



Report No.: TW2104254E File reference No.: 2021-05-06

Applicant: TECHNOFASHION INC.

Product: TRUE WIRELESS STEREO EARBUDS WITH CHARGING

CASE

Model No.: NTWS01

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

Date: 2021-05-06



Test Report Conclusion

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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 WITH CHARGING CASE

Manufacturer: TECHNOFASHION INC.

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

Brand Name: Nautica
Model Number: NTWS01

Additional Model Name N/A

Hardware Version: XL-H33T-83D-V1.0 2021-3-29

Software Version: 83D4-V111 2104191133

Serial No.: NTWS01202103

Rating: DC5V or Built-in DC3.7V, 30mAh, 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 PCB antenna with gain 0.94dBi 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 2021-05-06

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	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		2020-06-23	2021-06-22
KI Cable	Zileligui	M/FA		2020-00-23	2021-00-22
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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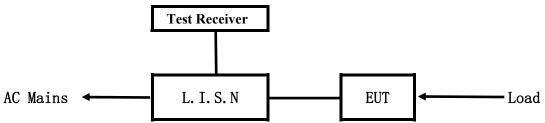
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

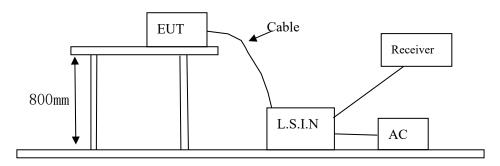


EUT: Equipment Under Test

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			
STEREO EARBUDS	TECHNOFASHION INC.	NTWS01	2AZBO-N00003
WITH CHARGING CASE			

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

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

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

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

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB μ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

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

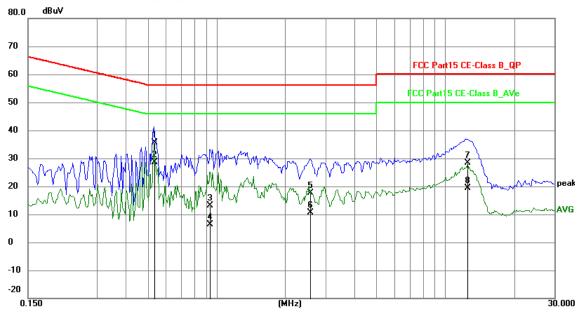
EUT Operating Environment

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

EUT set Condition: Charging and Communication by BT

Model: NTWS01 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	0.5322	25.95	9.77	35.72	56.00	-20.28	QP	Р
2	0.5322	18.85	9.77	28.62	46.00	-17.38	AVG	Р
3	0.9378	3.45	9.79	13.24	56.00	-42.76	QP	Р
4	0.9378	-3.33	9.79	6.46	46.00	-39.54	AVG	Р
5	2.5602	7.76	9.82	17.58	56.00	-38.42	QP	Р
6	2.5602	0.70	9.82	10.52	46.00	-35.48	AVG	Р
7	12.5043	18.01	10.27	28.28	60.00	-31.72	QP	Р
8	12.5043	9.02	10.27	19.29	50.00	-30.71	AVG	Р

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

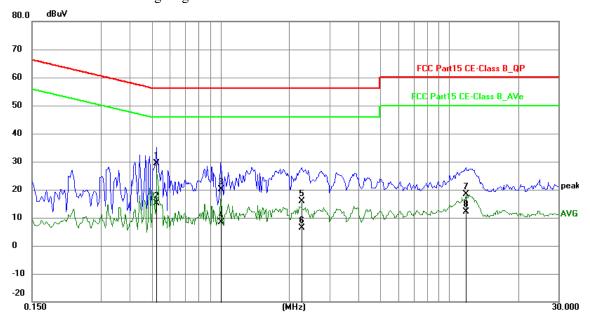
EUT Operating Environment

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

EUT set Condition: Charging and Communication by BT

Model: NTWS01 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	19.60	9.77	29.37	56.00	-26.63	QP	Р
2	0.5243	5.47	9.77	15.24	46.00	-30.76	AVG	Р
3	1.0002	10.27	9.79	20.06	56.00	-35.94	QP	Р
4	1.0002	-1.38	9.79	8.41	46.00	-37.59	AVG	Р
5	2.2677	6.10	9.81	15.91	56.00	-40.09	QP	Р
6	2.2677	-3.34	9.81	6.47	46.00	-39.53	AVG	Р
7	11.8686	8.12	10.24	18.36	60.00	-41.64	QP	Р
8	11.8686	1.84	10.24	12.08	50.00	-37.92	AVG	Р

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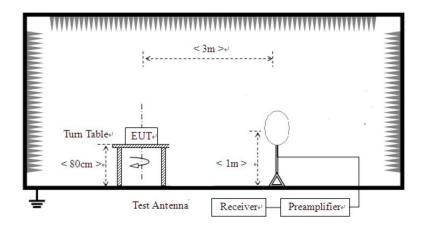


