



Report No.: File reference No.:	TW2104213E 2021-04-28
Applicant:	TECHNOFASHION INC.
Product:	TRUE WIRELESS STEREO EARBUDS
Model No.:	NTWS02
Brand Name:	Nautica
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	
Approved By Jack Chung	

Jack Chung

Manager

Dated:

April 28, 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



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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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, ChinaTelephone:(755) 83448688Fax:(755) 83442996China Ei La La Complexity of the La

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant:TECHNOFASHION INC.Address:26, Park Street Ste#2340, Montclair, NJ, USA, 07042Telephone:+1 (347) 510-2340Fax:--

1.3 Description of EUT

Product:	TRUE WIRELESS STEREO EARBUDS
Manufacturer:	TECHNOFASHION INC.
Address:	26, Park Street Ste#2340, Montclair, NJ, USA, 07042
Brand Name:	Nautica
Model Number:	NTWS02
Additional Model Name	N/A
Hardware Version:	S18-AD6973_V2.0
Software Version:	5.1
Serial No.:	NTWS02202103
Rating:	DC5V or Built-in DC3.7V, 40mAh Li-ion battery
Modulation Type:	GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)
Operation Frequency:	2402-2480MHz
Channel Separate:	1MHz
Channel Number:	79
Antenna Designation	PCB antenna with gain 2.73dBi Max (Get from the antenna specification
	provided by the applicant)

1.4 Submitted Sample: 1 Sample

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- 1.5 Test Duration 2021-04-16 to 2021-04-27
- 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 lang

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	
RF Cable	Zhengdi	ZT26-NJ-NJ-8 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

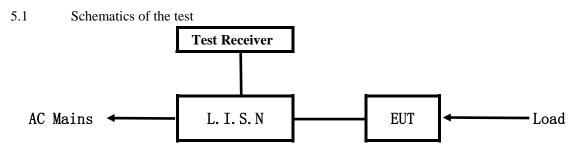
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5. Power Line Conducted Emission Test

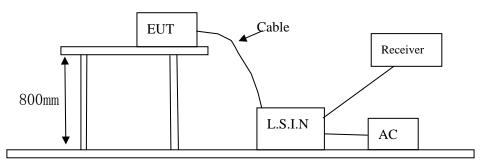


EUT: Equipment Under Test

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 500hm/50uH as specified by section 5.1 of ANSI C63.10-2013.

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
А.	

Device	Manufacturer	Model	FCC ID
TRUE WIRELESS	TECHNICEASHION INC	NTWS02	247DO N00004
STEREO EARBUDS	TECHNOFASHION INC.	IN I W 502	2AZBO-N00004

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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	
$5.00 \sim 30.00$	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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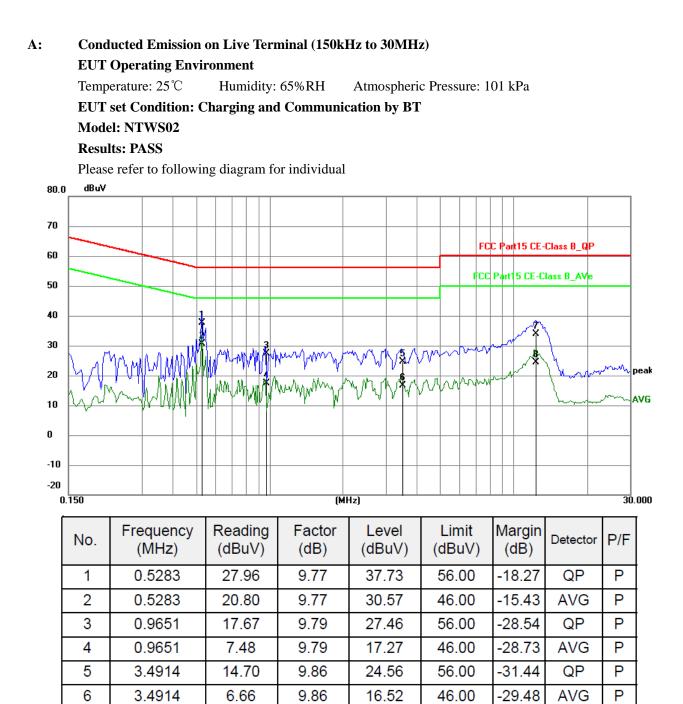


