RF Exposure Evaluation
FCC ID: 2A35M-AMX-131

1. Client Information

Applicant	:	Shenzhen Aimeixing Technology Co.,Ltd.
Address	:	4F,Block 3,Area A,No2 Yanhe Road, Xinsheng Community, Longgang District, Shenzhen, China
Manufacturer	:	Shenzhen Aimeixing Technology Co.,Ltd.
Address		4F,Block 3, Area A,No2 Yanhe Road, Xinsheng Community, Longgang District, Shenzhen, China

2. General Description of EUT

EUT Name	:	AMX-131	
Model(s)	:	AMX-131, AMX-131A, AMX-132, AMX-133, AMX-134, AMX-Y89	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is the model name and appearance.	
Brand Name	:	Gepud	
Product Description	:	Operation Frequency:	Bluetooth V5.0(BT): 2402~2480 MHz
		Number of Channel:	Bluetooth: 79 Channels
		Max Peak Output Power:	Bluetooth: 0.412 dBm
		Antenna Gain:	2.5dBi Ceramic Antenna
		Modulation Type:	GFSK π /4-DQPSK 8-DPSK
Power Supply (Earphone)		Input: DC 5V DC 3.7V by 40mAh Li-ion battery	
Power Supply (Charger Box)		Input: DC 5V DC 3.7V by 400mAh Li-ion battery	
Software Version	:	5.0	
Hardware Version	:	N/A	
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.

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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	0.412	0±1	1	1.259	0.390	**3.0**
2.441	-0.359	0±1	1	1.259	0.393	**3.0**
2.480	-1.031	-1±1	0	1.000	0.315	**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	0.39	0±1	1	1.259	0.390	**3.0**
2.441	-0.37	0±1	1	1.259	0.393	**3.0**
2.480	-1.045	-1±1	0	1.000	0.315	**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	0.369	0±1	1	1.259	0.390	**3.0**
2.441	-0.38	0±1	1	1.259	0.393	**3.0**
2.480	-1.053	-1±1	0	1.000	0.315	**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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