

Report No.: TW2409002E

Applicant: Shenzhen Jian Yi KeJi Youxian Gongsi

Product: Wireless Headphones

Model No.: BTH02

Trademark: BESIGN

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

Term lar

Approved By

Terry Tang

Manager

Dated: September 11, 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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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

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

Village, Nanshan District, Shenzhen, China

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

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shenzhen JianYi KeJi Youxian Gongsi

Address: Rm401, Unit 1, B1 Bulding, Bqu, Jinhuhuayuan, Jinhu Road, Qingshuihejiedao, Luohu

District, Shenzhen 518024, China

1.3 Description of EUT

Product: Wireless Headphones

Manufacturer: Shenzhen Jian Yi KeJi Youxian Gongsi

Address: Rm401, Unit 1, B1 Bulding, Bqu, Jinhuhuayuan, Jinhu Road, Qingshuihejiedao,

Luohu District, Shenzhen 518024, China

Trademark: BESIGN
Model Number: BTH02
Additional Model Name N/A

Rating: Input: 5Vdc

Battery: DC3.7V, 450mAh Li-ion battery

Serial No.:

X004DCCFUF

Hardware Version: SH63_ATS2817_V1.4

Software Version: SH63_ATS2817_BTH02_240921_v1.2.1. FW

Operation Frequency: 2402-2480MHz

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

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain 2.0dBi maximum (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-09-02 to 2024-09-11

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty = 3.6dB

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

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	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			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		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 EU	Γ has been	tested a	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
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

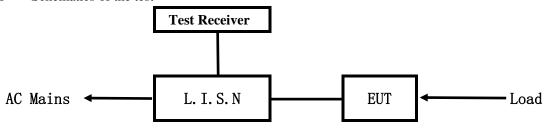
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

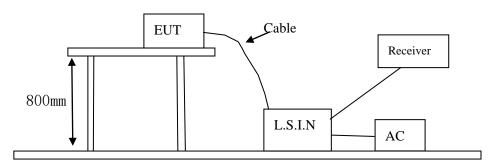


EUT: Equipment Under Test

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
Wireless	Shenzhen JianYi KeJi	BTH02	2A2IXBTH02A
Headphones	Youxian Gongsi	B1 H02	ZAZIADI IIUZA

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	Aver ge Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
0.50 ~ 5.00	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes:

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

5.6 Test Results:

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

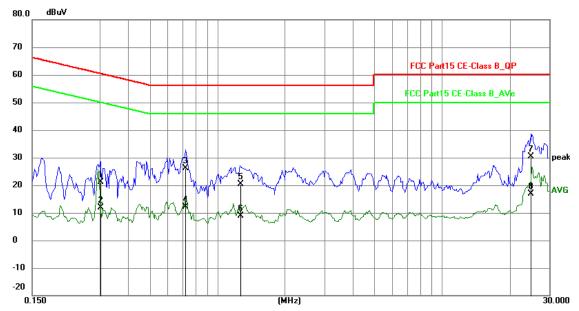
EUT Operating Environment

Temperature: 25°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	0.3021	11.26	9.76	21.02	60.18	-39.16	QP	Р
2	0.3021	2.01	9.76	11.77	50.18	-38.41	AVG	Р
3	0.7233	16.31	9.78	26.09	56.00	-29.91	QP	Р
4	0.7233	2.23	9.78	12.01	46.00	-33.99	AVG	Р
5	1.2653	10.71	9.79	20.50	56.00	-35.50	QP	Р
6	1.2653	-0.93	9.79	8.86	46.00	-37.14	AVG	Ъ
7	24.8244	19.51	10.98	30.49	60.00	-29.51	QP	Р
8	24.8244	5.95	10.98	16.93	50.00	-33.07	AVG	Р

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

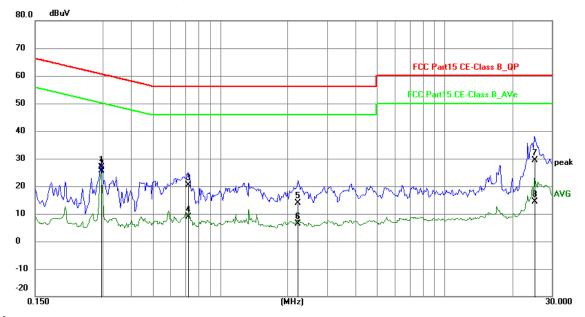
EUT Operating Environment

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	0.2943	17.06	9.76	26.82	60.40	-33.58	QP	Р
2	0.2943	15.86	9.76	25.62	50.40	-24.78	AVG	J
3	0.7194	10.72	9.78	20.50	56.00	-35.50	QP	Р
4	0.7194	-0.94	9.78	8.84	46.00	-37.16	AVG	J
5	2.2248	4.08	9.81	13.89	56.00	-42.11	QP	Р
6	2.2248	-3.47	9.81	6.34	46.00	-39.66	AVG	Р
7	25.0740	18.43	10.99	29.42	60.00	-30.58	QP	Р
8	25.0740	3.35	10.99	14.34	50.00	-35.66	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:

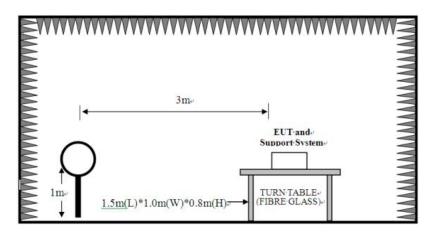
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

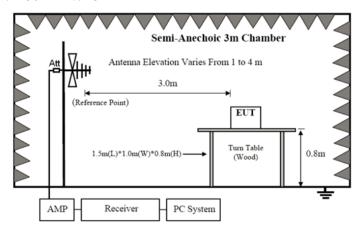


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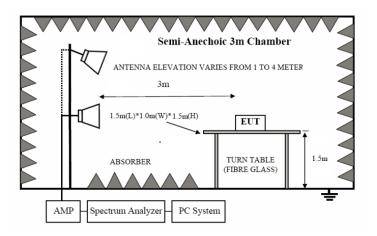
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For radiated emissions from 30MHz to1GHz



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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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 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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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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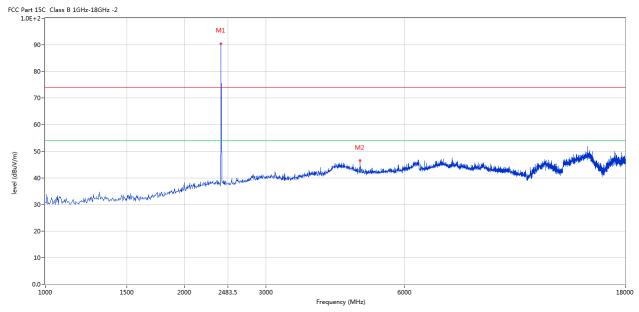


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



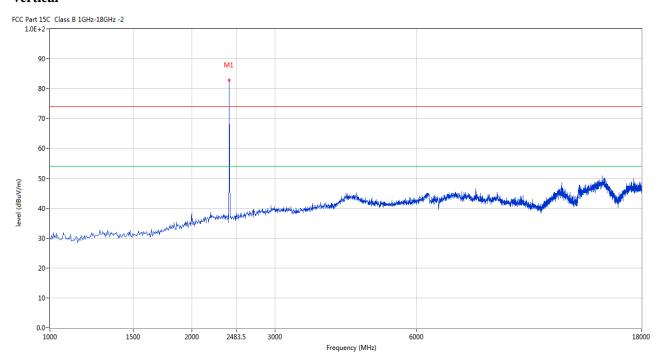
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	90.41	-3.57	114.0	-23.59	Peak	109.00	100	Horizontal	N/A
2	4802.799	46.47	3.12	74.0	-27.53	Peak	99.00	100	Horizontal	Pass

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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	82.93	-3.57	114.0	-31.07	Peak	0.00	100	Vertical	N/A

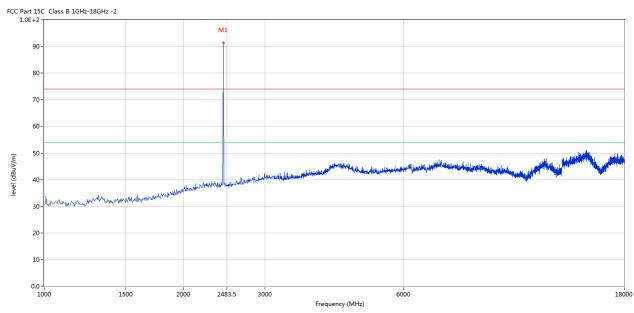
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