Ρ

Ρ

QP

AVG



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23.54

14.14

12.2976

12.2976

7

8

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33.80

24.40

60.00

50.00

-26.20

-25.60

10.26

10.26



Ρ

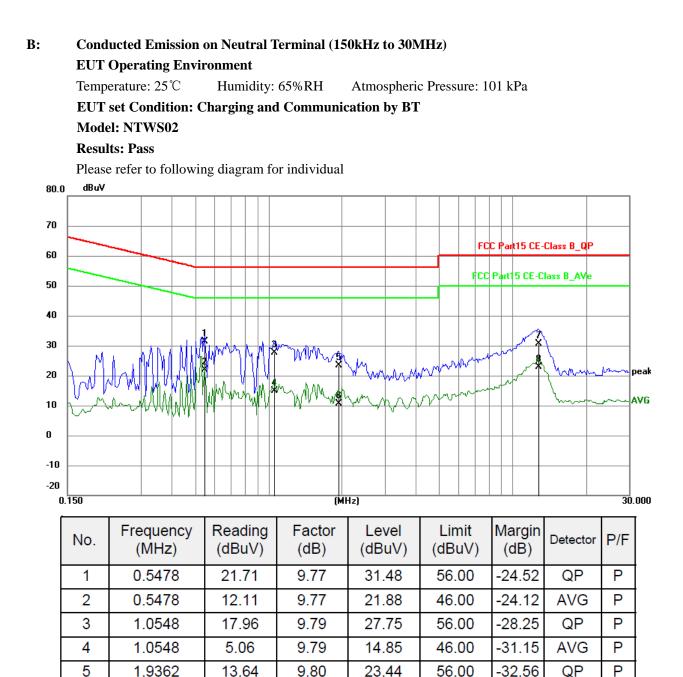
Ρ

Ρ

AVG

QP

AVG



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0.90

20.24

12.54

1.9362

12.7461

12.7461

6

7

8

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9.80

10.28

10.28

10.70

30.52

22.82

46.00

60.00

50.00

-35.30

-29.48

-27.18



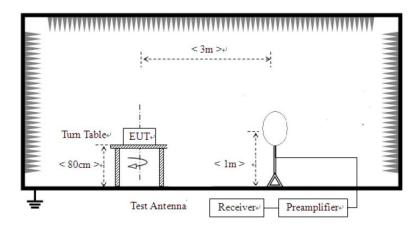
6 Radiated Emission Test

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

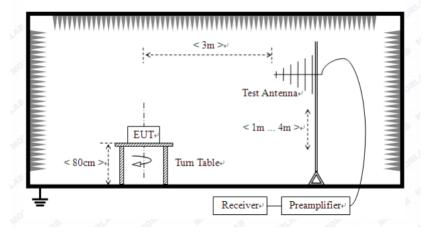


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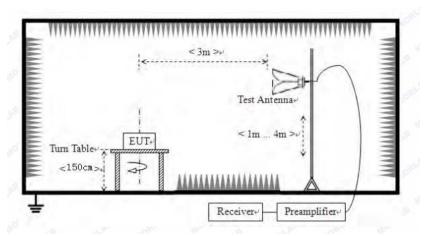
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For radiated emissions from 30MHz to1GHz



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 Stre	ength of Fundame	ntal (3m)	Field S	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
N	1 (10 10)	AGI DEVI				

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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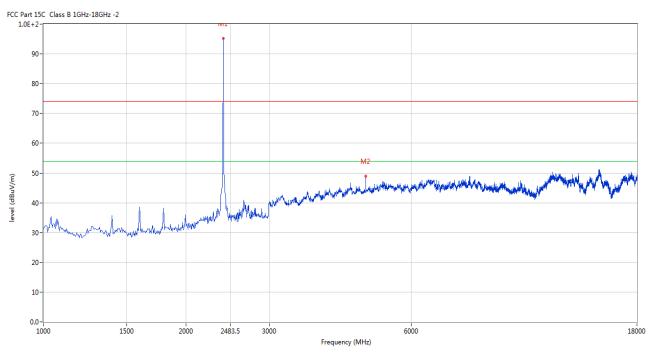
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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	95.25	-3.57	114.0	-18.75	Peak	134.00	100	Horizontal	Pass
1*	2402.500	84.53	-3.57	94.0	-9.47	AV	134.00	100	Horizontal	Pass
2	4803.750	49.04	3.13	74.0	-24.96	Peak	134.00	100	Horizontal	Pass

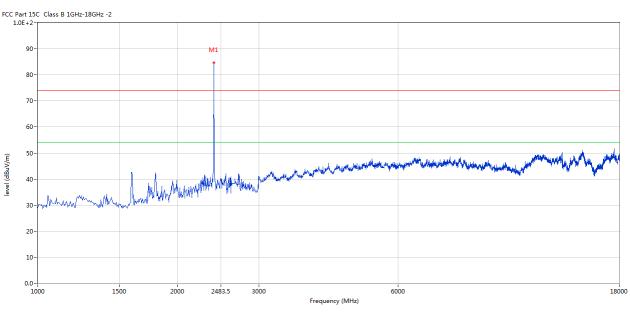
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Vertical





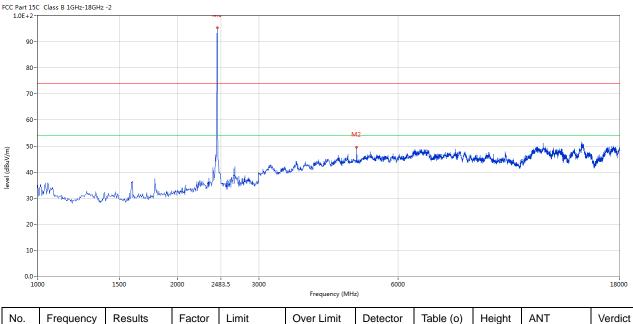
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	84.65	-3.57	114.0	-29.35	Peak	42.00	100	Vertical	Pass

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Please refer to the following test plots for details: High Channel-2441MHz **Horizontal**



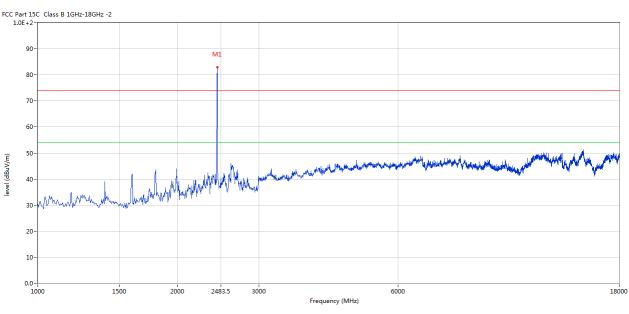
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	95.40	-3.57	114.0	-18.60	Peak	136.00	100	Horizontal	Pass
1*	2440.750	84.68	-3.57	94.0	-9.32	AV	136.00	100	Horizontal	Pass
2	4880.250	49.44	3.20	74.0	-24.56	Peak	141.00	100	Horizontal	Pass

