



Report No.: TW2104255E File reference No.: 2021-05-06

Applicant: TECHNOFASHION INC.

Product: TRUE WIRELESS STEREO EARBUDS

Model No.: NTWS04

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

Jack Chung

Jack Chung

Manager

Dated: May 06, 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.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

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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: TECHNOFASHION INC.

Address: 26, Park Street Ste#2340, Montclair, NJ, USA, 07042

Telephone: +1 (347) 510-2340

Fax: --

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: NTWS04
Additional Model Name N/A
Hardware Version: P2.1

Hardware Version: R2.1 Software Version: R1.0

Serial No.: NTWS04202103

Rating: DC5V, 300mA 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 Chip antenna with gain 3.56dBi Max (Get from the antenna specification

provided by the applicant)

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2021-04-19 to 2021-04-30

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	
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

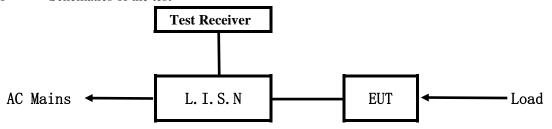
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

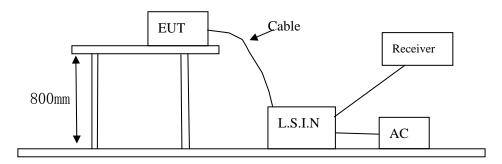


EUT: Equipment Under Test

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.

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
TRUE WIRELESS	TECHNOFASHION INC.	NTWS04	2AZBO-N00006
STEREO EARBUDS	TECHNOPASHION INC.	N1 W 504	2AZDO-N00000

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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 (d	IB μV)
(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)

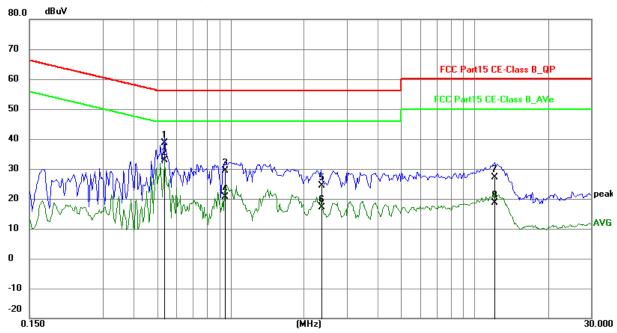
EUT Operating Environment

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

EUT set Condition: Charging and Communication by BT

Model: NTWS04 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	0.5361	28.94	9.77	38.71	56.00	-17.29	QP	Р
2	0.5361	23.13	9.77	32.90	46.00	-13.10	AVG	Р
3	0.9456	19.70	9.79	29.49	56.00	-26.51	QP	Р
4	0.9456	10.82	9.79	20.61	46.00	-25.39	AVG	Р
5	2.3574	14.55	9.82	24.37	56.00	-31.63	QP	Р
6	2.3574	7.33	9.82	17.15	46.00	-28.85	AVG	Р
7	12.0714	16.89	10.25	27.14	60.00	-32.86	QP	Р
8	12.0714	8.49	10.25	18.74	50.00	-31.26	AVG	Р

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

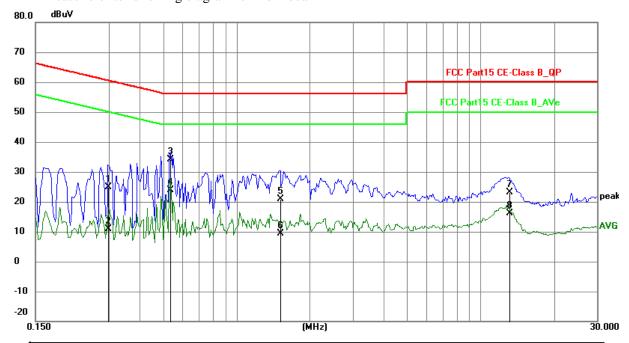
EUT Operating Environment

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

EUT set Condition: Charging and Communication by BT

Model: NTWS04 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	0.2982	15.18	9.76	24.94	60.29	-35.35	QP	Р
2	0.2982	1.01	9.76	10.77	50.29	-39.52	AVG	Р
3	0.5361	24.37	9.77	34.14	56.00	-21.86	QP	Р
4	0.5361	14.21	9.77	23.98	46.00	-22.02	AVG	Р
5	1.5189	11.19	9.80	20.99	56.00	-35.01	QP	Р
6	1.5189	-0.44	9.80	9.36	46.00	-36.64	AVG	Р
7	13.0581	12.94	10.29	23.23	60.00	-36.77	QP	Р
8	13.0581	5.78	10.29	16.07	50.00	-33.93	AVG	Р

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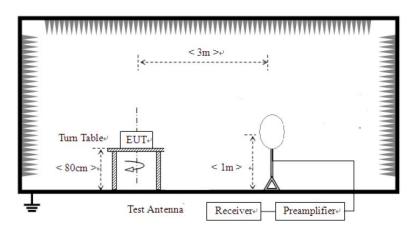


6 Radiated Emission Test

- 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



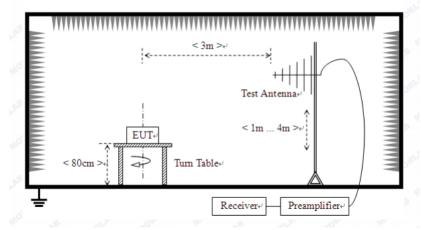
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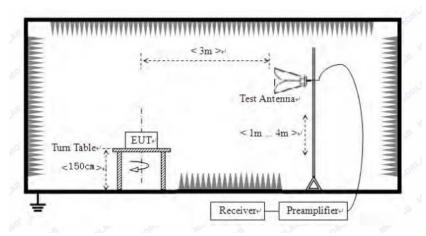
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For radiated emissions from 30MHz to1GHz



