



Report No.: TW2107063E File reference No.: 2021-07-15

Applicant: Shenzhen JianYi KeJi Youxian Gongsi

Product: Bluetooth Headset

Model No.: BHF02

Brand Name: 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

Approved By

Jack Chung

Jack Chung

Manager

Dated: July 15, 2021

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 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

Date: 2021-07-15



Test Report Conclusion

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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 518023, China

Telephone: 13715368860

Fax: --

1.3 Description of EUT

Product: Bluetooth Headset

Manufacturer: SHENZHEN SURE THING INDUSTRY AND COMMERCE DEVELOPMENT

CO., LTD.

Address: Building 6,1st Phase of Fu'an Industrial City, 99th Dayang Road, Fuhai Town,

Bao'an District, Shenzhen, China.

Brand Name: BESIGN
Model Number: BHF02
Additional Model Name N/A

Hardware Version: KSD3009P BHF02 校频 V3.0.4.FW

Software Version: BH68-NTC-V0.1 Serial No.: BHF02000000001

Rating: DC5V input or Built-in DC3.7V, 400mAh Li-ion battery for Earphone;

Modulation Type: GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz
Channel Number: 79

Antenna Designation Ceramic antenna with gain 2.28dBi Max (Get from the antenna specification

provided by the applicant)

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1.4 Submitted Sample: 1 pc

1.5 Test Duration

2021-07-05 to 2021-07-15

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

Terry Tang

The sample tested by

Print Name: Terry Tang

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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	2021-06-18	2022-06-17	
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17	
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17	
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17	
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17	
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17	
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2022-07-01	
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2022-07-01	
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17	
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17	
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2022-07-01	
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01	
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17	
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17	
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17	
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17	
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15	
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2021-06-18	2022-06-17	
RF Cable	Zhengdi	7m	1	2021-06-18	2022-06-17	
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17	
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17	
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17	
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05	

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 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

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

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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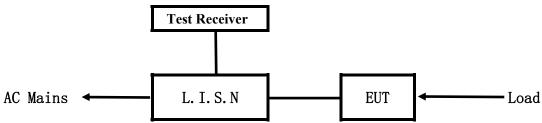
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

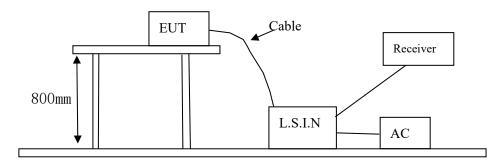


EUT: Equipment Under Test

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
	SHENZHEN SURE THING INDUSTRY		
Bluetooth Headset	AND COMMERCE DEVELOPMENT	BHF02	2A2IXBHF02
	CO., LTD.		

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB μ V)				
(MHz)	Quasi-peak Level	Average Level			
$0.15 \sim 0.50$	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:

Pass

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

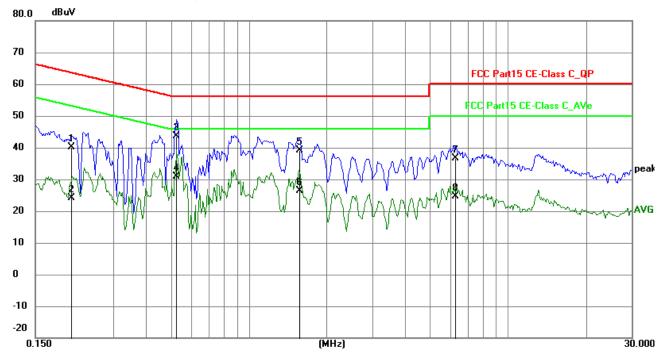
EUT Operating Environment

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

EUT set Condition: Charging and Communication by BT

Model: BHF02 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	0.2068	30.28	9.75	40.03	63.33	-23.30	QP	Р
2	0.2068	14.31	9.75	24.06	53.33	-29.27	AVG	Р
3	0.5243	33.91	9.77	43.68	56.00	-12.32	QP	Р
4	0.5243	21.03	9.77	30.80	46.00	-15.20	AVG	Р
5	1.5619	29.34	9.80	39.14	56.00	-16.86	QP	Р
6	1.5619	16.54	9.80	26.34	46.00	-19.66	AVG	Р
7	6.2561	26.59	9.98	36.57	60.00	-23.43	QP	Р
8	6.2561	14.61	9.98	24.59	50.00	-25.41	AVG	Р

