

Report No.:	TW2307388E
Applicant:	TECHNOFASHION INC.
Product:	Wireless Earphone
Model No.:	UCCWS07, UCCWS07-1, UCCWS07-2, UCCWS07-3, UCCWS07-4
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 Tong	

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



## **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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#### 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<br/>Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number: 744189For 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:	UCCWS07
Additional Model Name	UCCWS07-1, UCCWS07-2, UCCWS07-3, UCCWS07-4
Rating:	DC5V input or Built-in DC3.7V, 25mAh Li-ion battery for earphones;
	DC5V/0.2A input or Built-in DC3.7V, 230mAh Li-ion battery for charger base.
Modulation Type:	GFSK, JJ/4DQPSK for Bluetooth
Operation Frequency:	2402-2480MHz
Channel Number:	79
Channel Separation:	1MHz
Hardware Version:	V1
Software Version:	236
Serial No.:	UCCWS07202306
Antenna Designation	Chip antenna with gain 1.6dBi Max for left and right earphones (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration 2023-07-24 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

Andy -Xing

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	2024-07-1

#### 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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The EUT has been tested according to the following specifications:

#### 3.0 **Technical Details**

#### 3.1 Summary of test results

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

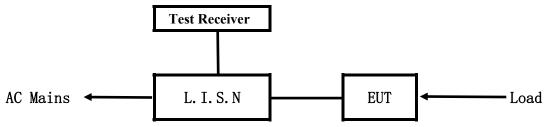
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#### 5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

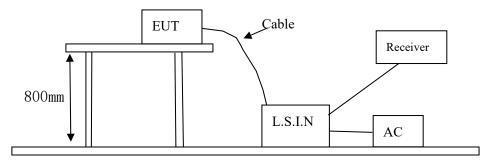


EUT: Equipment Under Test

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. EUI

Device	Manufacturer	Model	FCC ID
Wireless Earphone	TECHNOFASHION INC.	UCCWS07, UCCWS07-1, UCCWS07-2, UCCWS07-3, UCCWS07-4	2AZBO-N00026

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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 (d	lB μ 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
$5.00 \sim 30.00$	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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Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Humidity: 65%RH Atmospheric Pressure: 101 kPa Temperature: 25°C EUT set Condition: Charging + Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B\_QP 60 FCC Part 5 CE-Class B\_AVe 50 40 30 20 10 neak AVG 0 -10 -20 (MHz) 0.150 30.000 Frequency Reading Factor Level Limit Margin P/F No. Detector (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 1 0.1510 21.28 9.78 31.06 65.94 -34.88 QP Ρ 2 Ρ 0.1510 6.17 9.78 15.95 55.94 -39.99 AVG 7.13 3 0.1980 9.75 16.88 53.69 AVG Ρ -36.81 17.57 9.75 27.32 Ρ 4 0.1990 63.65 -36.33 QP 5 0.6220 10.60 9.78 20.38 56.00 -35.62 QP Р 6 0.6230 2.59 9.78 12.37 AVG Ρ 46.00 -33.63 7 Р 4.75 14.74 QP 6.4520 9.99 60.00 -45.26 6.4740 -7.19 8 9.99 2.80 50.00 -47.20 AVG Ρ 9 15.7810 12.86 10.43 23.29 -36.71 QP Ρ 60.00 10 15.7910 -3.77 10.43 6.66 50.00 -43.34 AVG Ρ

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**B**: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 25℃ Atmospheric Pressure: 101 kPa Humidity: 65%RH EUT set Condition: Charging + Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B\_QP 60 FCC Part 5 CE-Class B\_AVe 50 40 30 20 10 10 peak AVG 0 -10 -20 (MHz) 30.000 0.150 Factor Frequency Reading Level Limit Margin No. Detector P/F (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 1 0.1539 5.64 9.78 15.42 55.79 -40.37 AVG Ρ 2 0.1550 20.22 9.78 30.00 65.73 -35.73 QP Ρ 3 0.1760 18.74 9.77 28.51 64.67 -36.16 QP Ρ 4 0.1770 7.15 9.77 16.92 54.63 -37.71 AVG Ρ 5 0.6220 7.20 9.78 Ρ 16.98 56.00 -39.02 QP 6 0.6220 -2.57 9.78 7.21 46.00 -38.79 AVG Ρ 7 Ρ 2.0730 1.89 9.80 11.69 56.00 -44.31 QP 2.0750 -10.09 -0.29 AVG Ρ 8 9.80 46.00 -46.29 -49.34 9 6.2150 -9.32 9.98 0.66 50.00 AVG Ρ 6.2250

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15.5960

15.6080

4.43

10.43

-4.79

10

11

12

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14.41

20.85

5.63

60.00

60.00

50.00

-45.59

-39.15

-44.37

QP

QP

AVG

Ρ

Ρ

Ρ

9.98

10.42

10.42



#### 6 Radiated Emission Test

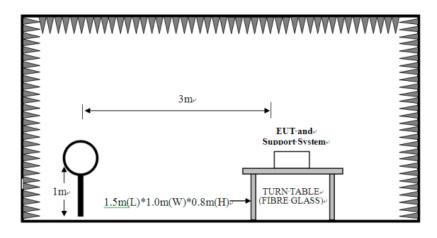
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 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
Above IGH2	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



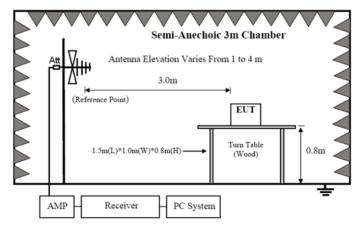
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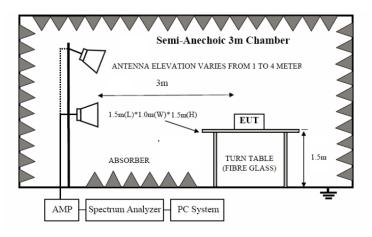
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For radiated emissions from 30MHz to1GHz



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 Stre	ength of Fundamental (3m)	Field S	trength of Harmonics (3m)
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m

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2	2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
Note:	1. RF Field Streng	gth (dBuV)	$= 20 \log \text{RF Volt}$	age (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.

#### Frequency Range (MHz) Distance (m) Field strength (dB $\mu$ V/m) 0.009-0.490 3 $20\log(2400/F(kHz)) + 40\log(300/3)$ 3 $20\log(24000/F(kHz)) + 40\log(30/3)$ 0.490-1.705 3 1.705-30 69.5 30-80 3 40.0 88-2 6 3 43.5 216-960 3 46.0 Above 960 3 54.0

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

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  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.

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

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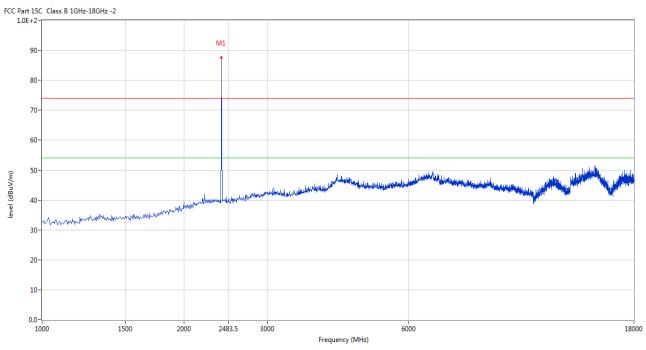


# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

#### Left earphone

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	87.68	-3.57	114.0	-26.32	Peak	140.00	100	Horizontal	Pass

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

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2402

1

80.23

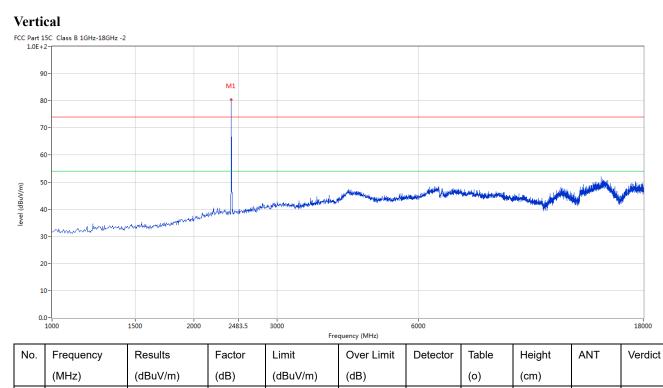
-3.57

114.0



Pass

Vertical



Peak

141.00

100

-33.77

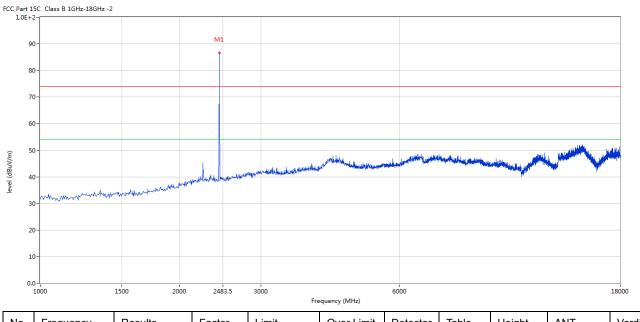
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#### Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal