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 S	trength of Harmo	onics (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)

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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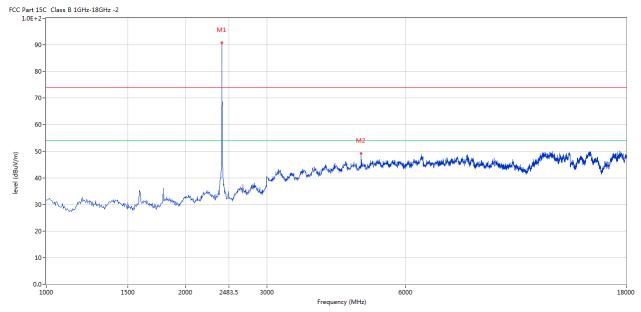


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



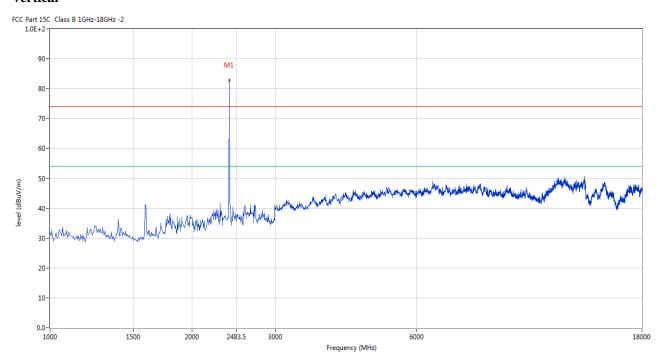
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	90.73	-3.57	114.0	-23.27	Peak	298.00	100	Horizontal	Pass
2	4803.750	49.20	3.13	74.0	-24.80	Peak	283.00	100	Horizontal	Pass

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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	82.90	-3.57	114.0	-31.10	Peak	77.00	100	Vertical	Pass

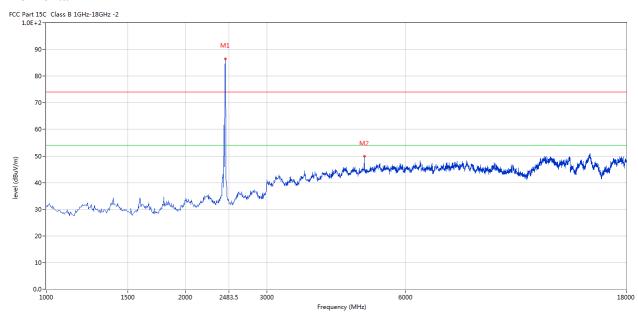
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Please refer to the following test plots for details: High Channel-2441MHz

Horizontal



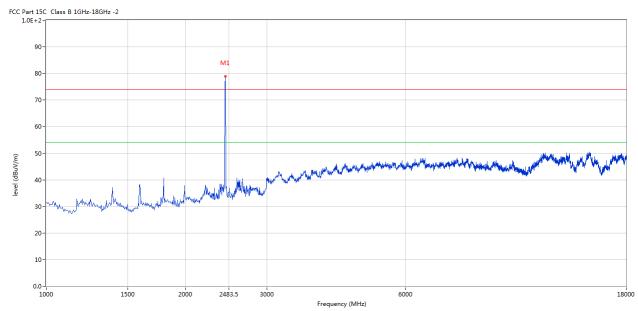
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	86.49	-3.57	114.0	-27.51	Peak	296.00	100	Horizontal	Pass
2	4880.250	49.94	3.20	74.0	-24.06	Peak	341.00	100	Horizontal	Pass

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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	78.98	-3.57	114.0	-35.02	Peak	146.00	100	Vertical	Pass

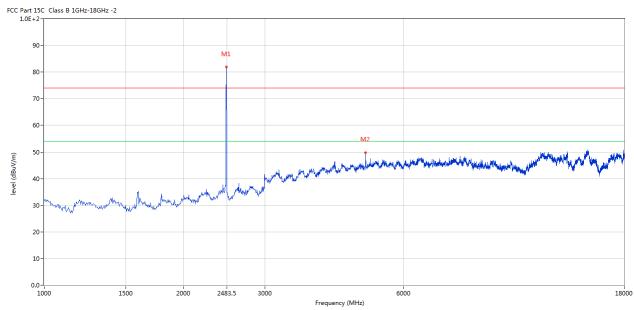
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



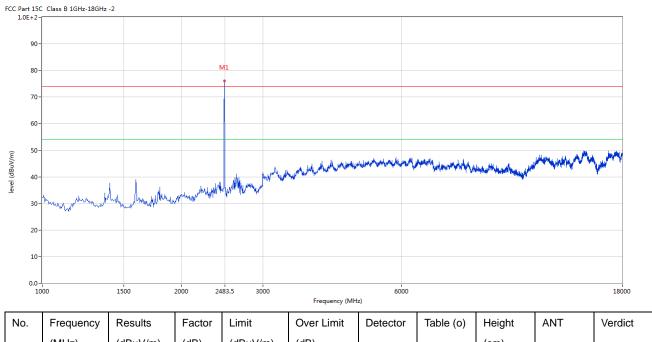
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	81.86	-3.57	114.0	-32.14	Peak	280.00	100	Horizontal	Pass
2	4961.000	49.73	3.36	74.0	-24.27	Peak	359.00	100	Horizontal	Pass

