

Report No.:	TW2212279E
Applicant:	TECHNOFASHION INC.
Product:	Wireless Earphone
Model No.:	NTWS08
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	

Approved By

Terry long

Terry Tang

Manager

Dated:

January 10, 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
Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number: 744189For 3m Anethoic 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

1	
Product:	Wireless Earphone
Manufacturer:	TECHNOFASHION INC.
Address:	127, Kingsland Ave, Clifton, NJ, USA, 07014
Trademark:	N/A
Model Number:	NTWS08
Additional Model Name	N/A
Rating:	DC5V input or Built-in DC3.7V, 30mAh Li-ion battery for earphones and DC5V
	input or Built-in DC3.7V, 300mAh Li-ion battery for charger base.
Modulation Type:	GFSK, Л/4DQPSK
Operation Frequency:	2402-2480MHz
Channel Number:	79
Channel Separation:	1MHz
Hardware Version:	V1.1
Software Version:	V161
Serial No.:	NTWS08202208
Antenna Designation	Chip antenna with gain 1.24dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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- 1.5 Test Duration 2022-12-22 to 2023-01-10
- 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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

2.2 Automation Test Software

For Conducted Emission Test

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

For Radiated Emissions

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

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies	
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies	

3.2 Test Standards

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

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

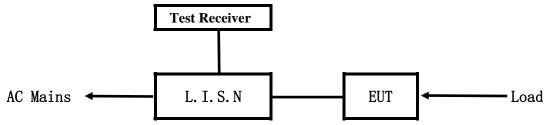
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

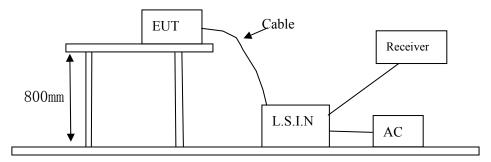


EUT: Equipment Under Test

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
11.	LOI

Device	Manufacturer	Model	FCC ID
Wireless Earphone	TECHNOFASHION INC.	NTWS08	2AZBO-N00021

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B. Internal Device

2.				
	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			
0.1	$5 \sim 0.50$	66.0~56.0*	56.0~46.0*			
0.5	$50~\sim~5.00$	56.0	46.0			
5.0	$00 \sim 30.00$	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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Temp	erature: 25°C	Humidity:	65%RH	Atmospheri	ic Pressure:	101 kPa		
EUT :	set Condition: (Charging + C	ommunica	tion by BT				
Resul	ts: Pass							
	e refer to followi	ng diagram fo	or individual	l				
) dBuV								
					F	CC Part15 Cl	E-Class C_QP	
						C Part15 CE	-Class C_AVe	
						\$	<u> </u>	
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MIN	hallan.	5			month	- And	1 mm	11 12
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).150			4)	IHz)				
	Frequency (MHz)	Reading (dBuV)	(⊮ Factor (dB)	Hz) Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
		-	Factor	Level			Detector	P/F P
No.	(MHz)	(dBuV)	Factor (dB)	Level (dBuV)	(dBuV)	(dB)	Delector	
No.	(MHz) 0.1773	(dBuV) 19.79	Factor (dB) 9.77	Level (dBuV) 29.56	(dBuV) 64.61	(dB) -35.05	QP	P
No.	(MHz) 0.1773 0.1773	(dBuV) 19.79 -0.61	Factor (dB) 9.77 9.77	Level (dBuV) 29.56 9.16	(dBuV) 64.61 54.61	(dB) -35.05 -45.45	QP AVG QP	P P
No.	(MHz) 0.1773 0.1773 0.2982	(dBuV) 19.79 -0.61 15.09	Factor (dB) 9.77 9.77 9.76	Level (dBuV) 29.56 9.16 24.85	(dBuV) 64.61 54.61 60.29	(dB) -35.05 -45.45 -35.44	QP AVG QP AVG	P P P
No. 1 2 3 4	(MHz) 0.1773 0.1773 0.2982 0.2982	(dBuV) 19.79 -0.61 15.09 -1.97	Factor (dB) 9.77 9.77 9.76 9.76	Level (dBuV) 29.56 9.16 24.85 7.79	(dBuV) 64.61 54.61 60.29 50.29	(dB) -35.05 -45.45 -35.44 -42.50	QP AVG QP AVG QP	P P P
No. 1 2 3 4 5	(MHz) 0.1773 0.1773 0.2982 0.2982 0.6920	(dBuV) 19.79 -0.61 15.09 -1.97 10.72	Factor (dB) 9.77 9.77 9.76 9.76 9.78	Level (dBuV) 29.56 9.16 24.85 7.79 20.50	(dBuV) 64.61 54.61 60.29 50.29 56.00	(dB) -35.05 -45.45 -35.44 -42.50 -35.50	QP AVG QP AVG QP	P P P P
No. 1 2 3 4 5 6	(MHz) 0.1773 0.1773 0.2982 0.2982 0.2982 0.6920 0.6920	(dBuV) 19.79 -0.61 15.09 -1.97 10.72 -0.97	Factor (dB) 9.77 9.77 9.76 9.76 9.78 9.78	Level (dBuV) 29.56 9.16 24.85 7.79 20.50 8.81	(dBuV) 64.61 54.61 60.29 50.29 56.00 46.00	(dB) -35.05 -45.45 -35.44 -42.50 -35.50 -37.19	QP AVG QP AVG QP AVG QP AVG	P P P P P
No. 1 2 3 4 5 6 7	(MHz) 0.1773 0.1773 0.2982 0.2982 0.6920 0.6920 5.6637	(dBuV) 19.79 -0.61 15.09 -1.97 10.72 -0.97 11.24	Factor (dB) 9.77 9.77 9.76 9.76 9.76 9.78 9.78 9.96	Level (dBuV) 29.56 9.16 24.85 7.79 20.50 8.81 21.20	(dBuV) 64.61 54.61 60.29 50.29 56.00 46.00 60.00	(dB) -35.05 -45.45 -35.44 -42.50 -35.50 -37.19 -38.80	QP AVG QP AVG QP AVG QP AVG	P P P P P P
No. 1 2 3 4 5 6 7 8	(MHz) 0.1773 0.1773 0.2982 0.2982 0.6920 0.6920 5.6637 5.6637	(dBuV) 19.79 -0.61 15.09 -1.97 10.72 -0.97 11.24 2.79	Factor (dB) 9.77 9.77 9.76 9.76 9.78 9.78 9.78 9.96 9.96	Level (dBuV) 29.56 9.16 24.85 7.79 20.50 8.81 21.20 12.75	(dBuV) 64.61 54.61 60.29 50.29 56.00 46.00 60.00 50.00	(dB) -35.05 -45.45 -35.44 -42.50 -35.50 -37.19 -38.80 -37.25	QP AVG QP AVG QP AVG QP AVG	P P P P P
No. 1 2 3 4 5 6 7 8 9	(MHz) 0.1773 0.1773 0.2982 0.2982 0.6920 0.6920 5.6637 5.6637 12.0401	(dBuV) 19.79 -0.61 15.09 -1.97 10.72 -0.97 11.24 2.79 28.65	Factor (dB) 9.77 9.77 9.76 9.76 9.78 9.78 9.78 9.96 9.96 10.25	Level (dBuV) 29.56 9.16 24.85 7.79 20.50 8.81 21.20 12.75 38.90	(dBuV) 64.61 54.61 60.29 50.29 56.00 46.00 60.00 50.00 60.00	(dB) -35.05 -45.45 -35.44 -42.50 -35.50 -37.19 -38.80 -37.25 -21.10	QP AVG QP AVG QP AVG QP AVG QP	P P P P P P P

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adopt any other remedies which may be appropriate.