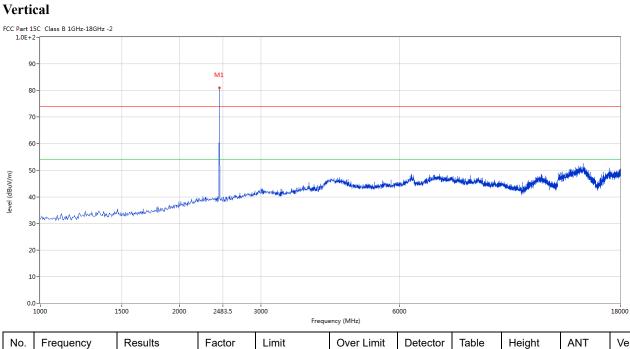


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	86.66	-3.57	114.0	-27.34	Peak	162.00	100	Horizontal	Pass

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

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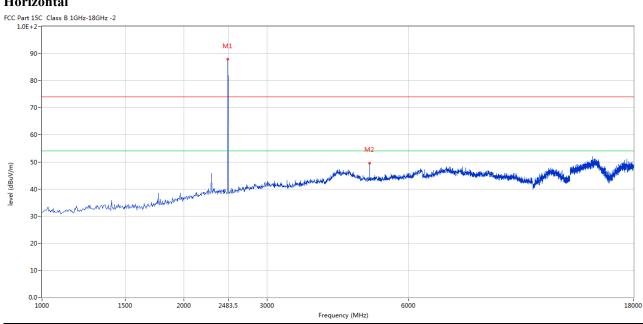
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	80.94	-3.57	114.0	-33.06	Peak	52.00	100	Vertical	Pass

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

#### Horizontal

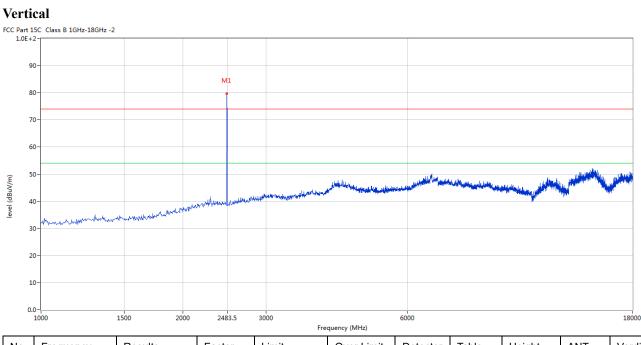


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	88.78	-3.57	114.0	-25.22	Peak	207.00	100	Horizontal	Pass
2	4960.010	49.52	3.36	74.0	-24.48	Peak	142.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	79.73	-3.57	114.0	-34.27	Peak	160.00	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.

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

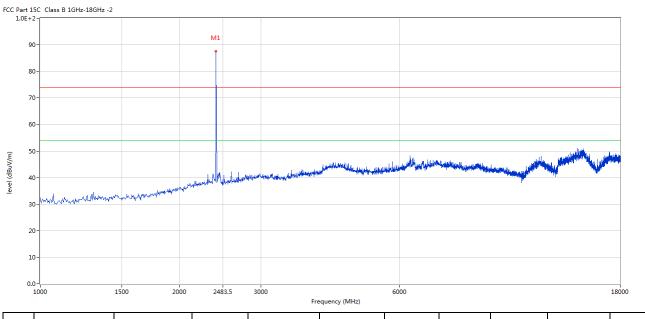
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#### **Right earphone**

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

#### Horizontal

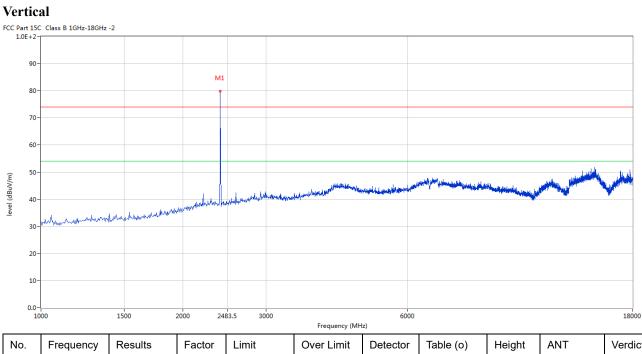


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	87.70	-3.57	114.0	-26.30	Peak	292.00	100	Horizontal	Pass

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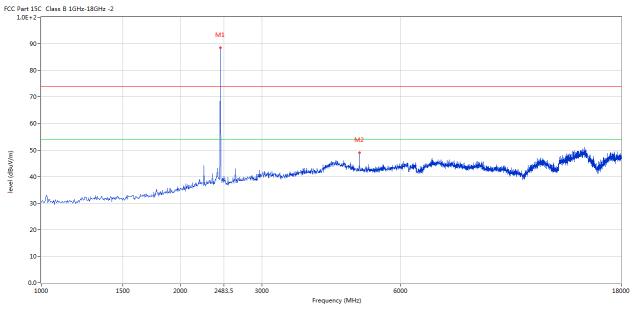
No	э.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1		2402	79.88	-3.57	114.0	-34.12	Peak	198.00	100	Vertical	Pass

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

#### Horizontal

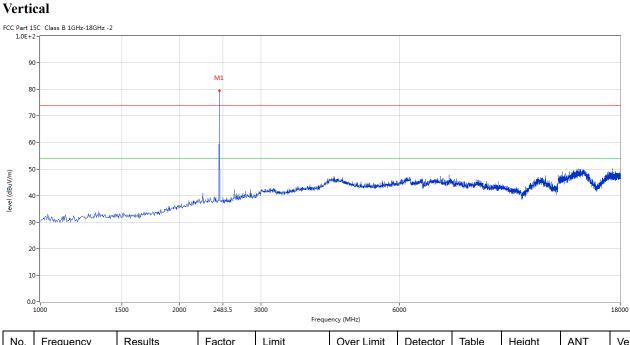


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	87.43	-3.57	114.0	-26.57	Peak	312.00	100	Horizontal	Pass
2	4883.529	48.90	3.20	74.0	-25.10	Peak	307.00	100	Horizontal	Pass

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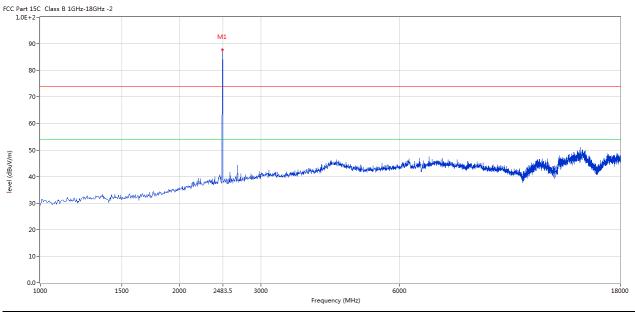
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	79.55	-3.57	114.0	-34.45	Peak	57.00	100	Vertical	Pass

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

#### Horizontal

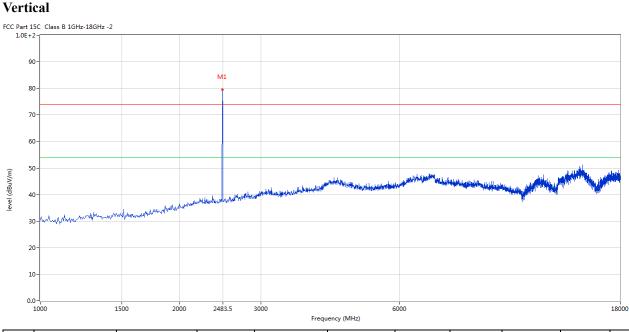


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	87.73	-3.57	114.0	-26.27	Peak	86.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	79.51	-3.57	114.0	-34.49	Peak	317.00	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

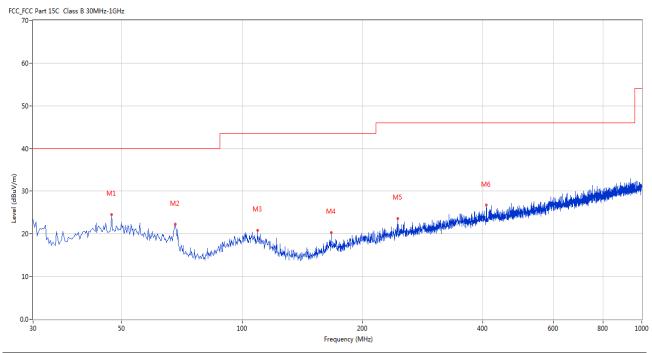
#### Left earphone

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	47.213	24.53	-11.41	40.0	15.47	Peak	175.00	100	Horizontal	Pass
2	68.063	22.22	-14.68	40.0	17.78	Peak	282.00	100	Horizontal	Pass
3	109.278	20.86	-13.56	43.5	22.64	Peak	237.00	100	Horizontal	Pass
4	166.978	20.34	-16.08	43.5	23.16	Peak	70.00	100	Horizontal	Pass
5	245.529	23.59	-12.21	46.0	22.41	Peak	32.00	100	Horizontal	Pass
6	408.690	26.70	-8.35	46.0	19.30	Peak	267.00	100	Horizontal	Pass

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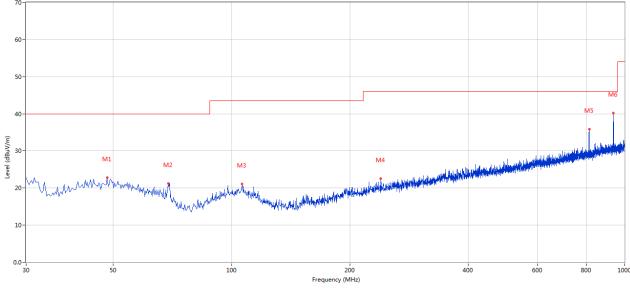
#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

