

# FCC RF Exposure

EUT Description: Wireless Microphone System

Model No.: RU-S16, THX-01, THX-00, RU-D230, RU-F26, THX-02, THX-04, THX-E0

FCC ID: 2BAVB-RUS16

## 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:

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

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

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm <sup>2</sup> )	SAR Test Exclusion
589.850	-9.68	-9 ± 1	-8/0.158	5	0.091	3.0	Pass

**Note:**  
PK Output power= conducted power.  
Conducted power see the test report **HK2303210962-E**, antenna gain=3dBi

Per KDB 447498 D01, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.091 which is  $\leq 3$ , RF Exposure 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