

Report No.: TW2502017-01E

Applicant: Electronic World LLC

Product: Wireless headset

Model No.: Electro Sound Core

Trademark: Electro

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

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

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tang

----

Manager

Dated: February 19, 2025

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:**

# 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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Date: 2025-02-19



# 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: Electronic World LLC

Address: 575 Julie Rivers Drive, Sugar Land, TX, United States, 77478

#### 1.3 Description of EUT

Product: Wireless headset

Manufacturer: ShenZhen Glory Star Industrial Co., Ltd

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

Shenzhen, China

Trademark: Electro

Model Number: Electro Sound Core

Additional Model Name N/A

Rating: Input: 5Vdc

Battery: DC3.7V, 600mAh Li-ion battery

Serial No.: GS-212412240002

Hardware Version: V1.0 Software Version: 1.6.0

Operation Frequency: 2402-2480MHz Modulation Type: GFSK, JI/4DQPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain -0.58dBi 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

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 EUT has been	ı tested accordin	g to the following	specifications:
		A	, 50000

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

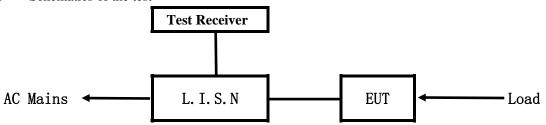
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#### **5.0** Power Line Conducted Emission Test

# 5.1 Schematics of the test

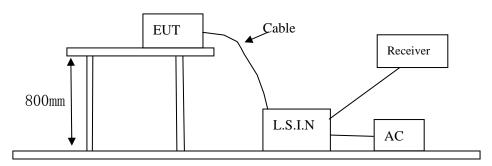


**EUT: Equipment Under Test** 

#### 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 headset	ShenZhen Glory Star	Electro Sound Core	2BB37-ELLC-SC1
	Industrial Co., Ltd	Electro Soulid Cole	ZDD3/-ELLC-SCI

# B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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# C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A;
			Output: DC5V, 3A; DC9V, 3A; DC12V,
			3A; DC15V, 3A; DC20V, 2.25A;

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)

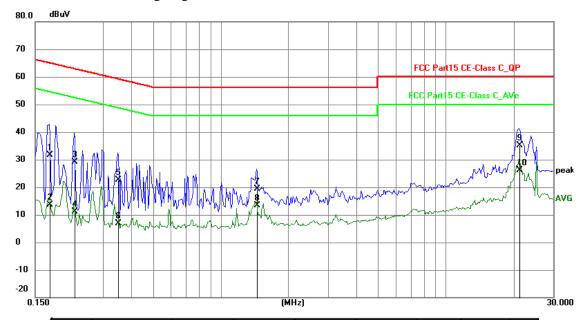
# **EUT Operating Environment**

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

**EUT set Condition: Charging and 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	0.1734	21.40	10.33	31.73	64.80	-33.07	QP	Р
2	0.1734	3.35	10.33	13.68	54.80	-41.12	AVG	Р
3	0.2241	18.85	10.33	29.18	62.67	-33.49	QP	Р
4	0.2241	0.74	10.33	11.07	52.67	-41.60	AVG	Р
5	0.3489	12.39	10.36	22.75	58.99	-36.24	QP	Р
6	0.3489	-3.44	10.36	6.92	48.99	-42.07	AVG	Р
7	1.4448	8.43	10.86	19.29	56.00	-36.71	QP	Р
8	1.4448	2.45	10.86	13.31	46.00	-32.69	AVG	Р
9	21.1623	18.87	16.19	35.06	60.00	-24.94	QP	Р
10	21.1623	10.05	16.19	26.24	50.00	-23.76	AVG	Р

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

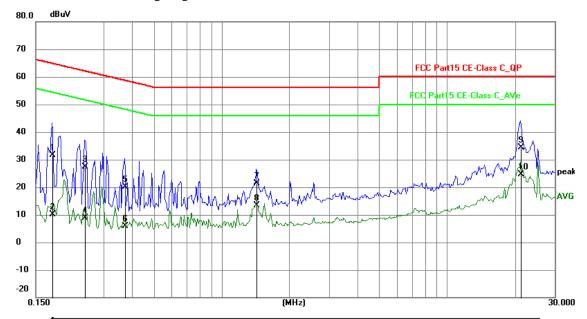
#### **EUT Operating Environment**

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

EUT set Condition: Charging and Communication by BT

**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	0.1773	21.18	10.33	31.51	64.61	-33.10	QP	Р
2	0.1773	-0.28	10.33	10.05	54.61	-44.56	AVG	Р
3	0.2475	17.12	10.33	27.45	61.84	-34.39	QP	Р
4	0.2475	-1.34	10.33	8.99	51.84	-42.85	AVG	Р
5	0.3723	9.87	10.37	20.24	58.45	-38.21	QP	Р
6	0.3723	-4.47	10.37	5.90	48.45	-42.55	AVG	Р
7	1.4292	10.65	10.85	21.50	56.00	-34.50	QP	Р
8	1.4292	2.57	10.85	13.42	46.00	-32.58	AVG	Р
9	21.1662	18.09	16.18	34.27	60.00	-25.73	QP	Р
10	21.1662	8.48	16.18	24.66	50.00	-25.34	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:

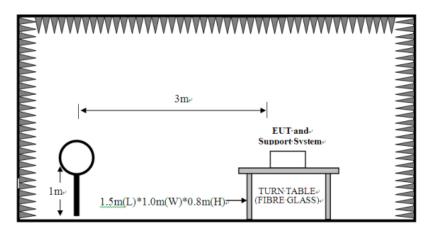
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

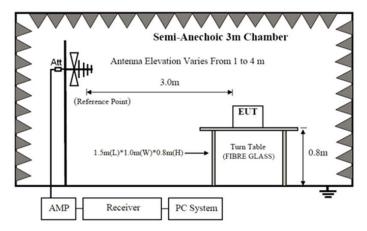


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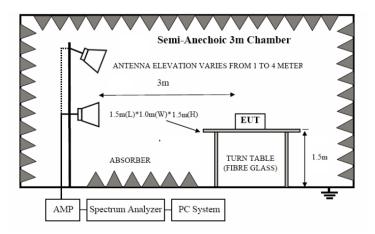
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For radiated emissions from 30MHz to1GHz



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 $\mu$ 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.
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 two modulation modes of GFSK, Pi/4D-QPSK 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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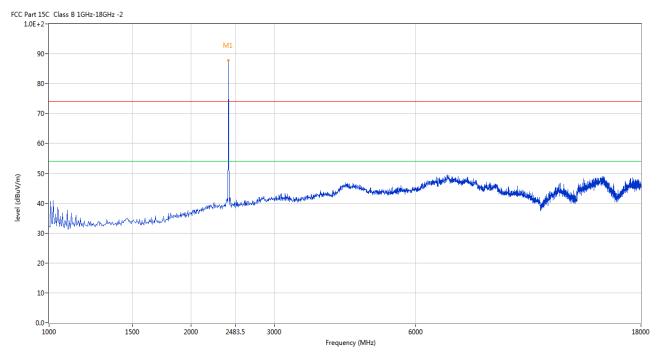


#### 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



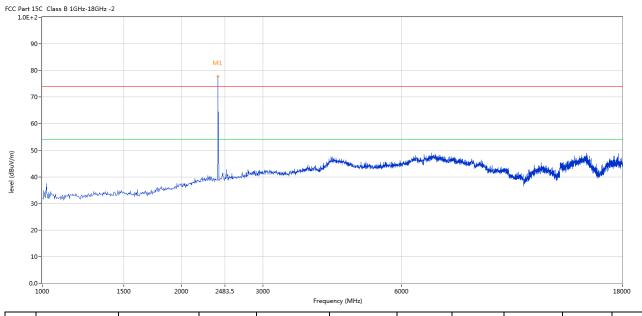
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	87.82	-3.57	114.0	-26.18	Peak	259.00	100	Horizontal	Pass

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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	77.79	-3.57	114.0	-36.21	Peak	204.00	100	Vertical	Pass

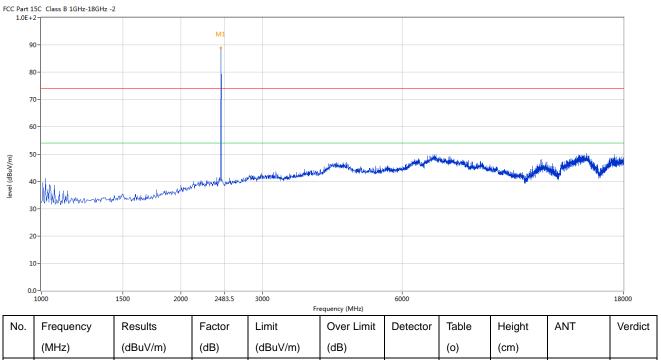
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



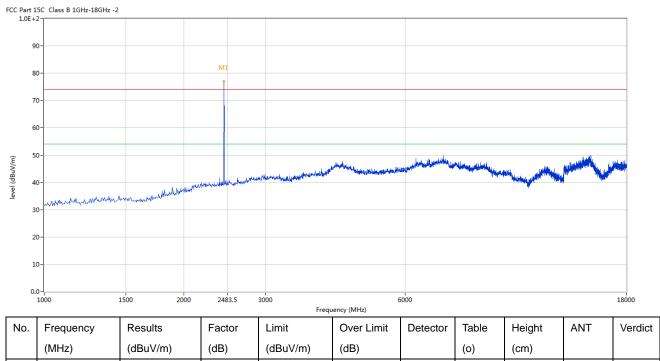
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	88.97	-3.57	114.0	-25.03	Peak	159.00	100	Horizontal	Pass

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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	77.11	-3.57	114.0	-36.89	Peak	67.00	100	Vertical	Pass

