RF Exposure Evaluation

FCC ID: 2BDW8-BAM1

1. Client Information

Applicant	:	Micheon, INC
Address	:	14500 E 14th #3139, San Leandro, CA 94578, United States
Manufacturer	:	Shenzhen Pincun Digital Technology Co., Ltd.
Address	:	Rm 2407, Building 11, Phase ll, Tian'An Yungu Industrial Park, Gangtou community, Bantian, Longgang, Shenzhen, Guangdong, China 518129

2. General Description of EUT

EUT Name	:	wireless headset	
Model(s) No.	:	BAM 1, BAM 2, BAM 3, BAM 4, BAM 5	
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is that model name.	
Product Description	:	Operation Frequency:	Bluetooth V5.1: 2402MHz~2480MHz
		Number of Channel:	Bluetooth 5.1: 79 channels
		Antenna Gain:	-0.58dBi PCB Antenna
		Modulation Type:	GFSK, Pi/4-DQPSK, 8-DPSK
		Bit Rate of Transmitter:	1/2/3Mbps
Power Supply	:	Input: DC 5V/1A	
Li-ion Polymer Battery	:	3.7V by 300mAh Rechargeable Li-ion battery	
Software Version	:	V1.0	
Hardware Version	:	V2.2	
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	4.242	4±1	5	3.162	0.980	**3.0**
2.441	3.128	3±1	4	2.512	0.785	**3.0**
2.480	2.299	2±1	3	1.995	0.628	**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	4.595	5±1	6	3.981	1.234	**3.0**
2.441	3.513	4±1	5	3.162	0.988	**3.0**
2.480	2.762	3±1	4	2.512	0.791	**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	4.811	5±1	6	3.981	1.234	**3.0**
2.441	3.678	4±1	5	3.162	0.988	**3.0**
2.480	3.088	3±1	4	2.512	0.791	**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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