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Vertical



(MHz) (dBuV/m) (dB) (dBuV/m) (dB) (cm) 2479.750 76.11 -3.57 114.0 -37.89 192.00 100 Vertical Peak **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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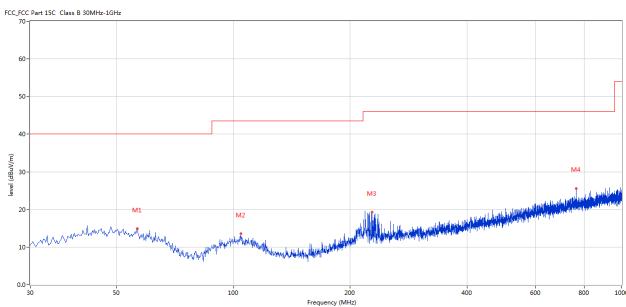


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	56.668	14.87	-12.22	40.0	-25.13	Peak	0.00	100	Horizontal	Pass
2	104.671	13.54	-13.25	43.5	-29.96	Peak	33.00	100	Horizontal	Pass
3	227.346	19.29	-12.79	46.0	-26.71	Peak	81.00	100	Horizontal	Pass
4	763.137	25.57	-3.29	46.0	-20.43	Peak	112.00	100	Horizontal	Pass

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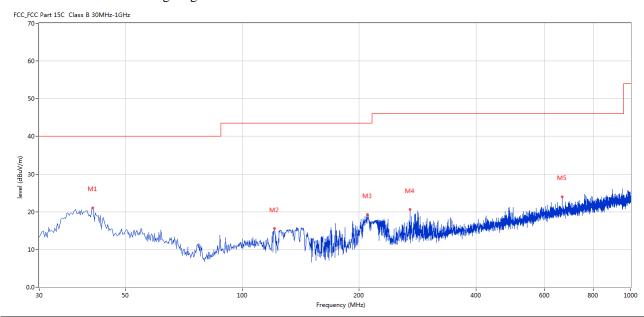


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	41.152	21.01	-12.01	40.0	-18.99	Peak	94.00	100	Vertical	Pass
2	120.915	16.59	-15.54	43.5	-26.91	Peak	33.00	100	Vertical	Pass
3	209.890	19.28	-13.56	43.5	-24.22	Peak	102.00	100	Vertical	Pass
4	270.015	20.58	-11.75	46.0	-25.42	Peak	0.00	100	Vertical	Pass
5	665.434	24.01	-4.47	46.0	-21.99	Peak	41.00	100	Vertical	Pass

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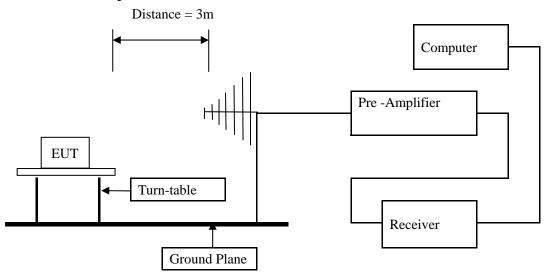


7. Band Edge

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.

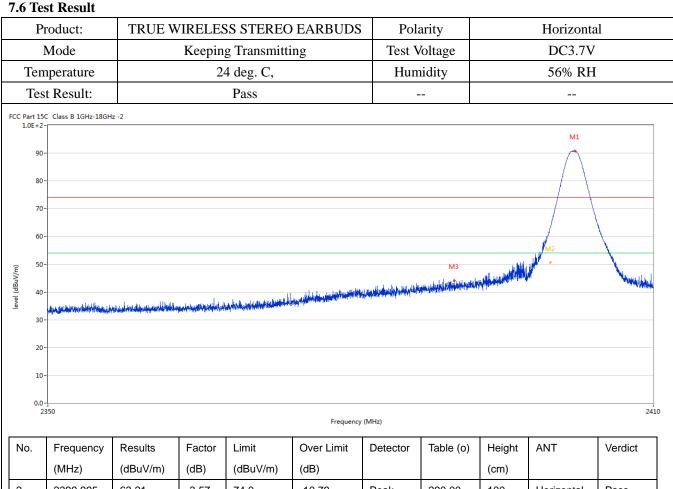
The report refers only to the sample tested and does not apply to the bulk.

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2399.995	63.21	-3.57	74.0	-10.79	Peak	290.00	100	Horizontal	Pass
2**	2399.995	50.75	-3.57	54.0	-3.25	AV	290.00	100	Horizontal	Pass
3	2390.095	44.01	-3.53	74.0	-29.99	Peak	293.00	100	Horizontal	Pass