Tempe	erature: 25°C	Humidity:	65%RH	Atmospheri	c Pressure:	101 kPa		
EUT :	set Condition: (Charging + C	ommunica	tion by BT				
Resul	ts: Pass							
	e refer to followi	ng diagram fo	r individual					
dBuV								
						CC Part15 Cl	E-Class C_QP	I
						C Part15 CE-	Class C_AVe	
						&		
1								
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.150			4)	Hz)				
.150 No.	Frequency (MHz)	Reading (dBuV)	(► Factor (dB)	Hz) Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
			Factor	Level		_	Detector	
No.	(MHz)	(dBuV)	Factor (dB)	Level (dBuV)	(dBuV)	(dB)		P/F
No. 1	(MHz) 0.1655	(dBuV) 21.59	Factor (dB) 9.77	Level (dBuV) 31.36	(dBuV) 65.18	(dB) -33.82	QP	P/F P
No.	(MHz) 0.1655 0.1655	(dBuV) 21.59 2.03	Factor (dB) 9.77 9.77	Level (dBuV) 31.36 11.80	(dBuV) 65.18 55.18	(dB) -33.82 -43.38	QP AVG	P/F P P
No.	(MHz) 0.1655 0.1655 0.2163	(dBuV) 21.59 2.03 18.25	Factor (dB) 9.77 9.77 9.75	Level (dBuV) 31.36 11.80 28.00	(dBuV) 65.18 55.18 62.96	(dB) -33.82 -43.38 -34.96	QP AVG QP AVG	P/F P P
No. 1 2 3 4	(MHz) 0.1655 0.1655 0.2163 0.2163	(dBuV) 21.59 2.03 18.25 0.12	Factor (dB) 9.77 9.77 9.75 9.75	Level (dBuV) 31.36 11.80 28.00 9.87	(dBuV) 65.18 55.18 62.96 52.96	(dB) -33.82 -43.38 -34.96 -43.09	QP AVG QP AVG	P/F P P P
No. 1 2 3 4 5	(MHz) 0.1655 0.1655 0.2163 0.2163 0.6882	(dBuV) 21.59 2.03 18.25 0.12 9.65	Factor (dB) 9.77 9.77 9.75 9.75 9.75 9.78	Level (dBuV) 31.36 11.80 28.00 9.87 19.43	(dBuV) 65.18 55.18 62.96 52.96 56.00	(dB) -33.82 -43.38 -34.96 -43.09 -36.57	QP AVG QP AVG QP	P/F P P P
No. 1 2 3 4 5 6	(MHz) 0.1655 0.1655 0.2163 0.2163 0.6882 0.6882	(dBuV) 21.59 2.03 18.25 0.12 9.65 2.15	Factor (dB) 9.77 9.77 9.75 9.75 9.78 9.78	Level (dBuV) 31.36 11.80 28.00 9.87 19.43 11.93	(dBuV) 65.18 55.18 62.96 52.96 56.00 46.00	(dB) -33.82 -43.38 -34.96 -43.09 -36.57 -34.07	QP AVG QP AVG QP AVG	P/F P P P P
No. 1 2 3 4 5 6 7	(MHz) 0.1655 0.2163 0.2163 0.6882 0.6882 3.8190	(dBuV) 21.59 2.03 18.25 0.12 9.65 2.15 3.08	Factor (dB) 9.77 9.77 9.75 9.75 9.75 9.78 9.78 9.88	Level (dBuV) 31.36 11.80 28.00 9.87 19.43 11.93 12.96	(dBuV) 65.18 55.18 62.96 52.96 56.00 46.00 56.00	(dB) -33.82 -43.38 -34.96 -43.09 -36.57 -34.07 -34.07 -43.04	QP AVG QP AVG QP AVG QP	P/F P P P P P
No. 1 2 3 4 5 6 7 8	(MHz) 0.1655 0.2163 0.2163 0.6882 0.6882 3.8190 3.8190	(dBuV) 21.59 2.03 18.25 0.12 9.65 2.15 3.08 -2.35	Factor (dB) 9.77 9.77 9.75 9.75 9.78 9.78 9.78 9.88 9.88	Level (dBuV) 31.36 11.80 28.00 9.87 19.43 11.93 12.96 7.53	(dBuV) 65.18 55.18 62.96 52.96 56.00 46.00 46.00	(dB) -33.82 -43.38 -34.96 -43.09 -36.57 -34.07 -34.07 -43.04 -38.47	QP AVG QP AVG QP AVG QP AVG	P/F P P P P P P
No. 1 2 3 4 5 6 7 8 9	(MHz) 0.1655 0.2163 0.2163 0.6882 0.6882 3.8190 3.8190 11.9778	(dBuV) 21.59 2.03 18.25 0.12 9.65 2.15 3.08 -2.35 28.45	Factor (dB) 9.77 9.77 9.75 9.75 9.78 9.78 9.78 9.88 9.88 10.25	Level (dBuV) 31.36 11.80 28.00 9.87 19.43 11.93 12.96 7.53 38.70	(dBuV) 65.18 55.18 62.96 52.96 56.00 46.00 56.00 46.00 60.00	(dB) -33.82 -43.38 -34.96 -43.09 -36.57 -34.07 -34.07 -43.04 -38.47 -21.30	QP AVG QP AVG QP AVG QP AVG QP AVG	P P P P P P

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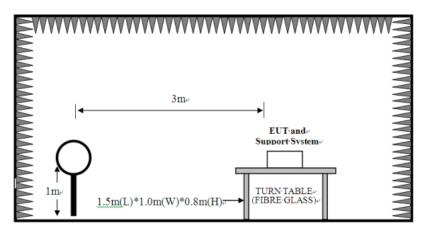


6 Radiated Emission Test

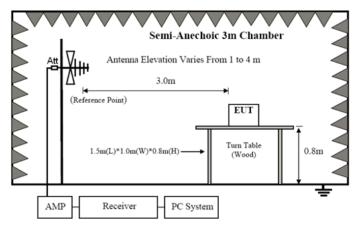
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is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

