

Standalone SAR test exclusion considerations

January 20, 2020

```
- Device category = □ Portable device □ Mobile device
- Transmitting mode =
                        ☑ Single Transmitting
                                                 □ Simultaneous Transmitting
- Max. transmitting frequency =
                                 2475
                                         MHz
- Min. test separation distance =
                                   200 mm
- Max. Antenna Gain =
                                dBi
                                                                  ( Typical Power =
                                                                                         Max. 7.00 dBm
- Max. power with turn-up tolerance =
                                     7.00 dBm =
 Note. RF4CE
```

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

```
= [ 0.04 + ( 200mm - 50mm X 10 ) ] = 1500
```

 $0.000806 \, \text{mW/cm}^{2}$

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 ^2 S = Maximum power density <math>R = Maximum power with turn-up tolerance <math>R = Maximum power minimum power with turn-up tolerance <math>R = Maximum power minimum power minim
```

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

The limit for maximum permissible exposure = 1.000000 mW/cm²



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January 20, 2020

```
- Device category = □ Portable device □ Mobile device
- Transmitting mode =
                        ☑ Single Transmitting
                                                 □ Simultaneous Transmitting
- Max. transmitting frequency =
                                 2480
                                         MHz
- Min. test separation distance =
                                   200
                                       mm
- Max. Antenna Gain =
                                dBi
- Max. power with turn-up tolerance =
                                                                 ( Typical Power =
                                                                                         Max. 7.00 dBm
                                     7.00 dBm =
 Note. BLE
```

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