



Report No.: TW2103395E File reference No.: 2021-04-13

Applicant: Shenzhen huishunda Technology Co., Ltd

Product: TWS Bluetooth Earbuds

Model No.: W2

Brand Name: N/A

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 &FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: April 13, 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

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

11.0

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Photo of Test Setup and EUT View.

Date: 2021-04-13



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 huishunda Technology Co., Ltd

Address: 204204, 3 Baokun Industrial Zone, Dalang community, Dalang street, Longhua District,

Shenzhen, China

Telephone: --Fax: --

1.3 Description of EUT

Product: TWS Bluetooth Earbuds

Manufacturer: Shenzhen huishunda Technology Co., Ltd

Address: 204204, 3 Baokun Industrial Zone, Dalang community, Dalang street, Longhua

District, Shenzhen, China

Brand Name: N/A
Model Number: W2
Additional Model Name N/A
Hardware Version: V13
Software Version: V27

Rating: DC3.7V, Built-in DC 3.7V/0.11Wh Li-ion battery;

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

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz
Channel Number: 79

Antenna Designation FPC antenna with gain 1.11dBi Max (Get from the antenna specification

provided by the applicant)

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2021-03-26 to 2021-04-13

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	2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date	
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22	
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22	
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22	
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22	
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24	
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22	
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22	
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08	
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22	
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22	
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03	
9*6*6 Anechoic			N/A	2020-07-06	2021-07-05	
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22	
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22	
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22	
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22	
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15	
DE C-1-1-	7711:	ZT26-NJ-NJ-8		2020 06 22	2021 07 22	
RF Cable	Zhengdi	M/FA		2020-06-23	2021-06-22	
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22	
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22	
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22	
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22	
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

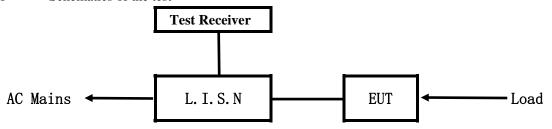
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

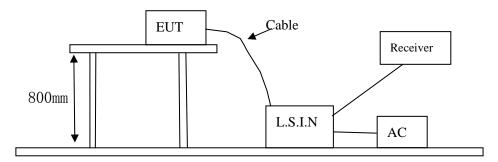


EUT: Equipment Under Test

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.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
TWS Bluetooth Earbuds	Shenzhen huishunda Technology Co.,	W2	2AZJO-W2
1 WS Diuctootii Earouds	Ltd	VV 2	ZAZJO-WZ

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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	Class B 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

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

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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

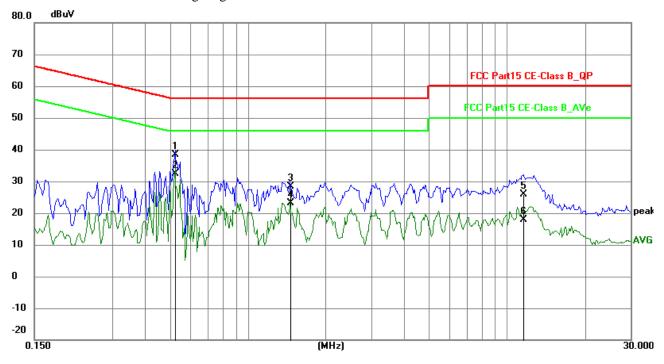
EUT set Condition: Charging + Communication by Bluetooth

Model: W2

Equipment Level: Class B

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	0.5243	28.49	9.77	38.26	56.00	-17.74	QP	Р
2	0.5243	22.63	9.77	32.40	46.00	-13.60	AVG	Р
3	1.4604	18.68	9.79	28.47	56.00	-27.53	QP	Р
4	1.4604	13.26	9.79	23.05	46.00	-22.95	AVG	Р
5	11.5605	15.53	10.23	25.76	60.00	-34.24	QP	Р
6	11.5605	7.58	10.23	17.81	50.00	-32.19	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

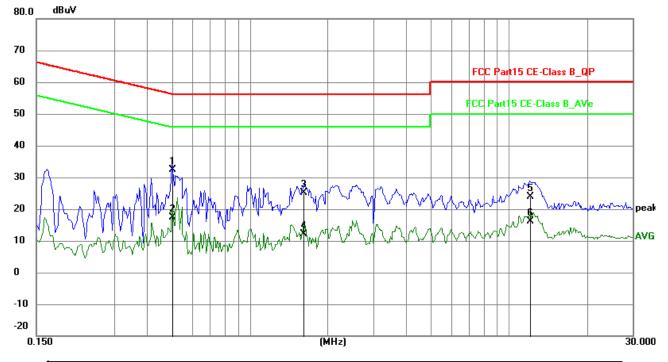
EUT set Condition: Charging + Communication by Bluetooth

Model: W2

Equipment Level: Class B

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	0.5010	22.63	9.77	32.40	56.00	-23.60	QP	Р
2	0.5010	7.71	9.77	17.48	46.00	-28.52	AVG	Р
3	1.6164	15.28	9.80	25.08	56.00	-30.92	QP	Р
4	1.6164	2.28	9.80	12.08	46.00	-33.92	AVG	Р
5	12.0363	13.67	10.25	23.92	60.00	-36.08	QP	Р
6	12.0363	5.86	10.25	16.11	50.00	-33.89	AVG	Р

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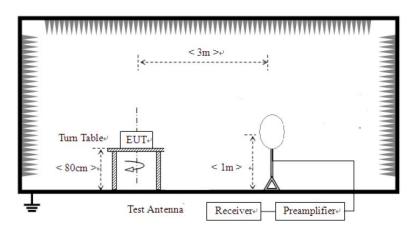