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Vertical





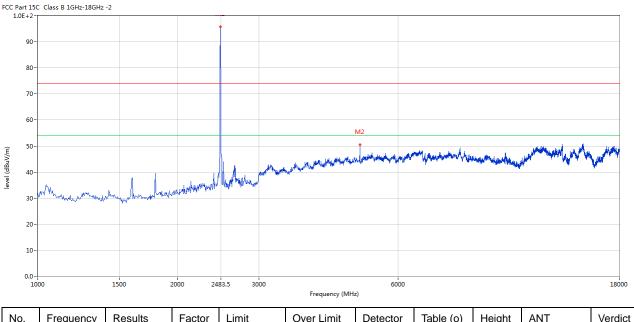
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	83.00	-3.57	114.0	-31.00	Peak	225.00	100	Vertical	Pass

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

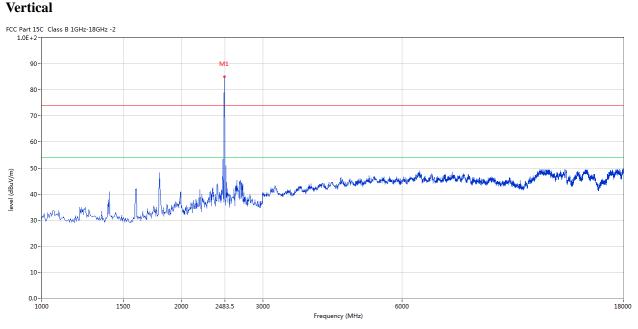


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	95.73	-3.57	114.0	-18.27	Peak	150.00	100	Horizontal	Pass
1*	2479.750	85.02	-3.57	94.0	-8.98	AV	150.00	100	Horizontal	Pass
2	4961.000	50.51	3.36	74.0	-23.49	Peak	138.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	84.99	-3.57	114.0	10.99	Peak	144.00	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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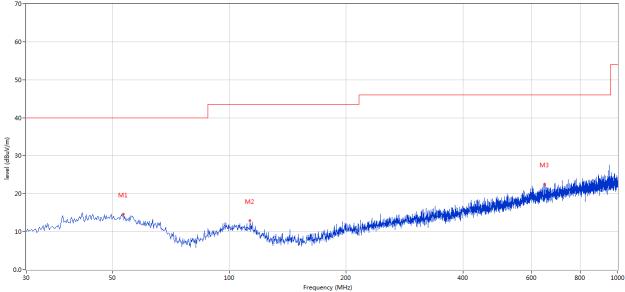
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	53.274	14.67	-11.51	40.0	-25.33	Peak	360.00	100	Horizontal	Pass
2	112.914	12.89	-14.01	43.5	-30.61	Peak	336.00	100	Horizontal	Pass
3	647.736	22.55	-4.61	46.0	-23.45	Peak	319.00	100	Horizontal	Pass

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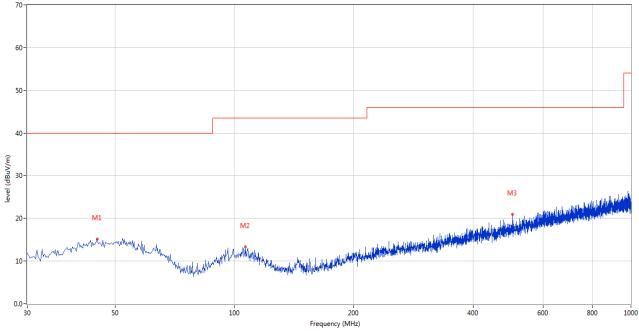
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	45.031	15.16	-11.41	40.0	-24.84	Peak	91.00	100	Vertical	Pass
2	106.368	13.28	-13.34	43.5	-30.22	Peak	0.00	100	Vertical	Pass
3	502.757	20.95	-6.97	46.0	-25.05	Peak	115.00	100	Vertical	Pass

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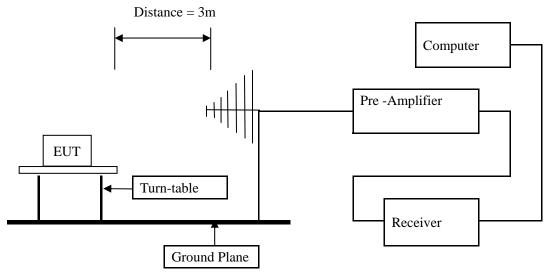


7. Band Edge

7.1 Test Method and test Procedure:

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

7.2 Radiated Test Setup



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

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least

50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

Р	roduct:	TRUE W	IRELES	SS STEREO	EARBUDS	Pola	arity		Horizonta	al
	Mode		Keepin	g Transmittir	ng	Test V	/oltage		DC3.7V	r
Ten	90- 80- 70- 60- 50- 40-	2	4 deg. C,		Hum	nidity		56% RH	[
Tes	st Result:			Pass		-				
C Part 15 1.0E+2		lz -2								
90 80	-									
70										
60									M2	
							M2	a h 🕮		N N
50							ستان اراد آرا . ۹۰ ا		· · ·	Maller
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	- 	endersen her han had been an	alaran birkalan katalar	witalise in the maintain the		ddaadaadaa ah	wis		•	Market Market
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40 30	_	nden and den de de gente	elner Sjochenster (State	philipskin hydros and an Abbi	in the second	idensional and the second	un seinen sei		µ [†] ●	New Workship
40 30 20 10	-	ndstavatelender och som	flan Subdulutut	nijeake anton waardike	u de en la	delender til bester til som til	no s na stanistick (1996) na stanistick (1996)			Market Lake
40 30 20 10	-	ndgenenikon kan kan kan kan kan kan kan kan kan ka	inni kini kini kini kini kini kini kini	nd i spaline dad na inden an an al bha	Frequency		un s un seinen sein			
40 30 20 10 0.0 2	-	Results	Factor	Limit			Table (o)	Height	ANT	
40 30 20 10 0.0 2	350				Frequency	(MHz)				2
40. 30. 20. 10. 20. 20. 20. 20. 20. 20. 20. 20. 20. 2	350 Frequency	Results	Factor	Limit	Frequency Over Limit	(MHz)		Height		2
40 30 20 10	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency Over Limit (dB)	(MHz) Detector	Table (o)	Height (cm)	ANT	22 Verdict