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz

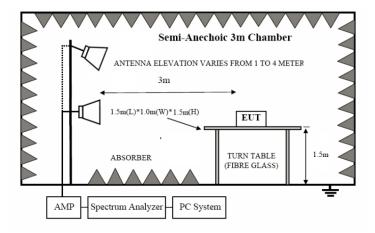


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For radiated emissions above 1GHz



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

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

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

Fundamental Frequency	Field Stre	Field Strength of Fundamental (3m) Field Strength				nics (3m)
(MHz)	mV/m dBuV/m uV/m dBuV/m					V/m
2400-2483.5	50	94 (Average)	114 (Peak)			

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

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

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

Note: 1. RF Voltage $(dBuV) = 20 \log RF$ 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 handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

7. Battery fully charged was used during the test.

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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal

1

2

2402

4802.799

91.88

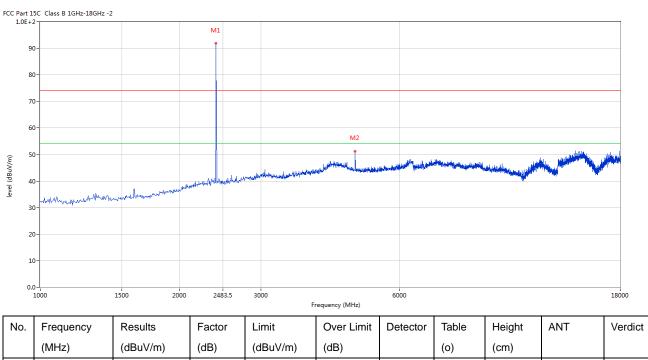
51.23

-3.57

3.12

114.0

74.0



-22.12

-22.77

Peak

Peak

87.00

192.00

100

100

Horizontal

Horizontal

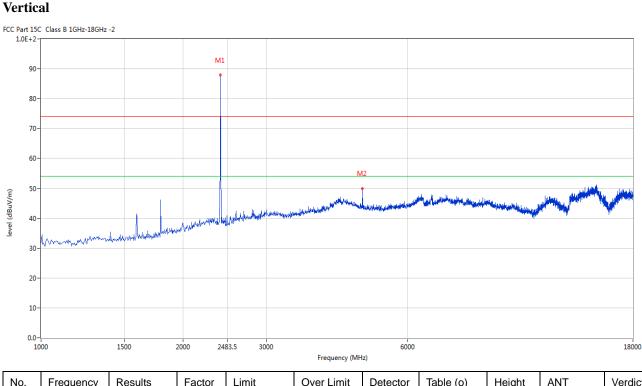
Pass

Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	87.99	-3.57	114.0	-26.01	Peak	280.00	100	Vertical	Pass
2	4802.799	49.97	3.12	74.0	-24.03	Peak	280.00	100	Vertical	Pass

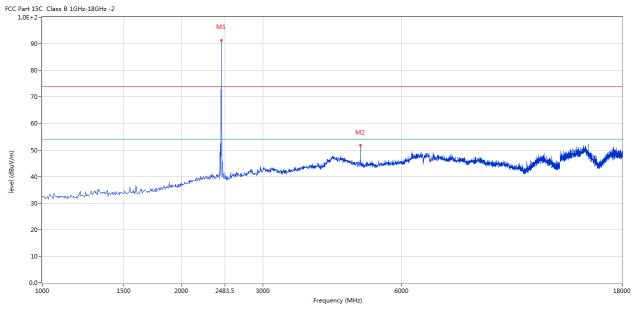
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

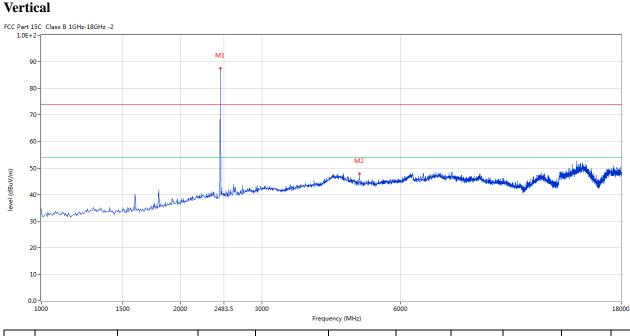


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.41	-3.57	114.0	-22.59	Peak	208.00	100	Horizontal	Pass
2	4883.529	51.70	3.20	74.0	-22.30	Peak	218.00	100	Horizontal	Pass

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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	87.53	-3.57	114.0	-26.47	Peak	293.00	100	Vertical	Pass
2	4879.280	47.92	3.20	74.0	-26.08	Peak	288.00	100	Vertical	Pass

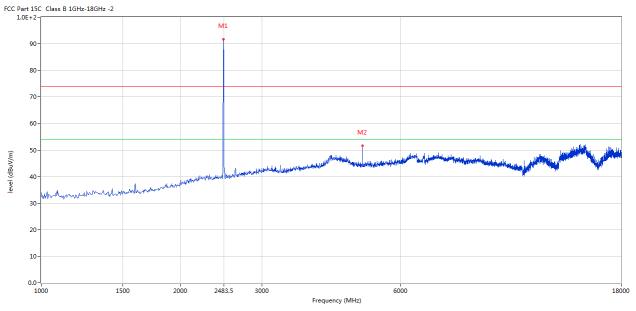
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

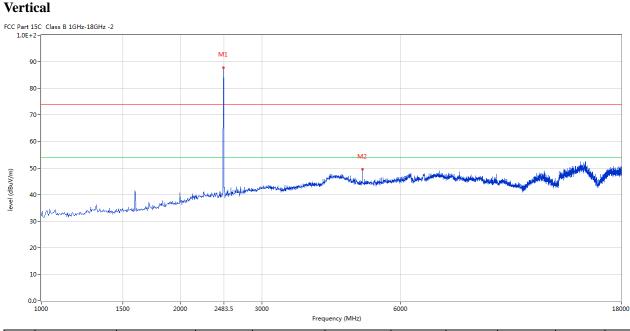


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	91.64	-3.57	114.0	-22.36	Peak	78.00	100	Horizontal	Pass
2	4960.010	51.62	3.36	74.0	-22.38	Peak	84.00	100	Horizontal	Pass

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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	87.73	-3.57	114.0	-26.27	Peak	289.00	100	Vertical	Pass

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

(2) Margin=Emission-Limits

(3) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(4) For test purpose, keep EUT continuous transmitting

(5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for

more than 20dB. No necessary to take down.

(6) the measured PK value less than the AV limit.

