

Applicant: SimplyTech Electronics, Inc.

Product: LEGACY TWS

Model No.: LEGACY-BLING-BLK, LEGACY-WHITE, LEGACY-PINK

Trademark: Zero Statik

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: February 19, 2025

Results appearing herein relate only to the sample tested

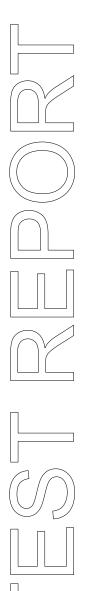
The technical reports is issued errors and omissions exempt and is subject to

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:

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

CAB identifier: CN0033

Date: 2025-02-19



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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: SimplyTech Electronics, Inc.

Address: 1407 Broadway, Suite #1703, New York, NY, 10018.

1.3 Description of EUT

Product: LEGACY TWS

Manufacturer: SimplyTech Electronics, Inc.

Address: 1407 Broadway, Suite #1703, New York, NY, 10018.

Trademark: Zero Statik

Model Number: LEGACY-BLING-BLK

Additional Model Name LEGACY-WHITE, LEGACY-PINK

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

input or Built-in DC3.7V, 400mAh Li-ion battery for charger base.

Serial No.: Legacytws0001

Hardware Version: V 2.0 Software Version: V 2.0

Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, 月/4DQPSK, 8DPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation Chip antenna with gain 2. 7dBi maximum (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2025-01-22 to 2025-02-19

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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

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

Print Name: Andy Xing

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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	2024-07-12	2025-07-11		
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11		
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11		
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17		
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11		
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17		
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17		
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11		
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11		
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17		
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25		
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11		
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11		
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11		
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11		
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11		
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11		
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11		
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11		

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	ı tested accordin	g to the following	specifications:
		A	, 50000

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
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
FCC Part 15.215(c)	20dB bandwidth	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

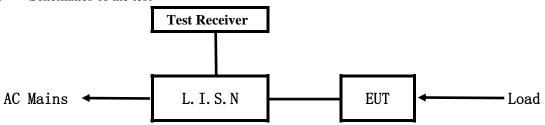
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

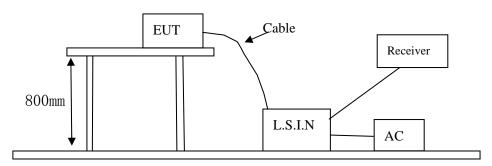


EUT: Equipment Under Test

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
LEGACY TWS	SimplyTech Electronics, lnc.	LEGACY-BLING-BLK, LEGACY-WHITE,	2BKTL-LGCY01
		LEGACY-PINK	

B. Internal Device

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N/A

C. Peripherals

Device	Manufacturer	Model	Rating	
Power Supply	Xiaomi	MDY-12-EF	Input: 100-240V~, 50/60Hz, 1.7A;	
			Output: DC5V, 3A;	
			5-20A; 6.2- 3.25A(67W Max)	

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition
- 5.5 Power line conducted Emission Limit according to Paragraph 15.207

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

Notes:

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

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

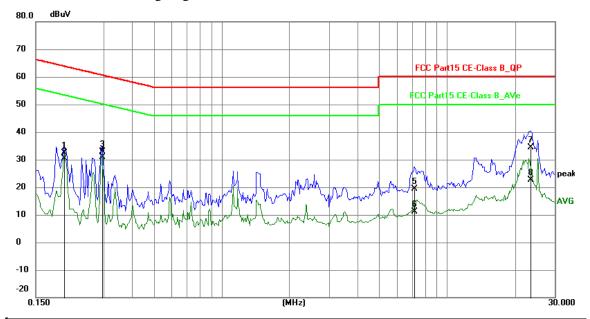
EUT Operating Environment

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

EUT set Condition: Charging and Communication by BT

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	0.2007	21.99	10.32	32.31	63.58	-31.27	QP	П
2	0.2007	20.08	10.32	30.40	53.58	-23.18	AVG	Р
3	0.2943	22.55	10.35	32.90	60.40	-27.50	QP	П
4	0.2943	20.65	10.35	31.00	50.40	-19.40	AVG	Р
5	7.1730	6.60	12.90	19.50	60.00	-40.50	QP	Л
6	7.1730	-1.77	12.90	11.13	50.00	-38.87	AVG	Р
7	23.4983	18.72	15.67	34.39	60.00	-25.61	QP	Р
8	23.4983	7.00	15.67	22.67	50.00	-27.33	AVG	Р

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

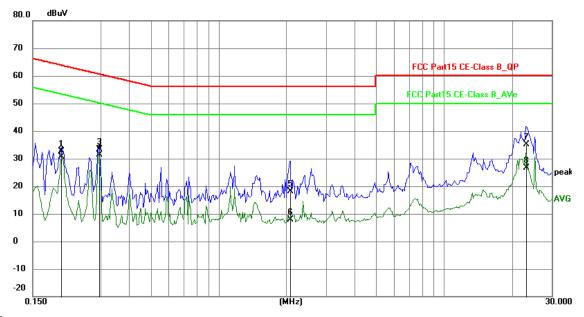
EUT Operating Environment

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

EUT set Condition: Charging and Communication by BT

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	0.2007	22.20	10.32	32.52	63.58	-31.06	QP	Ч
2	0.2007	20.29	10.32	30.61	53.58	-22.97	AVG	Р
3	0.2943	23.00	10.35	33.35	60.40	-27.05	QP	Р
4	0.2943	20.95	10.35	31.30	50.40	-19.10	AVG	Р
5	2.0765	6.83	11.35	18.18	56.00	-37.82	QP	Р
6	2.0765	-3.35	11.35	8.00	46.00	-38.00	AVG	П
7	23.0772	19.47	15.77	35.24	60.00	-24.76	QP	Р
8	23.0772	10.92	15.77	26.69	50.00	-23.31	AVG	Р

Date: 2025-02-19



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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

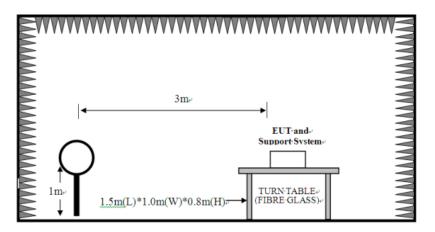
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

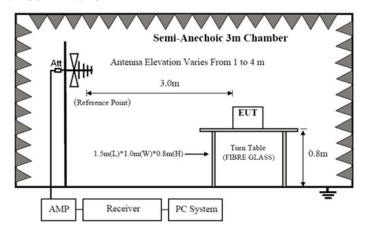
For radiated emissions from 9kHz to 30MHz



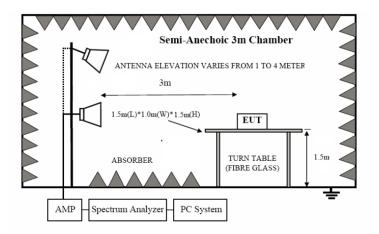
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



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

 Same as section 5.4 of this report.
- 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 Fundamental (3m)	Field Strength of Harmonics (3m)			
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m		

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2400-2483.5 50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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Note:

- 1. RF Field Strength $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. 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.
- 5. 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.
- 6. Battery was fully charged during test

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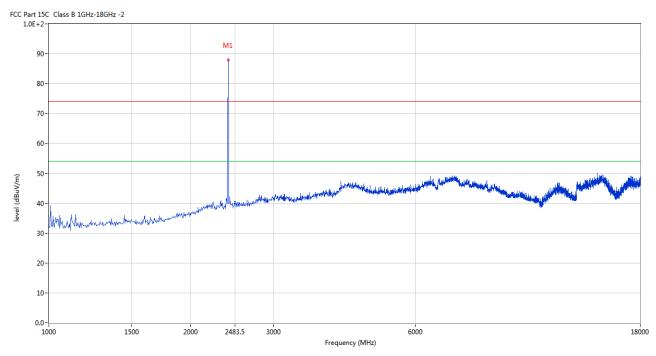


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



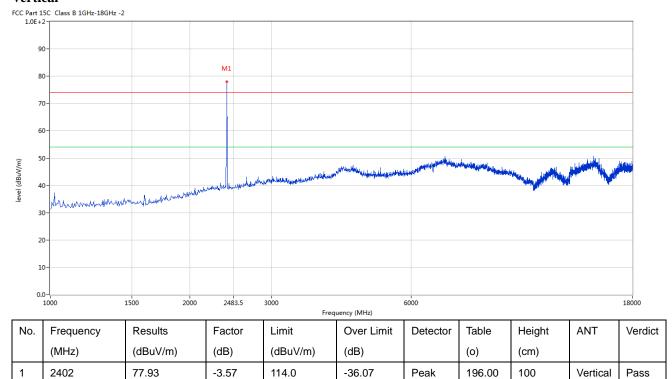
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	87.90	-3.57	114.0	-26.10	Peak	170.00	100	Horizontal	Pass

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Vertical



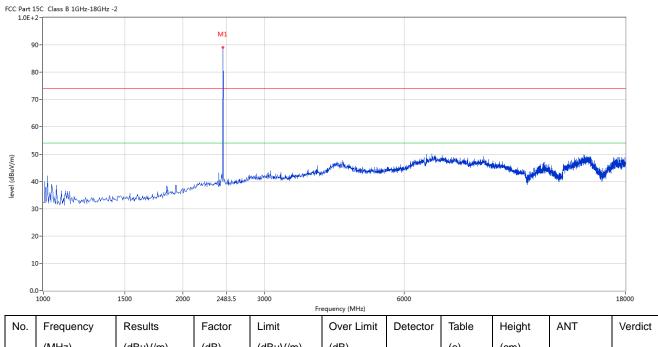
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



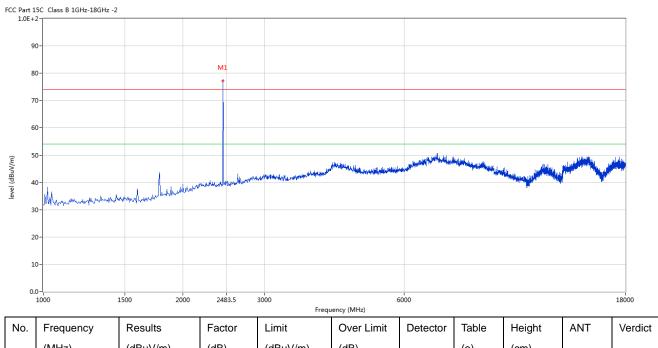
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	2441	89.04	-3.57	114.0	-24.96	Peak	163.00	100	Horizontal	Pass