6 Radiated Emission Test

- 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



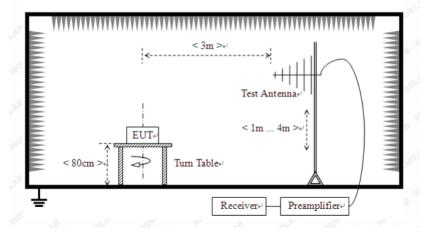
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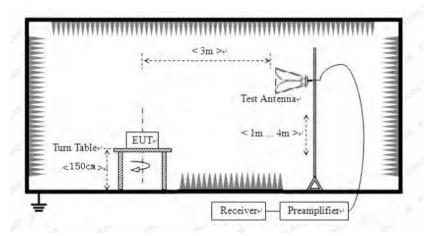
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For radiated emissions from 30MHz to1GHz



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 Strength of Harmonics (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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. 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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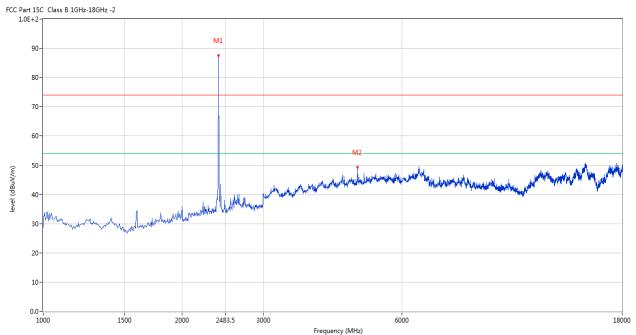


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



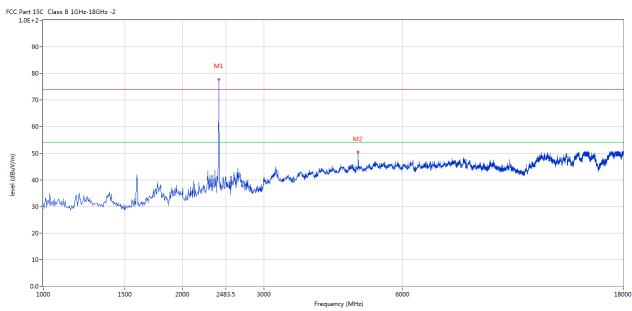
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	87.59	-3.57	114.0	-26.41	Peak	131.00	100	Horizontal	Pass
2	4803.750	49.29	3.13	74.0	-24.71	Peak	146.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	77.83	-3.57	114.0	-36.17	Peak	183.00	100	Vertical	Pass
2	4803.750	50.40	3.13	74.0	-23.60	Peak	25.00	100	Vertical	Pass

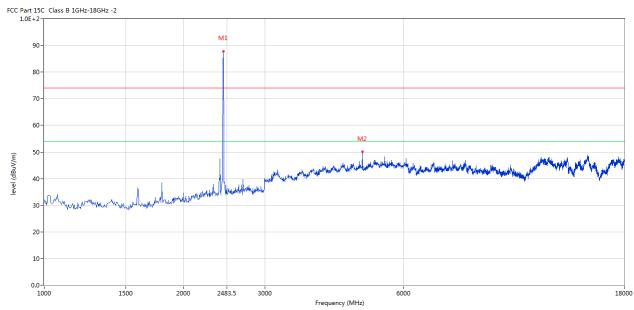
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



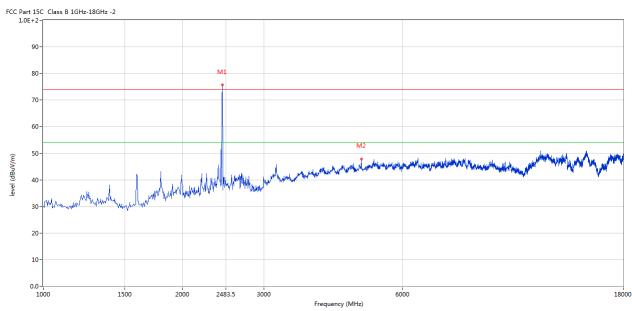
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	87.82	-3.57	114.0	-26.18	Peak	152.00	100	Horizontal	Pass
2	4880.250	50.09	3.20	74.0	-23.91	Peak	277.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	75.65	-3.57	114.0	-38.35	Peak	122.00	100	Vertical	Pass
2	4880.250	47.93	3.20	74.0	-26.07	Peak	0.00	100	Vertical	Pass

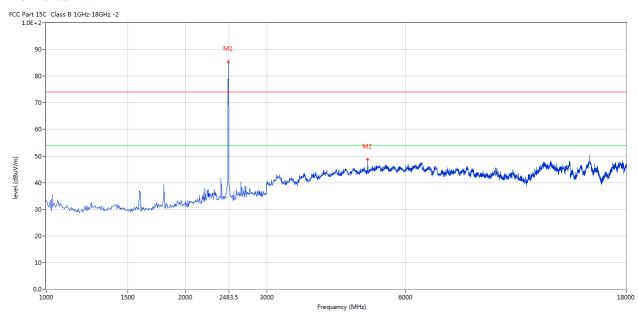
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.600	85.39	-3.57	114.0	-28.61	Peak	215.00	100	Horizontal	Pass
2	4961.000	48.75	3.36	74.0	-25.25	Peak	276.00	100	Horizontal	Pass

