

## Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202207-0044-2

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# **RF Exposure Evaluation**

### FCC ID: 2A7ZM-OSTINATOM7

#### 1. Client Information

Applicant : JBU GLOBAL LLC						
Address	•	19416 NE 26th Ave, 114B, Miami, Florida 33180				
Manufacturer		New Tech Development Co, Ltd				
Address	:	Room 301, Building 2000081, Shangwei IndustrialZone, Zhangkengjing Community, Guanhu Street, Longhua District, Shenzhen.China.				

#### 2. General Description of EUT

<b>EUT Name</b>		Ostinato M7							
Model(s) No.	5	Ostinato M7							
Model Different	:	(4/1)							
Sample ID		202207-0044-2-1# & 2	02207-0044-2-1# & 202207-0044-2-2#						
Product Description		Operation Frequency:	Bluetooth 4.2: 2402MHz~2480MHz						
		Number of Channel:	Bluetooth 4.2: 79 channels						
Description	J.	Antenna Gain:	-0.58dBi PCB Antenna						
Power Rating		Input: DC 5V/1.5A DC 7.4V 2000mAh Rechargeable Li-ion battery							
<b>Software Version</b>		V1.0							
Hardware Version	: (	V2.0							

**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.

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#### The RF Exposure Evaluation for FCC:

#### **SAR Test Exclusion Calculations**

FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP $_{20cm}$  is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

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	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
(Z)	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	_ 22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169



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#### Calculation:

		B	luetooth GFSK Mode			
Frequency Conducted Power (GHz) (dBm)		Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit P <sub>th</sub> (mW)	
2.402	-1.56	-1±1	0	1.000	3	
2.441	-1.87	-1±1	0	1.000	3	
2.480	-1.72	-1±1	0	1.000	3	
MUSE		Blue	etooth π /4-DQPSK Mode	NO.		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit P <sub>th</sub> (mW)	
2.402	-1.11	-1±1	0	1.000	3	
2.441	-1.06	-1±1	0	1.000	3	
2.480	-0.99	0±1	10	1.259	3	

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