



Report No.: File reference No.:	TW2104223E 2021-04-30
Applicant:	STARLINE USA INC.
Product:	EARBUDS
Model No.:	EL203
Brand Name:	N/A

Test Standards: FCC Part 15.249



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:

April 30, 2021

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

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



# **Special Statement**:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

# CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

# FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

# Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

# A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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#### 1.0 General Details

1.1 Test Lab Details

Name :SHENZHEN TIMEWAY TESTING LABORATORIES.Address:Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le<br/>Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number:744189For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant:STARLINE USA INC.Address:3036 Alt Blvd. Grand Island, New York 14072 USATelephone:--Fax:--

1.3 Description of EUT

Product:	EARBUDS
Manufacturer:	Leader Premiums Limited
Address:	9/F., Hengfu Mansion, No.858, Fuming Road, Ningbo, China
Brand Name:	N/A
Model Number:	EL203
Additional Model Name	N/A
Hardware Version:	TW23-6963A V1.0
Software Version:	2020-sdkv1.1
Serial No.:	LR12
Rating:	DC5V, 300mA or Built-in DC3.7V, 30mAh, Li-ion battery
Modulation Type:	GFSK, Pi/4D-QPSK
Operation Frequency:	2402-2480MHz
Channel Separate:	1MHz
Channel Number:	79
Antenna Designation	Chip antenna with gain -0.58dBi Max (Get from the antenna specification
	provided by the applicant)

1.4 Submitted Sample: 1 Sample

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- 1.5 Test Duration 2021-04-14 to 2021-04-30
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

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	ESPI Test Receiver R&S		100379	2020-06-23	2021-06-22		
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22		
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22		
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24		
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22		
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22		
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08		
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22		
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22		
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03		
9*6*6 Anechoic			N/A	2020-07-06	2021-07-05		
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22		
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22		
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22		
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22		
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15		
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2020-06-23	2021-06-22		
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22		
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22		
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05		

#### 2.2 Automation Test Software

For Conducted Emission Test

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

#### For Radiated Emissions

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

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#### **3.0** Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to	o the following speci	fications:	
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) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

#### 3.2 Test Standards

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

#### 4.0 EUT Modification

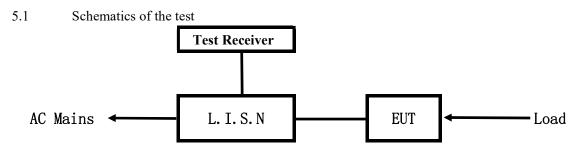
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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# 5. Power Line Conducted Emission Test

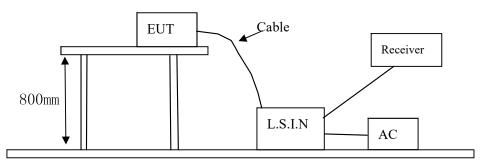


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10 –2013. AC 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. One channels are provided to the EUT

A.	EUT			
	Device	Manufacturer	Model	FCC ID
	EARBUDS	Leader Premiums Limited	EL203	2AXR6-EL203

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B. Internal Device

5.				
	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 Lev 1			
$0.15~\sim~0.50$	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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Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Charging and Communication by BT Model: EL203 **Results: PASS** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B\_QP 60 5 EE-Class B AV 50 40 30 20 peak peak AVG 10 0 -10 -20 30.000 0.150 (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5205	28.04	9.77	37.81	56.00	-18.19	QP	Ρ
2	0.5205	22.54	9.77	32.31	46.00	-13.69	AVG	Ρ
3	1.2030	15.85	9.79	25.64	56.00	-30.36	QP	Ρ
4	1.2030	7.97	9.79	17.76	46.00	-28.24	AVG	Ρ
5	3.9321	13.29	9.88	23.17	56.00	-32.83	QP	Ρ
6	3.9321	5.85	9.88	15.73	46.00	-30.27	AVG	Ρ
7	11.7399	13.21	10.24	23.45	60.00	-36.55	QP	Ρ
8	11.7399	5.31	10.24	15.55	50.00	-34.45	AVG	Ρ

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Conducted Emission on Neutral Terminal (150kHz to 30MHz) **B**: **EUT Operating Environment** Atmospheric Pressure: 101 kPa Temperature: 25°C Humidity: 65%RH EUT set Condition: Charging and Communication by BT Model: EL203 **Results: Pass** Please refer to following diagram for individual dBuV 80.0 70 FCC Part15 CE-Class B\_QP 60 5 CE-Class B AV 50 40 30 peak 20 Aher AVG 10 0 -10 -20 0.150 (MHz) 30.000 Frequency Reading Factor Level Limit Margin No. P/F Detector (dB)(MHz) (dBuV) (dB) (dBuV) (dBuV) 0.5205 24.71 9.77 34.48 -21.52 QP Ρ 1 56.00 2 Ρ 0.5205 15.21 9.77 24.98 46.00 -21.02 AVG 3 0.8676 12.54 9.79 22.33 56.00 -33.67 QP Ρ 4 0.8676 -1.409.79 8.39 46.00 -37.61 AVG P Ρ 5 QP 2.1741 13.25 9.81 23.06 56.00 -32.94

