

## Standalone SAR test exclusion considerations

| RF feature | Mode          | Transmitting Frequency(MHz) | Test separation distance (mm) | ANT Gain (dBi) | Max. power with tune-up tolerance (dBm) <sup>Note1</sup> | Max. power with tune-up tolerance (mW) | Power thresholds | SAR test exclusion thresholds |
|------------|---------------|-----------------------------|-------------------------------|----------------|----------------------------------------------------------|----------------------------------------|------------------|-------------------------------|
| BT         | BDR(1 Mbps)   | 2 402.00                    | 5.0                           | -0.76          | -4.50                                                    | 0.354 8                                | 0.11             | 3.00                          |
| BT         | BDR(1 Mbps)   | 2 480.00                    | 5.0                           | -0.76          | 8.50                                                     | 7.079 5                                | 2.23             | 3.00                          |
| BT         | EDR(2,3 Mbps) | 2 402.00                    | 5.0                           | -0.76          | -6.50                                                    | 0.223 9                                | 0.07             | 3.00                          |
| BT         | EDR(2,3 Mbps) | 2 480.00                    | 5.0                           | -0.76          | 6.50                                                     | 4.466 8                                | 1.41             | 3.00                          |
| WLAN       | 802.11b       | 2 412.00                    | 5.0                           | -0.76          | 6.50                                                     | 4.466 8                                | 1.39             | 3.00                          |
| WLAN       | 802.11b       | 2 462.00                    | 5.0                           | -0.76          | 9.50                                                     | 8.912 5                                | 2.80             | 3.00                          |
| WLAN       | 802.11g       | 2 462.00                    | 5.0                           | -0.76          | 9.50                                                     | 8.912 5                                | 2.80             | 3.00                          |
| WLAN       | 802.11n(HT20) | 2 462.00                    | 5.0                           | -0.76          | 9.50                                                     | 8.912 5                                | 2.80             | 3.00                          |
|            |               |                             |                               |                |                                                          |                                        |                  |                               |
|            |               |                             |                               |                |                                                          |                                        |                  |                               |

Note1. Please refer to the operation description for Max tune-up power.

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

[ ( max. power of channel, including tune-up tolerance, mW ) / ( min. test separation distance, mm ) ] · [ √f(GHz) ] ≤ 3.0 for 1g SAR and ≤ 7.5 for 10g extremity SAR

#### Sample Calculation

$$= [ ( 0.3548\text{mW} / 5\text{mm} ) ] \times [ \sqrt{2.402\text{GHz}} ] = 0.11$$

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

**Conclusion :** SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required