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

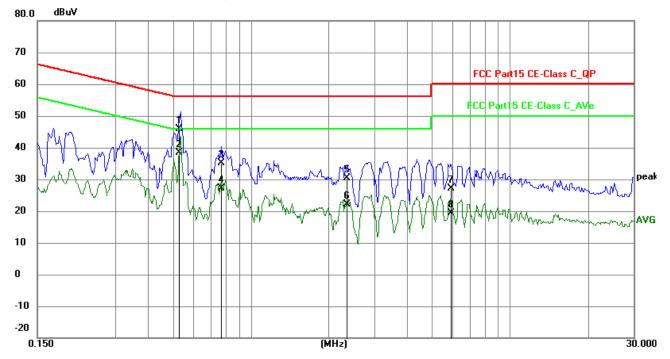
EUT Operating Environment

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

EUT set Condition: Charging and Communication by BT

Model: BHF02 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	0.5268	36.15	9.77	45.92	56.00	-10.08	QP	Р
2	0.5268	28.67	9.77	38.44	46.00	-7.56	AVG	Р
3	0.7700	25.34	9.78	35.12	56.00	-20.88	QP	Р
4	0.7700	17.24	9.78	27.02	46.00	-18.98	AVG	Р
5	2.3386	20.45	9.81	30.26	56.00	-25.74	QP	Р
6	2.3386	12.43	9.81	22.24	46.00	-23.76	AVG	Р
7	5.9218	17.26	9.97	27.23	60.00	-32.77	QP	Р
8	5.9218	9.31	9.97	19.28	50.00	-30.72	AVG	Р

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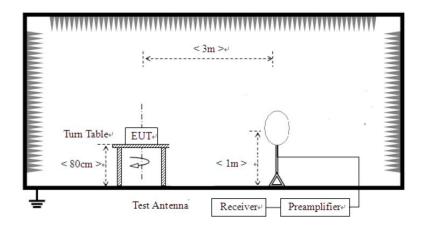


6 Radiated Emission Test

- 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 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

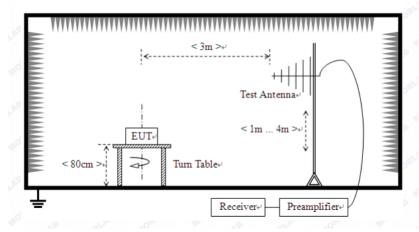
For radiated emissions from 9kHz to 30MHz



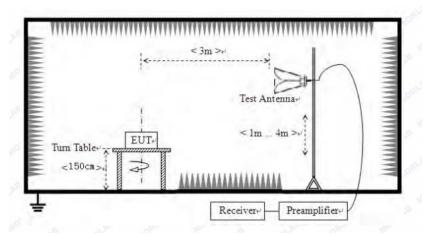
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For radiated emissions from 30MHz to1GHz



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.

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6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field Strength of Fundamental (3m)			Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	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. 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.
- 5. 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.
- 6. Battery full charged during tests.
- 7. 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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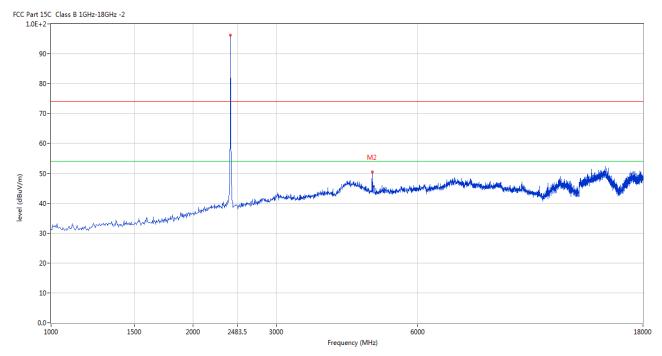


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



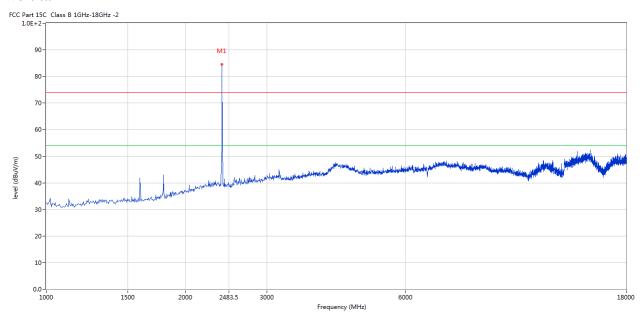
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	96.29	-3.57	114.0	-17.71	Peak	266.00	100	Horizontal	Pass
1*	2402.149	86.61	-3.57	94.0	-7.39	AV	266.00	100	Horizontal	Pass
2	4802.799	50.46	3.12	74.0	-23.54	Peak	136.00	100	Horizontal	Pass

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Vertical



N	. Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.149	84.59	-3.57	114.0	-29.41	Peak	158.00	100	Vertical	Pass

