



Report No.: FCC2003150 File reference No.: 2020-03-31

Applicant: LEADER PREMUIMS LIMITED

Product: TWS BLUETOOTH WIRELESS EARBUDS

Model No.: AF0031

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 C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: March 30, 2020

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

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

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

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Special Statement:

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

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

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

CNAS-LAB Code: L2292

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

FCC-Registration No.: 744189

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

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

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

A2LA (Certification Number:5013.01)

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

Date: 2020-03-31



Test Report Conclusion

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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: Leader Premiums Limited

Address: 9/F., Hengfu Mansion, NO.858. Fuming Road, Ningbo, China

Telephone: 15968956709

Fax: --

1.3 Description of EUT

Product: TWS BLUETOOTH WIRELESS EARBUDS

Manufacturer: Dongguan Leaper Electronic Technology CO.,LTD
Address: 4th floor No.9 New District, Fumin Industrial Zone,

Dalang new town, Dongguan City

Brand Name: N/A
Model Number: AF0031
Additional Model Name N/A

Input Voltage: Input: DC5V, 0.4A, Output: DC5V, 0.3A Modulation Type: GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation Chip antenna with gain 2.58dBi Max

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2020-03-18 to 2020-03-31

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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

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2019-06-21	2020-06-20
LISN	R&S	EZH3-Z5	100294	2019-06-21	2020-06-20
LISN	R&S	EZH3-Z5	100253	2019-06-21	2020-06-20
Ultra Broadband ANT	R&S	HL562	100157	2019-06-21	2020-06-20
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2019-06-21	2020-06-20
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2019-06-21	2020-06-20
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2021-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2019-08-22	2020-08-21
Power sensor	Anritsu	MA2491A	32263	2019-08-22	2020-08-21
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	2019-06-21	2020-06-20
EMI Test Receiver	RS	ESH3	860904/006	2019-06-21	2020-06-20
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2019-06-21	2020-06-20
Spectrum	HP/Agilent	E4407B	MY50441392	2019-06-21	2020-06-20
Spectrum	RS	FSP	1164.4391.38	2020-01-18	2021-01-17
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2019-06-21	2020-06-20
RF Cable	Zhengdi	7m		2019-06-21	2020-06-20
RF Switch	EM	EMSW18	060391	2019-06-21	2020-06-20
Pre-Amplifier	Schwarebeck	BBV9743	#218	2019-06-21	2020-06-20
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2019-06-21	2020-06-20
LISN	SCHAFFNER	NNB42	00012	2020-01-07	2021-01-06

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Technical Details 3.0

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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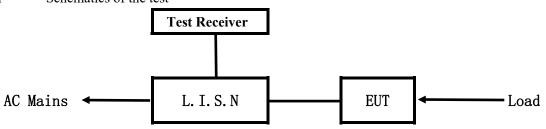
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

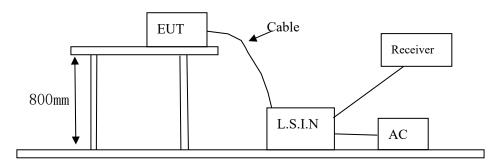


EUT: Equipment Under Test

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.

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
TWSBLUETOOTH	Dan acquar I con an Electronic		
WIRELESS	Dongguan Leaper Electronic	AF0031	2APYY- AF0031
EARBUDS	Technology CO.,LTD		2APYY- AF0031

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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 15.107 and 15.207

Engagement (MHz)	Class A Lir	nits (dB µ V)	Class B Lim	nits (dB µ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0		
5.00 ~ 30.00	73.0	60.0	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

