

## Standalone SAR test exclusion considerations

January 17, 2013

- Min. transmitting frequency = **928** MHz
- Min. test separation distance = **50** mm [Please refer to internal photo for the distance.](#)
- Max. power with turn-up tolerance = **24.00** dBm = **252** mW
  - Typical Power: **23.00** dBm ± **1.00** dB
  - Measured Power: **23.61** dBm

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

$$\begin{aligned} & [(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \\ & = [ 252.00 / 50 ] * [ \sqrt{ 0.928 } ] \\ & = **4.86** \leq 7.5, \text{ for } 10\text{g extrmity SAR} \end{aligned}$$

**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****

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