

Report No.: TW2409245E

Applicant: Distribution Axessorize Inc

Product: TWS earphones

Model No.: L08

Trademark: AT&T

Test Standards: FCC Part 15.249

It is herewith confirmed and found to comply with the Test result:

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

15.249 regulations

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: October 15, 2024

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

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#### **Special Statement:**

#### 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

CAB identifier: CN0033

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## **Test Report Conclusion**

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

11.0

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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: Distribution Axessorize Inc

Address: 3800 St-Patrick, Suite 315 Montreal QC H4E 1A4 Canada

#### 1.3 Description of EUT

Product: TWS earphones

Manufacturer: Glory Star Technology Industrial Co., Ltd.

Address: Room2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Trademark: AT&T

Model Number: L08

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.

Serial No.: 96-240925-1

Hardware Version: V5 Software Version: V5

Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, 月/4DQPSK, 8DPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation Chip antenna with gain 1.7dBi maximum (Get from the antenna specification)

#### 1.4 Submitted Sample: 2 Samples

#### 1.5 Test Duration

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#### 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

Andy -xing

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	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
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	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic		1	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

#### 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 specification	has been tested according to the following spe	cifications:
--	--	--------------

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
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

#### 3.2 Test Standards

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

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

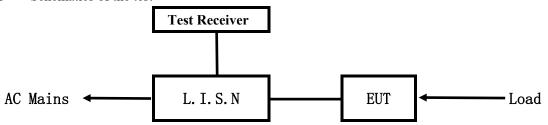
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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

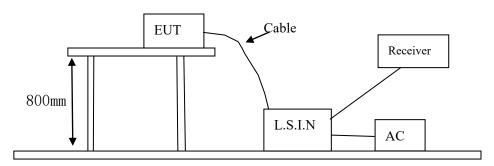


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

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

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



#### 5.3 Configuration of the EUT

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

79 channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
TWS earphones	Glory Star Technology Industrial Co., Ltd.	L08	2BK3OATTL08

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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#### 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			
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*			
$0.50 \sim 5.00$	56.0	46.0			
5.00 ~ 30.00	60.0	50.0			

Notes:

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

#### 5.6 Test Results:

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

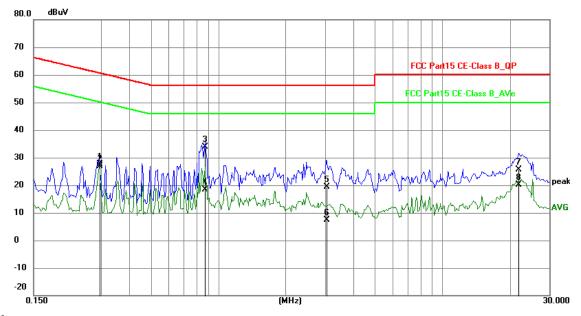
#### **EUT Operating Environment**

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

**EUT set Condition: 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	0.2943	17.97	9.76	27.73	60.40	-32.67	QP	Р
2	0.2943	17.15	9.76	26.91	50.40	-23.49	AVG	Р
3	0.8715	24.04	9.79	33.83	56.00	-22.17	QP	Р
4	0.8715	8.71	9.79	18.50	46.00	-27.50	AVG	А
5	3.0350	9.60	9.84	19.44	56.00	-36.56	QP	Р
6	3.0350	-2.42	9.84	7.42	46.00	-38.58	AVG	Р
7	21.9306	14.88	10.80	25.68	60.00	-34.32	QP	Р
8	21.9306	9.42	10.80	20.22	50.00	-29.78	AVG	Р

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

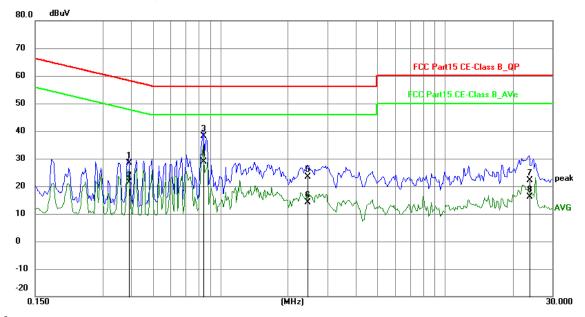
**EUT Operating Environment** 

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

**EUT set Condition: 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	0.3918	18.60	9.76	28.36	58.03	-29.67	QP	Р
2	0.3918	11.52	9.76	21.28	48.03	-26.75	AVG	Р
3	0.8403	28.44	9.78	38.22	56.00	-17.78	QP	Р
4	0.8403	19.08	9.78	28.86	46.00	-17.14	AVG	Р
5	2.4432	13.47	9.82	23.29	56.00	-32.71	QP	Р
6	2.4432	4.31	9.82	14.13	46.00	-31.87	AVG	Ъ
7	23.6544	11.15	10.91	22.06	60.00	-37.94	QP	Р
8	23.6544	5.14	10.91	16.05	50.00	-33.95	AVG	Р

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

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

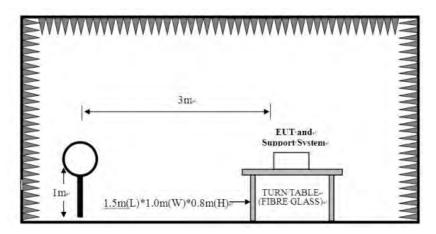
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