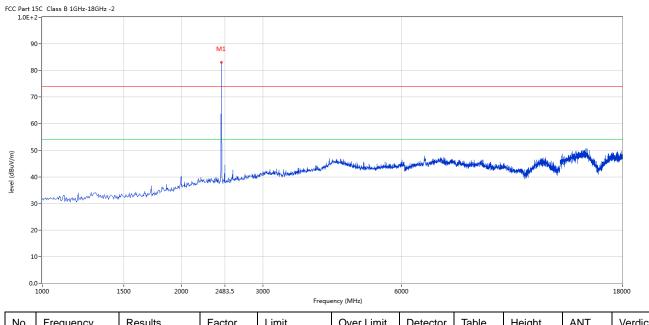
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.30	-3.57	114.0	-22.70	Peak	245.00	100	Horizontal	N/A

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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	83.05	-3.57	114.0	-30.95	Peak	46.00	100	Vertical	N/A

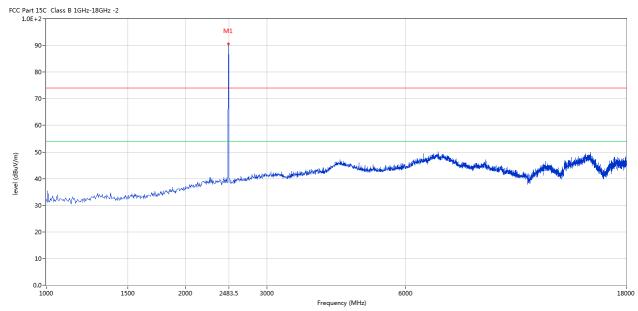
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



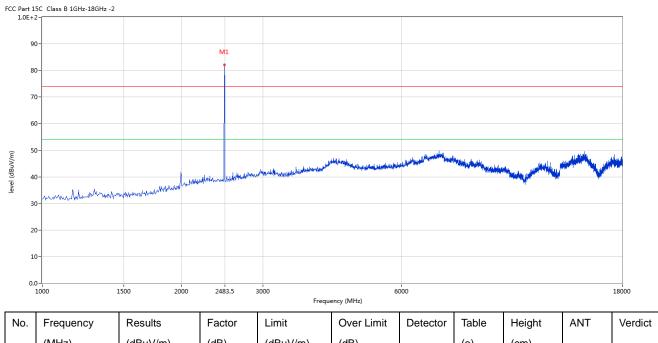
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	90.65	-3.57	114.0	-23.35	Peak	105.00	100	Horizontal	N/A

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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	82.19	-3.57	114.0	-31.81	Peak	45.00	100	Vertical	N/A

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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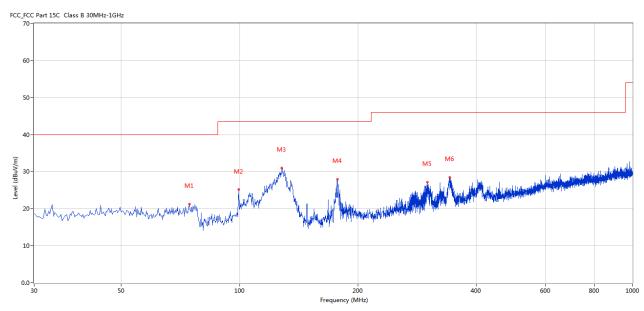


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	74.609	21.27	-17.24	40.0	18.73	Peak	205.00	100	Horizontal	Pass
2	99.580	25.12	-13.60	43.5	18.38	Peak	155.00	100	Horizontal	Pass
3	128.188	30.98	-16.73	43.5	12.52	Peak	202.00	100	Horizontal	Pass
4	177.403	27.95	-15.66	43.5	15.55	Peak	1.00	100	Horizontal	Pass
5	300.805	27.10	-11.01	46.0	18.90	Peak	118.00	100	Horizontal	Pass
6	342.989	28.51	-9.67	46.0	17.49	Peak	354.00	100	Horizontal	Pass

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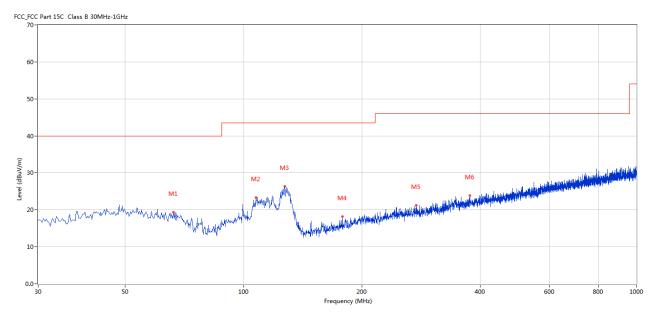


