

RF Exposure Evaluation

FCC ID: 2AMWY-B27

1. Client Information

Applicant	:	Shenzhen PINCUN digital technology Co., LTD.
Address	:	5C038, Exchange Square, 2 South China City, Pinghu Street, Longgang District, Shenzhen, Guangdong, China. 518111
Manufacturer	:	Shenzhen Pinyu Electronics Co., Ltd.
Address	:	No. 169, Xinmu Road, Xinmu Villiage, Pinghu Street, Longgang Dist., Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	:	Headphone	
Model(s) No.	:	B27, P28S, P80S, P20S, P26, PK-1, P16, P20, B9, B9-X, B8, B6, B16, B20, B10, B12, BT-08, B21, B25, B26, B26-X, B29, LUCKY CAT, N1, ANC-02, ANC-06, E2, E3, E5, E6, BG-1, BG-2, BG-3, P80X, P28X	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance.	
Product Description	:	Operation Frequency:	Bluetooth V5.0(BT): 2402~2480 MHz
		Number of Channel:	Bluetooth: 79 Channels
		Max Peak Output Power:	Bluetooth: 5.895dBm(8-DPSK)
		Antenna Gain:	-0.58dBi PCB Antenna
		Modulation Type:	GFSK: 5.836dBm π /4-DQPSK: 5.862dBm 8-DPSK: 5.895dBm
Power Supply	:	USB Input: 5V1A DC 3.7V by 1000mAh Li-ion battery	
Software Version	:	ATS3009_AIB_B27_V1.2	
Hardware Version	:	VER1.13	

Remark: The antenna gain and adapter provided by the applicant, the adapter and verified for the RF conduction test 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 ≤ 5 mm are determined by:

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

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $\sqrt{f(\text{GHz})}$ $\leq 7.5.0$ 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	5.836	5±1	6.0	3.981	1.234	3.0
2.441	5.544	5±1	6.0	3.981	1.244	3.0
2.480	5.022	5±1	6.0	3.981	1.254	3.0
Bluetooth Mode (π/4-DQPSK)						
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	5.862	5±1	6.0	3.981	1.234	3.0
2.441	5.562	5±1	6.0	3.981	1.244	3.0
2.480	4.995	4±1	5.0	3.162	0.996	3.0
Bluetooth Mode (8-DPSK)						
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	5.895	5±1	6.0	3.981	1.234	3.0
2.441	5.636	5±1	6.0	3.981	1.244	3.0
2.480	5.118	5±1	6.0	3.981	1.254	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.

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