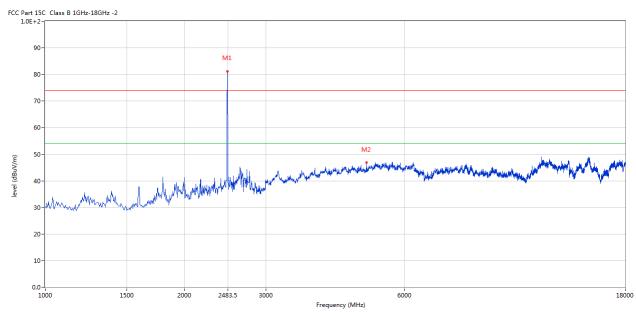
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.600	81.22	-3.57	114.0	-32.78	Peak	179.00	100	Vertical	Pass
2	4961.000	46.86	3.36	74.0	-27.14	Peak	216.00	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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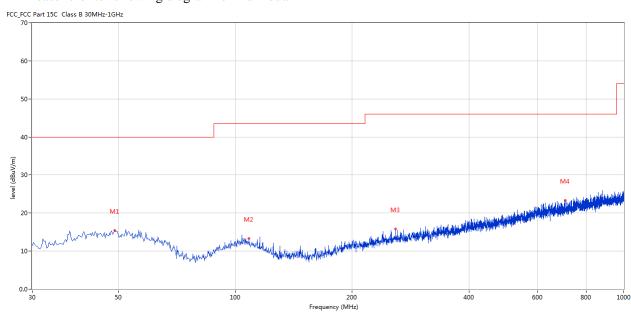


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	48.910	15.48	-11.21	40.0	-24.52	Peak	315.00	100	Horizontal	Pass
2	108.550	13.31	-13.46	40.0	-26.69	Peak	350.00	100	Horizontal	Pass
3	258.620	15.86	-11.85	47.0	-31.14	Peak	230.00	100	Horizontal	Pass
4	706.891	23.28	-3.97	47.0	-23.72	Peak	347.00	100	Horizontal	Pass

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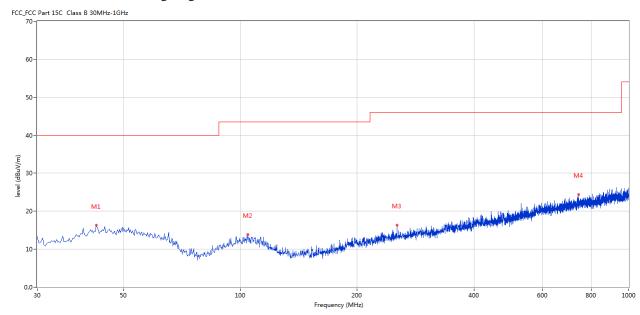


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	42.607	16.29	-11.55	40.0	-23.71	Peak	18.00	100	Vertical	Pass
2	104.671	13.85	-13.25	40.0	-26.15	Peak	40.00	100	Vertical	Pass
3	253.287	16.41	-12.15	47.0	-30.59	Peak	116.00	100	Vertical	Pass
4	744.226	24.38	-3.52	47.0	-22.62	Peak	108.00	100	Vertical	Pass

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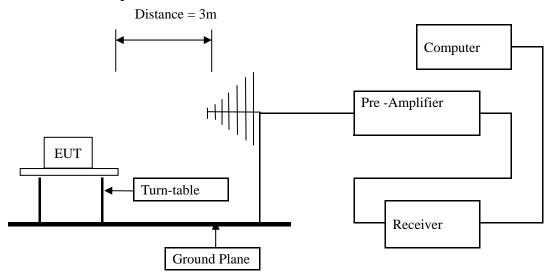


7. Band Edge

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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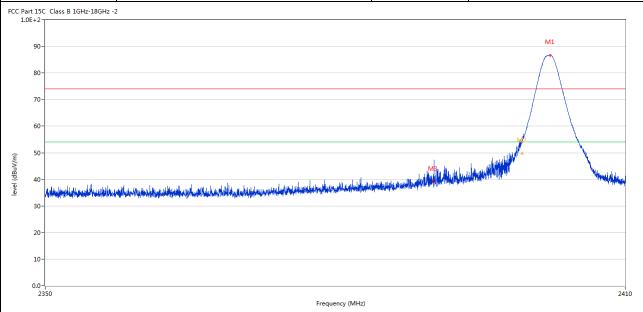
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7.6 Test Result

Product:	TWS Bluetooth Earbuds	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 (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2399.200	53.63	-3.56	74.0	-20.37	Peak	158.00	100	Horizontal	Pass
2**	2399.200	49.66	-3.56	54.0	-4.34	AV	158.00	100	Horizontal	Pass
3	2389.930	39.15	-3.53	74.0	-34.85	Peak	355.00	100	Horizontal	Pass

