

Standalone SAR test exclusion considerations: **LE**

Date: February 10, 2020

| RF feature | Mode        | Transmitting Frequency(MHz) | Test separation distance (mm) <sup>Note2</sup> | ANT Gain (dBi) | Max. power with tune-up tolerance (dBm) <sup>Note1</sup> | Max. power with tune-up tolerance (mW) | Power thresholds (mW) | SAR test exclusion thresholds(mW) at separation distance of 5 mm |
|------------|-------------|-----------------------------|------------------------------------------------|----------------|----------------------------------------------------------|----------------------------------------|-----------------------|------------------------------------------------------------------|
| BT         | LE(1,2Mbps) | 2480.00                     | 5.0                                            | 1.00           | -4.50                                                    | 0.3548                                 | 0.11                  | 7.50                                                             |
|            |             |                             |                                                |                |                                                          |                                        |                       |                                                                  |
|            |             |                             |                                                |                |                                                          |                                        |                       |                                                                  |
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Note1. Please refer to the operation description for Max tune-up.

Note2.

**KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances  $\leq 50$  mm**

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

$$= [ ( 0.3548\text{mW} / 5\text{mm} ) ] \times [ \sqrt{2.48\text{GHz}} ] = 0.11$$

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