RF Exposure Evaluation

FCC ID: 2A4PF-P2961

1. Client Information

Applicant	:	Shenzhen Jinhongxiang Electronics Co., Ltd.
Address	:	Rm 4B16, Block B, Longsheng Accessories City, Huafa North Rd.Huaqiang North St., Futian District SZ., China
Manufacturer	:	Guangdong pangpai Technology Co., Ltd.
Address	:	133-147, Area B, Maoxing textile park, Gurao town, Chaoyang district, Shantou city, Guangdong province, China

2. General Description of EUT

EUT Name	:	Bluetooth headset	
Model(s) No.	:	P2961, P959max, F18, W55, VJE902, P3960, P3961, P3965, P3967, P6066, P2969	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is color.	
Product Description	:	Operation Frequency:	Bluetooth 5.0(BR+EDR): 2402MHz~2480MHz
		Number of Channel:	79 channels
		Antenna Gain:	6.4dBi PCB Antenna
		Modulation Type:	GFSK(1Mbps) π/4-DQPSK(2Mbps) 8-DPSK(3Mbps)
Power Supply	:	INPUT: DC 5V DC 3.7V 200mAh 0.74Wh Rechargeable Li-ion battery	
Software Version	:	V1.0	
Hardware Version	:	V1.0	
Remark: 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.

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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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤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	-4.461	-4±1	-3	0.501	0.155	**3.0**
2.441	-4.309	-4±1	-3	0.501	0.157	**3.0**
2.480	-4.446	-4±1	-3	0.501	0.158	**3.0**
Bluetooth Mode (Pi/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	-2.579	-2±1	-1	0.794	0.246	**3.0**
2.441	-2.318	-2±1	-1	0.794	0.248	**3.0**
2.480	-2.421	-2±1	-1	0.794	0.250	**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	-2.257	-2±1	-1	0.794	0.246	**3.0**
2.441	-2.138	-2±1	-1	0.794	0.248	**3.0**
2.480	-2.071	-2±1	-1	0.794	0.250	**3.0**

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 THE REPORT-----