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	Pr	roduct:	TRUE W	IRELES	SS STEREO	EARBUDS	Detec	tor		Vertical	
	N	Mode		Keeping	g Transmitti	ng	Test Vol	tage	Ι	DC3.7V	
Т	`em	nperature		24	4 deg. C,		Humid	lity	5	6% RH	
Т	ſest	t Result:			Pass						
CC Part 1.0E		Class B 1GHz-18GHz	-2								
	90-									M1	
	80-									\wedge	
	_									/	
	70-										
	60-								M2	-	
	50-							MB			
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	40- 30- 20-		all second lange the second	ululantlutavalt	High Insert of the strategy and the	nder och som her standarder som	aland sugarand				Kalena an filipe
	40- 30-	hin undefinden om hen verste som hen s Som hen som hen	alanna dalan dala dala dala dala dala da	alalan latasaki	Vigethanne den en freidlich	ngi Lidy yang kadalah dalam katalah d	gh an hansarand				Haddina and the
	40- 30- 20-	50	****	ululant luteralt	Handban in rendeling	Frequency (MHZ	ghipagin sugar para di				2410
	40- 30- 20- 10- 235		Booulito	Ecctor		Frequency (MHz					1
	40- 30- 20- 10- 235	Frequency	Results	Factor		Over Limit	Detector	Table (o)	Height	ANT	1
No.	40- 30- 20- 10- 235	Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	Over Limit (dB)	Detector		(cm)		Verdict
	40-	Frequency				Over Limit		Table (o) 217.00 217.00	-	ANT Vertical Vertical	2410 Verdict Pass Pass

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	Pre	roduct:	TRUE W	IRELES	S STEREO	EARBUDS	Polarit	ty		Horizontal		
	N	Mode		Keeping	g Transmitti	ng	Test Volt	tage	DC3.7V			
,	Tem	nperature		24	4 deg. C,		Humidi	ity	56% RH			
	Test	t Result:			Pass							
	Part 15C .0E+2-□	Class B 1GHz-18GHz	-2									
-	90-			/	\frown							
	80-				-							
	70-											
				All and a second se								
	60-		Like on the Statistics			M2						
(m/	60- 50-					M21	Martina da Ilantina da II no da	•hu.u.i.u.i.				
el (dBuV/m)	60- 50- 40-	landari da Martin da sa karaka sa karak		•		M ²	the folgher was following			estadaillari,fölkedenedijerindra	hill all all the feat	
level (dBuV/m)		in the second		* 		N 2 Validitation	the dely develop of all year	telenen in sie er ster sons	andro for and hand he had	raturkailan artadorrailanaila	hadh ang a labin ng bang	
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level (dBuV/m)	40- 30-	neganisk filling for a standarski		• 			tik delakerainasi dilanda	and an and a second	indonis i oralgali fosiat	allandailkar getigeden eiligen die	hal man industry had	
level (dBuV/m)	40- 30- 20- 10-	ungan da shiki ki da kun kan kun ka ku					ele del deservate d'altra de	144444.14547.45647.6647.	andar fra sealanti da fra	allað aðlað setter fra diga setter fra setter s		
level (dbuV/m)	40- 30- 20-					2483.5 Frequency (MHz)	the delateration of Alberta	14-14-16-16-16-16-16-16-16-16-16-16-16-16-16-	an ha sa	ndendenden gestenden en gestenden den gestenden den gestenden den gestenden den gestenden den gestenden den ge	2500	
level (dBuV/m)	40- 30- 20- 10- 0.0- 2470		Results	Factor	Limit	2483.5	Detector	Table (o)	Height	ANT		
	40- 30- 20- 10- 0.0- 2470	70		Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz)					2500	
	40- 30- 20- 10- 0.0- 2470 O.	70 Frequency	Results			2483.5 Frequency (MHz) Over Limit			Height		2500	

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	Product:	TRUE W	IRELES	S STEREO	EARBUDS	Detecto	or		Vertical		
	Mode		Keeping	g Transmitti	ng	Test Volt	age	DC3.7V			
,	Temperature		24	l deg. C,		Humidi	ity	56% RH			
	Test Result:			Pass							
	Part 15C Class B 1GHz-18GHz .0E+2-	-2									
	90-										
				\frown							
	80-		/								
	70-		-+	-							
	60-				• · · ·						
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_	50- 40- 30- 20- 10- 0.0- 2470	Results	Factor	Limit	2483.5		Table (o)	Height	ANT	2500	
	50- 40- 30- 20- 10- 0.0- 2470	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz)					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 Chip antenna. The antenna gain is 2.73dBi Max. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidt	th Measurem	ent								
GFSK Modulation	ı									
Product:	TRUE WIF	RELESS STE	REO EARB	UDS	Te	st Mode:		Keep trar	nsmitting	
Mode	K	Leeping Trans	mitting		Test Voltage		DC3.7V			
Temperature	24 deg. C,					umidity		56%	RH	
Test Result:		Pass			Γ	Detector		P	K	
20dB Bandwidth	817.64kHz								-	
Ref Lvl 10 dBm	Mar ndB BW	ker 1 [T1 20 817.63523	0.00 dB	VI	BW BW WT	30 kl 100 kl 8.5 m	Hz	F Att nit	20 dB dBm	
10 dBm	BW	81/.0352	7054 KHZ	51	V T		3 01		ава	1
0			1			▼1	[T1]	-1 2.40199	.26 dBm 699 GHz	A
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m		ndB BW ⊽⊤1	81 [T1]	20 17.63527 -21		
-10				<u>`</u> ,	Y		[T1]	2.40158	.45 dBm 818 GHz .59 dBm	
-20								2.40240	581 GHz	1MA
- 30							Y.			
-50	$\mathcal{M}$						<u> </u>	~		
-60	V						V	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Whangen	
-70										
- 80										
-90 Center 2.	402 GHz		300	kHz/				Spa	an 3 MHz	Į
Date: 26	.APR.2021	19:29:03	3							