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Pro	oduct:		TWS Blu	etooth Earbu	uds	Detec	tor	•	Vertical	
M	/lode		Keeping	g Transmitti	ng	Test Vol	tage	Ι	DC3.7V	
Temp	perature		24	4 deg. C,		Humid	lity	5	6% RH	
Test	Result:			Pass						
C Part 15C (Class B 1GHz-18GHz	-2								
90-										
									M1	
80-									\triangle	
70-								/	/ \	
								- 1	1	
60-								M2	-	
	r ho air nais sa dho	a k Tullaka e a nama a a	. 4. 4. 11. 44. 5	n . t kald Nebb anemake i	مناط غازوان وراجاليا ومراجالها	lift, e.e., collectivity des la Residen	M3	•		ul i o skidis.
	toolds, offense, he had been	to have had bloom included to a file	in the state of the state of	hah spild hill waadayl ku	girlf og klad har flyste skilde skir har fels	ithorace also risk single tradi		,2		Mak dishibili diper
50-	der/labir.#Houdish.h.nookabilge/	transki de die oorde de de oorde de de oorde de de oorde	interpretation	nah spik lalih, wandalik ka	gildred his hip his hot he has disk fel y	i Anaugus diperiod virgis tradit		, <u>, , , , , , , , , , , , , , , , , , </u>		Malaka Halada kayay
50 - 40 -	fundaharat ferbahaharak bilgar	teknolitik birokuduk Atbanji	ich de it ne jederichte.	and distribution of the	apple of his lay his best he seemed by the	i Antonio de Principio India		,2		Marie de Marie de La Company
50 - 40 - 30 - 20 -	dyn lagu arthur da hallyn l	tekup kitab disebuah distribusik	igishading deputabasal	nah dalah kalendari ka		i Annagarah pelakulangka kapab		v/2		
30 - 20 -	4 politika stopednosta kongresa beligar	transki de de se de	in the street which	nah dalah lahik mendelah da	Frequency (MH			0		2410
30 - 20 - 10 - 2350	Frequency	Results	Factor	Limit	Frequency (MH	z) Detector	Table (o)	Height	ANT	
30- 20- 10- 2350		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	1		Table (o)	Height (cm)	ANT	
30 - 20 - 10 - 2350	Frequency				Over Limit		Table (o)	_	ANT Vertical	2410 Verdict
50- 40- 30- 20- 10- 2350	Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	Over Limit (dB)	Detector		(cm)		Verdic

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2**

2483.282

51.08



Pr	roduct:		TWS Blu	etooth Earb	uds	Polarit	ty		Horizontal	
l	Mode		Keeping	g Transmitti	ing	Test Volt	tage		DC3.7V	
Tem	nperature		24	4 deg. C,		Humidi	ity		56% RH	
Tes	t Result:			Pass						
Part 15C	Class B 1GHz-18GHz	-2								
90-										
80-										
70-										
				\						
60-			_/							
60 -		المهالانا .			12					
60 - 50 -	مدر فرها القالم بالاستان				0.00					
		AND AND PARTY			N.S.	in the state of th	and the property of the proper	والمعالمة المالية والمالية وا		interest de la lace
		matilde and the state of the st	surfue de la companya della companya della companya de la companya de la companya della companya		The state of the s	n, and almost and an all places and an	aleridd yddyfolgolyd o byr o byr o	والمعادرة المعادية	national hades had side of same hades has sharp the	Anny tractor of bloods
50 - 40 - 30 -	nderskieler (de State des States des	matificial distribution			O THE STATE OF THE	n to design to be designed to the second	sderjádných doktorá byca	difference and ordered	, were think to his high beautiful b	appropried by the state of the
50 - 40 - 30 -	industrial policy light design of the control of th	indiffed to the state of the st			The state of the s	ng wall they bear down, they seek a	akirjadiyjadiyida daga daga daga daga daga daga daga d	difference and ordered and	n provens have be the list of some beat have the	departurate de la descripción
50 - 40 - 30 -	related with the first state of the sec				N. S.	n, and almost and a substitution of the	skryidiyindiyindi olga o	difference and opening	and the second s	Approximate of Liberty
50 - 40 - 30 - 20 - 10 -	770	indilijahis da ja			2483.5	n, white deal deal deployment when with a	alinidayidayida daga daga daga daga daga daga daga d	difference and ordered	n prompt han by the last of the single bang also	2500
50 - 40 - 30 - 20 - 10 -							thing deliver the state of the	deflected agricultury parties	and the state of t	
50 - 40 - 30 - 20 - 10 - 0.0 - 24		Results	Factor	Limit	2483.5		Table (o)	Height	ANT	2500
50 - 40 - 30 - 20 - 10 -	70	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MH	z)				

ΑV

-2.92

147.00

100

Horizontal

Pass

54.0

-3.57

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	Product:	•	TWS Blu	etooth Earbud	S	Detect	or	7	Vertical	
	Mode Cemperature Cest Result: t15C Class B 1GHz-18GHz -2		Keeping	g Transmitting	3	Test Volt	tage	I	DC3.7V	
Te	Temperature Test Result: rt 15C Class B 1GHz-18GHz -2 EE+2 90 80 70 60		24	deg. C,		Humid	ity	5		
Te	est Result:			Pass						
CC Part :		-2								
ġ	90-									
8	80-									
7	70-									
6	50-		-/-							
_		مهادار								
_	50-	<u>ڂٷڸٷڶٷڶڂٷٷٷٷٷ</u>			was designed and		day of the state of		AND AND THE REAL PROPERTY.	
level (dBuV/m)	10 - 1111111111111111111111111111111111	· 图片中的中心			A SHARMARA	nadistalista ya apadelepa	deg pida ay gadayin digili ballayi	ndyMdd ryyddiddddiddidd		
level (dBuV/m)	40-million 1111 1111 1111 1111 1111 1111 1111 1	物的特殊的			And the state of t	navijala ^h istori da salahahar	dagadaya dagaday	n de produktion de la constitución de la constituci	ikidadi ilberilektiri yan yiladi.	and the second second
level (dBuV/m)	30-	ते होते की दिवस के पहले हो है कि हम कि कर कर कर के लिए हैं कि कि कर कि			A A A A A A A A A A A A A A A A A A A	haddalan ya daga dalaha k	dag dipungkan dinibut ka	ng phái ng pháth hilbin	ikishadhada bada (kiphada), ahada	
level (dBuV/m)	30 -	本語音報音を表示			37.1		daga kepada pelakan		ikishada diga bish tish cash, ahadd	
level (dBuV/m)	30 -			2	2483.5 Frequency (MHz		dag di katikat di Katikat ka	ndymdd hyfyddiddiddiddi		2500
level (dBuV/m)	30 -	Results	Factor	Limit	2483.5) Detector	Table (o)	Height	ANT	2500 Verdict
level (dBuV/m)	30	Results (dBuV/m)	Factor (dB)		2483.5 Frequency (MHz	1	Table (o)	Height (cm)	ANT	1