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P	roduct:	TRUE W	TRELES	S STEREO	EARBUDS	Detec	tor		Vertical	
	Mode		Keeping	g Transmitti	ng	Test Vol	ltage]	DC3.7V	
Ten	nperature		24	4 deg. C,		Humic	lity	4	56% RH	
Tes	st Result:			Pass						
Part 15 1.0E+2	C Class B 1GHz-18GHz	-2								
90									M1	
80-									Λ	
70									/ 	
60								/	-	
								M2		
50							M3			
50							M3 			
50·		elde/ontrollenightenightelphilip	Heavy had been a hour	diplomational and the formation	pallenis jirjekis Lindik (naliidenisi	the desired by the state of the		Hard Harden		Maraking palagada
	Lankay Mahayil salikhasi dalah sarah sibah.	stadonio estando de desperante de la composito	yheasish-ahish-etyhasile	dhiredisadhadad piradh	pullbaylayla bel haldle silet ville	ilk deid var bygdendeleide		HAMILIAN CONTRACTOR		*Negara Kunganda palan
40	handay disposable for the fire of the form	stal na rota, de dependente de constitución de constitución de constitución de constitución de constitución de	ghrasiosaphistoritatorila	d hiredonal and believe and to	pullbania ja ja ka	th deid by a begin being de better	M3			Hagan Kanpanggalan
40· 30·	and a photography and the forest finding.	stad which is a state of the st	abreció in phistoril phosell	d sirenti mellonskih krimoko	polite njënjën kën Lahidë na Pëdensësë	the first transfer the second training		HARRING TO STATE OF THE STATE O		**************************************
30· 20·	kun kaputah kalikun dalah dalah kalikun kaliku	dad onto the delay bear decided to	African Angelor Angelo	d hiradismellasidesimeles	phillipsylvagia light Lindbly Lactivities within	Albert Mary Mary Mary Mary Mary Mary Mary Mary	M3			*Hazarianahadada
30 · 20 · 10 · 0.0	kun kaputah kalikun dalah dalah kalikun kaliku	stad na course de septemble de des	ahrawing diplomate phosphology	distribud <mark>lasikideta</mark>	Frequency (MHz)		M3	hipport of the second of the s		7,7410
40· 30· 20· 10· 0.0· 2		Results	Factor	Assanta de la constitución de la				Height	ANT	2410
40· 30· 20· 10· 0.0· 2	han hay distributed has a state of the state				Frequency (MHz)		Table (o)	Height (cm)		2410
40: 30: 20: 10: 0.0: 2	350 Frequency	Results	Factor	Limit	Frequency (MHz)			_		2410 Verdic
40 · 30 · 20 · 10 · 0.0	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410

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Pr	oduct:	TRUE W	IRELES	S STEREO	EARBUDS	Polari	ty	-	Horizontal	
N	Mode		Keeping	g Transmittii	ng	Test Vol	tage		DC3.7V	
Tem	perature		24	deg. C,		Humid	ity		56% RH	
Test	t Result:			Pass						
C Part 15C 1.0E+2-	Class B 1GHz-18GHz	-2								
90- 80- 70-										
50- 40-	armanistratifikadistikan astrobun	her fill the			The state of the s	had descriptions and while is	Marijas diniku da las gipak a	. Makan padi panjanah propinsi kan pakan d	het Ales kander einstell ansikke ein kill, prik krante	delia medegal yang sebagai
40-	sirang diraphabhaphaidan diraban	ita jil bir in di ka ka dara karan ka			The state of the s	hald darm frederik a mendagisi belgi	the destroyable state I acquisiphed	. Nakapaten periode pe	nya dipandan pina sanjah sanjah sanjah sanjah sanjah sanjah	della seda glapa je karel
40 - 30 - 20 -		itajili shiridi 1962. ku daka kumuni			2483.5		the destination with a side of the activities the	. Programme to the section of the se	pys digas kin pin candid proside cangle, wh _e to cang	2500
30 20 10 247	70	Results	Factor	Limit	2483.5 Frequency (MHz)			Height	Marketinikuskuskuskuskuskuskuskuskuskuskuskuskusk	
40- 30- 20- 10-			Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz)		Table (o)			2500

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	Pr	oduct:	TRUE W	IRELES	S STEREO	EARBUDS	Detect	tor	,	Vertical	
	N	Mode		Keeping	g Transmittir	ng	Test Vol	tage	1	DC3.7V	
7	Гет	perature		24	l deg. C,		Humid	lity	5	56% RH	
,	Test	t Result:			Pass						
	art 15C 0E+2- _F	Class B 1GHz-18GHz	-2								
	90-										
	80-										
	70-										
	60-			-/-	$\overline{}$						
(F	50-										
(dBuV/r	40-			White the same of		1			. 1		
level (dBuV/r		in the state of th	icamitiki dilipidikapina dikapida	Militar Commencer Commence		Marin		rial dicardegratera nylety ket	ydallitelandalanda.da.yka.jewije.da.jewije	ek di dirikan iyok dirikka fiyan iyok	and despitation for
level (dBuV/r	30-	pithology des little de la proprieta de la pro	handidididahkan yakan	iki ne		Mary Mary Mary Control of the Contro		in the state of the second state of the second state of the second second second second second second second se	idallederbeltederbeltedering bedeer	rkikamikanishkanishke katupu	anish ny katalanga
level (dBuV/r		pithological and anti-property and in	tem stellitelitelite serveret en partie	Million Control		A CONTRACTOR OF THE CONTRACTOR	rakelaland, a takka a <mark>m</mark> an	iral dinandragadhaanifdhilikid	alaitean dalah Jaharan 1948, balan	المارية المراجعة المر	with with death of
level (dBuV/r	30-	pildypankladinnunds,octi	handlift of the same of the same	ikine.		And brings light	odeldinde tulika a <mark>n</mark> asa	riod afficional agrada con rigida filosof	olalitele bledt bledt in state of the	the observation of the contract	and the state of t
level (dBuV/m)	20-		handlift bligt gang daybe	William Control		2483.5	od district to the district to	riod afficional agrada con militar fici	oldiffeld bloke bet and bridge	Nikarikaria) krisikleri arizei	2500
level (dBuV/r	30-	70	transitt i i de galante de propieto de la composição de l	Week.				ivol. M. v. v. drag cales avrighted had	oldisel-pholosopea, bester as bester	the industry the first for the first of the	2500
NC	30 20 10 0.0 247		Results	Factor	Limit	2483.5		Table (o)	Height	ANT	2500 Verdict
	30 20 10 0.0 247	70		Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz)					T

