

Report No.: TW2307387E

Applicant: TECHNOFASHION INC.

Product: Wireless Earphone

Model No.: UCCWS06, UCCWS06-1, UCCWS06-2, UCCWS06-3,

UCCWS06-4

Trademark: N/A

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: August 08, 2023

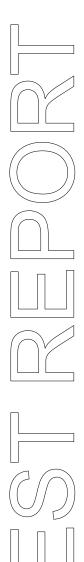
Results appearing herein relate only to the sample tested

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

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# Test Report Conclusion Content

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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: TECHNOFASHION INC.

Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Telephone: +1 (973) 866 7373

Fax: --

## 1.3 Description of EUT

Product: Wireless Earphone

Manufacturer: TECHNOFASHION INC.

Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Trademark: N/A

Model Number: UCCWS06

Additional Model Name UCCWS06-1, UCCWS06-2, UCCWS06-3, UCCWS06-4

Rating: DC5V input or Built-in DC3.7V, 50mAh Li-ion battery for earphones;

DC5V/0.3A input or Built-in DC3.7V, 230mAh Li-ion battery for charger base.

Modulation Type: GFSK, Л/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz
Hardware Version: V1
Software Version: 236

Serial No.: UCCWS06202306

Antenna Designation Chip antenna with gain 1.6dBi Max (Get from the antenna specification)

### 1.4 Submitted Sample: 1 Sample

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#### 1.5 Test Duration

2023-07-26 to 2023-08-08

## 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	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

## 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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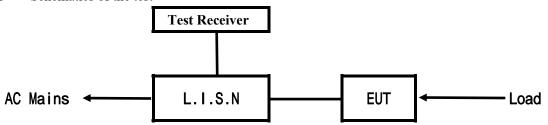
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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

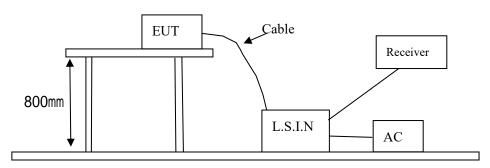


**EUT: Equipment Under Test** 

## 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
		UCCWS06, UCCWS06-1,	
Wireless Earphone	TECHNOFASHION INC.	UCCWS06-2, UCCWS06-3,	2AZBO-N00025
		UCCWS06-4	

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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 µ V)			
(MHz)	Quasi-peak Level	Average Level		
0.15 ~ 0.50	66.0 ~ 56.0*	56.0 ~ 46.0*		
0.50 ~ 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)

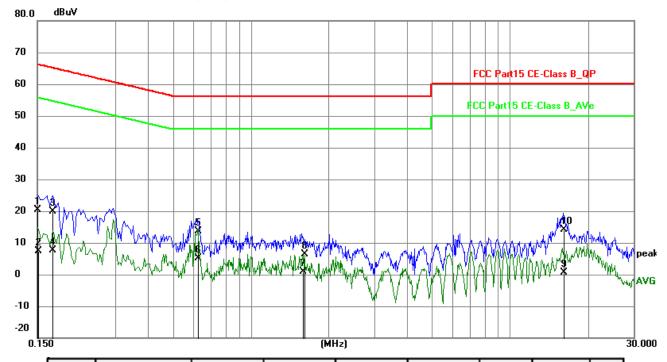
**EUT Operating Environment** 

Temperature: 25 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	0.1500	10.67	9.79	20.46	66.00	-45.54	QP	Р
2	0.1510	-2.47	9.78	7.31	55.94	-48.63	AVG	Р
3	0.1720	10.10	9.77	19.87	64.86	-44.99	QP	Р
4	0.1720	-2.09	9.77	7.68	54.86	-47.18	AVG	Р
5	0.6260	3.77	9.78	13.55	56.00	-42.45	Q.	Р
6	0.6270	-4.59	9.78	5.19	46.00	-40.81	AVG	Р
7	1.5910	-9.00	9.80	0.80	46.00	-45.20	AVG	Р
8	1.6130	-3.45	9.80	6.35	56.00	-49.65	QP	Р
9	16.1070	-9.73	10.45	0.72	50.00	-49.28	AVG	Р
10	16.1130	3.64	10.45	14.09	60.00	-45.91	QP	Р

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

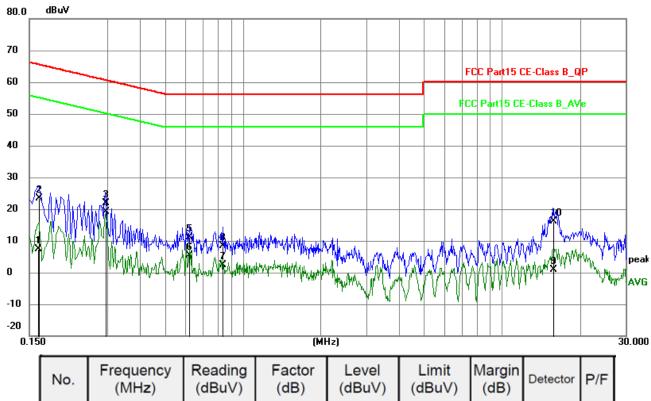
**EUT Operating Environment** 

Temperature: 25 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	0.1620	-2.51	9.78	7.27	55.36	-48.09	AVG	Р
2	0.1630	13.49	9.78	23.27	65.31	-42.04	QP	Р
3	0.2940	12.10	9.76	21.86	60.41	-38.55	QP	Р
4	0.2940	9.44	9.76	19.20	50.41	-31.21	AVG	Р
5	0.6230	1.45	9.78	11.23	56.00	-44.77	QP	Р
6	0.6230	-4.51	9.78	5.27	46.00	-40.73	AVG	Р
7	0.8380	-7.39	9.78	2.39	46.00	-43.61	AVG	Р
8	0.8390	-1.52	9.78	8.26	56.00	-47.74	QP Q	Р
9	15.7810	-9.43	10.43	1.00	50.00	-49.00	AVG	Р
10	15.7980	5.75	10.43	16.18	60.00	-43.82	QP	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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