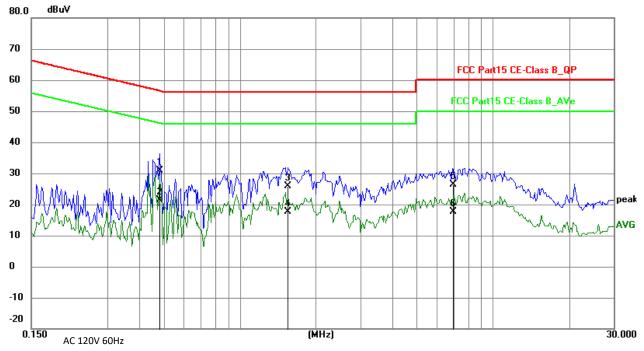
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication 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	0.4815	21.19	9.77	30.96	56.31	-25.35	QP	Р
2	0.4815	11.65	9.77	21.42	46.31	-24.89	AVG	Р
3	1.5462	16.07	9.80	25.87	56.00	-30.13	QP	Р
4	1.5462	7.75	9.80	17.55	46.00	-28.45	AVG	Р
5	6.9312	16.48	10.01	26.49	60.00	-33.51	QP	Р
6	6.9312	7.56	10.01	17.57	50.00	-32.43	AVG	Р

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

EUT Operating Environment

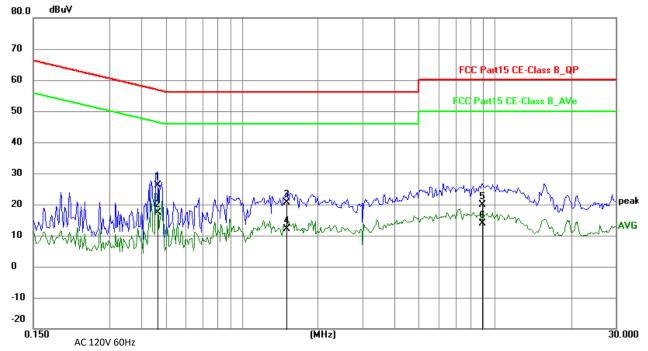
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication 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	0.4659	16.47	9.77	26.24	56.59	-30.35	QP	Р
2	0.4659	7.69	9.77	17.46	46.59	-29.13	AVG	Р
3	1.4994	10.77	9.79	20.56	56.00	-35.44	QP	Р
4	1.4994	2.35	9.79	12.14	46.00	-33.86	AVG	Р
5	8.9045	9.72	10.11	19.83	60.00	-40.17	QP	Р
6	8.9045	3.69	10.11	13.80	50.00	-36.20	AVG	Р

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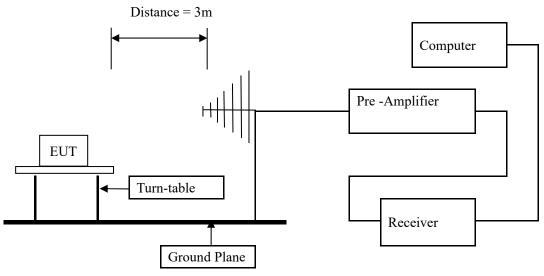
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6 Radiated Emission Test

- 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



- 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	ental (3m)	Field S	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/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.

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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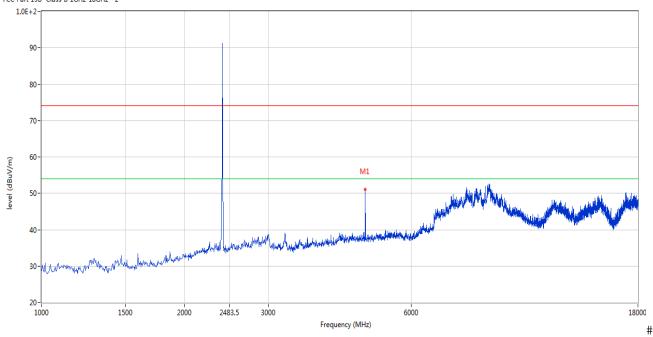
6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal

FCC Part 15B Class B 1GHz-18GHz - 2



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	4802.799	50.99	3.12	54.0	-3.01	Peak	242.00	100	Н	Pass
2	2402.052	90.95	-3.57	94.0	-3.05	Peak	297.00	100	Н	Pass

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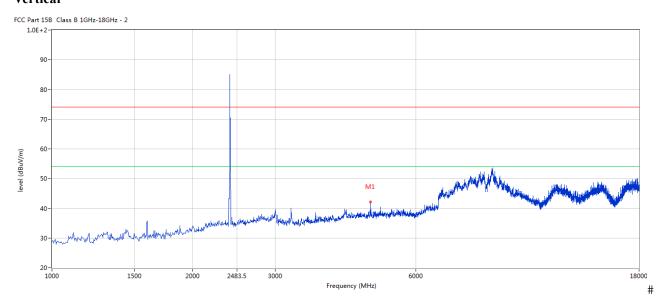
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Vertical



No	Ο.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1		4802.799	42.22	3.12	54.0	-11.78	Peak	168.00	100	٧	Pass
2		2402.052	86.77	-3.57	94.0	-7.23	Peak	341.00	100	V	Pass

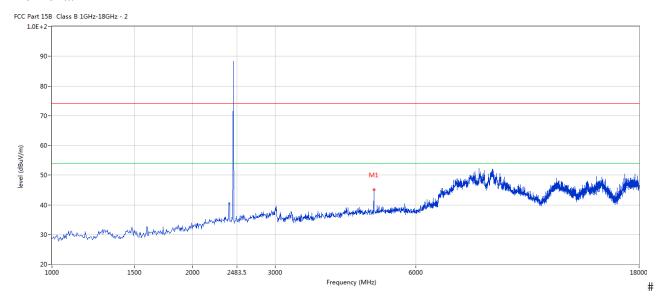
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4883.529	45.01	3.20	54.0	-8.99	Peak	241.00	100	Н	Pass
2	2441.128	89.27	-3.57	94.0	-4.73	Peak	310.00	100	Н	Pass

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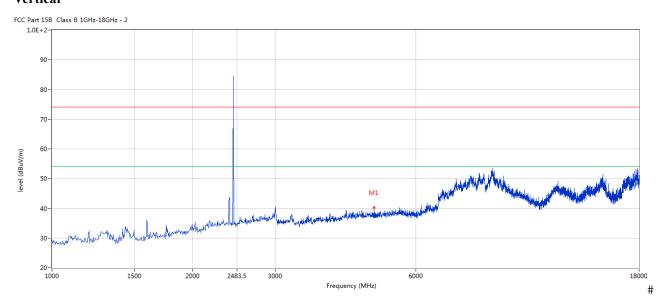
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4883.529	40.32	3.20	54.0	-13.68	Peak	0.00	100	٧	Pass
2	2441.152	85.83	-3.57	94.0	-8.17	Peak	303.00	100	V	Pass

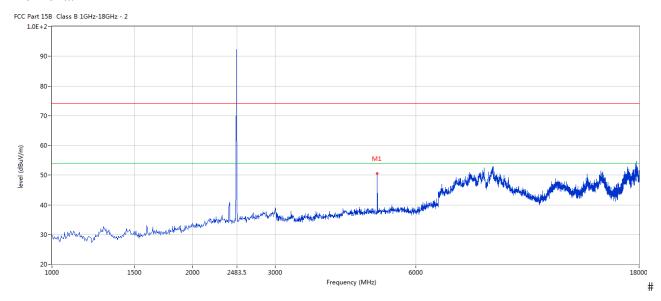
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4960.010	50.61	3.36	54.0	-3.39	Peak	197.00	100	Н	Pass
2	2480.016	92.07	-3.57	94.0	-1.93	Peak	202.00	100	Н	Pass

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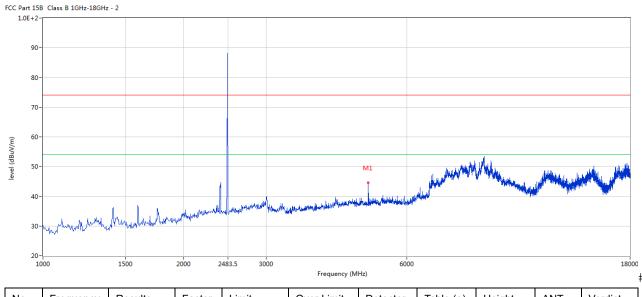
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4960.010	44.58	3.36	54.0	-9.42	Peak	356.00	100	٧	Pass
2	2480.016	88.35	-3.57	94.0	-5.65	Peak	132.00	100	٧	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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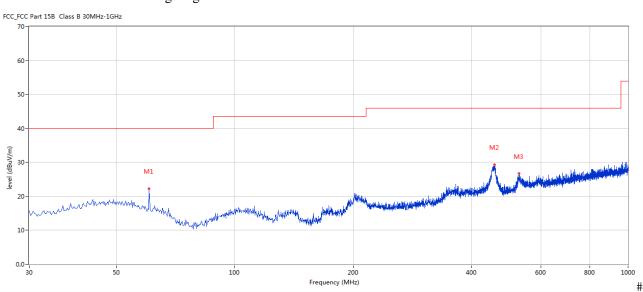


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	60.547	22.27	-13.03	40.0	-17.73	Peak	141.00	100	Н	Pass
2	456.936	29.36	-7.87	46.0	-16.64	Peak	286.00	200	Н	Pass
3	528.698	26.71	-6.59	46.0	-19.29	Peak	121.00	200	Н	Pass

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

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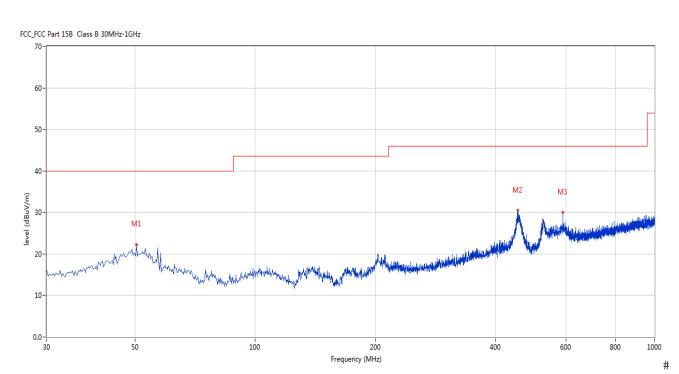


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	50.365	22.27	-11.39	40.0	-17.73	Peak	340.00	100	V	Pass
2	455.481	30.50	-7.99	46.0	-15.50	Peak	360.00	100	V	Pass
3	589.550	29.97	-5.09	46.0	-16.03	Peak	10.00	100	٧	Pass

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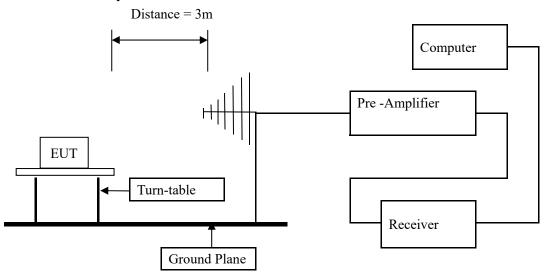


7. Band Edge

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.

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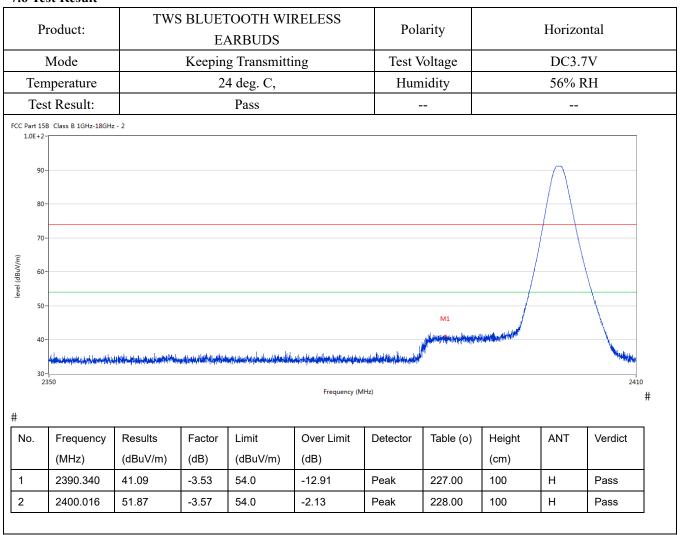
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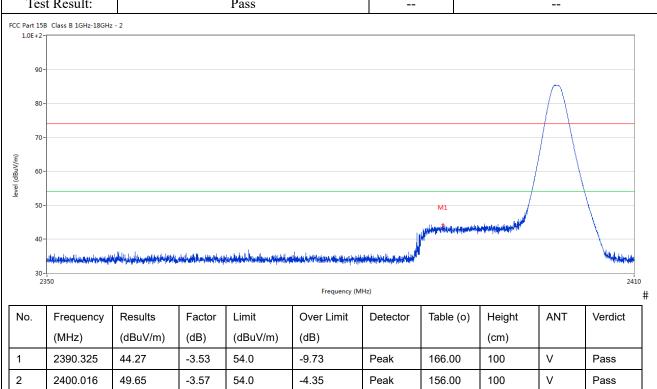
7.6 Test Result



