RF Exposure Evaluation

FCC ID: 2ACG3TRX-1011

1. Client Information

Applicant	:	HANGZHOU YANGCHANG I&E Co., LTD
Address	:	A12A05 Room, NO.39, Blue Ocean International Times Building 1, Yile Road, Hangzhou City, Zhejiang Province, China
Manufacturer	:	East West Life Technology CO., LTD
Address	:	6/F, Fuyuan Industry and commerce Building Chentian, hangcheng Industrial Area, Xixiang Town Bao'an District, Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	:	Bluetooth Speaker	
Models No.	:	TRX-1011	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: 2402MHz~2480MHz	
		Number of Channel:	Bluetooth:79Channels
		Max Peak Output Power:	8-DPSK: 0.439 dBm (Conducted Power)
		Antenna Gain:	0 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π/4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable DC power by Li-ion Battery	
Power Rating	:	DC 5.0V by USB cable DC 3.7V Li-ion Battery 850 mAh	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

More test information about the EUT please refer the RF Test Report.

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MPE Calculations

1. **FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies V05R02.**
   (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≤50 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 for 10-g SAR

   Calculation:
   The maximum power is 0.439 dBm(1.106mW) @2.402GHz
   Separation Distance: 5mm
   For 1-g SAR Result: (1.106mW /5mm) • [$\sqrt{2.402(GHz)}$]= 0.343 <3.0 for 1-g SAR

   So standalone SAR measurements are not required.