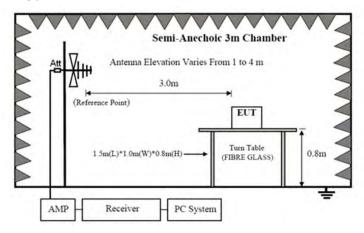


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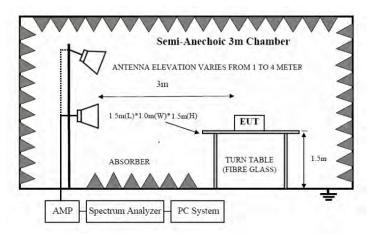
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For radiated emissions from 30MHz to1GHz



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 Stre	ength 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)
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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
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. Battery was fully charged during test

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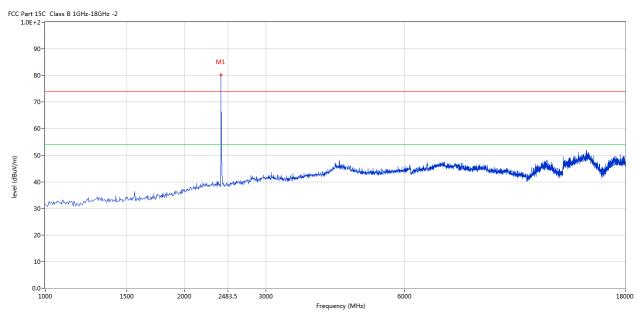


#### 6.5 Test result

#### A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



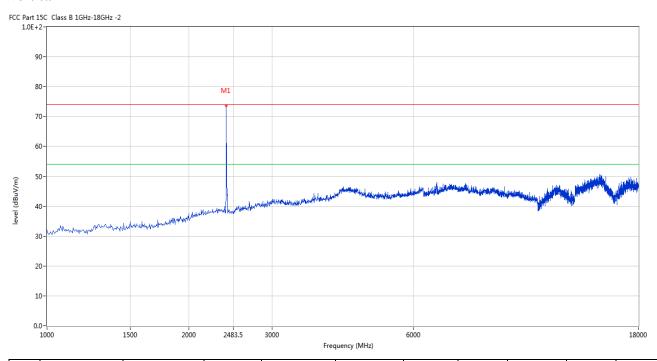
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	80.19	-3.57	114.0	-33.81	Peak	57.00	100	Horizontal	Pass

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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	2402	73.63	-3.57	114.0	-40.37	Peak	39.00	100	Vertical	Pass

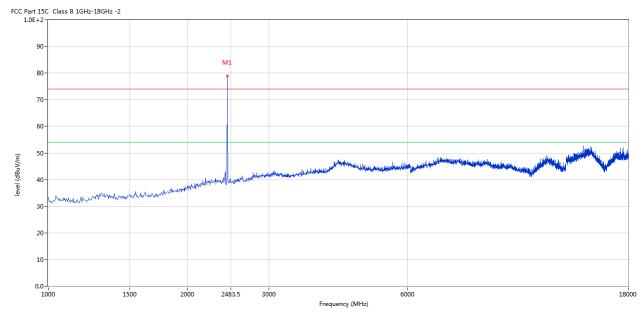
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal



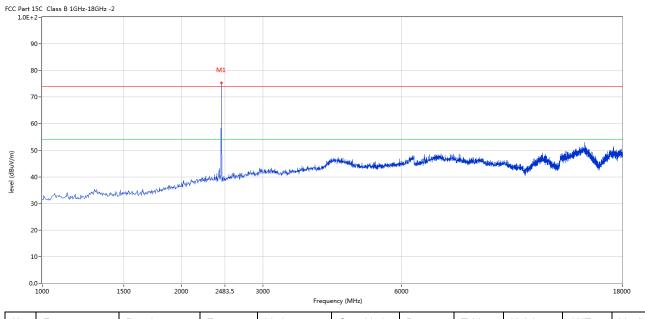
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2441	78.96	-3.57	114.0	-35.04	Peak	98.00	100	Horizontal	Pass

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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	75.27	-3.57	114.0	-38.73	Peak	42.00	100	Vertical	Pass

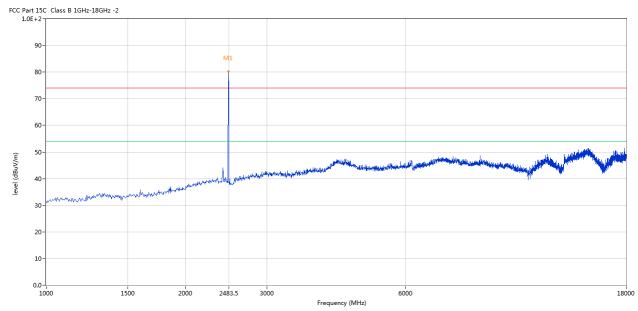
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



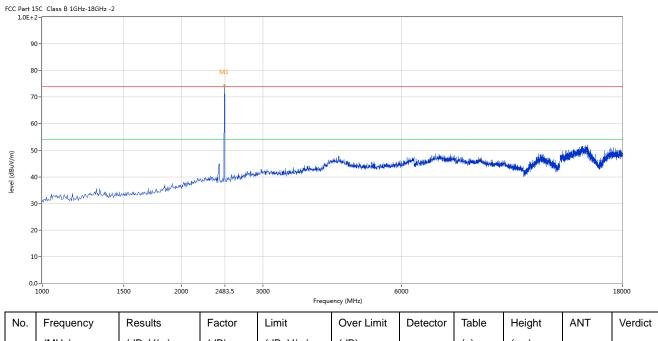
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	80.24	-3.57	114.0	-33.76	Peak	138.00	100	Horizontal	Pass