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	48.183	22.83	-11.26	40.0	17.17	Peak	252.00	100	Vertical	Pass
2	69.033	21.24	-15.24	40.0	18.76	Peak	305.00	100	Vertical	Pass
3	106.368	21.14	-13.34	43.5	22.36	Peak	61.00	100	Vertical	Pass
4	239.710	22.52	-12.33	46.0	23.48	Peak	31.00	100	Vertical	Pass
5	812.594	35.88	-2.94	46.0	10.12	Peak	49.00	100	Vertical	Pass
6	937.451	40.26	-1.78	46.0	5.74	Peak	15.00	100	Vertical	Pass

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#### **Right earphone**

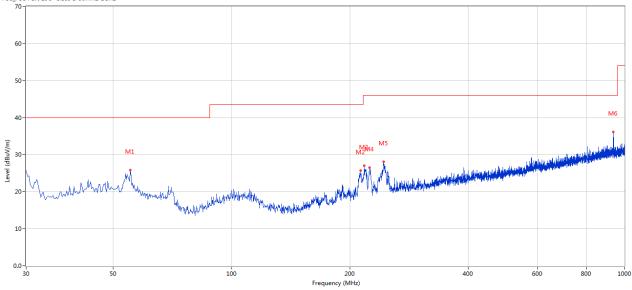
Radiated Emission In Horizontal (30MHz----1000MHz)

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	55.214	25.84	-11.83	40.0	14.16	Peak	328.00	100	Horizontal	Pass
2	213.284	25.73	-13.64	43.5	17.77	Peak	154.00	100	Horizontal	Pass
3	217.648	27.03	-13.45	46.0	18.97	Peak	177.00	100	Horizontal	Pass
4	224.679	26.51	-12.96	46.0	19.49	Peak	324.00	100	Horizontal	Pass
5	243.832	28.03	-12.23	46.0	17.97	Peak	336.00	100	Horizontal	Pass
6	937.451	36.17	-1.78	46.0	9.83	Peak	78.00	100	Horizontal	Pass

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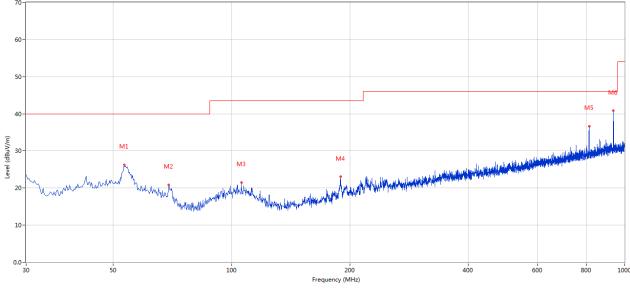
#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

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	53.274	26.21	-11.51	40.0	13.79	Peak	47.00	100	Vertical	Pass
2	69.275	20.78	-15.38	40.0	19.22	Peak	331.00	100	Vertical	Pass
3	105.884	21.44	-13.29	43.5	22.06	Peak	115.00	100	Vertical	Pass
4	189.283	23.00	-14.33	43.5	20.50	Peak	163.00	100	Vertical	Pass
5	812.594	36.65	-2.94	46.0	9.35	Peak	350.00	100	Vertical	Pass
6	937.451	40.81	-1.78	46.0	5.19	Peak	33.00	100	Vertical	Pass

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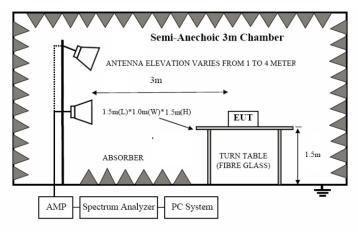


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- 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.

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#### 7.6 Test Result

# Left earphone

	Product:		Wireless I	Earphone		Polar	ity		Horizontal	
	Mode	k	Keeping Tr	ansmitting		Test Vol	ltage		DC3.7V	
Te	mperature		24 de	g. C,		Humic	lity		56% RH	
Τe	est Result:		Pa							
	Part 15C Class B 1GHz-18 .0E+2-	IGHz -2								
1	.02 +2								M1	
	90-								$\wedge$	
	80-								(	
	70-							/		
	<b>CO</b>									
	60-							M2		
	50-							/ <b>.</b>	\	
level (dBuV/m)		here any address is your full have have been been been been been been been be	få i Versi og stad og stad som	en former of a state of the second state of the	a a sa fa bada da bada ka sa sa da sa da sa sa sa	N Helefitts delse	13 14/10	Whend		uddu
level (dBuV/m)		ran, asaa ay daabaa inay soo	et we all the state of the stat	e, transisioner factories a substated	, produced the standard and the standard an	N Hayatha daya da da yan da baba		White and the second seco		uddala
level (dBuV/m)	40 - waxaalihta dhaqdaada 30 -	ran yani kani ya dan kani ya ka	farmen alfart en stjeder en e	en denne i sel en fa vela post de post i de post i de post i de pos	, un de la completence	N Hareffin Hills Alexandresinds Anabal	13 19	Wilds		undelin
level (dBuV/m)	40	renn either an de an	<u>ft men slåd den skolder om</u>	er, dening salat kan ban ban ban ban ban ban ban ban ban b	, yang pang pang pang pang pang pang pang p	n NY MARINA di yada tu da	13 William Anna Maria			
level (dBuV/m)	40	renn either an de an	<u>\$1,770-3</u> [24]-525-5-1-1-9	en derein underständen in de samtilikerin	frequency (MHz)	n na shan ta ka sheka s	13 19 19 19 19 19 19 19 19 19 19 19 19 19			2410
	40	Results	Factor	Limit		Detector	na Martine de la composition Table	Height	ANT	2410
	40				Frequency (MHz)					2410
ło.	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	Results	Factor	Limit	Frequency (MHz)		Table	Height		2410
<i>ا</i> ٥.	40- 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)	ANT	2410 Verdi N/A
	40- 30- 20- 10-  2350 Frequency (MHz) 2402.247	Results (dBuV/m) 87.56	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 13.56	Detector Peak	Table (o) 139.00	Height (cm) 100	ANT Horizontal	2410 Verdi

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	Product:		Wireless I	Earphone		Detect	tor		Vertical	
	Mode	1	Keeping Tr	ansmitting		Test Vol	tage		DC3.7V	
Te	emperature		24 de	g. C,		Humid	ity		56% RH	
Te	est Result:		Pa	SS						
	rt 15C Class B 1GHz-18GH	+z -2								
	90								MI	
level (dBuV/m)	40-	h denos di solo di secon con con consectore que	nla hasala manganganganganganganganganganganganganga	ulit 6. Jan tale taj de Minulf neatring		M3		M2 •		2410
	40				Frequency (MHz)	R. a.c. //si.logian	enethen for bein compile			2410
	40	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)					ANT	2410
No.	40- 10- 0.0- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)	R. a.c. //si.logian	Table	Height		2410
No.	40	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2410 Verdic
No.	40- 10- 20- 20- 10- 2350 Frequency (MHz) 2401.887	Results (dBuV/m) 80.21	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 6.21	Detector	Table (o) 145.00	Height (cm) 100	ANT Vertical	2410 Verdic

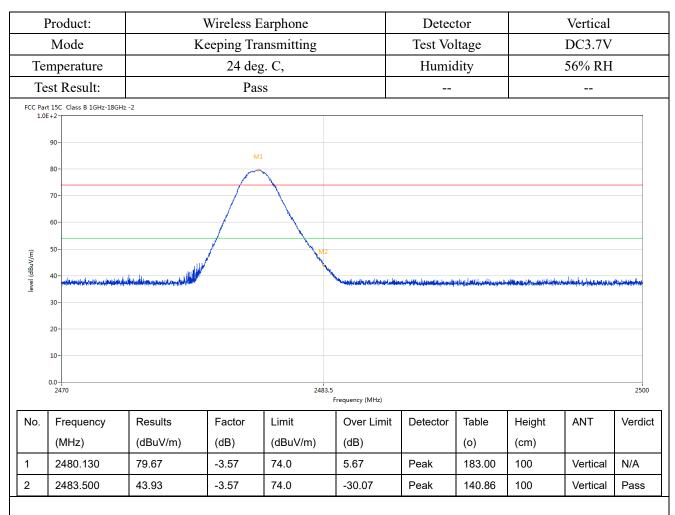
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	Product:		Wireles	s Earphone		Р	olarity		Horizont	al
	Mode		Keeping '	Transmitting		Tes	t Voltage		DC3.7V	7
Те	mperature		24 0	leg. C,		H	umidity		56% RH	ł
Te	est Result:		I	Pass						
	rt 15C Class B 1GHz-18G	Hz -2								
1.0	E+2-			M1						
	90-		C	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
	80-			- M						
	70-		_/_	<u> </u>						
				$\lambda$						
	60-			× N	12					
		6	N .		N					
(E	50-		r		1. No.					
(dBuV/m)			,		The state of the s				, hat so shallo	1 6.4.
level (dBuV/m)	40- 10-10-00-00-00-00-00-00-00-00-00-00-00-0	and a start of the	r		- anti-likek		an sing to get by a line of the second	hiteshopsu bergesinghi unturin	anlash yy dan bail haw na angaa k	eljese, silvestilen, songe
level (dBuV/m)		and the second state of th	p.		authority and		n-zin held, Libberg	heicelegen, lesperindilisi serie	salasha a shiribiri ku na anga k	afası vikesiden orma
level (dBuV/m)	40- 10-10-00-00-00-00-00-00-00-00-00-00-00-0	are or manual distribution	, 		a shilles	NA AND AND AND AND AND AND AND AND AND A	ar i in figlif, i litter og som	ىلىدەنىنى ئىلىرىدەييە مەرمىيە مەرمىيە يەرمىيە يەرمىيە يەرمىيە مەرمەنىنى ئىلىرىدە يېرىمىيە يېر	hal bale yezh kara kari kare en an agan da	elgen, vileoitensens
level (dBuV/m)	40- 30-	anor correspondent and the second	, 		and did block		ariindaddadaana	http://p.u.lingosin/il/.ustaci	erlest om tenskulld, om omsensk	elyes, Heiden, Ang
level (dBuV/m)	40 - Juli de la companya de la compa	are correspondent and a second	, 		and the state of t			history, and a second distance	ndrigh gerðiðað hví í dærne en igneði	eljer, Notikaova
level (dBuV/m)	40 - <b>Just da Antonio</b> 30 - 20 -	anarrow managed and the second se		248	33.5 Frequency (MHz)			Magh pon Nampin (U status	nalaph an dhàithni/ideann anigan d	
level (dBuV/m)	40 - Junitati Andrew An	Results	Factor	248 Limit		Detector	Table	Height	ANT	250
	40 - hetelse de charten en 30 - 20 - 10 - 0.0 - 2470		Factor (dB)	Г	Frequency (MHz)					250
	40- 40- 40- 40- 40- 40- 40- 40-	Results		Limit	Frequency (MHz)		Table	Height		2500 Verdia