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	66.366	19.43	-14.08	40.0	20.57	Peak	18.00	100	Vertical	Pass
2	107.581	23.35	-13.40	43.5	20.15	Peak	50.00	100	Vertical	Pass
3	127.218	26.34	-16.62	43.5	17.16	Peak	194.00	100	Vertical	Pass
4	178.373	18.22	-15.46	43.5	25.28	Peak	105.00	100	Vertical	Pass
5	274.621	21.23	-11.64	46.0	24.77	Peak	29.00	100	Vertical	Pass
6	376.446	23.92	-9.38	46.0	22.08	Peak	319.00	100	Vertical	Pass

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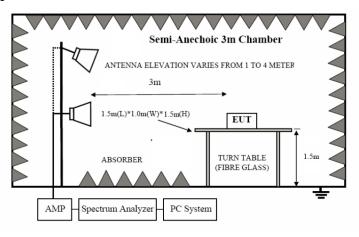


7. Band Edge

7.1 Test Method and test Procedure:

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

7. 2 Radiated Test Setup



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

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

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

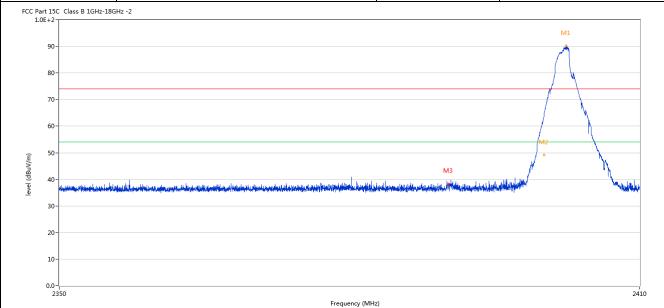
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7.6 Test Result

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



No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.307	90.27	-3.57	74.0	16.27	Peak	167.00	100	Horizontal	N/A
2	2400.027	64.33	-3.57	74.0	-9.67	Peak	108.00	100	Horizontal	Pass
2**	2400.027	49.14	-3.57	54.0	-4.86	AV	108.00	100	Horizontal	Pass
3	2390.070	38.23	-3.53	74.0	-35.77	Peak	108.00	100	Horizontal	Pass

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2394.119

41.51

-3.55

74.0

-32.49

Peak

0.00

100

Vertical Pass



	Product:	'	Wireless He	eadphones		Detect	or		Vertical	
	Mode	I	Keeping Tra	ansmitting		Test Volt	age		DC3.7V	
Te	mperature		24 deg	g. C,		Humid	ity		56% RH	
Te	est Result:		Pas	SS						
CC Par	t 15C Class B 1GHz-18GH	lz -2			•		•			
	90-								M1	
	80-							/	\uparrow	
	70-									
	60-									
									-M	
(II)	50-						M4 M5	/M2		
level (abuv/m)	40-	التلفأ التقال المجاريس المقام ومقاري المقارع والمقدري	nd and an	i i i i i i i i i i i i i i i i i i i	ar a sar cart i fa	M3		ارايا	<u> </u>	Parishing and Application
<u> </u>	Agreed the Application before the world	والمرابع والمراجع المجار والمراجع المراجع والمراجعة المراجعة المراجعة	هجج أكاليك ليرسانوا بالدانيوسان الكالم	كر كناد وبالغاذ لنا أغيب ليناسية لاغيد بالسباء يابد	فالمناه والمناوة المراجعة والمناوي المناوي المراجعة	والمنافقة المطاول المراويات والمواجعة ومراوعة	And the latest the same of the latest terms of	AU (MA, Talou Ao, A MAY)		
	30-			to the share the completence of the share and a series	thing to the property of the same of the same of	altelit all sesses i losses amili d'alts	And the second s	tred a changle.		- Prophilips of Sept.
	30-			ter f. f. s and a "balance complete complete to the state of the state	والورسيرية والمواسمات والمفترة والمتراسة فللموا	فقيط المقدمة ومحمدة المتاهدة المتاهدة المتاهدة المتاهدة	and the second s	in tradition of the control of the c	<u> </u>	
	20-			and to any any and the second fire a second and any and a second a second and a second a second and a second a second and	and the second s	المال والمستحمدة ومناهدة مناهدة والمالة المالة	e de la companya de	a en a entre Es.		
				and the second second second second second	الإستنباغ بمقامه فالمقارب والمارات	ر ا قال المستقمية بهديه راقه تاه تاه تاه	a de la composição de la	a sag a samme fir		
	20-				الإستناق مقامعها بالقداب يهاية وال	A LEE TOWNS AND A SECOND STREET	Taran keraban keragai agam agam a	(TOMET APPRICE)		
	20-				Frequency (MHz)	THE STREET	Tarakan kengangan dan keng	THE THE SECTION OF TH		
	20-	Results	Factor		and the second s	Detector	Table	Height	ANT	241
	20-10-0.0-2350	Results (dBuV/m)	Factor (dB)		Frequency (MHz)	4 40 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Table (o)	Height (cm)	ANT	241
Ю.	20- 10- 0.0- 2350 Frequency			Limit	Frequency (MHz) Over Limit	4 40 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			ANT Vertical	241
lo.	20- 10- 0.0- 2350 Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(o)	(cm)		verdi
lo.	20- 10- 0.0- 2350 Frequency (MHz) 2402.142	(dBuV/m) 82.29	(dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 8.29	Detector Peak	(o) 6.00	(cm)	Vertical	Verdi N/A Pass
No.	20- 10- 0.0- 2350 Frequency (MHz) 2402.142 2400.042	(dBuV/m) 82.29 59.16	(dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 8.29 -14.84	Detector Peak Peak	(o) 6.00 6.00	(cm) 100 100	Vertical Vertical	²⁴¹
lo.	20- 10- 2350 Frequency (MHz) 2402.142 2400.042 2400.042	(dBuV/m) 82.29 59.16 44.01	(dB) -3.57 -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHz) Over Limit (dB) 8.29 -14.84 -9.99	Detector Peak Peak AV	(o) 6.00 6.00 6.00	(cm) 100 100	Vertical Vertical Vertical	Verd N/A Pass Pass