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GFSK Modula	tion									
Product:	TRUE	VIRELES	SS STERE	O EARBU	JDS	Test Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting	, ,	Fest Voltage	;	DC3.7V		
Temperature		24 deg. C,				Humidity		56%	% RH	
Test Result:			Pass			Detector		l	PK	
20dB Bandwidth	817.64kHz									
Ref Lvl		Marker ndB	1 [T1 r. 20.	IdB] 00 dB	RBW VBW			F Att	20 dB	
10 dBm	1	BW 817	.635270	54 kHz	SWT	8.5 m	s Ui	nit	dBm	1
0				1		▼1	[T1]	-1 2.44099	.72 dBm 699 GHz	А
				^	m	ndE BW ♥ _T T	8 81 [T1]	20 7.63527 -21	.00 dB 054 kHz .93 dBm	
-10			T1		Ŋ	√ _{T2} ∇ _{T2}		2.44058		
-20			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			- Cy		2.44140	581 GHz	1MA
-30		<u>ک</u> م	1				Y			
-40	$\mathcal{M}$	/					ή	my.		
-50	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	}					<u>\</u>	hun	many	
-60										
-70										
-80										
-90 Center 2	.441 GH	z		300	kHz/			Spa	in 3 MHz	
Date: 26	5.APR.20	)21 19	:32:25							

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Mode	TRUE WIRELESS STEREO EARBUDS					Test Mode:		Keep transmitting		
moue		Keepin	g Transmi	tting	,	Fest Voltage	e	DC3.7V		
Temperature		24 deg. C,				Humidity		56% RH		
Test Result:			Pass			Detector		РК		
OdB Bandwidth	817.64kHz									
		Marker	1 [T1 n	dB]	RBW	30 k	Hz RI	F Att	20 dB	
🛿 Ref Lvl		ndB		00 dB	VBW					
10 dBm		BW 817	7.635270	54 kHz	SWT	8.5 m	ls Ur	nit	dBn	n 
10						▼1	[T1]	-2	.49 dBm	A
0				1				2.47999	699 GHz	
0						ndE BW	81	20 7.63527	.00 dB 054 kHz	
-10				$\sim$	M	⊳ Sw	01 [T1]	-22	1.89  dBm	
-10				$\int$	L L			2.47958	818 GHz	
2.0				$\mathcal{S}$	٦	$\nabla_{T2}$	2 [T1]	-22	.14 dBm	1
-20			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			The second secon		2.48040	581 GHz	1MA
-30			/				<u></u>			
-40	m	~					h.	m		
-50	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\checkmark$						- Ju		
-60									maly	
-70										
-80										
-90 Center 2	4.9	_		300	/			0	ın 3 MHz	ļ

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Product:	TRUE WIRELESS STEREO EARBUDS					Test Mode:		Keep transmitting			
Mode		Keepin	g Transmi	tting		Tes	st Voltage	DC3.7V			
Temperature		2	4 deg. C,			Humidity		56% RH			
Test Result:	Pass				Ι	Detector		РК			
)dB Bandwidth	1.257MHz										
		Marker	1 [T1 r	ndB]	R	B₩	30 kH:	z RI	F Att	20 dB	
Ref Lvl		ndB	20.	.00 dB	V	B₩	100 kH:	Z			
10 dBm		BW 1	1.256513	303 MHz	S	WT	8.5 ms	Ur	nit	dBm	ı
10							▼1 [	T1]	-1	.30 dBm	A
				1					2.40199	699 GHz	
0							ndB		20	.00 dB	
				/ /	$\backslash \land$		BW ▼T1	[T1]	1.25651	303 MHz .29 dBm	
-10			$\sim$	$\mathcal{N}$		$\sim$	m 1	[ + + ]	2.40137	.29 GBm 174 GHz	
		en 1	$\checkmark$					[T1]	-21	.21 dBm	
-20		7	-						2.40262	826 GHz	1M7
-30											
-40	~/	m						$\nabla$	$\sim$		
-50										mand	
-60											
-70											
-80											
-90 Center 2	.402 GH	Iz		300	kHz/				Spa	n 3 MHz	

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Product:	TRUE WIRELESS STEREO EARBUDS					Test Mode:			Keep transmitting		
Mode		Keepir	ıg Transmi	tting		Te	est Voltage	DC3.7V			
Temperature		2	4 deg. C,			Humidity		56% RH			
Test Result:	Pass					Detector		РК			
dB Bandwidth	1.257MHz										
k de la constanción de		Marker	1 [T1 r	ndB]	R	BW	30 kH	z RI	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	v	ΒW	100 kH	z			
10 dBm		BW	1.256513	303 MHz	S	WT	8.5 ms	Uı	nit	dBm	ı
10							▼1 [	T1]	-1	.75 dBm	A
				1					2.44099	699 GHz	
0							ndB		20	.00 dB	
				$  \wedge  $	$\land \land$		BW VT1	[T1]	1.25651	303  MHz	
-10			m	$\mathcal{N}$		~	m	[ ] ]	2.44037	174 GHz	
								[T1]	-21	.62 dBm	
-20		7	1					1	2.44162	826 GHz	1MA
							`				IMA
-30											
-40	$\sim$	$\sim$						M	Λ		
-50								`	~~~~~"		
-60											
-70											
-80											
-90 Center 2	.441 GH	Hz		300	kHz/				Spa	n 3 MHz	