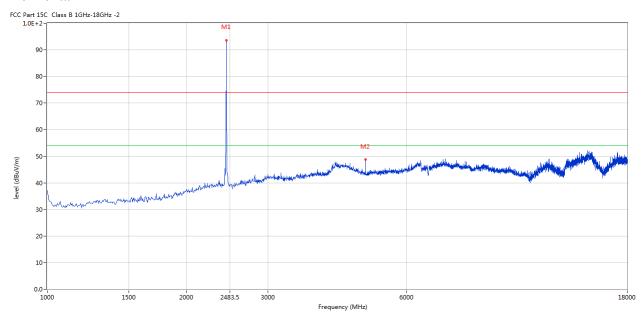
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



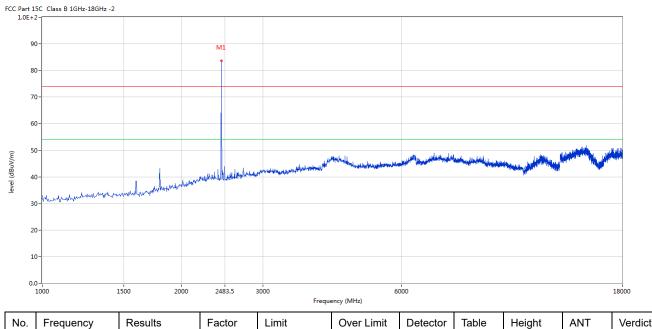
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	93.59	-3.57	114.0	-20.41	Peak	265.00	100	Horizontal	Pass
1*	2440.390	84.03	-3.57	94.0	-9.97	AV	265.00	100	Horizontal	Pass
2	4883.529	49.79	3.20	74.0	-24.21	Peak	261.00	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	2440.390	83.63	-3.57	114.0	-30.37	Peak	62.00	100	Vertical	Pass

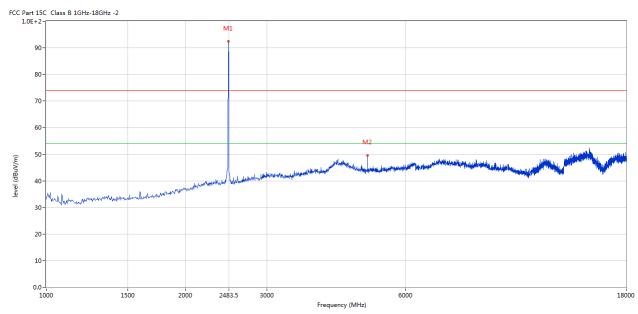
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.780	92.44	-3.57	114.0	-21.56	Peak	267.00	100	Horizontal	Pass
1*	2479.780	82.88	-3.57	94.0	-11.12	AV	267.00	100	Horizontal	Pass
2	4960.010	49.46	3.36	74.0	-24.54	Peak	53.00	100	Horizontal	Pass

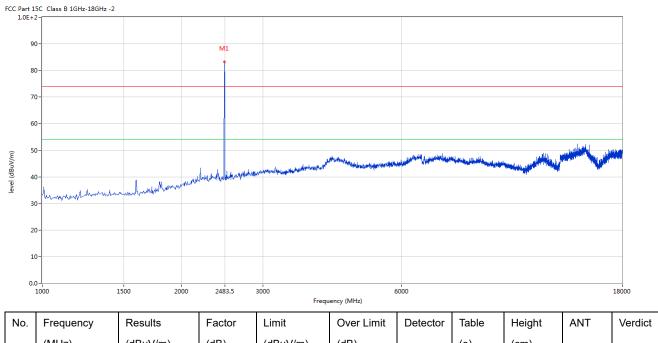
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.780	83.33	-3.57	114.0	-30.67	Peak	161.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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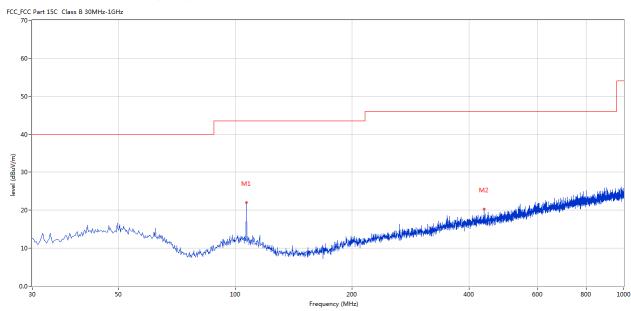


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	106.853	21.97	-13.38	43.5	-21.53	Peak	214.00	100	Horizontal	Pass
2	437.541	20.25	-8.03	46.0	-25.75	Peak	283.00	100	Horizontal	Pass

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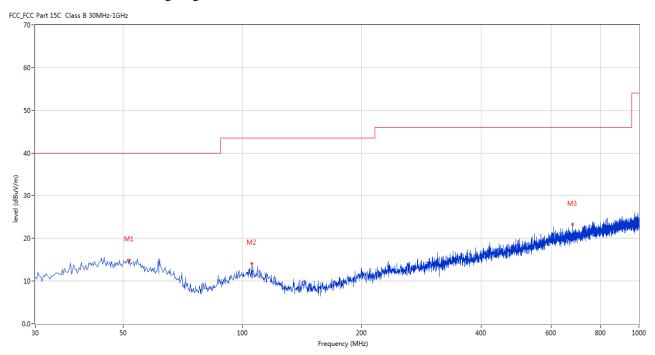