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 FPC antenna. The antenna gain is 1.11dBi Max. It fulfills the requirement of this section. Test Result: Pass

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FSK Modulation Product:	TW/C D1	luetooth E	Farhude		То	st Mode:		Keep tra	nemitti	na
Mode		ng Transm				st Voltage			3.7V	ing
Temperature		24 deg. C,				umidity			RH	
Test Result:		Pass				Detector			K	
OdB Bandwidth	829.66kHz				L				. <u>.</u>	
^	Delta 1 [T1]					30 k	U o 1	RF Att	20	др
Ref Lvl	Deita i		.79 dB		3W 3W	100 k		Kr Acc	20	αь
10 dBm	829		864 kHz		VТ	8.5 m		Unit		dBm
10						v ₁	[T1]	2	2.42	d Dw
						. Т	[11]	2.4015	7	dBm
0			7	7		<u> 1</u>	[T1]		0.79	dB
			\ \\	\ Λ			8	329.6593	1864	kHz
-10				$\frac{1}{\sqrt{1}}$		∇_2	[T1]	_	2.42	dBm
			\mathcal{N}		٦			2.4020	0301	GHz
-20	_	- 1 /			4	1				
D1 -22.42 di	3m					Thy				
-30						<u> </u>				
	\wedge	/				·	7			
-40	\(\sigma\)						4			
-50										
Morando)		v~1.	
-60									1	MM
-70										
-80										
-90										

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Product:		TWS Blu	uetooth Ea	ırbuds		Test Mo	ode:		Keep tr	ansmitting	_ _
Mode		Keepin	g Transmi	tting		Test Vol	tage		DO	C3.7V	
Temperature			4 deg. C,			Humid	ity		56	% RH	
Test Result:			Pass			Detect	or			PK	
0dB Bandwidth		82	29.66kHz								
<i>6</i>		Delta 1	[T1]		RBV	1 3) kH	Iz	RF Att	20 dB	
Ref Lvl			-0.	34 dB	VBV	10) kH	Ιz			
10 dBm		829	.659318	864 kHz	SWI	8.	5 ms	5	Unit	dBr	m
10							v ₁	[T1]	-2	2.93 dBr	n A
									2.4405	7014 GHz	
0				2			1	[T1]	_	0.34 dB	
					$\setminus \land$		▽ 2	[T1]	829.6593		Z
-10					V 1/2		- 2		2.4409	3.01 dBr 9699 GHz	2
			/	\mathcal{N}	4	\h					
-20 -1D1 -23.	01 dBm					<u></u>					1
122 23.	or ap					~~~					1M2
-30			/-				M				1
40		<u>ر</u> ک	<i>)</i>					4			
-40	\mathcal{M}							٦	m		
-50	, WW.	V							V	hy in	
-60										W. J.	DE
-70											-
-80							+				-
-90 Center 2	. 441 ਫਾ	Hz		300	kHz/				Sn	an 3 MHz	
	.111 G.		500	/				Spe	5 11112	_	

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Product:		TWS Blu	uetooth Ea	rbuds		Te	est Mode:			Keep tra	nsmit	ting	
Mode		Keepin	g Transmi	tting		Te	st Voltage	;		DC	3.7V		
Temperature		2	4 deg. C,				Iumidity		56% RH				
Test Result:			Pass			Detector			PK				
20dB Bandwidth		83	85.67kHz										
		Delta 1			RB'	W	30 k		RF	Att	20	dВ	
Ref Lvl		025		03 dB	VB		100 k			ے۔		-1 D	
10 dBm		835	5.671342	69 KHZ	SW'	T	8.5 m	s	Ur	nit		dBm	
							v ₁	[T1]		-23		dBm	Α
0				,	1)		. 1	[T1]		2.47956	413	GHz	
				^ }			<u></u> 1	[11]	83	5.67134	269	uв kHz	
-10				100	Λ		∇_2	[T1]		-3	.78	dBm	
				/	I ~ Ly					2.48000	301	GHz	
-20				\mathcal{N}	· ·	Z	-						
-1 D1 −23.	78 dBm						V ₁						1M2
-30			لہ				7						
								7					
-40	^							7		~			
-50	~~~~~	V							V	Yun			
-60											MANY.	اللي المحالا	
-70													
-80													
-90 Center 2	48 CII	7		300	kHz/					gn a	n 3	MUr	
Date: 6.	. 10 011	_		500	/					Spa	-1)	2	

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Pi/4D-QPSK M	Iodulatio	on									
Product:		TWS B1	uetooth Ea	ırbuds		Test Mod	de:		Keep tr	ansmitting	
Mode		Keepin	g Transmi	tting		Test Volta	age		DO	C3.7V	
Temperature		2	4 deg. C,			Humidi	ty		569	% RH	
Test Result:			Pass			Detecto	or	PK			
20dB Bandwidth		1.	208MHz								
		Marker	1 [T1 r	ndB]	RE	W 30	kHz	RI	7 Att	20 dB	
Ref Lvl 10 dBm		ndB BW	20. 1.208416	00 dB 83 MHz	VE SW		kHz ms	Ur	nit	dBm	
10				_		•	'1 [T	1]	-: 2.40199	2.47 dBm 9699 GHz	A
-10				\wedge		E	idB BW 'Tl [T1]	20 1.20841 -2:	0.00 dB 1683 MHz 2.38 dBm	
-20					\mathcal{N}	my	T2 [т1]	2.40138	377 GHz	
1MAX							7		2.40259	9218 GHz	1MA
-40											
-50	Λų	\wedge						\sqrt{N}	<u>a M</u>		
-60	/ // `							*		obly hard	
-70											
-80											
-90 Center 2	.402 GI	Hz		300	kHz/				Spa	an 3 MHz	
Date: 6.	APR.20	21 17:	12:07		-						