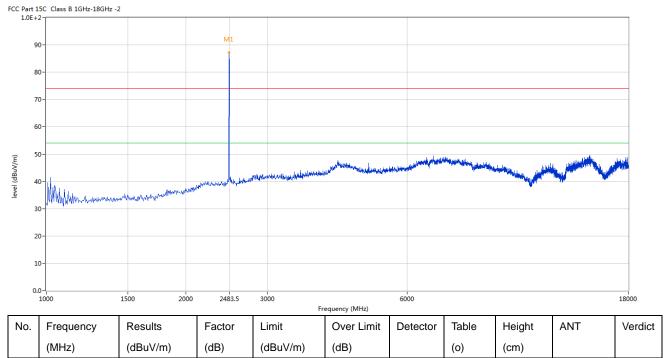
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



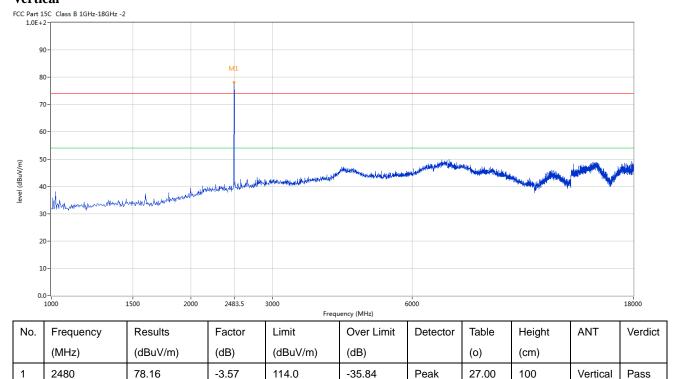
	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	2480	87.11	-3.57	114.0	-26.89	Peak	219.00	100	Horizontal	Pass

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#### Vertical



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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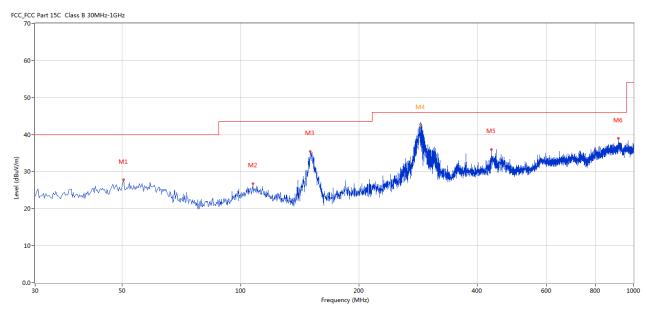


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	50.365	27.76	-5.13	40.0	12.24	Peak	292.00	100	Horizontal	Pass
2	107.581	26.81	-6.04	43.5	16.69	Peak	305.00	100	Horizontal	Pass
3	150.250	35.45	-10.07	43.5	8.05	Peak	7.00	100	Horizontal	Pass
4*	287.154	42.50	-4.51	46.0	3.50	QP	103.00	101	Horizontal	Pass
5	435.359	36.04	-0.93	46.0	9.96	Peak	162.00	100	Horizontal	Pass
6	914.904	38.96	5.41	46.0	7.04	Peak	2.00	100	Horizontal	Pass

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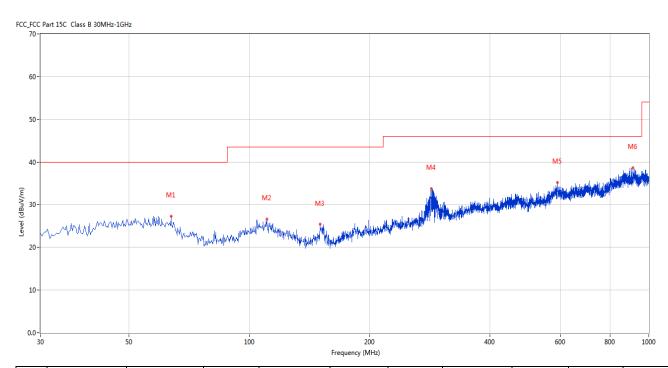


# Radiated Emission In Vertical (30MHz----1000MHz)

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	63.699	27.33	-5.75	40.0	12.67	Peak	50.00	100	Vertical	Pass
2	110.732	26.57	-5.96	43.5	16.93	Peak	174.00	100	Vertical	Pass
3	150.250	25.38	-10.07	43.5	18.12	Peak	75.00	100	Vertical	Pass
4	285.774	33.78	-4.53	46.0	12.22	Peak	351.00	100	Vertical	Pass
5	591.005	35.14	1.77	46.0	10.86	Peak	164.00	100	Vertical	Pass
6	913.207	38.65	5.30	46.0	7.35	Peak	174.00	100	Vertical	Pass

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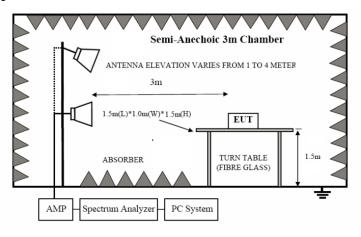


