Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AJ7Z-BS0112

1. Client Information

Applicant: Ningbo Xinze Electrical Appliance Co., Ltd

Address : Room 1002, Aolisai Haoru Building, No. 468 Taikang Middle Road, South

Commercial Area, Yinzhou, Ningbo, China

Manufacturer : Ningbo Xinze Electrical Appliance Co., Ltd

Address: Room 1002, Aolisai Haoru Building, No. 468 Taikang Middle Road, South

Commercial Area, Yinzhou, Ningbo, China

2. General Description of EUT

EUT Name	1	Bluetooth Multipurpose Speaker				
Models No.	:	BS0112, BS0096, BS0097, BS0020, BS0035, BS0044, BS0012				
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.				
Product Description	VON YOU V	Operation Frequency:	Bluetooth 2.1+EDR: 2402~2480 MHz			
		Number of Channel:	Bluetooth: 79 Channels see Note 2			
		Max Peak Output Power:	Bluetooth: -1.825 dBm(8-DPSK)			
		Antenna Gain:	2 dBi PCB Antenna			
		Modulation Type: GFSK 1Mbps(1 Mbps)				
			π /4-DQPSK(2 Mbps)			
			8-DPSK(3 Mbps)			
Power Supply	:	DC power by USB cable.				
		DC power by Li-ion battery.				
Power Rating	:	DC 5V by USB Cable.				
		DC 3.7V by 400mAh Li-ion Battery.				
Connecting I/O Port(S)	F .	Please refer to the User's Manual				

Note:

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

TB-RF-074-1. 0

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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)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



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2. Calculation:

Test separation: 5mm									
Bluetooth Mode (GFSK)									
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value				
2.402	-3.006	±0.5	0.562	0.174	3.0				
2.441	-4.455	±0.5	0.402	0.126	3.0				
2.480	-3.995	±0.5	0.447	0.141	3.0				
Bluetooth Mode (π /4-DQPSK)									
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value				
2.402	-2.099	±0.5	0.692	0.214	3.0				
2.441	-3.314	±0.5	0.523	0.163	3.0				
2.480	-3.185	±0.5	0.539	0.170	3.0				
nm)	133	Bluetooth Mode (8-DPSK)							
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value				
2.402	-1.825	±0.5	0.737	0.228	3.0				
2.441	-2.931	±0.5	0.571	0.179	3.0				
2.480	-2.621	±0.5	0.614	0.193	3.0				

So standalone SAR measurements are not required.

----END OF REPORT----