

Applicant: Shenzhen Glory Star Technology Industrial Co., Ltd.

Product: TWS earphone

Model No.: TWS207, MI-E105T

Trademark: Glory Star, Merkury

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: March 22, 2023

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



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# **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

# FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

# Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2023-03-22



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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: Shenzhen Glory Star Technology Industrial Co., Ltd.

Address: Room 2202, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China

Telephone: +86-755-86397260 Fax: +86-755-26609516

### 1.3 Description of EUT

Product: TWS earphone

Manufacturer: Shenzhen Glory Star Technology Industrial Co., Ltd.

Address: Room 2202, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Trademark: Glory Star, Merkury

Model Number: TWS207 Additional Model Name MI-E105T

Rating: DC5V input or Built-in DC3.7V, 28mAh Li-ion battery for earphones and DC5V

input or Built-in DC3.7V, 200mAh Li-ion battery for charger base.

Modulation Type: GFSK, Π/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz
Hardware Version: 1.0
Software Version: 1.0

Serial No.: TWS207E105T

Antenna Designation Chip antenna with gain 2.7dBi Max (Get from the antenna specification)

#### 1.4 Submitted Sample: 2 Samples

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# 1.5 Test Duration 2023-03-02 to 2023-03-22

# 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment								
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14			
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17			
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17			
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17			
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17			
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14			
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17			
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17			
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17			
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17			
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17			
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25			
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14			
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14			
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14			
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14			
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2022-07-15	2023-07-14			
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14			
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14			
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14			
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17			
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14			
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17			

### 2.2 Automation Test Software

#### For Conducted Emission Test

Name	Version			
EZ-EMC	Ver.EMC-CON 3A1.1			

#### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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#### 3.0 Technical Details

### 3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

#### 4.0 EUT Modification

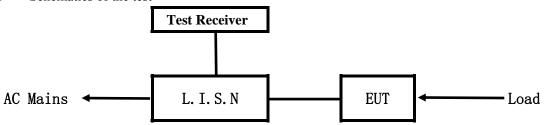
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

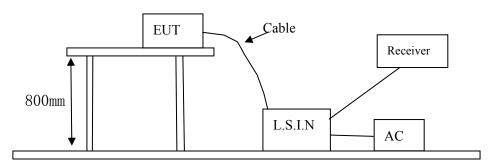


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
TWS earphone	Shenzhen Glory Star Technology	TWS207. MI-E105T	2AS7V-TWS207
	Industrial Co., Ltd.	1 W 5207, MII-E1031	2A3/V-1W32U/

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#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

# C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition
- 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB $\mu$ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies
- 5.6 Test Results:

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### A: Conducted Emission on Live Terminal (150kHz to 30MHz)

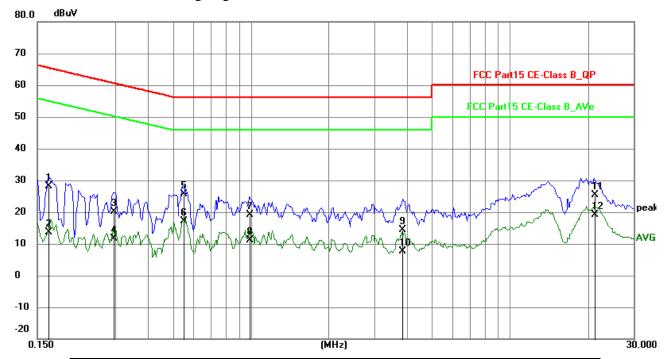
**EUT Operating Environment** 

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	18.33	9.77	28.10	65.18	-37.08	QP	Р
2	0.1655	3.97	9.77	13.74	55.18	-41.44	AVG	Р
3	0.2943	10.29	9.76	20.05	60.40	-40.35	QP	Р
4	0.2943	1.97	9.76	11.73	50.40	-38.67	AVG	Р
5	0.5517	15.80	9.77	25.57	56.00	-30.43	QP	Р
6	0.5517	7.40	9.77	17.17	46.00	-28.83	AVG	Р
7	0.9885	9.27	9.79	19.06	56.00	-36.94	QP	Р
8	0.9885	1.27	9.79	11.06	46.00	-34.94	AVG	Р
9	3.8580	4.42	9.88	14.30	56.00	-41.70	QP	Р
10	3.8580	-2.24	9.88	7.64	46.00	-38.36	AVG	Р
11	21.1545	14.60	10.75	25.35	60.00	-34.65	QP	Р
12	21.1545	8.35	10.75	19.10	50.00	-30.90	AVG	Р

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### B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

