Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE158739

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RF Exposure Evaluation FCC ID: 2APC6-CAT

1. Client Information

Applicant : Aries Manufacturing A division of Boss Tech Products Inc.

Address 1580 S. Milwaukee Ave. Suite 103, Libertyville, IL 60048, USA

Manufacturer LTX Electronics Co., Limited.

Address No.12, 1st Road BeiAn, Huangjiang Town, Dongguan, Guangdong,

China

2. General Description of EUT

EUT Name	:	Bluetooth Speaker				
Models No.		CAT-BT-MINISPK				
Product Description	:	Operation Frequency: RF Output Power:	Bluetooth V4.2: 2402MHz~2480MHz GFSK:-0.967dBm(Max) π /4-DQPSK:0.225dBm (Max) BLE:2.311dBm (Max)			
		Antenna Gain:	2dBi PCB Antenna			
Power Supply	1	DC Voltage Supply from USB Port. DC Supply by the Li-ion Battery.				
Power Rating	1	DC 5.0 V from the USB Cable. DC 3.7V by 600mAh Li-ion Battery.				
Software Version	i	V1.0				
Hardware Version	:	V1.2				
Connecting I/O Port(S)	i	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 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:

		В	luetooth Mode (GFSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.967	0±1	1	1.259	0.390	3.0
2.441	-1.088	-1±1	0	1.000	0.312	3.0
2.480	-2.283	-2±1	-1	0.794	0.250	3.0
	1100	Blue	tooth Mode (π/4-DQPS	K)	1457	039
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.255	0±1	1	1.259	0.390	3.0
2.441	0.081	0±1	1	1.259	0.393	3.0
2.480	-1.019	-1±1	0	1.000	0.315	3.0
etter's	3 _ (The same	BLE Mode (GFSK)	500		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.311	2±1	3	1.995	0.618	3.0
2.442	1.966	2±1	3	1.995	0.623	3.0
2.480	0.727	1±1	2	1.585	0.499	3.0

So standalone SAR measurements are not required.

----END OF REPORT----