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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	2480	74.38	-3.57	114.0	-39.62	Peak	38.00	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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Date: 2024-10-15

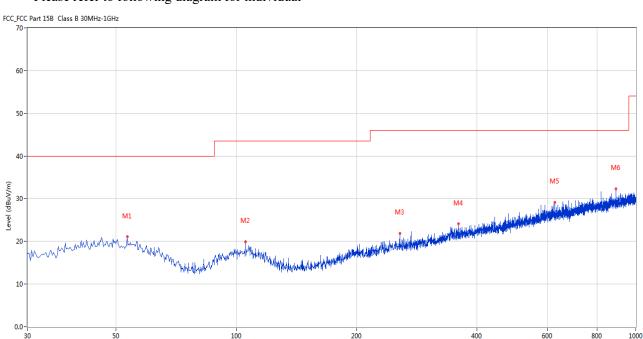


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	53.274	21.03	-11.51	40.0	18.97	Peak	177.00	100	Horizontal	Pass
2	105.399	19.89	-13.25	43.5	23.61	Peak	318.00	100	Horizontal	Pass
3	256.438	21.95	-12.01	46.0	24.05	Peak	2.00	100	Horizontal	Pass
4	359.960	24.06	-9.46	46.0	21.94	Peak	50.00	100	Horizontal	Pass
5	627.856	29.14	-4.97	46.0	16.86	Peak	124.00	100	Horizontal	Pass
6	892.357	32.36	-1.93	46.0	13.64	Peak	226.00	100	Horizontal	Pass

Frequency (MHz)

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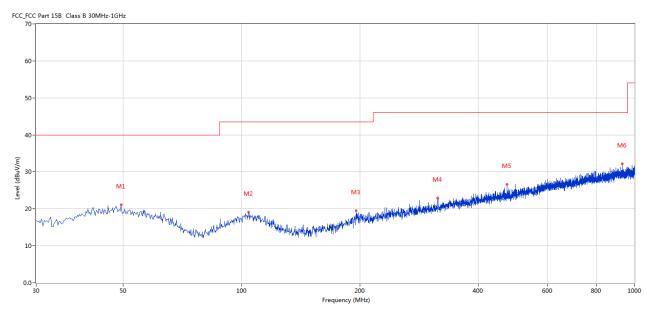


#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	49.395	21.10	-11.28	40.0	18.90	Peak	37.00	100	Vertical	Pass
2	104.186	19.14	-13.30	43.5	24.36	Peak	201.00	100	Vertical	Pass
3	195.829	19.46	-13.66	43.5	24.04	Peak	113.00	100	Vertical	Pass
4	315.836	22.96	-10.80	46.0	23.04	Peak	113.00	100	Vertical	Pass
5	473.664	26.68	-7.50	46.0	19.32	Peak	277.00	100	Vertical	Pass
6	930.662	32.20	-1.76	46.0	13.80	Peak	240.00	100	Vertical	Pass

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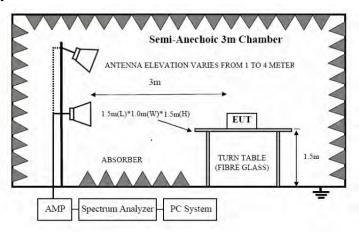


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

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

#### 7. 2 Radiated Test Setup



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

#### 7.3 Configuration of the EUT

Same as section 5.3 of this report

#### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

#### 7.5 Band Edge Limit

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

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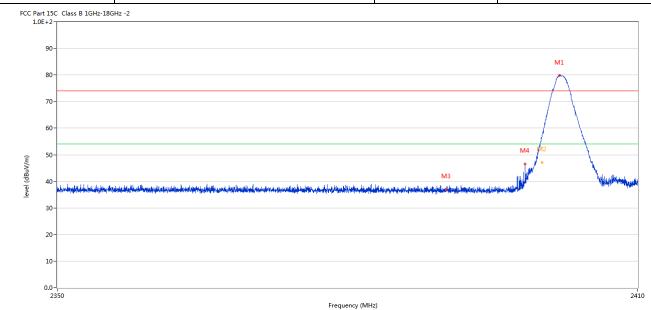
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#### 7.6 Test Result

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



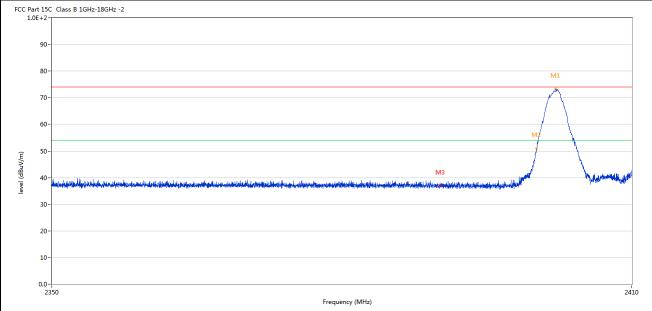
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.842	79.76	-3.57	74.0	5.76	Peak	68.00	100	Horizontal	N/A
2	2400.012	57.17	-3.57	74.0	-16.83	Peak	58.00	100	Horizontal	Pass
2**	2400.012	47.05	-3.57	54.0	-6.95	AV	58.00	100	Horizontal	Pass
3	2390.055	36.93	-3.53	74.0	-37.07	Peak	10.00	100	Horizontal	Pass
4	2398.258	46.60	-3.56	74.0	-27.40	Peak	58.00	100	Horizontal	Pass