#### 7. Band Edge

#### 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.

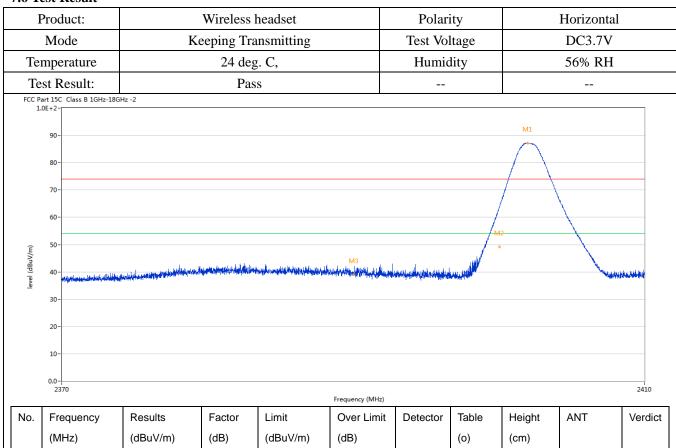
The report refers only to the sample tested and does not apply to the bulk.

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#### 7.6 Test Result



Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2401.952	87.17	-3.57	74.0	13.17	Peak	235.00	100	Horizontal	N/A
2400.000	63.82	-3.57	74.0	-10.18	Peak	222.22	100	Horizontal	Pass
2400.000	49.14	-3.57	54.0	-4.86	AV	222.22	100	Horizontal	Pass
2390.000	39.11	-3.53	74.0	-34.89	Peak	173.00	100	Horizontal	Pass
-	(MHz) 2401.952 2400.000 2400.000	(MHz) (dBuV/m) 2401.952 87.17 2400.000 63.82 2400.000 49.14	(MHz) (dBuV/m) (dB) 2401.952 87.17 -3.57 2400.000 63.82 -3.57 2400.000 49.14 -3.57	(MHz)     (dBuV/m)     (dB)     (dBuV/m)       2401.952     87.17     -3.57     74.0       2400.000     63.82     -3.57     74.0       2400.000     49.14     -3.57     54.0	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       2401.952     87.17     -3.57     74.0     13.17       2400.000     63.82     -3.57     74.0     -10.18       2400.000     49.14     -3.57     54.0     -4.86	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       2401.952     87.17     -3.57     74.0     13.17     Peak       2400.000     63.82     -3.57     74.0     -10.18     Peak       2400.000     49.14     -3.57     54.0     -4.86     AV	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       2401.952     87.17     -3.57     74.0     13.17     Peak     235.00       2400.000     63.82     -3.57     74.0     -10.18     Peak     222.22       2400.000     49.14     -3.57     54.0     -4.86     AV     222.22	(MHz)     (dBuV/m)     (dB)     (dB)     (o)     (cm)       2401.952     87.17     -3.57     74.0     13.17     Peak     235.00     100       2400.000     63.82     -3.57     74.0     -10.18     Peak     222.22     100       2400.000     49.14     -3.57     54.0     -4.86     AV     222.22     100	(MHz)         (dBuV/m)         (dB)         (dBuV/m)         (dB)         (o)         (cm)           2401.952         87.17         -3.57         74.0         13.17         Peak         235.00         100         Horizontal           2400.000         63.82         -3.57         74.0         -10.18         Peak         222.22         100         Horizontal           2400.000         49.14         -3.57         54.0         -4.86         AV         222.22         100         Horizontal