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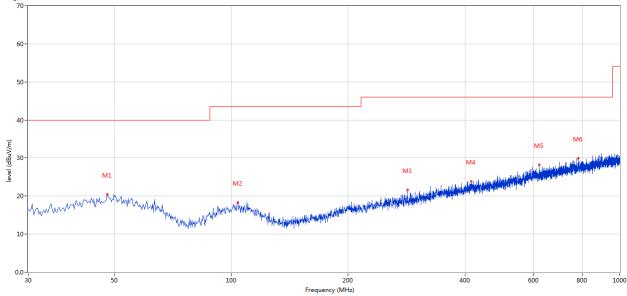
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	47.941	20.49	-11.30	40.0	-19.51	Peak	29.00	100	Horizontal	Pass
2	103.944	18.34	-13.33	43.5	-25.16	Peak	10.00	100	Horizontal	Pass
3	284.076	21.63	-11.35	46.0	-24.37	Peak	36.00	100	Horizontal	Pass
4	414.266	23.85	-8.24	46.0	-22.15	Peak	55.00	100	Horizontal	Pass
5	619.855	28.20	-4.85	46.0	-17.80	Peak	80.00	100	Horizontal	Pass
6	782.047	29.97	-3.14	46.0	-16.03	Peak	157.00	100	Horizontal	Pass

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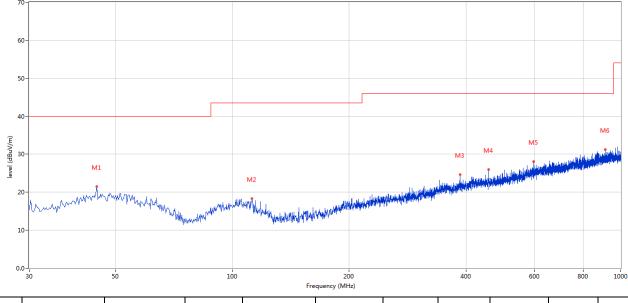
Radiated Emission In Vertical (30MHz----1000MHz)

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	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	44.789	21.51	-11.42	40.0	-18.49	Peak	347.00	100	Vertical	Pass
2	112.429	18.30	-13.91	43.5	-25.20	Peak	258.00	100	Vertical	Pass
3	385.416	24.68	-9.16	46.0	-21.32	Peak	239.00	100	Vertical	Pass
4	457.178	26.02	-7.84	46.0	-19.98	Peak	213.00	100	Vertical	Pass
5	596.823	28.07	-5.11	46.0	-17.93	Peak	360.00	100	Vertical	Pass
6	912.479	31.22	-1.81	46.0	-14.78	Peak	360.00	100	Vertical	Pass

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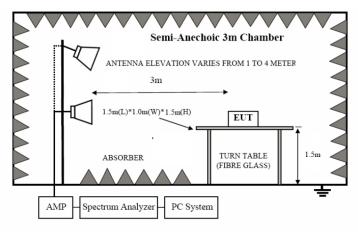


7. Band Edge

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

	Product:		Wireless Earphone			Polarity			Horizontal		
Mode			Keeping Transmitting			Test Voltage			DC3.7V		
Те	emperature		24 deg. C,				lity	56% RH			
Test Result:			Pass								
CC Part 1.0E	15C Class B 1GHz-18GH +2-r	lz -2									
									M1		
	80-										
	70-										
	60 -								M2		
Ê	50-						N	M4 M5	•	1	
m/vna								🔹 a dia an		N July	
(Angp) I	40-	alara mating basis in the second second	udala distanta tikka tanki kalek		the state of the state of the second	a transfer to the state of the	M3				
	40- 40- 30-	den men son der sich der gehörter er son	utologianismisekki usikki tali	Helender Later og det beskelde stører he	edintaritensitensisyeityitensiste	krigerellal, finskinskard					
		den, men son bestelle die geheren sons	adolaatiistoonaakkelaanakkelek	he in the second second a second s	edista (englandera) de angla	eri gentlet fin etnet get					
	30- 20- 10-	daguna karihik daga katan karing	utok, dastra at bis samt bif bit	if in the provided and the second	ederile jewije wie zwiedze wych	ert govellet. Hin estad og til	- <mark>(M3</mark> -) - (M3-) - (M				
	20-		ufelydysiaesialafeld 	14 in to 1994 to	Frequency (MHz)	i (geoli (dinatati geo				2	
level	30- 20- 10-	Results	Factor	Limit		Detector	Table	Height	ANT		
	30- 20- 10- 2350			1	Frequency (MHz)			Height (cm)	ANT		
	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit		Table	-	ANT		
No.	30- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdict	
No.	30- 20- 10- 2350 Frequency (MHz) 2402.172	Results (dBuV/m) 91.86	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 17.86	Detector Peak	Table (o) 90.00	(cm) 100	Horizontal	Verdict N/A	
No.	30- 20- 10- 2350 Frequency (MHz) 2402.172 2400.000	Results (dBuV/m) 91.86 65.79	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz) Over Limit (dB) 17.86 -8.21	Detector Peak Peak	Table (o) 90.00 90.00	(cm) 100 100	Horizontal Horizontal	Verdict N/A Pass	
No.	30- 20- 10- 2350 Frequency (MHz) 2402.172 2400.000 2400.000	Results (dBuV/m) 91.86 65.79 51.68	Factor (dB) -3.57 -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHz) Over Limit (dB) 17.86 -8.21 -2.32	Detector Peak Peak AV	Table (o) 90.00 90.00 90.00	(cm) 100 100 100	Horizontal Horizontal Horizontal	Pass Pass	

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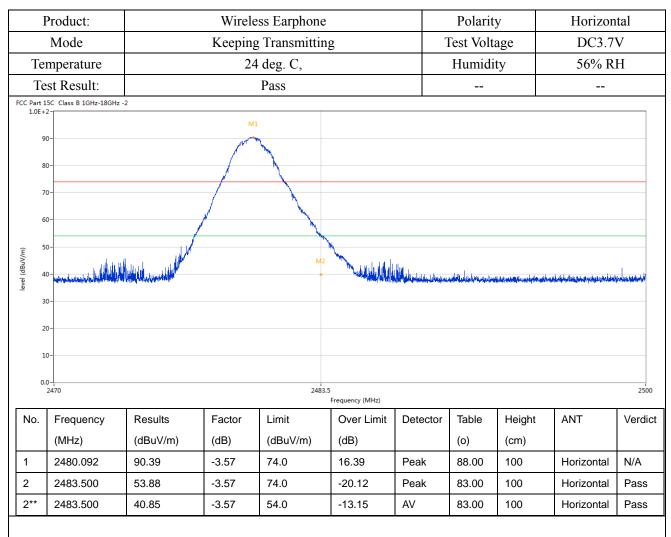