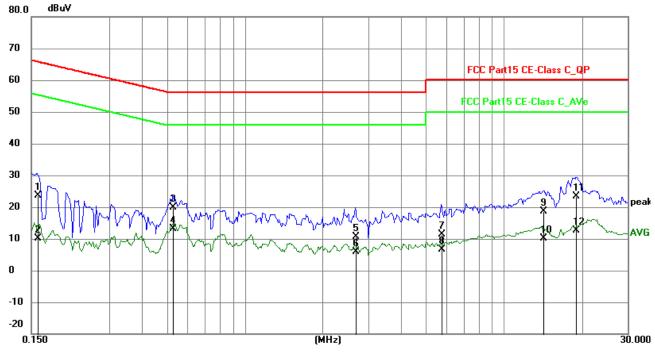
**EUT Operating Environment** 

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1590	13.87	9.78	23.65	65.52	-41.87	QP	Р
2	0.1590	0.45	9.78	10.23	55.52	-45.29	AVG	Р
3	0.5283	10.11	9.77	19.88	56.00	-36.12	QP	Р
4	0.5283	3.40	9.77	13.17	46.00	-32.83	AVG	Р
5	2.6655	0.70	9.83	10.53	56.00	-45.47	QP	Р
6	2.6655	-4.00	9.83	5.83	46.00	-40.17	AVG	Р
7	5.7300	1.52	9.96	11.48	60.00	-48.52	QP	Р
8	5.7300	-3.45	9.96	6.51	50.00	-43.49	AVG	Р
9	14.2047	8.29	10.35	18.64	60.00	-41.36	QP	Р
10	14.2047	-0.12	10.35	10.23	50.00	-39.77	AVG	Р
11	19.0173	12.79	10.62	23.41	60.00	-36.59	QP	Р
12	19.0173	2.09	10.62	12.71	50.00	-37.29	AVG	Р

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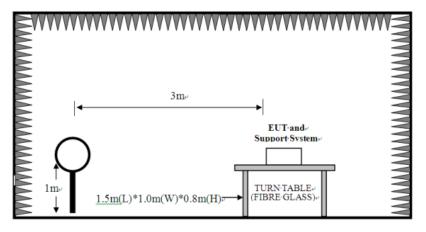


#### **6** Radiated Emission Test

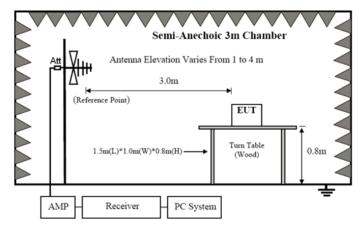
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### **Block diagram of Test setup**

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



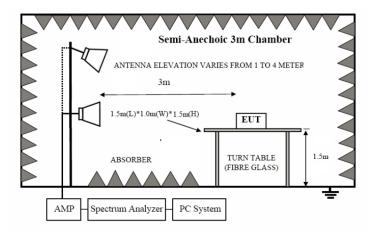
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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT
  Same as section 5.3 of this report
- 6.3 EUT Operating Condition
  Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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## B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The three modulation modes of GFSK and Pi/4D-QPSKwere tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 7. Battery fully charged was used during the test.
- 8. The right and left earphones were tested, and only the worst the worst was reported. The right earphone was the worst case.

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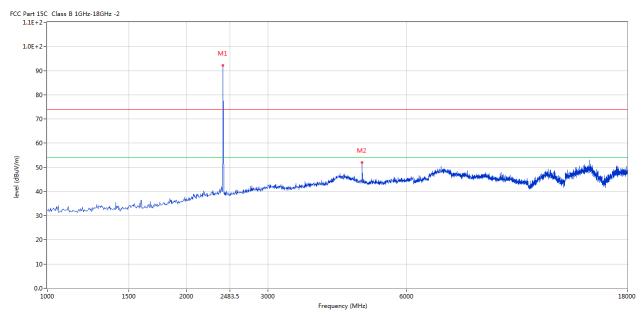


#### 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal



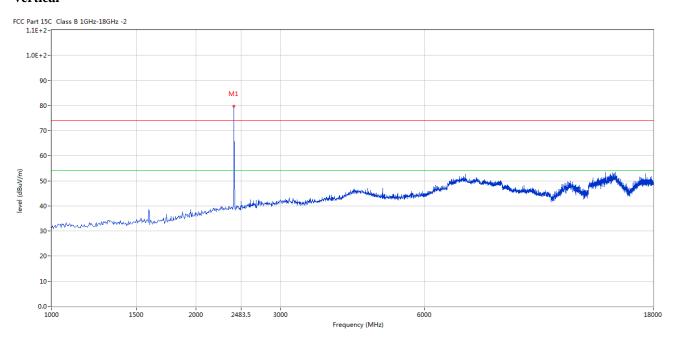
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	92.37	-3.57	114.0	-21.63	Peak	260.00	100	Horizontal	Pass
2	4802.799	51.90	3.12	74.0	-22.10	Peak	255.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	79.79	-3.57	114.0	-34.21	Peak	204.00	100	Vertical	Pass

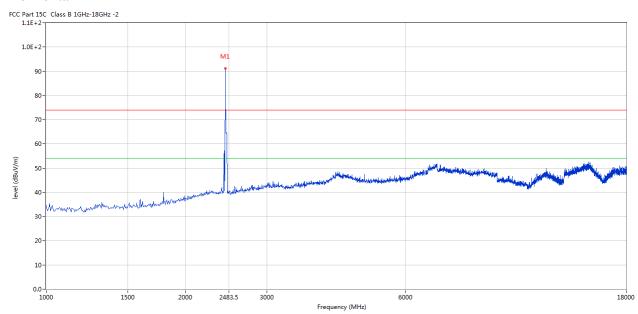
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