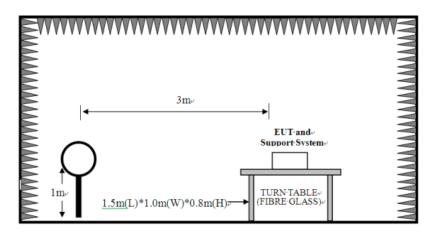
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz 600Hz		Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz 300KHz		Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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



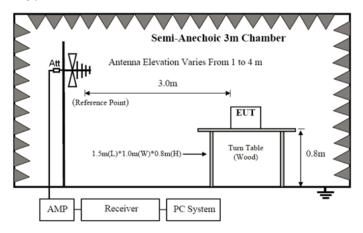
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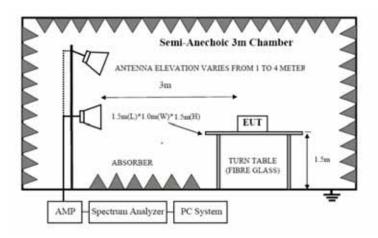
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For radiated emissions from 30MHz to1GHz



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 Strength of Fundamental (3m)		Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m	

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2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
2 100 2 103.3	50	) i (riverage)	III (I cak)	500	J ( ( Tive tage)	/4 (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.

## 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
88-2 6	3	43.
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 two modulation modes of GFSK and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. This is a portable 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.

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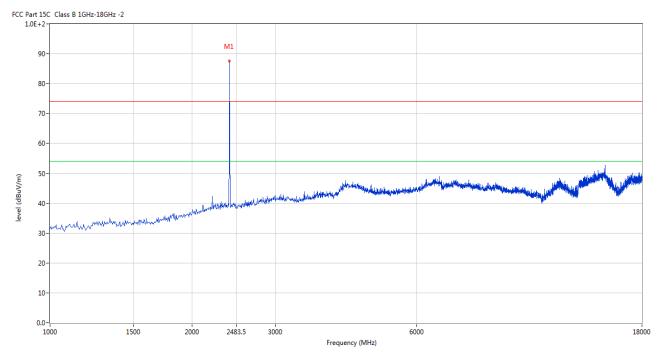


#### 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



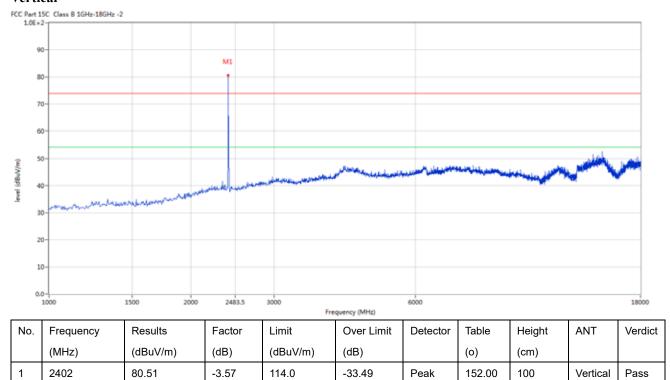
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	87.49	-3.57	114.0	-26.51	Peak	142.00	100	Horizontal	Pass

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## Vertical

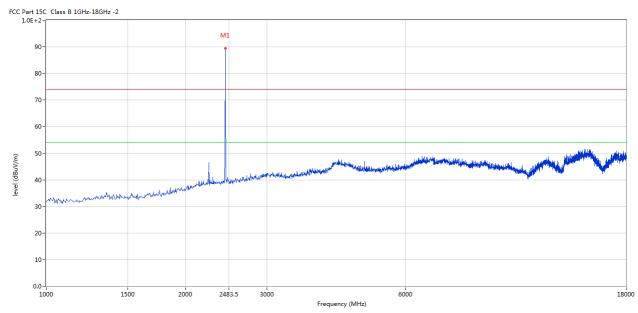


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Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal



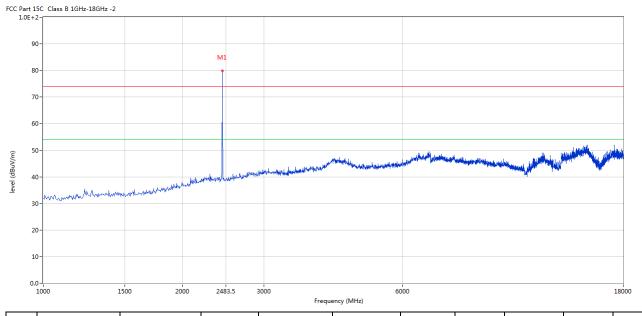
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	89.44	-3.57	114.0	-24.56	Peak	138.00	100	Horizontal	Pass

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## Vertical



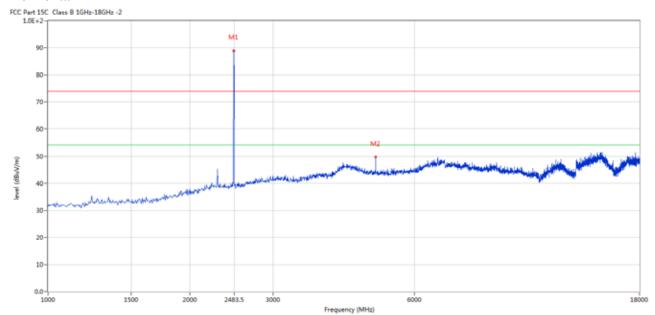
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	79.91	-3.57	114.0	-34.09	Peak	47.00	100	Vertical	Pass

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

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	90.15	-3.57	114.0	-23.85	Peak	138.00	100	Horizontal	Pass
2	4960.010	49.67	3.36	74.0	-24.33	Peak	148.00	100	Horizontal	Pass

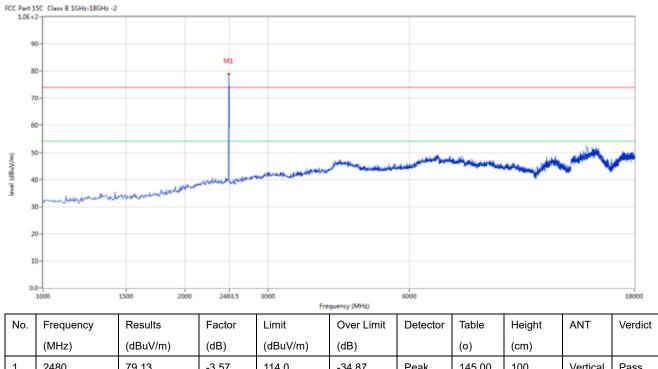
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#### Vertical



2480 79.13 -3.57 114.0 -34.87 145.00 Peak 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.