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]	Product:	Wireless headset				Detector		Vertical		
	Mode	de Keeping Transmitting				Test Voltage		DC3.7V		
Te	mperature		24 deg. C,			Humid	ity		56% RH	
	est Result:		Pa	Pass						
FCC Part	+2- H2-	Hz -2								
	90-									
	80-							M1		
	80-									
	70-							$/ \setminus$		
	60-							$\leftarrow$		
						M4	/		<del>\</del>	
						. n. I. – 1.it. I	A = A + A + A		<b>\</b>	
3uV/m)	50-				la l	اللالفال عرطهانا	/M2		\ \ \	
vel (dBuV/m)		المالية المرام ا	العبرية والمتعادلة والانتفاقية		M3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		M2		A STATE OF THE PARTY	thirt is a state of the
level (dBuV/m)		hilipakan ka madada dhilipah ba	وميرية والمصادرة والسنافل ور		3		M2		M. Maringelle	to Levision No.
level (dBuV/m)	40-	المالية المرابط والمرابط المرابط المرا	وميدا براله يعارض والدنا فالمارس		Ma July July July July July July July July		M2		Mary Market	Hall Range (see No.
level (dBuV/m)	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	المؤلفة والمتمار المتمار والمتمار المتمار المتمار المتمار المتمار والمتمار المتمار الم	addinate out to adjust ye		h 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		M2		Maria dela	and an all and a second
level (dBuV/m)	40-	(Alphonesting grade and albeits, New	ومرياء والمصرف بالمدوس تاسالهم				M2		And the sample for	tto ( navigle south p
	40- 30- 20-	k if where there is not an about the later, have	and the section of the section of				M2			
	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	( the week or year of whether have	ومرياء والمعمل المتواصل عالمار		Frequency (MHz)		M2			2410
	40- 30- 20-	Results	Factor	Limit		Detector	Table	Height	ANT	
	40- 30- 20- 10- 0.0- 2370		and the second of the second of the second		Frequency (MHz)	Detector	Table (o)	Height (cm)		2410
	30- 20- 10- 2370	Results	Factor	Limit	Frequency (MHz)  Over Limit	Detector Peak		_		2410
No.	30- 20- 10- 2370 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)		(o)	(cm)	ANT	2410 Verdict
No.	40- 30- 20- 10- 2370 Frequency (MHz) 2402.142	Results (dBuV/m) 77.56	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz)  Over Limit (dB)  3.56	Peak	(o) 204.00	(cm)	ANT Vertical	2410 Verdict
No. 1 2	40- 30- 20- 10- 0.0- 2370  Frequency (MHz) 2402.142 2400.000	Results (dBuV/m) 77.56 54.62	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0	Frequency (MHz)  Over Limit (dB)  3.56  -19.38	Peak Peak	(o) 204.00 200.89	(cm) 100 100	ANT  Vertical  Vertical	verdict N/A Pass

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]	Product: Wireless headset			ss headset		Polarity		Horizontal		al	
	Mode		Keeping	Transmitting	5	Test Voltage		DC3.7V		I	
Te	mperature		24 0	deg. C,		Humidity		56% RF	ŀ		
Te	est Result:		F	Pass							
2 Part 1 1.0E+	15C Class B 1GHz-18GH	lz -2									
9	90-		M1								
8	80-										
7	70-										
6	60-		/	M. M	2						
. 5	50-				<b>\</b>						
. 5		a				والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج	and the second second	والمراجع والمراجع المراجع المر	marak 1,445, listo, par Jan, Links se Amerika	of adjustance	
	10 - <u>edis kirds sont and all his bloke</u> ;	والمستراع والمستراء والمست				hannelisele de troj de de t	ania, advetti auketania jajan	is I il to live of the training of the training		il-litery)	
. 4		المستمام والمسترود والمستر	/			hanne di pirate di santa di sala di sa	عادر عال ما الإيد أو عاد ما الإيداء الواد الدينة والا	na kadipaka menanggan pada sapah menanggan pada sapah menanggan pada sapah menanggan pada sapah menanggan pada	andrody distribution to the second	appendix property and the second	
. 4	10 - who had a supplied the house	thanks or the same and the same	/			the state of the s	no the parties of the continues and the continue		and national and the second and the second	after high street	
3	10-ulletelene en let de le letelene	think production that the state of the last of the state	/			taggadistelli. Astrodugladi	ana, distribution di production di productio	Abdyshod Market Philips	tradiçatir nitrasıldır. İstiniyle ile ildə ildə ildə ildə ildə ildə ildə ildə	appendix for the	
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. 4 3 2	10 - white down a stant all be delay	Andrewskie and Andrew		248	And the second	nggadistolkutun terdagkan	and white the second property of the second p	A Supplement of the supplement	geological graph and design by the substitute of	2500	
4 3 2 1	10	Results	Factor		3.5	Detector	Table	Height	ANT	1	
4 3 2 1	0	page digital	Factor (dB)	248	3.5 Frequency (MHz)					ı	
. 4 3 2	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-	Results		248 Limit	3.5 Frequency (MHz)		Table	Height		2500 Verdid	