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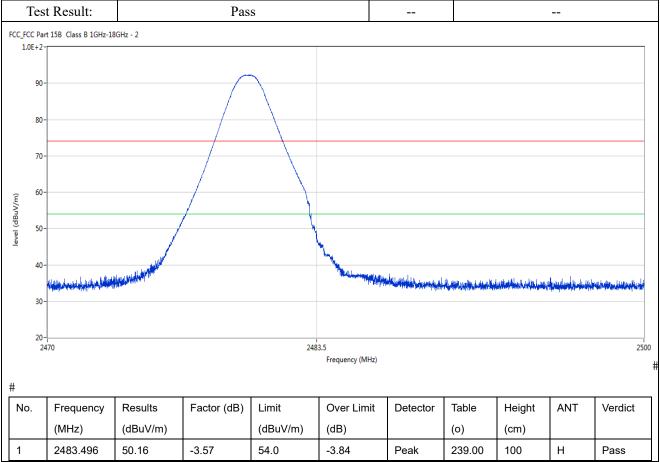
Product:	TWS BLUETOOTH WIRELESS EARBUDS	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
500 D 145D CL D 1011 10011			



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Product:	TWS BLUETOOTH WIRELESS EARBUDS	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



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	Product:	TWS		OOTH WII	RELESS	Detec	etor		Vertical	
	Mode emperature est Result: 15B Class B 1GHz-18GHz - 2 170- 160- 160- 160- 160- 160- 160- 160- 16		Keeping	g Transmitti	ing	Test Vo	ltage		DC3.7V	,
Te	emperature		24	deg. C,		Humio	dity		56% RH	[
T	est Result:			Pass						
1.0E [qBn/\m)	90- 80- 70- 60- 50-									
	30- 2470	A SALAN AND AND AND AND AND AND AND AND AND A			2483.5 Frequency (N		ordina vojekto delikari produkt			2500
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
140.	-		(dB)	(dBuV/m)	(dB)	Detector	Table (0)	(cm)	ANI	Voluiot
	1	 	 	•	+	t	 	 		+

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

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

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8.0 Antenna Requirement

Applicable Standard

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

This product has a Chip antenna. The antenna gain is 2.58dBi Max. It fulfills the requirement of this section. Test Result: Pass

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FSK Modulation Product:	TW			WIRELES	S	Те	est Mode:		Keep tran	ısmitting	
			ARBUDS								
Mode			ng Transm				st Voltage		DC3		
Temperature Temperature			24 deg. C,				Iumidity		56%		
Test Result: OdB Bandwidth		0	Pass 79.96MHz			Detector PK					
Odb Balldwidth											
Ref Lvl		arker dB	1 [T1 r	ndB] .00 dB		3W 3W	30 k 100 k		F Att	20 dB	
10 dBm	.959919			ИT	8.5 m		nit	dBm	ı		
10							v ₁	[T1]	1	.37 dBm	ĺ
					L			[11]	2.40201		Z
0				\wedge	<i>√</i> √		ndI	3	20	.00 dB	
				\sim	(7	BW		9.95991	984 kHz	
-10			~	/"		_\	$\nabla_{\mathbf{T}}$	[T1]	-18	.73 dBm	
			T.J				VY2	2 [T1]	2.40154 -18	008 GHz .84 dBm	
-20							V		2.40252	004 GHz	
1MAX			\mathcal{N}					4			1M
- 30	٨							7	Λ.		
-40		$\sqrt{}$									
-50 MMM								<u>~</u>	4	who	
-60										~	
-70											
-80											
-90											