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 3.56dBi Max. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidt								
GFSK Modulation	ı			T				
Product:	TRUE WIREL	ESS STEREO	EARBUDS	Test Mode:	F	Keep transm	nitting	
Mode	Keep	ing Transmitti	ng	Test Voltage		DC3.7V	V	
Temperature		24 deg. C,		Humidity		56% RI	H	
Test Result:		Pass		Detector		PK		
20dB Bandwidth		757.51kHz						
Ref Lvl 10 dBm	ndB	1 [T1 ndB 20.00 7.51503006	dB VI	BW 30 k BW 100 k WT 8.5 m	Hz		20 dB dBm	
0			<u>±</u>	▼1	[T1] 2	2.4018226	68 dBm 65 GHz 0 dB	A
-10				BW ▼ _{Tj}	[T1]		06 dBm	
-20		Tl	\	V _{T2}	2 [T1]	2.4015821 -23.8 2.4023396	39 dBm	
1MAX -30		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		V				1MA
-40	\\				\			
-50					~//	~		
-60						ham	~~~~	
,								
-70								
-80								
-90 Center 2.			300 kHz/			Span	3 MHz	
Date: 27.	.APR.2021 1	2:49:31						

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GFSK Modula	tion											
Product:	TRUE	WIRELE	SS STERE	O EARBU	JDS	Γ	est Mode:		Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting		T	est Voltage	DC3.7V				
Temperature		2	4 deg. C,				Humidity		56% RH			
Test Result: Pass			Pass				Detector		PK			
20dB Bandwidth		751.50kHz										
Ŕ		Marker	1 [T1 r	ndB]	F	RBW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB	20.	00 dB	7	/BW	100 k					
10 dBm		BW 751	1.503006	01 kHz	5	SWT	8.5 m	s U	nit	dBm	L	
10							v ₁	[T1]	- (1.62 dBm	A	
				<u>1</u>					2.44081	663 GHz		
0				\	^		ndE	3	20	0.00 dB		
					$\bigvee \setminus$		BW ∇ _{T1}	7! . [T1]	1.50300 -20	601 kHz		
-10							. 11	_ [2.44058			
			т1 ./	V		ly	$_{\mathrm{T2}}$ ∇_{T2}	[T1]	-20	.00 dBm		
-20			7/0				\		2.44133	367 GHz		
1MAX			$\sqrt{}$				h				1MA	
-30							V					
-40	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								m			
-50	,								W	my y		
-60												
-70												
-80												
-90	441 0			300]]=TT== 1	,			G~ -	n 2 MIII-		
Center 2	.441 G			300	KHZ/				Spa	an 3 MHz		
Date: 27	7.APR.2	021 12	2:52:46									

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Product:	TRUE	WIRELES	SS STERE	O EARBU	JDS	T	est Mode:	Keep transmitting			
Mode		Keepin	g Transmi	tting		Te	est Voltage		DC3.7V 56% RH		
Temperature		2	4 deg. C,]	Humidity				
Test Result: Pass						Detector		PK			
20dB Bandwidth	dB Bandwidth 745.49kHz										
₹ A		Marker	1 [T1 n	ndB]	R	BW	30 kI	Iz Rl	7 Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 kH				
10 dBm		BW 745	5.490981	.96 kHz	S	WT	8.5 ms	s Uı	nit	dBm	ı
10							v ₁	[T1]	1	.08 dBm	A
				1					2.47982	265 GHz	
0				/\ ~			ndB		20	.00 dB	
					V \		$oldsymbol{ abla}_{ ext{T1}}$	74	5.49098		
-10							<u> </u>	[T1]	2.47958	.23 dBm 216 GHz	
			T1 V	~		4	$ \begin{bmatrix} 2 & \nabla_{\mathbf{T}2} \end{bmatrix} $	[T1]	-18		
-20			70				V ~		2.48032	766 GHz	
1MAX		/	$\sqrt{}$				4				1M
-30		^						\			
-40	<i></i>							\mathcal{M}	m		
-50									γ.Λ.	manage	
-60											
-70											
-80											
-90 Center 2	.48 GHz	3		300	kHz/		· · · · · · · · · · · · · · · · · · ·		Spa	n 3 MHz	

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Pi/4D-QPSK M	Iodulatio	n									
Product:	TRUE	WIRELES	SS STERE	O EARBU	JDS	Test Mode:	:	Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting		Test Voltage	e	DC3.7V 56% RH			
Temperature		2	4 deg. C,			Humidity					
Test Result:	Pass 1.124MHz					Detector		PK			
20dB Bandwidth											
		Marker	1 [T1 n	ndB]	RB	W 30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB	20.	00 dB	VB						
10 dBm		BW 1	.124248	350 MHz	SW'	Γ 8.5 π	ns Ui	nit	dBm	l	
10						v ₁	[T1]	-3	3.69 dBm	A	
								2.40210	521 GHz	A.	
0					<u></u>	ndI	3	20	0.00 dB		
				$\Lambda \wedge$	/\	BW $\nabla_{\mathbf{T}}$	1 [T1]	1.12424	1850 MHz 3.22 dBm		
-10				 \\	V	* 1.		2.40141			
			$\wedge \wedge$			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 2 [T1]	-24	1.36 dBm		
-20		7	/ 	N		72		2.40253	808 GHz		
1MAX						Ψ,				1MA	
-30							1				
	. ^	\sim						\wedge	_~		
-40	/\/						VV	m	V		
-50											
-60											
-70											
-80											
-90											
Center 2	.402 GF	Iz		300	kHz/	•	•	Spa	an 3 MHz	1	
Date: 27	7.APR.2	021 13	:03:43								