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]	Product:		Wireless	headset	Detector			Vertical		
	Mode Keeping T			ng Transmitting Test Vol				DC3.7V		
Te	emperature		24 de	g. C,		Humic	lity	56% RH		
Te	Test Result: Pass			SS						
	rt 15C Class B 1GHz-18GH E+2-	z -2			<b>'</b>			1		
	90-									
	80-		M	11						
	80-									
	70-									
				\ \						
	60-		- 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
Œ	50-			M <sub>2</sub> M <sub>2</sub>						
(dBuV/m)	50-	t II ama i da i i i i a a a dhisis i i i i i i a a a dhisis i i i i i a a a dhisis i i i i i i a a a dhisis i i i i i i a a a dhisis i i i i i a a a dhisis i i i i i a a a dhisis i i a a a a dhisis i i a a a a dhisis i i a a a a dhisis i a a a a a a a a a a a a a a a a a		M2	whatehouse deceding	Heiler kan did masal kin di		والمنافر والأفري والوارسية	p., w. 1 day 1, 100	Jandon, ak
level (dBuV/m)	50- 40-	معلوا والمناوات والماران والمناوات والمناوات		M2	was what only the second and a second	Lington has said moral to a single	and the state of t	andronidelle gradition disku	al transitivity by the work of the	
level (dBuV/m)	50-	معلقة أعليه وبالباء الالماء المعلقة المعلقة		M2	المراجعة والمراجعة والمراج	Nahada ada da	rayahiyinda dayan kasa iya n	مسابسوا انهجفاليخطأ يد	description of the second	
level (dBuV/m)	50- 40-	المعلمة العالمة العاملة		M2	and the state of t	National resident	nad histologia karian	andinishlik yedilisedd s	al territories de describente de la territories	al religionity.
level (dBuV/m)	50- 40-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	ويستردن والمتراث والم		M2	the state of the s	Nahahamat van Naham	new day de de la conserva en conserva	andrometik godelindelik u	dissional de la contra del la contra del la contra del la contra de  la contra de la contra del la con	, the second second second
	30- 20- 0.0-	المعاولية المعاونية والمعاونية والمعاونية والمعاونية والمعاونية والمعاونية والمعاونية والمعاونية والمعاونية وا		M2		Nakaha antara Mari	ne all hit of the standards of	nomenti kapatin daliku	strong by the second state of	
	30- 20-	somball करोड़ के कि ते की नहीं प्रस्त की से किस्से के किस की की किस की किस की किस की की की की की की की की की क किस की		2483.		North hand was bloom	na pir kirinda kanan da kanan	and madel h gard live of the	densitive should be made the	
	30- 20- 0.0-	Results	Factor		Frequency (MHz)	Detector	Table	Height	ANT	2500
	30- 20- 10- 2470	and the second of the second o	Factor (dB)		Frequency (MHz)					2500
	30- 20- 2470	Results		Limit	Frequency (MHz)  Over Limit [ (dB)		Table	Height		2500 Verdid

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

2. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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# 8.0 Antenna Requirement

# **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain -0.58dBi 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**

Product: Wireless headset			Test Mode:		Keep transmitting		itting		
Mode	Keeping Transmitting				Test Vo	oltage		DC3.7V	,
Temperature	emperature 24 deg. C,		C,		Humi	dity		56% RH	[
Test Result:		Pass			Dete	ctor		PK	
OdB Bandwidth		864kH	łz						
Ref 10 di	Bm	*Att 2	0 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		2.401856	.61 dBm	
0						ndB [ BW 86	54.000000 1 [T1 nd	B.]	A
<b>PK AXH</b> 10						Temp	2.401568 2 [Tl nd	8]	
20		m1 <b>/</b>	$\mathcal{N}$		TO		-26 2.402432	.68 dBm	
30		Ti			V <sub>T2</sub>				
-40						7			
50	~~~~~ <u>~</u>					<u></u>	<u></u>		3DB
-60 <u>-60</u>	· • • • • • • • • • • • • • • • • • • •							www	
-70									
-80									
-90									
Center 2.	402 GHz		300	kHz/			Spa	an 3 MHz	

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

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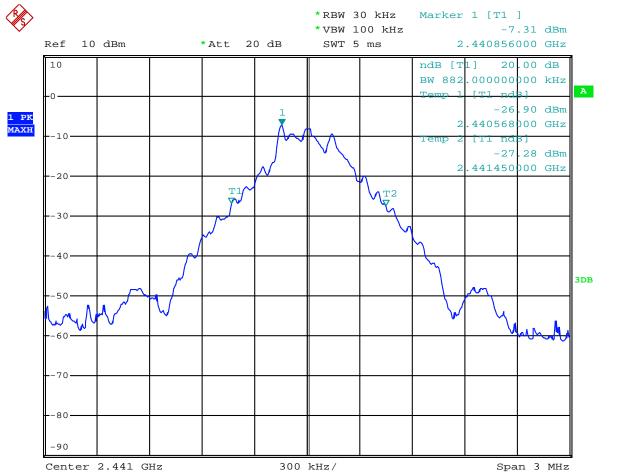
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GFSK			
Product:	Wireless headset	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	882kHz		1



Date: 17.FEB.2025 10:49:28

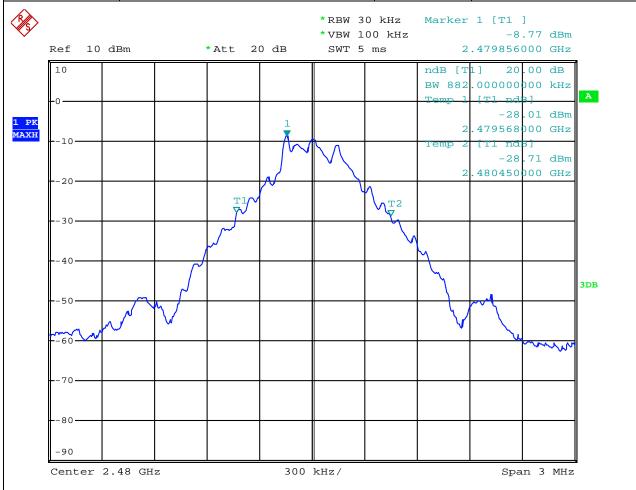
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GFSK			
Product:	Wireless headset	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	882kHz		