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Product:		TWS B	luetooth Ea	ırbuds		T	est Mode:		Keep tra	nsmitting	
Mode		Keepii	ng Transmi	tting		Te	est Voltage		DC	3.7V	
Temperature			24 deg. C,]	Humidity		56%	6 RH	
Test Result:			Pass				Detector		PK		
dB Bandwidth		1	.214MHz								
r		Marker	1 [T1 r	ndB]	R	.BW	30 kH	z Rl	7 Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 kH				
10 dBm		BW	1.214428	886 MHz	S	WT	8.5 ms	Uı	nit	dBm	1 -
10							V 1	T1]	-3	.00 dBm	A
0				1					2.44099	699 GHz	
				^ 7			ndB BW		20 1.21442	.00 dB 886 MHz	
-10							$lackbox{f d}_{ m T1}$	[T1]		.81 dBm	
10		·	\sim		\sim	~~	My		2.44037	776 GHz	
-20		<u> </u>						[T1]	-23	.45 dBm	
1MAX							12	١	2.44159	218 GHz	1M2
-30											
-40	\sim	\sim						W	$\wedge \wedge$		
men									\ \ _\ \\	Land Market	
-60											
-70											
-80											
-90 Center 2	Center 2.441 GHz 300								Spa	n 3 MHz	

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Product:	Т	ΓWS Βlι	uetooth Ea	rbuds		T	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting		Te	est Voltage		DC	3.7V	
Temperature		24	4 deg. C,]	Humidity		56%	6 RH	
Test Result:		·	Pass				Detector		PK		
dB Bandwidth		1.	202MHz								
	Ma	arker	1 [T1 n	idB]	F	RBW	30 kH	z RI	7 Att	20 dB	
Ref Lvl	no	dB		00 dB	7	/BW	100 kH				
10 dBm	ВІ	W 1	.202404	81 MHz	5	SWT	8.5 ms	Uı	nit	dBm	1
							v ₁	[T1]	-3	.81 dBm	A
0									2.47999	699 GHz	
							ndB BW		20 1.20240	.00 dB	
1.0				$\land \land \land$	\		$oldsymbol{ abla}_{ ext{T1}}$	[T1]	-23	481 MHz	
-10					5	γΛ	Mm		2.47938	377 GHz	
						W	\vec{\text{\text{T}}}	[T1]	-23	.66 dBm	
-20 1MAX		Ţ	<u>L</u>				1	٧	2.48058	617 GHz	1M
-30											
-40	/\n. /\	~						L.M			
-60 WM								V	My July	M	
-70											
-80											
-90 Center 2.4	18 GHz			300	kHz/				Sna	n 3 MHz	I
ate: 6.A	Center 2.48 GHz 30								SPG		

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Product:		TWS B	luetooth Ea	ırbuds		T	est Mode:		Keep transmitting		
Mode		Keepir	ng Transmi	tting		Т	est Voltage		DC	3.7V	
Temperature		2	24 deg. C,]	Humidity		56%	6 RH	
Test Result:			Pass				Detector	PK			
OdB Bandwidth		1	.214MHz								
Ŕ		Marker	1 [T1 r	ndB]	R	.BW	30 kH	z Rl	7 Att	20 dB	
Ref Lvl		ndB		00 dB		BW	100 kH				
10 dBm		BW	1.214428	886 MHz	S	WT	8.5 ms	Uı	nit	dBm	
							V 1 [T1]	-2	.39 dBm	A
0				-					2.40200	301 GHz	
				^ /			ndB BW		20 1.21442	.00 dB 886 MHz	
-10				$ \ \ \ $	\		∇_{T1}	[T1]	-22	.16 dBm	
-10			M		3	3	My		2.40137	776 GHz	
-20		т					, 4/15	[T1]	-22	.68 dBm	
1MAX			d .					١	2.40259	218 GHz	1M2
-30											
-40		M							\sim		
www.m	,							·	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	my bully for	
-60											
-70											
-80											
-90 Center 2	O Center 2.402 GHz 300								Spa	n 3 MHz	

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Product:		TWS B1	uetooth Ea	rbuds		T	est Mode:		Keep transmitting		
Mode			g Transmi	tting			est Voltage			23.7V	
Temperature		2	4 deg. C,				Humidity			% RH	
Test Result:			Pass				Detector	PK			
OdB Bandwidth		1.	.214MHz								
			1 [T1 r			BW	30 kH		7 Att	20 dB	
Ref Lvl		ndB		00 dB		BW	100 kH			dD	
10 dBm	-	BW 1	1.214428	886 MHZ	51	WT	8.5 ms	Ui	nit	dBm	l ■
							▼1 [T1]	-2	.98 dBm	A
0							7.5		2.44099	699 GHz	
				^ /			ndB BW		1.21442	.00 dB 886 MHz	
-10					\		$oldsymbol{ abla}_{\mathrm{T1}}$	[T1]	-22	.88 dBm	
			MM		\sim	\mathcal{N}	$\Lambda_{\gamma_{\alpha}}$		2.44037	776 GHz	
					· ·		A T. 2	[T1]	-23	.22 dBm	
-20 1MAX		Ž						١	2.44159	218 GHz	1M2
-30											
-40	M	W						M	~		
-50	W							,	M	Mun Marine	
-60											
-70	-70										
-80	80										
-90 Center 2	90 Center 2.441 GHz 300								Spa	ın 3 MHz	