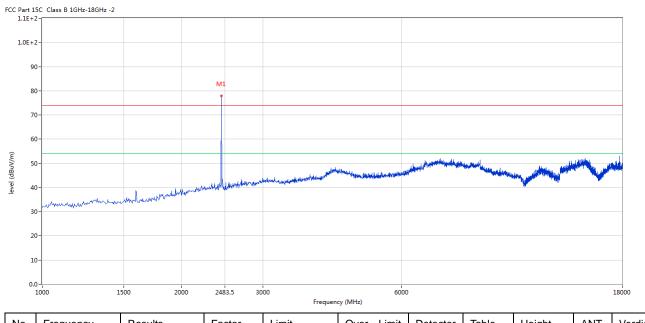
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	92.02	-3.57	114.0	-21.98	Peak	257.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	77.84	-3.57	114.0	-36.16	Peak	34.00	100	Pass	N/A

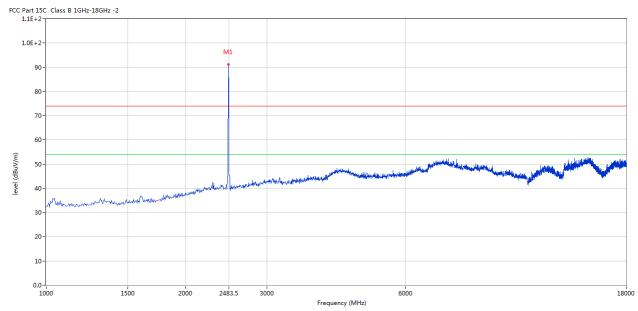
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



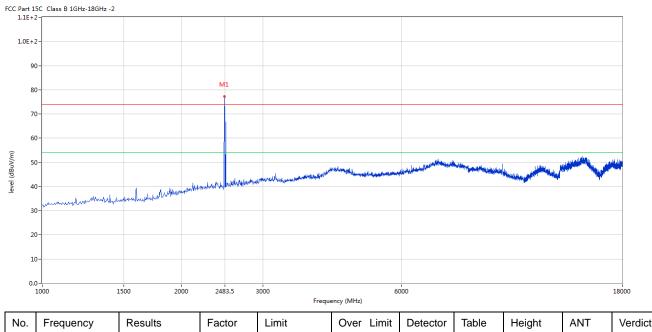
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2480	91.98	-3.57	114.0	-22.02	Peak	253.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	77.34	-3.57	114.0	-36.66	Peak	48.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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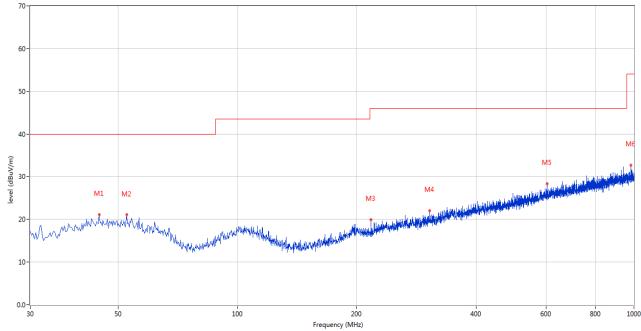
#### B. **General Radiated Emission Data** Radiated Emission In Horizontal (30MHz----1000MHz)

**EUT set Condition:** Keep Tx transmitting

**Results: Pass** 

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	44.789	21.04	-11.42	40.0	-18.96	Peak	217.00	100	Horizontal	Pass
2	52.547	21.03	-11.46	40.0	-18.97	Peak	157.00	100	Horizontal	Pass
3	217.163	19.87	-13.49	46.0	-26.13	Peak	30.00	100	Horizontal	Pass
4	305.169	21.99	-10.93	46.0	-24.01	Peak	298.00	100	Horizontal	Pass
5	603.127	28.30	-5.07	46.0	-17.70	Peak	78.00	100	Horizontal	Pass
6	982.544	32.64	-1.28	54.0	-21.36	Peak	204.00	100	Horizontal	Pass

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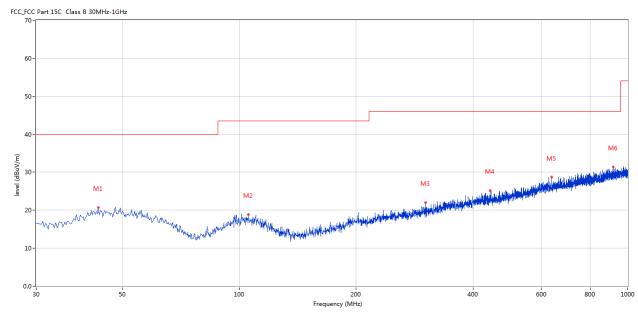


### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	43.334	20.67	-11.49	40.0	-19.33	Peak	185.00	100	Vertical	Pass
2	105.399	18.91	-13.25	43.5	-24.59	Peak	179.00	100	Vertical	Pass
3	301.290	21.97	-11.00	46.0	-24.03	Peak	232.00	100	Vertical	Pass
4	442.874	25.14	-7.93	46.0	-20.86	Peak	132.00	100	Vertical	Pass
5	637.796	28.68	-4.72	46.0	-17.32	Peak	18.00	100	Vertical	Pass
6	916.601	31.38	-1.87	46.0	-14.62	Peak	44.00	100	Vertical	Pass

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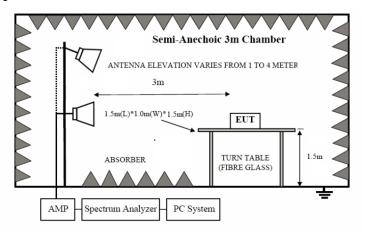