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Date: 2024-10-15

T. ::		
Transmitting	Test Voltage	DC3.7V
deg. C,	Humidity	56% RH
Pass		
	deg. C,	deg. C, Humidity



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.022	73.20	-3.57	74.0	-0.80	Peak	92.00	100	Vertical	Pass
2	2400.057	50.98	-3.57	74.0	-23.02	Peak	97.00	100	Vertical	Pass
3	2390.055	37.14	-3.53	74.0	-36.86	Peak	259.00	100	Vertical	Pass

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Pı	roduct:		TWS 6	earphones		P	olarity		Horizont	al
l	Mode		Keeping Transmitting		ng Test Vol		Test Voltage		DC3.7V	
Tem	nperature		24 0	leg. C,		Н	ımidity	56% RH		I
Tes	t Result:		I	Pass						
Part 15C	Class B 1GHz-18GHz	-2								
90-			М	L						
80-			Now In	Tun,						
70-			- A	M.						
60-			/							
F0			<i>y</i>	M. M.						
50-		الماليليان الا. الماليليان الا.	W.	The same of the sa						
40-	haddin shiften shifted built ad it is the comment of	Hardrey and the state of the st		41	A CHANGE SHOP HAVE MANUFACTURED	the state of the section of	on the second section and the second section and the second section second section section section section sec	the shipping to the state of the state of	ومومون أجاهمل المصيف المفاض المعالم	Hoperand
30-										
20-										
10-										
10-										
0.0	I 170			2483.5	5 Frequency (MHz)					2500
			Factor	Limit	Over	Detector	Table	Height	ANT	1/
24	Frequency	Results	Factor							verd
lo.	Frequency (MHz)	Results (dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		verc
No.					Limit (dB) 6.24	Peak	(o) 104.00	(cm)	Horizontal	Verd N/A

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	Product:		TWS ea	rphones		Detect	or		Vertical	
	Mode	Keeping Transmitting		Test Voltage			DC3.7V			
Temperature			24 deg. C,			Humidity	56% RH			
Te	est Result:		Pa	iss						
	ort 15C Class B 1GF DE+2-	z-18GHz -2								
	90-									
	30-									
	80-			M1						
	70-									
	60-									
(w	50-									
(dBuV/m)		angan tanggi bilang ayan talan kasangan kasan	Wald Market	M.		de l'heren skriffell om op ke state si	ek istronoldsensssak	روم استرامیدان کارگار و دارا	والمساور والمساور والمساور والمساور والمساور	Nicales of Materia
level (dBuV/m)	40-	eranini iliangini leghisi sepikasi	Little de Little de la Constitución de la Constituc	M		o de la companya de de de la companya de la company	ah-feliassid-looseessab.	illekat e <b>ddfaidha</b> aithiteydaaf, ceta	neileas waard adda ah sada ka ah ah	Nigodo y oli saysi mayo
level (dBuV/m)	40 -	e paragonal delectrical legislative que have	wateh dawar	M.M.		And described were described and and	ah felikasid berkerada	Aboto Barbara de Carlos de Car	مريانية الم <mark>رادة الم</mark> رادة المرادة	Newton pol lands unite
level (dBuV/m)	40-	ورسايعة الأسرون الوأرية وبدأوية	Letter better be	M		der historia de destructura de la constanta de	a). Liste and longer and	inkut e <b>tti sikari</b> lle pirat aik	<u>જારેલા અનુ ત્રે તેમ અને મથક ફેટલ</u> ે જે હતી	Markey de landeren
level (dBuV/m)	40 -	eganisadi dina-qasad ingkanya kand	walk district	M		dts. Andre and their construction and and	ah februarik derenasik	Valuet estille belleve til för et en	مناوه العرفية فالمنافئة فالمنافؤة المنافؤة المنا	Newskern, phi, Staylands
level (dBuV/m)	40- 30- 20-	Reproduced to the second to	Lieta de Adrica de la Carta de		- New Sangaran, and resignated and physical people grave leaves, who	dr. Hare werth were hope of	ahipinadikananik	lahendhidanistydol, an	પાંક્ષણ અનુ એક એન્સ <b>લઇ</b> ને હતી.	
level (dBuV/m)	30- 20-	Received New Autority in the Personal	Will be Alle Control of the Control	2483	- New Sangaran, and resignated and physical people grave leaves, who	Andrewallika and history and h	e). In second inverse and the	in the second	nchen werden der Angelen Angel	2500
No.	40- 30- 20-		Factor		- North Magnetian cipation and polygon lamps in	Detector	Table	Height	ANT	2500
	30 - 20 - 10 - 2470			248:	.5 Frequency (MHz)					2500
	30- 20- 10- 2470	/ Results		248:	0.5 Frequency (MHz)		Table	Height		

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

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK 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 with gain 1.7dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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#### 9.0 20dB Bandwidth Measurement