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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	2441	77.17	-3.57	114.0	-36.83	Peak	21.00	100	Vertical	Pass

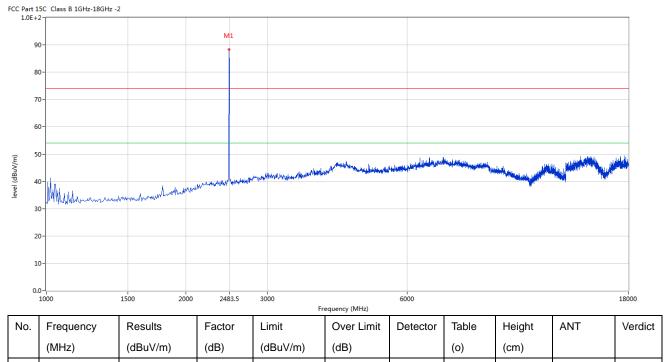
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



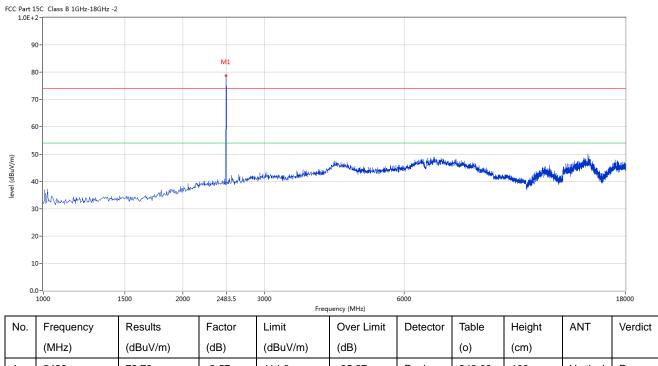
	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	2480	88.36	-3.57	114.0	-25.64	Peak	249.00	100	Horizontal	Pass

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Vertical



343.00 2480 78.73 -3.57 114.0 -35.27 Peak 100 Vertical Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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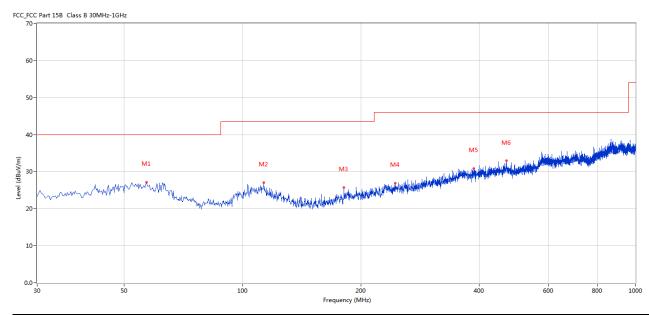


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	56.911	27.11	-4.97	40.0	12.89	Peak	107.00	100	Horizontal	Pass
2	113.157	27.00	-6.38	43.5	16.50	Peak	284.00	100	Horizontal	Pass
3	181.282	25.68	-7.72	43.5	17.82	Peak	157.00	100	Horizontal	Pass
4	244.801	26.85	-5.48	46.0	19.15	Peak	50.00	100	Horizontal	Pass
5	387.356	30.80	-1.81	46.0	15.20	Peak	160.00	100	Horizontal	Pass
6	469.058	32.89	-0.10	46.0	13.11	Peak	356.00	100	Horizontal	Pass

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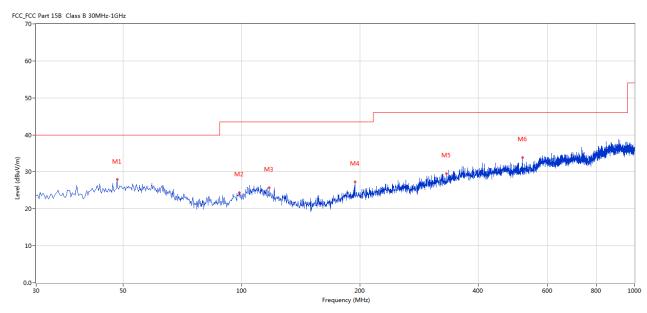


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	48.183	27.88	-5.34	40.0	12.12	Peak	1.00	100	Vertical	Pass
2	98.610	24.35	-7.40	43.5	19.15	Peak	326.00	100	Vertical	Pass
3	117.521	25.73	-7.41	43.5	17.77	Peak	214.00	100	Vertical	Pass
4	194.374	27.31	-7.16	43.5	16.19	Peak	342.00	100	Vertical	Pass
5	332.079	29.50	-3.18	46.0	16.50	Peak	137.00	100	Vertical	Pass
6	519.485	33.84	-0.64	46.0	12.16	Peak	17.00	100	Vertical	Pass

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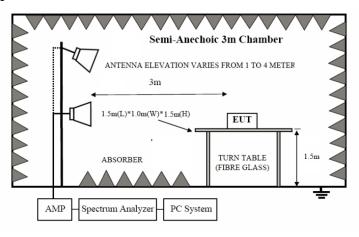