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1.35

9.20

1.60

9.81

10.27

10.27

11.16

19.47

11.87

46.00

60.00

50.00

-34.84

-40.53

-38.13

AVG

QP

AVG

P

Ρ

Ρ

2.1741

12.4731

12.4731

6

7

8

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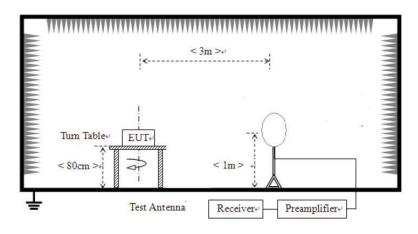


#### 6 Radiated Emission Test

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

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

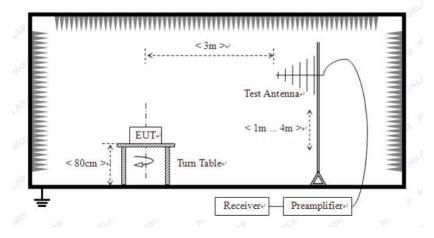


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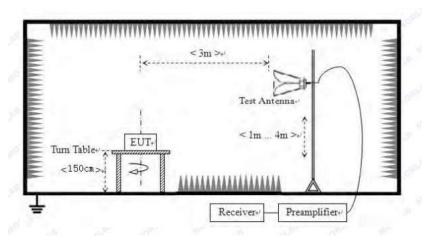
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.

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# 6.4 Radiated Emission Limit

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

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

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

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 $\mu$ 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 and Pi/4D-QPSK, were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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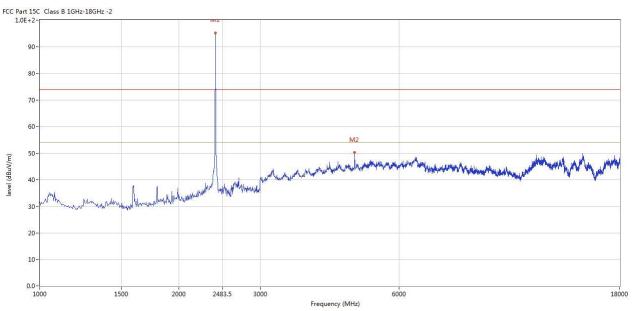


### 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal

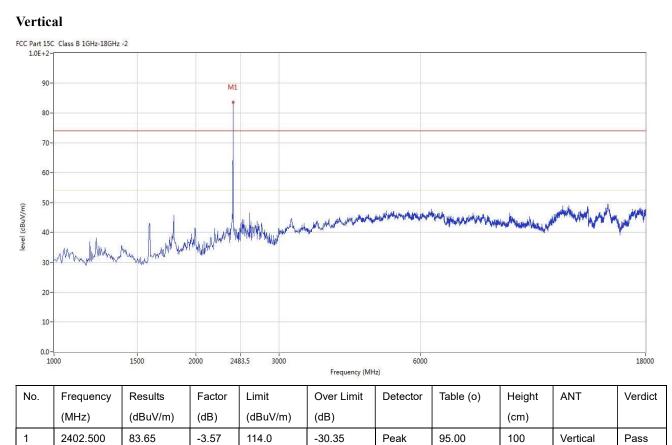


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	95.28	-3.57	114.0	-18.72	Peak	135.00	100	Horizontal	Pass
1*	2402.500	84.73	-3.57	94.0	-9.27	AV	135.00	100	Horizontal	Pass
2	4803.750	50.30	3.13	74.0	-23.70	Peak	333.00	100	Horizontal	Pass

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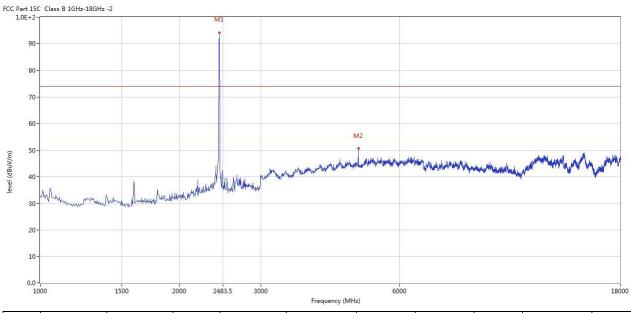
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### Please refer to the following test plots for details: High Channel-2441MHz

#### Horizontal

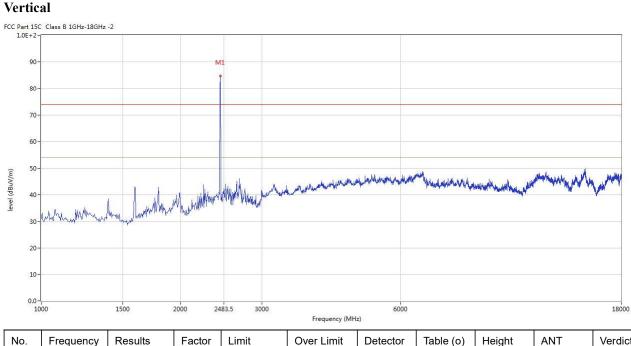


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	94.21	-3.57	114.0	-19.79	Peak	144.00	100	Horizontal	Pass
1*	2440.750	83.68	-3.57	94.0	-10.32	AV	144.00	100	Horizontal	Pass
2	4880.250	51.74	3.20	74.0	-22.26	Peak	338.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	84.84	-3.57	114.0	-29.16	Peak	145.00	100	Vertical	Pass

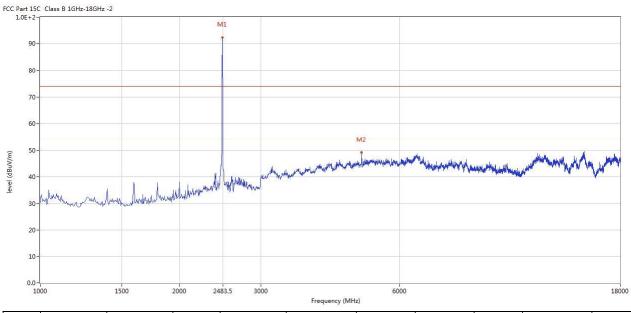
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#### Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

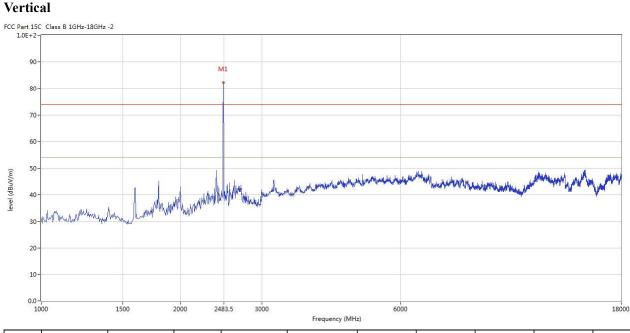


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.250	92.34	-3.57	114.0	-21.66	Peak	127.00	100	Horizontal	Pass
2	4961.000	49.16	3.36	74.0	-24.84	Peak	145.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.250	82.36	-3.57	114.0	-31.64	Peak	77.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(3) Margin=Emission-Limits

- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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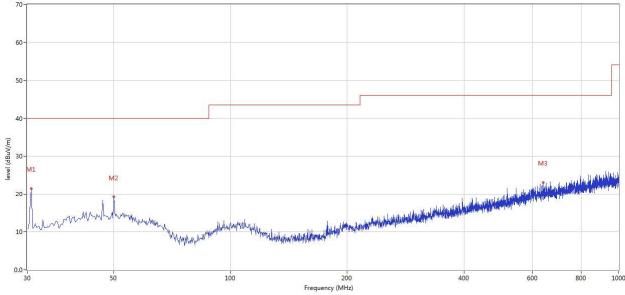
# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	30.727	21.54	-14.51	40.0	-18.46	Peak	54.00	100	Horizontal	Pass
2	50.122	19.31	-11.38	40.0	-20.69	Peak	69.00	100	Horizontal	Pass
3	638.038	23.06	-4.72	46.0	-22.94	Peak	0.00	100	Horizontal	Pass

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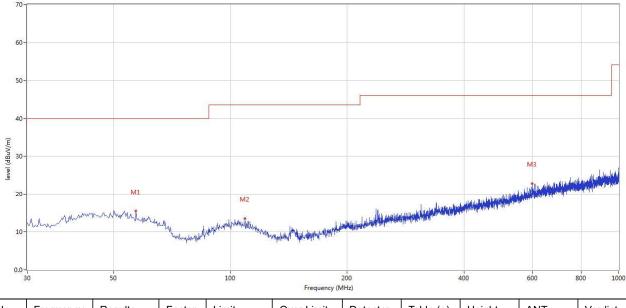
### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No	Frequen	cy Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	57.153	15.57	-12.37	40.0	-24.43	Peak	220.00	100	Vertical	Pass
2	109.035	13.56	-13.53	43.5	-29.94	Peak	96.00	100	Vertical	Pass
3	597.793	22.79	-5.10	46.0	-23.21	Peak	237.00	100	Vertical	Pass

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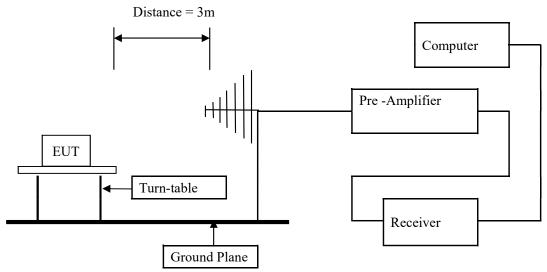


### 7. Band Edge

### 7.1 Test Method and test Procedure:

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

# 7.2 Radiated Test Setup



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

#### 7.3 Configuration of The EUT

Same as section 5.3 of this report

# 7.4 EUT Operating Condition

Same as section 5.4 of this report.

#### 7.5 Band Edge Limit

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

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### 7.6 Test Result

_	Product:		EA	ARBUDS		Pola	arity		Horizonta	al
	Mode		Keepin	g Transmitt	ing	Test V	/oltage		DC3.7V	r
Te	mperature		24	4 deg. C,		Hum	nidity		56% RH	[
Te	est Result:			Pass		-				
C Part 1.0E+	15C Class B 1GHz-18GH	łz -2								
1.064	-2-								$\wedge$	
9	90-								-/	
8	30-								-/	
7	70-									1
é	50 -									1
							M3	lle ille	M2	1
								A STATE OF THE OWNER OF	N	1.1
	50-				L. L. Marke		walling add to the full of the second			A WANT AND
		with the approximation of the second	Harappen Language atte	ayah da sala sala sa	with the state of	- Internet description	ngalan adapating	and the second	•	Annual Applied
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2	50 - 40 - <mark>Hangth dalah </mark>	ulight a fittle a lite of the action	hler gans hi paparan en en fa	hy he has the state of the stat	northern the stand with the	ng helenese i den de i de	ngalana saya di dara sa		•	James Alla
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2	20-	utighet a ferste rad in spiriteraad	forgesidderer or offi	ingelegiseter son and a son and			ngalitan badi yiki tili tarasari		•	
2	20 - 10 -	ust by the approximate the second second	hlorganishteinen unter	is here the second s	Frequency		n na linn a star a s		•	
2 3 1 1 0	20 - 10 -	Results	Factor	Limit			Table (o)	Height	ANT	
2 3 1 1 0	20- 10- 	1			Frequency	, (MHz)	1		ANT	2
2 2 1 0 <b>1</b>	20- 10- 2350 Frequency	Results	Factor	Limit	Frequency Over Limit	, (MHz)	1	Height	ANT Horizontal	2
2 3 1	80- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency Over Limit (dB)	(MHz) Detector	Table (o)	Height (cm)		

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F	Product:		EA	ARBUDS		Detect	or		Vertical	
	Mode		Keeping	g Transmitti	ing	Test Vol	tage		DC3.7V	
Ter	mperature		24	4 deg. C,		Humid	ity		56% RH	
Te	st Result:			Pass						
C Part 15 1.0E+2	5C Class B 1GHz-18GHz	-2								
1.06+2										
90	)-								M1	
80	)-								-	
70	)-								$f \rightarrow f$	
60								/		
	2 T C							1	1	
						6	MS	M2		
	)-	7.7.7					MS Traditional and			
	at wat with the one of	uppel al we de la constant de la		ALL ANNESSES ALLOWERS	utiple manufle to be the state of	harden				hadara the state of the state o
		under all and mental all		hip man baldhoval og	hilling and a shall be done of	na harringa na da ha da				hadarata da julija je
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50 40	)- <mark>Hangkhang H</mark> ag <mark>h</mark> had lankai )-	nan an	usia la factoria da factoria	h ha analog ba dhadal ay	hallante and the sheet of the she	lauterreisen der her hide				Normality
50 40 30	)- <mark>4  444  444  444  444  444  444  444 </mark>	yanlah <del>a Madanisha</del> da			halingia manana di kabalika kabalika ka	hardbaraatin dadan hadd		AND		hann at a star a st
50 40 30 20 10	3 - <mark>Wantu Mana Mana Mana Mana Mana Mana Mana Man</mark>	nan an	sindarlaffit (seabaided	A for an instant detailed of	hall an	landers and a second				2410
50 40 30 20 10		y waa a sha ahaa ahaa ahaa ahaa ahaa ahaa			Frequency (MH					2410
50 40 30 20 10	3 - <mark>Wantu Mana Mana Mana Mana Mana Mana Mana Man</mark>	Results	Factor	Limit	Frequency (MF	Iz) Detector	Table (o)	Height	ANT	0104030999
50 40 30 20 10 0.0 2	)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	1		Table (o)	Height (cm)	ANT	0104030999
50 40 30 20 10 0.0.2					Over Limit		Table (o) 150.00	-	ANT	0104030999
50 40 30 20 10 0.0 2	Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	Over Limit (dB)	Detector		(cm)		Verdict

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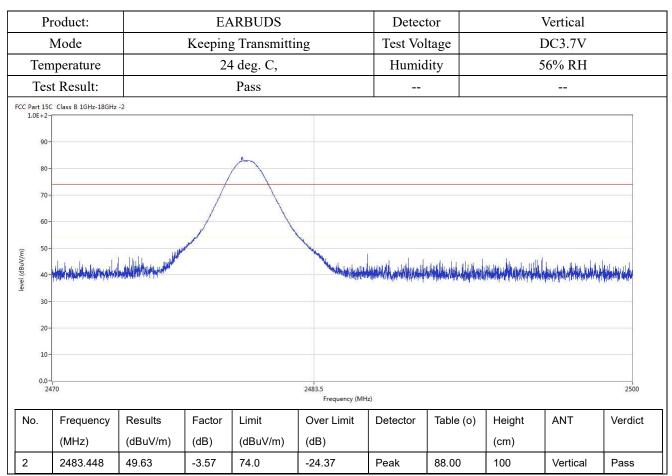


Pr	roduct:		EA	ARBUDS		Polari	ty		Horizontal	
l	Mode		Keeping	g Transmitti	ing	Test Vol	tage		DC3.7V	
Tem	nperature		24	4 deg. C,		Humid	ity		56% RH	
Test	t Result:			Pass						
CC Part 15C 1.0E+2-r	C Class B 1GHz-18GHz	-2								
90-			/	$\frown$						
80-										
70-	2									
			1		1					
60-		1			1					
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(au 50 - (au 70 - 30 - 20 - 10 -					M2 We had head head head head head head head	halvelslumson cashe lanyok	eli shiki ya katalada ya kuwa	the process of the forth state of the	nddhoengen allo nedag fache	the line sector of the
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(au 50 - (au 70 - 30 - 20 - 10 -		Results	Factor	Limit	2493.5		Table (o)	Height	ANT	
20- 0.0 24	770		Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MH	z)				2500
20- 0.0 24	Frequency	Results			2483.5 Frequency (MH Over Limit	z)		Height		2500

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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 and Pi/4D-QPSK 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 -0.58dBi Max. It fulfills the requirement of this section. Test Result: Pass

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<b>FSK Modulation</b>										
Product: EARBUDS					Test Mode:		Keep transmitting			
Mode		g Transmitting			st Voltage	DC3.7V				
Temperature	4 deg. C,			Humidity Detector		56% RH PK				
Test Result:	Pass									
20dB Bandwidth	8	371.74kHz	Z						-	
Ref Lvl	ndB		.00 dB	VI	BW BW	30 kH 100 kH	Hz	F Att	20 dB	
10 dBm 10	BW 871	1.743480	o9/ kHz	SI	νT	8.5 ms	s U:	nit	dBn	n
				1		▼1		-0 2.40201	.48 dBm 503 GHz	A
0			$\bigwedge$			ndB BW	81	20 1.74348	.00 dB 697 kHz	
-10				~ (	$\mathbf{\lambda}$	$\nabla_{\mathrm{T1}}$	<u>[T1]</u>	-20	.12 dBm	
		0	$\sim$		Y	$\gamma$		2.40157	615 GHz	
-20						T2 <sup>V</sup> T2	[T1]	-20	.45 dBm	
1MAX								2.40244	790 GHz	1M
-30		<u>c</u>					The second se	0		
-40							Ś		M	~
-60	_									
-70										
- 80										
-90										
Center 2.402	GHz		300	kHz/	·			Spa	an 3 MHz	

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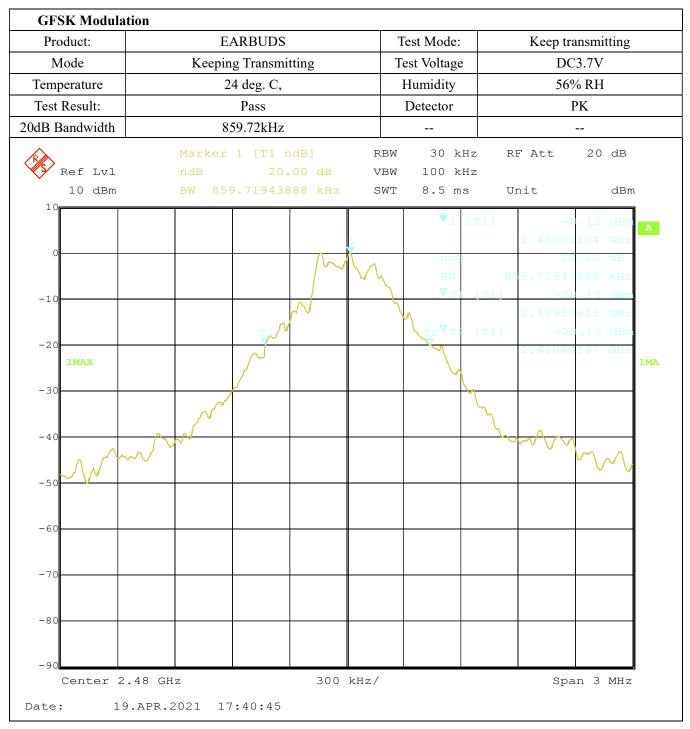




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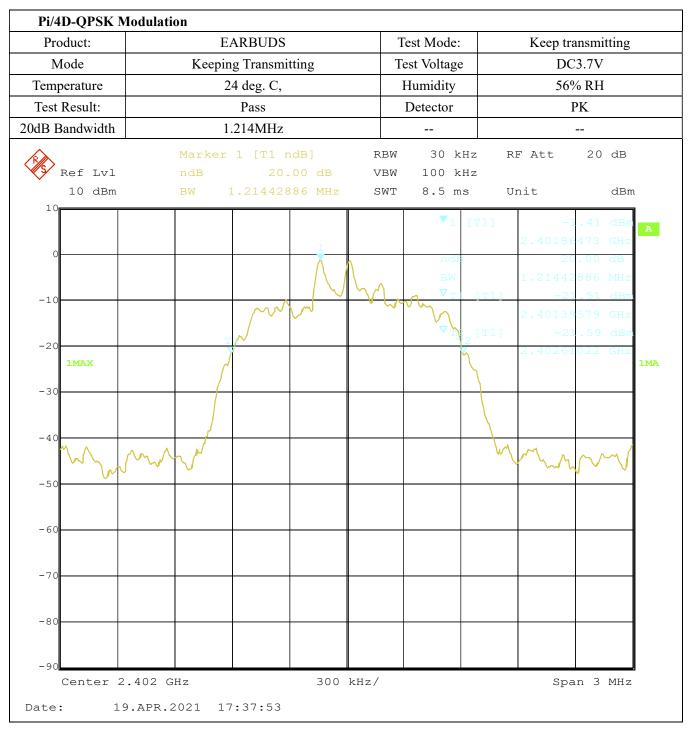




