

Standalone SAR test exclusion considerations

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- Transmitting frequency = 2441 MHz
- Min. test separation distance = 5 mm
- Max. power with turn-up tolerance = 2.50 dBm = 1.78 mW
- Max Target Power : 2.50 dBm
- Measured Average Power: 2.12 dBm

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

$$\begin{aligned}
 & [(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \\
 & = [1.78 / 5] \cdot [\sqrt{2.441}] \\
 & = 0.56 \leq 3, \text{ for 1g SAR}
 \end{aligned}$$

[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

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