Date: 2023-08-08

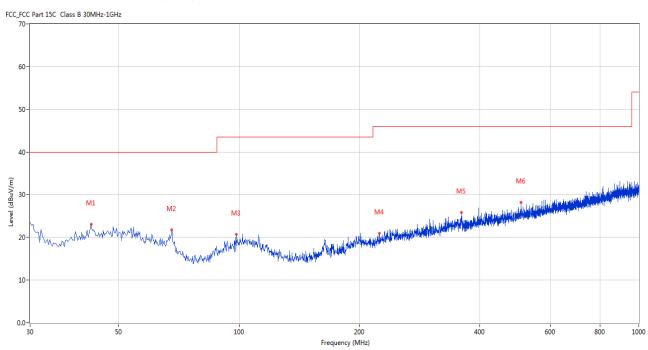


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	42.607	23.13	-11.55	40.0	16.87	Peak	30.00	100	Horizontal	Pass
2	67.821	21.81	-14.55	40.0	18.19	Peak	99.00	100	Horizontal	Pass
3	98.368	20.63	-13.72	43.5	22.87	Peak	4.00	100	Horizontal	Pass
4	224.194	20.99	-13.03	46.0	25.01	Peak	304.00	100	Horizontal	Pass
5	360.202	25.82	-9.48	46.0	20.18	Peak	0.00	100	Horizontal	Pass
6	506.878	28.16	-6.89	46.0	17.84	Peak	119.00	100	Horizontal	Pass

Date: 2023-08-08

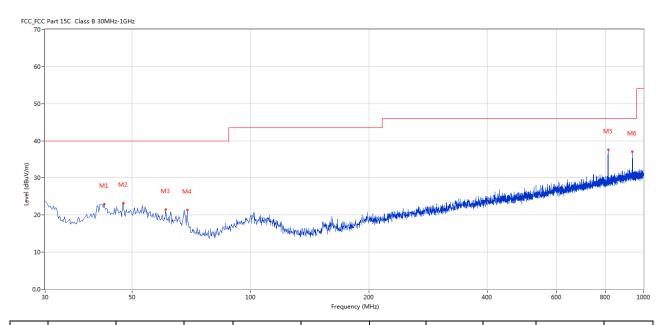


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	42.364	22.89	-11.59	40.0	17.11	Peak	259.00	100	Vertical	Pass
2	47.456	23.17	-11.38	40.0	16.83	Peak	182.00	100	Vertical	Pass
3	60.790	21.46	-13.07	40.0	18.54	Peak	21.00	100	Vertical	Pass
4	69.033	21.38	-15.24	40.0	18.62	Peak	132.00	100	Vertical	Pass
5	812.594	37.59	-2.94	46.0	8.41	Peak	108.00	100	Vertical	Pass
6	937.451	37.01	-1.78	46.0	8.99	Peak	265.00	100	Vertical	Pass

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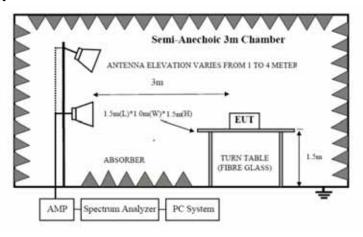
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## 7. Band Edge

#### 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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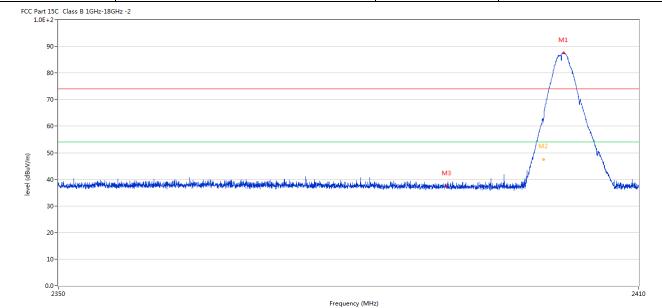
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Date: 2023-08-08



#### 7.6 Test Result

Product:	Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.172	87.48	-3.57	74.0	13.48	Peak	145.00	100	Horizontal	N/A
2	2400.042	62.45	-3.57	74.0	-11.55	Peak	241.00	100	Horizontal	Pass
2**	2400.042	47.43	-3.57	54.0	-6.57	AV	241.00	100	Horizontal	Pass
3	2390.025	37.48	-3.53	74.0	-36.52	Peak	360.00	100	Horizontal	Pass