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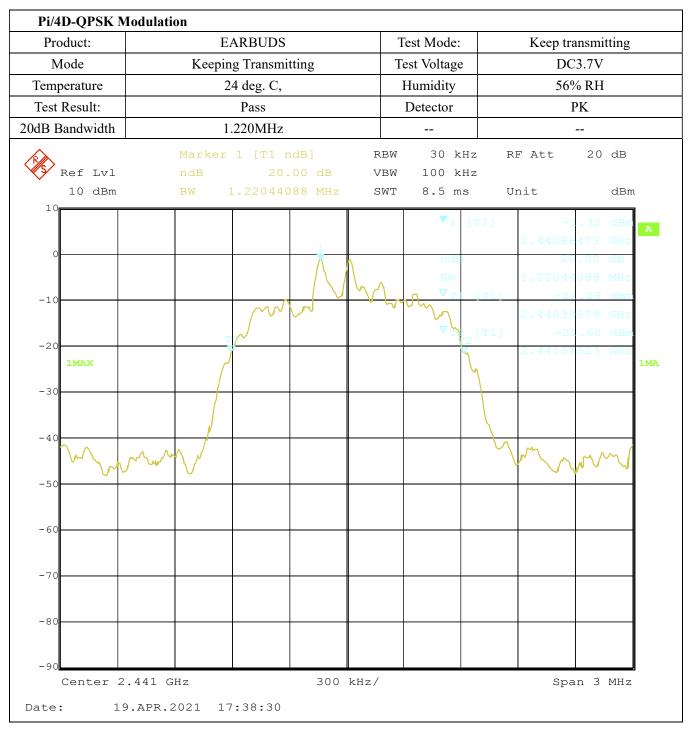




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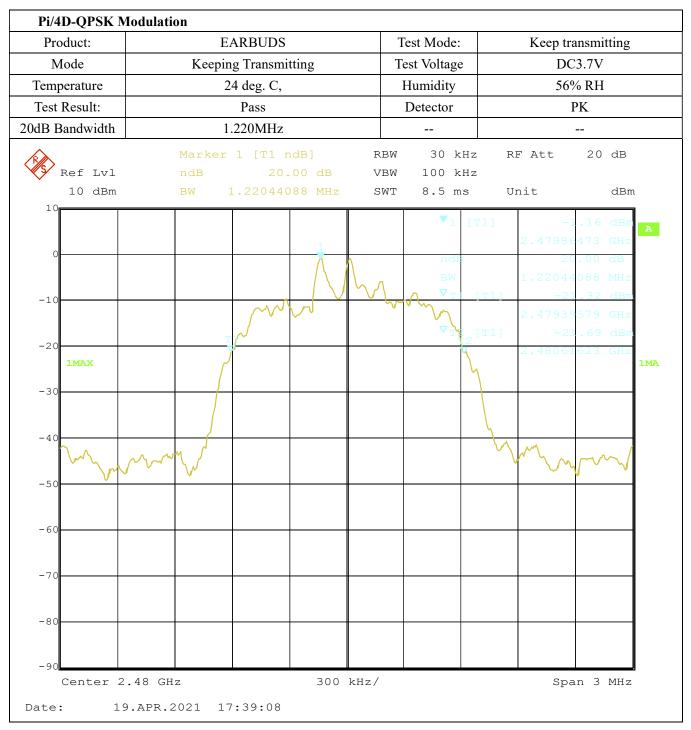




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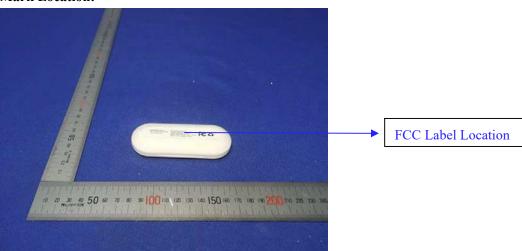


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#### 10.0 FCC ID Label

#### FCC ID: 2AXR6-EL203

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:**

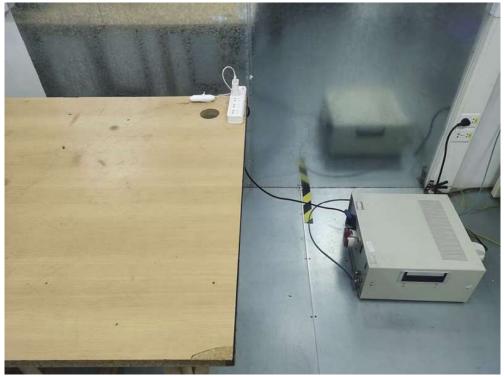
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#### 11.0 Photo of testing