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

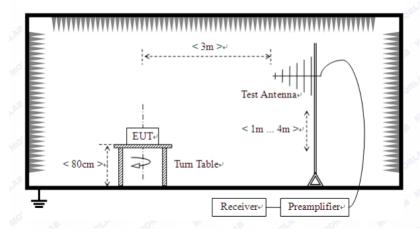
For radiated emissions from 9kHz to 30MHz



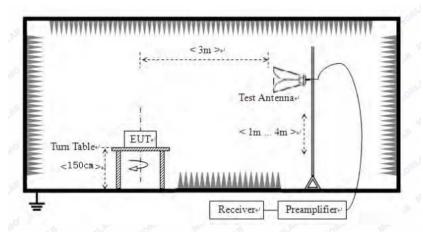
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

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

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

Ī	Fundamental Frequency	Field Strength of Fundamental (3m)			Field S	trength of Harmo	onics (3m)
	(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
Ī	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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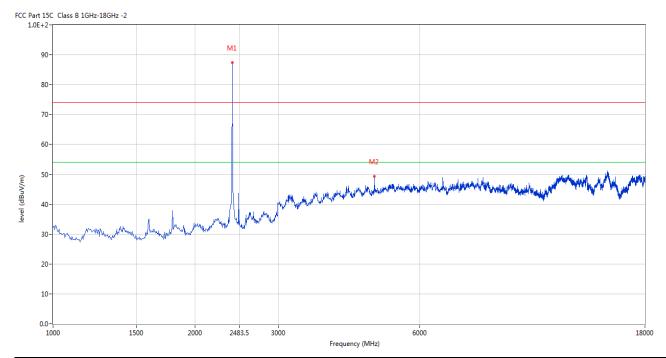


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



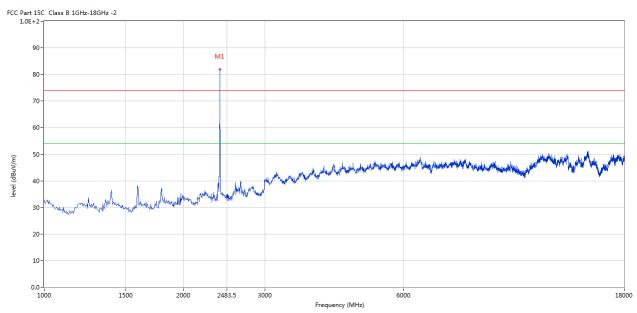
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	87.34	-3.57	114.0	-26.66	Peak	312.00	100	Horizontal	Pass
2	4803.750	49.32	3.13	74.0	-24.68	Peak	287.00	100	Horizontal	Pass

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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	81.84	-3.57	114.0	-32.16	Peak	140.00	100	Vertical	Pass

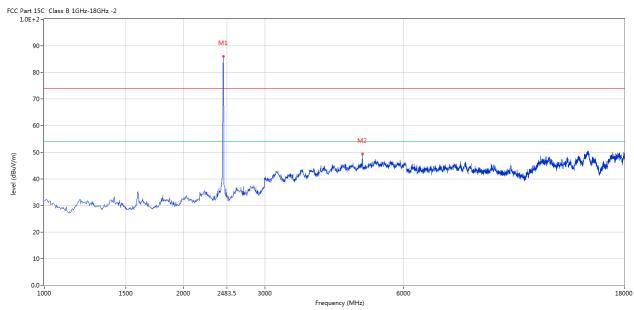
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Please refer to the following test plots for details: High Channel-2441MHz

Horizontal



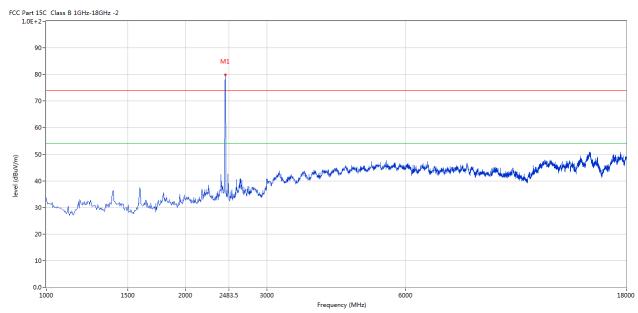
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	86.11	-3.57	114.0	-27.89	Peak	128.00	100	Horizontal	Pass
2	4880.250	49.39	3.20	74.0	-24.61	Peak	134.00	100	Horizontal	Pass

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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	2440.750	79.93	-3.57	114.0	-34.07	Peak	27.00	100	Vertical	Pass

