

Standalone SAR test exclusion considerations

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- Transmitting frequency = **2480** MHz
- Min. test separation distance = **5** mm
- Max. power with turn-up tolerance = **4.50** dBm = **3** mW
- Max Target Power : **4.50** dBm
- Measured Average Power: **3.17** dBm

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

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

$$= [3.00 / 5] * [\sqrt{ 2.48 }]$$

$$= \text{0.94} \leq 3, \text{ for 1g SAR}$$

[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

$$[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$$

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

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