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

# 7.3 Configuration of the EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

#### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

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#### 7.6 Test Result

Г	Product:		TWS	earphone		Pol	larity		Horizont	al
	Mode	I	Keeping '	Fransmitting	;	Test '	Voltage		DC3.7V	T
Ter	mperature		24 0	leg. C,		Hur	nidity		56% RE	Į.
Tes	st Result:		F	Pass						
CC Part	t 15C Class B 1GHz-18G	iHz -2								
1.0E	+2-								M1	
	90-								<b>₩</b>	
	80-									
	70-								/ "	
								,		
2	60-						M4 M5	/	M2	
5	50-						INIO		•	
		han was the large part of the	A. Ang. Hilly Marien, H	han Maria da	Phylophia dina dia bayan	M3				A. Marillania
	40-	den de la companya d	di kana katendari kana da	ha garanan	Madalahi da					Mulhar
	40	handra and had a share of the later of the l	As hospital publication, the	un Manuninan	Frequency (N	i, populari and anti-				
	40	Results	Factor	Limit		i, populari and anti-	Table (o)	Height	ANT	2410
	40- 30- 20- 10- 0.0- 2350				Frequency (N	MHz)		Height (cm)	ANT	2410
<b>1</b> 0.	40- 30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (N	MHz)		_	ANT Horizontal	241
lo.	40- 30- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (N Over Limit (dB)	MHz)  Detector	Table (o)	(cm)		241(
No.	40- 30- 20- 10- 2350  Frequency (MHz) 2402.097	Results (dBuV/m) 92.35	Factor (dB)	Limit (dBuV/m) 74.0	Frequency (NOVER LIMITE (dB) 18.35	MHz)  Detector  Peak	Table (o) 264.00	(cm)	Horizontal	Verdict N/A
) )	40-20-20-20-20-20-20-20-20-20-20-20-20-20	Results (dBuV/m) 92.35 66.38	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0	Frequency (NOVER Limit (dB) 18.35 -7.62	Detector  Peak  Peak	Table (o) 264.00 269.00	(cm) 100 100	Horizontal Horizontal	Verdict N/A Pass
level (dBu	40- 30- 20- 10- 2350  Frequency (MHz) 2402.097 2400.000 2400.000	Results (dBuV/m) 92.35 66.38 52.29	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (N Over Limit (dB) 18.35 -7.62 -1.71	Detector  Peak Peak AV	Table (o)  264.00  269.00  269.00	(cm) 100 100 100	Horizontal Horizontal Horizontal	Verdict  N/A  Pass  Pass

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--	----------

F	Product:		TWS	S earphone		De	etector		Vertical	
	Mode		Keeping	g Transmitti	ng	Test	Voltage		DC3.7V	
Ter	mperature		24	4 deg. C,		Hu	midity		56% RH	
Te	st Result:			Pass						
	5C Class B 1GHz-18GHz	-2								
1.0E+2	!-									
90	)-									
80	)-								M1	
									$+\lambda$	
70	)-								/ \	
60	)-								$\longleftarrow$	
_ 50	)-						M4 <sub>#</sub> M3	M5 N	2	
							المطالب الأملي	أكل لينابل الماسان	\	
40		, Johnson Hill Street, Santon	and a distribution of the second		والمناوعة والمادانية و					'Alexandrian
	)-  -	o de mila con de de estado de e	with the solding a speed of	مسلمه والمستراق المسلمة		ut guarat bilda (1904) di salah				
30 20 10	)-	o de mila porta de la partir de la properación dela properación de la properación de la properación dela properación dela properación dela properación de la properación dela properación del properación dela properación dela properación del properación dela properación de	naki bi padakinga siya cerib	and the state of t	Frequency (MH					and the state of t
30 20 10 0.0	)-  -  -	Results	Factor	Limit			Table (o)	Height	ANT	241
30 20 10 0.0 2	)-				Frequency (MH	lz)	Table (o)	Height (cm)	ANT	241
30 20 10 0.0 2	Frequency	Results	Factor	Limit	Frequency (MHOVer Limit	lz)	Table (o) 222.00		ANT Vertical	241
30 20 10 0.0 2 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MH Over Limit (dB)	Detector	, ,	(cm)		Verdi
30 20 10 0.0 2 No.	Frequency (MHz) 2402.022	Results (dBuV/m) 79.65	Factor (dB)	Limit (dBuV/m) 74.0	Frequency (MHO)  Over Limit (dB)  5.65	Detector Peak	222.00	(cm)	Vertical	Verdi N/A Pass
30 20 10 0.0 2 No.	Frequency (MHz) 2402.022 2400.000	Results (dBuV/m) 79.65 57.97	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHOVER Limit (dB) 5.65 -16.03	Detector Peak Peak	222.00 233.00	(cm) 100 100	Vertical Vertical	Verdi N/A Pass Pass
30 20 10 0.0 2	Frequency (MHz) 2402.022 2400.000 2400.000	Results (dBuV/m) 79.65 57.97 49.97	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHO)  Over Limit (dB)  5.65  -16.03  -4.03	Detector Peak Peak AV	222.00 233.00 233.00	(cm) 100 100 100	Vertical Vertical Vertical	241 Verdi