11.1 Conducted test View

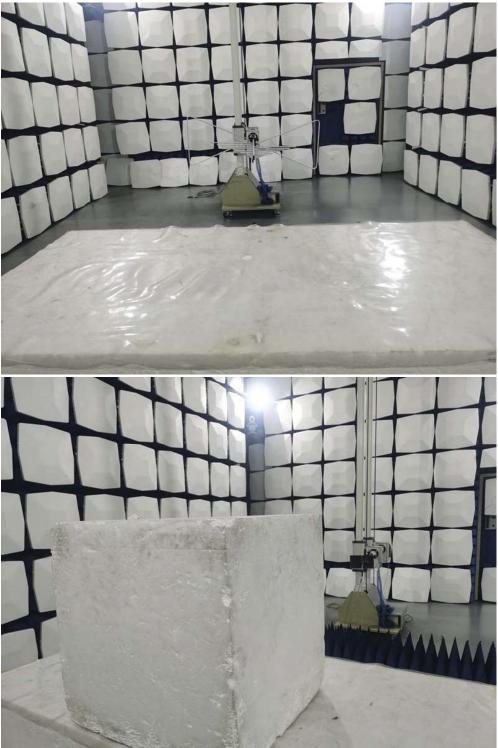


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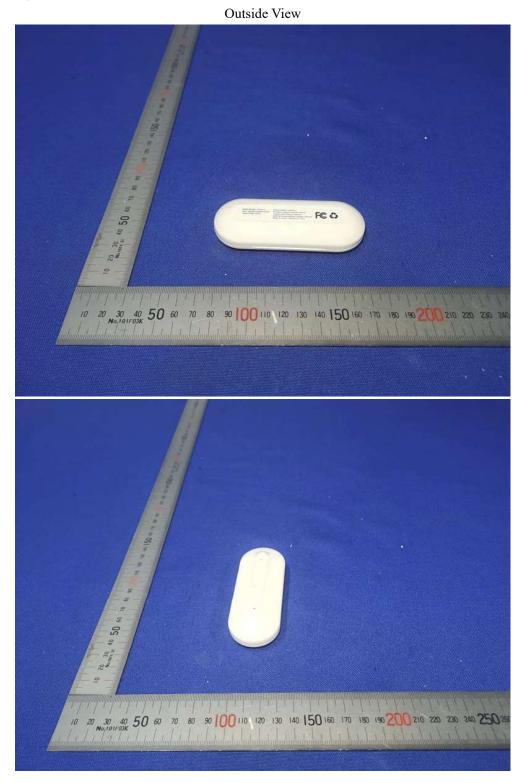
Radiated emission test view



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#### 11.2 Photographs – EUT

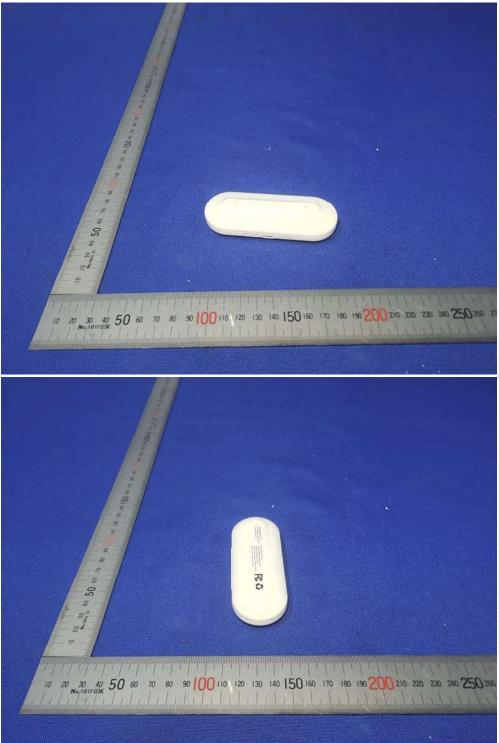


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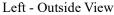
Outside View

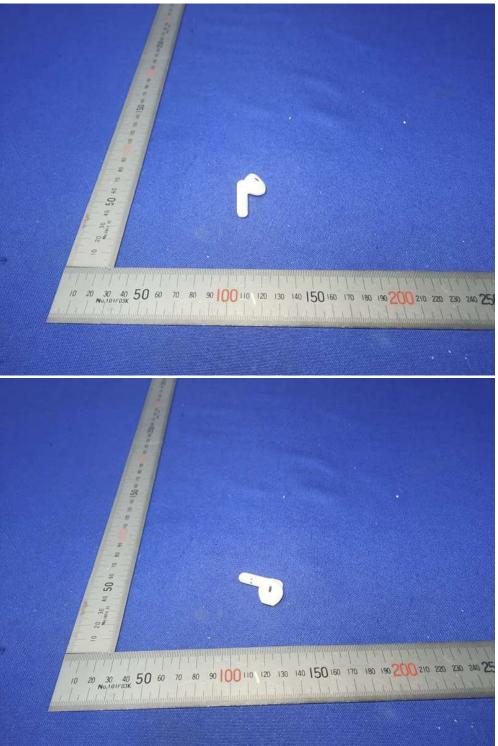


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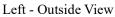


