

# RF Exposure Evaluation Statement

**Product Name:** RGBW STRING LIGHT

**Model No.:** RE-RGBWA, RE-RGBWB, RE-SOL, RE-DM

**FCC ID:** 2A3K6JCD2021RE

## 1 RF EXPOSURE COMPLIANCE REQUIREMENT

### 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.

### 1.2 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

### 1.3 EUT RF EXPOSURE

The EUT H-field strength of the prototype is far less than the evaluation limit of human exposure to radio-frequency (RF) radiation. So no SAR test is required

**Note:** Refer to project No. BLA-EMC-202109-A9601 for EUT test max H-field strength.