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Keeping Transmitting 24 deg. C, Pass	Test Voltage Humidity	DC3.7V 56% RH
Pass		56% RH
M1		
M1		
M _M 2		
Marine and	in the first of the state of th	teld and between the tell and a shape that and the tell and the shape the sh
		2500
	248.5	

No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480.107	90.26	-3.57	74.0	16.26	Peak	107.00	100	Horizontal	N/A
2	2483.500	51.65	-3.57	74.0	-22.35	Peak	107.00	100	Horizonta	Pass

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F	Product:	7	Wireless H	eadphones		Detec	tor		Vertical	
	Mode	F	Keeping Tr	ansmitting		Test Vo	ltage		DC3.7V	
Tei	mperature		24 de	g. C,		Humio	lity		56% RH	
Te	st Result:		Pa	SS						
CC Part	t 15C Class B 1GHz-18GH	lz -2			•			•		
90-			M1							
80-				\						
70-			N	V						
				,						
60-			N	M						
50-		.1		M2						
		N	/	M2	λ.					
	or the said of the state of the state of the said of t	And de la company of the later	/	M2	The published and the place at the world and the		i, delega de la institut fortibora	iddarkfogariddiolg dide	process of the safety deposits of the	rana dikad
		Adding	/	M2	والمسمر المساق والمساورة والمواسنة والمساورة و	d deline a meditari kiriki sinda	is delegand the incidence of the land	ald objective and a	president de la president	or some hardens believed
ovel (dBuV/m)	م الاين الماركة الماركة	uduh da kerentikan da A	/	M2	Two holder that the first feet was a substitute of the substitute	e klimpen period state in principal de	<u>, despolation des la citta pa</u>	واراجه وتعير الفارس أوارات	omen, dalige, bel sid in A some and a	water to the said
level (dBn//ш) 30- 20-	क्षेत्रकां प्रकृत्यकं प्रकृतिकां के प्रकृतिकां के स्वतिकां के स्वतिकां के स्वतिकां के स्वतिकां के स्वतिकां के स	All de desirement species and the second spec	/	M2	i mangalati perikanan dina pendanan kenan dina kena	ektoromonistatististist	i ding melakangkan Palikang	editurbing middleste stebe	omer hallow he silk and some control	marin philippe
level (dBuV/m) 30-	क्षेत्रकां प्रकृत्यकं प्रकृतिकां के प्रकृतिकां के स्वतिकां के स्वतिकां के स्वतिकां के स्वतिकां के स्वतिकां के स	uduk dai residikusi.	/	M2	i ^{t ma} ndulkadi andrida kari daga lagu kanangan andrida ka	e himperpolate in the party such	n data of the space of all long	والمراجعة والمساولة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة	near laife, ini die de generales	Was to the Mark
(\(\mathbb{R}\)/\(\lambda\)/\(\lambda\) 40- 30- 20- 10-	opensi Vip Mei Pophery Latin J. Helleria	All had be described to the second se	/	l And		eddwr a nedd a dregwydd	i dita peliking disale sikkeya	idda-bhleanideade eile	omas, Adjor, Sel jalijan di gomesada	
(\(\mathbb{R}\)/\(\lambda\)/\(\lambda\) 40- 30- 20- 10-	रुपेश्वरको में कुन असे ने कुने _{भाषा} जे जो जो जो जो की स्थापन	udurk de i verreit (teurium)		2483.5		e Africa es mandad de la latega de de	n data nel lla seguina (a llà e gg	ekholokiya wakilada ah he	mas, helje, hel jel, hel genesare	2500
(\(\mathbb{R}\)/\(\lambda\)/\(\lambda\) 40- 30- 20- 10-	opensi Vip Mei Pophery Latin J. Helleria	Results	Factor	2483.5	5	Detector	Table	Height	ANT	
(m/), 40- 40- 30- 20- 10- 24-	And the safety of a side of the safety of th		Factor (dB)	2483.	; Frequency (MHz)					2500
(m/), 40- 40- 30- 20- 10- 24-	470 Frequency	Results		2483.: Limit	Frequency (MHz) Over Limit		Table	Height		2500