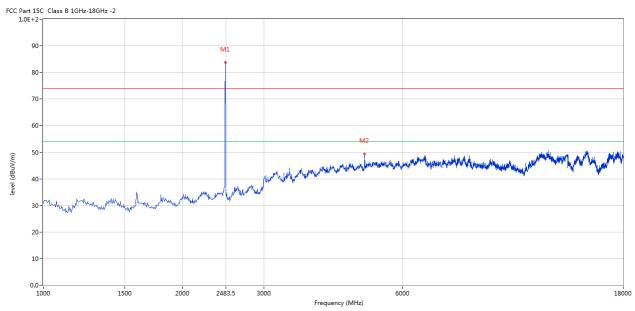
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Please refer to the following test plots for details: High Channel-2480MHz

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	83.78	-3.57	114.0	-30.22	Peak	94.00	100	Horizontal	Pass
2	4961.000	49.41	3.36	74.0	-24.59	Peak	81.00	100	Horizontal	Pass

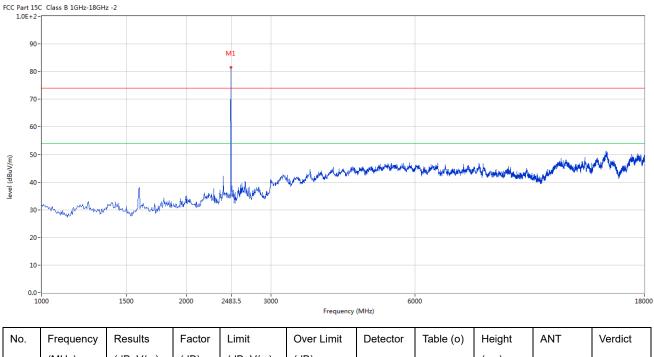
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	81.09	-3.57	114.0	-32.91	Peak	70.00	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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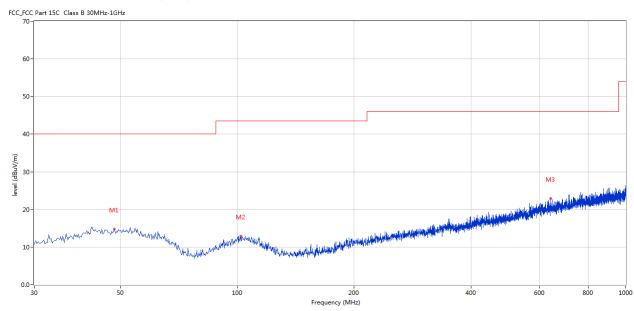


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	48.183	14.81	-11.26	40.0	-25.19	Peak	360.00	100	Horizontal	Pass
2	102.004	12.93	-13.42	43.5	-30.57	Peak	279.00	100	Horizontal	Pass
3	640.947	22.89	-4.74	46.0	-23.11	Peak	302.00	100	Horizontal	Pass

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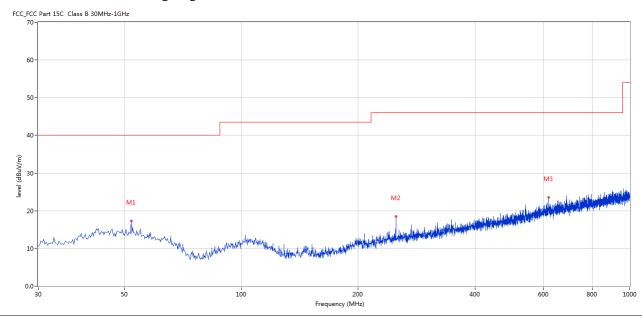


Radiated Emission In Vertical (30MHz----1000MHz)

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	52.062	17.24	-11.43	40.0	-22.76	Peak	65.00	100	Vertical	Pass
2	249.893	18.44	-12.08	46.0	-27.56	Peak	10.00	100	Vertical	Pass
3	619.128	23.53	-4.86	46.0	-22.47	Peak	26.00	100	Vertical	Pass

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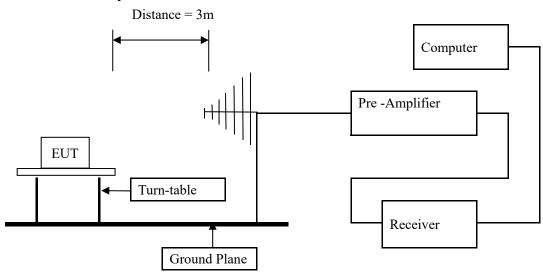