7. Band Edge

7.1 Test Method and test Procedure:

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

7. 2 Radiated Test Setup



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

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

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

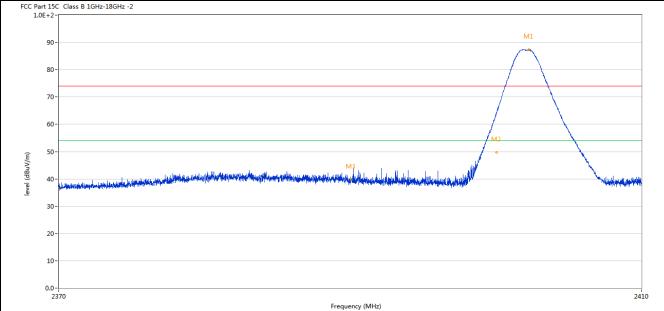
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7.6 Test Result

Product:	LEGACY TWS	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-180 1.0E+2-	5Hz -2		



Ν	۱o.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2402.212	87.44	-3.57	74.0	13.44	Peak	237.00	100	Horizontal	N/A
2		2400.000	64.13	-3.57	74.0	-9.87	Peak	173.22	100	Horizontal	Pass
2	**	2400.000	49.64	-3.57	54.0	-4.36	AV	173.22	100	Horizontal	Pass
3	3	2390.000	39.71	-3.53	74.0	-34.29	Peak	180.50	100	Horizontal	Pass

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1	Product:	LEGACY TWS				Detector		Vertical		
	Mode]	Keeping Tr	ransmitting		Test Voltage		DC3.7V		
Te	mperature	24 deg. C,				Humidity		56% RH		
	est Result:		Pa	SS						
CC Part 1.0E	15C Class B 1GHz-18GI	Hz -2								
	90-									
								M1		
	80-							/ Ann		
	70-							$/ \setminus$		
	60-						,	/		
					M4-		/		\ 	
						1			\	
level (dBuV/m	40 - 144 - 1	pistininga addisən kydenadiyi	ساهلان والمراجع والمعالمة	are the same	M3		M2		The same of the sa	And the
level (dBuV/π	40 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	iştiylir, taması dikləriniyi içinde esiliki	uddwig og blygs by nei stadding.	ang di apartika direkta asa ada			M2			
level (dBuV/m	40- 101-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	est-dispenses della destributa della l	ndhiya qiliya kendirildi iyo	aria de destreta de de acesa de	Frequency (MHz)		M2			
level (dBuV/m	40 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor	Limit		Detector	M2 •	Height	ANT	2410
level (dBuV/m	40-144 MAN PARK 30-20-10-0.0 - 2370				Frequency (MHz)	Detector	Table (o)	Height (cm)		2410
level (dBuV/m	30- 20- 10- 2370	Results	Factor	Limit	Frequency (MHz) Over Limit	Detector Peak				2410
No.	30- 20- 10- 2370 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)		(o)	(cm)	ANT	2410 Verdic
No.	40- 30- 20- 10- 0.0- 2370 Frequency (MHz) 2401.782	Results (dBuV/m) 77.18	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 3.18	Peak	(o) 204.00	(cm) 100	ANT Vertical	verdic
No.	40- 20- 10- 2370 Frequency (MHz) 2401.782 2400.000	Results (dBuV/m) 77.18 54.27	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 3.18 -19.73	Peak Peak	(o) 204.00 204.00	(cm) 100 100	ANT Vertical Vertical	Verdic N/A Pass

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]	Product:		LEGA	LEGACY TWS		P	Polarity		Horizontal	
	Mode		Keeping T	Transmitting		Test	st Voltage		DC3.7V	
Te	mperature		24 d	leg. C,		Н	Humidity 569		56% RF	ł
Тє	est Result:		P	ass						
FCC Part : 1.0E+	15C Class B 1GHz-18GHz	-2								
g	90-		M1							
8	80-									
7	70-									
			,	*						
6	50-		/	M _M 2						
_	50-			M ₂						
_		man an ann an ann an ann an ann ann ann		M2	A CONTRACTOR OF THE PARTY OF TH	daydyrkit kyryythiyytysiandayy	Marie and Marie and Added to the second	erlys skillelydd oes glegeryk di	hi an had do publicado publicado por de	
level (dBuV/m)	50-	an an air de la company de	<u>/</u>	M ₂	No. of Charles	official property of the prope	ورواله والموافقة والموافقة الموافقة الموافقة الموافقة الموافقة الموافقة الموافقة الموافقة الموافقة الموافقة الم	er leg sath all hely selve ago a description ago, also	hina kada kada kada kada kada kada kada ka	use Made Special Speci
level (dBuV/m)	10 - Was 14 Was 19 19 19 19 19 19 19 19 19 19 19 19 19	والمستعمل المستعمل المستعمد ال	<u>/</u>	M2	And the second second	official physical and help	place or live the light per liberty to the live of	perfective de la ferio dela ferio dela ferio de la ferio de la ferio dela ferio dela ferio de la ferio de la ferio dela	સંસ્તૃતિ હોન્સી સ્તૃતી સ્તૃતી સ્તૃતી સ્તૃતી સ્તૃતિ હોન્સી હોન્સી હોન્સી હોન્સી હોન્સી હોન્સી હોન્સી હોન્સી હોન 	istor Pila Malanda Alfrid
level (dBuV/m)	50- 10- 10-10-10-10-10-10-10-10-10-10-10-10-10-1	an ann air an an air		M2	And the state of t	ologija kara politico pisa odazi	iydd ardig yfd yn y ddifell benyd	arique de de de constitución de la	in art had in sull years a second in district the	in the West of the second of
level (dBuV/m)	50-	an mangalang da		M2	The second second	ologija de koje opilikojni de skoli	interview in the problem in the second	original de la	વંદ્ર ૧ ૧૪ કર્મ કે મુખ્ય પ્રદેશ કરે છે. તે કે જ માટે કે જે	
(m/\mu (dBu\nu m)	50- 10- 10-10-10-10-10-10-10-10-10-10-10-10-10-1	anning the bank of the best of		M2		olgo of he do by our distinguish as design	interview in the part of the later in	中央政治 (1)	વંદ્ર ૧ ૧૪ અને કેન્ _{ર સીં} ક્ષ્યાપા ના અને તે	2500
(m/\mu (dBu\nu m)	50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor		5	Detector	Table	Height	ANT	
(m/\ngn) 44	10 - Was , William May	The second secon	Factor (dB)	2483.	5 Frequency (MHz)					2500
(m/\mu (dBu\/m) 4	50- 10- 20- 10- 2470 Frequency	Results		2483.	5 Frequency (MHz)		Table	Height		2500