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 PCB antenna with gain 2.0dBi 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

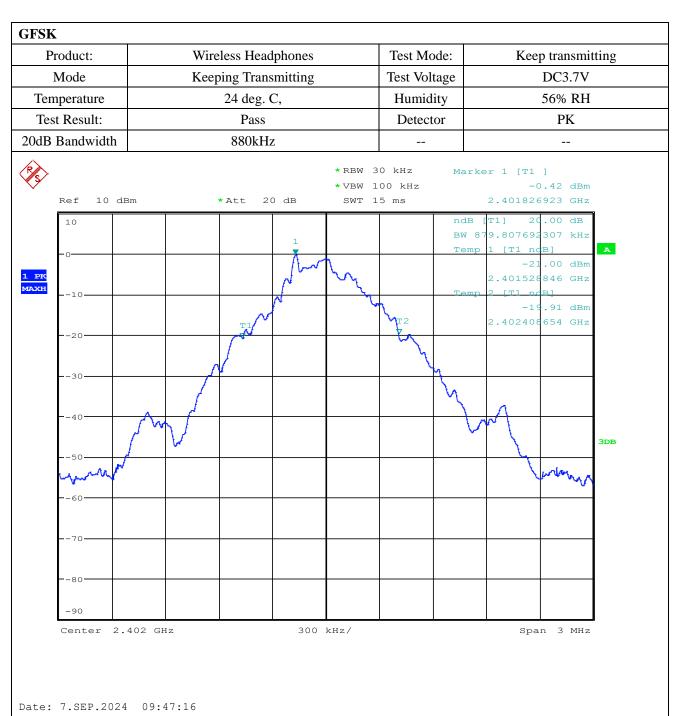
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Test Result



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Pro	oduct:		Wire	less Head	dphones		Test M	Iode:	K	keep transmitti
N	/Iode		Keep	oing Tran	smitting		Test Vo	oltage		DC3.7V
Tem	perature			24 deg.	C,		Hum	idity	56% RH	
Test	Result:			Pass			Dete	ctor		PK
20dB I	Bandwidth			875kH	Z					
R/S>	Ref 10 d	Bm	,	*Att 20	0 dB	*RBW 3	00 kHz	Marke	er 1 [T1 -1 2.440826	1.01 dBm
	10				1			BW 87	T1] 20	000 kHz
1 PK	-10				Mar	L.		Temp	-20	
	20			T1	M	ν.	T ₂		-20 2.441408	.49 dBm
	30		^				- Jy	~		
	40							M	Λ	
	50		\sim					\ <u></u>		3DB
	mul	•								
	70									
	80									
	-90									
_	Center 2.	.441 GH	Iz		300	kHz/			Spa	n 3 MHz