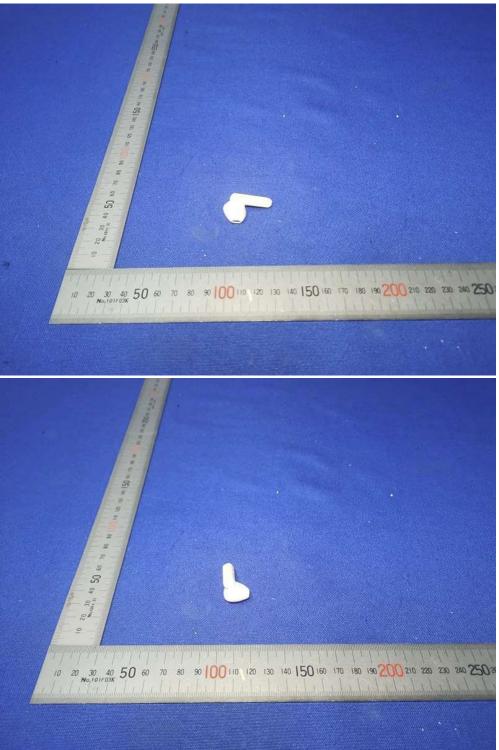


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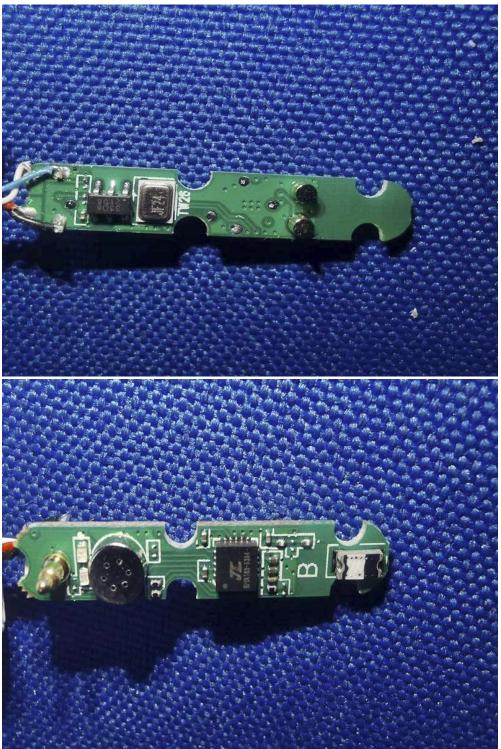


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#### Left - Inside View



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#### Left - Inside View

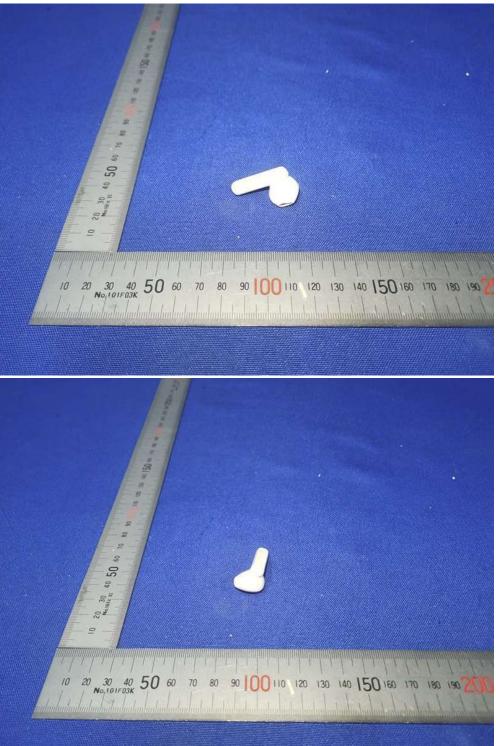


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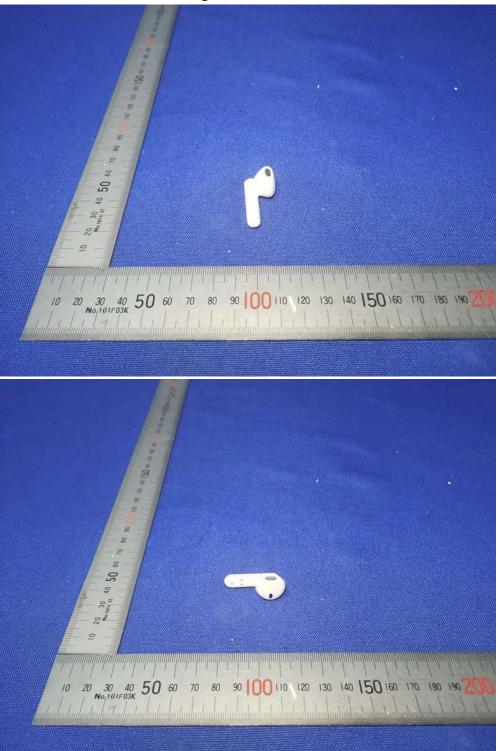


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Right - Outside View

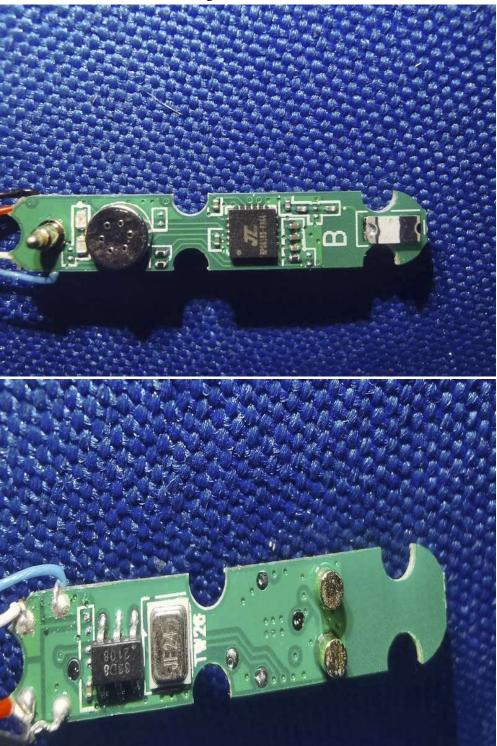


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Right - Inside View



--End of the report--

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