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Product:			LEGAC	Y TWS		Detec	tor		Vertical	
	Mode	I	Keeping Tr	ansmitting		Test Voltage		DC3.7V		
Te	emperature		24 deg. C, Pass			Humidity 		56% RH		
Te	est Result:									
	rt 15C Class B 1GHz-18GH E+2-	-lz -2			<u>'</u>					
	90-			M1						
	80-		· ·	₩1						
	70-									
	60									
	60-									
(w//	50-		+	M ₂ M ₂						
el (dBuV/m)	50-	let a legio e chip e legilet de con		M2	and the state of t		the other bands	der eine de	an a la gale de la constante d	lak kepladank
level (dBuV/m)	40-40-40-40-40-40-40-40-40-40-40-40-40-4	le his displacement and his department		M2	www.wheelphologicalesti	a delegated the second set	ika ilkandan upla	Norway de la marchada de la companya	on the gale of channel white	last last de la contre
level (dBuV/m)	50-	k i daji e sahkush mbi di da		M2	www.wheelpharetheaperstableships	and and the same pro-	ike. Ukanadaka upika	de participation de la companya de l	open de de la company de son de s	had bergelande
level (dBuV/m)	40-40-40-40-40-40-40-40-40-40-40-40-40-4	le had style a side to a be and a bed a server		M2	www.userphe.iish.userphe.iish.userphe.iish	na dedicated de Nasionamen pres	Hay ill and him suphi	Norwaldska videralistel de est	obersky skylvely sky	had had de de de de
level (dBuV/m)	50- 40- 30-	le ki dagi e salak sak sah ki dagar		M2	un annual de la completa della completa de la completa della completa della completa de la completa della compl	a de la completa del la completa de la completa del la completa de la completa del la completa de la completa del la comp	ika jil a rahin sajbi	hu nikhanika dipakin	opanio di dinandi ililari	hakkarakarak
	50- 40- 30- 20-			M2	un anne stade of the later it and sensite	n dedicated the second pro-	Heavellandheasayhi	Now, and the existing all the latest	orash qedir di sibu ad siblis	l. A Lipplin Londo
	50- 40- 30- 20-	le het die geleine sellen en kenne ken		M2 2483.	,	a ded and the least of the same of the	ilia valennyihi	hu nightha air ain air	opanio di distributi di di	250
(m//\ngl) level (dBu//m)	50- 40- 30- 20-	Results	Factor	2483.	.5	Detector	Table	Height	ANT	250
	50- 40- 30- 20- 10- 2470		Factor (dB)		.5 Frequency (MHz)					250
	30- 20- 10- 2470	Results		Limit	.5 Frequency (MHz) Over Limit		Table	Height		

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

2. 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 2.7dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

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Span 3 MHz

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Test Result

Product:	I	LEGACY	TWS		Test N	Iode:	Keep transmitting		
Mode		ping Tran			Test V			DC3.7	
Temperature		24 deg.			Hum			56% R	Н
Test Result:		Pass			Detector		PK		
20dB Bandwidth		894kH	[z			-			
Ref 10 dE	im.	*Att 20	0 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		r 1 [T1 -1 2.402000	.43 dBm	
10							T1] 20 4.000000 1 [T1 nd		А
1 PK MAXH			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	M			-21 2.401538	1	
20			/0	h	T2		ı	.02 dBm	
30						MA.			
40									
- F700-						لر	M		3DB
							~~~		
60									
-70									

Date: 18.FEB.2025 09:35:03

Center 2.402 GHz

-90

300 kHz/

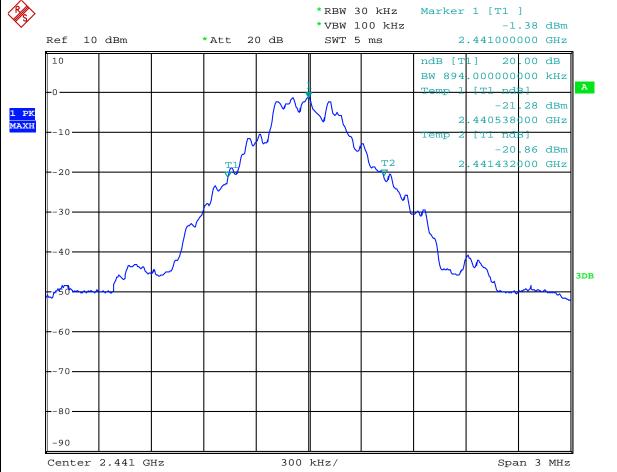
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GFSK			
Product:	LEGACY TWS	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz		
^			