7. Band Edge

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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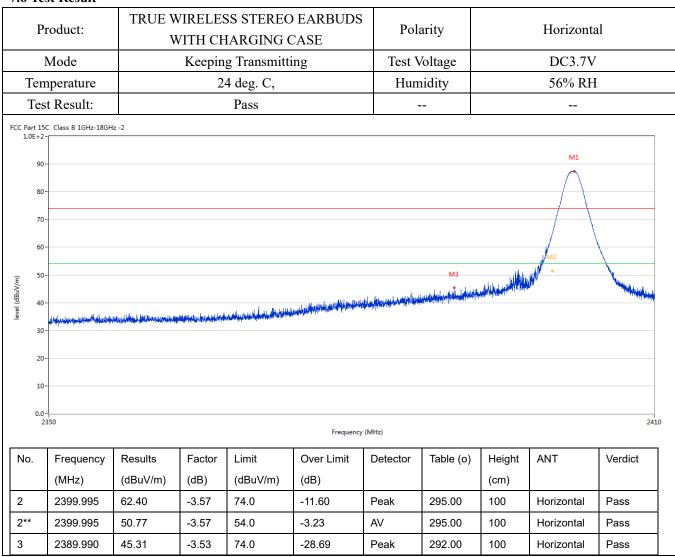
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7.6 Test Result



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Product:	TRUE WIRELESS STEREO EARBUDS WITH CHARGING CASE	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
90- 80- 70-			M1
60-			

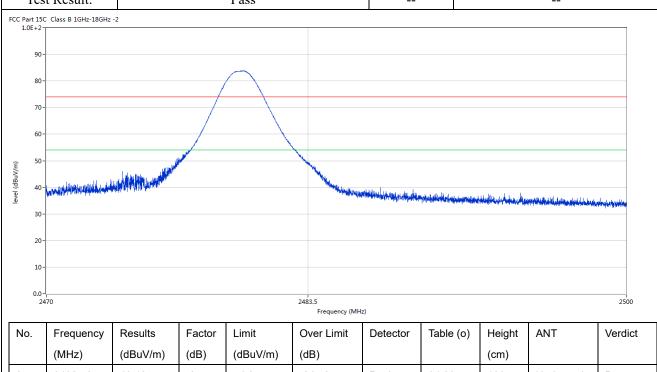
	70-	
	60-	
(m//m)	50-	M3 L. J. dhulak
level (dBuV/m)	40-	The state of the s
_	30-	And refined to blank ettinion rate of the military desired at an enteresting and the contract of the contract
	20-	
	10-	
	0.0-	350 2410
		Frequency (MHz)

No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2399.935	58.10	-3.57	74.0	-15.90	Peak	142.00	100	Vertical	Pass
2**	2399.935	48.76	-3.57	54.0	-5.24	AV	142.00	100	Vertical	Pass
3	2390.050	43.40	-3.53	74.0	-30.60	Peak	103.00	100	Vertical	Pass

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Product:	TRUE WIRELESS STEREO EARBUDS WITH CHARGING CASE	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	1	1
FCC Part 15C Class B 1GHz-18GHz -			



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2483.507	49.42	-3.57	74.0	-24.58	Peak	94.00	100	Horizontal	Pass

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	Product:			S STEREO ARGING C	EARBUDS CASE	Detect	or		Vertical			
	Mode Temperature Test Result: Part 15C Class B 1GHz-18GHz-1.0E+2-90-80-60-60-		Keeping	g Transmitti	ng	Test Vol	tage	DC3.7V				
7	Temperature Test Result: art 15C Class B 1GHz-18GHz -2 0E+2 90- 80-		24	l deg. C,		Humid	ity	4	56% RH			
-	Test Result:			Pass								
		-2					•					
	70-											
(iii/apap) ioan	40- 11-11-11-11-11-11-11-11-11-11-11-11-11	it safet diplote spelling vibrables			No stable below	opposite the state of the state	t same fightly i de glas fift h	dishlikasilasi bidalika	iylandla kusikiikida, dibiyla	h.Juntaryalda		
(III/apgp) (app)	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	ti nati diploma ipi kutu di dibudha d	www.		and a later was	opproduction is to be	i gamen (ngang na dangkan gipa)	rishlikkushlusp ^k erikaliba	indigental production of the state of the st	h.Juntanyah.		
	40- 14-14-14-14-14-14-14-14-14-14-14-14-14-1	it safet diploite spellach eitheadh ai			2483.5 Frequency (MHz)	opposite the state of the state	of Marines Stages And Andrews Stage In	risahih da karibar biraki bel	inipediation of the property of the	2500		
No	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)		Detector	Table (o)	Height (cm)	ANT	2500 Verdict		

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

- 2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 3. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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8.0 Antenna Requirement

Applicable Standard

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

This product has a PCB antenna. The antenna gain is 0.94dBi Max. It fulfills the requirement of this section. Test Result: Pass