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Product:		TWS B	luetooth Ea	rbuds		Т	est Mode:		Keep tra	ansmitting	
Mode		Keepir	ng Transmi	tting		Te	est Voltage		DC	3.7V	
Temperature		2	24 deg. C,]	Humidity		56%	6 RH	
Test Result:			Pass				Detector]	PK	
dB Bandwidth	•	1	.208MHz		•						
		Marker	1 [T1 n	idB]	F	RBW	30 ki	łz Ri	F Att	20 dB	
Ref Lvl		ndB		00 dB	7	/BW	100 ki				
10 dBm		BW	1.208416	83 MHz	S	SWT	8.5 ms	5 Ui	nit	dBm	l
10							v ₁	[T1]	-3	.72 dBm	A
									2.47999	699 GHz	
0				. 7			ndB		20	.00 dB	
				\			BW $oldsymbol{ abla}_{ ext{T1}}$	[T1]	1.20841	683 MHz	
-10			^		7	~	<u></u>	[+ +]	2.47937	776 GHz	İ
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ζ .		\cup	, A ^{L3}	[T1]	-23	.41 dBm	
-20		T							2.48058	617 GHz	1M2
		/					Ì	h			LMZ
-30											
-40	О.,	nJ						lich	М		
-50	M							\	W YM	My walk	
-60										Acres P.c.	
-70	70										
-80											
-90 Center 2	.48 GH:	z		300	kHz/	,			Spa	n 3 MHz	
ate: 6.		Center 2.48 GHz 300							SPO		

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10.0 FCC ID Label

FCC ID: 2AZJO-W2

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.

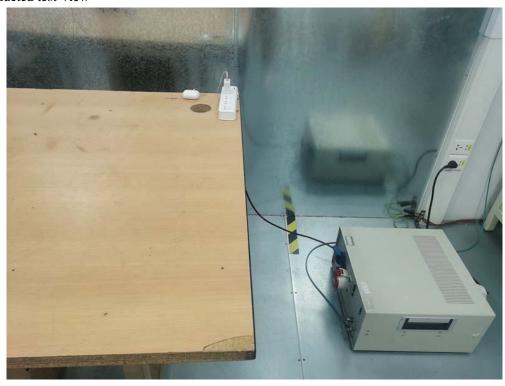
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11.0 Photo of testing

11.1 Conducted test View--



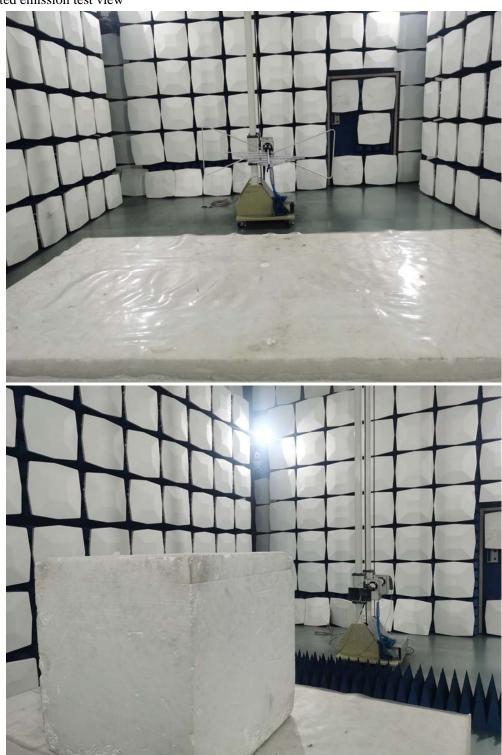
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Radiated emission test view



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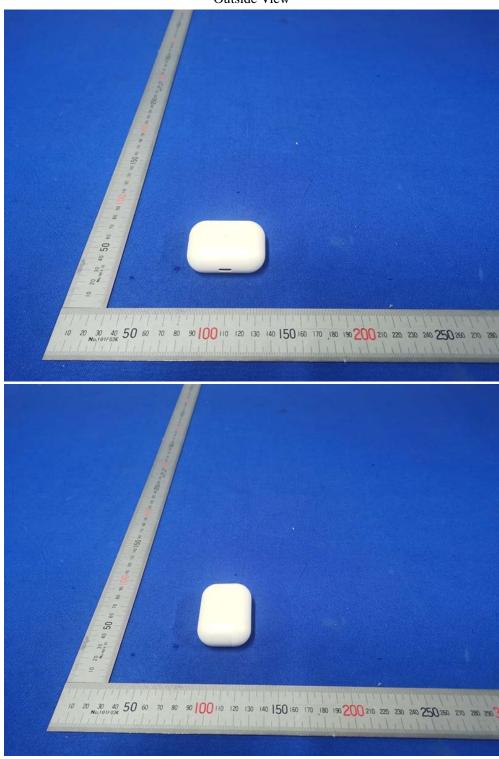
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11.2 Photographs – EUT

Outside View



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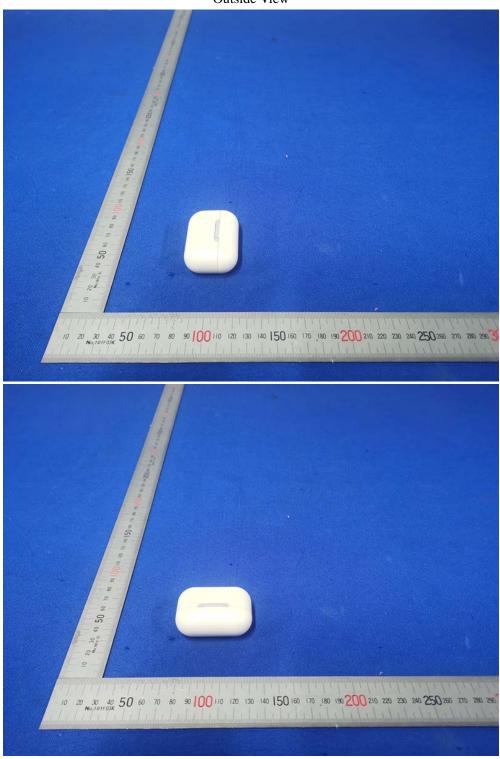
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Photographs - EUT