Date: 18.FEB.2025 09:44:32

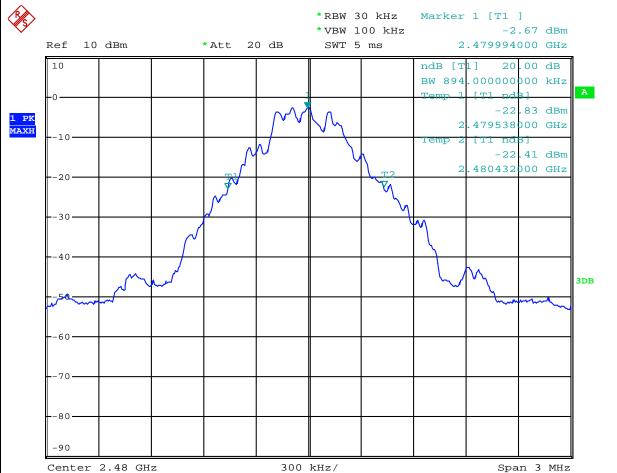
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GFSK			
Product:	LEGACY TWS	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	894kHz		



Date: 18.FEB.2025 09:47:58

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Span 3 MHz

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Mode Cemperature Test Result:	Keeping Transmi 24 deg. C,	itting	Test Voltage	D.C.2. 7	
Test Result:	24 deg. C,		_	DC3.7	V
			Humidity	56% RH	
	Pass		Detector	PK	
lB Bandwidth	1.278MHz				
Ref 10 dF		*RBW 30 *VBW 10	0 kHz ms	er 1 [T1 ]	A
40 60					3DB

Date: 18.FEB.2025 09:54:32

Center 2.402 GHz

-90

300 kHz/

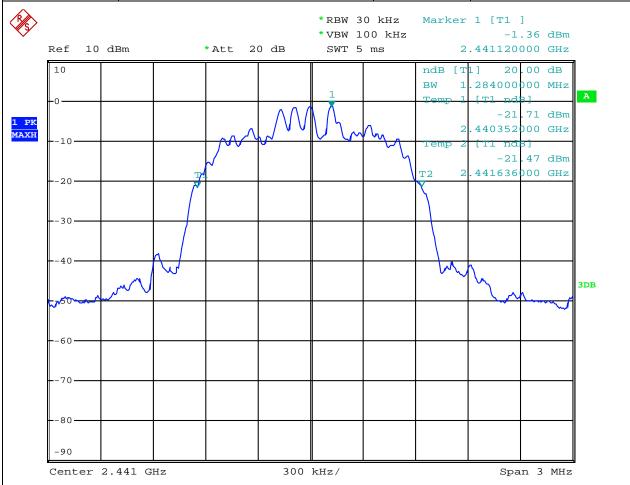
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Л/4DQPSK			
Product:	LEGACY TWS	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.284MHz		



Date: 18.FEB.2025 09:52:55

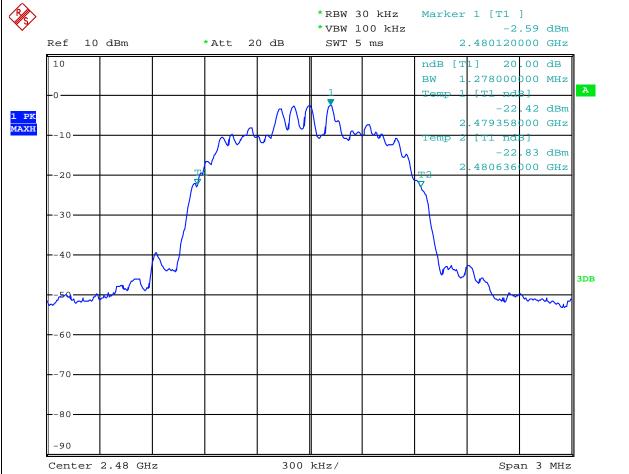
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Л/4DQPSK			
Product:	LEGACY TWS	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.278MHz		



Date: 18.FEB.2025 09:50:32

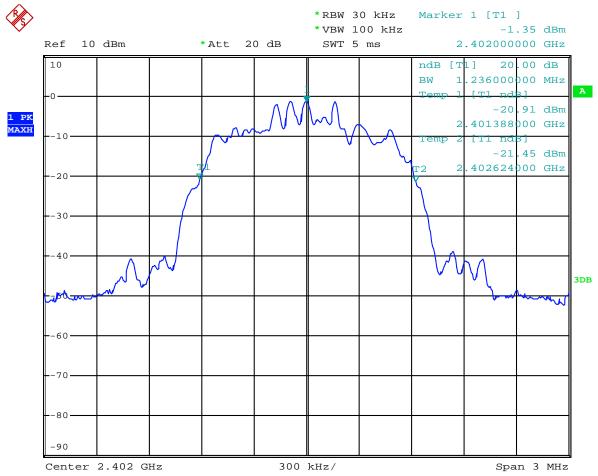
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8DPSK							
Product:	LEGACY TWS	Test Mode:	Keep transmitting				
Mode	Keeping Transmitting	Test Voltage	DC3.7V				
Temperature	24 deg. C,	Humidity	56% RH				
Test Result:	Pass	Detector	PK				
20dB Bandwidth	1.236MHz						
6	* 7.5	22 20 177 24 1	1 [m] ]				