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I	Product:		TW	S earphone			Polari	ty	Horizo	ntal
	Mode Keeping Transmitti			ng	Test Voltage		age DC3.7V		7V	
Te	mperature		2.	4 deg. C,			Humid	umidity 56% RH		
Te	est Result:			Pass						
CC Part	t 15C Class B 1GHz-18GF E+2-	lz -2								
1.0E	F+2-									
	90-			The state of the s						
	80-			1						
	70-									
				116						
	60-		A STATE OF THE STA	7						
BuV/m)		المؤلل الدين		Man Man Market	`					
level (dBuV/m)				M	Mary Mary Hard		المنظم المنطق	Okhabea, dalah arantan	والإرباد والمتارات والمتار	والمراجعة المراجعة ا
level (dBuV/m)		H. Marani Akali Malika		) And	2	l li li de propins	المعادد والخدومة والمادر والمادر والمادر	ikkindesi, oktobbisoophysi	indraj, hand day, wad nggalada wa da afrajida	n kapa kapa kapa kapa kapa kapa kapa kap
level (dBuV/m)	50- 40- <sub>101</sub> - 1014 hat Man	k. Namada Aka Mahilik kirib		M	2 Mary 1 Mary 1	المالية	terda yilke entegerinenstra kiristi	ithkeedsta, akdoobbeessah wat	May had by an english an eagle play	n iyeyi <mark>leril</mark> eriye in <u>anla</u>
level (dBuV/m)	50- 40- <sub>101-101</sub> 114 1114 1114 111 30- 20-	h. Marenet Assa Nadal de de de de la constante		M	2 Martin Hilling III	k li sist sarting sin	t (1800 yılık, rolley yılının yılını kirili kirili ili	ilkladen aldrid er ogskred	and the second s	e iyadin kila ke da ili da ka
level (dBuV/m)	50- 40- <sub>101</sub> - 1014 hat Man	k.He.is.asiHe.iliddidd		M	2 Mary Mary Mary Mary Mary Mary Mary Mary	the state of the s	हरपेर पूर्वे <b>त्र पर्वेत्र प्रकार करे</b> पर्वे के प्रकार करें पर्वे के प्रकार करें प्रकार करें प्रकार करें प्रकार क	iki ain ahin ana	المالية	engaphahiraninati
	50- 40- <sub>101-101</sub> 114 1114 1114 111 30- 20-	k.dkaracat.esanladdddddddddddddddddddddddddddddddddd		M 248		le like the state of the state	grita pila, ming mengastra dinag	ikkissin oktooroon, et	ming display was specified to the second	
	30 - 20 -	Results	Factor	24s	3.5	Detector	Table	Height	ANT	250
	30 - 20 - 10 - 0.0 - 2470				3.5 Frequency (MHz)					250
No.	50- 40- 30- 20- 10- 2470 Frequency	Results	Factor	Limit	3.5 Frequency (MHz)		Table	Height		250
(w/\ngp)   Parallel	50- 40- 30- 20- 10- 0.0- 2470 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	3.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	25c Verdi

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	Product: TWS ea			1			Detector		Vertical	
	Mode Keeping Transm			ng Transmittii	ng	,	Test Voltage		DC3.7V	
Te	emperature 24 deg. C,			24 deg. C,			Humidity		56% RH	
Те	est Result:	Result: Pass								
	rt 15C Class B 1GHz-18G E+2-	Hz -2								
2101										
	90-									
	80-		Mary Contraction of the Contract	\						
	70-									
	60-			- M						
E C	50-			M <sub>2</sub> M <sub>2</sub>						
(dBuV/m)		ally believes the death of the state of the		M2	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	والمراجع المراجع	الأنديج خادوارا والمتازعات	r Attilluler rolleres by the	والمناولة المراولة والمناورة والمناو	lika karipi kalikan
level (dBuV/m)	50- 40-	alle deliverate de la description d'estable		M2	waylada, da da la			v/kkdeitzvikketzkebie	hatereen kapita da jiilada kijilatelii.	de lange en elfen
level (dBuV/m)	50- 40-1444 (1) 13-14 (1) 14-14	alla helmodyska di hadriitaida vallabbi		M2	water de la	or the state of th		n Vitaphiran private propin	the second of th	de-ballyh-vellere
level (dBuV/m)	50- 40-	all definitely for a desired substitution of the last substitution of t		M2	volghade, ken her held blid det de delegen	<del>نام در در دارا این به دارا</del>		r feldfeir sofrieir feine	ringa kapita da pada da pilonga.	da. Ladija k. odije
level (dBuV/m)	50- 40-1444 (1) 13-14 (1) 14-14	alla halissasiya ka di daabasiissiida sallabda		M2	wallow is a local to the later	indukaya pada da		u Attiliek zuduna kadiya	terre de de la companya de la compa	lk Labert Val
level (dBuV/m)	50- 40-24-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	alle heliosoodige ka kapitatiiniden jalliski		M2 2483.5		and the second s		o Atlahon saphinist ang da	heiran kell kilasida jil kella	2500
level (dBuV/m)	30 - 20 - 0.0	at de himselig had de de ji zi de pad de hi		2483.5		wind the second of the second		i Addahan dip	hina na singini dha dha dhi dha	2500
No.	30 - 20 - 0.0	Results	Factor	2483.5		Detector	Table	Height	ANT	
	30- 20- 10- 2470	Results (dBuV/m)	Factor (dB)	2483.5	Frequency (MHz)	111				
	30- 20- 10- 2470			2483.5 Limit	Frequency (MHz)  Over Limit	111	Table	Height		2500 Verdict

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

- 2. For Restricted band test, the three modulation modes of GFSK, Pi/4D-QPSKwere tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 3. The right and left earphones were tested, and only the worst the worst was reported. The right earphone was the worst case.