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Product:	TRUE	WIRELE	ESS STERE	EO EARBU	JDS	Т	est Mode:		Keep tra	ansmitting	
Mode		Keepi	ng Transmi	tting		Test Voltage Humidity		DC3.7V 56% RH			
Temperature			24 deg. C,								
Test Result:	Pass					Detector		РК			
dB Bandwidth	1.257MHz										
		Marker	1 [T1 r	ndB]	F	RBW	30 kHz	z RI	F Att	20 dB	
Ref Lvl		ndB	20.	.00 dB	7	/BW	100 kHz	Z			
10 dBm		BW	1.256513	303 MHz	01	SWT	8.5 ms	Ur	nit	dBm	L
10							▼1 ['	T1]	-2	.49 dBm	A
									2.47999	699 GHz	
0							ndB		20	.00 dB	
				$  \land  $	$\land$		BW ⊽⊤1	[T1]	1.25651	303  MHz	
-10					$\forall$	2	m		2.47937	174 GHz	
			$\int$				√72	[T1]	-22	.44 dBm	
-20									2.48062	826 GHz	1M2
		( [/]									111
- 30											
-40											
\.		$\sim$						VY	$\sim$		
-50	Num L									<b>M</b> .	
mum									w.	Jun	
-60											
-70											
-80											
-90 Center 2	40 07			200	1-17- 4	,			<b>C</b>		l
Center 2	.40 GH	<u>ک</u>		300	лп2/				spa	n 3 MHz	

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Product:	TRUE	TRUE WIRELESS STEREO EARBUDS					st Mode:		Keep transmitting			
Mode		Keepin	g Transmi	tting		Tes	st Voltage		DC3.7V			
Temperature		2	4 deg. C,			Humidity			56% RH			
Test Result:	Pass				Γ	Detector		РК				
DdB Bandwidth	1.257MHz											
		Marker	1 [T1 r	ndB]	RI	BW	30 kH	z RI	F Att	20 dB		
Ref Lvl		ndB	20.	00 dB	VI	BW	100 kH	z				
10 dBm		BW 1	L.256513	803 MHz	SI	ΥW	8.5 ms	U	nit	dBm	ı	
10							<b>v</b> 1	[T1]	-1	.25 dBm	A	
0				1					2.40199	699 GHz		
0							ndB BW		20 1.25651	.00 dB 303 MHz		
1.0			~		$\backslash \land$	C		[T1]	-21	303 MHz .15 dBm		
-10			M	$\sim$		$\sim$	m		2.40137	174 GHz		
		т	$\checkmark$				רע ע גע	2 ^[T1]	-21	.11 dBm		
-20		Y							2.40262	826 GHz	1 <b>M</b> A	
-30												
-40	$\sim$	$\sim$							$\wedge$			
-50	~~~ ~									m		
-60												
-70												
-80												
-90 Center 2	.402 GH	Iz		300	kHz/				Spa	n 3 MHz		

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Product: Mode Temperature Test Result: 20dB Bandwidth	Keepin		U EAKBU	DS	Test Mode:		Keep transmitting			
Temperature Test Result:		TRUE WIRELESS STEREO EARBUDS Keeping Transmitting					DC3.7V			
Test Result:			ung		Test Voltage		56% RH			
	24 deg. C, Pass 1.257MHz				Humidity					
UdB Bandwidth					Detector		РК			
	1.									
A state		1 [T1 n		RBW			F Att	20 dB		
Ref Lvl	ndB		00 dB	VBW						
10 dBm	BW 1	L.256513	03 MHz	SWT	8.5 m	s Ur	nit	dBm		
					▼1	[T1]	-1	.73 dBm	A	
			1				2.44099	699 GHz		
0			Ň		ndB		20	.00 dB		
			$\wedge$ /	$\backslash \cap$	BW		1.25651	303 MHz		
-10			$\sqrt{\sqrt{1}}$	$\checkmark$		[T1]	-21	.66 dBm		
			,-			[T1]	2.44037	174 GHz .67 dBm		
-20	T	~				[11] [2	2.44162	826 GHz		
1MAX	<u>م</u>						2.11102		<b>1MA</b>	
-30										
-40						$\rightarrow$				
5.0	m					VY	M .			
-50							~~~~	man		
-60										
-70										
-80										
-90 Center 2.	.441 GHz		300 }	<hz <="" td=""><td></td><td></td><td>Spa</td><td>n 3 MHz</td><td>ļ</td></hz>			Spa	n 3 MHz	ļ	

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Product:	TRUE WIRELESS STEREO EARBUDS Keeping Transmitting 24 deg. C, Pass 1.257MHz					Test Mode:			Keep transmitting			
Mode						Te	Test Voltage Humidity Detector		DC3.7V 56% RH PK			
Temperature						]						
Test Result:												
DdB Bandwidth												
Ŕ		Marker	1 [T1 n	ldB]	F	RBW	30 kH	z RI	F Att	20 dB		
🚺 Ref Lvl		ndB		00 dB	7	/BW	100 kH					
10 dBm		BW	1.256513	03 MHz	5	SWT	8.5 ms	Uı	nit	dBm	1	
10							▼1 [	T1]	-2	.51 dBm	A	
0									2.47999	699 GHz		
							ndB BW		20	.00 dB 303 MHz		
-10					$\backslash \cap$		v _{T1}	[T1]	-22	.49 dBm		
-10			~~~	$\sim$	V	5	m		2.47937	174 GHz		
-20		-						[T1]	-22	.56 dBm	L	
1MAX		گر	7				L V		2.48062	826 GHz	1MA	
- 30												
-40	~.	N						M	. "A			
1 m	um th							,	a fr	May May May		
-60												
-70												
- 80												
-90 Center 2	.48 GH:	Z		300	kHz/	,			Spa	n 3 MHz		

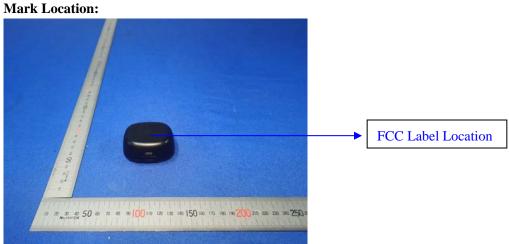
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## 10.0 FCC ID Label

## FCC ID: 2AZBO-N00004

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.