#### **Test Configuration**



#### **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### Limit

N/A

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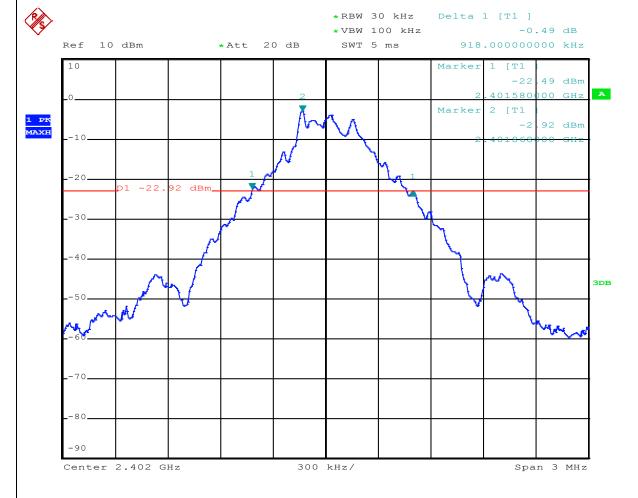
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#### **Test Result**

GFSK			
Product:	TWS earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	918kHz		



Date: 10.OCT.2024 14:08:45

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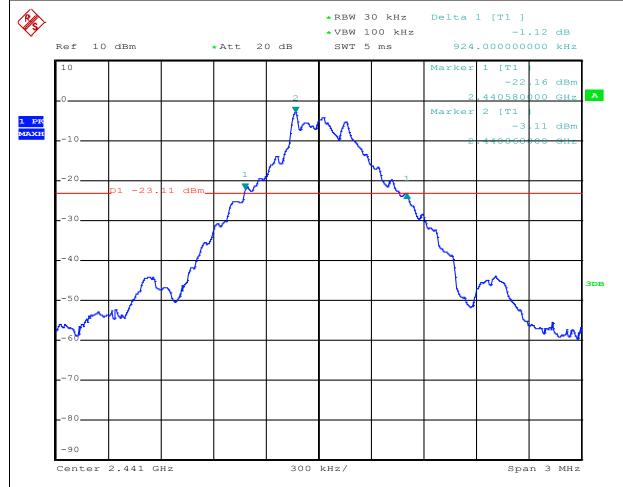
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Date: 2024-10-15



GFSK			
Product:	TWS earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	924kHz		-



Date: 10.0CT.2024 14:23:49

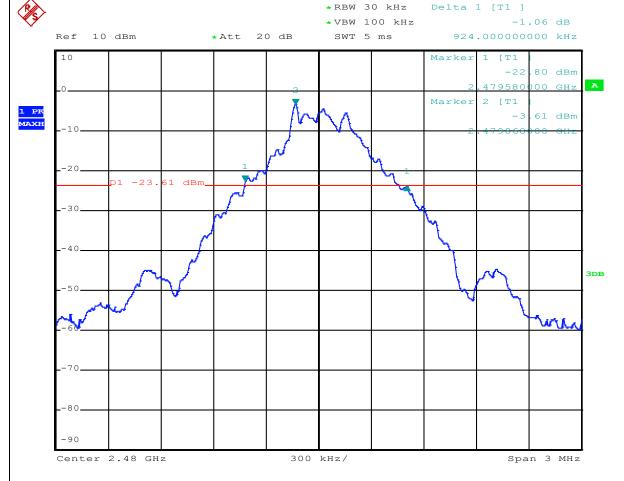
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Date: 2024-10-15



GFSK			
Product:	TWS earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	924kHz		



Date: 10.0CT.2024 14:31:43

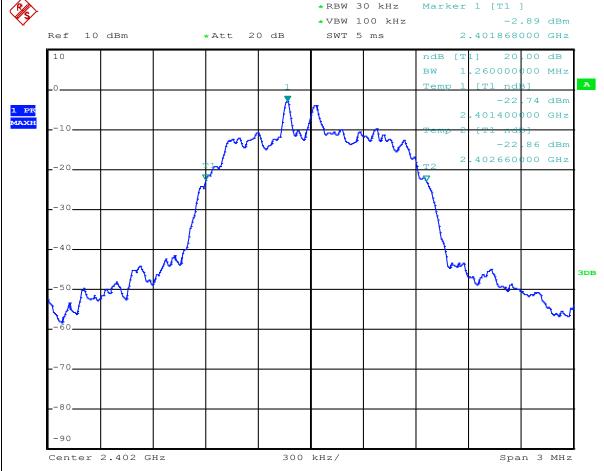
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Report No.: TW2409245E

Date: 2024-10-15



Л/4DQPSK			
Product:	TWS earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.260MHz		
À			



Date: 10.OCT.2024 14:50:45

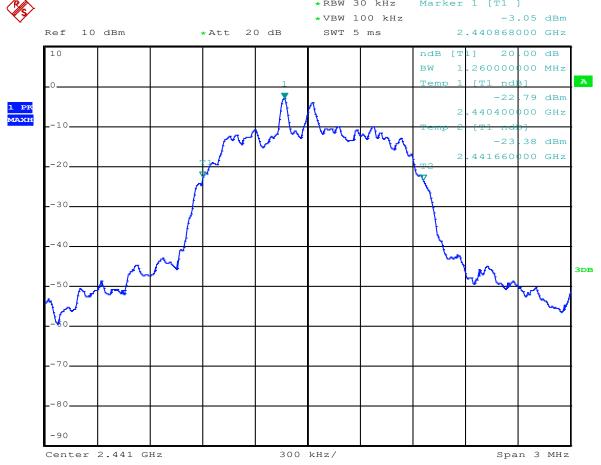
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Date: 2024-10-15