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Product:	TW		TOOTH W ARBUDS	TRELESS		Т	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Te	est Voltage	;	DC	3.7V	
Temperature		2	4 deg. C,]	Humidity		569	% RH	
Test Result:			Pass				Detector]	PK	
0dB Bandwidth		97	9.96MHz								
Ref Lvl 10 dBm		ndB	1 [T1 n 20. 9.959919	00 dB	V	BW BW WT	30 k 100 k 8.5 m	Hz	F Att	20 dB	ı
10				000	<u></u>		v ₁	[T1]	2.44101	.14 dBm .503 GHz	A
-10				~ \		\sim	ndE BW ~ ∇ _{Ti}	97 L [T1]	20 9.95991 -15	.00 dB 984 kHz	
-20			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				T ₂	2 [T1]		008 GHz	l
1MAX		/	N					Ц.	2.44152	004 GHz	1M
-40	\sim							The state of the s	\sim		
		\bigvee						\ /	7		
-50 -60	V									My My	
-70											
-80											
-90 Center 2	.441 GF	Ηz		300	kHz/				Spa	ın 3 MHz	

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GFSK Modula	tion									
Product:	TW		TOOTH W ARBUDS	/IRELESS		Test Mode:		Keep tr	ransmitting	
Mode		Keepin	g Transmi	tting	-	Test Voltage		DO	C3.7V	
Temperature		2	4 deg. C,			Humidity		56	% RH	
Test Result:			Pass			Detector		PK		
0dB Bandwidth		97	9.96MHz							
Ref Lvl		ndB	1 [T1 r 20. 9.959919	.00 dB	RBW VBW SWT	30 kl 100 kl 8.5 m	Hz	F Att	20 dB dBm	
10				\sim	M _E	V ₁	[T1]	2.4800		A
-10			0/	<u></u>	<u></u>	ndB BW ▼ _{T1}	97 [T1]	2) 9.95993 -1		
-20			T			T2 VT2	[T1]	2.4795 -1 2.4805	7.45 dBm	
-30		الم	√				1			1MA
-40	\mathcal{M}	\					<u> </u>	M_		
		V					V			
-60	All'							\	mady	
-70										
-80										
-90 Center 2	2.48 GHz	i		300]	kHz/			Spa	an 3 MHz	

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Pi/4D-QPSK M	TWS BLUETOOTH WIRELESS EARBUDS					Test Mode:			Keep transmitting			
Mode	Keeping Transmitting Test Voltage DC3.						3.7V	.7V				
Temperature		24	deg. C,			I	Humidity		56% RH			
Test Result:			Pass				Detector		I	PK		
0dB Bandwidth		1	377MHz									
Ref Lvl 10 dBm	Ma nd BW	lB	1 [T1 r 20.	00 dB	V	BW BW WT	30 k 100 k 8.5 m	Hz	F Att	20 dB	ı	
10							v ₁	[T1]	-1 2.40200	.75 dBm	A	
-10				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	W	W	ndi V _{EW}	3 L [T1]	20 1.37675 -22	.00 dB 351 MHz		
-20		7/	<u> </u>				$ abla_{\mathrm{T}_{2}}$	2 [31]	2.40133	.94 dBm	1	
1MAX -30									2.40271	242 GHz	1M	
-40	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							\bigvee	. Pla A	<u> </u>		
-50	W *V											
-60												
-70												
-80												
-90 Center 2	.402 GHz			300	kHz/				Spa	n 3 MHz		

