## Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE147066

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# **RF Exposure Evaluation** FCC ID: 2AHM5L2-BTP2

### 1. Client Information

: DongGuan Shangyuan Eletronics Co.,Ltd **Applicant** 

**Address** The 4th Building, Xintang Comprehensive Development Zone, Hengli

Town, Dongguan City, Guangdong Province, China

Manufacturer DongGuan Shangyuan Eletronics Co.,Ltd

Address The 4th Building, Xintang Comprehensive Development Zone, Hengli

Town, Dongguan City, Guangdong Province, China

2. General Description of EUT

EUT Name		Bluetooth speaker				
Models No.		L2-BTP2				
Model Difference	: '	N/A				
Product Description		Operation Frequency: Bluetooth 2.1+EDR:2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power:	Bluetooth: -0.463 dBm( π /4-DQPSK)			
		Antenna Gain:	0.68 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps)			
Power Supply	3	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 by 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:

60		Bluetooth Mode	e (GFSK)	1300	MIL Y
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-1.403	±0.5	0.812	0.252	3.0
2.441	-1.429	±0.5	0.807	0.252	3.0
2.480	-1.500	±0.5	0.794	0.250	3.0
		Bluetooth Mode (	1/4-DQPSK)	MILES -	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.463	±0.5	1.009	0.313	3.0
2.441	-0.478	±0.5	1.005	0.314	3.0
2.480	-0.603	±0.5	0.977	0.308	3.0

So standalone SAR measurements are not required.