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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 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.

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#### **Right earphone**

]	Product:		Wireless 1	Earphone		Polar	ity		Horizontal	
	Mode	H	Keeping Tr	ansmitting		Test Vo	ltage		DC3.7V	
Te	mperature		24 de	g. C,		Humic	lity		56% RH	
Te	est Result:		Pa	SS						
	Part 15C Class B 1GHz-18	3GHz -2								
-									M1	
	90-								M	
	80-								/	
	70-							/		
	60-							/	<u> </u>	
						M	M	15 M6 M2		
(m/v	50-						։ Դուսես եսև	lili u M	hu	t. dl
			فال ألمر الماللة الألأة	فارت والمغل والألحاذ المراب ووره	han astan juliana jula tri ata	الليب مساور الفرق 🐧	48			Unit
rel (dBu	40-	at the state of th	a had a second that we want the second s	and the state of the	and the second	AN ALCOUNT OF A DAY		PHT N TI		"WWW
level (dBuV/m)	<b>holistikka</b> akar ina a	anta fi ja pinaka pina la ta fi fi ja na kana kana ka	alaterisaan kanan kaha na	an fan de fa General de fan	and the second secon		anthadhadhadhadh An thaonailte			, which we
level (dBu	40- 30-	per vise produktion for the second second	alageta and the second stress	uallana di Anna andre an Andrea.	an a	and a straight of the state of the	anti-di-dimenti			
level (dBu	<b>holistikka</b> akar ina a	ete izenetzeketeketeketeketeketeketeketeketekete	alage a set for a set of the set	in af lan an de Manue Haff de a	add for a left of a standard and a s	an a	antrafra finan y	aya wat		
level (dBu	30	ote i popula pia la fait de filipare i and	ninika mangka kana kangka ma	eefferen en eeren ee	and the second secon	an a	anta internation			
level (dBu	30-	ote i popula pisci de la constanción		айбаал су <mark>в</mark> и дойна и район.			an kalen kara kara kara kara kara kara kara kar			- <b>m</b> ,
level (dBu	30				Frequency (MHz)					2410
level (dBu	30- 20- 10-	Results	Factor	Limit	Frequency (MHz)	Detector	Table	Height	ANT	
	30- 20- 10- 2350	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	1	Detector	Table (o)	Height (cm)	ANT	
No.	30- 20- 10- 2350 Frequency				Over Limit	Detector Peak		_	ANT	
	30- 20- 10- 2350 Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	Over Limit (dB)		(o)	(cm)		Verdi N/A
No. 1	30- 20- 10- 2350 Frequency (MHz) 2401.812	(dBuV/m) 87.65	(dB) -3.57	(dBuV/m) 74.0	Over Limit (dB) 13.65	Peak	(o) 93.00	(cm) 100	Horizontal	Verdi N/A
No. 1	30- 20- 10- 2350 Frequency (MHz) 2401.812 2400.012	(dBuV/m) 87.65 62.10	(dB) -3.57 -3.57	(dBuV/m) 74.0 74.0	Over Limit (dB) 13.65 -11.90	Peak Peak	(o) 93.00 93.00	(cm) 100 100	Horizontal Horizontal	Verdi N/A Pass
No. 1 2 2**	30- 20- 10- 2350 Frequency (MHz) 2401.812 2400.012 2400.012	(dBuV/m) 87.65 62.10 49.94	(dB) -3.57 -3.57 -3.57	(dBuV/m) 74.0 74.0 54.0	Over Limit           (dB)           13.65           -11.90           -4.06	Peak Peak AV	(o) 93.00 93.00 93.00	(cm) 100 100 100	Horizontal Horizontal Horizontal	Verdi N/A Pass Pass
No. 1 2** 3	30- 20- 10- 2350 Frequency (MHz) 2401.812 2400.012 2400.012 2390.040	(dBuV/m) 87.65 62.10 49.94 37.02	(dB) -3.57 -3.57 -3.57 -3.53	(dBuV/m) 74.0 74.0 54.0 74.0	Over Limit           (dB)           13.65           -11.90           -4.06           -36.98	Peak Peak AV Peak	(o) 93.00 93.00 93.00 119.00	(cm) 100 100 100 100	Horizontal Horizontal Horizontal Horizontal	Verdi N/A Pass Pass Pass

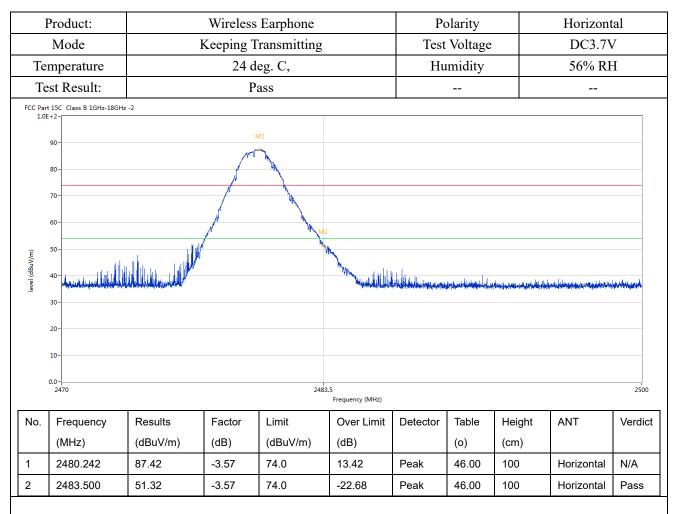
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-	Product:		Wireless 1	Earphone		Detect	tor	Vertical			
	Mode	]	Keeping Tr	ansmitting		Test Voltage		DC3.7V			
Te	emperature		24 deg. C,				lity	56% RH			
Te	est Result:		Pa	ISS							
	rt 15C Class B 1GHz-18Gi E+2-r	Hz -2									
	90								M1		
level (dBuV/m)	40- 40- 20- 10- 2350	serig - ar frigerikk bisserie de	t bayal sectors any by the option	handaidin katon annaididealtait		MBA AND AND AND AND AND AND AND AND AND AN	interneting diagonalise	10 Aur 10 1		2410	
	30- 20- 10- 2350				Frequency (MHz)	n fan fan fan fan fan fan fan fan fan fa	int, chim, deluci d			2410	
	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit		Table	Height	ANT	2410	
No.	30- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdic	
	30- 20- 10- 2350 Frequency (MHz) 2401.797	Results	Factor	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit	Detector	Table	-		2410 Verdic N/A	
No.	30- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdic	
No.	30- 20- 10- 2350 Frequency (MHz) 2401.797	Results (dBuV/m) 79.62	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 5.62	Detector	Table (o) 303.00	(cm) 100	ANT Vertical	2410 Verdic N/A	

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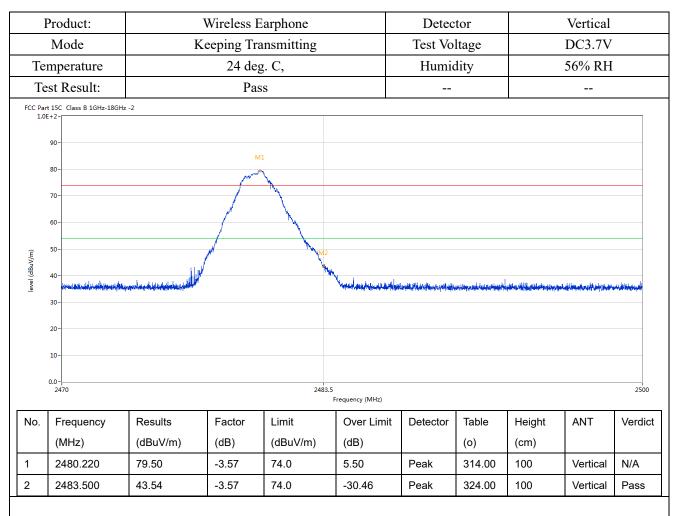




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Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. For Restricted band test, the 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.