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Product:	TRUE WII	RELESS ST	EREO EARE	BUDS	Tes	st Mode:	Keep transmitting			
Mode	k	Keeping Trai	nsmitting		Tes	t Voltage	DC3.7V 56% RH			
Temperature		24 deg.	. C,		H	umidity				
Test Result:		Pass	3		Detector		PK			
0dB Bandwidth	dB Bandwidth 1.124MHz									
r)	Ma	rker 1 []	[1 ndB]	R	BW	30 kHz	: RI	7 Att	20 dB	
Ref Lvl	ndl	3	20.00 dB	V	BW	100 kHz	:			
10 dBm	BW	1.124	124850 MHz	S	WT	8.5 ms	Ur	nit	dBm	ı
10						▼ 1 [г1]	-1	.64 dBm	A
				1				2.44110	521 GHz	
0			^	, Å		ndB		20	.00 dB	
			$ \wedge $	\mathbb{Z}^{1}		BW $oldsymbol{ abla}_{ ext{T1}}$		1.12424	850 MHz	
-10				+ +		~	[T1]	2.44040	.58 dBm 782 GHz	
					M	Y _{T2}	[T1]	-21	.06 dBm	
-20		<u> </u>	<u> </u>			V 12		2.44153	206 GHz	
1MAX						<u></u>				1M
-30		- -								
		~~				\	4	\wedge	~ ^	
-40							W			
-50										
-60										
-70										
-80										
-90										
Center 2	.441 GHz		300	kHz/				Spa	n 3 MHz	

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Product:	TRUE WIRELE	SS STEREO	O EARBUI	OS T	Test Mode:	Keep transmitting DC3.7V			
Mode	Keepin	g Transmitt	ting	Т	est Voltage				
Temperature	2	4 deg. C,			Humidity	56% RH			
Test Result:					Detector		PK		
0dB Bandwidth									
r)	Marker	1 [T1 no	dB]	RBW	30 kHz	z RF	' Att	20 dB	
Ref Lvl	ndB	20.0	00 dB	VBW	100 kHz	Z			
10 dBm	BW	L.1242485	50 MHz	SWT	8.5 ms	Ur	iit	dBm	ı
10					v ₁ [T1]	- C	.10 dBm	A
				1			2.48010	521 GHz	
0			Λ	\sqrt{N}	ndB		20	.00 dB	
				<i>J</i> \	BW ∇ _{T1}	[T1]	1.12424	850 MHz .27 dBm	
-10		$\wedge \wedge$	/	$\overline{}$	n /		2.47940	782 GHz	
	9	$^{\prime}$ $^{\prime}$ $^{\prime}$ $^{\prime}$	~	\vee	1 22	[T1]	-19	.70 dBm	
-20		<u> </u>			<u> </u>		2.48053	206 GHz	
-30	N								1M
	2000					Ly .	^		
-40						W	W.		
-50									
-60									
-70									
-80									
-90									
Center 2	.48 GHz		300 k	Hz/			Spa	n 3 MHz	

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Product:	TRUE W	/IRELES	SS STERE	O EARBU	JDS	T	est Mode:	e DC3.7V			
Mode		Keepin	g Transmi	tting		To	est Voltage				
Temperature		2	4 deg. C,]	Humidity				
Test Result: Pass					Detector	PK					
0dB Bandwidth 1.166MHz											
Ŕ	M	larker	1 [T1 n	ıdB]	F	RBW	30 kH	z RI	F Att	20 dB	
Ref Lvl		ıdB		00 dB		/BW	100 kH				
10 dBm	В	8W 1	.166332	67 MHz	5	SWT	8.5 ms	Ur	nit	dBm	1
							▼ 1 [T1]	-4	.25 dBm	A
0									2.40197		
				. 7			ndB BW		20 1.16633	.00 dB 267 MHz	
-10				\triangle	Δ		$oldsymbol{ abla}_{ ext{T1}}$	[T1]	-24	.32 dBm	
					5				2.40139	579 GHz	
-20				لم		W	V T2	[T1]	-24	.08 dBm	
1MAX		Z H					153		2.40256	212 GHz	1M
-30							h	ار ا	<u> </u>	$\wedge \wedge$	
-40		√						M 4	1	<i>-</i> \	
-50											
-60											
-70											
-80											
-90 Center 2	.402 GHz	2		300	kHz/	,			Spa	n 3 MHz	

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Product:	TRUE	WIRELES	SS STERE	O EARBU	JDS	T	est Mode:	Meep transmitting DC3.7V 56% RH PK			
Mode		Keepin	g Transmi	tting		Te	est Voltage				
Temperature		2	4 deg. C,]	Humidity				
Test Result:			Pass				Detector				
OdB Bandwidth 1.166MHz											
F		Marker	1 [T1 n	ndB]	R	.BW	30 kH:	z RI	F Att	20 dB	
Ref Lvl		ndB		00 dB		BW	100 kH:				
10 dBm		BW 1	.166332	267 MHz	S	WT	8.5 ms	Uı	nit	dBm	1
							▼1 [T1]	-1	.60 dBm	Α
0				1			7		2.44097		
				Λ			ndB BW		1.16633	.00 dB 267 MHz	
-10							$ abla_{\mathrm{T1}}$	[T1]	-21	.41 dBm	
			\wedge				$\wedge \wedge$		2.44039	579 GHz	
-20		Т		~		8	V V _{T2}	[T1]	-21	.70 dBm	
1MAX			•				Y		2.44156	212 GHz	1M
-30								\a/		^	
-40		W							M	\ ^ا مر	
-50											
-60											
-70											
-80											
-90 Center 2	.441 GH	Iz		300	kHz/				Spa	n 3 MHz	