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FSK Modulation	TRUE WIRELE	ESS STER	EO EARB	UDS	-	.36.1		TZ :	••	
Product:	WITH C	HARGIN	G CASE		Те	est Mode:	Keep transmitting			
Mode	Keepi	ng Transm	nitting		Te	st Voltage		DC3	5.7V	
Temperature		24 deg. C,				Iumidity		56%		
Test Result:		Pass			I	Detector		P	K	
OdB Bandwidth		781.56kHz						_	_	
Ref Lvl 10 dBm	ndB	1 [T1 r 20. 1.563126	00 dB	VE	3W 3W VT	30 k 100 k 8.5 m	Hz	F Att	20 dB dBr	n
10						V 1	[T1]	-1 2.40199	.08 dBm	A
-10			\mathcal{N}	V,		ndB BW ∇ T1	78 [T1]	20 1.56312 -20	0.00 dB 2625 kHz 0.88 dBm	: <u>n</u>
-20		TA	\mathcal{N}		Y	▼ _{T2}	[T1]	2.40161 -21	824 GHz 1.11 dBm	: n
1MAX						ζ _Λ		2.40233	960 GH2	1M
-40		,					7			
-50								Λ η		
-60	V							4	lahor Langu	4
-70										
-80										
-90 Center 2.4	02 GHz		300	kHz/				Spa	ın 3 MHz	<u>. </u> :

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	TRUE WI	DELEC	C CTEDE	OEVDDI	IDS						
Product:			S STERE ARGING		סטנ	T	est Mode:	Keep transmitting			
Mode			g Transmi			Te	est Voltage	DC3.7V			
Temperature			l deg. C,				Humidity		56%	6 RH	
Test Result:			Pass				Detector		I	PK	
0dB Bandwidth		78	1.56kHz								
Ref Lvl 10 dBm	Ma nd BW	lB	1 [T1 n 20. .563126	00 dB	V	BW BW WT	30 kH 100 kH 8.5 ms	z	? Att	20 dB	ı
10								T1]	-1 2.44099	.55 dBm	A
-10				\int	\bigvee	ч	ndB BW ▼ _{T1}	78 [T1]	20 1.56312 21	.00 dB 625 kHz .35 dBm	
-20			TA/	<i></i>		7	▼ _{T2}	[T1]	2.44061 -21 2.44139	824 GHz.58 dBm980 GHz	
-30							~~~~				1M2
-40							\	لہ			
-50		/							~~~		
								ď	M	Lanker	
-60											
-70											
-80											
-90 Center 2	.441 GHz			300	kHz/				Spa	n 3 MHz	

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GFSK Modula	1			Г							
Product:		ELESS STERE H CHARGING		DS	Te	est Mode:		Keep tra	nsmitting		
Mode	Ke	eeping Transmitting				Test Voltage		DC3.7V			
Temperature		24 deg. C,				Humidity		56%	6 RH		
Test Result:		Pass]	Detector		I	PK		
OdB Bandwidth		787.58kHz									
Ref Lvl 10 dBm	Mar ndB BW	ker 1 [T1 r 20. 787.575150	00 dB	V	BW BW WT	30 kH 100 kH 8.5 ms	z	? Att	20 dB	ı	
10			1				[T1]	-2 2.47999	.34 dBm 699 GHz	Α	
-10			M	M.		ndB BW V T1	78 [T1]	20 7.57515 22	.00 dB 030 kHz .65 dBm		
-20			<i>~</i>		Y	∨ _{T2}	[T1]	2.47961 -22	222 GHz .64 dBm 980 GHz		
-30						W VA		2.40033	J00 G112	1MA	
-40							l _y				
-50		/						^			
-60	w. V						•	Mu	when		
-70											
-80											
-90											
Center 2 Date: 28	.48 GHz 3.APR.2021	13.25.16	300 k	Hz/				Spa	n 3 MHz		

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Pi/4D-QPSK M	Todulation	n									
Product:				O EARBU	JDS	Т	est Mode:		Keen tra	ansmitting	
	V		IARGING								
Mode			g Transmi	tting			est Voltage	;	DC3.7V		
Temperature		24 deg. C, Hun								% RH	
Test Result:			Pass				Detector		I	PK	
20dB Bandwidth		1.	208MHz								
Ref Lvl	r	ndB		00 dB	V	BW BW	30 k 100 k	Hz	F Att	20 dB	
10 dBm	F	BW 1	.208416	883 MHz	S	WT	8.5 m	s U	nit	dBm	l •
							v ₁	[T1]	-1	.23 dBm	A
0				_1					2.40199	699 GHz	
				$\land \land$			ndE BW		20	.00 dB 683 MHz	
-10					مما			[T1]	-21	.14 dBm	
			\ww\	\sim	~	<i>ـ</i> ـــــــــــــــــــــــــــــــــــ	"Wy		2.40137	776 GHz	
-20		T)	$\sqrt{}$					[T1]	-21	.00 dBm	
1MAX		/					V	7	2.40258	617 GHz	1MA
-30 -40											
-50		7						M	$\sqrt{}$		
-60	w v								\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MAY THE	
7.0											
-70											
-80											
-90 Center 2	.402 GH	Z		300	kHz/				Spa	ın 3 MHz	I
Date: 28	3.APR.20	21 13	:34:55								

