

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE150539

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## **RF Exposure Evaluation** FCC ID: 2AGGTA602BT4

### 1. Client Information

: Austin-Whitman Mfg. Group LLC **Applicant** 

**Address** 508 Performance Rd. Mooresville, NC 28115, United States

: Tongxiang Welldragon Co., Ltd. Manufacturer

**Address** : NO.9 East Park Road, Tudian, Tongxiang, Zhejiang, China P.C

2. General Description of EUT

EUT Name		Bluetooth Stereo Amplifier					
Models No.	:	CS-A602BT, CS-A602BT-A, CS-A602BT-B, CS-A602BT-C					
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 4.0(BLE): 2402MHz~2480MHz				
		Number of Channel:	Bluetooth 4.0(BLE): 40 channels see note(3)				
		RF Output Power:	6.675 dBm Conducted Power				
		Antenna Gain:	0 dBi PCB Antenna				
		Modulation Type:	GFSK				
		Bit Rate of Transmitter:	1Mbps(GFSK)				
Power Supply	:	DC power by battery.					
Power Rating	:	DC 12V battery.					
Connecting I/O Port(S)	:	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  BLE Mode (GFSK)									
2.402	4.445	5.500±1.5	7.000	5.012	1.554	3.0			
2.442	6.154	5.500±1.5	7.000	5.012	1.566	3.0			
2.480	6.675	5.500±1.5	7.000	5.012	1.579	3.0			

So standalone SAR measurements are not required.

----END OF REPORT-----