

# RF Exposure Evaluation

## FCC ID: 2A/GWYU-01

### 1. Client Information

**Applicant** : Shenzhen Kairuixiang Electronics Co.,Ltd.  
**Address** : Room 8029, F8, Saige Square, Huaqiang North, Futian District, Shenzhen City, China  
**Manufacturer** : Shenzhen Kairuixiang Electronics Co.,Ltd.  
**Address** : Room 8029, F8, Saige Square, Huaqiang North, Futian District, Shenzhen City, China

### 2. General Description of EUT

<b>EUT Name</b>	: Anti lost of Bluetooth	
<b>Models No.</b>	: YU-01, YU-02, YU-03, YU-05, YU-06, YU-07, YU-08, YU-09	
<b>Model Difference</b>	: All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.	
<b>Product Description</b>	Operation Frequency: BLE:2402~2480MHz	
	Number of Channel:	BLE:40 Channels
	Max Peak Output Power:	GFSK:-0.816 dBm
	Antenna Gain:	-1 dBi PCB Antenna
	Modulation Type:	1Mbps(GFSK)
<b>Power Supply</b>	: DC power by Lithium battery.	
<b>Power Rating</b>	: DC 3V by Lithium battery.	
<b>Connecting I/O Port(S)</b>	: Please refer to the User's Manual	

#### Note:

More test information about the EUT please refer the RF Test Report.

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2.

**Calculation:**

Test separation: 5mm					
BLE Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.816	±0.5	0.930	0.288	3.0
2.442	-1.384	±0.5	0.816	0.255	3.0
2.480	-2.011	±0.5	0.706	0.222	3.0

**So standalone SAR measurements are not required.**