Л/4DQPSK			
Product:	TWS earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.260MHz		
6)	. DDW	1 30 kHz Marker 1	[ ]



Date: 10.OCT.2024 14:44:24

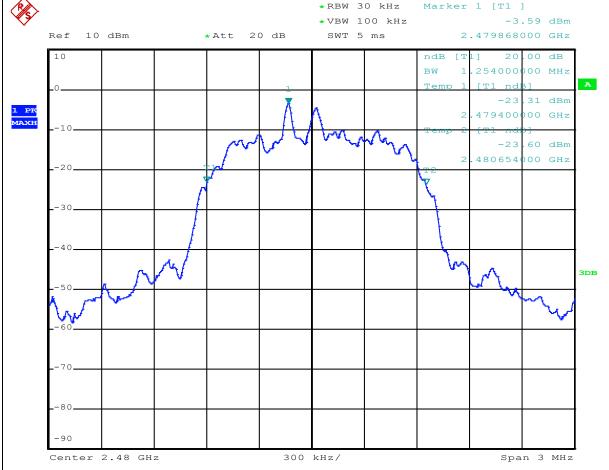
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Л/4DQPSK			
Product:	TWS earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.254MHz		
^		·	



Date: 10.OCT.2024 14:37:41

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Span 3 MHz

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Product: TWS earphones			3	Test Mode:		Keep transmitting		
Mode	Kee	ping Transmitt	Test Voltage Humidity		DC3.7V 56% RH			
Temperature		24 deg. C,						
Test Result:		Pass		Detector		PK 		
0dB Bandwidth		1.260MHz						
Ref 10 dE	m	*Att 20 dB		00 kHz		1 [T1 -3	.81 dBm	
10					ndB [T BW 1 Temp 1	.260000		A
PK10			N				.81 dBm	
20		July July	M rand	M	2	-24 .402660	.09 dBm	
30	j				K.			
40								
50					lay	Λ.		3DB
-50 -50	٧					- 00	m	

Date: 15.0CT.2024 15:40:57

Center 2.402 GHz

300 kHz/

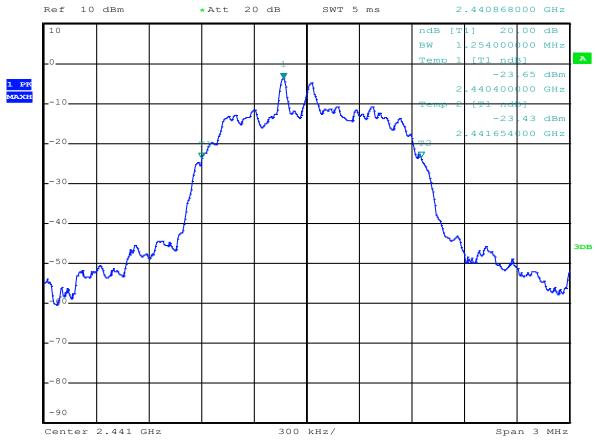
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8DPSK			
Product:	TWS earphones	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.254MHz		
		30 kHz Marker	1 [T1 ]
Ref 10 dBm	*Att 20 dB SWT 5	5 ms 2	.440868000 GHz
10		ndB [T	1] 20.00 dB



Date: 15.0CT.2024 15:41:49

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Span 3 MHz

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8DPSK				
Product:	TWS earphones		Test Mode:	Keep transmitting
Mode	Keeping Tran	nsmitting	Test Voltage	DC3.7V
Temperature	24 deg.	C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
20dB Bandwidth	1.254MHz			
<u> </u>		*RBW 30	kHz Marker	1 [T1 ]
<b>45</b>		*VBW 10		-4.14 dBm
Ref 10 dBm	*Att 2	0 dB SWT 5	ms 2	.479868000 GHz
10			ndB [T	1] 20.00 dB
			BW 1	
-0	+ +	1 1	Temp 1	
1 PK		l ⊼ α	2	-24.17 dBm
<b>MAXH</b> 10				[T1 ndb]
	1	V V V	My	-24.31 dBm
-20		Ť	2	.480654000 GHz
	<b>₩</b>		V <sub>T</sub>	
30	/		1	
-30				
-40	<del>                                     </del>			
	<u>.</u>  /¼/		M	3DB
-50	<del>Y                                    </del>			<del>V* \_  </del>

Date: 15.0CT.2024 15:42:39

Center 2.48 GHz

300 kHz/

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#### 10.0 FCC ID Label

#### FCC ID: 2BK3OATTL08

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

#### 11.1 Conducted test View



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### Radiated emission test view



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

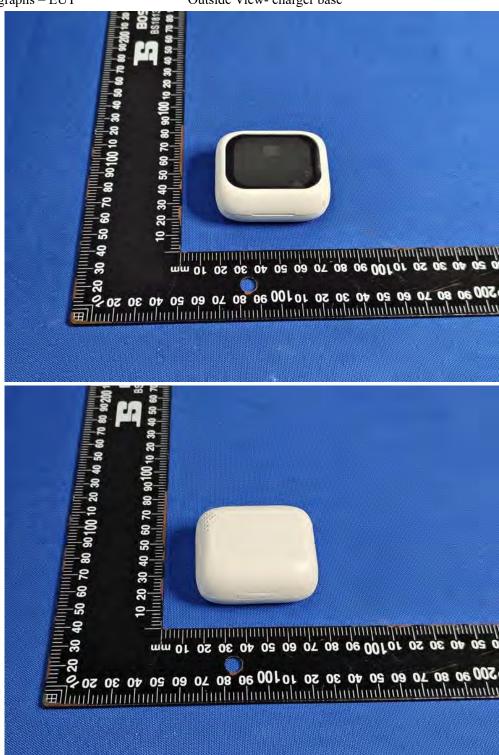
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## 11.2 Photographs – EUT

