

Standalone SAR test exclusion considerations

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- Min. transmitting frequency = 2480 MHz
- Min. test separation distance = 5 mm
- Max. power with turn-up tolerance = -8.50 dBm = 0.141 mW
Typical Power: -9.50 dBm \pm 1.00 dB
Measured Output Power: -8.99 dBm

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

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

$$= [0.14 / 5] * [\sqrt{2.48}]$$

$$= 0.04 \leq 3, \text{ for } 1\text{g SAR}$$

Thus SAR for this device is not required.

Step 2-1) SAR test exclusion thresholds for 100MHz to 1500MHz at test 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

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