

# RF Exposure Evaluation

## FCC ID: 2AMWY-B8

### 1. Client Information

<b>Applicant</b>	:	Shenzhen Pincun Digital Technology Co., LTD.
<b>Address</b>	:	5C038, Exchange Square, 2 South China City, Pinghu Street, Longgang District, Shenzhen, Guangdong, China. 518111
<b>Manufacturer</b>	:	Shenzhen Pinyu Electronics Co., Ltd.
<b>Address</b>	:	No. 169, Xinmu Road, Xinmu Villiage, Pinghu Street, Longgang Dist., Shenzhen, Guangdong, China

### 2. General Description of EUT

<b>EUT Name</b>	:	Headphone
<b>Model(s) No.</b>	:	B8, P26, PK-1, P16, P20, B9, B9-X, B6, B16, B20, B10, B12, BT-08, B21, B26, B26-X, B29, LUCKY CAT, N1, ANC-02, ANC-06, E3, E5, E6, BG-1, BG-2, BG-3
<b>Model Different</b>	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance.
<b>Sample ID</b>	:	20210113-04-1#& 20210113-04-2#
<b>Product Description</b>	:	Operation Frequency: Bluetooth 4.2: 2402MHz~2480MHz
		Number of Channel: Bluetooth 4.2: 79 channels
		RF Output Power: Bluetooth: 4.275dBm( $\pi$ /4-DQPSK)
		Antenna Gain: 1.01dBi PCB Antenna
		Modulation Type: GFSK, $\pi$ /4-DQPSK
		Bit Rate of Transmitter: 1/2Mbps
<b>Power Supply</b>	:	Input: DC 5V. DC 3.7V by 1000mAh Li-ion battery.
<b>Software Version</b>	:	VER1.0
<b>Hardware Version</b>	:	VER1.0
<b>Remark:</b> The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.		

**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 v06.

- (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:

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

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

## 2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.786	3±1	4	2.512	0.779	3.0
2.441	3.463	3±1	4	2.512	0.785	3.0
2.480	3.404	3±1	4	2.512	0.791	3.0
Bluetooth Mode (π/4-QPSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.661	4±1	5	3.162	0.980	3.0
2.441	4.275	4±1	5	3.162	0.988	3.0
2.480	4.167	4±1	5	3.162	0.996	3.0

## Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

-----END OF REPORT-----