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	51.820	14.90	-11.42	40.0	-25.10	Peak	283.00	100	Vertical	Pass
2	105.641	14.15	-13.27	43.5	-29.35	Peak	343.00	100	Vertical	Pass
3	679.980	23.31	-4.46	46.0	-22.69	Peak	264.00	100	Vertical	Pass

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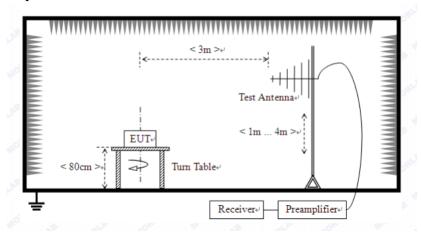


7. Band Edge

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.

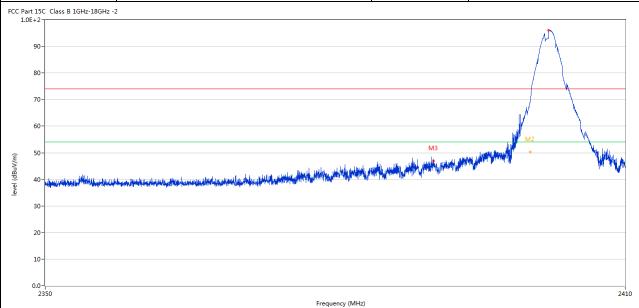
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7.6 Test Result

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

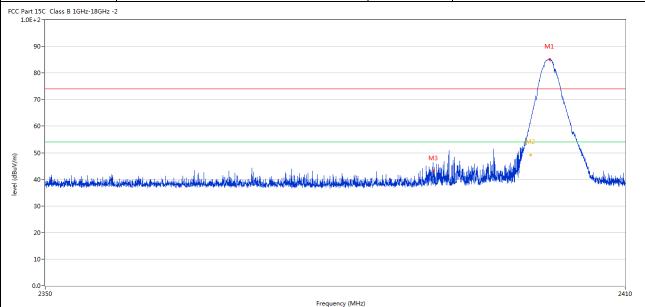


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	2400.072	67.32	-3.57	74.0	-6.68	Peak	138.00	100	Horizontal	Pass
2**	2400.072	50.31	-3.57	54.0	-3.69	AV	138.00	100	Horizontal	Pass
3	2390.025	46.93	-3.53	74.0	-27.07	Peak	270.00	100	Horizontal	Pass

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Product:	Bluetooth Headset	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

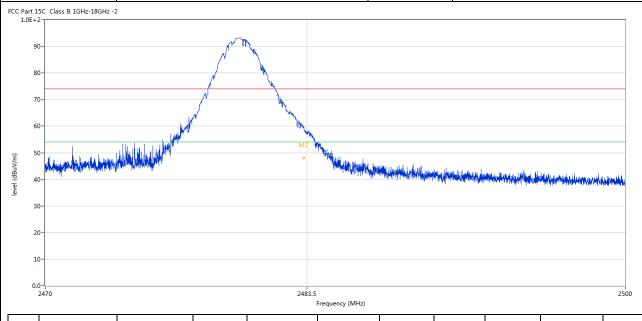


					1 7 7					
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	2400.087	61.62	-3.57	74.0	-12.38	Peak	153.00	100	Vertical	Pass
2**	2400.087	49.09	-3.57	54.0	-4.91	AV	153.00	100	Vertical	Pass
3	2390.025	43.16	-3.53	74.0	-30.84	Peak	105.00	100	Vertical	Pass

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Product:	Bluetooth Headset	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	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
2	2483.332	57.67	-3.57	74.0	-16.33	Peak	263.00	100	Horizontal	Pass
2**	2483.332	48.00	-3.57	54.0	-6.00	AV	263.00	100	Horizontal	Pass