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3

2390.025

38.31

-3.53

74.0



	Product:	,	Wireless E	Earphone		Detect	or		Vertical		
	Mode	K	eeping Tra	ansmitting		Test Vol	tage	]	DC3.7V		
Te	emperature		24 deg	g. C,		Humid	ity	56% RH			
Te	est Result:		Pass								
	rt 15C Class B 1GHz-18GH E+2-	z -2									
	90-										
									M1		
	80-							/			
	70-								$\rightarrow$		
	60-							/_	\		
									$\overline{}$		
(w/w)	50-					Ma		M2			
vei (dauv/mi)	40	haven gall and he except forming field along before	anterior protessarios de circles de constante de la constante de la constante de la constante de la constante d	mutas dialata (tingunjak pak, disatap	talography and the state of the	M3	وريا فارستان فارياقا بالموالي موراهوا	M2		<del>Hoodige Joseph and Arch</del>	
level (dbdv/ml)	40	Kanggalin <mark>ap</mark> ukan dipablikan dipablika berjadisan su	هيئة والإستان والمراجعة المراجعة المراج	new tandining thinken fill and had been a	والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج		والمرافق وال	- 1		iteritate to flee stage.	
level (abuv/m)	40- Antonio francisco de la fina	danggali a <mark>d</mark> ak energi di <mark>kampun kakada</mark> n diseran	હાફેલ્સ્ફ્રેલિસ્ટલ્સ્ફ્રેલિસ્ટલ્સ્ફ્રેલિસ્ટલ્સ્ફ્રેલિસ્ટલ્સ્ફ્રેલિસ્ટલ્સ્ફ્રેલિસ્ટલ્સ્ફ્રેલિસ્ટલ્સ્ફ્રેલિસ્ટલ્સ	na de a stindo das titilizacios de data de la secto de	ومرادوسته الموافقيات المتوسط والموافق		المرافق بناه المرافق ا	- 1		<del>ipole</del> pholesia, l	
level (abuv/m)	40-	Kanguplu <del>ali, i</del> kanti pik <mark>i kamiya dala-iya, i</mark> stan sa	e poplatenjoj ničevo e e e e e e	man dan distributive distributivisti andra dibusab nga	rate granding think has the		يوراي بيورية والمراجع	- 1		<del>ilgerige ja kas</del> alees. I	
ievei (dbuV/m)	40- Antonio francisco de la fina	k nagyapi neghat na cai piddhanain nag dagin ning mainn na	<u>તાનું અને સ્વાપન</u> 	ne with a still global spill fill the grade of the spill and a still spill and a still spill and a still spill	o de que de la constitución de la c		echtum in als Mid-a deu	- 1			
level (abuv/m)	30 - 10 - 0.	kanggala <del>ak</del> a tanggal <u>ikaniya lati bega lisabe</u> n	<u>a profesorojný vide</u> vož c <sub>er</sub> a i ž š	muita akkirjanin kitipurijist neka kilan Ingi	e de general en deserbio		reidina in al ididi a dua	- 1			
level (dbuv/m)	40 - 30 - 20 - 10 -	k.n.g.gat. aftet ersteid forming hijk dep biserne	<u>તાનાં અને સ્વાપ્ત</u> ાનો અને સ્વાપ્તાનો હતે.		Frequency (MHz)		religiona, iro ali iliadi, a, drus	- 1			
	30 - 10 - 0.	Results	Factor		THE REST STREET AND PROPERTY OF THE PERSON O		Table	- 1	ANT	24:	
	30 - 20 - 10 - 2350				Frequency (MHz)	minodrinak dalah sagasifik			ANT	24:	
lo.	30- 20- 10- 2350	Results	Factor	Limit	Frequency (MHz)  Over Limit	minodrinak dalah sagasifik	Table	Height	ANT Vertical	24:	
(m//ngg) lanal	30- 20- 10- 0.0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)	Detector	Table (o)	Height (cm)		241 Verdi	

-35.69

Peak

314.00

100

Vertical

Pass

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	Product:		Wireles	s Earphone		P	olarity		Horizon	tal
	Mode		Keeping '	Transmitting		Tes	t Voltage		DC3.7	V
Te	mperature		24 0	deg. C,		Hı	ımidity		56% R	Н
Te	est Result:		I	Pass						
	rt 15C Class B 1GHz-18G E+2-	Hz -2				•				
				M1						
	90-		5	W.						
	80-			1						
	70-									
	60-		-f	"						
	50-	<u> </u>	مرابلا الم	\hM.	2					
guv/m)	50-	المناهد والمناه			We cantile	dhur i				
level (dBuV/m)	40-	A CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM			A STATE OF THE PARTY OF THE PAR	The later of the Marie	والمسائل والمال والمراود ومواور		and other tasks of the original trade	Market advertige Nova
	30-									
	20-									
	10-									
	0.0-L 2470			248	3.5 Frequency (MHz)					2500
	T	-	1	1				1	1	1
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdid

No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480.242	88.90	-3.57	74.0	14.90	Peak	145.00	100	Horizontal	N/A
2	2483.500	52.24	-3.57	74.0	-21.76	Peak	140.00	100	Horizontal	Pass

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I	Product:		Wireless I	Earphone		Detect	tor	Vertical			
	Mode	F	Keeping Tr	ansmitting		Test Voltage			DC3.7V		
Te	mperature		24 de	g. C,		Humid	lity		56% RH		
Te	est Result:		Pas	SS							
	rt 15C Class B 1GHz-18G	-lz -2						•			
	90-		M	41							
	80-			•							
	70-										
	60-										
			- /								
	00-		_/								
(m//	50-			M2							
l (dBuV/m)	50-	والمرابع المرابع المرا		M2	Market and the combination	مرات شمر عمليلند ومان ۱۱ با ۱۹۸۸	hs. al-hai al-basadh	nesidashir ke lambih	ورون المرافقة بنوان في المرافعة المرافع	و مو و و الموادي . و و الم	
level (dBuV/m)	40-	agesti alla talah, a asa garan dib <mark>a</mark> d	war	M2	handrade sheepe ciphaghan anga dhiin dhad	on Philippipalane, philippipalane, principle	hite also hai gi pli que dife	ternakdaarkii subsp. ksysseelida	ternedigated of the later with the later of	Mandallana	
level (dBuV/m)	50-	anethall tally nantonish dhe		M2	nandra de desega i se la planta de la compansión de la compansión de la compansión de la compansión de la comp	૧૯૧ <u>મ માટે પ્રેક્ષ્</u> ર કર્યા <u>કર્યા તેવા છે. સ્</u> રોક્ષ્ય કર્યા કર્યા હોત	han alubulgi bil qəri dibi	ernekdaarkis, her luguselde	teralizati <sup>ng</sup> palamah <mark>katapi</mark> dapi and pan	. Marcontable seap	
level (dBuV/m)	40-	negativalit. Likebonen en santi dib <mark>e</mark> d	w <sup>d</sup>	M2	Market State of the State of th	er til de general de general de la gener	للمعر مايات زوز الإرداد فأو	eraktaakii, ku laasiis	ternelli neil <sup>si</sup> ginis ra <mark>dias</mark> pi kaptus krons	Acceptable section	
level (dBuV/m)	50- 40- whiteness and additional addi	معرض المستعددة والمستعددة والمستعدد والمستعد		M2	ne new paper de la company	ન છે. પ્રેમ્પ કંકુતાના અમે હોય અન્યુર અને પહિ	he, alubulas la que alta	termekskaarkitsher lagnoofda	encient phiereday de graphor	According to	
	50- 40- 30- 20-	negativalit. Adab sampt aparasi dib <mark>a</mark> d		M2		o VIII si sigara si Miligia ang aga agin da ka	لماد ماسانين في ود فاق	ro-ngalakan kira dap Jayara Ha	maliyadi Palis malikadi di Afrikada hari	in the count to the state of	
	30- 20-	nenthreild Lidebruchte werteit bliede		M2 2483.5		ન જીવિતાર કર્યો હોય જાત કરવો હોય જિલ્લા	له و حالت الهوام ال	terneyk dan de kir kep layarak kir	emaliyadi Palis makerida garantusan		
	30- 20- 0.0-	Results	Factor		5	Detector	Table	Height	ANT	2500	
	30 - 20 - 10 - 2470		Factor (dB)	T	5 Frequency (MHz)					2500	
	30- 20- 10- 2470	Results		Limit	5 Frequency (MHz)		Table	Height		2500 Verdid	