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Product:	TW		TOOTH W ARBUDS	/IRELESS		Test Mode:			Keep transmitting		
Mode Keeping Transmitting				Te	est Voltage	;	DC3.7V				
Temperature	24 deg. C,]	Humidity		56% RH				
Test Result:			Pass				Detector		I	PK	
dB Bandwidth		1.	383MHz								
Ref Lvl 10 dBm		ndB	1 [T1 r 20.	.00 dB	V	BW BW WT	30 k 100 k 8.5 m	Hz	F Att	20 dB	
0							▼ ₁	[T1]	-1 2.44100	.16 dBm 902 GHz	A
-10			~~~~		W\\ <u></u>	h	V _{EW}	T1]	1.38276	553 MHz	Ī
-20		T/	,				$oldsymbol{ abla}_{\mathrm{T}_{2}}$	T1]	2.44033 -21 2.44171	567 GHz .98 dBm 844 GHz	Ī
-30											1M
-40	wow	<u></u>						\\\	<u> </u>	^	Ì
-50									W	\\\	Ì
-60											Ī
-70											
-80											Ì
-90 Center 2	.441 GF	Iz		300	kHz/				Spa	n 3 MHz	

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Product:	EARBUDS				Test Mode:	:	Keep transmitting			
Mode Keeping Transmitting					Test Voltage	e	DC3.7V 56% RH			
Temperature	24 deg. C,				Humidity					
Test Result:		Pass			Detector		I	PK		
20dB Bandwidth		1.377MHz								
Ref Lvl 10 dBm	Marke: ndB BW	r 1 [T1 r 20. 1.376753	00 dB	RBV VBV SWT	v 100 k	CHZ	F Att	20 dB		
10					V 1	[T1]	-0 2.48000	.74 dBm 301 GHz	A	
0			W	W.	ndl	8	20 1.37675			
-10		<u> </u>			v _T ,	[T1] 2 [T21]	-21 2.47933 -19	.33 dBm 567 GHz		
-20 1MAX						V	2.48071	242 GHz	1M	
-30						\bigvee	A 70 A	A		
-40										
-50										
-60										
-70										
-80										
-90										

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Product:	TWS BLUETO EAR	Te	est Mode:	Keep transmitting			
Mode Keeping Transmitting			Te	est Voltage	DC3.7V		
Temperature	24 0	leg. C,	I	Humidity	56% RH		
Test Result:	F	ass]	Detector		PK	
0dB Bandwidth	1.35	9MHz					
Ref Lvl 10 dBm	Marker 1 ndB BW 1.	[T1 ndB] 20.00 dB 35871743 MHz	RBW VBW SWT	30 kHz 100 kHz 8.5 ms		t 20 dB	
10			1	V 1 [7	2.4	-1.72 dBm 0214729 GHz	
-10			V~	ndB MBW VIII	1.3	20.00 dB 5871743 MHz -21.26 dBm	
-20	T			$\triangledown_{\mathrm{T2}}$	T1]	0134168 GHz -21.66 dBm	
1MAX	, j			,	2.4	0270040 GHz	
-40	m				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
www.	WW				4	month	
-50							
-60							
-70							
-80							
-90							

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8QPSK Modul	lation								
Product:	TW		OOTH WARBUDS	'IRELESS	7	Test Mode:		Keep tr	ansmitting
Mode Keeping Transmitting			Т	Test Voltage		DC3.7V			
Temperature		24	4 deg. C,			Humidity		569	% RH
Test Result:			Pass			Detector		-	PK
0dB Bandwidth		1.	353MHz						
Ref Lvl 10 dBm		Marker ndB BW 1		00 dB	RBW VBW SWT	30 k 100 k 8.5 m	Hz	F Att	20 dB dBm
10						v ₁	[T1]	- (.93 dBm
					1			2.44113	3527 GHz
0			\sim	~~~~\	~~~	ndF	(TT1)	20 1.35270	0.00 dB 0541 MHz 1.78 dBm
-10		ΤĹ	J			$ abla_{\mathrm{T}_{2}}$	h 2 [2]	2.44034	1770 GHz
-20 1MAX								2.44170	040 GHz
-30							lu	Λ	Δ
-40		J'						W L	May May
-50									
-60									
-70									
-80									
-90 Center 2	2.441 G	Hz		300	kHz/			Spa	an 3 MHz