Product:		Wireless Earphone				Detector		Vertical			
	Mode	Keeping Transmitting				Test Voltage		DC3.7V			
Te	emperature		24 deg. C,				ty	56% RH			
Test Result:		Pass									
CC Part 1.0E+	15C Class B 1GHz-18GHz +2-	: -2									
									M1		
2	90 -								٦.		
8	80-								\neg		
5	70-										
(50-							/	h		
						M4	M5	/M2	\rightarrow		
(m/)	50-					V1 3	sut the collect dealers	udd urol 📩			
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:	20-	NI D LANG DATA MAN DATA MANA DA	(1444) 			and characterized as direction of the second				2411	
:	30 - 20 - 10 - 2350				Frequency (MHz)						
:	20-	Results	Factor			Detector	Table	Height	ANT	2414 Verdie	
: : 0	30 - 20 - 10 - 2350				Frequency (MHz)		Table (o)	Height (cm)	ANT		
: : 0	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)			-	ANT Vertical		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(0)	(cm)		Verdi	
3 2 2 0 No.	30- 10- 2350 Frequency (MHz) 2402.007	Results (dBuV/m) 87.90	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 13.90	Detector Peak	(o) 282.00	(cm) 100	Vertical	Verdi	
0 No.	a0- 20- 10- 2350 Frequency (MHz) 2402.007 2400.000	Results (dBuV/m) 87.90 62.21	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz) Over Limit (dB) 13.90 -11.79	Detector Peak Peak	(0) 282.00 288.00	(cm) 100 100	Vertical Vertical	Verdie N/A Pass	
No.	a0- 20- 10- 2350 Frequency (MHz) 2402.007 2400.000 2400.000	Results (dBuV/m) 87.90 62.21 48.13	Factor (dB) -3.57 -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHz) Over Limit (dB) 13.90 -11.79 -5.87	Detector Peak Peak AV	 (o) 282.00 288.00 288.00 	(cm) 100 100 100	Vertical Vertical Vertical	Verdi N/A Pass Pass	

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]	Product:		Wireless Earphone					or	Vertic	al
	Mode		ng Transmitti	ng		Test Volt	age	DC3.7	'V	
Te	emperature		24 deg. C,			Humidi	ty	56% F	Н	
Τe	est Result:	Pass								
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2				1				
9	30		MI							
_	50-		/	M2						
(iii 5 1000) 4 3		hild altern town with the	/	M2		i <mark>den stavil jägeneerid</mark> ees	da in Held Inc. 17, was	dar farfan sykked i sek	låsionensebrishisedelje	keele ku
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(W/Ango) WANGO	50 - 10	Results	Factor	2483.5		Detector	Table	Height	ANT	2500
(W/Ango) WANGO	50 - 10 - Lentil atok universited of the 30 - 20 - 10 - 2470		Factor (dB)	2483.5 Fre	equency (MHz)					2500
(m 5 (m//mpp) 4 3 2 1	50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 2470 Frequency	Results		2483.5 Fre Limit	equency (MHz)		Table	Height		

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 1.24dBi Max. It fulfills the requirement of this section. Test Result: Pass

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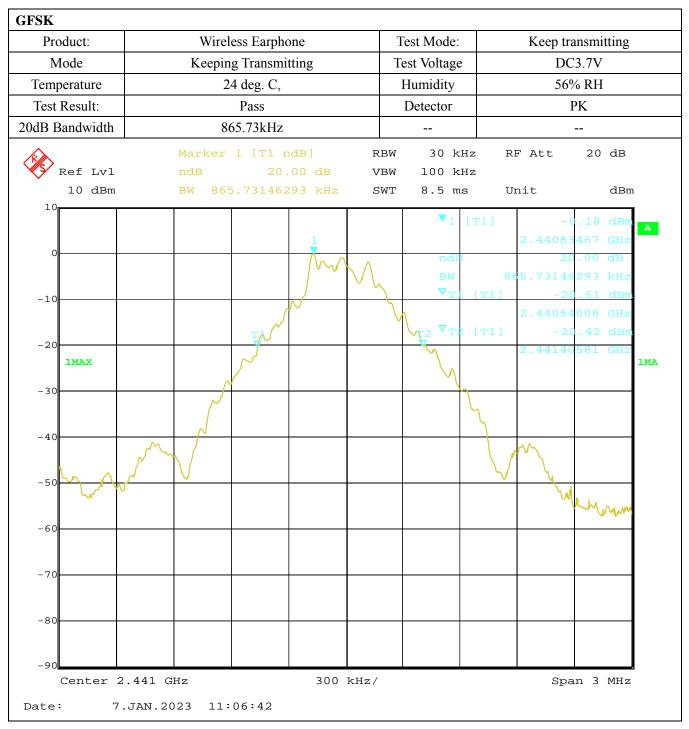


FSK											
Product: Wireless Earphone					Test Mode:			Keep transmitting			
Mode	Keepi	ing Transm	nitting		Test Voltage		DC3.7V				
Temperature	24 deg. C,				Humidity			56% RH			
Test Result:		Pass				Detector		РК			
20dB Bandwidth		865.73kHz									
Ref Lvl	ndB		.00 dB		BW BW	30 k 100 k	Hz	F Att	20 dB		
10 dBm	BW 86	5.731462	293 kHz	SI	ΤW	8.5 m	s U	nit	dBn	n	
						▼1	[T1]	- (0.77 dBm	2	
0			1					2.40183	3467 GHz		
0			/m	Л		ndB		20	0.00 dB		
				\lor	、	BW ▼ _T 1	80 . [T1]	5.73140 -2 ⁻			
-10			N		7				4008 GHz		
		T1			V	$\nabla_2 \nabla_T 2$	2 [T1]		0.98 dBm		
-20						<u> </u>		2.40240)581 GHz	11	
- 30						\	\mathcal{V}			-	
-50	\sim							M		-	
\bigvee w									man		
- 6 0											
-70											
-80											
-90 Center 2.402	2 GHz		300	kHz/				Spa	an 3 MHz		

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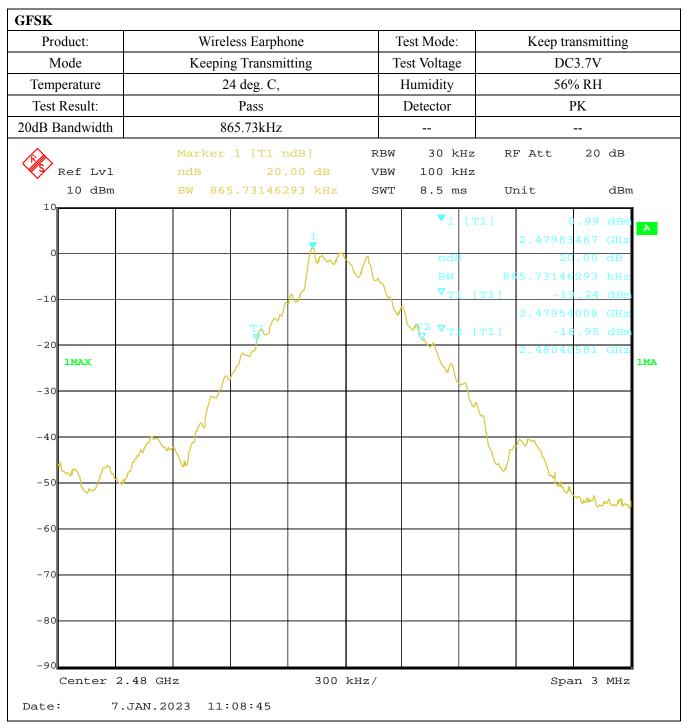




