Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE144301

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RF Exposure Evaluation FCC ID: 2ADXM5B103BT

1. Client Information

Applicant: SHENZHEN TEKSUN TECHNOLOGY CO.,LTD

Address : 3F, bldg F7, F518 Idea Land, Baoyuan Road, Xixiang Avenue, Bao' an

District, Shenzhen, China

Manufacturer: SHENZHEN TEKSUN TECHNOLOGY CO.,LTD

Address: 3F, bldg F7, F518 Idea Land, Baoyuan Road, Xixiang Avenue, Bao' an

District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Bluetooth speaker				
Models No.	:	5B103BT, 14008BT				
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		Operation Frequency: Bluetooth:2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power:	k Output Power: 8-DPSK: -0.435 dBm			
		Antenna Gain:	1.2 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.

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:

	1000	DI	(05010)		STILL W
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-2.275	±0.5	0.665	0.206	3.0
2.441	-3.565	±0.5	0.494	0.154	3.0
2.480	-5.491	±0.5	0.317	0.100	3.0
		Bluetooth Mode (7	/4-DQPSK)	L. Hilliam	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.950	±0.5	0.902	0.279	3.0
2.441	-2.352	±0.5	0.653	0.204	3.0
2.480	-4.015	±0.5	0.445	0.140	3.0
73	CIII DE	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	-0.435	±0.5	1.015	0.315	3.0
2.441	-2.048	±0.5	0.700	0.219	3.0
2.480	-3.554	±0.5	0.495	0.156	3.0

So standalone SAR measurements are not required.