Outside View- charger base



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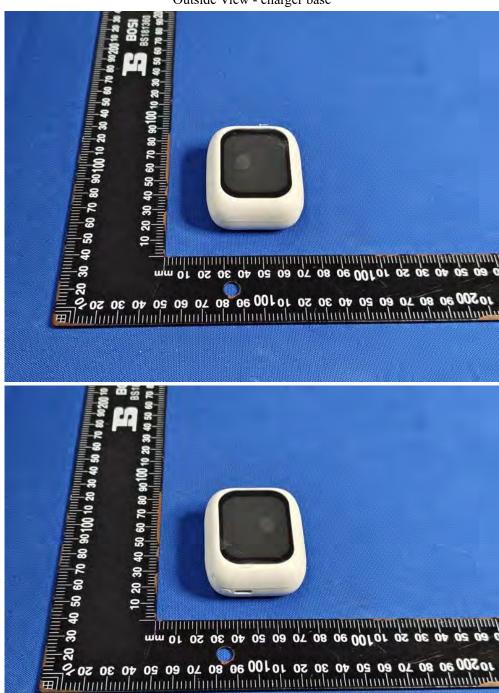
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Outside View - charger base



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Outside View - charger base





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Outside View - charger base



Date: 2024-10-15



Inside View - charger base



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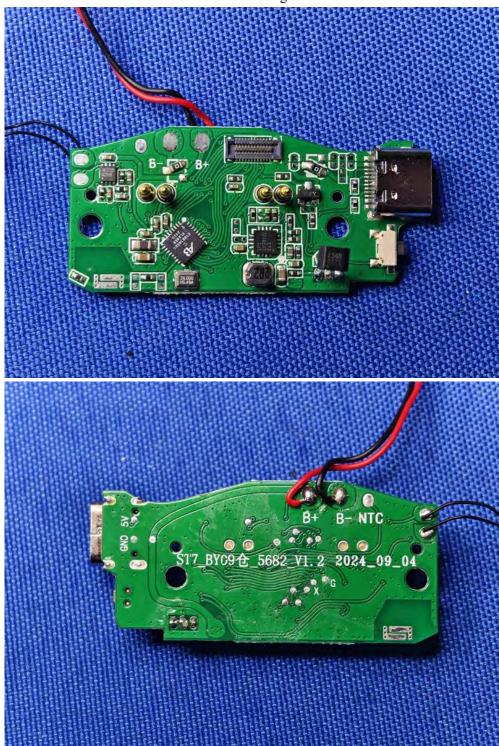
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Inside View - charger base



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

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Inside View - charger base





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Inside View - charger base





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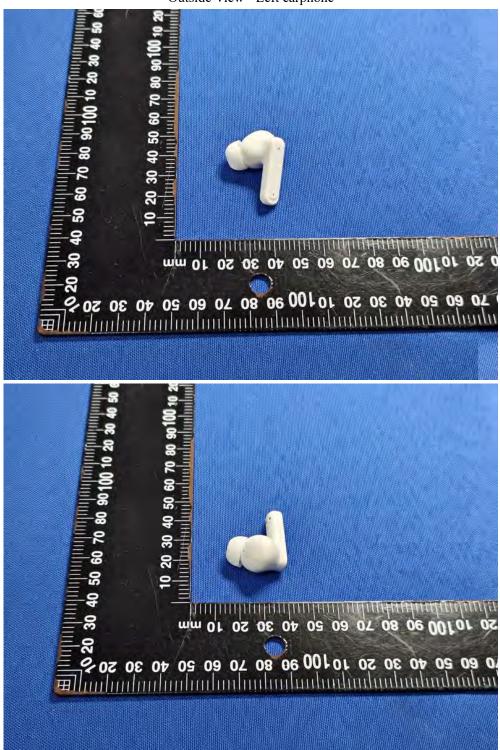
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Outside View - Left earphone



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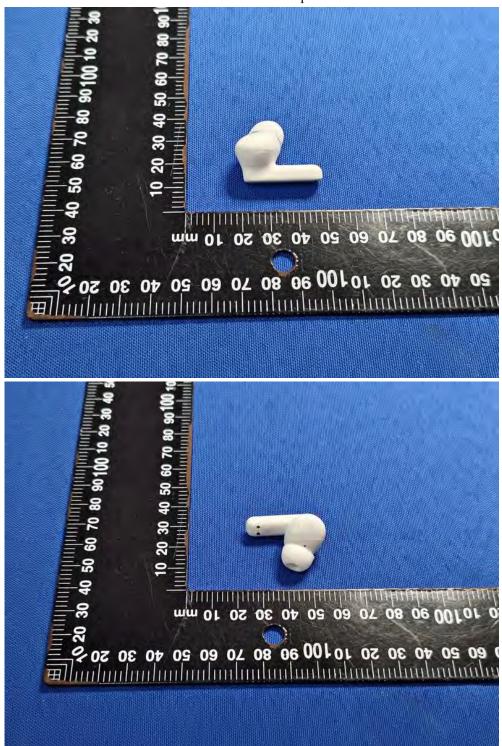
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Outside View - Left earphone