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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 PCB antenna. The antenna gain is 1.6dBi Max. It fulfills the requirement of this section. Test Result: Pass

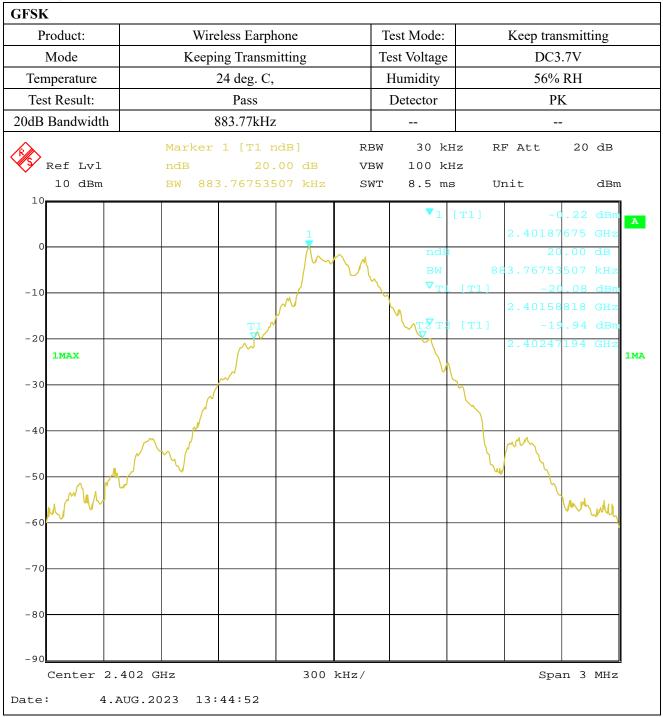
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# 9.0 20dB Bandwidth Measurement

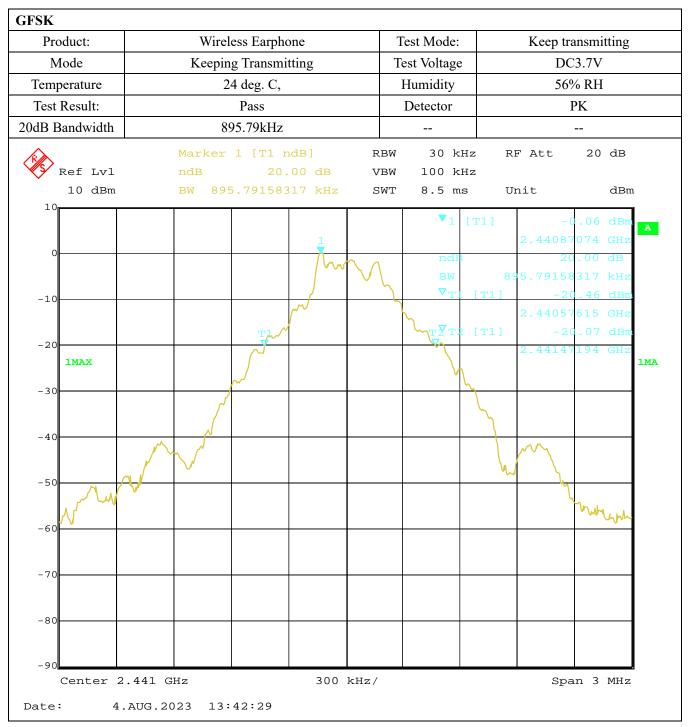
### Left earphone



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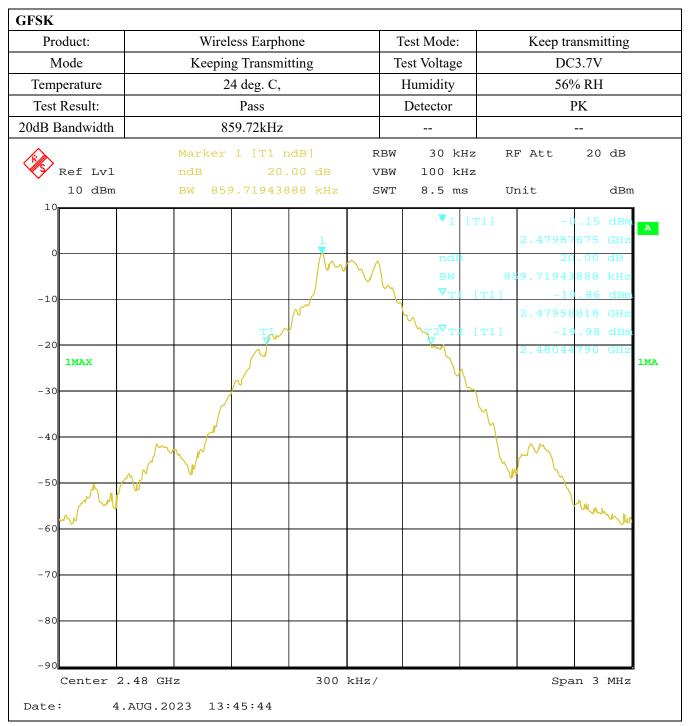




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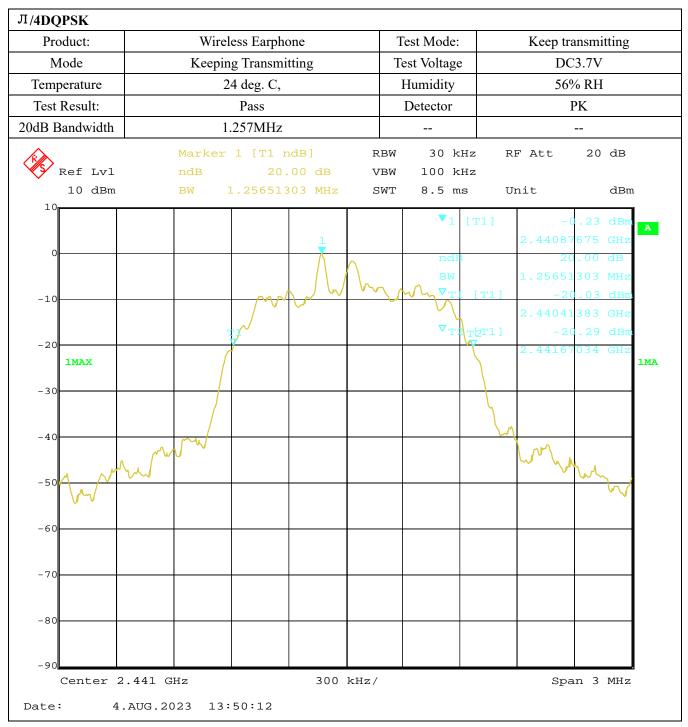
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Product:	Wireless Earphone					est Mode:	Keep transmitting			
Mode	Keeping Transmitting				Test Voltage					
Temperature		24 deg. C,			Humidity		56% RH			
Test Result:	Pass				Detector		РК			
0dB Bandwidth	1.226MHz									
	Marker 1 [T1 ndB]				ЗW	30 k	Hz Ri	RF Att 20 d		дв
Ref Lvl	ndB	20.	.00 dB	VI	ЗW	100 k	Hz			
10 dBm	BW	1.226452	291 MHz	SI	ΤW	8.5 m	s Ui	nit	dBm	n
10						<b>▼</b> 1	[T1]	- 0	1.29 dBm	A
			1					2.40188	277 GHz	
0			Λ	$\wedge$		ndB		20	.00 dB	
				hu		BW √ VTI	[T1]	1.22645	291 MHz .14 dBm	
-10			$\sqrt{2}$		$\checkmark$	$\overline{\mathcal{M}}$		2.40141		
		T				$\nabla_{\mathrm{T}}$	r2[T1]		.53 dBm	
-20		1					<u> </u>	2.40264	028 GHz	1M
-30										1M
-40								mm	han	
-50										
-60										
-70										
-80										
-90 Center 2.4	02 GHz		300	kHz/				Spa	n 3 MHz	

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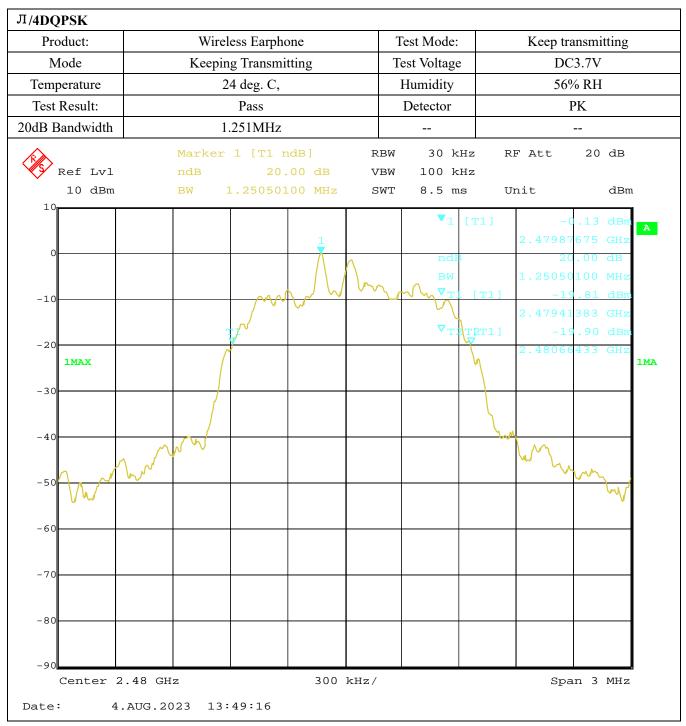