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I	Product:		Bluetooth	Headset		Detector		Vertical			
	Mode	K	Leeping Tra	nsmitting	Tes	st Voltage		DC	3.7V		
Te	mperature		24 deg	g. C,	Н	Iumidity		56%	% RH		
Те	est Result:		Pas	ss							
C Part 1 1.0E+2	5C Class B 1GHz-18GHz 2-	-2									
90											
90	0-										
80	0-										
70	0-										
				X							
60	0-		-/								
_											
_	0-	Market Miles and Mile		1	Market Laboration of the	Haysan parket and and	. () (Make a september 1 /	والمراجعة والمراواة والمراوعة والمراوة والمراوة والمراوة والمراوة والمراوة والمراوة والمراوة والمراوة	والمساولة المراجعة والمساولة	d Laur	
50		ranidaki inkide inakabekilik			Madesia ha ha ka a ka ka a ka ka ka a ka ka a ka ka	llin politicistic de propieto de la constanta d	- Ultikal atah kana	adan, kanadil physicial	i Dalah kan dali katan int	Light Address	
50 40 30		Marketteleteleteleteleteleteleteleteletelet			Madeine de la literation de la lateration de lateration de la lateration d	Man perillering a series con	Makatakhkana	المرابعة والمرابعة والمراب	d beloek produkt de kreiste	tha than	
50 40 30		Marie Ma			Marin habita silaha atahii	htteranthalen santsch	Makalakakkan	aita qaarabiyhyiiddh	alahan di karent	LANA HAMI	
50 40 30		randiblitation to be a similar			Madain de la lace de del la constitución de la cons	akkay may kada ay a sakkay k	. Wild all all all all all all all all all a	والمراف والمتعود فالأرمان المتعادد والمتعادد والمتعاد والمتعاد والمتعادد والمتعادد والمتعادد والمتعادد والمتعادد والمتعادد وال	ala, kakundi pakunik	disk densy.	
50 40 30 20		ravidlehiteldindekokokokokokokokokokokokokokokokokokoko		2483.5		ikkop singkis kop vasibili sogl	Allekal situh keras	aitunainidiphyiselek	illa, dalapun di kedaga pel	2500	
5(4) 4(4) 3(7) 2(7) 1(0)	0		Factor		Frequency (MHz)				The state of the s	2500	
50 40 30 20		Results (dBuV/m)	Factor (dB)			Detector	Table (o)	Height (cm)	ANT		

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

- 2. 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.
- 3. 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 2.28dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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FSK Modulation									
Product:	Bluetooth	Headset		Test Mode:		Keep tran	smitting		
Mode	Keeping Tr	ansmitting		Test Voltage	;	DC3	.7V		
Temperature	24 de	g. C,		Humidity		56%	RH		
Test Result:	Pass			Detector		PK			
dB Bandwidth	775.55	5kHz							
Ref Lvl	Marker 1 [F1 ndB] 20.00 dB	RE VE			F Att	30 dB		
10 dBm	BW 775.55	110220 kHz	SW	VT 8.5 π	ıs Uı	nit	dBm	ı	
10				v ₁	[T1]	-1	.42 dBm]_	
						2.40199			
0		4		ndI	8	20	.00 dB		
			Λ	BW		5.55110	220 kHz		
-10		- 	<u> </u>	▼ _T	[T1]	-21	.35 dBm		
		M		V _{T2} ∇ _T	2 [T1]	2.40161	824 GHz .99 dBm		
-20		TX/		T2		2.40239	379 GHz		
1MAX -30	لمسر			hy a				1	
					کم				
-40	~ /					m			
-50						\			
-60									
-70									
-80									
-90									
Center 2.40	2 GHz	300 ki	Hz/			Spa	n 3 MHz		

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Product:		Bluete	ooth Head	set		Test Mode	e:	Keep tr	ansmitting	
Mode		Keepin	g Transmi	tting		Test Voltag	ge	DC3.7V		
Temperature	24 deg. C, Pass					Humidity	7	56	% RH	
Test Result:						Detector		PK		
20dB Bandwidth	781.56kHz									
<u>ka</u>	Marker 1 [T1 ndB]					W 30	kHz	RF Att	30 dB	
Ref Lvl		ndB		00 dB	VBV					
10 dBm		BW 781	.563126	25 kHz	SW	г 8.5	ms	Unit	dBm	l
10						▼:	[T1]	-	1.82 dBm	A
				1				2.44099	9699 GHz	-
0				^ - /		no		20	0.00 dB	
					$\backslash \backslash$	BV ▼-		781.56312	2625 kHz 1.57 dBm	
-10				/	y			2.44063		
			m1/	\mathcal{N}	V	V _	72 [T1		1.99 dBm	
-20			N. T. W.			1 1 2		2.44139	9980 GHz	1
1MAX						~~				1M2
-30		^				\	1			
							7			
-40	Λ.							,		
-50		W						V Cun	hw	
-60							+			
-70							+			
-80										
-90	-90									
Center 2	.441 GH	Hz		300	kHz/			Spa	an 3 MHz	

