



Report No.: TW2012129E File reference No.: 2021-01-04

Applicant: Bytech NY Inc.

Product: TWS Earbuds BLK XT-27

Model No.: HM-AU-BE-212 XT-27

Brand Name: iHOME

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility



Dated: January 04, 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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Test Report Conclusion

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

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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: Bytech NY Inc.

Address: 2585 West 13th Street, Brooklyn NY 11223, United States

Telephone: -Fax: --

1.3 Description of EUT

Product: TWS Earbuds BLK XT-27

Manufacturer: Bytech NY Inc.

Address: 2585 West 13th Street, Brooklyn NY 11223, United States

Brand Name: iHOME

Model Number: HM-AU-BE-212 XT-27

Additional Model Name N/A

Rating: DC5V or Built-in DC 3.7V/45mAh Li-ion battery;

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

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz
Channel Number: 79

Hardware Version: P90-2020-10-14V

Software Version: V1.0

Serial No.: 805112076864

Antenna Designation Chip antenna with gain 2.28dBi Max (Get from the antenna specification

provided by the applicant)

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2020-12-12 to 2021-01-04

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty = 3.6dB

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

1.7 Test Engineer

The sample tested by



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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	2018-02-07	2021-02-06
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	2020-01-16	2021-01-15
RF Cable	7h an a di	ZT26-NJ-NJ-8		2020-06-23	2021-06-22
Kr Cable	Zhengdi	M/FA		2020-06-23	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	2020-01-07	2021-01-06

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 and RSS-210	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

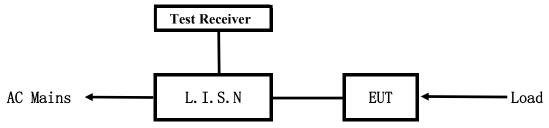
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

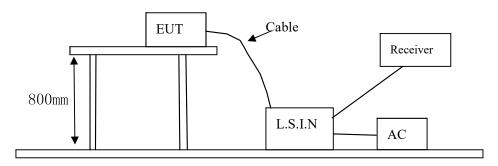


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014. AC 120V 60Hz.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
TWS Earbuds BLK XT-27	Bytech NY Inc.	HM-AU-BE-212 XT-27	2AHN6-AUBE212

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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 C63.4 -2014

- 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

Energy on av (MHz)	Class B Limits (dB µ V)			
Frequency(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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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

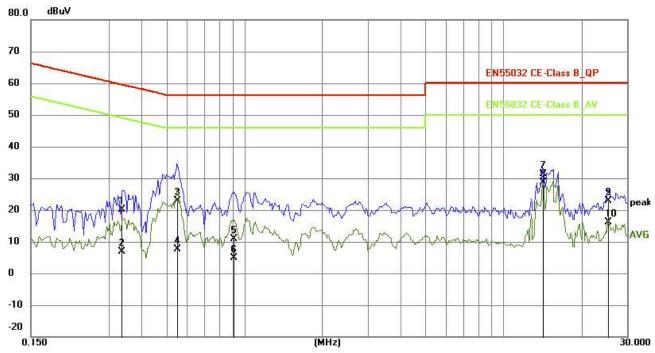
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and TX by Bluetooth

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3372	10.36	9.76	20.12	59.27	-39.15	QP	Р
2	0.3372	-2.87	9.76	6.89	49.27	-42.38	AVG	Р
3	0.5517	13.06	9.77	22.83	56.00	-33.17	QP	Р
4	0.5517	-2.08	9.77	7.69	46.00	-38.31	AVG	Р
5	0.9066	0.98	9.79	10.77	56.00	-45.23	QP	Р
6	0.9066	-4.81	9.79	4.98	46.00	-41.02	AVG	Р
7	14.2125	21.04	10.35	31.39	60.00	-28.61	QP	Р
8	14.2125	18.25	10.35	28.60	50.00	-21.40	AVG	Р
9	25.2261	11.85	11.00	22.85	60.00	-37.15	QP	Р
10	25.2261	5.13	11.00	16.13	50.00	-33.87	AVG	Р

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

EUT Operating Environment

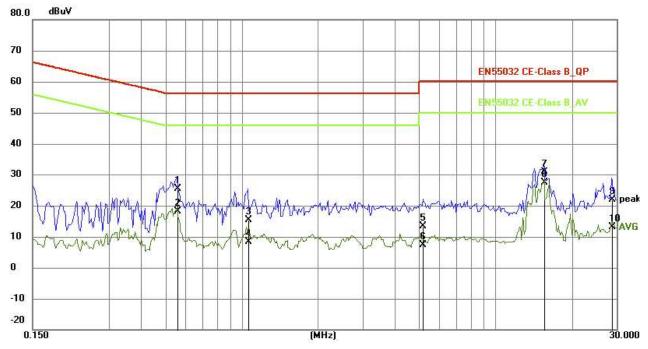
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and TX by Bluetooth

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5556	15.55	9.77	25.32	56.00	-30.68	QP	Р
2	0.5556	8.45	9.77	18.22	46.00	-27.78	AVG	Р
3	1.0626	5.60	9.79	15.39	56.00	-40.61	QP	Р
4	1.0626	-1.38	9.79	8.41	46.00	-37.59	AVG	Р
5	5.1723	3.44	9.94	13.38	60.00	-46.62	QP	Р
6	5.1723	-2.60	9.94	7.34	50.00	-42.66	AVG	Р
7	15.6165	20.5 <mark>1</mark>	10.42	30.93	60.00	-29.07	QP	Р
8	15.6165	16.96	10.42	27.38	50.00	-22.62	AVG	Р
9	28.6854	10.58	11.22	21.80	60.00	-38.20	QP	Р
10	28.6854	1.90	11.22	13.12	50.00	-36.88	AVG	Р

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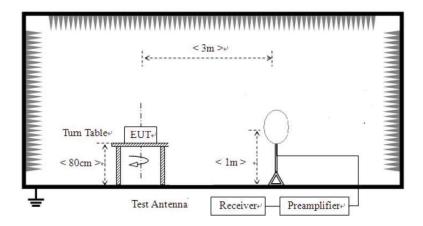


6 Radiated Emission Test

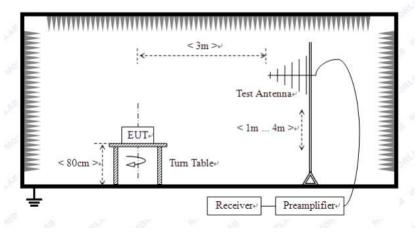
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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>20dB BW, VBW>=RBW). 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



For radiated emissions from 30MHz to1GHz



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

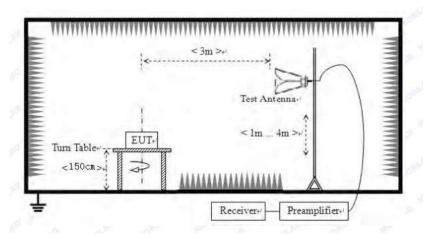
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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field Stre	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m		uV/m	dBuV/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.

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B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

	<u> </u>	8 1
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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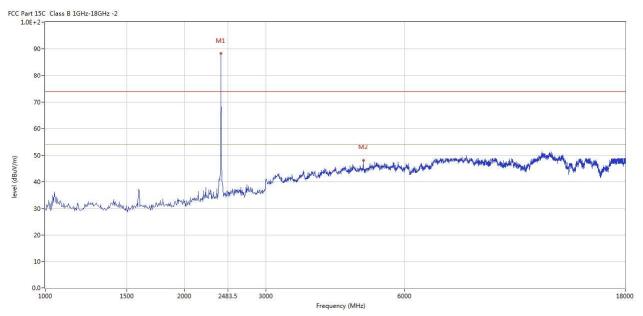


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



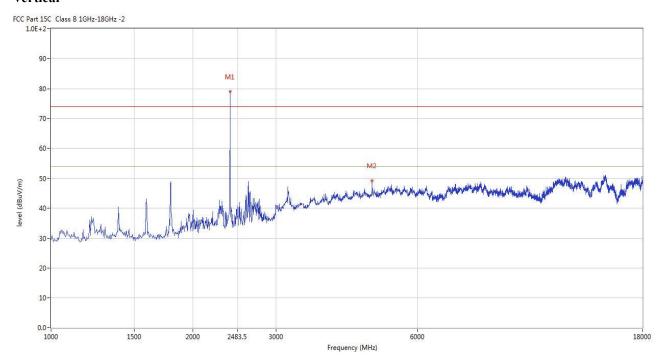
No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	2402.500	88.31	-3.57	74.0	14.31	Peak	29.00	100	Horizontal	N/A
2	4880.250	46.97	3.20	74.0	-27.03	Peak	270.00	100	Horizontal	Pass

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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	79.06	-3.57	74.0	5.06	Peak	160.00	100	Vertical	N/A
2	4803.750	49.15	3.13	74.0	-24.85	Peak	1.00	100	Vertical	Pass

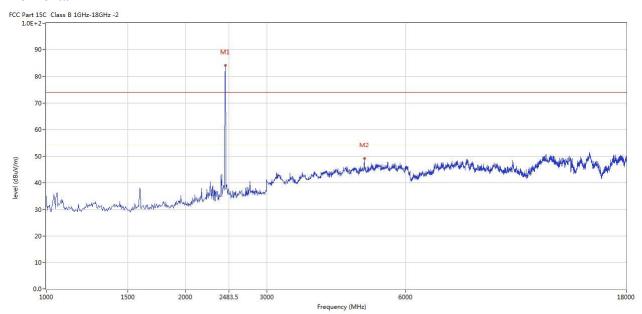
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



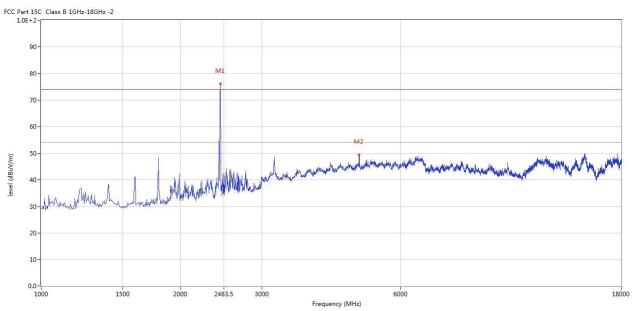
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	84.13	-3.57	74.0	10.13	Peak	333.00	100	Horizontal	N/A
2	4880.250	49.23	3.20	74.0	-24.77	Peak	16.00	100	Horizontal	Pass

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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	76.10	-3.57	74.0	2.10	Peak	143.00	100	Vertical	N/A
2	4876.000	49.39	3.19	74.0	-24.61	Peak	82.00	100	Vertical	Pass

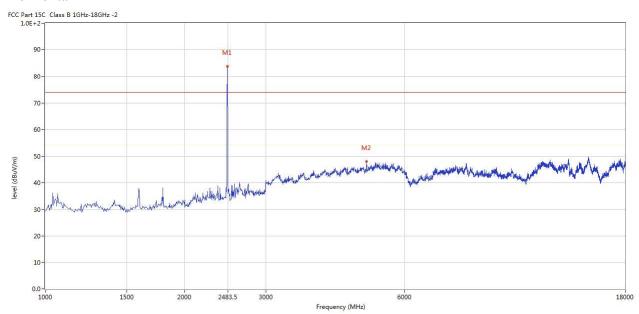
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.000	83.84	-3.57	74.0	9.84	Peak	224.00	100	Horizontal	N/A
2	4961.000	48.07	3.36	74.0	-25.93	Peak	344.00	100	Horizontal	Pass

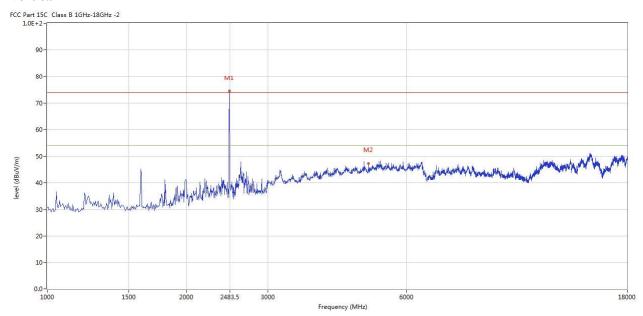
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Vertical



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	2479.000	74.55	-3.57	74.0	0.55	Peak	168.00	100	Vertical	N/A
2	4961.000	47.19	3.36	74.0	-26.81	Peak	98.00	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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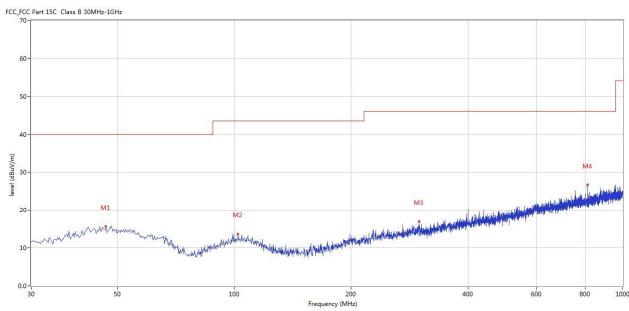


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	46.728	15.70	-11.44	40.0	-24.30	Peak	216.00	100	Horizontal	Pass
2	102.247	13.66	-13.42	40.0	-26.34	Peak	266.00	100	Horizontal	Pass
3	298.865	16.99	-11.10	47.0	-30.01	Peak	214.00	100	Horizontal	Pass
4	812.594	26.68	-2.94	47.0	-20.32	Peak	192.00	100	Horizontal	Pass

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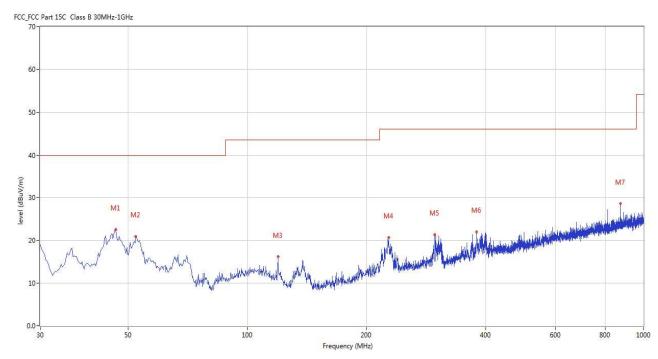


Radiated Emission In Vertical (30MHz----1000MHz)

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	46.486	22.54	-11.43	40.0	-17.46	Peak	8.00	100	Vertical	Pass
2	52.304	20.96	-11.45	40.0	-19.04	Peak	0.00	200	Vertical	Pass
3	119.703	16.18	-15.26	40.0	-23.82	Peak	8.00	100	Vertical	Pass
4	227.831	20.73	-12.78	40.0	-19.27	Peak	360.00	100	Vertical	Pass
5	297.411	21.32	-11.11	47.0	-25.68	Peak	261.00	100	Vertical	Pass
6	379.113	21.96	-9.26	47.0	-25.04	Peak	295.00	100	Vertical	Pass
7	875.144	28.57	-2.17	47.0	-18.43	Peak	0.00	200	Vertical	Pass

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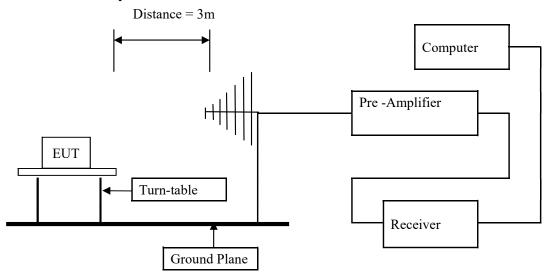


7. Band Edge

7.1 Test Method and test Procedure:

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

7. 2 Radiated Test Setup



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

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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

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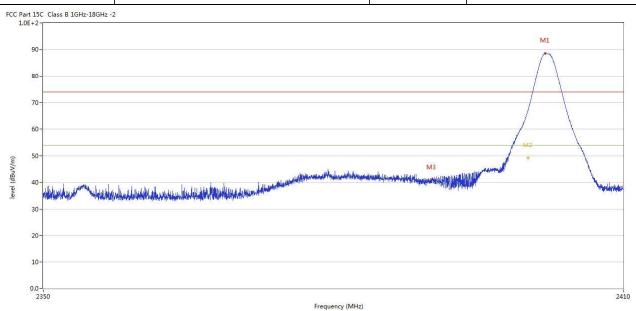
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7.6 Test Result

Product:	TWS Earbuds BLK XT-27	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

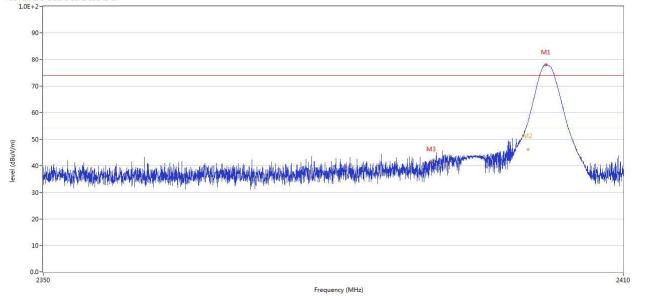


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2401.840	88.51	-3.57	74.0	14.51	Peak	29.00	100	Horizontal	N/A
2	2400.040	66.99	-3.57	74.0	-7.01	Peak	27.00	100	Horizontal	Pass
2**	2400.040	49.09	-3.57	54.0	-4.91	AV	27.00	100	Horizontal	Pass
3	2390.020	40.93	-3.53	74.0	-33.07	Peak	219.00	100	Horizontal	Pass

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Product:	TWS Earbuds BLK XT-27	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
nt 15C Class B 1GHz-18GHz -2 DE+2-			



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	2401.915	80.00	-3.57	74.0	6.00	Peak	169.00	100	Vertical	N/A
2	2400.040	58.47	-3.57	74.0	-15.53	Peak	169.00	100	Vertical	Pass
2**	2400.040	46.09	-3.57	54.0	-7.91	AV	169.00	100	Vertical	Pass
3	2390.005	43.30	-3.53	74.0	-30.70	Peak	105.00	100	Vertical	Pass

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Product:	T	WS Earb	ouds BLK X	KT-27	Polarit	У		Horizontal	
Mode		Keeping	g Transmitti	ing	Test Volt	age	DC3.7V		
Temperature		24	4 deg. C,		Humidi			56% RH	
Test Result:			Pass						
C Part 15C Class B 1GHz-18G	Hz -2								
90-									
80-									
70-									
60-		/_							
			1						
50-	, we will be a second	Marie Control of the							
40-	Market Market Commence of the			No.	Company (1)	ملمانيا تشارين		a Lon. In Cantobook 1910 officers	يرفين ألمناشة
50- 40- 30-	and the second s			Mulania Mariana	http://www.ledis.door.doc.doo	id getic best del de best de significant de se	handlesskillenbergenflad	and desirable the state of the	t protosophilas a kadara
Washington 40-	and the second s			Market Company	thinning let in the soul of the soul	فاجتد أحداثا المساحة المتعدادة	ling distribution of the	a digital the desirative desirative specific september 1	h jalika siden senden.
40- 30-	and the second second desired desired and the second secon			A which is the	ti secondo i a secondo dos	والمراجع المراجع المرا	icogal brooks in consequent and	adibi paharadirko balika aktorpa	t juli kad shika a kadara
30- 20-	godin versión la recentificação de la companya de l			A Maria Maria	Literatura de la constancia del constancia del constancia		i malifes de l'imperior de de	addin natural desirability se gala sepa	to patricular and a state of
30-	and the second s			2483.5 Frequency (MHz		ilyik hadili kadandan ken	ica dheadrinaean adad	add to have destroyed the spiral property	2500
30- 20- 0.0-	Results	Factor	Limit	2483.5	3)	Table (o)	Height	ANT	
30- 20- 10- 2470	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz	3)				2500

-26.11

Peak

100

Horizontal

Pass

214.00

47.89

-3.57

74.0

2483.462

2

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F	Product:	Т	WS Earb	ouds BLK X	T-27	Detec	tor		Vertical	
	Mode		Keeping	g Transmitti	ng	Test Vo	ltage		DC3.7V	
Ter	mperature		24	deg. C,		Humic	lity		56% RH	
Te	st Result:			Pass						
90 90 70	3-	-2								
50 40 30		HALLIAN AND AND AND AND AND AND AND AND AND A			- Walter Aller All		Anishad assaulthan spats	Hala hada ayan da		
50 40 30 20		Walter Andrew Andrew			2483.5 Frequency (MH:	z)	trappat alla llerapati	PARAMATA PARAMATA		2500
500 400 300 200 100 0.0.0	470	Walter Branch and American			Frequency (MH:	Г				000000000
500 400 300 200 100 0.00 2	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	2500 Verdict
500 400 300 200 100 0.0.02	Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	Over Limit (dB)	Detector		(cm)		Verdict
50 40 30 20	Frequency				Over Limit	Г	Table (o) 152.00 101.00	_	ANT Vertical Vertical	000000000

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 2.28dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	TWS Earbuds BLI	K XT-27	Test Mode:	Keep transmitting		
Mode	Keeping Transm	nitting	Test Voltage	DC3.7V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	P	K	
20dB Bandwidth	865.73kHz	Z		-		
Ref Lvl		.00 dB V	RBW 30 ki	Hz	10 dB	
0 dBm	BW 865.731462	293 kHz \$	WT 8.5 ms	s Unit	dBm	
-10		1	V 1	[T1] -1 2.4018	1.35 dBm 4669 GHz	
			ndB BW ▼π1	865.7314	0.00 dB 6293 kHz	
-20	T1 ~	N	Var of T2	2.4015 [T1] -3	5812 GHz 1.46 dBm	
-30 1MAX	\frac{1}{2}			2.4024	2385 GHz	
-40	\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			74		
-50	~					
-60	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			4	Manage 1	
-70						
-80						
-90						
-100						

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B 1						
Product:	TWS Ear	buds BLK XT-27	Т	est Mode:	Keep tra	nsmitting
Mode	Keepir	ng Transmitting	Те	est Voltage	DC	3.7V
Temperature	2	4 deg. C,	I	Humidity	56%	% RH
Test Result:		Pass		Detector	I	PK
20dB Bandwidth	8	59.72kHz				
<u>R</u>		1 [T1 ndB]	RBW	30 kH		10 dB
Ref Lvl 0 dBm	ndB BW 859	20.00 dB 9.71943888 kHz	VBW SWT	100 kH 8.5 ms		dBm
0				v 1	[T1] -1	0.88 dBm
-10		1			2.4408	4669 GHz
				ndB BW V ⊤i	859.7194 [T1] -3	0.00 dB 3888 kHz 0.96 dBm
-20		T1 4	Y		2.4405 [T1] -3	5812 GHz 0.71 dBm
-30		<u></u>			2.4414	1784 GHz
-40		J			\ ₁	
-50						
						Muremore
-70						
-80						
-90						
-100 Center 2.4	441 GHz	300	kHz/		a S	an 3 MHz
		:15:22	· • /		55	0 1.11.2

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Product:	TWS Earbud	ls BLK XT-27	T	Test Mode:		Keep tra	nsmitting	
Mode	Keeping T	ransmitting	Te	est Voltage	DC3.7V 56% RH			
Temperature		eg. C,		Humidity				
Test Result:		ass		Detector		P	K	
0dB Bandwidth	859.7				_			
	Marker 1	[T1 ndB]	RBW	30 kH	z RI	7 Att	10 dB	
Ref Lvl	ndB	20.00 dB	VBW	100 kH	z			
0 dBm	BW 859.7	1943888 kHz	SWT	8.5 ms	Ur	nit	dBr	m
0				\mathbf{v}_1	[T1]	-11	l.07 dBm	n
		1				2.47984	1669 GHz	Z
-10		Ž ₀	0	ndB		20	.00 dB	1
			$\bigvee \setminus_{\lambda} \mid$	BW	85	9.71943	888 kHz	Z
-20	- -		<u> </u>	∇_{T1}	[T1]	-31	.12 dBm	n
		\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V	V T2	[T1]	2.47955 -31	812 GHz L.14 dBn	m
-30		TA		V12 -1	[++]	2.48041	784 GHz	
1MAX)		٧ ا]1
-40				V \				ł
				ľ	\ _\			
-50	~_/					m		
-60	V				₩/	√√		
							mount	١
-70								1
-80								1
-90								1
Center 2.48		300 k					an 3 MHz	J

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Pi/4D-QPSK M Product:		TWS Ear	buds BLK	XT-27		T	est Mode:		Keep trai	nsmitting	
Mode			ıg Transmi				est Voltage		DC3		
Temperature			4 deg. C,			+	Humidity		56% RH		
Test Result:			Pass			+	Detector		P		
20dB Bandwidth		1	.226MHz							_	
6			1 [T1 r	ndB]	I	RBW	30 k	Hz R	F Att	10 dB	
Ref Lvl		ndB		.00 dB	7	JBW	100 k	Hz			
0 dBm		BW 1	.226452	291 MHz	5	SWT	8.5 m	s U	nit	dBm	n
0							v ₁	[T1]	-11	.48 dBm]_
				1					2.40184	669 GHz	A
-10				^ ~			ndF	8	20	.00 dB	1
				/\ /			BW		1.22645	291 MHz	
-20			100°		h	\	V _T	[T1]	-31	.32 dBm	
				~		•			2.40137	776 GHz	
-30		T	~				V T	[T1]	-31	.49 dBm	
1MAX								\mathcal{A}	2.40260	421 GHZ	1м
-40											
-50	~~~	$\sqrt{}$						\m	1 /m	\\	
-60									·		-
-70											
-80											
-90											1
-100 Center 2.	402 CT	In		300	le II —	/			C== -	l ın 3 MHz	ı

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Product:	TWS Ea	ırbuds BLK	XT-27	Т	est Mode:		Keep trai	nsmitting	
Mode	Keepi	ing Transmi	tting	Т	est Voltage		DC3	3.7V	
Temperature		24 deg. C,			Humidity		56%	RH	
Test Result:		Pass			Detector		P	K	
dB Bandwidth		1.226MHz					-	-	
	Marker	1 [T1 r	ndB]	RBW	30 k	Hz RI	- Att	10 dB	
Ref Lvl	ndB	20.	.00 dB	VBW	100 k				
0 dBm	BW	1.226452	291 MHz	SWT	8.5 m	s Ur	nit	dBr	n
					v ₁	[T1]	-10	.95 dBm	
			<u>1</u>				2.44084	669 GHz	
-10			Λ		ndF	3	20	.00 dB	
			\	\~~	BW V TI	[m 1]	1.22645	291 MHz	
-20		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	المر مي	, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\sim	[TT]	2.44037	776 GHz	İ
	т				$\nabla_{\mathbf{T}}$	(T1)	-31	.27 dBm	
-30		1				<u> </u>	2.44160	421 GHz	
1MAX -40									1
-50									
www	\sim					\m	~~~~	\sim	
-60									
-70									
-80									
-90									
Center 2.441			200	kHz/				n 3 MHz	j

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Pi/4D-QPSK N	Modulati	on									
Product:		TWS Ear	buds BLK	XT-27		T	est Mode:		Keep trai	nsmitting	
Mode		Keepii	ng Transmi	tting		Те	est Voltage		DC3.7V		
Temperature		2	24 deg. C,			I	Humidity		56%	RH	
Test Result:		Pass 1.226MHz					Detector		P	K	
20dB Bandwidth										-	
(R)			1 [T1 r		F	RBW	30 k		F Att	10 dB	
Ref Lvl		ndB		.00 dB		/BW		Hz			
0 dBm		BW 1	L.226452	291 MHz	Ş	SWT	8.5 m	is Ui	nit	dBn	n _
							v ₁	[T1]	-11	.07 dBm	A
				1					2.47984	669 GHz	
-10				^ _			ndI	8	20	.00 dB	1
				$ \ \ / \ \ /$	_ ^		BW ▼ _T		1.22645	291 MHz	
-20			~~~		V~V	$\overline{}$		[T1]	-30	.95 dBm	
			\sim	Ť			$\nabla \nabla$		2.47937	776 GHz	
-30		T						12 [+ +]	2.48060	421 GHz	
1MAX								4	2.10000		1MA
-40											
-50	M							Jun.	~~~	~~~~	
-60											
-70											
-80											
-90											
-100	40 01			200	1-17	,			~	- 2 2477	Į
Center 2	.48 GH:	Z		300	KHZ/				Spa	ın 3 MHz	
Date: 25	DEC.2	020 14	:18:07								

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Product:	TWS Ea	rbuds BLK	XT-27		Test Mode:		Keep tra	nsmitting	
Mode	Keepi	ng Transmi	itting		Test Voltage	;	DC.	3.7V	
Temperature		24 deg. C,			Humidity		56%	БRН	
Test Result:		Pass			Detector		P	K	
dB Bandwidth		1.226MHz					-	-	
	Marker	1 [T1 r	ndB]	RBW			F Att	10 dE	3
Ref Lvl	ndB	20.	.00 dB	VBW					
0 dBm	BW	1.226452	291 MHz	SWT	8.5 n	ns U	nit	dE	3m
					v ₁	[T1]	-11	1.39 dE	sm
			1				2.40184	669 GH	
-10			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		ndl	8	20	.00 dB	1
				\	BW VT		1.22645	291 MH	Z
-20		M	\ <u>\</u>		₩ <u>*</u>	[T1]	-31	1.40 dE	
] [T1]	2.40137	7776 GH 1.45 dE	
-30	T	 			Δ,	[2 [+ +] 4	2.40260	.43 de 0421 GH	Z
1MAX						4			1
-40									
-50	~~~					W	~~~~	~~~	<u></u>
-60									1
-70									1
-80									+
-90					-				-
100									
Center 2.40	2 GHz		300	kHz/			Spa	an 3 MH	z

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Product:	TWS Ea	ırbuds BLK	XT-27	Т	est Mode:		Keep trai	nsmitting	
Mode	Keepi	ing Transmi	tting	Te	est Voltage		DC3		
Temperature		24 deg. C,	*		Humidity		56%	RH	
Test Result:		Pass			Detector		P	K	
0dB Bandwidth		1.226MHz					-	-	
	Marker	1 [T1 n	idB]	RBW	30 k	Hz Rl	7 Att	10 dB	
Ref Lvl	ndB	20.		VBW		Hz			
0 dBm	BW	1.226452	91 MHz	SWT	8.5 m	s Uı	nit	dBı	m
					\mathbf{v}_1	[T1]	-10	.88 dBr	n
			1				2.44084	669 GHz	
-10			/\ /		ndI	1	20	.00 dB	1
			/\./	\ _~	BW ▼mm		1.22645	291 MHz	Z
-20		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	· W	VV		2.44037	.08 dBr 1776 GHz	m z
		$\sqrt{}$			$\nabla_{\mathbb{T}}$		-31	.20 dBr	n
-30	رم ا					<u> </u>	2.44160	421 GHz	Z
1MAX -40						γ			
-50						\J.	M/W	\sim	
-60									
-70									\mathbf{I}
-80									
-90									1
•									
-100 Center 2.4	41 GHz		300	kHz/			Spa	ın 3 MHz	z

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8QPSK Modul	ation								
Product:	TW	TWS Earbuds BLK XT-27			Test Mode: Test Voltage Humidity Detector		Keep transmitting DC3.7V 56% RH		
Mode	K	Keeping Transmitting 24 deg. C, Pass							
Temperature									
Test Result:							PK		
20dB Bandwidth		1.232MHz							
	Mar	ker 1 [T1		RBW	30 kI	Hz R	F Att	10 dB	
Ref Lvl	ndB		.00 dB	VBW	100 ki				
0 dBm	BW	1.23246	493 MHz	SWT	8.5 ms	s Uı	nit	dBm	
					v ₁	[T1]	-11	l.02 dBm	Α
			1				2.47984	669 GHz	
-10			Λ		ndB		20	0.00 dB	
				\	BW ▼ _{TT}		1.23246	493 MHz	
-20		~~~				[T1]	-31	1.13 dBm	
		\sim			∇		2.47937	776 GHz 1.06 dBm	
-30		T 1			- 1	2 [+ +]	2.48061	022 GHz	
1MAX						4			1MA
-40									
-50	www					hu	M	/w/	
-60									
-70									
-80									
-90									
-100									
Center 2. Date: 25	48 GHz	14:29:16	300	kHz/			Spa	an 3 MHz	

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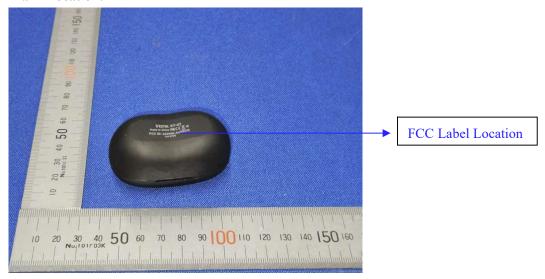


10.0 FCC ID Label

FCC ID: 2AHN6-AUBE212

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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11.0 Photo of testing

11.1 Conducted test View--



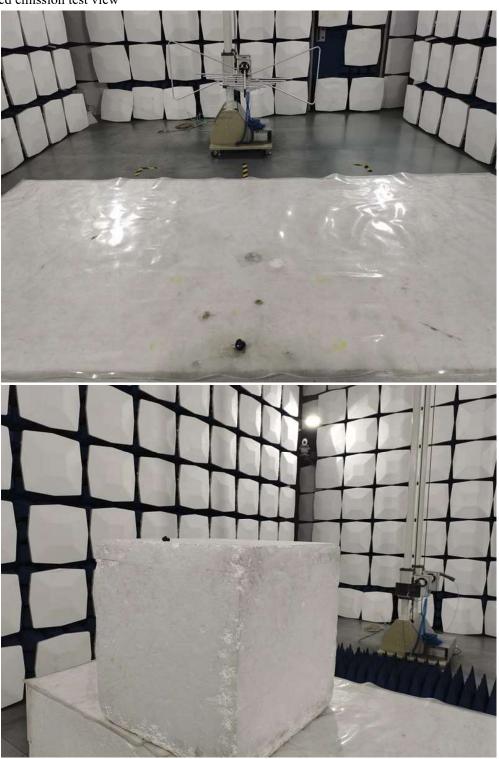
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Radiated emission test view



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

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11.2 Photographs – EUT

Outside View



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Photographs – EUT

Outside View





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Outside View



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Photographs – EUT

Outside View



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Outside View



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Outside View



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Outside View



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Outside View



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Inside view



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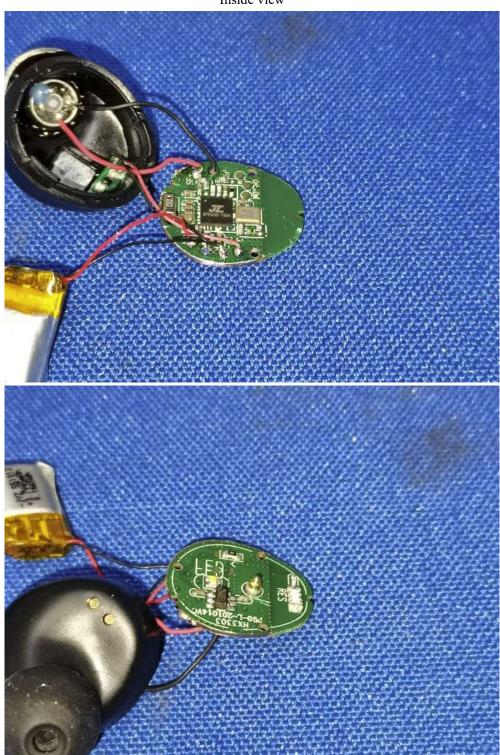
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Inside view



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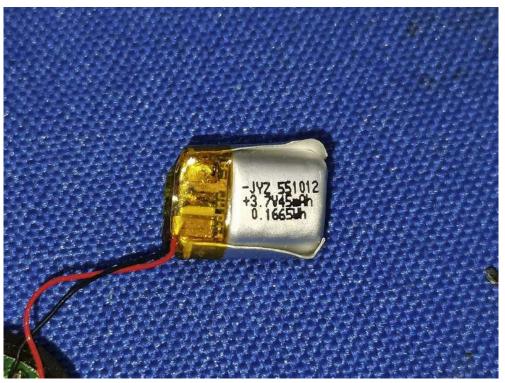
adopt any other remedies which may be appropriate.

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Inside view



-- End of the report--