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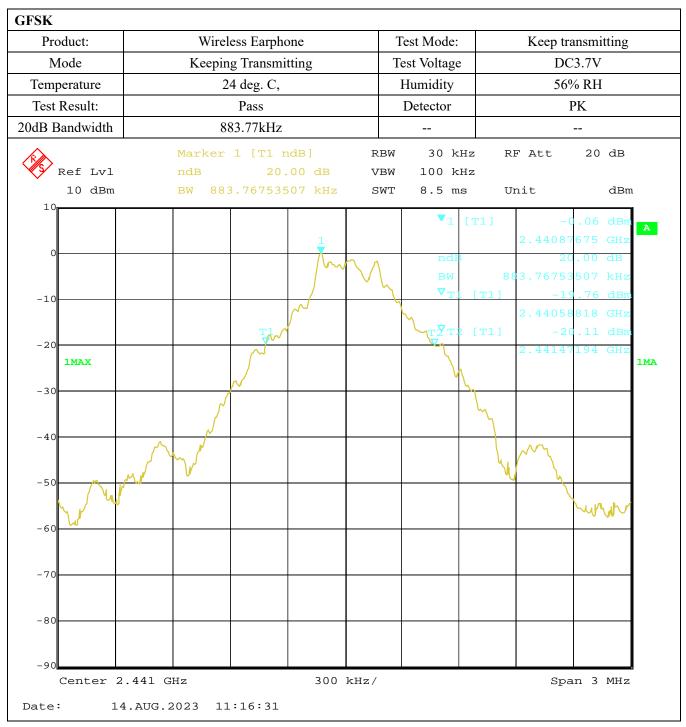


### **Right earphone**

GFSK											
Product:	Wireless Earphone				Test Mode:		Keep transmitting				
Mode	Keeping Transmitting				Test Voltage		DC3.7V				
Temperature	24 deg. C,				Humidity		56% RH				
Test Result:	Pass				Detector		РК				
20dB Bandwidth	889.78kHz										
		Marker	1 [T1 r	ndB]	RI	ЗW	30 k	Hz Ri	F Att	20 de	3
Ref Lvl		ndB		00 dB	VI	ЗW	100 k				
10 dBm		BW 889	9.779559	12 kHz	SI	νT	8.5 m	s Ui	nit	dE	sm
10							<b>v</b> <sub>1</sub>	[T1]	- C	.15 dB	m
				1					2.40188		A
0					~ ^		ndB		20	.00 dB	
					$ \vee $		BW	88	9.77955	912 kH	z
-10						<u> </u>	$\nabla_{\mathrm{T1}}$	[T1]	-19	.98 de	m
							Υ		2.40158		
-20			T1					[T1]	-20	.30 de	m
-20 1MAX			~				× ∖		2.40247	796 GH	Z 1M
							V	L			
-30		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						7			
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	$\bigwedge$	$\gamma$						h	M		
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-60											
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Center 2.	402 GH	Iz		300	kHz/				Spa	.n 3 MH	Z
ate: 14.	AUG.2	023 11	:15:19								

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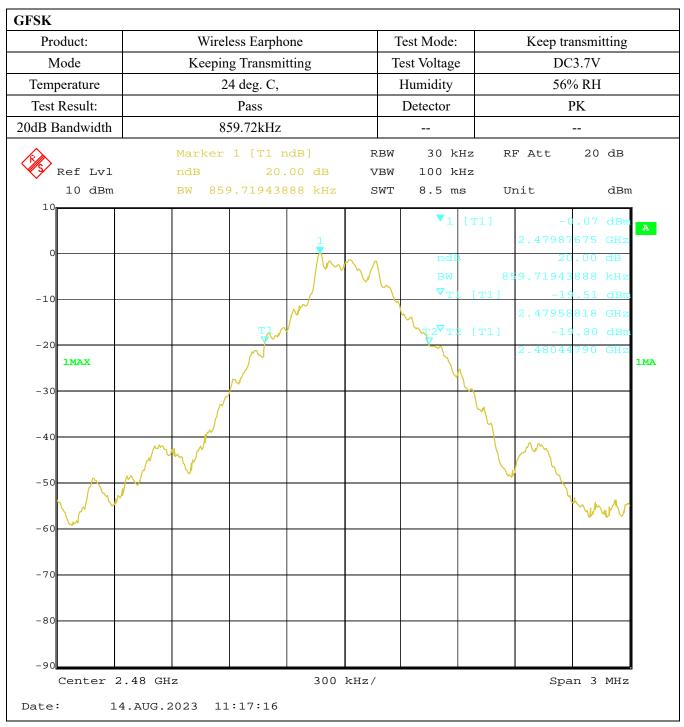




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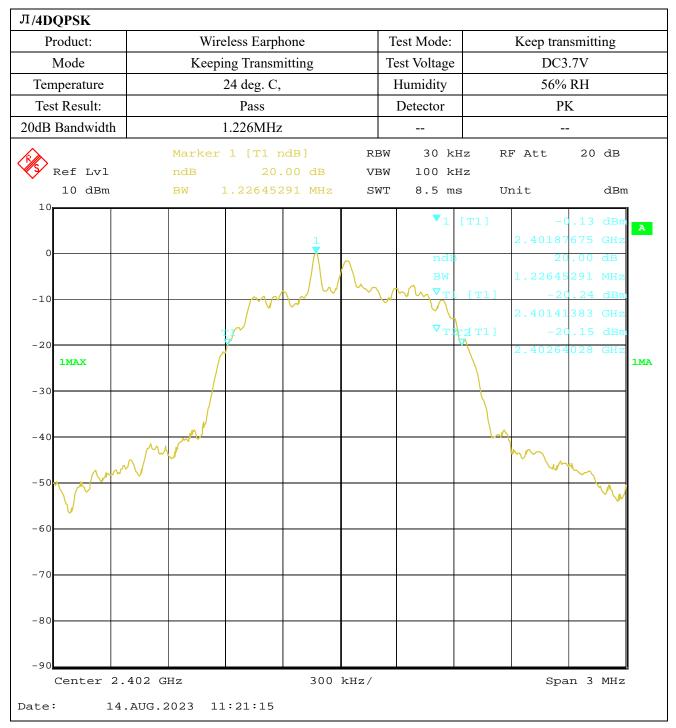




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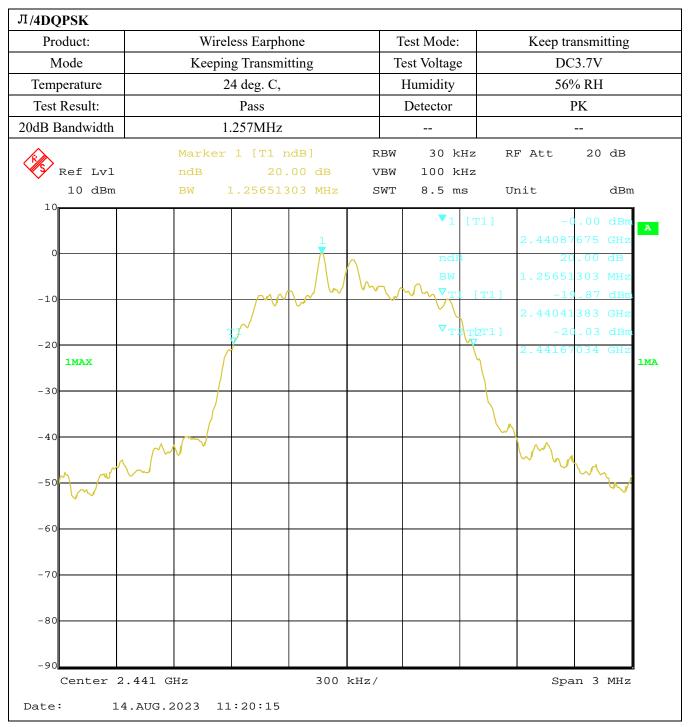




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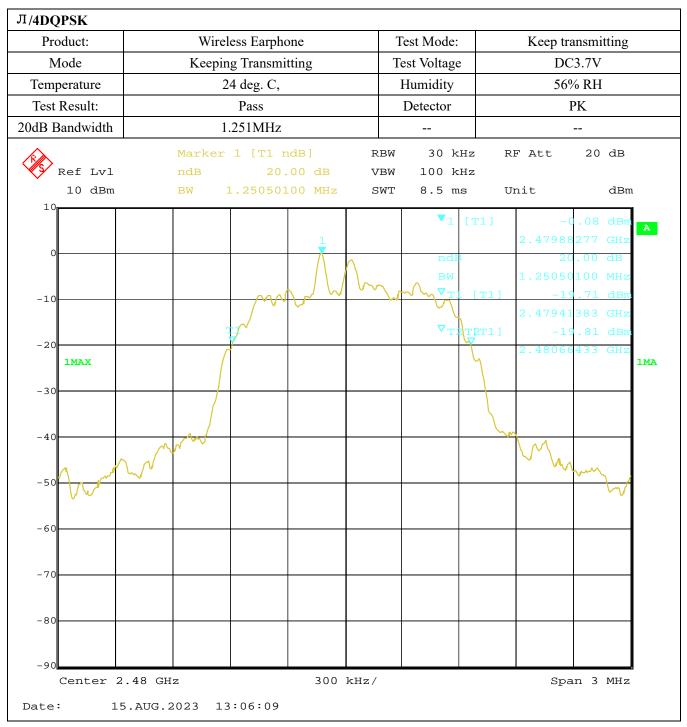