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Product:		Bluet	ooth Head	set		T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage		DC3.7V		
Temperature	24 deg. C, Pass]	Humidity		56%	% RH		
Test Result:						Detector]	PK		
20dB Bandwidth		74	745.49kHz								
₽		Marker	1 [T1 n	ndB]	R	.BW	30 kH	Iz Rl	F Att	30 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 kH	Iz			
10 dBm		BW 745	5.490981	.96 kHz	S	WT	8.5 ms	s Uı	nit	dBm	ı
10							v ₁	[T1]	-2	.53 dBm	A
									2.47999	699 GHz	A
0				_ 7			ndB		20	.00 dB	
				\sim	Λ		BW	74	5.49098		
-10					1 V	`	∇_{T1}	[T1]	-22 2.47961	.39 dBm	
			,	\mathcal{N}		4	, ∇ _T	[T1]	-2.4/961 -22	824 GHz	
-20							T2 -1		2.48036	373 GHz	
1MAX							They				1M
-30			<u> </u>				\overline{M}				
		$\sqrt{}$,				\)m			
-40								4			
	\wedge	\\\^\'							M		
-50	41,7/1	4/						\ \\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	•	•						V	W	MMM	
-60									•	S and May	
-70											
-80											
-90											
Center 2	.48 GH	z		300	kHz/				Spa	ın 3 MHz	

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Product:		Bluet	ooth Head	set		Test Mode	:	Keep tr	ansmitting	
Mode		Keepin	g Transmi	tting		Test Voltag	e	DC3.7V		
Temperature	24 deg. C, Pass				Humidity		569	% RH		
Test Result:					Detector		PK			
0dB Bandwidth		1.	.208MHz							
Ŕ	Marker 1 [T1 ndB]					30]	cHz R	F Att	30 dB	
Ref Lvl		ndB		00 dB	VBV					
10 dBm		BW I	1.208416	83 MHz	SWI	r 8.5 r	ns U	nit	dBm	1
10						v ₁	[T1]	-:	1.38 dBm	A
				1				2.40199	699 GHz	
0				Λ /		nd	В	20	0.00 dB	
				$ \ \ \ $	\ .	BW ∇_{T}		1.20841	1683 MHz 1.34 dBm	
-10			MM	<i>-</i> / <i>/</i>	~\\	~ my		2.4013		
		TT.				__\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 [T1]	-21	1.06 dBm	
-20		Y	_				4	2.40258	617 GHz	1M2
IMAX							7			IMZ
-30										
-40							 	1		
-50 MA	. //	\sim					M	m		
								Jum	Mur"	
-60										
-70										
-80										
-90	400 ~	·		200	1-11- /				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Center 2	.402 G	12		300	kHz/			Spa	an 3 MHz	

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Product:	Blu	etooth Headse	et	T	est Mode:		Keep transmitting		
Mode	Keep	ing Transmitti	ing	Te	est Voltage	DC3.7V			
Temperature	24 deg. C, Pass			I	Humidity	56% RH			
Test Result:					Detector		PK		
20dB Bandwidth		1.208MHz							
Ŕ	Marke	r 1 [T1 nd	lB]	RBW	30 kHz	RF	` Att	30 dB	
Ref Lvl	ndB		0 dB	VBW	100 kHz				
10 dBm	BW	1.2084168	3 MHz	SWT	8.5 ms	Ur	nit	dBm	1
					▼ 1 [7	[1]	-1	.83 dBm	A
							2.44099	699 GHz	
0			^ /		ndB		20	.00 dB	
					BW VT1 1	T11	1.20841	683 MHz	
-10		MM	7 7 7	\mathcal{M}	mail		2.44037		
					$A^{I_{\overline{2}}}$	T1]	-21	.57 dBm	
-20		7			*		2.44158	617 GHz	1M2
		'			4				LMZ
-30									
-40	^						<i>Λ</i> Λ		
-50	\					U	V VM	Mayor	
-60									
-70									
-80									
-90 Center 2.	441 077-		300 kHz	/			G	n 3 MHz	

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Product:		Bluet	ooth Head	set		T	est Mode:		Keep transmitting		
Mode		Keepin	g Transmi	tting		Т	est Voltage		DC3.7V		
Temperature		2	4 deg. C,]	Humidity		56% RH		
Test Result:	Pass						Detector		PK		
0dB Bandwidth		1.202MHz									
Ŕ		Marker	1 [T1 ndB]			BW	30 kH	Iz RI	7 Att	30 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 kH				
10 dBm		BW 1	1.202404	81 MHz	S	WT	8.5 ms	. Ur	nit	dBm	1
10							v ₁	[T1]	-2	.54 dBm	A
									2.47999	699 GHz	Α
0				. 7	ĺ		ndB		20	.00 dB	
				$\land \land \land$	\		BW ▼⊤1		1.20240	481 MHz	
-10			^	-1		M	M	[T1]	2.47938	.65 dBm 377 GHz	
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~	\	<i>ا</i> سم	A A	[T1]	-22	.49 dBm	
-20		7	الم				15		2.48058	617 GHz	
1MAX								٦			1M2
-30											
-40	^ /	\sim						1	М		
-50									wh	Muny	
-60										- viv	
-70											
-80											
-90	.48 GHz			300						n 3 MHz	