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Product:	WIRELES	ELESS STEREO EARBUDS			Test Mode:			Keep transmitting			
Mode		Keeping Transmitting 24 deg. C,					Test Voltage Humidity		DC3.7V 56% RH		
Temperature											
Test Result:	Pass 1.166MHz					Detector		PK			
OdB Bandwidth											
		Marker	1 [T1 r	ndB]	F	BW	30 kH	z RI	7 Att	20 dB	
Ref Lvl		ndB		00 dB		BW	100 kH				
10 dBm		BW 1	L.166332	267 MHz	S	WT	8.5 ms	Ur	nit	dBm	1
							▼1 [T1]	- C	.20 dBm	Α
0				1					2.47997		
				$ \wedge \rangle$	ηл		ndB BW		1.16633	.00 dB 267 MHz	
-10					W		$oldsymbol{ abla}_{\mathrm{T1}}$	[T1]	-20	.01 dBm	
				J		\setminus	\sim		2.47939	579 GHz	
-20		T	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Ť	_\dagger\dagge	[T1]	-20	.15 dBm	
1MAX									2.48056	212 GHz	1M2
-30											
-40								\mathcal{M}		\mathcal{N}	
-50											
-60											
-70											
-80											
-90 Center 2) 48 CH	7		300	kHz/				ç n a	n 3 MHz	

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10.0 FCC ID Label

FCC ID: 2AZBO-N00006

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--



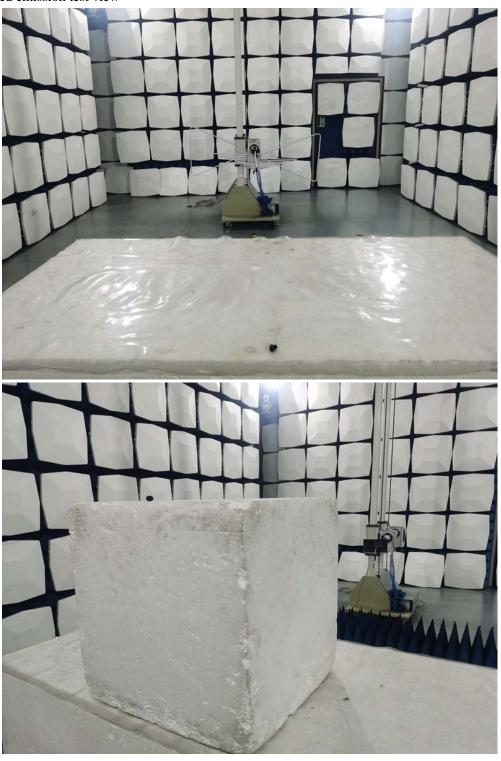
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Radiated emission test view



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11.2 Photographs - EUT

Outside View



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Photographs - EUT

Outside View



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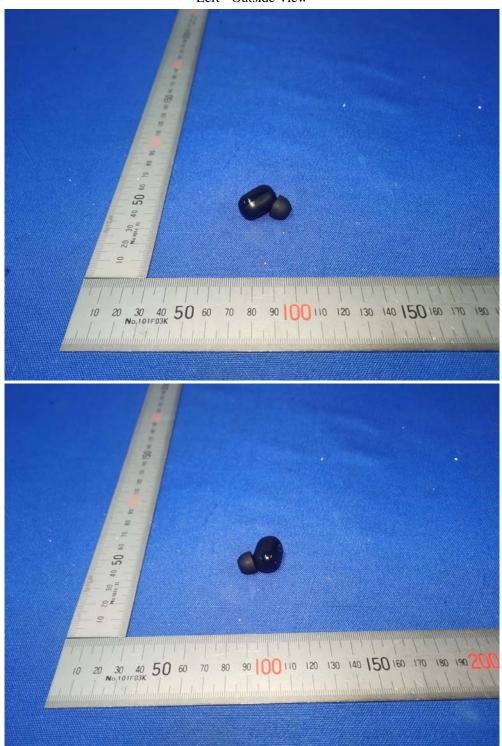
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Left - Outside View