Outside View



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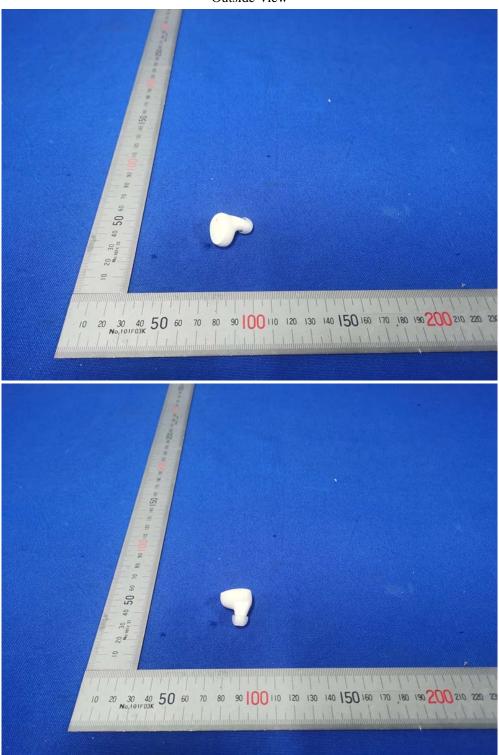
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Outside View



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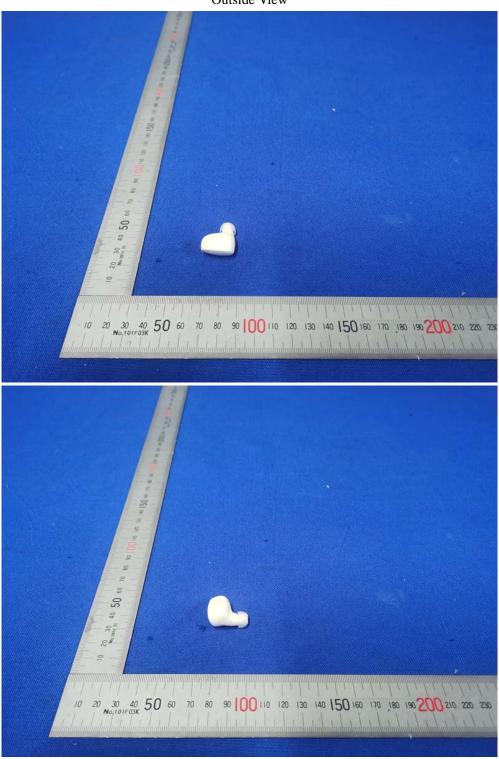
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Outside View



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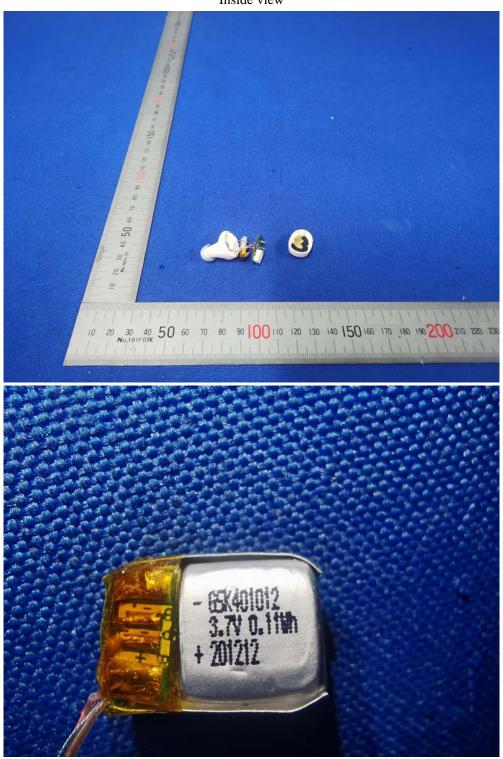
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Inside view



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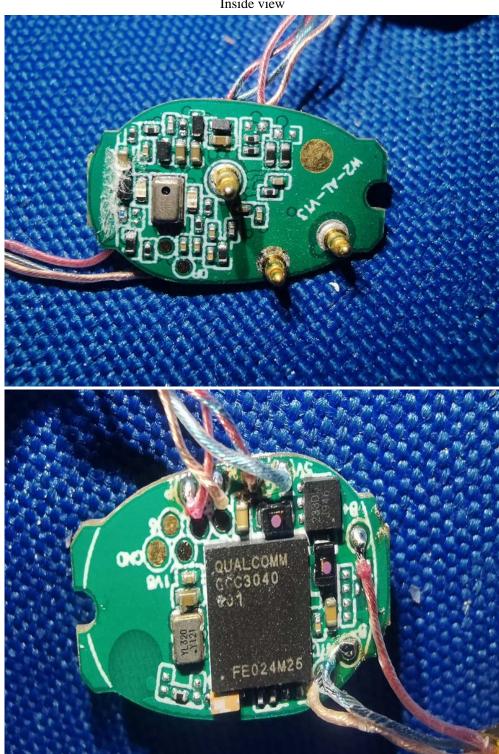
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Inside view



-- End of the report--

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