

Standalone SAR test exclusion considerations

December 18, 2014

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Min. transmitting frequency = 2480 MHz

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Min. test separation distance = 5 mm

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Max. power with turn-up tolerance = 8.00 dBm = 7 mW

Typical Power: 6.00 dBm \pm 2.00 dB

Measured Output Power: 7.93 dBm

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

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

= $[7.00 / 5] \cdot [\sqrt{2.48}]$

= **2.20** ≤ 3 , for 1g SAR

Thus SAR for this device is not required.

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

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