

Standalone SAR test exclusion considerations

January 5, 2013

- Min. transmitting frequency = $\frac{2402}{1}$ MHz
- Min. test separation distance = $\frac{200}{1}$ mm
- Max. power with turn-up tolerance = $\frac{7.00}{1}$ dBm = $\frac{5.02}{1}$ mW
- Typical Power : $\frac{5.00}{1}$ dBm \pm $\frac{2.00}{1}$ dB
- Measured Power : $\frac{4.07}{1}$ dBm

Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances \leq 50 mm = N/A
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)]

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) \cdot (f(MHz)/150)] mW

Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separation distances $>$ 50 mm = Used
[Threshold at 50 mm in step 1) + (test separation distance - 50 mm) \cdot 10] mW
= 0.16 + 150 \cdot 10
= **1500.16** mW

SAR Exclusion Treshold condition 1500.16 mW $>$ Max. power with turn-up tolerance 5.02 mW

The SAR evaluation is not required according to the above condition.