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### 8.0 Antenna Requirement

### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a Chip antenna. The antenna gain is 2.7dBi Max. It fulfills the requirement of this section. Test Result: Pass

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FSK					
Product:	TWS earp	hone	Test Mode:	Keep tr	ansmitting
Mode	Keeping Tran	smitting	Test Voltage	DO	C3.7V
Temperature	24 deg.	C,	Humidity	56	% RH
Test Result:	Pass		Detector		PK
20dB Bandwidth	864.0kI	Hz			
Ref 10 dBr	m Att 40	*RBW 30 *VBW 100 dB SWT 5 m	kHz	1 [T1 ] -2.66 dBm .401820000 GHz	1
-0-		<u></u>	Temp 1	.0000000000000 kHz [T1 nd8] -22.48 dBm .401532000 GHz	А
20	T1/V		Temp 2	(TI nd8) -22.67 dBm .402396)00 GHz	-
30			Y A		-
-40				m	3DB
60	V		V	- www.	
-70					-
-80					-
-90					

Date: 16.MAR.2023 14:27:01

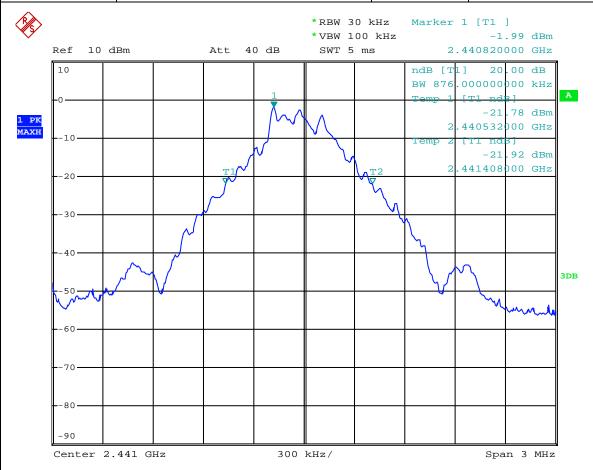
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GFSK			
Product:	TWS earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	876.0kHz		



Date: 16.MAR.2023 14:37:42

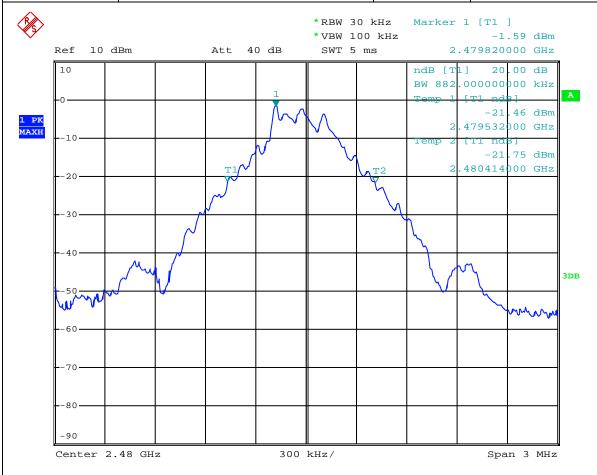
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Date: 2023-03-22



GFSK			
Product:	TWS earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	882.0kHz		



Date: 16.MAR.2023 14:39:19

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Product:	TWS earphone	2	Test Mode:	Keep transmi	itting
Mode	Keeping Transmit	ting	Test Voltage	DC3.7V	7
Temperature	24 deg. C,		Humidity	56% RH	I
Test Result:	Pass		Detector	PK	
20dB Bandwidth	1.248MHz				
MARKER 1 2.401826 Ref 10 dB		*RBW 30 ] *VBW 100 SWT 5 ms	kHz s 2.	-2.59 dBm 401826000 GHz	
-0		^	Temp 1	248000 000 MHz [T1 nd8] -22.44 dBm	
20		1 Laura	✓ Temp 2	401352)00 GHz [TI nd8] -22.35 dBm 402600)00 GHz	
30	<b>y</b>				
40				3DB	
60				anjunhan	
70					
80					
-90 Center 2.4	10.3 CH2 3.0	00 kHz/		Span 3 MHz	

Date: 16.MAR.2023 14:42:24

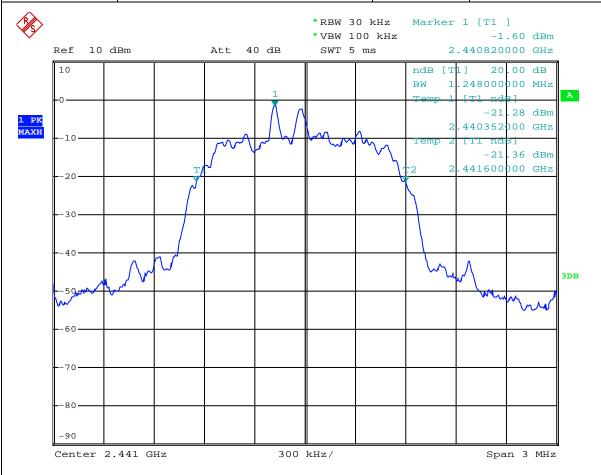
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Л/4DQPSK			
Product:	TWS earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.248MHz		