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8QPSK Modul	ation										
Product:		Bluet	ooth Head	set		Test Mode	:	Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting		Test Voltage	e	DC	23.7V		
Temperature		2	4 deg. C,			Humidity		56%			
Test Result:	Pass				Detector		I				
20dB Bandwidth		1.214MHz									
(R)		Marker	1 [T1 n	ndB]	RB	W 30 k	Hz R	F Att	30 dB		
Ref Lvl		ndB		00 dB	VB						
10 dBm		BW 3	1.214428	886 MHz	SW'	Г 8.5 n	ns U	nit	dBm		
						v ₁	[T1]	-1	.38 dBm	Α	
0						31		2.40200			
				$\land \land$		ndl BW	3	1.21442	.00 dB 886 MHz		
-10						ightharpoons	1 [T1]	-21	.38 dBm		
				~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	M	m m		2.40137	776 GHz		
20		T;	$\sqrt{}$			L D	2 [T1] 2	-21	.72 dBm		
-20		<i></i>				· ·	ή,	2.40259	218 GHz	1MA	
-30											
-40	. ^ /	M									
-50							7	M	W W V		
-60									·		
-70											
-80											
-90 Center 2	.402 GI	Hz		300	kHz/			Spa	ın 3 MHz		
Date: 14	.JUL.2	021 17	:47:14								

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8QPSK Modula	ation										
Product:		Bluet	ooth Head	set		Test Mod	le:	Keep tr	ansmitting		
Mode		Keepin	g Transmi	tting		Test Volta	ige	DO	C3.7V		
Temperature		2	4 deg. C,			Humidit	у	56	56% RH		
Test Result:	Pass				Detecto	r		PK			
20dB Bandwidth		1.	.196MHz								
Ŕ		Marker	1 [T1 n	ndB]	RB	W 30	kHz	RF Att	30 dB		
Ref Lvl		ndB		00 dB	VB		kHz				
10 dBm		BW 1	L.196392	279 MHz	SW	T 8.5	ms	Unit	dBm		
						•	1 [T1]	_	1.83 dBm	Α	
				1				2.4409	9699 GHz		
0				^ /		n		2	0.00 dB		
				$ \ \ \ \ \ \ $	\	B ∇		1.1963	9279 MHz 1.94 dBm		
-10			MM	7 7	7	$\mathcal{M}_{\mathcal{M}_{\mathcal{A}}}$	1 1 1 1 1 1	2.4403			
					·	4	<u>7</u> 2 [T1]				
-20		7	1				V.	2.4415	8617 GHz	1MA	
-30							7			IMA	
- 40	Л	M						1.1			
-50	WV							W.	WWW.		
-60											
-70											
-80											
-90 Center 2.	.441 GI	Hz		300	kHz/			Spa	an 3 MHz		
Date: 14	.JUL.2	021 17	:47:50								

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8QPSK Modul	lation										
Product:		Bluetooth Headset					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			1.196MHz								
	Marker 1 [T1 ndB]				R	ЗW	30 k	Hz R	F Att	30 dB	
Ref Lvl		ndB		00 dB		B₩	100 k				
10 dBm		BW 1	L.196392	279 MHz	SI	ИT	8.5 m	s Ui	nit	dBm	
							v ₁	[T1]	-2	.53 dBm	A
0				1					2.47999	699 GHz	
				^ /			ndF	8	20	.00 dB	
				$ \ \ \ \ $	\setminus		BW ∇ _T 1	[T1]	1.19639	279 MHz	
-10			11 M		my.	M	My -		2.47938	978 GHz	
				W		~	VA T	[T1]	-22	.02 dBm	
-20		7	<u>~′</u>				V	1	2.48058	617 GHz	1MA
-30								4			IMA
-40											
\ <u></u>	٨										
-50	W J							*	A M	Month	
-60											
-70											
-80											
-90 Center 2	48 011	7		300	노 <mark>ਧ</mark> ~ /				Cn.o.	n 3 MHz	
	4.JUL.2		:48:13	300	121171/				Бра	II J MHZ	

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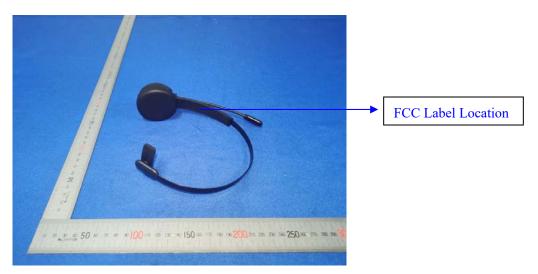


