

# FCC RF Exposure

EUT Description: Microphone

Model No.: Y5

FCC ID: 2BF8Y-Y5

## 1. Limits

According to KDB 447498 D04 General RF Exposure Guidance v01 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:

$[(\text{max power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}$

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

2402MHz:

$$\text{EIRP(dBm)} = 79.39(\text{dBuV/m}) - 95.2 = -15.81(\text{dBm})$$

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit	SAR Test Exclusion
2.4GTX	-15.81	-15±1(-14)	0.040	5	0.012	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report HK2404161811-E, antenna gain=-0.58dBi

Per KDB 447498 D04, 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 0.012 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