Date: 7.SEP.2024 09:51:50

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Product:	Wi	reless Headphone	S	Test M	Iode:	K	Leep transmitt	
Mode	Kee	eping Transmitting	g	Test Vo	oltage		DC3.7V	
Temperature		24 deg. C,		Humi	dity	56% RH		
Test Result:		Pass		Dete	ctor		PK	
0dB Bandwidth		875kHz						
Ref 10 d	Bm	*Att 20 dB	*RBW 30	00 kHz	ndB [er 1 [T1 -1 2.479826 T1] 20 5.000000	.49 dBm 5923 GHz	
-0		1	1			1 [T1 no -21 2.479533 2 [T1 no	.26 dBm	
20		TIV		M _{T2}		-21 2.480408		
40	Ann	AV			74	ΛA		
50 <u></u>						1	3DE	
- -70							V	
80								
-90								
Center 2.	.48 GHz	30	0 kHz/			Spa	n 3 MHz	

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Span 3 MHz

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Product:	Wir	eless Head	lphones		Test Mo	ode:	Kee	p transmitt	ing
Mode	Kee	ping Trans	smitting		Test Vol	tage		DC3.7V	
Temperature		24 deg. (C,		Humid	ity		56% RH	
Test Result:		Pass			Detect	or		PK	
OdB Bandwidth		1.260MI	Hz						
				* RBW 3	0 kHz	Mark	er 1 [T1]	
3				*VBW 1	00 kHz		-(0.59 dBm	
Ref 10 dF	3m	*Att 2	0 dB	SWT 1	5 ms		2.401822	2115 GHz	
10						ndB		.00 dB	
			1			BW	1.259615		
0		+	7			Temp	1 [T1 no		A
PK			[] [<i>T</i>				.31 dBm	
10		\perp	$\sqrt{}$	Wh	۸ ۸ ۵	Temp	2.401373 2 [T] pc	Bl	
10		17 V	ľ	"	$\wedge_{\Lambda} J$		-20	.58 dBm	
		T _t			Į Į	т2	2.402639	423 GHz	
20						Ĭ			
	كبر ا								
30									
-40									
Λ.	- MW					M	1 h 1		
							' \www.	100	3DB
-50								~ ~	
60									
-70									

Date: 7.SEP.2024 10:11:58

Center 2.402 GHz

-90

300 kHz/

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Product:	Wii	reless Headphones		Test M	Iode:	K	eep transmit	tting
Mode	Kee	eping Transmitting		Test Vo	oltage		DC3.7V	
Temperature		24 deg. C,		Humi	dity	56% RH		
Test Result:		Pass			Detector		PK	
0dB Bandwidth		1.260MHz						
Ref 10 di	∋m	*Att 20 dB	* RBW 3 * VBW 1 SWT 1	00 kHz	Mark	er 1 [T1 -1 2.440826	.00 dBm	
10					ndB	1	.00 dB	
-0-		1			BW Temp		385 MHz B] 2	A.
PK			\wedge				.35 dBm	
10			- Land	Λ <u>Λ</u> χ.	Temp	2.440375 2 [Tl pc	R]	
				017		-21 2.441634	l	
20		# f*		į,	T2	2.441034	013 GHZ	
	لم ا							
30								
40 	-Mm/				М	\sim	31	DВ
50 V							$\checkmark\checkmark$	
60								
-70								
-80								
-90								
Center 2.	441 GHz	300	kHz/			Spa	n 3 MHz	