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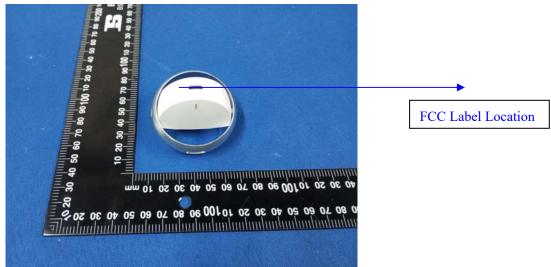
Page 53 of 73

# 10.0 FCC ID Label

### FCC ID: 2AZBO-N00026

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

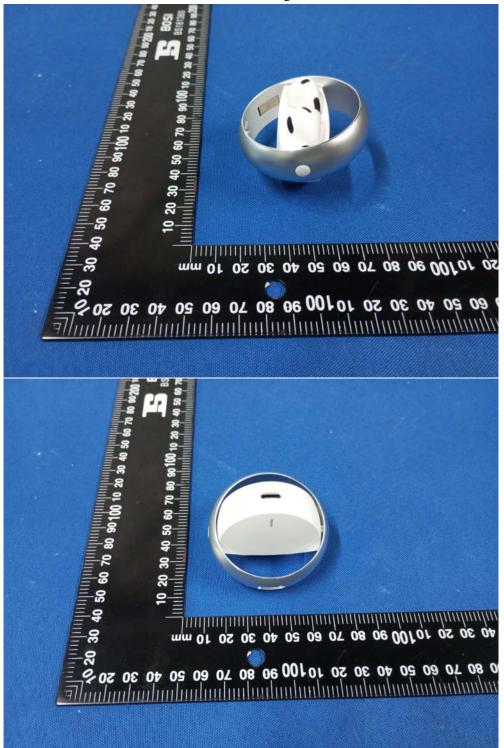


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Outside View - charger base

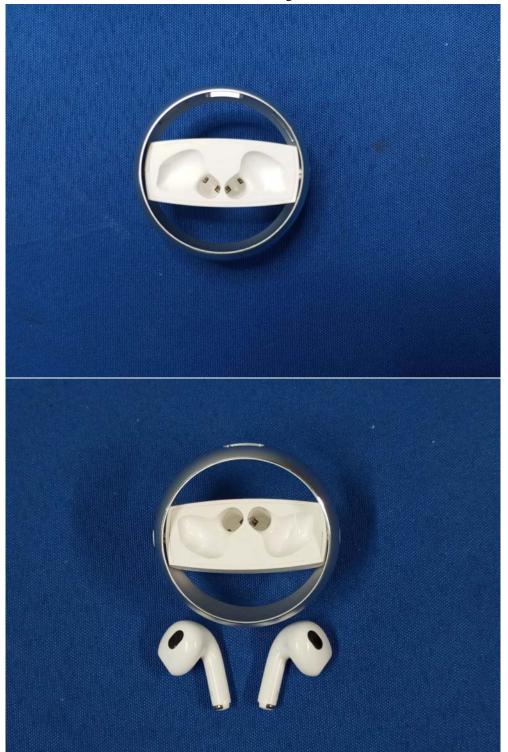


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Outside View - charger base



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Outside View - charger base

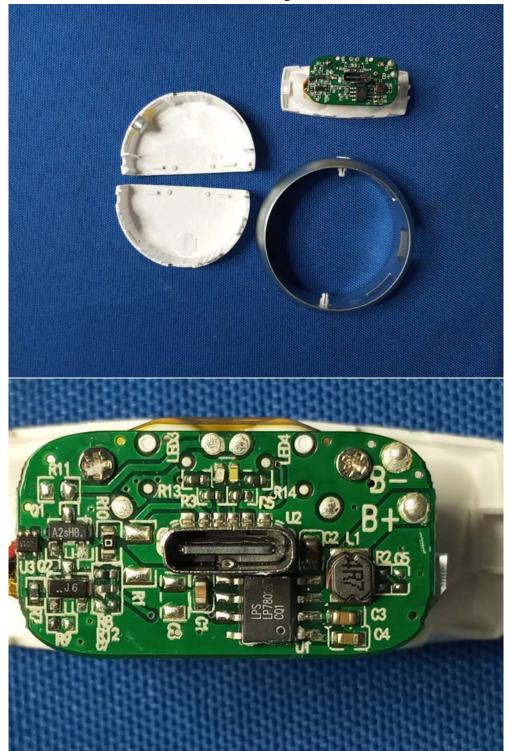


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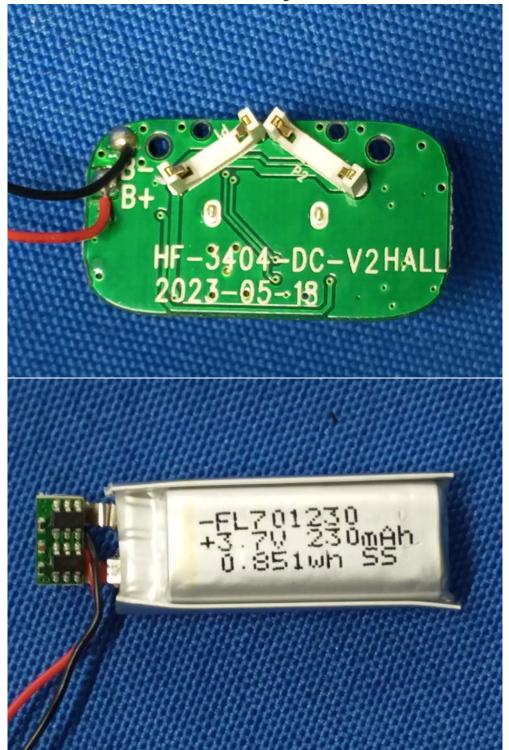
Inside View - charger base



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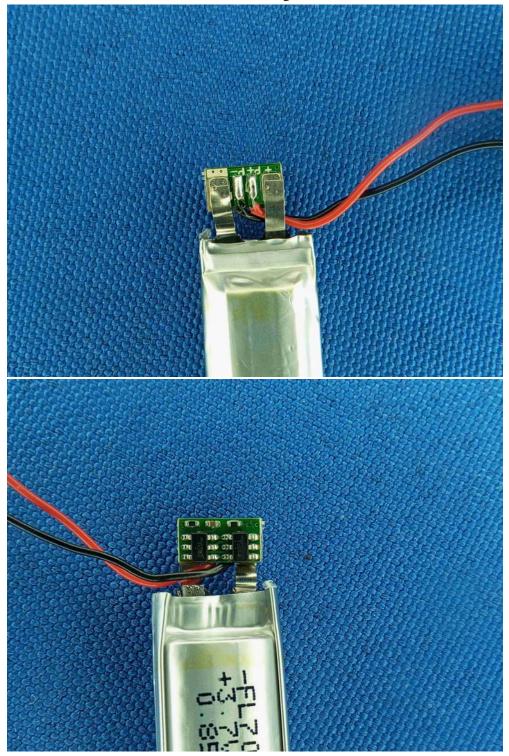
Inside View - charger base



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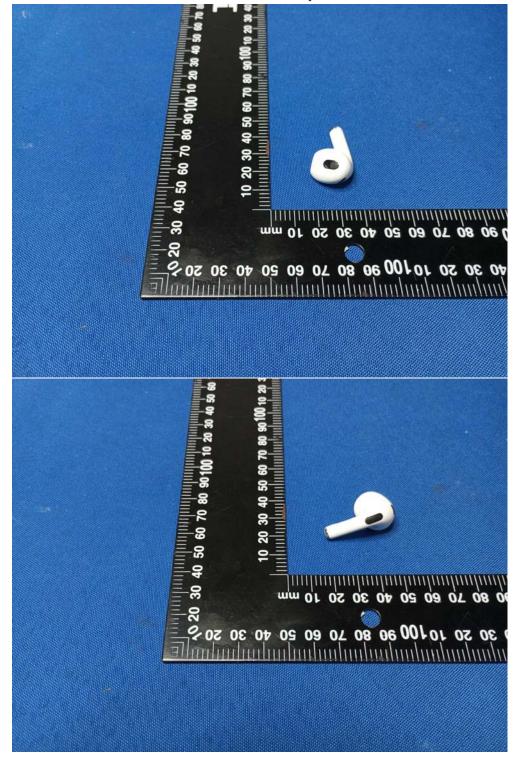
Inside View - charger base



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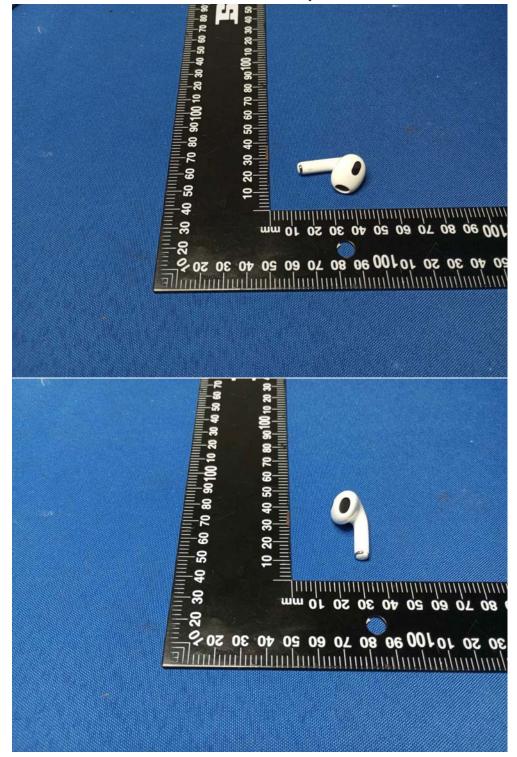
Outside View - Left earphone