Date: 17.FEB.2025 10:55:26

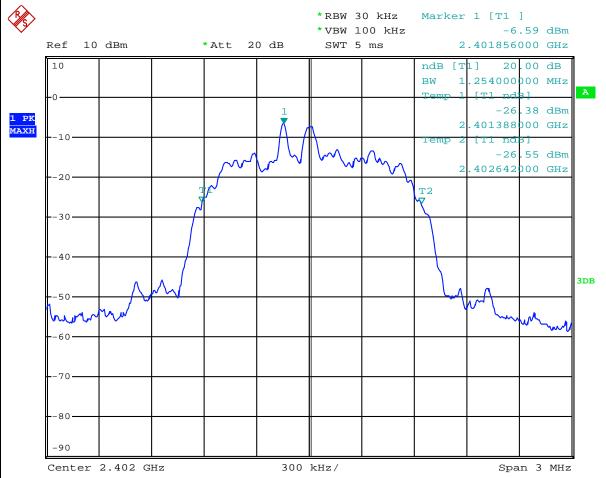
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Л/4DQPSK			
Product:	Wireless headset	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.254MHz		



Date: 17.FEB.2025 10:58:44

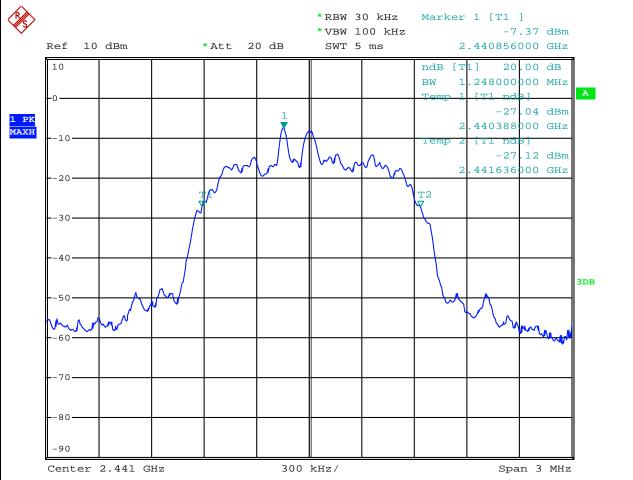
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Л/4DQPSK			
Product:	Wireless headset	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.248MHz		



Date: 17.FEB.2025 10:56:44

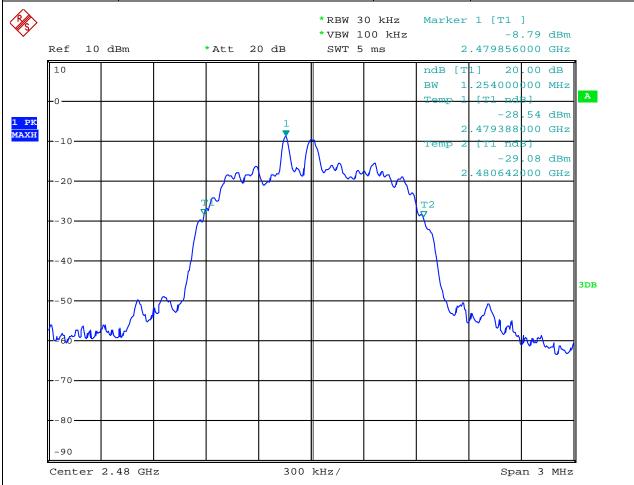
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Л/4DQPSK			
Product:	Wireless headset	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.254MHz		



Date: 17.FEB.2025 10:56:07

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#### 10.0 FCC ID Label

#### FCC ID: 2BB37-ELLC-SC1

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



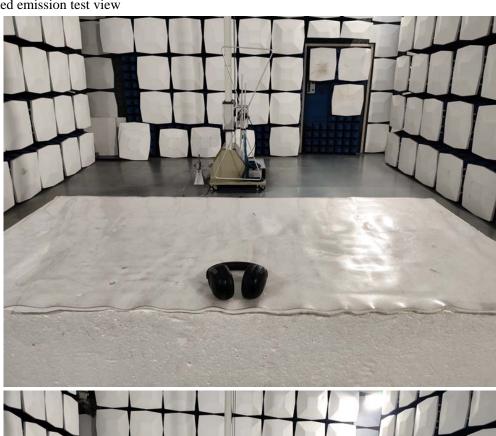
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## Radiated emission test view





