Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE144532

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RF Exposure Evaluation FCC ID: 2AE4N-MINIKIN

1. Client Information

Applicant : All Best Technology Limited

Address: No.9, Yincheng 1st Rd., Yincheng Industrial Zone, Xiabian Village,

Chang'an Town, Dongguan City, Guangdong Province, China

Manufacturer : All Best Technology Limited

Address : No.9, Yincheng 1st Rd., Yincheng Industrial Zone, Xiabian Village,

Chang'an Town, Dongguan City, Guangdong Province, China

2. General Description of EUT

EUT Name	:	Portable Bluetooth Speaker				
Models No.	:	Minikin				
Model difference	1	N/A				
Product Description		Operation Frequency: Bluetooth:2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power: -6.212 dBm(GFSK)				
		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 1.48Wh 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.

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 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)]*[$\sqrt{f_{(GHz)}}$] \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:

		Divisto eth Mede	(CECK)		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-6.557	±0.5	0.248	0.077	3.0
2.441	-6.212	±0.5	0.268	0.084	3.0
2.480	-6.674	±0.5	0.241	0.076	3.0
		Bluetooth Mode (7	/4-DQPSK)	THIS IS	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-8.309	±0.5	0.166	0.051	3.0
2.441	-7.128	±0.5	0.217	0.068	3.0
2.480	-8.102	±0.5	0.174	0.055	3.0
73		Bluetooth Mode	(8-DPSK)		NA T
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-7.575	±0.5	0.196	0.061	3.0
2.441	-8.323	±0.5	0.165	0.052	3.0
2.480	-8.233	±0.5	0.169	0.053	3.0

So standalone SAR measurements are not required.