

Standalone SAR test exclusion considerations(2402~2427MHz)

August 19, 2015

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- Transmitting frequency = 2480 MHz

- Min. test separation distance = 5 mm

- Max. power with turn-up tolerance = -1.00 dBm = 0.79 mW

Typical Power: -2.00 dBm ± 1.00 dB

Measured Average Power: -1.11 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)]

= [0.79 / 5] * [√ 2.48]

= 0.25 ≤ 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(2428~2454MHz)

August 19, 2015

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- Transmitting frequency = 2480 MHz

- Min. test separation distance = 5 mm

- Max. power with turn-up tolerance = 0.50 dBm = 1.12 mW

Typical Power: -0.50 dBm ± 1.00 dB

Measured Average Power: 0.38 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)]

= [1.12 / 5] * [√ 2.48]

= 0.35 ≤ 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(2455~2480MHz)

August 19, 2015

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- Transmitting frequency = 2480 MHz

- Min. test separation distance = 5 mm

- Max. power with turn-up tolerance = 1.00 dBm = 1.26 mW

Typical Power: 0.00 dBm ± 1.00 dBm

Measured Average Power: 0.89 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)]

= [1.26 / 5] * [√ 2.48]

= 0.40 ≤ 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 separation distances > 50 mm = N/A [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW