

# FCC RF Exposure

EUT Description: **Key Fob**

Model No.: **IEF1**

FCC ID: **2AYD7-IEF1**

## 1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 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:

Result =  $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in mW

D = Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

|                                                                                                                                   | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power mW | Min test separation distance mm | Result | Limit | SAR Test Exclusion |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|----------------------|---------------------------------|--------|-------|--------------------|
| EDR                                                                                                                               | -6.429             | -6 $\pm$ 1(-5)      | 0.316                | 5                               | 0.098  | 3.0   | Pass               |
| Note:<br>PK Output power = conducted power.<br>Conducted power see the test report <b>HK2102250447-E</b><br>antenna gain = 0.5dBi |                    |                     |                      |                                 |        |       |                    |

Per KDB 447498 D01, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.098 which is  $\leq 3$ , SAR testing is not required.

Note: Exclusion Thresholds Results =  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Distance = 5mm