Date: 16.MAR.2023 14:45:08

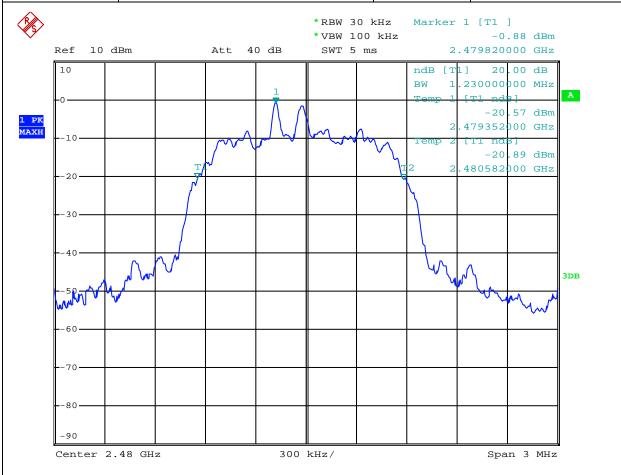
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Л/4DQPSK			
Product:	TWS earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.230MHz		



Date: 16.MAR.2023 14:45:49

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#### 10.0 FCC ID Label

#### FCC ID: 2AS7V-TWS207

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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#### 11.0 Photo of testing

#### 11.1 Conducted test View



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## Radiated emission test view



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Date: 2023-03-22



## 11.2 Photographs – EUT

Outside View - charger base



The report refers only to the sample tested and does not apply to the bulk.

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Outside View- charger base



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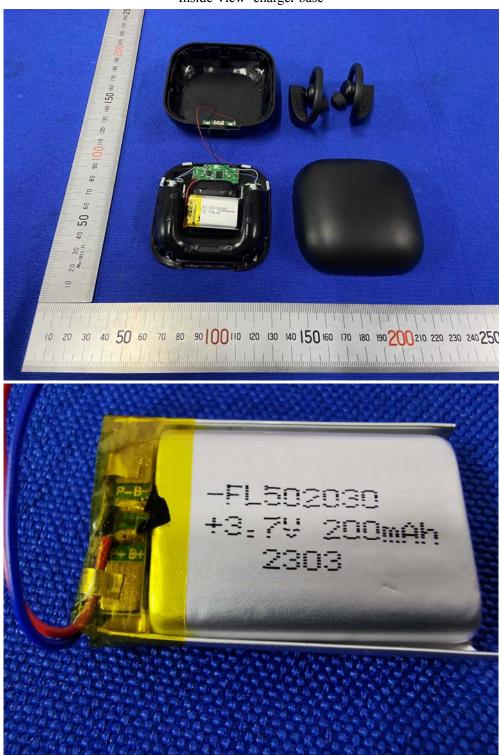
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Inside View- charger base



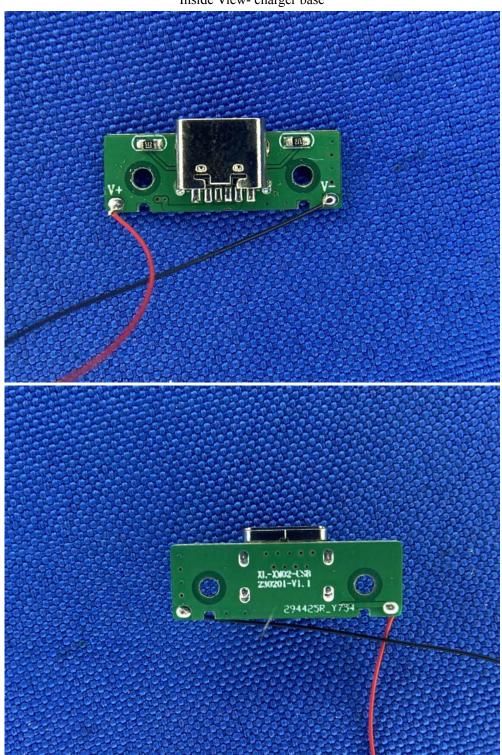
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Inside View- charger base



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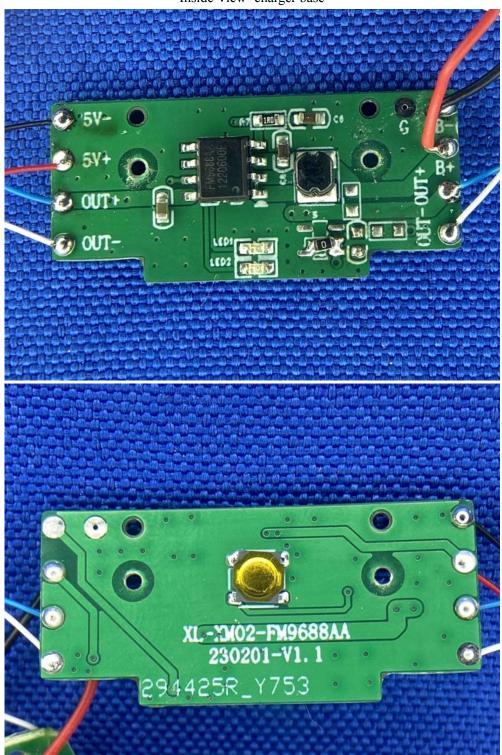
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Inside View- charger base