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Outside View - Left earphone



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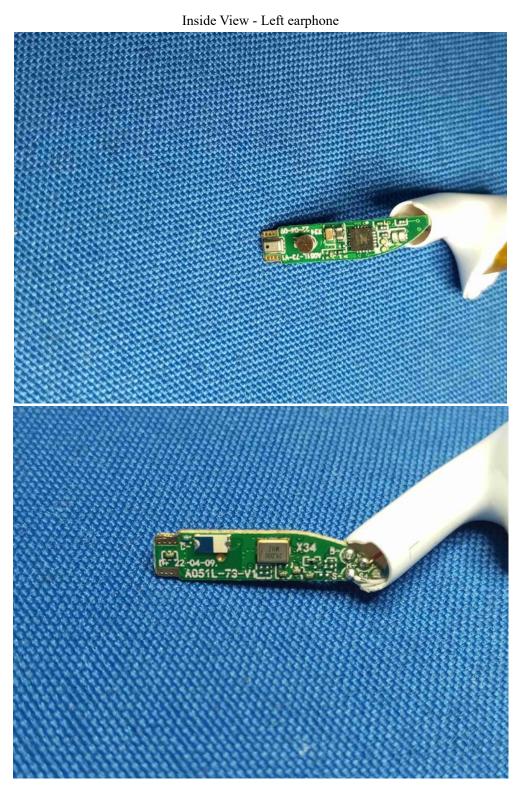
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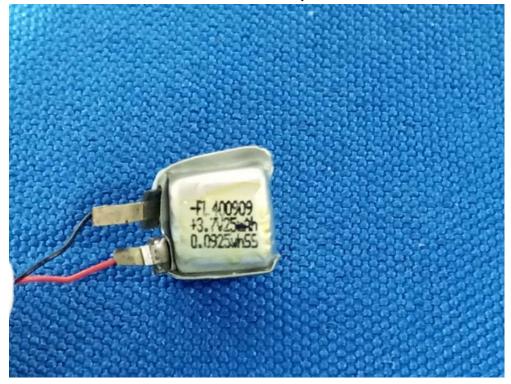




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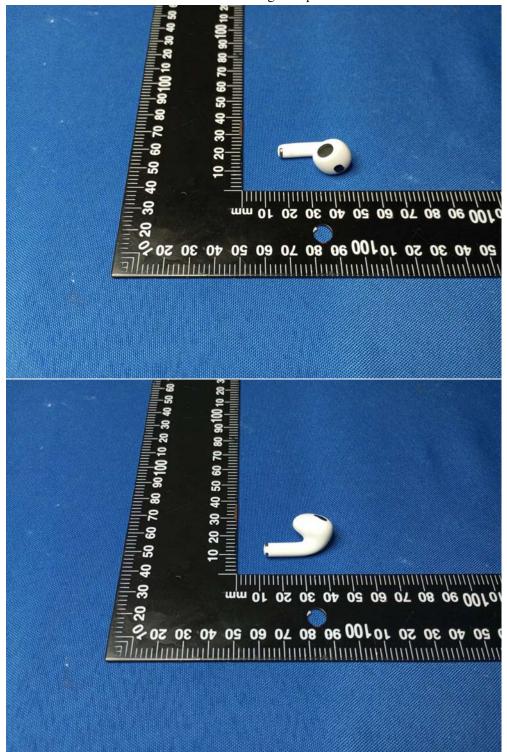
Inside View - Left earphone



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Outside View - Right earphone

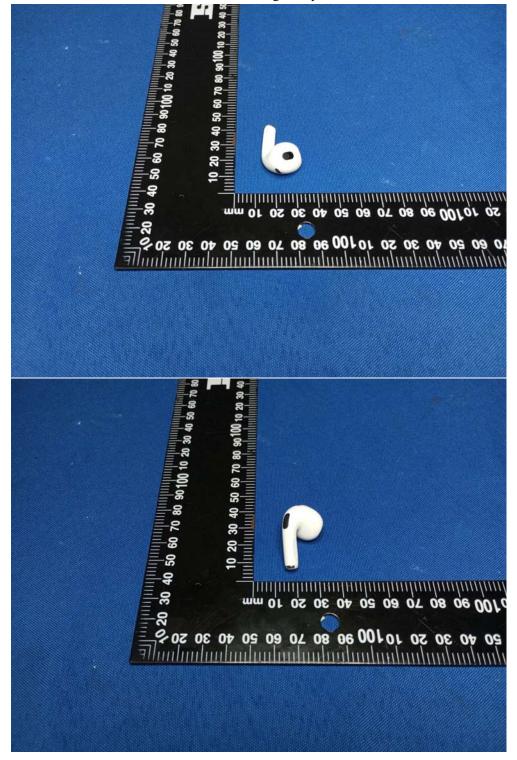


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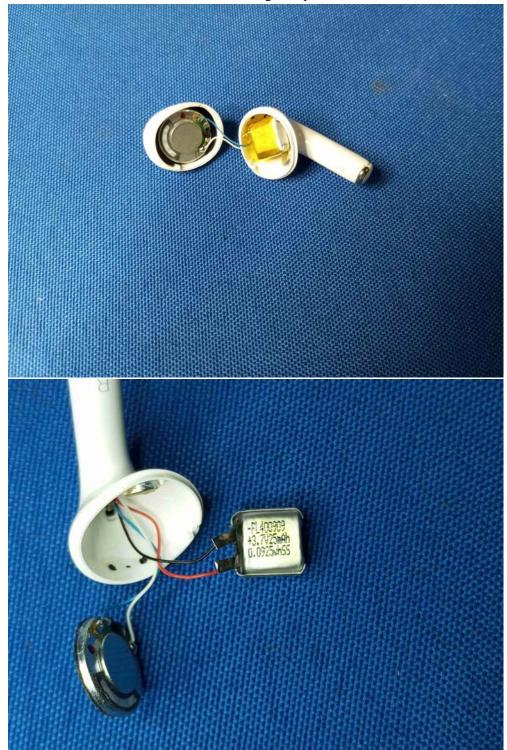
Outside View - Right earphone



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Inside View - Right earphone

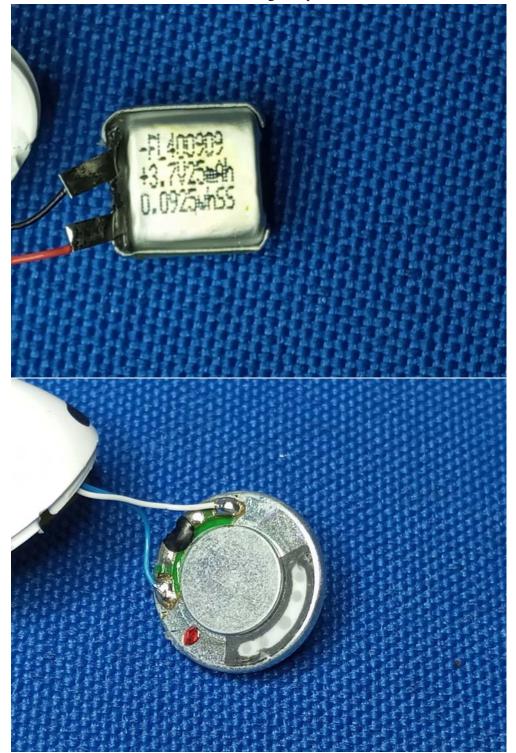


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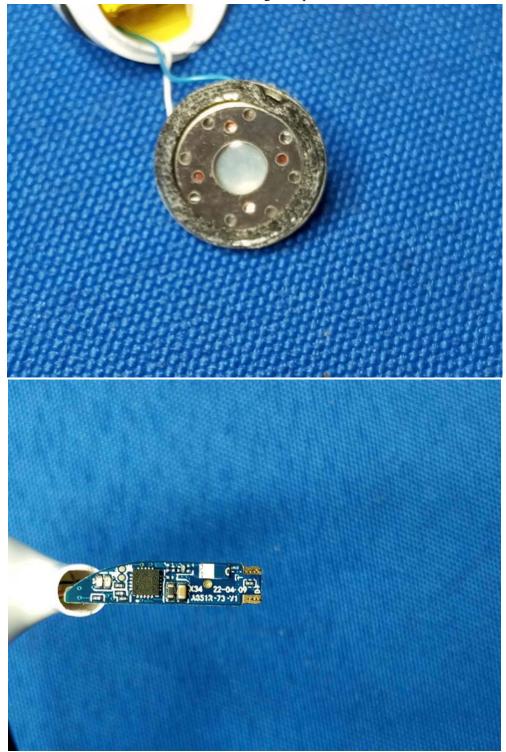
Inside View - Right earphone



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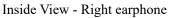
Inside View - Right earphone

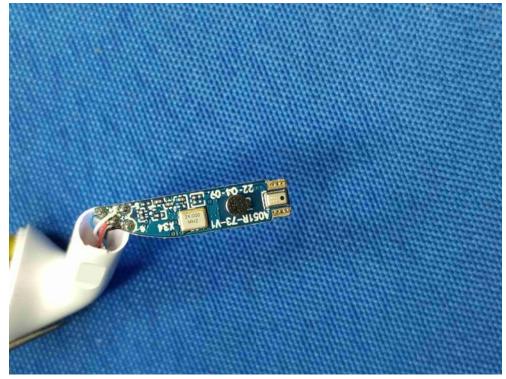


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--End of the report--

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