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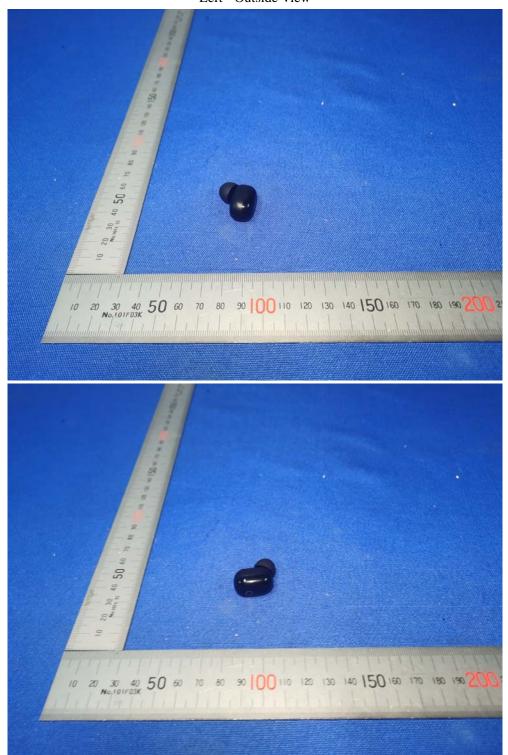
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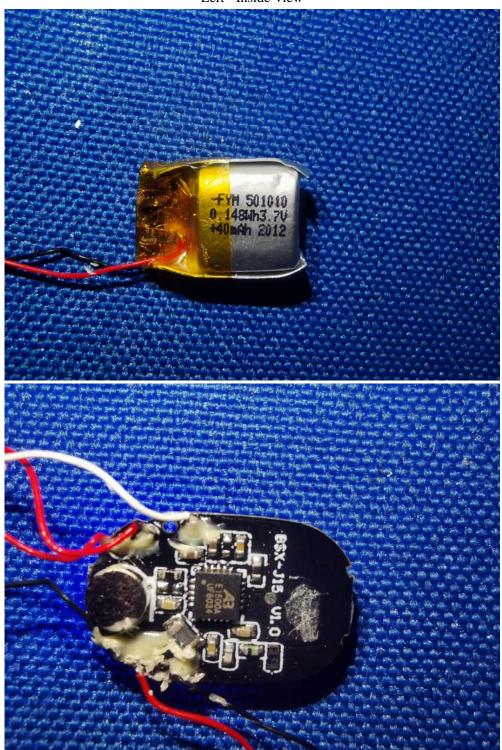
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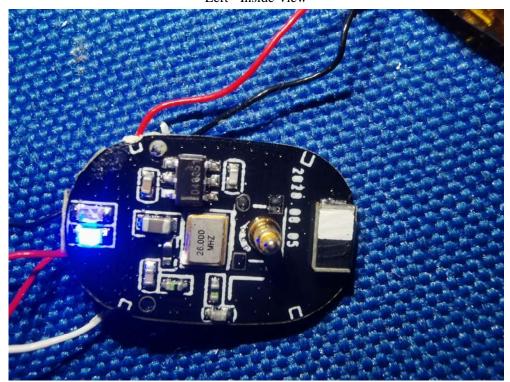
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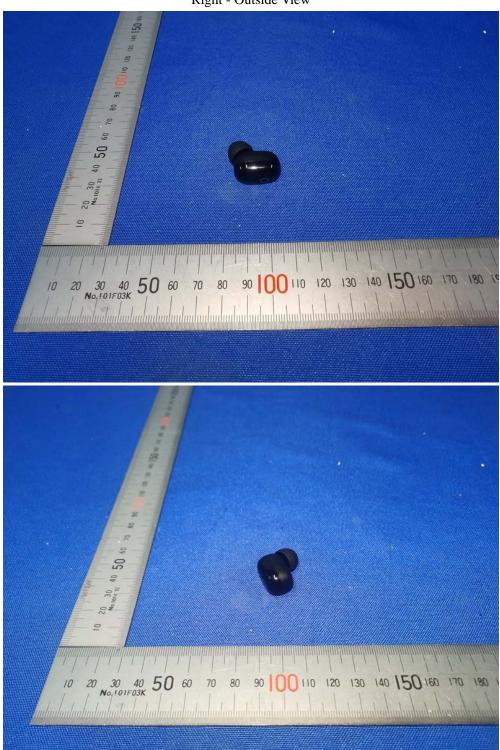
Left - Inside View



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Right - Outside View



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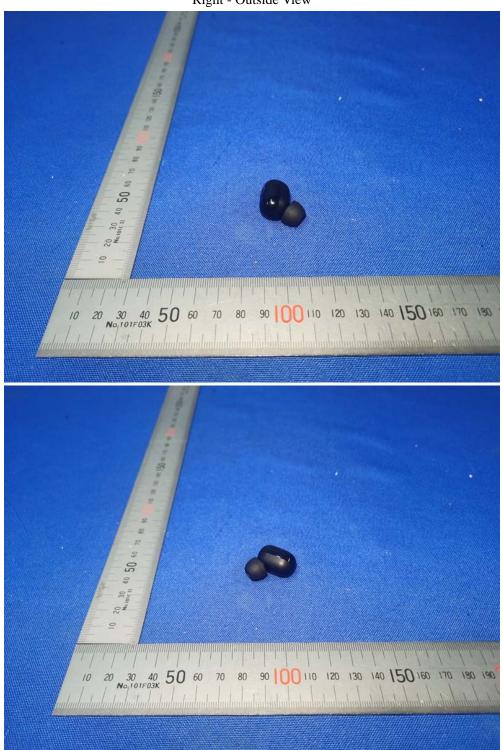
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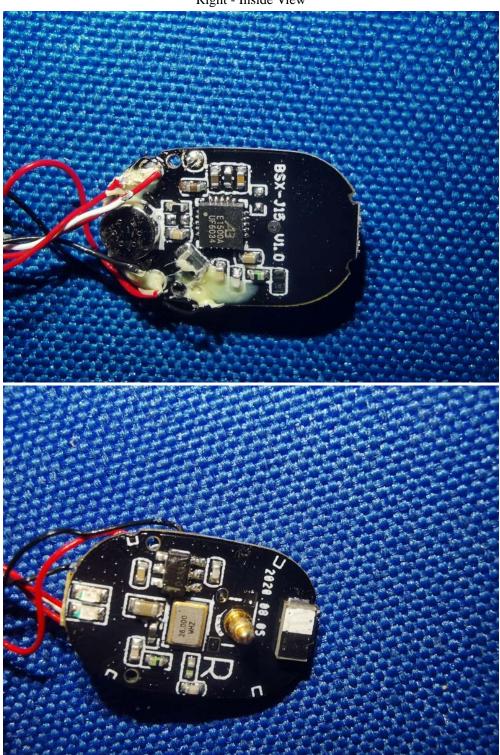
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Right - Inside View



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