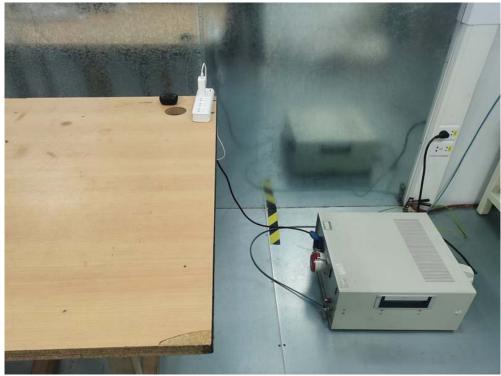
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## 11.0 Photo of testing

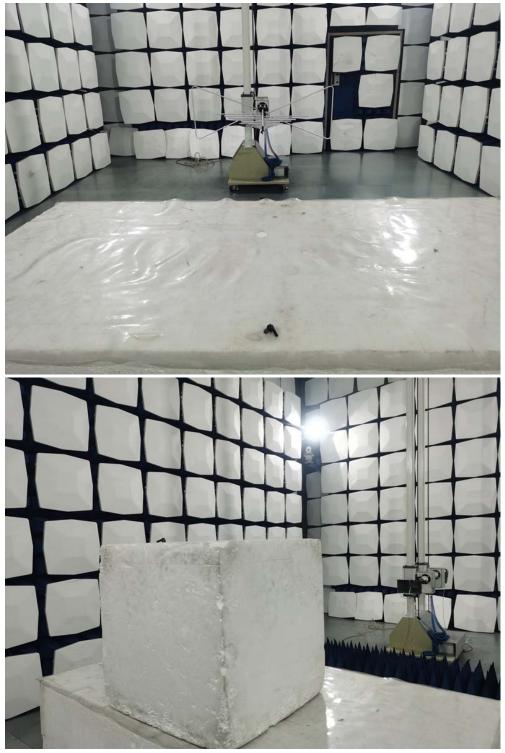
11.1 Conducted test View--



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Radiated emission test view



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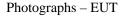


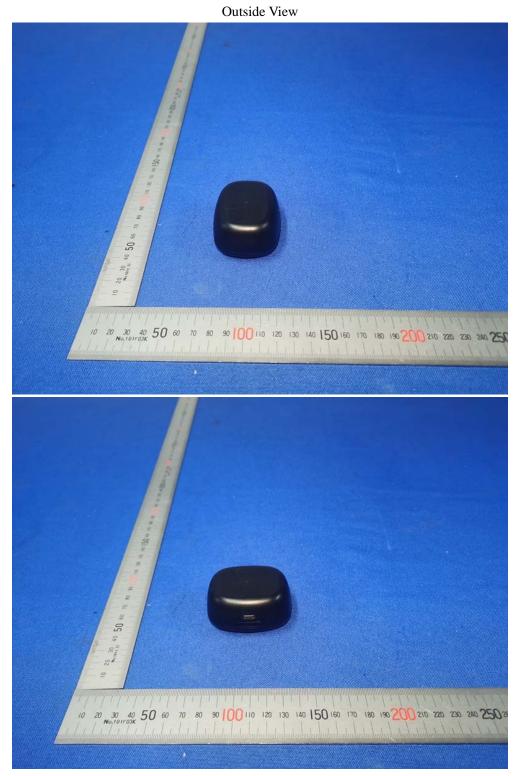
## 11.2 Photographs - EUT



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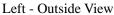


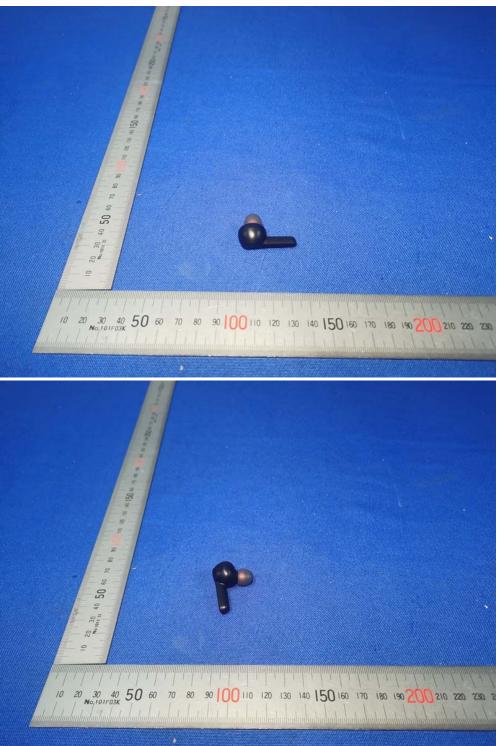


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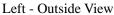