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



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Inside View





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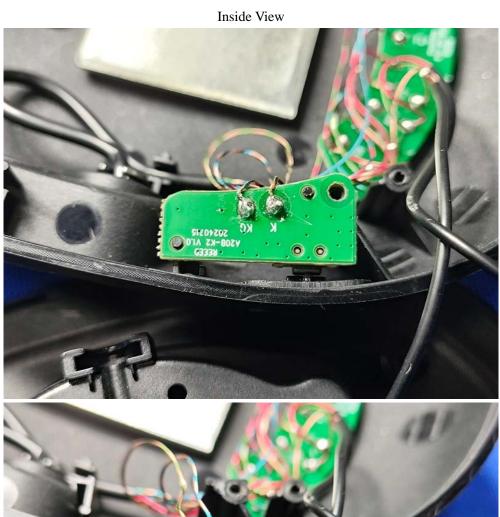
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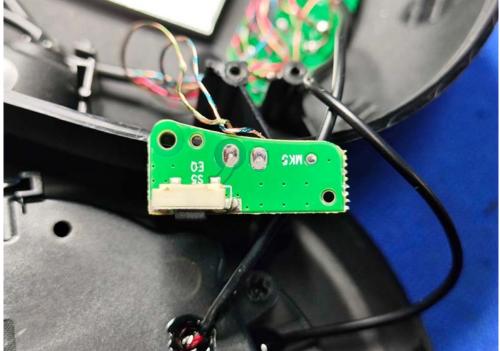
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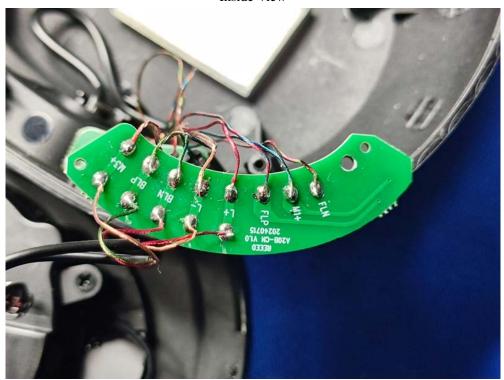
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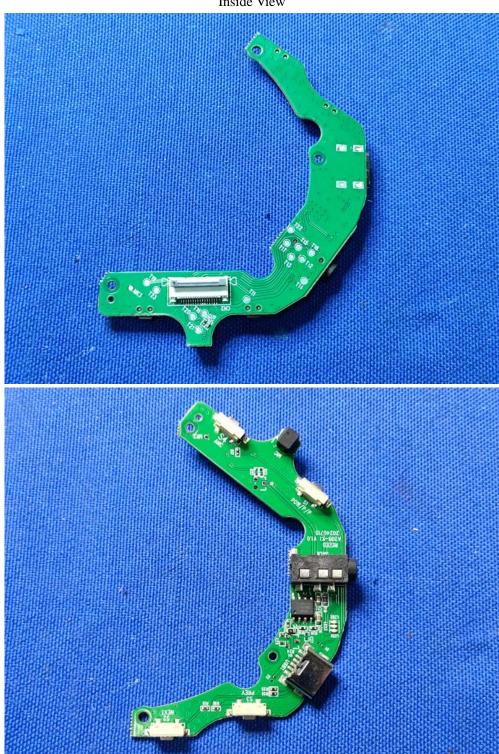
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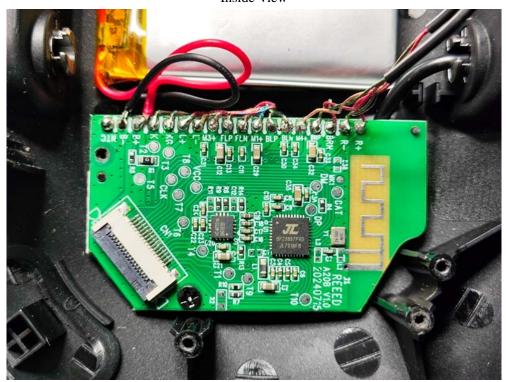
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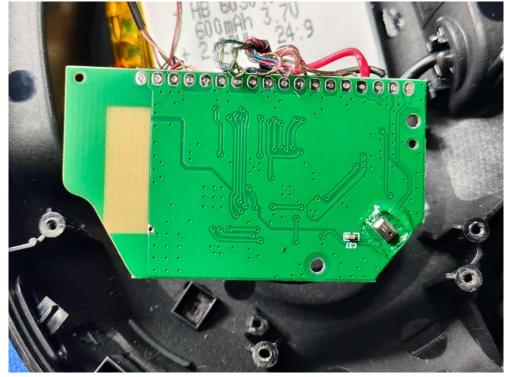
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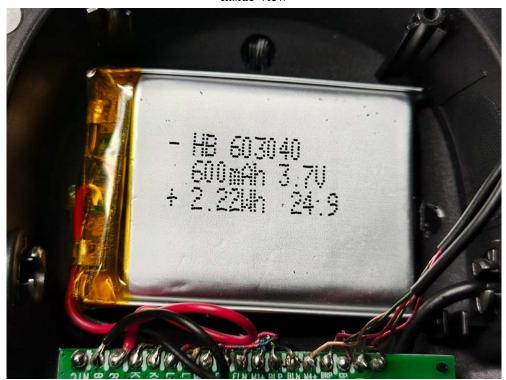
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-- End of the report--