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Product:	TRUE WIRELESS STEREO EARBUDS WITH CHARGING CASE					Т	est Mode:		Keep transmitting		
Mode	-	Keeping Transmitting					est Voltage	;	DC3.7V		
Temperature	24 deg. C,]	Humidity		569	% RH	
Test Result:			Pass				Detector]	PK	
0dB Bandwidth			1.214MHz								
Ref Lvl 10 dBm		Marker ndB BW	20. 20.	.00 dB	V	RBW /BW SWT	30 k 100 k 8.5 m	Hz	F Att	20 dB	ı
10				1			v ₁	[T1]	2.44099	.62 dBm	A
-10							ndE BW ▼ _T 1	(T1)	2.0 1.21442 -21	.00 dB 886 MHz .46 dBm	
-20				~ ~	* \			[T1]	2.44037 -22	776 GHz .02 dBm 218 GHz	
1MAX			/					\	2.11103	210 0112	1M
-40											
-50	/\/	\sim						<i>Μ</i>			
-60	Ť								\\	The same of the sa	
-70											
-80											
-90											
<u>-</u>	Center 2.441 GHz								Spa	ın 3 MHz	

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Product:	TRUE WIRELE WITH C	S ,	Test Mode:	Keep transmitting					
Mode	Keepii	ng Transmit	ting	7	Test Voltage	DC3.7V			
Temperature	2	24 deg. C,			Humidity		56%	6 RH	
Test Result:		Pass			Detector		F	PΚ	
20dB Bandwidth	1	.214MHz							
Ref Lvl 10 dBm	ndB	1 [T1 n 20. 1.214428	00 dB	RBW VBW SWT	30 kHz 100 kHz 8.5 ms	:	7 Att	20 dB	ı
10			3			r1]	-2 2.47999	.34 dBm	A
-10		0	$\triangle A$		ndB BW ▼ _{T1}	[T1]	1.21442 -22	.00 dB 886 MHz .11 dBm	
-20	T	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				[T1]	2.47937 -22 2.48059	776 GHz .46 dBm 218 GHz	
-30					λ,	\			1M2
-40									
-50	\sim					W	\mathcal{M}		
-60							_\	W. W	
-70									
-80									
-90 Center 2	.48 GHz		300 kH	z/			Spa	n 3 MHz	!

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Product:		SS STEREO EARI IARGING CASE	BUDS	Test Mode	:	Keep transmitting DC3.7V		
Mode	Keepin	g Transmitting		Test Voltag	je e			
Temperature	2	4 deg. C,		Humidity		569	% RH	
Test Result:		Pass		Detector]	PK	
20dB Bandwidth	1	.208MHz						
Ref Lvl	ndB	1 [T1 ndB] 20.00 dB 1.20841683 MHz	V	BW 30 1 BW 100 1 WT 8.5 1	kHz	F Att	20 dB	
10			1	▼ 1	[T1]	-1 2.40199	.22 dBm	
-10				nd BW ▼ _T	B 1 [T1]	20 1.20841 -21	.00 dB .683 MHz	
-20	T			~ ~	[T1]	2.40137 -20 2.40258	776 GHz .92 dBm 617 GHz	
-30							11	
-40								
-50					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\mathcal{M}		
My arm						Wh	many	
-60								
-70								
-80								
-90 Center 2) kHz/				ın 3 MHz	

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Product:	TRUE WIRELESS STEREO EARBUDS WITH CHARGING CASE					Test Mode:			Keep transmitting		
Mode			g Transmi			Te	est Voltage	;	DC3.7V		
Temperature	24 deg. C,						Humidity		56%	% RH	
Test Result:			Pass				Detector]	PK	
20dB Bandwidth		1.2	220MHz								
Ref Lvl 10 dBm	Ma: ndl BW	В	1 [T1 n 20.	00 dB	V	BW BW WT	30 k 100 k 8.5 m	Hz	F Att	20 dB	ı
10				1			▼ 1	[T1]	-1 2.44099	64 dBm	A
-10			^	\mathcal{M}	\	۲٠	ndB BW ▼ _{T1}	(T1)	1.22044	.89 dBm	
-20		T.)		ζ'	\	ا لہ		[T1]	2.44037 -21	174 GHz .84 dBm 218 GHz	
-30								\			1MA
-40											
-50		<i>J</i>							\mathcal{N}		
of many									\\\\		
-60											
-70											
-80											
-90 Center 2	.441 GHz			300	kHz/				Spa	ın 3 MHz	

