

# RF Exposure Evaluation Statement

**Product Name:** TWS Bluetooth earphones

**Model No.:** In2011, In2011L

**FCC ID:** RDR-IN2011L

## 1.1 RF Exposure Compliance Requirement

### 1.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 1.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 1.1.3 EUT RF Exposure

| Operational Mode: BDR (GFSK worst case)                        |   |                        |                       |      |                  |                     |
|--|---|------------------------|-----------------------|------|------------------|---------------------|
| Channel  | Maximum Peak Conducted Output Power (dBm) | Tune up tolerance (dB) | Maximum tune-up Power |      | Calculated value | Exclusion threshold |
|  |   |                        | (dBm)                 | (mW) |                  |                     |
| 2402MHz  | 7.87                                      | $\pm 1$                | 8.87                  | 7.71 | 2.39             | 3.0                 |
| 2441MHz  | 2.45                                      | $\pm 1$                | 3.45                  | 2.21 | 0.69             |                     |
| 2480MHz  | 2.61                                      | $\pm 1$                | 3.61                  | 2.30 | 0.72             |                     |
| Conclusion: the calculated value $\leq 3.0$ , SAR is exempted. |   |                        |                       |      |                  |                     |