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 and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK 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 1.6dBi Max. It fulfills the requirement of this section. Test Result: Pass

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SK										
Product:	Wire	eless Earpl	none		T	Test Mode: Keep to			nsmittii	ng
Mode	Keepi	ng Transm	nitting		Test Voltage DC3.7V					
Temperature		24 deg. C,			I	Humidity		56%	RH	
Test Result:		Pass				Detector		P	K	
dB Bandwidth	8	883.77kHz	Z					-	-	
<u> </u>	Marker	1 [T1 r	ndB]	RI	BW	30 k	Hz R	F Att	20	dВ
Ref Lvl	ndB		.00 dB	VI	ЗW	100 k	Hz			
10 dBm	BW 883	3.767535	507 kHz	Sī	ИT	8.5 m	s U:	nit		dBm
10						<b>v</b> <sub>1</sub>	[T1]	- (	0.21	dBm
			1					2.40187		GHz
0			Ĭ,	^ ^		ndF	3	20	0.00	dB
			/ • ~	$ \vee $	6	BW	88	3.76753	507 ]	кНz
-10			Λ/		<u> </u>	$ abla_{\mathrm{T}1}$	[T1]	-20		dBm
			/ `			\ \NT₹TI	T1]	2.40158		GHZ
-20		TI					[TI]	2.40247		abm GHz
1MAX						V	Ĺ	2.1021	101	2112
-40										
-50	$\wedge \sqrt{}$						\u			
-60								\	han	WL,
70										
-80										
-90 Center 2.40				kHz/					an 3 l	Į.

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Product:	Wireless Earphone						est Mode:		Keep transmitting			
Mode	Keeping Transmitting						est Voltage		DC3.7V			
Temperature	24 deg. C,						Humidity		56% RH			
Test Result:	Pass					Detector		]	PK			
20dB Bandwidth	Bandwidth 88											
<u>r</u>		Marker	1 [T1 n	ndB]	R	BW	30 kI	Hz Rl	7 Att	20 dB		
Ref Lvl		ndB	20.	00 dB	V	BW	100 ki	Hz				
10 dBm		BW 883	3.767535	07 kHz	S	WT	8.5 ms	s Uı	nit	dBm	ı	
10							<b>v</b> <sub>1</sub>	[T1]	- (	.05 dBm	A	
				1					2.44087	675 GHz	A	
0				M	~ ^		ndB		20	.00 dB		
					V	$\setminus$	BW $oldsymbol{ abla}_{ ext{T1}}$	88	3.76753	507 kHz		
-10				~		4	V T-1	[T1]	2.44058	.83 dBm 818 GHz		
			ma N	/			V <sub>T</sub> ZT2	[T1]	-20	.01 dBm		
-20							- <del></del>		2.44147	194 GHz		
1MAX			$\sim$				V	(			1M2	
-30		\ <sup>^</sup>						T <sub>M</sub>				
-40		V						V.	m			
-50	<b>V</b>								A	whom		
-60										•		
-70												
-80												
-90												
Center 2	.441 GH	Iz		300	kHz/	•	•		Spa	n 3 MHz		

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GFSK										
Product:	V	Vireless Earpho	one		Test Mode:		Keep tra	ansmitting		
Mode	Ke	eping Transmi	tting		Test Voltage	•	DC3.7V 56% RH			
Temperature		24 deg. C,			Humidity					
Test Result:		Pass			Detector		PK			
20dB Bandwidth		859.72kHz								
Ref Lvl	ndB		00 dB	RB VB	W 100 k	Hz	F Att	20 dB		
10 dBm	BW	859.719438	888 kHz	SW	T 8.5 m	ıs Uı	nit	dBm	l -	
0			1		<b>▼</b> 1	[T1]	2.47987	.14 dBm	Α	
-10				$\mathcal{M}$	ndF BW $ abla_{\mathrm{T}}$	85 [T1]	9.71943 -19	.00 dB 888 kHz .96 dBm		
-20		T	<b>/</b>		V <sub>T2</sub> ∇ <sub>T2</sub>	? [T1]	2.47958 -19 2.48044			
1MAX -30					\	<u>\</u>	2.10011	750 GHZ	1MA	
-40						M				
-50						4				
-60	V*						\	what		
-70										
-80										
-90 Center 2	.48 GHz		300	kHz/		Span 3 MHz				
		13:46:09		-,			220	<b>-</b>		