Date: 18.FEB.2025 09:55:34

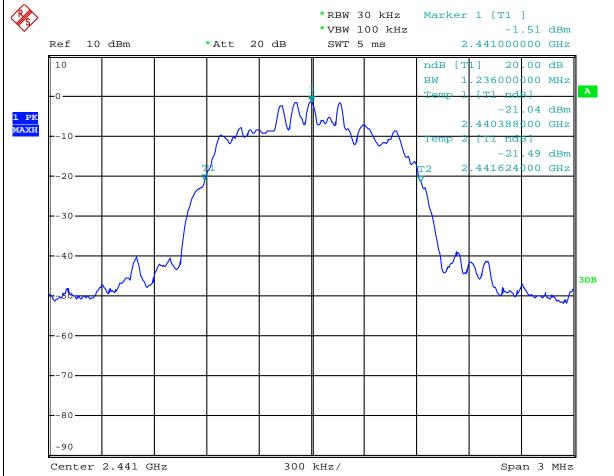
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8DPSK			
Product:	LEGACY TWS	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.236MHz		



Date: 18.FEB.2025 09:57:49

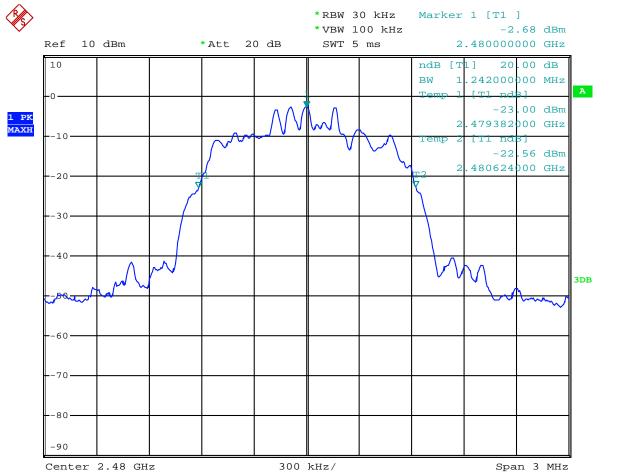
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LEGACY TWS	Test Mode:	Keep transmitting
Keeping Transmitting	Test Voltage	DC3.7V
24 deg. C,	Humidity	56% RH
Pass	Detector	PK
1.242MHz		
	Keeping Transmitting 24 deg. C, Pass	Keeping Transmitting Test Voltage  24 deg. C, Humidity  Pass Detector



Date: 18.FEB.2025 10:05:52

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## 10.0 FCC ID Label

### FCC ID: 2BKTL-LGCY01

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.

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### 11.0 Photo of testing

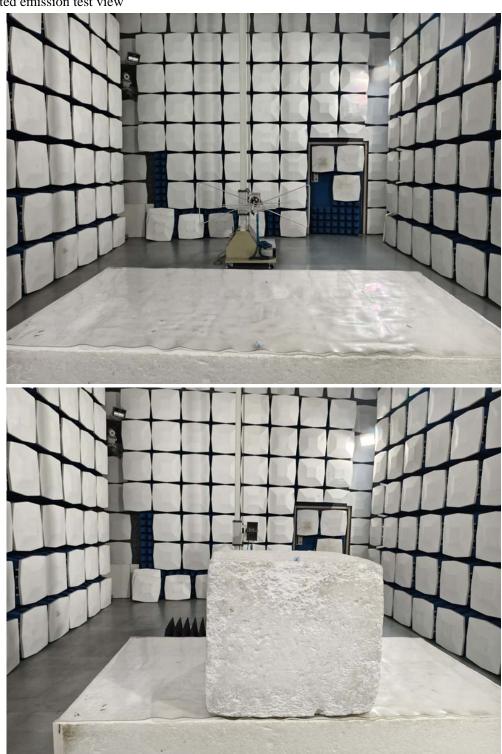
#### 11.1 Conducted test View



Date: 2025-02-19



## Radiated emission test view



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

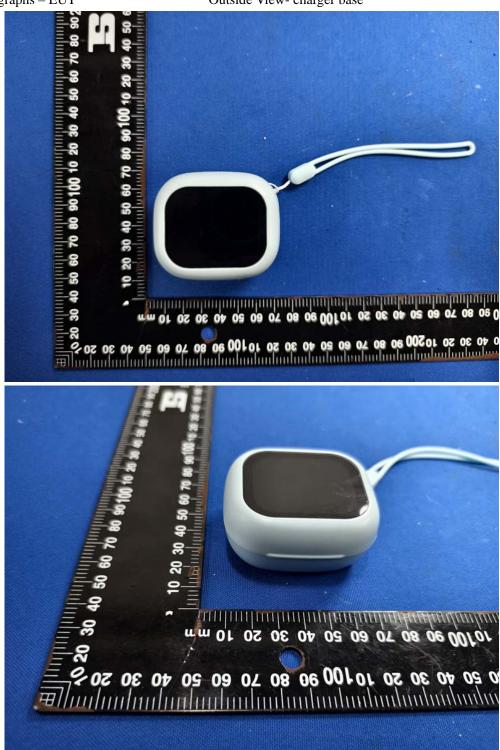
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# 11.2 Photographs – EUT