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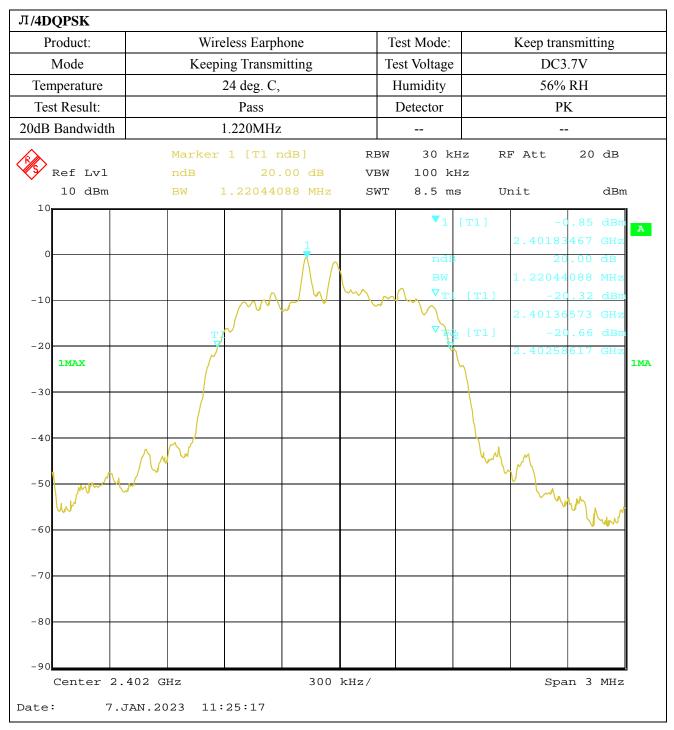




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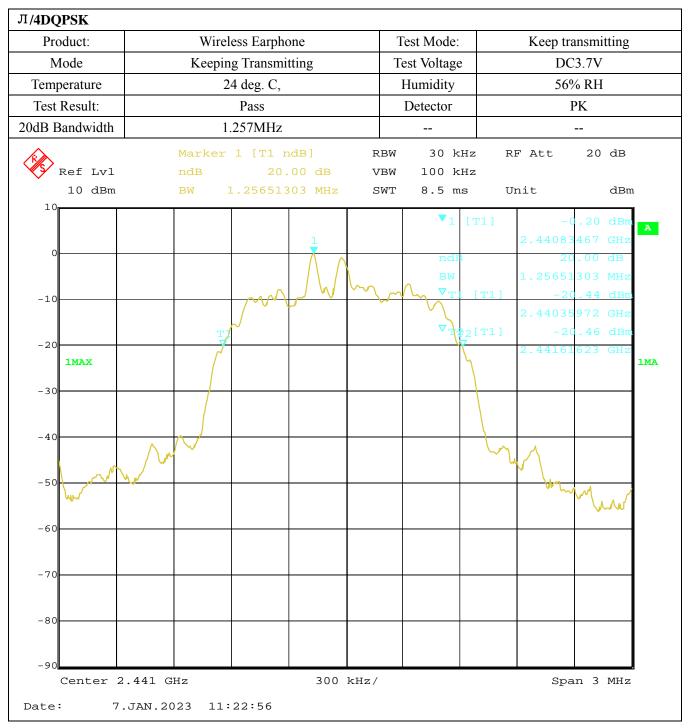




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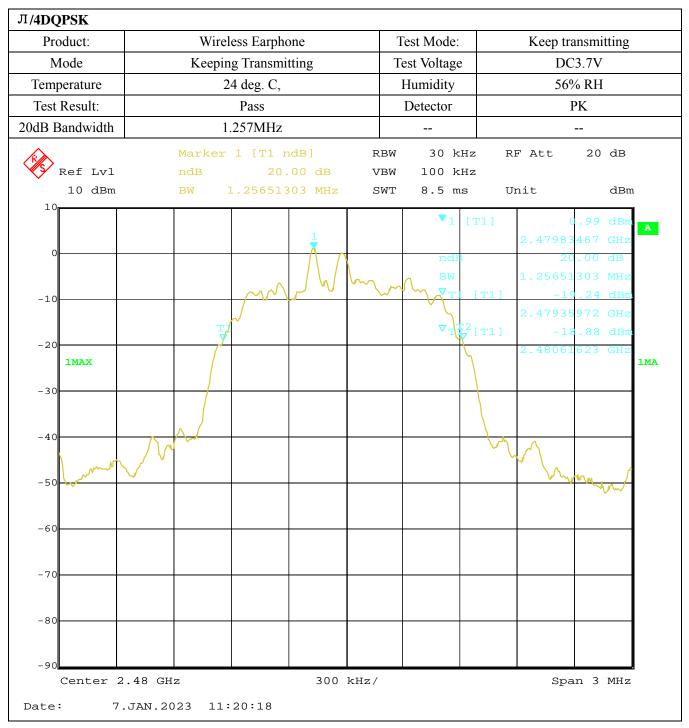




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10.0 FCC ID Label

FCC ID: 2AZBO-N00021

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.

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11.0 Photo of testing

Conducted test View 11.1



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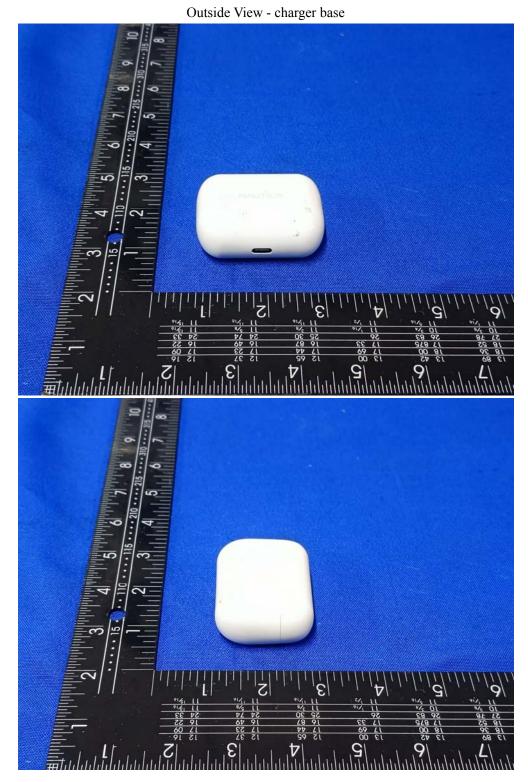
Radiated emission test view