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Product:	Wire	eless Earph	none		T	est Mode:		Keep tran	smitting	
Mode	Keepi	ng Transm	itting		Te	est Voltage	DC3.7V			
Temperature		24 deg. C,		Humidity 56% RH					RH	
Test Result:	Pass					Detector		PI	Κ	
lB Bandwidth		1.226MHz	1							
	Marker	1 [T1 r	ndB]	R	BW	30 k	Hz R	F Att	20 dB	
Ref Lvl	ndB	20.	00 dB	V	BW	100 k	Hz			
10 dBm	BW 3	L.226452	291 MHz	S	WT	8.5 m	s U	nit	dBm	
10						<b>v</b> <sub>1</sub>	[T1]	- 0	.25 dBm	
			1					2.40187	675 GHz	
0			$\wedge$	$\wedge$		ndE	3	20	.00 dB	
				h.	\	BW Wh. ▽TI	[T1]	1.22645		
10		~V			<u>√</u>		[TI]	2.40141		
		- <del></del>				$ abla_{\mathrm{T1}}$	ra[T1]	-20	.34 dBm	
20		7					<u> </u>	2.40264	028 GHz	
1MAX										
30										
40							<u> </u>	my	ny	
50									hav.	
60										
70										
80										
90										
Center 2.40	2 GHz		300	kHz/				Spa	n 3 MHz	

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Product:		Wirel	ess Earpho	one		Т	est Mode:		Keep tra	ansmitting	
Mode			g Transmi				est Voltage		DC3.7V 56% RH		
Temperature			4 deg. C,	5			Humidity				
Test Result:			Pass				Detector			PK	
0dB Bandwidth		1	257MHz								
oab bandwiddii	l .			1= 1							
Ref Lvl		Marker ndB	1 [T1 r	.00 dB		BW	30 k 100 k		₹ Att	20 dB	
10 dBm			.256513			WT	8.5 m		nit	dBm	ì
10				I							1
							<b>V</b> 1	[T1]	-0	.13 dBm	A
0				1			ndE		2.44087	675 GHz	
				<i> </i>	$\wedge$		BW		1.25651	303 MHz	
-10					$\sim$	\_/	√\ <sub>\\</sub> ∇ <sub>T</sub> ;	[T1]	-20	.24 dBm	
						Ť	$\sim$		2.44041	383 GHz	
		Ţ	$\mathcal{F}^{\vee}$				$ abla_{\mathrm{T}2}$	TET1]	-20	.38 dBm	
-20 1MAX			ý.						2.44167	034 GHz	1M
-30											
-50	~~~								WW	Wy.	
-50										W	
-60											
-70											
-80											
-90 Center 2	.441 GH	Iz		300	kHz/				Spa	n 3 MHz	
Date: 4.					/				21,0		

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/4DQPSK												
Product:		Wirel	ess Earpho	one		Γ	est Mode:		Keep tra	ansmitting		
Mode	Keeping Transmitting 24 deg. C,					Test Voltage Humidity		e	DC3.7V 56% RH			
Temperature												
Test Result:		Pass					Detector		]	PK		
20dB Bandwidth		1.	251MHz									
₹ <b>X</b>		Marker	1 [T1 r	ndB]	R	BW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB		00 dB		BW	100 k			_		
10 dBm		BW 1	.250501	.00 MHz	S	SWT	8.5 m	ns U	nit	dBn	n =	
							$\blacktriangledown_1$	[T1]	- (	.13 dBm	A	
0				1					2.47988	277 GHz		
				$\setminus$	$\land$		ndI BW		20 1.25050	0.00 dB		
1.0			ا م م م ا	\	$\sim$	$\sqrt{}$	M√√ VT:	[ [T1]	-19	100 MHz 3.79 dBm		
-10			$\sqrt{\sim}$	V					2.47941			
		j	Ln.				$\nabla_{\mathrm{T}}$	TPT1]	-19	.99 dBm		
-20			-					\alpha	2.48066	433 GHz	1MA	
-30											Im	
-40									W	wh		
-50										W		
-60												
-70												
-80												
-90 Center 2	.48 GHz	·		300	kHz/				Spa	an 3 MHz	j	
Date: 4	.AUG.20	23 13:	48:35									

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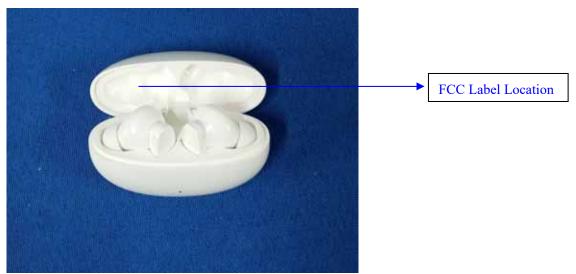


#### 10.0 FCC ID Label

#### FCC ID: 2AZBO-N00025

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



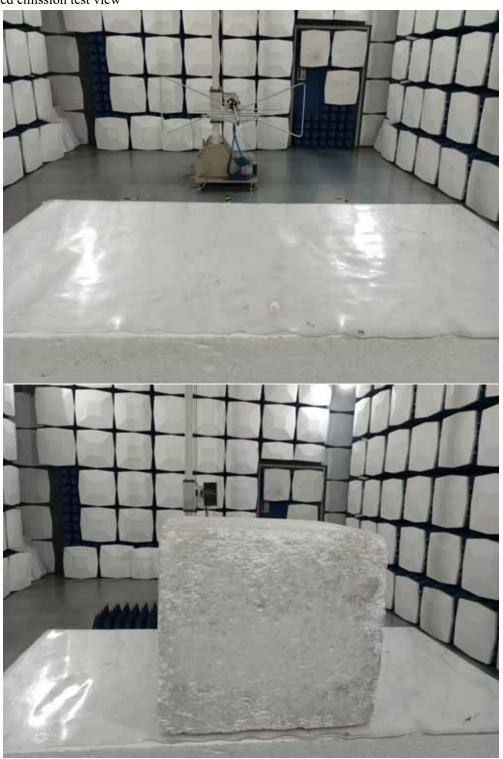
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## Radiated emission test view



