

Standalone SAR test exclusion considerations(Bluetooth)

December 15, 2017

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- Device category = \square Portable device

☑ Mobile device

    ✓ Single Transmitting

- Transmitting mode =
                                                       ☐ Simultaneous Transmitting
- Max. transmitting frequency =
                                     2480
                                             MH<sub>7</sub>
- Min. test separation distance =
                                       200
                                             mm
- Max. Antenna Gain =
                              -0.1 dBi
- Max. power with turn-up tolerance =
                                          2.00
                                                dBm =
                                                                         ( Typical Power =
                                                                                                          2.00 dBm
                                                             1.6
                                                                   mW
                                                                                                  Max.
 Note. Please refer to the operation descriptoin for the max tune-up.
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KDB 447498 D01 clasue 4.3.1 Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separation distances > 50 mm [Threshold at 50 mm + (test separation distance - 50 mm) X 10] mW

 $= [0.01 + (200 \text{mm} - 50 \text{mm} \times 10)] = 1500$

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 gain of the antenna <math>R = Maximum power with turn-up tolerance <math>R = Maximum power gain of the antenna gain of the antenna <math>R = Maximum power gain of the antenna gain of th
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 $= 0.000311 \text{ mW/cm}^2$

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

The limit for maximum permissible exposure = 1.000000 mW/cm²