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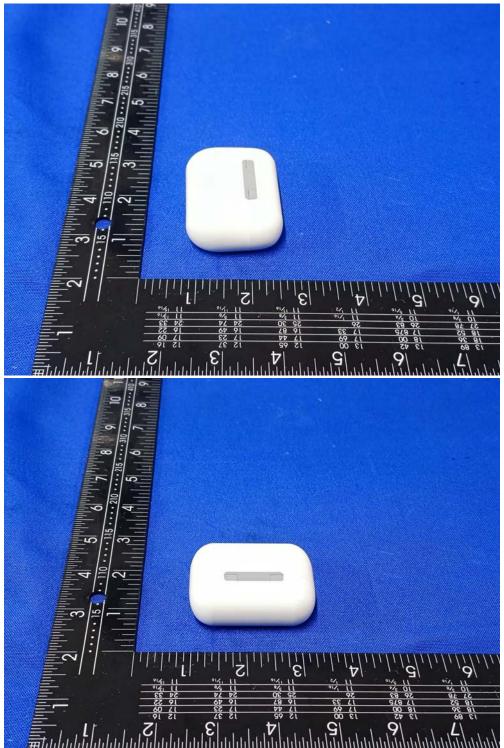
11.2 Photographs - EUT



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Outside View - charger base



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Page 40 of 53

Outside View - charger base



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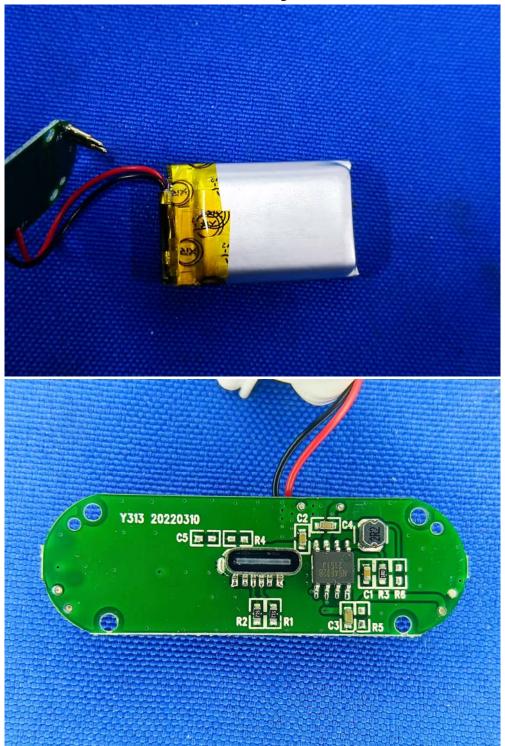
Inside View - charger base



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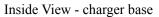
Inside View - charger base

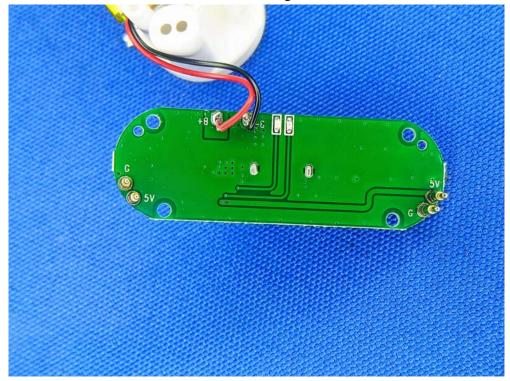


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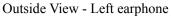


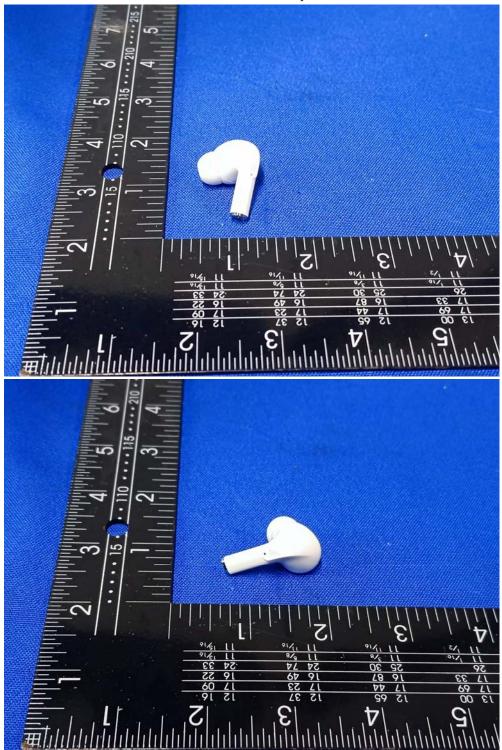




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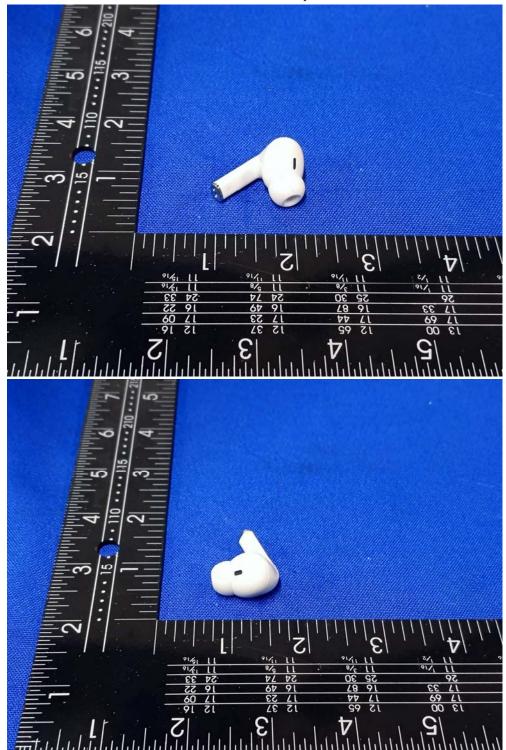




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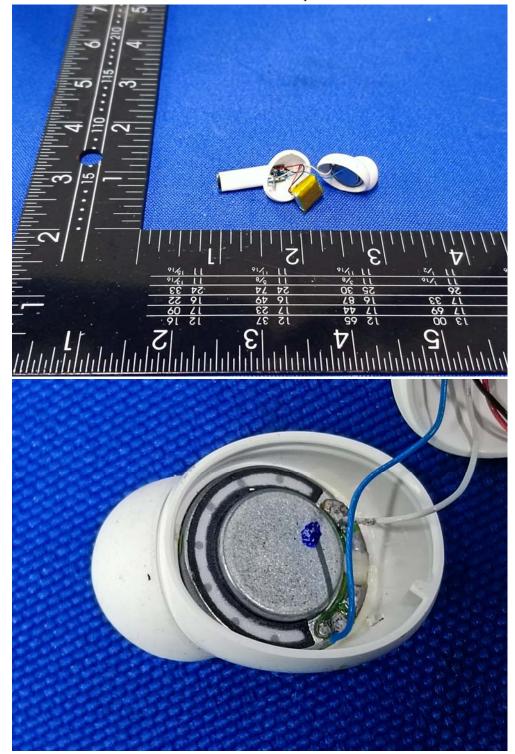
Outside View - Left earphone



