RF Exposure Evaluation

FCC ID: 2ACG3M80

1. Client Information

Applicant	:	HANGZHOU YANGCHANG I&E Co.,LTD
Address	:	The A12A05 room of the Blue Ocean International Times Building 1NO.39.Yile Road HangZhou
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	:	Mini speaker	
Models No.	:	M80	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	8-DPSK: -0.885 dBm
		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	
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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SAR Test Exclusion 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≤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:

Bluetooth Mode (GFSK)						
Frequency (GHz)	**Conducted Power (dBm)**	**Ant Gain (dBi)**	**TX Power (mW)**	**Distance (mm)**	**Calculation Value**	**Threshold Value**
2.402	-1.679	0	0.679	5	0.211	**3.0**
2.441	-2.962	0	0.506	5	0.158	**3.0**
2.480	-4.924	0	0.321	5	0.101	**3.0**
Bluetooth Mode (8-DPSK)						
Frequency (GHz)	**Conducted Power (dBm)**	**Ant Gain (dBi)**	**TX Power (mW)**	**Distance (mm)**	**Calculation Value**	**Threshold Value**
2.402	-0.885	0	0.815	5	0.233	**3.0**
2.441	-2.118	0	0.614	5	0.191	**3.0**
2.480	-4.042	0	0.394	5	0.124	**3.0**

So standalone SAR measurements are not required.