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Inside View - Left earphone



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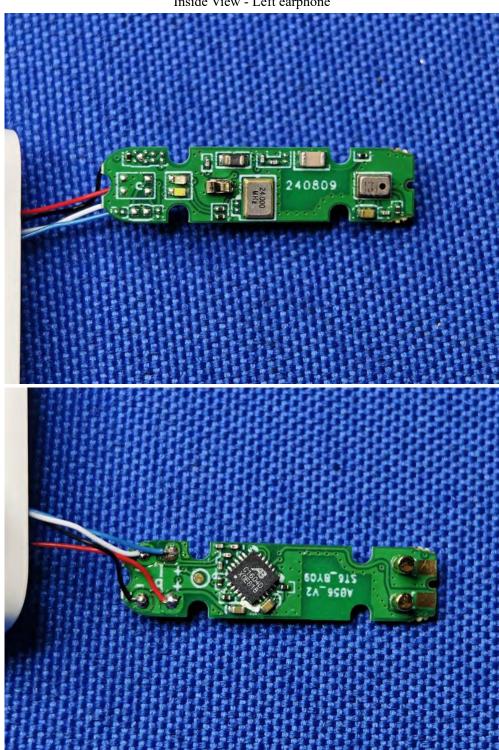
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Inside View - Left earphone



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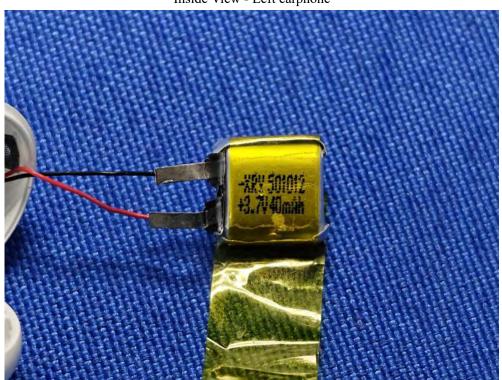
adopt any other remedies which may be appropriate.

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Inside View - Left earphone



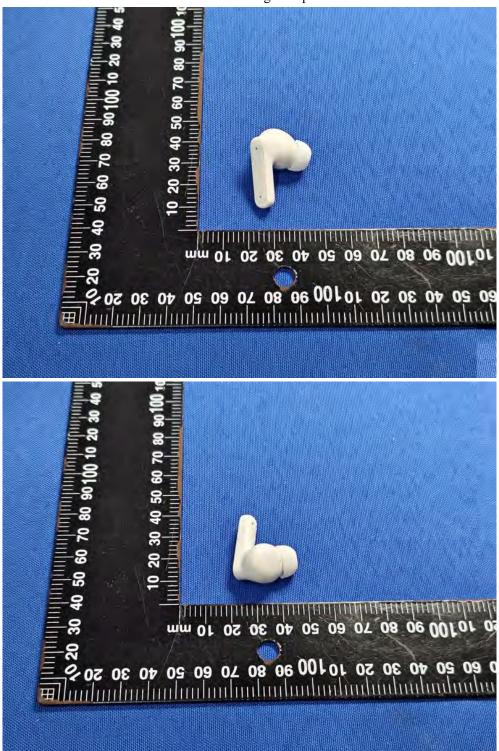
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Outside View - Right earphone



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Outside View - Right earphone



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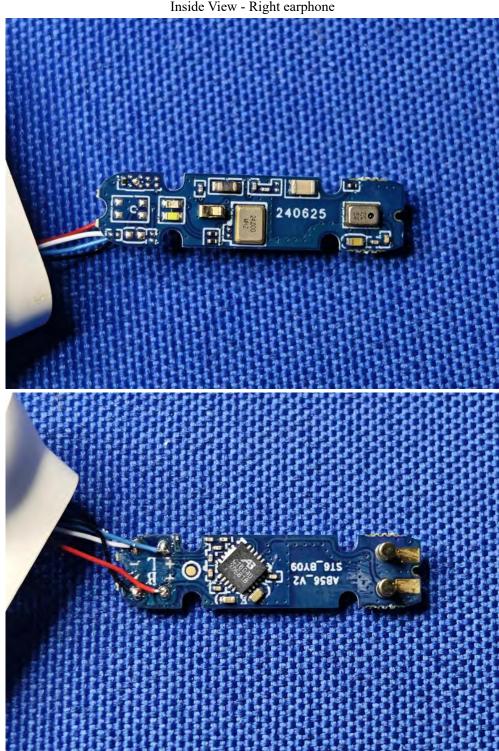
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Inside View - Right earphone



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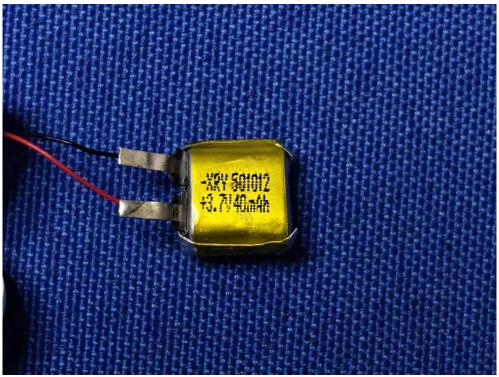
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Inside View - Right earphone



-- End of the report--