RF Exposure Evaluation

FCC ID: 2BBLO-YB035

1. Client Information

Applicant	:	Guangdong Baoli Electronic Co., Ltd.
Address	:	3F, Building 6, Donghua Manufacturing Park, No.57 Jinshan Road, Chashan, Dongguan City, Guangdong Province, China
Manufacturer	:	Guangdong Baoli Electronic Co., Ltd.
Address	:	3F, Building 6, Donghua Manufacturing Park, No.57 Jinshan Road, Chashan, Dongguan City, Guangdong Province, China

2. General Description of EUT

EUT Name	:	MICKEY MOUSE COLLECTION TWS BLUETOOTH EARPHONES	
Model(s) No.	:	YB035	
Model Difference	:	----	
Product Description	:	Operation Frequency:	Bluetooth V5.3: 2402MHz~2480MHz Bluetooth 5.3(BLE): 2402MHz~2480MHz
		Number of Channel:	Bluetooth 5.3: 79 channels Bluetooth 5.3(BLE):40 channels
		Antenna Gain:	1.75dBi Ceramic Antenna
		Modulation Type:	GFSK, Pi/4-DQPSK Bluetooth LE:1/2Mbps
		Bit Rate of Transmitter:	1/2Mbps
Power Rating (Charging Box)	:	Input: DC 5V/1A DC 3.7V by 250mAh Rechargeable Li-ion battery	
Power Rating (Earphone)	:	DC 3.7V by 30mAh Rechargeable Li-ion battery	
Software Version	:	5.3	
Hardware Version	:	V1	
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	2.221	2±1	3	1.995	0.618	**3.0**
2.441	2.52	3±1	4	2.512	0.785	**3.0**
2.480	2.805	3±1	4	2.512	0.791	**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	3.212	3±1	4	2.512	0.779	**3.0**
2.441	3.365	3±1	4	2.512	0.785	**3.0**
2.480	3.545	4±1	5	3.162	0.996	**3.0**
Bluetooth LE Mode(1Mbps)						
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	1.846	2±1	3	1.995	0.618	**3.0**
2.440	2.2	2±1	3	1.995	0.623	**3.0**
2.480	2.279	2±1	3	1.995	0.628	**3.0**
Bluetooth LE Mode(2Mbps)						
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	2.092	2±1	3	1.995	0.618	**3.0**
2.440	2.556	3±1	4	2.512	0.785	**3.0**
2.480	2.664	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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