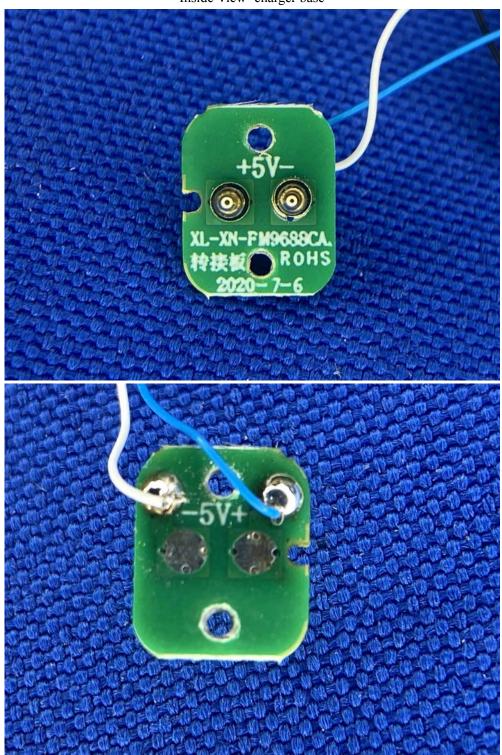
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Outside View - Left earphone



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Outside View - Left earphone



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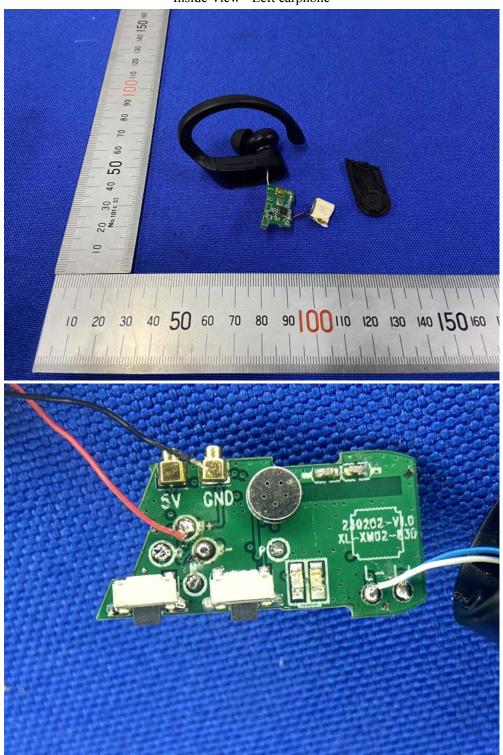
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Inside View - Left earphone



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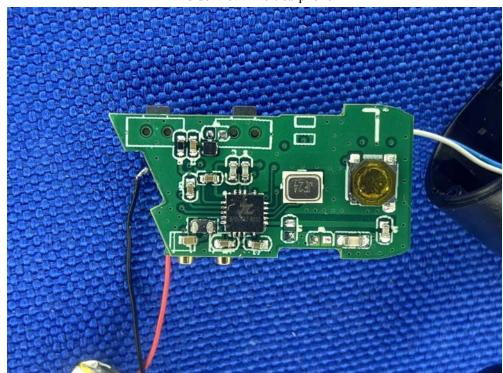
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Inside View - Left earphone



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Outside View - Right earphone



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Outside View - Right earphone



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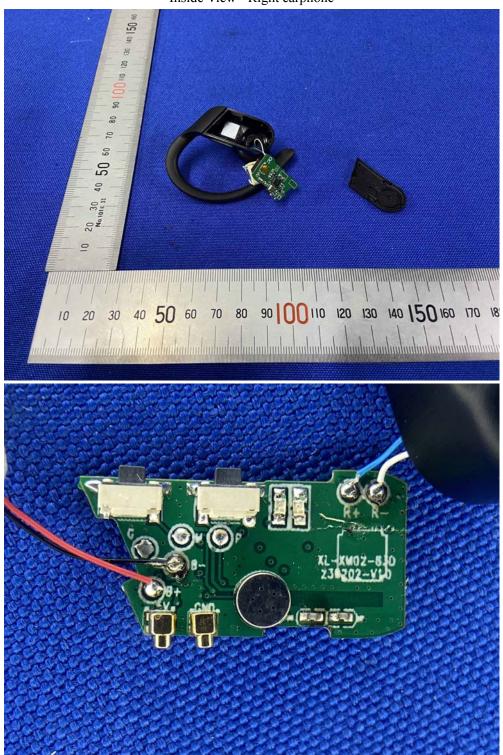
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Inside View - Right earphone



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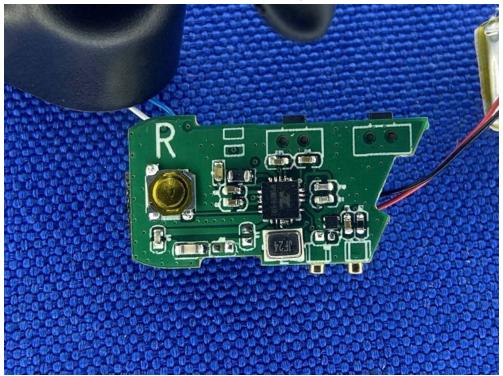
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Inside View - Right earphone



-- End of the report--