10.0 FCC ID Label

FCC ID: 2A2IXBHF02

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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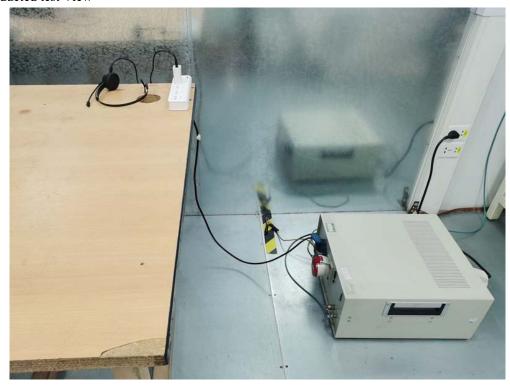
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11.0 Photo of testing

11.1 Conducted test View--



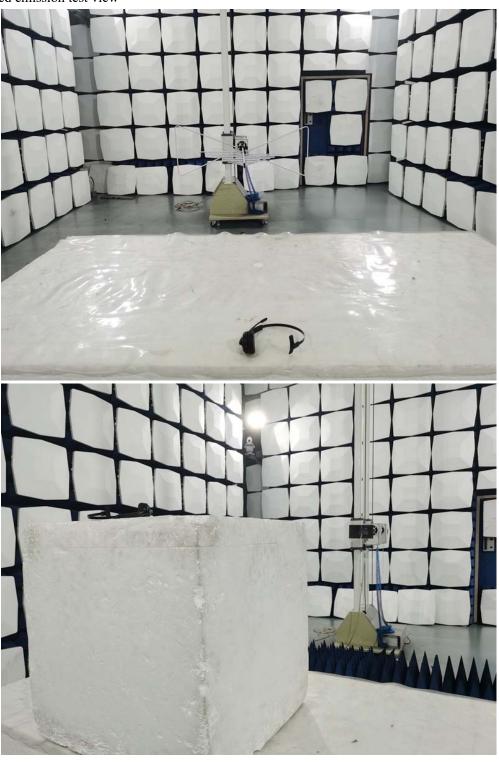
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Radiated emission test view



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



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Photographs – EUT

Outside View



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Outside View



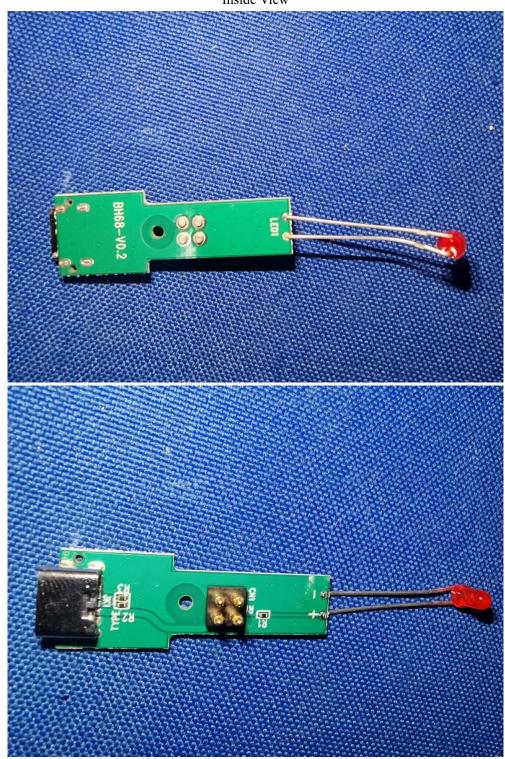
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Inside View



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Outside View - Earphone



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Outside View - Earphone



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Inside View - Earphone



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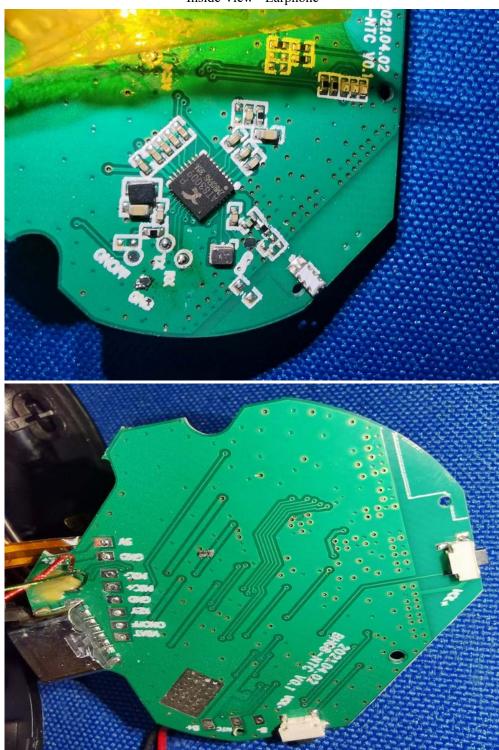
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Inside View - Earphone



-- End of the report--

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