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8QPSK Modu	lation											
Product:	TRUE WIRELESS STEREO EARBUDS WITH CHARGING CASE Keeping Transmitting					Test Mode: Test Voltage			Keep transmitting			
Mode									DC3.7V			
Temperature		24 deg. C,			Humidity Detector		<u>′</u>	56% RH PK				
Test Result:		Pass 1.214MHz										
20dB Bandwidth												
Ref Lvl 10 dBm		dB	1 [T1 n 20.	00 dB	V	BW BW WT	30 k 100 k 8.5 m	Hz	F Att	20 dB	ı	
0							▼ ₁	[T1]	-2 2.47999	.37 dBm 699 GHz	A	
-10			^		\	~	BW ▼ _{T1}	<u>[T1]</u>	1.21442	.11 dBm		
-20		T. 7		~ ~	\	الم		2 [T1] 2	2.47937 -22 2.48059	776 GHz .49 dBm 218 GHz		
1 MAX											1MA	
-40												
-50		J						ly	w/			
-60									I www	Mary		
-70												
-80												
-90 Center 2.48 GHz 300 kHz/ Date: 28.APR.2021 13:28:58									Spa	n 3 MHz	1	

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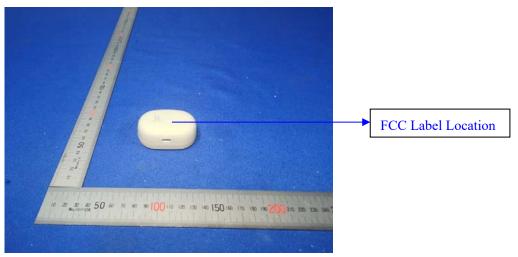


10.0 FCC ID Label

FCC ID: 2AZBO-N00003

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

Mark Location:



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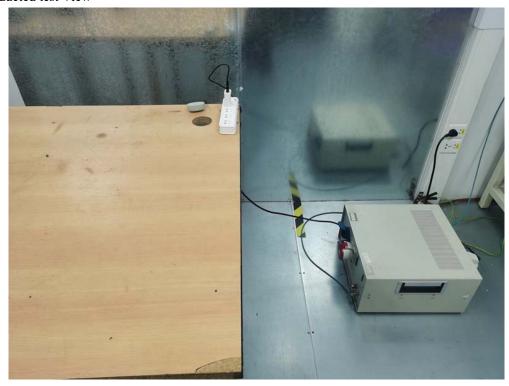
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11.0 Photo of testing

11.1 Conducted test View--



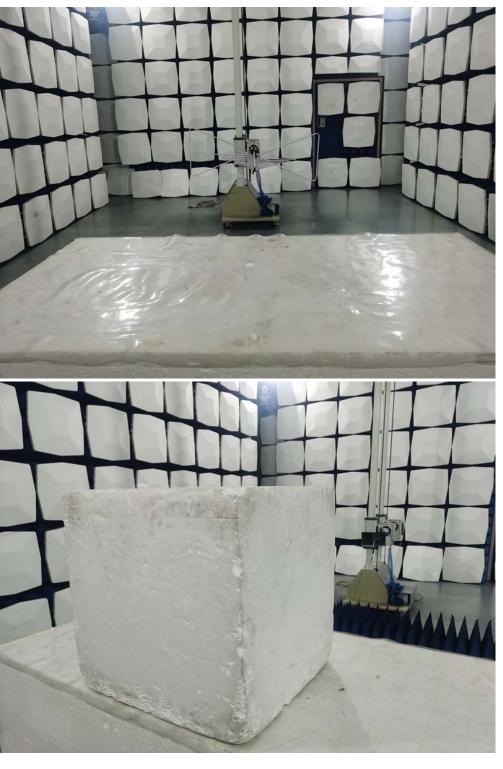
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Radiated emission test view



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11.2 Photographs-EUT

Outside View



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Photographs - EUT

Outside View



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Left - Outside View



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Left - Outside View



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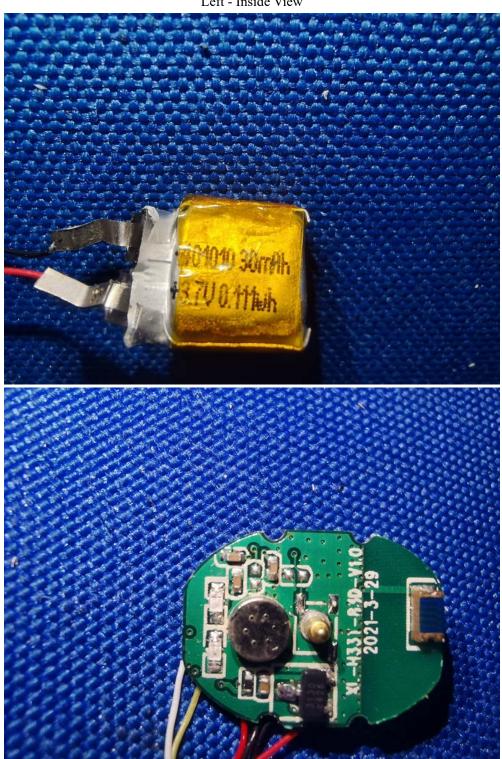
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Left - Inside View



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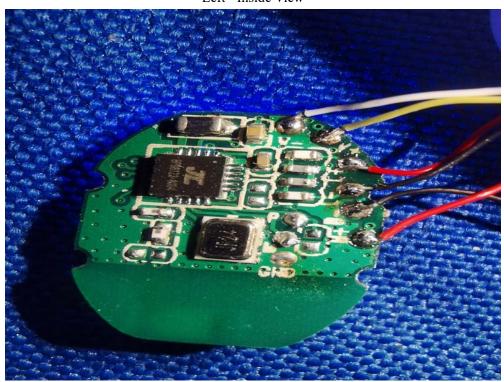
adopt any other remedies which may be appropriate.

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Date: 2021-05-06



Left - Inside View

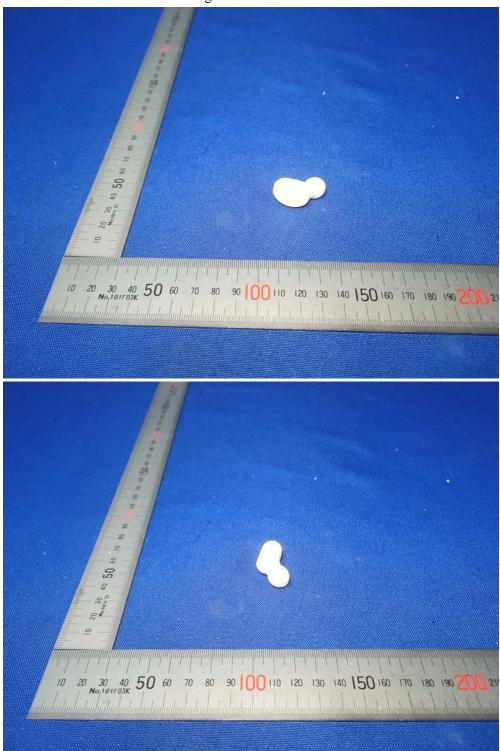


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Right - Outside View



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

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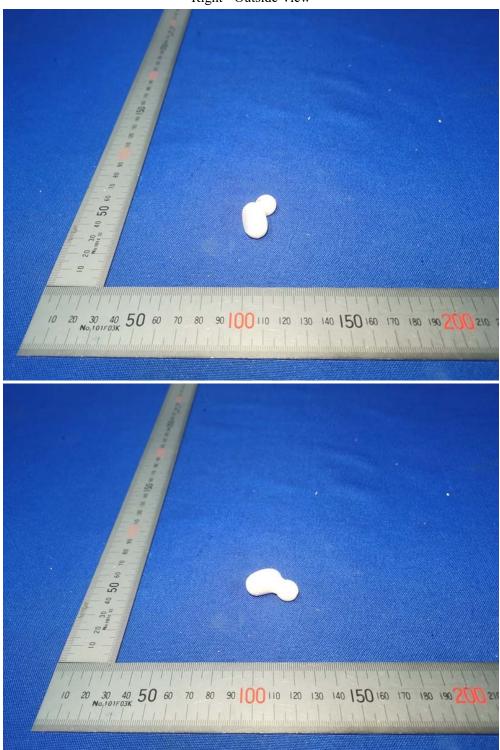
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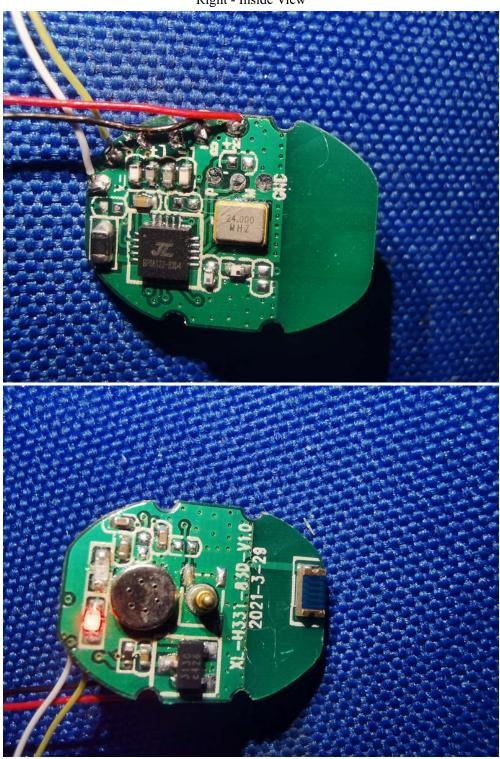
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Right - Inside View



-- End of the report--

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