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## 11.2 Photographs – EUT

Outside View - charger base



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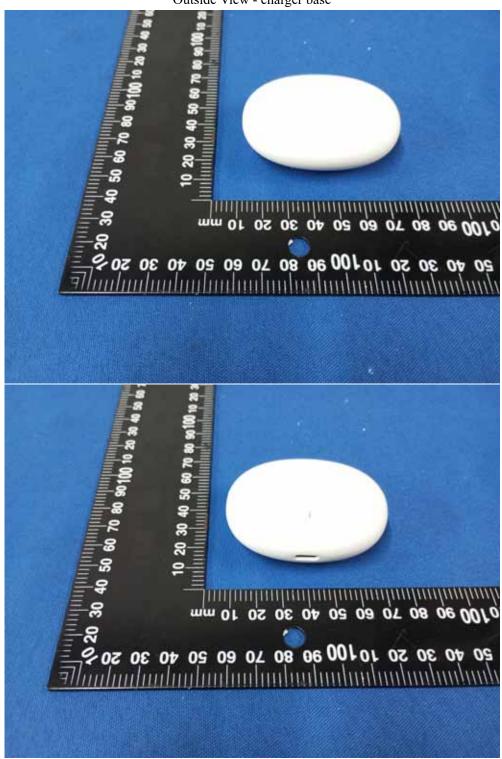
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Outside View - charger base



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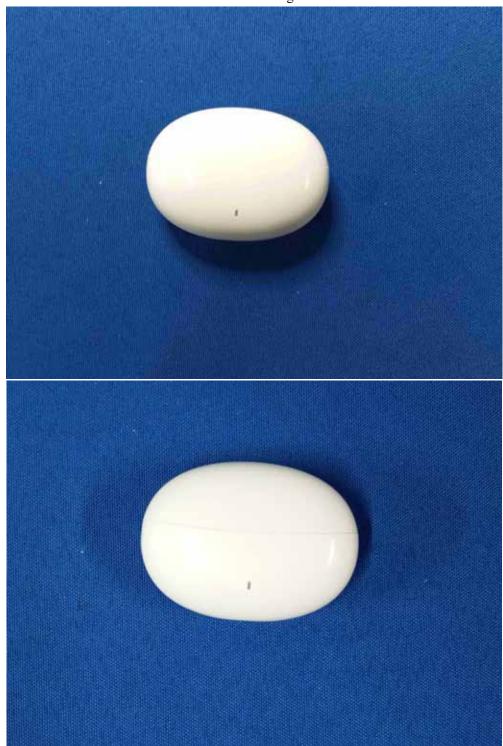
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Outside View - charger base



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Outside View - charger base



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Outside View - charger base



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Inside View - charger base



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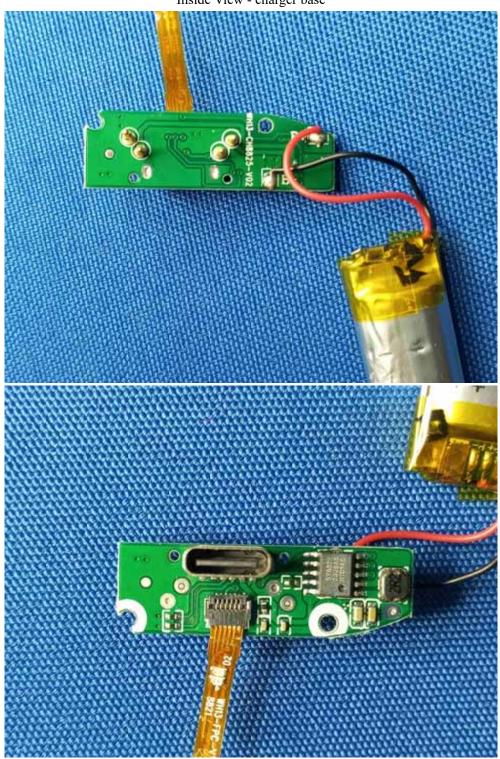
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Inside View - charger base



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Outside View - Left earphone



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Outside View - Left earphone



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Inside View - Left earphone



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Inside View - Left earphone



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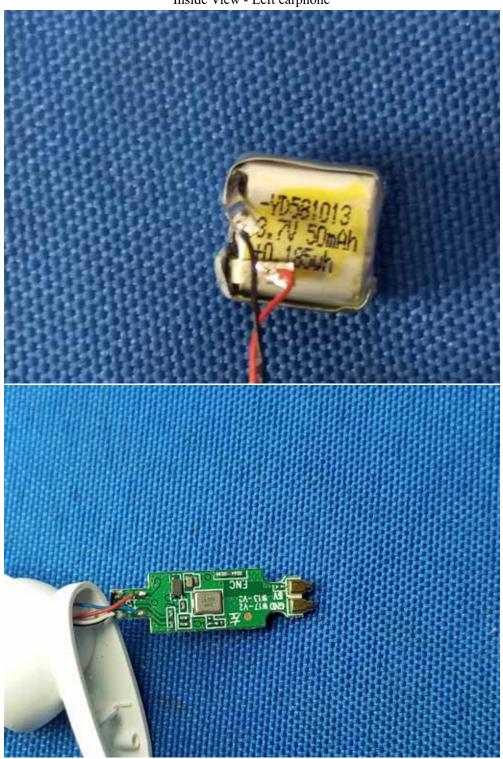
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Inside View - Left earphone



