

Standalone SAR test exclusion considerations(BT LE)

January 29, 2015

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- Min. transmitting frequency = 2480 MHz

- Min. test separation distance = 5 mm

- Max. power with turn-up tolerance = -14.50 dBm = 0.035 mW

Typical Power: -15.50 dBm ± 1.00 dB

Measured Output Power: -14.96 dBm
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Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm = Used

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

= [0.04 / 5] * [√ 2.48]

= 0.01 ≤ 3, 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 [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW

Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separationn distances > 50 mm = N/A [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW



Standalone SAR test exclusion considerations(BT)

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- Min. transmitting frequency = 2480 MHz

- Min. test separation distance = 5 mm

- Max. power with turn-up tolerance = -10.50 dBm = 0.089 mW

Typical Power: -11.50 dBm ± 1.00 dB

Measured Output Power: -10.81 dBm
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Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm = Used

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

= [0.09 / 5] * [√ 2.48]

= 0.03 ≤ 3, 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 [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW

Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separationn distances > 50 mm = N/A [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW