

# RF Exposure Evaluation Statement

**Product Name:** Funcl AI

**Model No.:** H18E, H18EXX

**FCC ID:** 2ALVIH18E

## 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(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: EDR ( 8-DPSK worst case )                    |   |                        |                       |      |                  |                     |
|--|---|------------------------|-----------------------|------|------------------|---------------------|
| Channel  | Maximum Peak Conducted Output Power (dBm) | Tune up tolerance (dB) | Maximum tune-up Power |      | Calculated value | Exclusion threshold |
|  |   |                        | (dBm)                 | (mW) |                  |                     |
| 2402MHZ  | 8.02                                      | $\pm 1$                | 9.02                  | 7.98 | 2.47             | 3.0                 |
| 2441MHz  | 7.19                                      | $\pm 1$                | 8.19                  | 6.59 | 2.06             |                     |
| 2480MHz  | 6.34                                      | $\pm 1$                | 7.34                  | 5.42 | 1.71             |                     |
| Operational Mode: BLE ( worst case )                           |   |                        |                       |      |                  |                     |
| 2402   | 7.47                                      | $\pm 1$                | 8.47                  | 7.03 | 2.18             | 3.0                 |
| 2442   | 6.35                                      | $\pm 1$                | 7.35                  | 5.43 | 1.70             |                     |
| 2480   | 5.40                                      | $\pm 1$                | 6.40                  | 4.37 | 1.37             |                     |
| Conclusion: the calculated value $\leq 3.0$ , SAR is exempted. |   |                        |                       |      |                  |                     |