

# Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202202-0123-12

Page: 1 of 3

# RF Exposure Evaluation FCC ID: 2A4MJ-MS-T20

## 1. Client Information

11 011011011111111111111111111111111111					
Applicant	: Jiaxing Yuejia Trading Co., Ltd.				
Address	:	Room 1201-A3, Suyin Building, No. 999, Hongxing Road, Economic and Technological Development Zone, Jiaxing City, Zhejiang Province, China			
Manufacturer	acturer : Jiaxing Yuejia Trading Co., Ltd.				
		Room 1201-A3, Suyin Building, No. 999, Hongxing Road, Economic and Technological Development Zone, Jiaxing City, Zhejiang Province, China			

# 2. General Description of EUT

EUT Name		Bluetooth headphones				
Model(s)		MS-T20, MS-T30, MS-T40, X21, S19, BL08, M28, G1, MD04, E60, H11				
Model Difference		All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance and color.				
Product Description		Operation Frequency:	Bluetooth 5.1(BDR+EDR): 2402MHz~2480MHz			
		Number of Channel:	79 channels			
		RF Output Power:	0.82dBm (Max)			
		Antenna Gain:	1.5dBi Internal Antenna			
	1	Modulation Type:	GFSK(1Mbps)			
The state of the s			π /4-DQPSK(2Mbps)			
Power Supply		Input: DC 5V				
(Earphone)		DC 3.7V by 60mAh Li-ion battery				
Power Supply (Charger Box)		Input: 5V500mA  DC 3.7V by 400mAh Li-ion battery				
<b>Software Version</b>	38	v1.0				
<b>Hardware Version</b>	18	: v1.0				
Connecting I/O Port(S)		Please refer to the User's Manual				

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0

Tel: +86 75526509301

Fax: +86 75526509195



Report No.: TBR-C-202202-0123-12

Page: 2 of 3

#### **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



Report No.: TBR-C-202202-0123-12

Page: 3 of 3

### 2. Calculation:

Test separation: 5mm  GFSK Mode (1Mbps)							
2.402	-0.14	0±1	1	1.259	0.390	3.0	
2.441	-0.49	0±1	1	1.259	0.393	3.0	
2.480	-1.17	-1±1	0	1.0	0.315	3.0	

Test separation: 5mm π /4-DQPSK Mode (2Mbps)							
2.402	0.82	0±1	1	1.259	0.390	3.0	
2.441	0.21	0±1	1	1.259	0.393	3.0	
2.480	-0.39	0±1	1	1.259	0.397	3.0	

#### Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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