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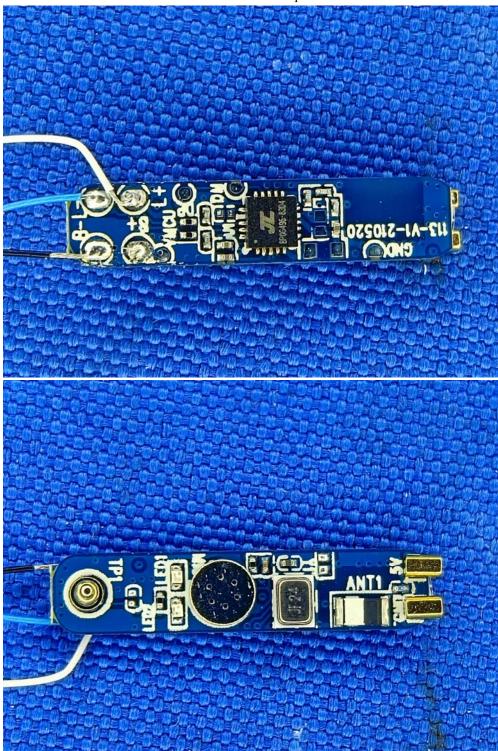
Inside View - Left earphone



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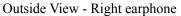
Inside View - Left earphone

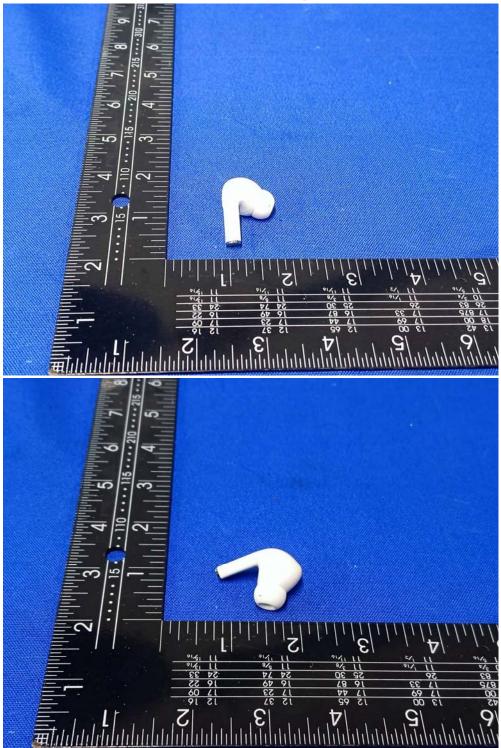


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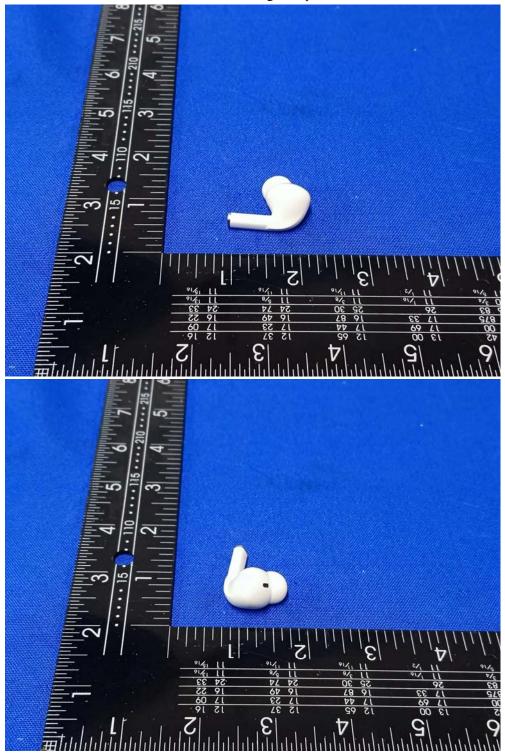




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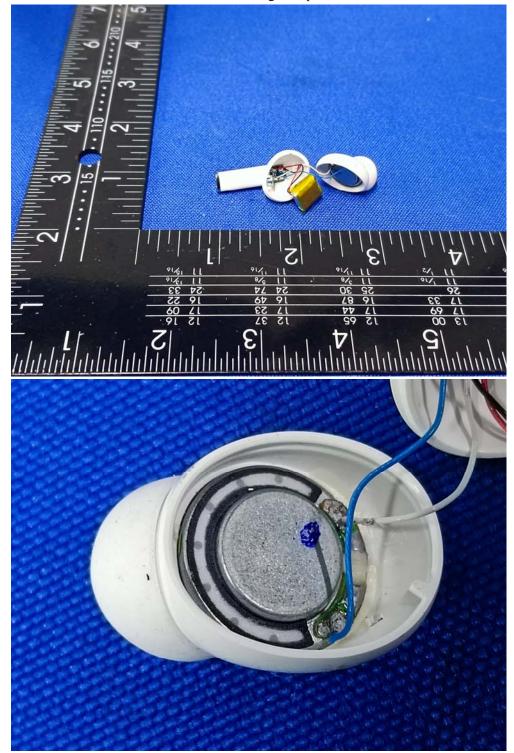
Outside View - Right earphone



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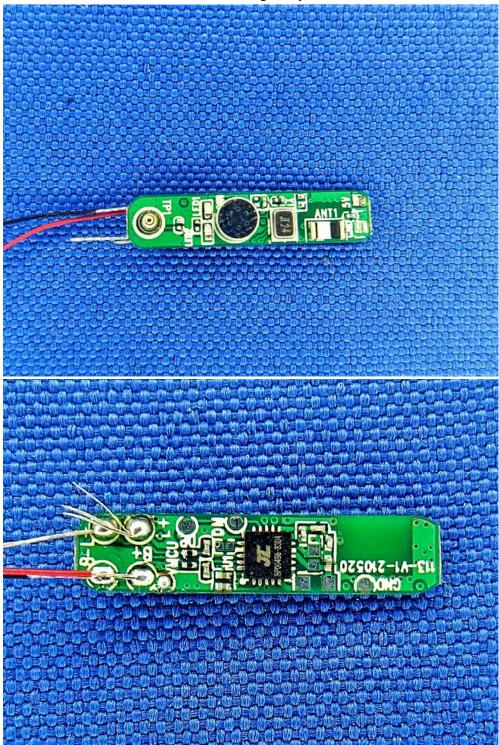
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--End of the report--

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