

## Standalone SAR test exclusion considerations

March 17, 2017

```
- Device category = ✓ Portable device
                                        ☐ Mobile device
- Transmitting mode =

☑ Single Transmitting
                                                   ☐ Simultaneous Transmitting
- Max. transmitting frequency =
                                  2480
                                           MHz
- Min. test separation distance =
                                     30
                                          mm
- Max. Antenna Gain =
                                  dBi
- Max. power with turn-up tolerance =
                                      11.50 dBm =
                                                        14.2 mW
                                                                     ( Typical Power =
                                                                                            Max. 11.50 dBm
Note. Bluetooth _ Module0
       It is applied as the highest tune up power among BDR, EDR
```

## KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[ ( max. power of channel, including tune-up tolerance, mW ) / ( min. test separation distance, mm ) ]  $\cdot$  [  $\sqrt{f(GHz)}$  ]  $\leq$  3.0 for 1g SAR and  $\leq$  7.5 for 10g extremity SAR = [ ( 14.2mW / 30mm ) ] X [  $\sqrt{2.48GHz}$  ] = 0.7

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.



## Standalone SAR test exclusion considerations

March 17, 2017

```
- Device category = ✓ Portable device
                                        ☐ Mobile device
- Transmitting mode =

☑ Single Transmitting
                                                   ☐ Simultaneous Transmitting
- Max. transmitting frequency =
                                  2480
                                          MHz
- Min. test separation distance =
                                     30
                                          mm
- Max. Antenna Gain =
                           1.91 dBi
- Max. power with turn-up tolerance =
                                      17.00 dBm =
                                                                     ( Typical Power =
                                                                                            Max. 17.00 dBm
                                                        50.2 mW
Note. Bluetooth _ Module1
       It is applied as the highest tune up power among BDR, EDR
```

KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[ ( max. power of channel, including tune-up tolerance, mW ) / ( min. test separation distance, mm ) ]  $\cdot$  [  $\sqrt{f(GHz)}$  ]  $\leq$  3.0 for 1g SAR and  $\leq$  7.5 for 10g extremity SAR = [ ( 50.2mW / 30mm ) ] X [  $\sqrt{2.48GHz}$  ] = 2.6

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.



## Standalone SAR test exclusion considerations

March 17, 2017

```
- Device category = ✓ Portable device
                                         ☐ Mobile device
- Transmitting mode =

☑ Single Transmitting
                                                     ☐ Simultaneous Transmitting
- Max. transmitting frequency =
                                   2480
                                            MHz
- Min. test separation distance =
                                      30
                                           mm
- Max. Antenna Gain =
                                  dBi
- Max. power with turn-up tolerance =
                                        6.50
                                               dBm =
                                                                          Typical Power =
                                                                                               Max.
                                                                                                      6.50 dBm
Note. Bluetooth LE
       It is applied as the highest tune up power among low/middle/high Channel.
```

KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[ ( max. power of channel, including tune-up tolerance, mW ) / ( min. test separation distance, mm ) ]  $\cdot$  [  $\sqrt{f(GHz)}$  ]  $\leq$  3.0 for 1g SAR and  $\leq$  7.5 for 10g extremity SAR = [ ( 4.5mW / 30mm ) ] X [  $\sqrt{2.48GHz}$  ] = 0.2

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.