

## Standalone SAR test exclusion considerations

April 17, 2017

```
- 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 =
                                         3.00
                                               dBm =
                                                                        ( Typical Power =
                                                                                                        3.00 dBm
                                                                 mW
                                                                                                 Max.
 Note. BT(BDR)
```

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

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

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

```
S = P G / (4 R^2 \pi), mW/cm<sup>2</sup> S = Maximum power density G = Numeric power gain of the antenna <math>R = Distance from transmitting antenna
```

 $= 0.000389 \text{ mW/cm}^2$ 

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

The limit for maximum permissible exposure = 1.000000 mW/cm<sup>2</sup>



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- 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
                                                                 mW
                                                                                                Max.
 Note. BT(EDR)
```

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

= [ 0.01 + ( 200mm - 50mm X 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

```
S = P G / (4 R^2 \pi), mW/cm<sup>2</sup> S = Maximum power density G = Numeric power gain of the antenna <math>R = Distance from transmitting antenna
```

 $= 0.000311 \text{ mW/cm}^2$ 

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

The limit for maximum permissible exposure = 1.000000 mW/cm<sup>2</sup>