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Product:		JETOOTH W EARBUDS	TRELESS	7	Test Mode:		Keep transmitting			
Mode Keeping Transmitting			Т	est Voltage	;	DC3.7V				
Temperature	24 deg. C,				Humidity		56% RH			
Test Result:		Pass			Detector]	PK		
0dB Bandwidth		1.359MHz								
Ref Lvl 10 dBm	Marke ndB BW	er 1 [T1 n 20. 1.358717	00 dB	RBW VBW SWT	30 ki 100 ki 8.5 m	Hz	F Att	20 dB		
-10			····	1	v 1 ndi	[T1]	-0 2.48013 20 1.35871 -20 2.47934	.73 dBm 168 GHz .32 dBm		
-20 1MAX -30							2.48070	040 GHz		
-40										
-70										
-80										
-90 Center 2	.48 GHz		300 kH	z/			Spa	n 3 MHz		

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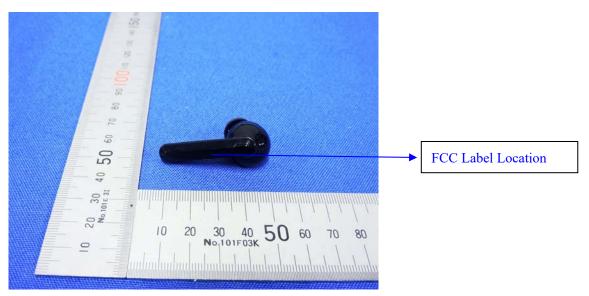


10.0 FCC ID Label

FCC ID: 2APYY-AF0031

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--



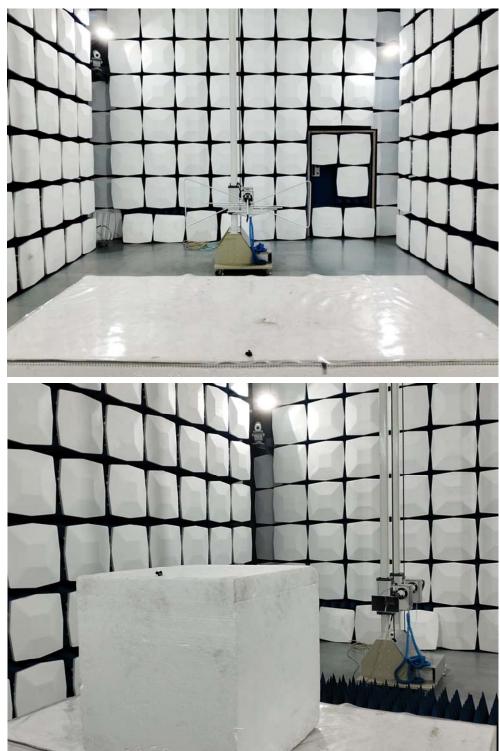
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Radiated emission test view



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11.2 Photographs – EUT

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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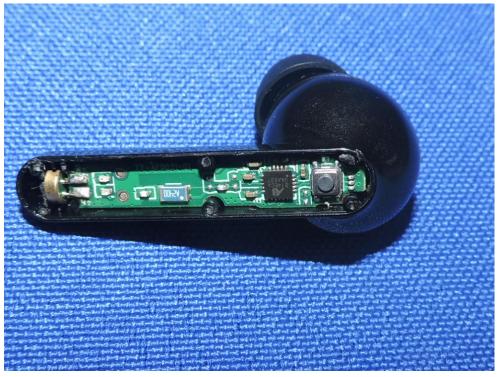
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Inside view





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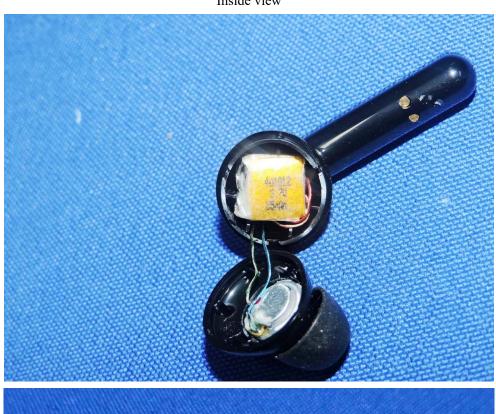
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Inside view





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Inside view



-- End of the report--

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