

RF Exposure Evaluation

FCC ID: 2AMWY-B29

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.
Manufacturer	:	Shenzhen Shenzhan Electronics CO., LTD.
Address	:	Factory: Building 6, No.1 Xuri East Road, Shanxia community, Pinghu, Longgang, Shenzhen, Guangdong, China, 518111

2. General Description of EUT

EUT Name	:	Wireless Headphone	
Model(s) No.	:	B29, Lucky Cat	
Model Different	:	All PCB boards and circuit diagrams are the same, the only difference is the name.	
Product Description	Operation Frequency:	Bluetooth V5.0(BT): 2402~2480 MHz	
	Number of Channel:	Bluetooth: 79 Channels	
	Max Peak Output Power:	Bluetooth: 8.641 dBm(8-DQPSK)	
	Antenna Gain:	0.5 dBi PCB Antenna	
	Modulation Type:	GFSK(1Mbps) π/4-DQPSK(2Mbps) 8-DPSK(3Mbps)	
Power Rating	:	Input: DC5V DC 3.7V by 1000mAh Li-ion battery	
Software Version	:	V1.0	
Hardware Version	:	V1.0	
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:
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm						
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	7.892	7±1	8	6.310	1.956	3.0
2.441	7.961	7±1	8	6.310	1.972	3.0
2.480	7.440	7±1	8	6.310	1.987	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	8.382	8±1	9	7.943	2.462	3.0
2.441	8.273	8±1	9	7.943	2.482	3.0
2.480	7.814	7±1	8	6.310	1.987	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	8.641	8±1	9	7.943	2.462	3.0
2.441	8.512	8±1	9	7.943	2.482	3.0
2.480	8.066	8±1	9	7.943	2.502	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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