dBm = 5.1 mW

**Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances  $\leq$  50 mm = Used**

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$= [5.10 / 5] \cdot [\sqrt{2.48}]$$

$$= 1.61 \leq 3, \text{ for } 1\text{g SAR}$$

Thus SAR for this device is not required.

**Step 2-1) SAR test exclusion thresholds for 100MHz to 1500MHz at test separation distances  $>$  50 mm = N/A**

$$[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$$

**Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separation distances  $>$  50 mm = N/A**

$$[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$$