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Date: 7.SEP.2024 10:09:36

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Product:	Wire	eless Headphones		Test M	Iode:	K	Leep transmittin	
Mode	Kee	ping Transmitting		Test Vo	oltage		DC3.7V	
Temperature		24 deg. C,		Humi	dity	56% RH		
Test Result:		Pass		Detector		PK		
dB Bandwidth		1.240MHz						
Ref 10 dF	8m	*Att 20 dB		0 kHz 00 kHz 5 ms		2.479826	.48 dBm	
-0-		1			BW Temp	1.240384	615 MHz	
PK10			Mar.		Temp	-21 2.479375 2 [T1 pc	.88 dBm 000 GHz	
	I			∇v_{\downarrow}	Г2	-21 2.480615	.52 dBm 385 GHz	
20	Į,							
30								
~~~~~	MM				N	$\sim$	3DB	
50							V V ~	
60								
-70								
80								

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Product:	Wireless	Headphones		Test Mod	le:	Kee	o transmittin
Mode	Keeping	Transmitting		Test Volta	ige		DC3.7V
Temperature	24	deg. C,		Humidit	y		56% RH
Test Result:		Pass		Detecto	r	PK	
0dB Bandwidth	1.2	36MHz					
Ref 10 dB	m *At		*RBW 30 *VBW 10 SWT 15	00 kHz	Marke ndB BW	2.401826	.90 dBm 923 GHz
-0			M	\d	Temp	2.401384 2 [Tl no	.89 dBm
20				V _E	2	2.402620	192 GHz
40 40					V	M	
60							
70							
-90							
Center 2.	402 GHz	300	kHz/			Spa	n 3 MHz

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

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Mode	17		Product: Wireless Headphones					Keep transmitting	
Mode Keeping Transmitting  Temperature 24 deg. C,					Test Voltage Humidity		DC3.7V 56% RH PK		
									Test Result: Pass
B Bandwidth 1.236MHz			Hz						
Ref 10 dBm	n .	* Att 20	) dB	*RBW 30 *VBW 10 SWT 1	00 kHz		2.440826 [T1] 20	.53 dBm 923 GHz	
-0			1	١ ٨		BW Temp		.58 dBm	
10	_	_~~	$\sqrt{}$	Car \	VM	Temp	2.440384 2 [T1 nc -22 2.441620	Bl .01 dBm	
20		-1				F2			
40							-4		
-50 <u>-50</u>	1 W					w (	M	3DB	
60-									
70-									
80									
-90 Center 2.4			300					n 3 MHz	

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Product: Wireless Headphones  Mode Keeping Transmitting  Temperature 24 deg. C,					Test Mode: Test Voltage Humidity		Keep transmitting DC3.7V 56% RH										
										Test Result: Pass				Detector		PK	
										dB Bandwidth	1.231MHz						
Ref 10 dE	5m	*Att 20	) dB	*RBW 3 *VBW 1 SWT 1	00 kHz		2.479826	2.03 dBm									
10						BW	1.230769	231 MHz									
-0		~~		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	M	Temp	2.479384	.75 dBm 615 GHz									
	5				γ.	<b>T</b> 2	2.480615	385 GHz									
30																	
						l f											
~40 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\[ \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}\sqrt{\sqrt{\sqrt{\sq}}}}}}}\signtiqniftender\sintitend{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}					W	M	3DB									
60																	
-70																	
80																	
-90 Center 2.			300					n 3 MHz									

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#### 10.0 FCC ID Label

FCC ID: 2A2IXBTH02A

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 testing11.1 Conducted test View



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#### Radiated emission test view



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### 11.2 Photographs – EUT

### Outside View





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Outside View





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Outside View





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Inside View





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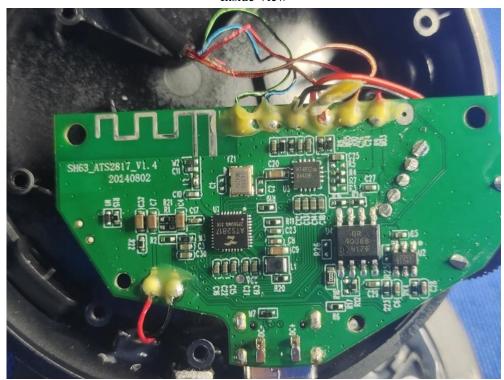
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Inside View





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adopt any other remedies which may be appropriate.

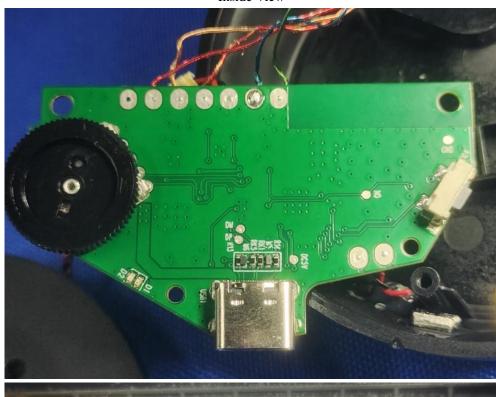
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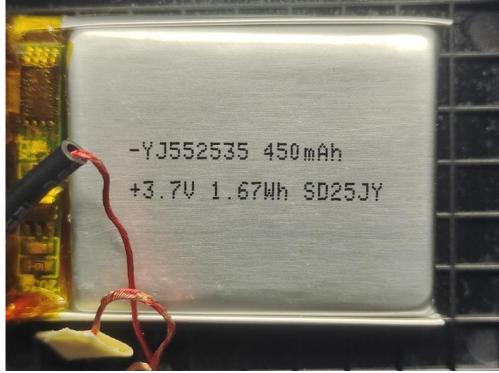
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Inside View





-- End of the report--

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