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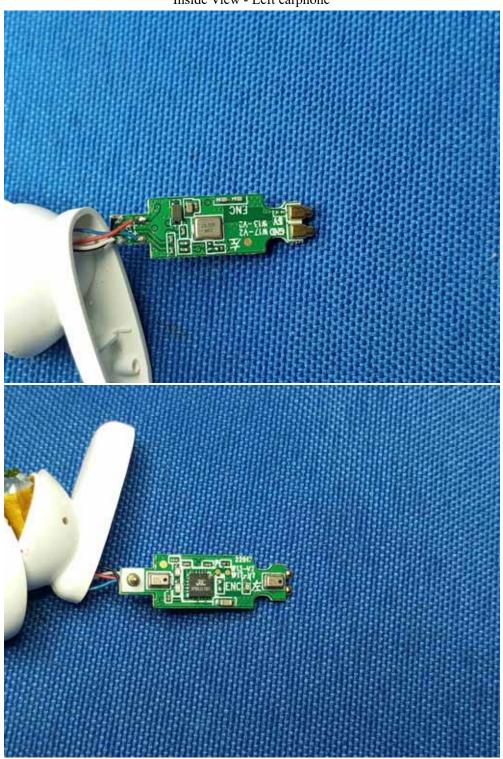
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Inside View - Left earphone



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Inside View - Left earphone



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Outside View - Right earphone



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Outside View - Right earphone



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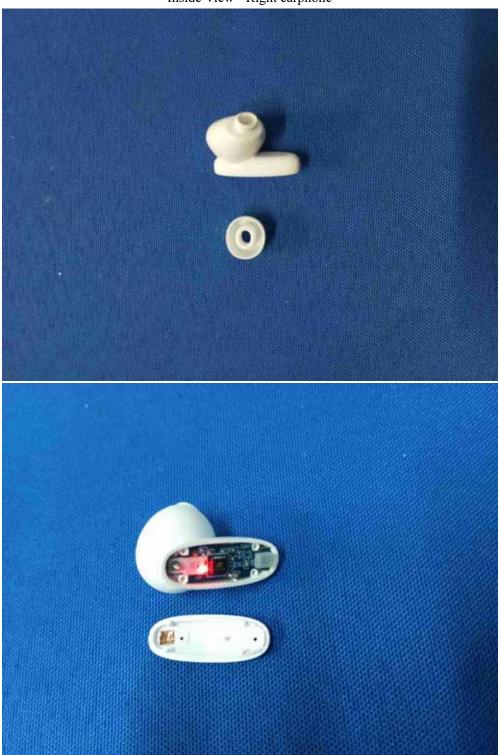
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Inside View - Right earphone



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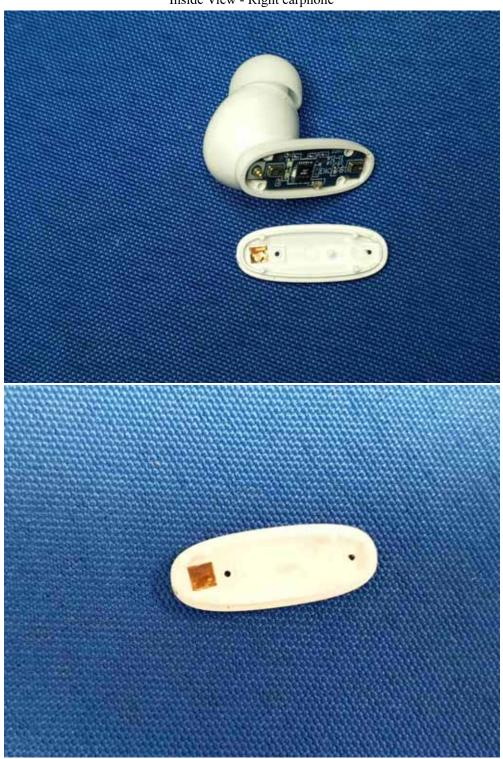
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Inside View - Right earphone



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Inside View - Right earphone



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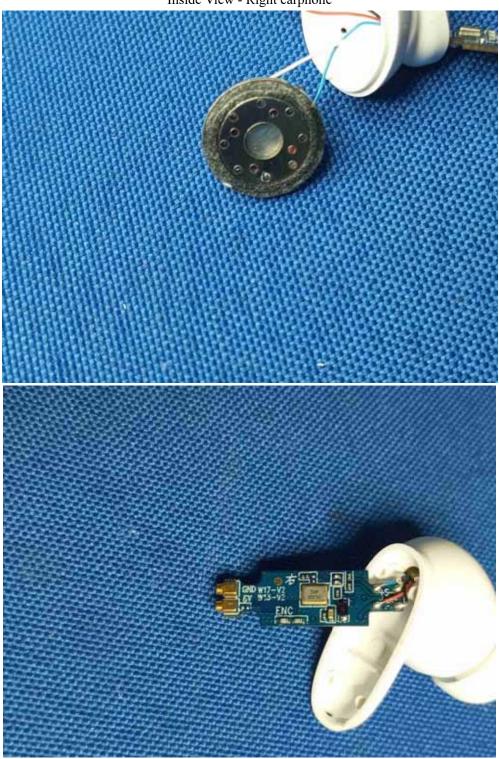
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Inside View - Right earphone



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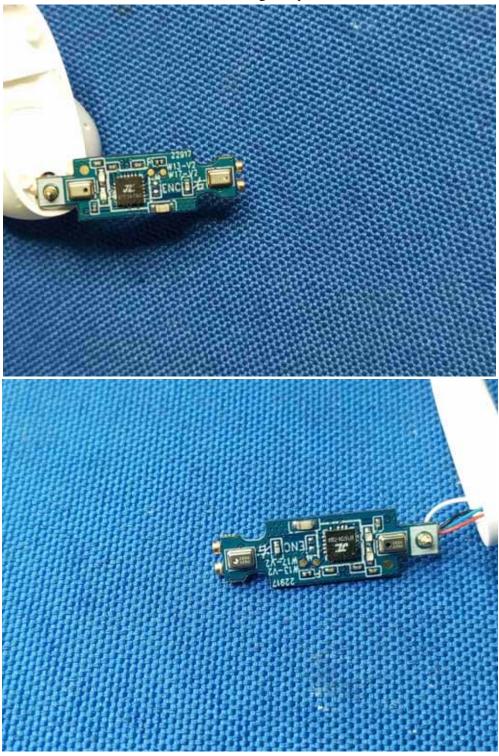
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Inside View - Right earphone



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