

Standalone SAR test exclusion considerations

December 8, 2015

- Min. transmitting frequency = 2480 MHz
- Min. test separation distance = 30 mm
- Max. power with turn-up tolerance = 7.90 dBm = 7 mW
 - Typical Power: 5.90 dBm ± 2.00 dB
 - Measured Average Power: 7.76 dBm

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

= [7.00 / 30] * [√ 2.48]

= **0.37** ≤ 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 separation distances > 50 mm = **N/A**

[Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW

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

[Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW