



Report No.: TW2106070E File reference No.: 2021-06-28

Applicant: Bytech NY Inc.

Product: Bluetooth earphone

Model No.: HM-AU-BE-217, AT08, AX-40

Brand Name: N/A

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

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

electromagnetic compatibility



Dated: June 28, 2021

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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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.

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: Bytech NY Inc.

Address: 2585 West 13th Street Brooklyn NY 11223 USA

Telephone: +86-755-86397260 Fax: +86-755-26609516

1.3 Description of EUT

Product: Bluetooth earphone

Manufacturer: Shenzhen Glory Star Technology Industrial Co., Ltd

Address: Room 2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Brand Name: N/A

Model Number: HM-AU-BE-217 Additional Model Name AT08, AX-40

Hardware Version: V1.0 Software Version: V003

Rating: DC5V input or Built-in DC3.7V, 40mAh Li-ion battery for Earphone; DC5V

input or Built-in DC3.7V, 350mAh Li-ion battery for charger base

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

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation Chip antenna with gain 2.73dBi Max (Get from the antenna specification

provided by the applicant)

1.4 Submitted Sample: 1 pc

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1.5 Test Duration

2021-06-07 to 2021-06-25

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 unce tantivis for everage 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	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-06-18	2022-06-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
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	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

2.2 Automation Test Software

For Conducted Emission Test

Name	Version		
EZ-EMC	Ver.EMC-CON 3A1.1		

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

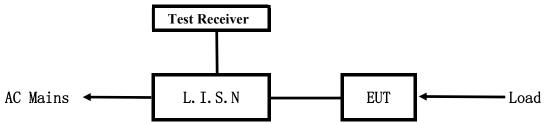
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

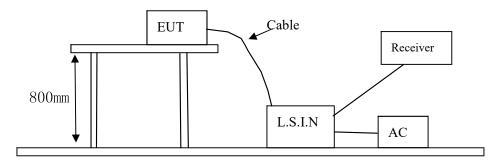


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
	Shenzhen Glory Star Technology	HM-AU-BE-217	
Bluetooth earphone	Industrial Co., Ltd	(see the page 4 for	2AHN6-AUBE217
	ilidustriai Co., Ltd	additional models)	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

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

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

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

5.5 Power line conducted Emission Limit according to Paragraph 15.207

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

Notes:

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

5.6 Test Results:

Pass

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

EUT Operating Environment

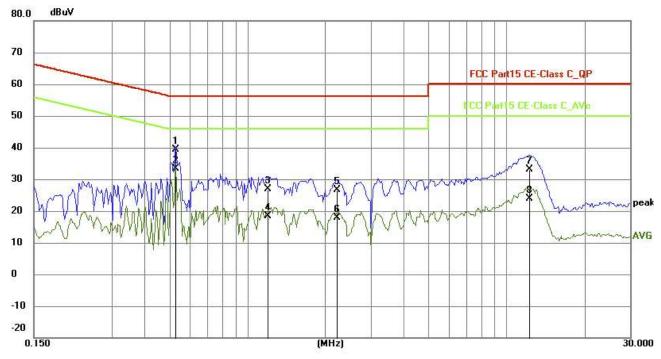
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Model: HM-AU-BE-217

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	0.5283	29.55	9.77	39.32	56.00	-16.68	QP	Р
2	0.5283	23.54	9.77	33.31	46.00	-12.69	AVG	Р
3	1.2030	17.17	9.79	26.96	56.00	-29.04	QP	Р
4	1.2030	8.49	9.79	18.28	46.00	-27.72	AVG	Р
5	2.2092	16.87	9.81	26.68	56.00	-29.32	QP	Р
6	2.2092	8.19	9.81	18.00	46.00	-28.00	AVG	Р
7	12.2313	22.81	10.26	33.07	60.00	-26.93	QP	Р
8	12.2313	13.74	10.26	24.00	50.00	-26.00	AVG	Р

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

EUT Operating Environment

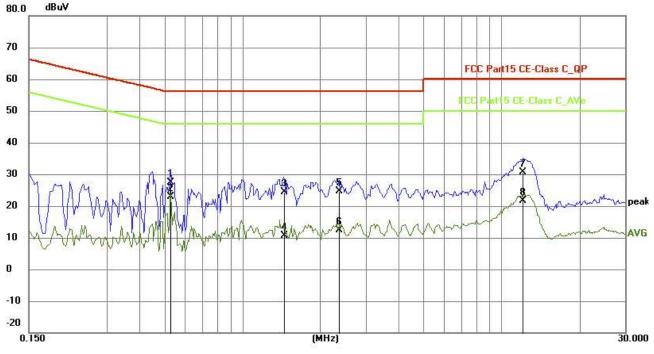
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Model: HM-AU-BE-217

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	0.5283	17.68	9.77	27.45	56.00	-28.55	QP	Р
2	0.5283	13.14	9.77	22.91	46.00	-23.09	AVG	Р
3	1.4448	14.70	9.79	24.49	56.00	-31.51	QP	Р
4	1.4448	0.91	9.79	10.70	46.00	-35.30	AVG	Р
5	2.3613	14.86	9.82	24.68	56.00	-31.32	QP	Р
6	2.3613	2.57	9.82	12.39	46.00	-33.61	AVG	Р
7	12.0987	20.38	10.25	30.63	60.00	-29.37	QP	Р
8	12.0987	11.39	10.25	21.64	50.00	-28.36	AVG	Р

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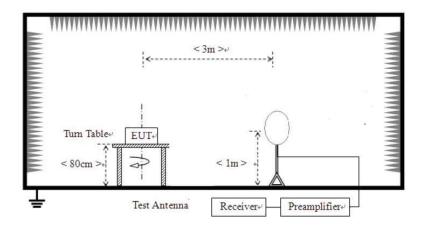


6 Radiated Emission Test

- 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



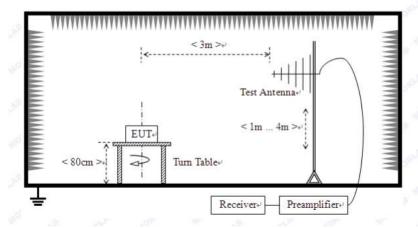
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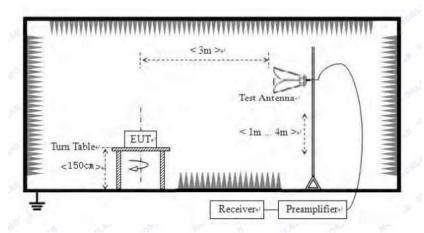
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For radiated emissions from 30MHz to1GHz



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	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF 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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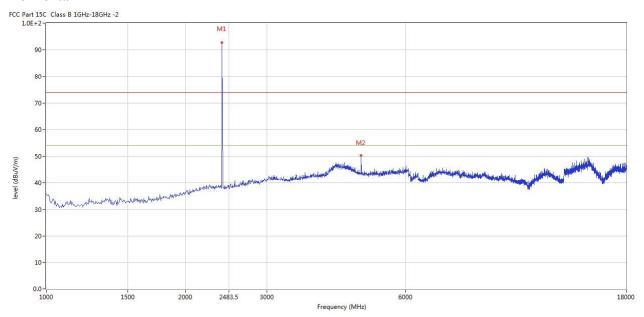


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



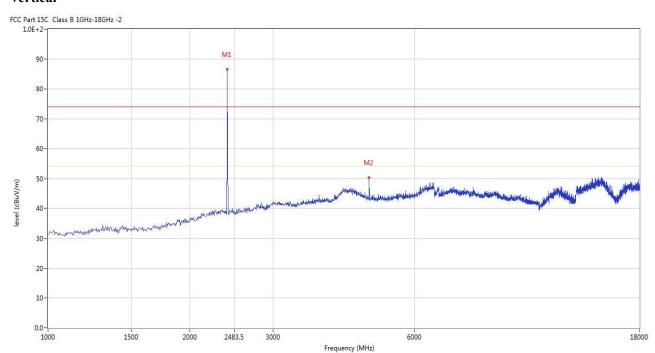
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2402.149	92.88	-3.57	114.0	-21.12	Peak	211.00	100	Horizontal	Pass
2	4802.799	50.20	3.12	74.0	-23.80	Peak	234.00	100	Horizontal	Pass

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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	2402.149	86.54	-3.57	114.0	-27.46	Peak	27.00	100	Vertical	Pass
2	4802.799	50.37	3.12	74.0	-23.63	Peak	55.00	100	Vertical	Pass

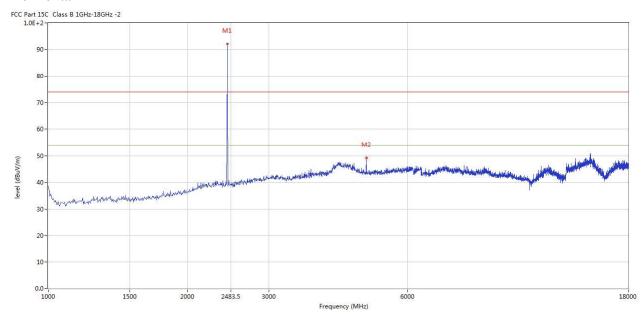
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



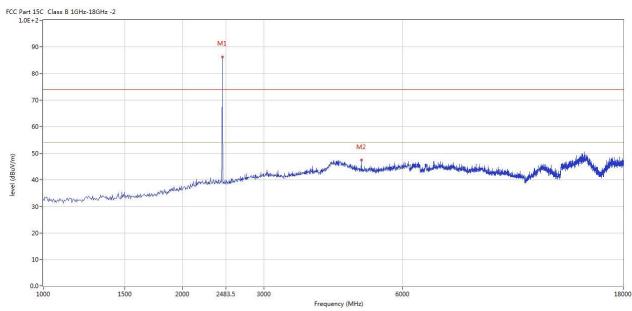
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	92.15	-3.57	114.0	-21.85	Peak	207.00	100	Horizontal	Pass
2	4883.529	49.19	3.20	74.0	-24.81	Peak	230.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	86.32	-3.57	114.0	-27.68	Peak	34.00	100	Vertical	Pass
2	4879.280	47.43	3.20	74.0	-26.57	Peak	28.00	100	Vertical	Pass

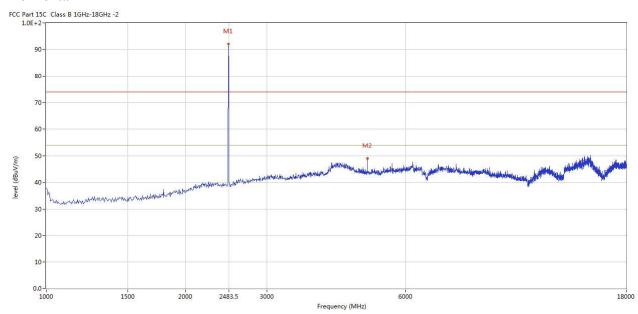
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



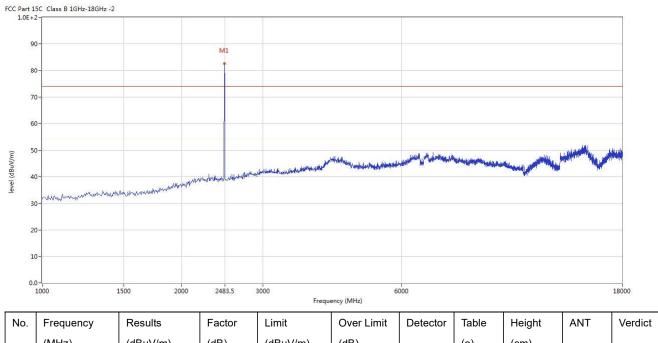
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2479.630	92.07	-3.57	114.0	-21.93	Peak	205.00	100	Horizontal	Pass
2	4960.010	49.05	3.36	74.0	-24 .95	Peak	200.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	82.65	-3.57	114.0	-31.35	Peak	51.00	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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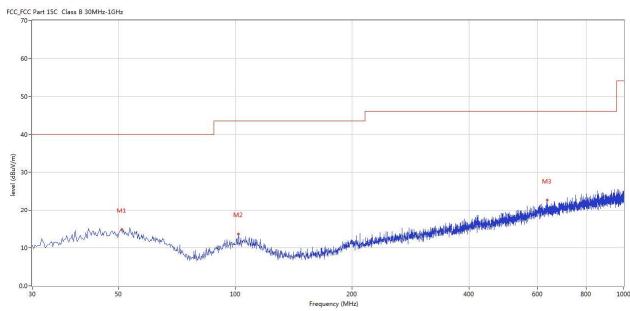


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	51.092	14.92	-11.41	40.0	-25.08	Peak	0.00	100	Horizontal	Pass
2	101.762	13.71	-13.43	43.5	-29.79	Peak	111.00	100	Horizontal	Pass
3	634.644	22.61	-4.85	46.0	-23.39	Peak	104.00	100	Horizontal	Pass

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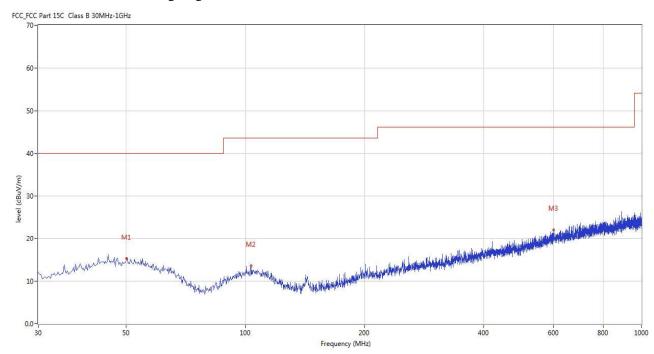


Radiated Emission In Vertical (30MHz----1000MHz)

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	50.122	15.30	-11.38	40.0	-24.70	Peak	253.00	100	Vertical	Pass
2	103.459	13.63	-13.36	43.5	-29.87	Peak	267.00	100	Vertical	Pass
3	599.975	21.98	-4.95	46.0	-24.02	Peak	113.00	100	Vertical	Pass

Report No.: TW2106070E

Date: 2021-06-28

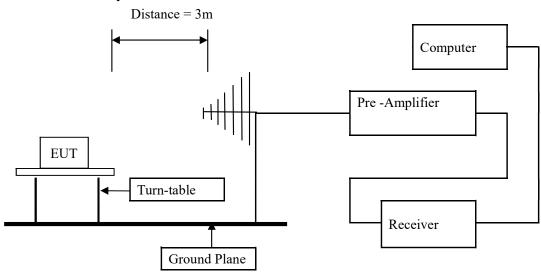


7. Band Edge

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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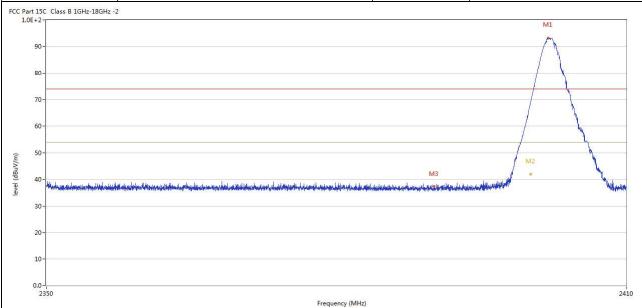
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7.6 Test Result

Product:	Bluetooth earphone	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	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
2	2399.983	64.52	-3.57	74.0	-9.48	Peak	147.00	100	Horizontal	Pass
2**	2399.983	42.08	-3.57	54.0	-11.92	AV	147.00	100	Horizontal	Pass
3	2389.965	37.28	-3.53	74.0	-36.72	Peak	55.00	100	Horizontal	Pass

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3

2390.025

36.73

-3.53

74.0



I	Product:		Bluetooth	earphone		Detector		Ve	rtical		
	Mode	K	Leeping Tra	nsmitting	Т	est Voltage	;	DO	C3.7V		
Te	mperature		24 deş	g. C,		Humidity		56% RH			
Те	est Result:		Pas	SS							
Part 1 1.0E+2	5C Class B 1GHz-18GHz 2-	-2									
90								N	/1		
90								(.Tu		
80	0-								Ŋ		
70	0-							-	_		
60	0-										
50	0-								N.		
	34-2					M3		M2	1		
40	Renatura integli internativa	handlestanish of historical statement	Literary and the state of the s	t with his high and sold debut de final de	ender the suppose and			grande har	N	wherehadest	
30	0-										
20	0-										
10	0-										
0.0											
	2350			F	requency (MHz)					2410	
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdi	
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)			
2	2399.968	59.97	-3.57	74.0	-14.03	Peak	186.00	100	Vertical	Pass	
2**	2399.968	40.08	-3.57	54.0	-13.92	AV	186.00	100	Vertical	Pass	
			1	†	1		1	1	1	1	

-37.27

Peak

27.00

100

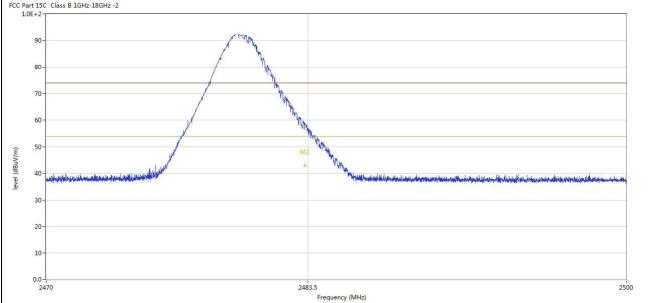
Vertical

Pass

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Product:	Bluetooth earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18GHz - 1.0E+2	2		1



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
2	2483.339	58.95	-3.57	74.0	-15.05	Peak	203.00	100	Horizontal	Pass
2**	2483.339	42.99	-3.57	54.0	-11.01	AV	203.00	100	Horizontal	Pass

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I	Product:	E	Bluetooth e	earphone	Б	Detector		Ver	tical		
	Mode	K	eeping Tra	nsmitting	Tes	st Voltage		DC	DC3.7V		
Te	mperature		24 deg	g. C,	Н	umidity		56% RH			
Te	st Result:		Pas	S							
CC Part 1	5C Class B 1GHz-18GHz	2									
9(0-										
81	0-			1							
70	0-		/	7							
6	0-			July .							
6wel (dBuV/m)	0-		<u>N</u>	and the same of th							
p) al	- Company of the Comp	nonequillement in the property of		7	ない はない ないから からから はない	-	in history was default in	والمعالية	rpaddy redy many mention of the control	id <mark>ele</mark> s elem	
31)-										
20	0-										
10	0-										
0.0	1-										
	2470			2483.5 Fre	quency (MHz)					2500	
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict	
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)			

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 with gain 2.73dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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Product:	Bluet	ooth earp	hone		Test	Mode:		Keep tra	nsmitting	3		
Mode	Keepir	ng Transm	nitting		Test '	Voltage		DC3.7V				
Temperature	24 deg. C,					nidity		56%	6 RH			
Test Result:		Pass			Det	tector		P	K			
0dB Bandwidth	7											
Ref Lvl	Delta 1	0 .	.09 dB	VI		30 k 100 k	Hz	RF Att	20 d			
10 dBm	763	.527054	411 kHz	Sī	VT	8.5 m	S	Unit	a	Bm		
0			2			V 1	[T1]	-1 2.4016	9.76 d 0621 G			
				\bigvee	\	▲ 1		763.5270 _	0.09 d 5411 k	B Hz Bm		
-10		<u>↓</u> ~			1	2	-(+ +)	2.4018	1.12 0	Hz		
-20 <u>-D1 -20.49</u>	dBm	<i></i>				M	\			11		
-30												
-40							, C	~~~				
-50 My									- Company	~		
-60												
-70												
-80												
-90 Center 2.40												

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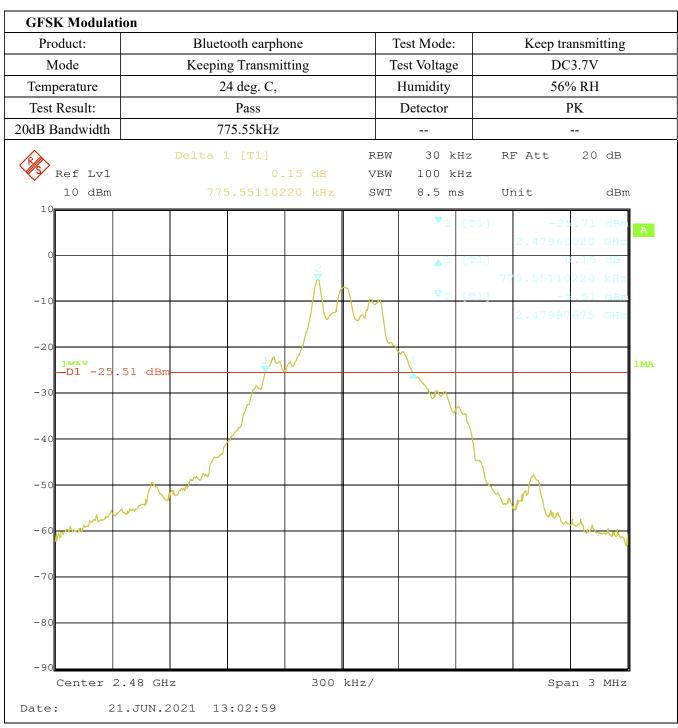


Product:		Bluetooth earphone						:	Keep transmitting				
Mode			g Transmi				st Voltag		DC3.7V				
Temperature		24 deg. C,					Humidity			56% RH			
Test Result:	Pass						Detector			PK			
20dB Bandwidth	775.55kHz												
						BW	30 k	Hz	z RF Att 20 c		20 dB		
Ref Lvl				11 dB	VI	BW	100 k	Hz					
10 dBm		775	5.551102	20 kHz	SI	TW	8.5 n	ıs	U	nit	dB	m	
10							v ₁	[T1]	1	-23	.05 dB	m	
										2.44060	020 GH	A	
0				2 7			<u>1</u>	[T1]		-(.11 dB		
				/\ /	\ ~	١ ،				75.55110	220 kH	Z	
-10					W	\forall	<u> </u>	[T1]		2.44087	.15 dB	m Z	
						Y.				2.44007	075 GII		
-20	1.E1.D		→ \\	<u>~[/]</u>		Ť	1					1	
D1 -23.	15 GBIII—						744					1M2	
-30								Λ,				-	
			الر										
-40		- Jones											
		\wedge						\		\wedge			
-50	-	~ ~							<u>ν</u> ν,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
1 mount	Low									w	my		
-60												4	
-70						\dashv						-	
-80						\dashv						-	
-90													
Center 2	.441 GH	z		300	kHz/					Spa	an 3 MH	z	

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Pi/4D-QPSK M	Todulatio	n									
Product:		Blueto	oth earph	one	Г	est Mode:		Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting	Т	est Voltage	;				
Temperature		2	4 deg. C,			Humidity		56% RH			
Test Result:	Pass					Detector		PK			
20dB Bandwidth		1.	124MHz								
(R)		Marker	1 [T1 r		RBW	30 k	Hz Rl	F Att	20 dB		
Ref Lvl		ndB		.00 dB	VBW		Hz				
10 dBm		BW 1	.124248	350 MHz	SWT	8.5 m	s Ui	nit 	dBm	ļ 1	
						v ₁		-0	.60 dBm	Α	
0					1			2.40215	932 GHz		
				\ \ /	$h \wedge h$	ndE BW		20 1.12424	.00 dB 850 MHz		
-10					\bigcup	$ abla_{\mathrm{T}1}$	[T1]	-20	.27 dBm		
				\checkmark				2.40146	794 GHz		
-20 1MAX		<u> </u>	Ĵ				M	2.40259	218 GHz	1MA	
-30	\wedge							<u></u>	\sim /		
-40		/ \/						\			
-50											
-60											
-70											
-80											
-90 Center 2	.402 GH	Iz		300	kHz/			Spa	ın 3 MHz		
Date: 21	1.JUN.20	021 13	:11:21								

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Pi/4D-QPSK M	Iodulatio	on									
Product:		Blueto	ooth earph	one	7	Test Mode:		Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting	Т	est Voltage					
Temperature		2	4 deg. C,			Humidity		56% RH			
Test Result:	Pass 1.130MHz					Detector		PK			
20dB Bandwidth											
· Film		Marker	1 [T1 r	ndB]	RBW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB		00 dB	VBW		Hz 				
10 dBm		BW 1	.130260)52 MHz	SWT	8.5 m	s Ui	nit	dBm	•	
						v ₁		-3	.34 dBm	A	
0								2.44116	533 GHz		
					<u> </u>	ndE BW		1.13026	0.00 dB 5052 MHz		
-10				Λ	\	$\nabla_{\mathrm{T}1}$	[T1]	-22	3.88 dBm		
					\ \ \	- ^		2.44046	794 GHz		
-20			/				[T1]	-23	.73 dBm		
1 MAX			7			V 1	2	2.44159	820 GHz	1MA	
2.0		~					4				
-30			V								
-40	, / _^	\mathcal{M}					L.	~~~			
-50	*							,	3		
-60											
-70											
-80											
-90 Center 2	.441 G	Hz		300	kHz/			Spa	an 3 MHz		
Date: 21	l.JUN.2	2021 13	:12:58								

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Product:		Blueto	ooth earph	one		Test Mod	e:	Keep transmitting			
Mode			g Transmi			Test Volta	ge	DC3.7V			
Temperature		24 deg. C,					7	56% RH			
Test Result:			Pass			Detector		PK			
dB Bandwidth		1.									
r)		Marker	RBV	W 30	kHz	kHz RF Att 20			dB		
Ref Lvl		ndB		00 dB	VBW 100						dBm
10 dBm		BW 1	1.130260)52 MHz	SW	г 8.5	ms	. Unit c		dBm	
10						▼:	1 [T1]	1	.74 dBm	Α
0									2.48016	533 GHz	
					1	no			20	.00 dB	
1.0				\ \ \ /	\setminus	BV ▼,		1 1	1.13026 -25	052 MHz .91 dBm	
-10					\bigcup			Ĭ	2.47946	794 GHz	
			\wedge		\		(2 [T	1]	-25	.86 dBm	l
-20 1MAX			The state of the s	W			12 V		2.48059	820 GHz	1M2
-30			J								
-40	20	$\bigwedge \int$						w	\wedge	^_/	
-60		/ V									
-70											
-80											
-90											
Center 2	.48 GH:	Z	•	300	kHz/	•			Spa	n 3 MHz	9

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Date: 2021-06-28

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8QPSK Modula	ation									
Product:	Blue	tooth earph	one	-	Test Mode:		Keep tra	ansmitting		
Mode	Keep	ng Transmi	tting	Т	est Voltage					
Temperature			Humidity		56% RH					
Test Result:		Pass			Detector		PK			
20dB Bandwidth		1.166MHz								
		1 [T1 r		RBW	30 kl		F Att	20 dB		
Ref Lvl 10 dBm	ndB BW	20.	.00 dB	VBW SWT	100 kl 8.5 m:		nit	dBm		
10 dBiii	BW	1.100332	I MIIZ	SWI			I	QBIII		
				1	V 1		2.40203	.52 dBm	Α	
0					ndB BW V m1		1.16633	.00 dB		
-10		T/		\mathcal{M}		[T1] _2[T1]	-20 2.40144 -20	.82 dBm 990 GHz		
1MAX							2.40261	.623 GHz	1MA	
-40							\bigwedge	$\int \int$		
						~Λ	~			
-50										
-60										
-70										
-80										
-90 Center 2	.402 GHz		300	kHz/			Spa	an 3 MHz		
Date: 21	.JUN.2021 1	3:23:38								

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8QPSK Modula	ation									
Product:	Blueto	ooth earpho	ne		Test Mode:	:	Keep tra	ansmitting		
Mode	Keepin	g Transmit	ting		Test Voltage	e	DC3.7V 56% RH PK			
Temperature	2	4 deg. C,			Humidity					
Test Result:		Pass			Detector					
20dB Bandwidth	1	.166MHz								
		1 [T1 n		RBV		Hz R	F Att	20 dB		
Ref Lvl	ndB		00 dB	VBV		:Hz		15		
10 dBm	BW 1	1.166332	6/MHZ	SWI		ıs U	nit	dBm		
					V ₁	[T1]	-3 2.44103	.15 dBm	А	
0			Λ /	Ť	ndl BW	8	20 1.16633	.00 dB 267 MHz		
-10						[T1]	-23 2.44044 -22	.17 dBm 990 GHz .52 dBm		
-20 1MAX	/	<i>y</i> •••				Ÿ	2.44161	623 GHz	1MA	
-40										
-50	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					Jan.	\mathcal{N}	\mathcal{N}		
-60										
-70										
-80										
-90 Center 2.	441 GHz		300	kHz/			Sna	an 3 MHz		
		3:20:48	300	/			576	5 11112		

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Date: 2021-06-28



8QPSK Modul	ation									
Product:		Bluetooth earphone						Keep transmitting DC3.7V		
Mode		Keeping Transmitting				Test Voltage				
Temperature	24 deg. C, Pass					Humidity		56% RH PK		
Test Result:						Detector				
20dB Bandwidth	1.166MHz									
		Marker	1 [T1 r	ndB]	RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB	20.	.00 dB	VBW					
10 dBm		BW 1	1.166332	267 MHz	SWT	8.5 m	s U	nit	dBm	
10						v ₁	[T1]	_ <u>;</u>	.51 dBm	A
								2.48003	908 GHz	-
0					1	ndB	0	20	.00 dB	
				Λ /	7	BW V⊤1		1.16633	3267 MHz	
-10				1\2		1	<u>, L. L. J.</u>	2.47944	1990 GHz	
			\sim		$ \mathcal{M} $	\wedge		-25	3.20 dBm	
-20			7/		\	WA A /	12	2.48061	623 GHz	4.42
-30			<i>J</i>				Y			1MA
-40	\wedge	>						\sim	Λ.	
-60	لمر							W.		
-70										
-80										
-90	40. 27				1 /				2	
Center 2				300	kHz/			Spa	an 3 MHz	
Date: 21	.JUN.2	021 13	:17:05							

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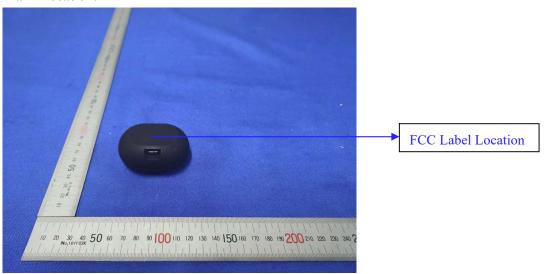


10.0 FCC ID Label

FCC ID: 2AHN6-AUBE217

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:



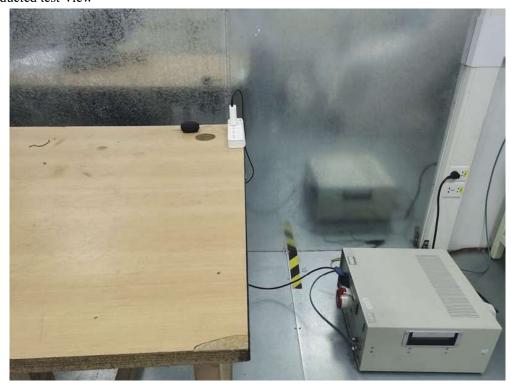
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11.0 Photo of testing

11.1 Conducted test View--



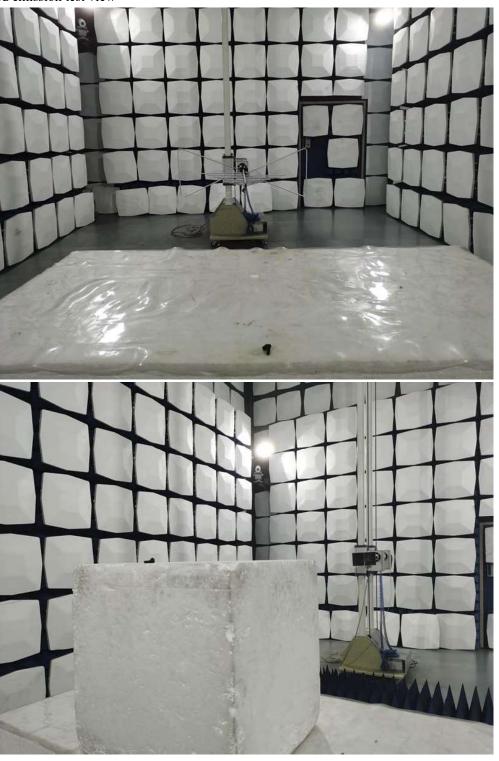
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Radiated emission test view



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

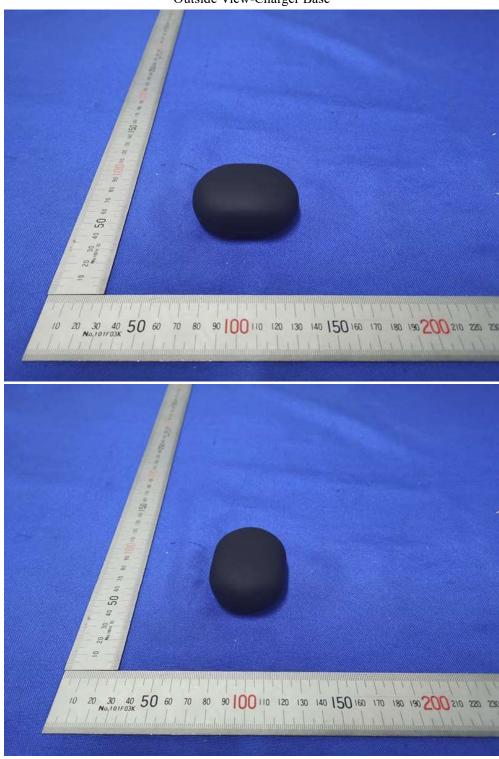
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11.2 Photographs – EUT

Outside View-Charger Base



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Photographs - EUT

Outside View-Charger Base



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

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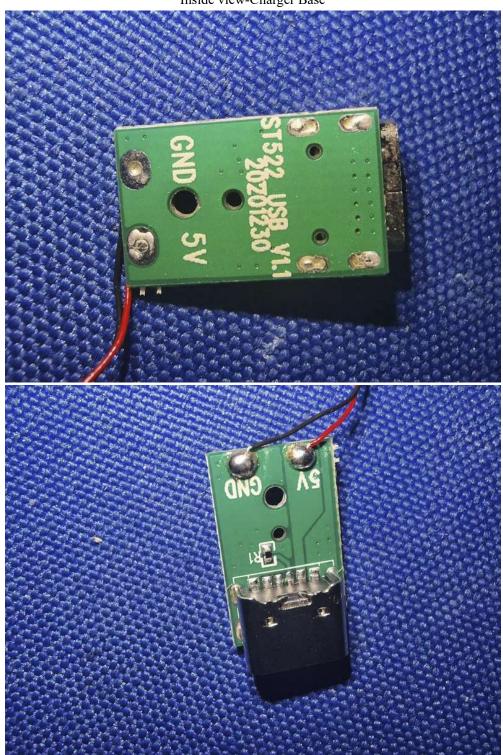
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Inside view-Charger Base



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adopt any other remedies which may be appropriate.

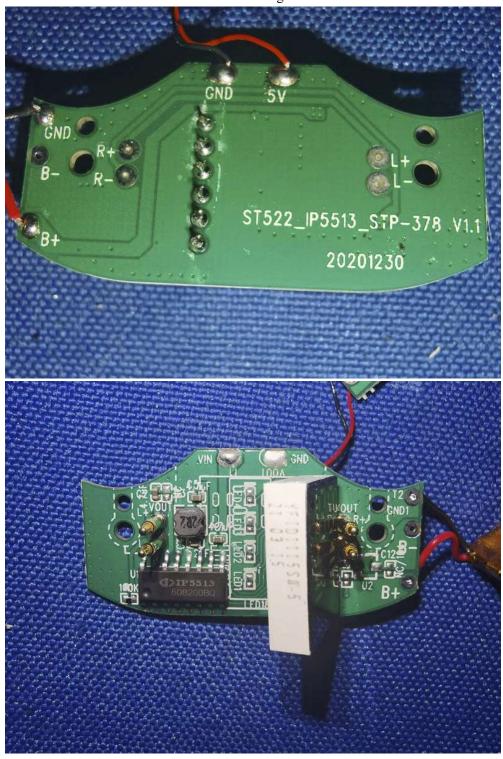
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Date: 2021-06-28



Inside view-Charger Base



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

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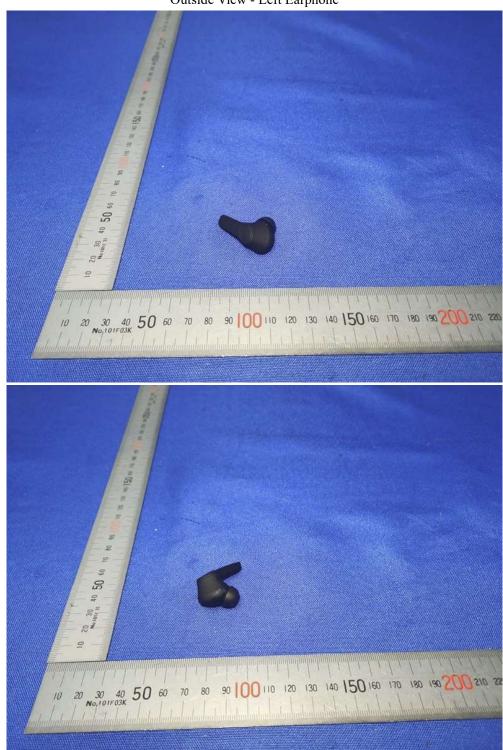
Inside view-Charger Base



Date: 2021-06-28



Outside View - Left Earphone



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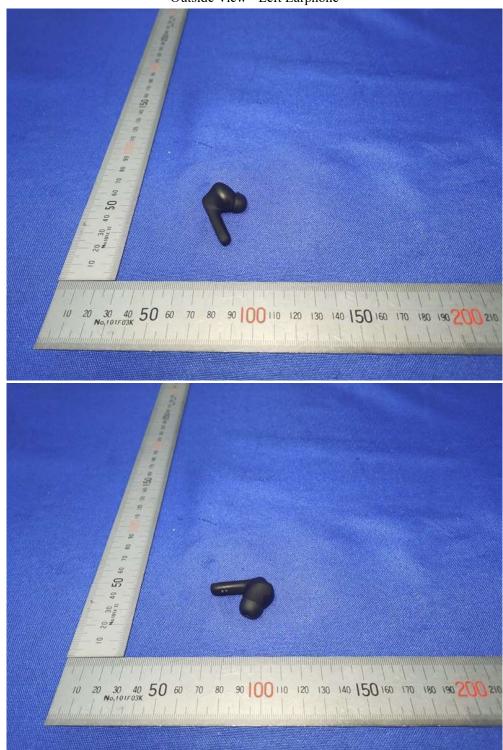
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Outside View - Left Earphone



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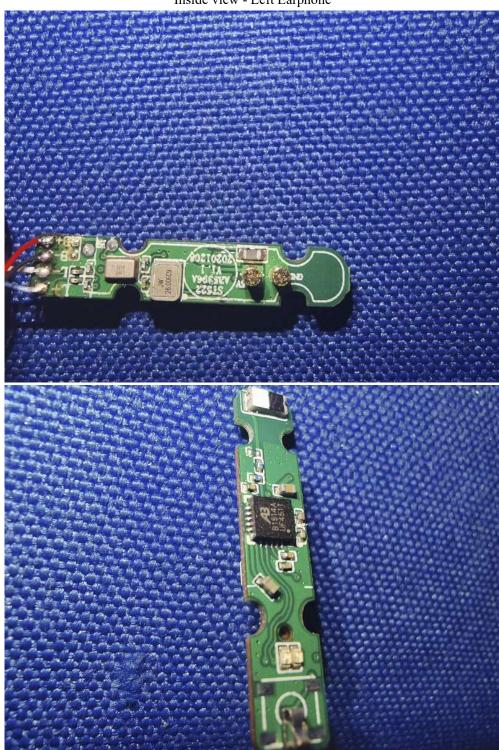
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Inside view - Left Earphone



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Inside view - Left Earphone



Date: 2021-06-28



Outside View - Right Earphone



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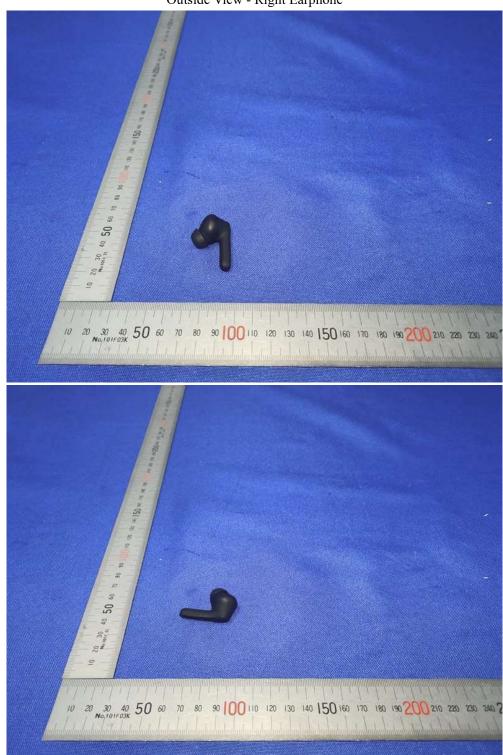
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Outside View - Right Earphone



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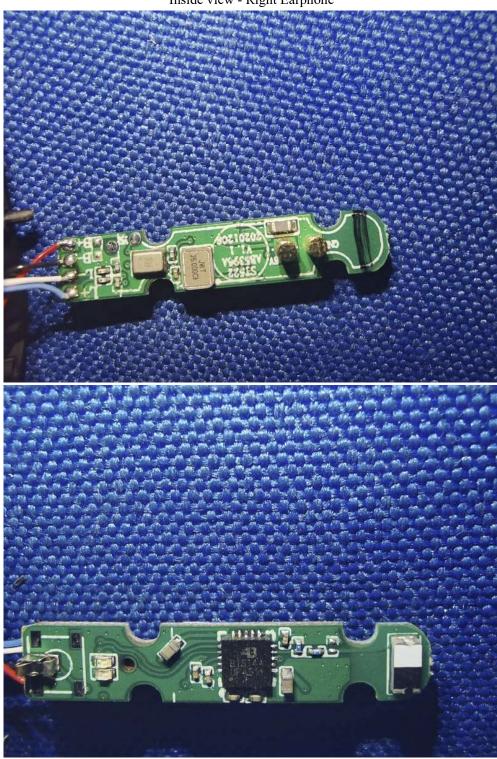
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Inside view - Right Earphone



-- End of the report--

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