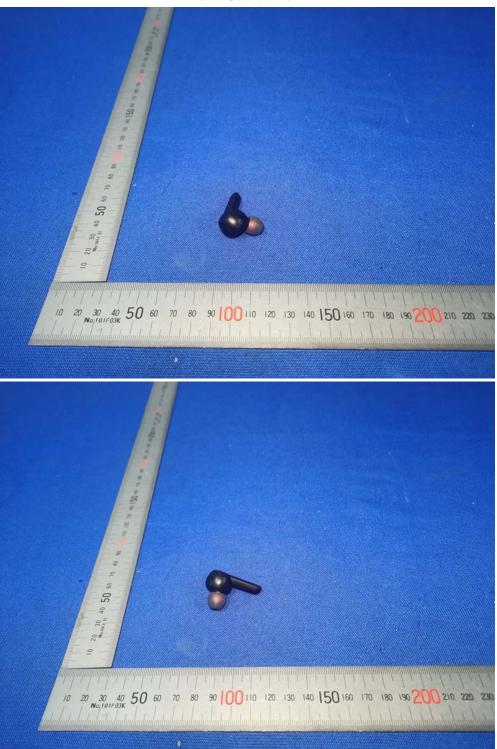


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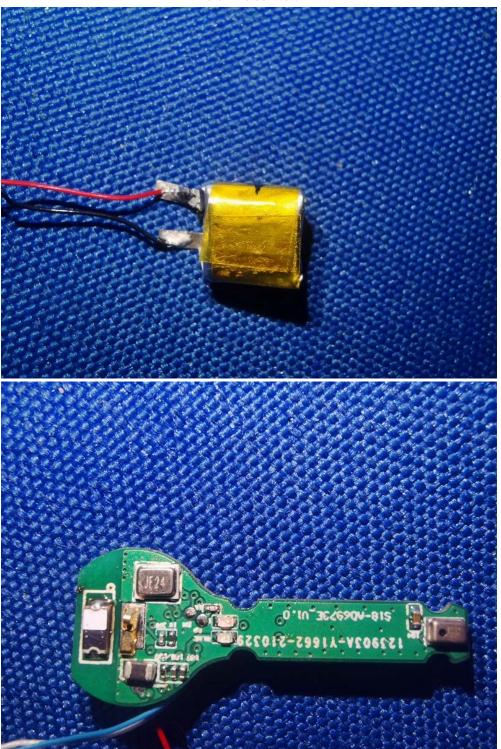


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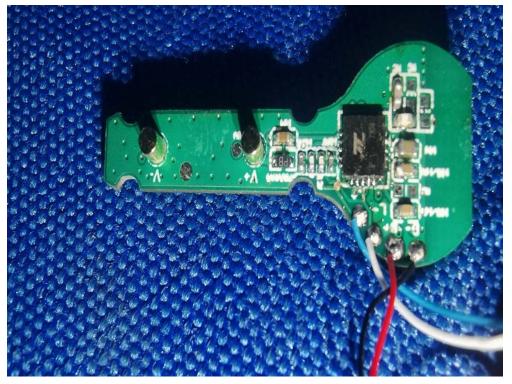




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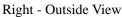


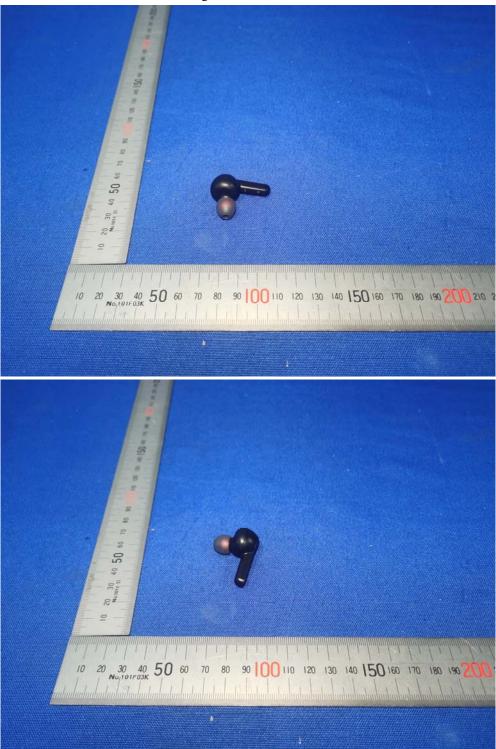
Left - Inside View



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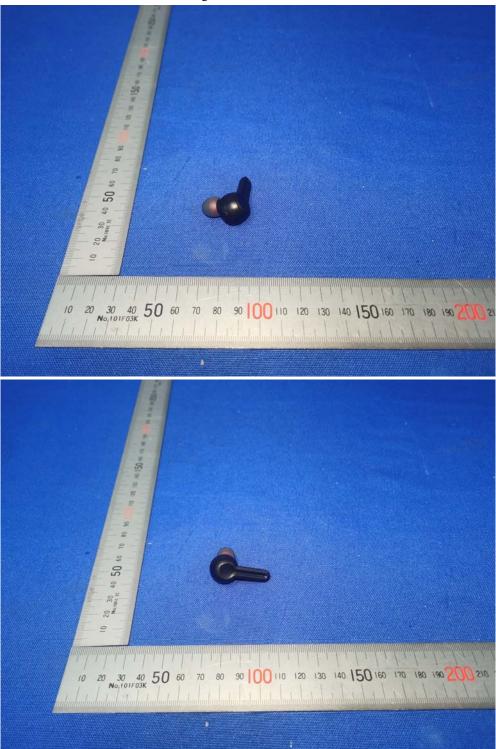


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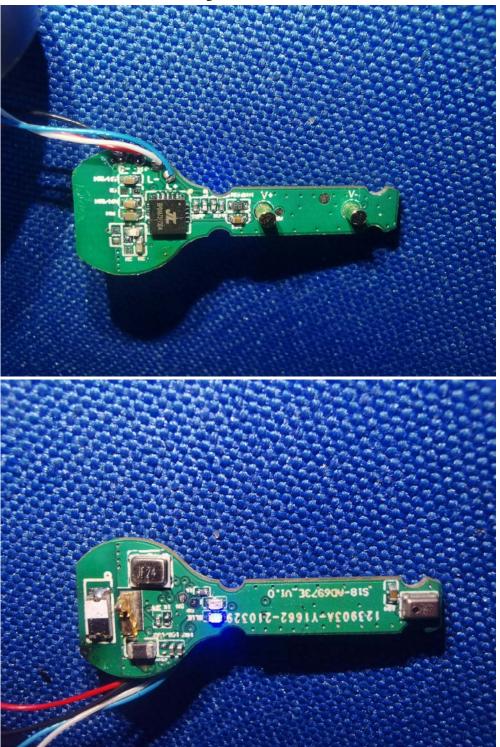


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Right - Inside View



--End of the report--

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