

Standalone SAR test exclusion considerations

February 15, 2016

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- Device category = ☐ Portable device

☑ Mobile device

☑ Single Transmitting
- Transmitting mode =
                                                   ☐ Simultaneous Transmitting
- Max. transmitting frequency =
                                  2480
                                          MHz
- Min. test separation distance =
                                    200 mm
- Max. Antenna Gain =
                           -0.1 dBi
- Max. power with turn-up tolerance =
                                      3.50 	 dBm =
                                                                    ( Typical Power =
                                                                                            Max. 3.50 dBm )
                                                              mW
Note. Bluetooth(1Mbps,2Mbps,3Mbps)
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KDB 447498 D01 clasue 4.3.1 Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separationn distances > 50 mm

[Threshold at 50 mm + (test separation distance - 50 mm) X 10] mW

 $= [0.02 + (200 \text{mm} - 50 \text{mm} \times 10)] = 1500$

Note. The calculation result was rounded to one decimal place for comparison.

→ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.

Maximum Permissible Exposure(MPE) evaluation for mobile device

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S = P G / (4 R^2 \pi), mW/cm ^2 S = Maximum power density <math>R = Maximum power with turn-up tolerance <math>R = Maximum power minimum power minim
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 $= 0.000447 \text{ mW/cm}^2$

Conclusion: The exposure condition of this device is compliant with FCC rules.

The limit for maximum permissible exposure = 1.000000 mW/cm²