Outside View- charger base



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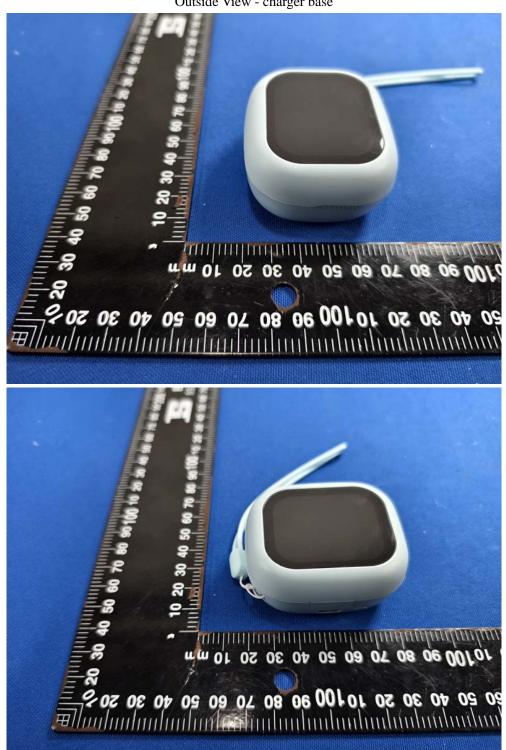
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Outside View - charger base

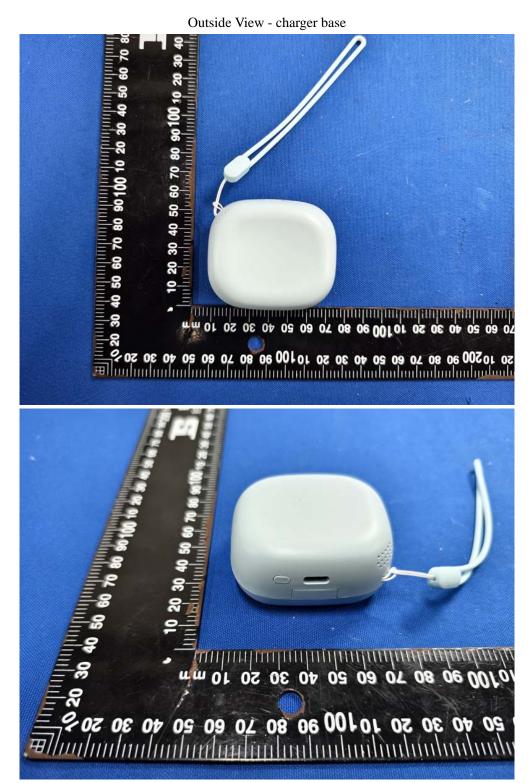


The report refers only to the sample tested and does not apply to the bulk.

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Date: 2025-02-19



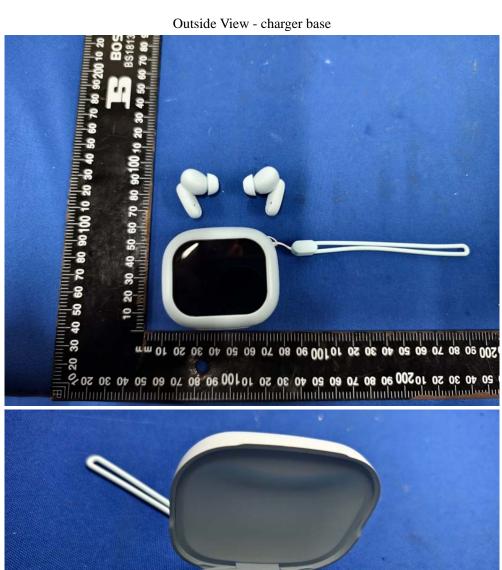


The report refers only to the sample tested and does not apply to the bulk.

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Inside View - charger base



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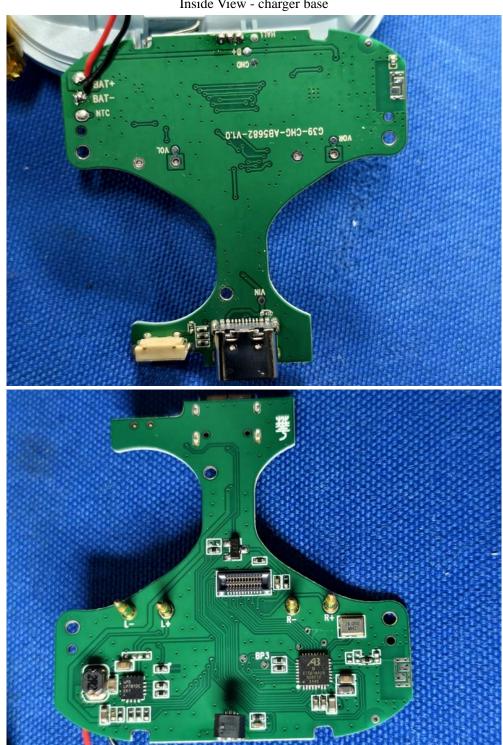
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Inside View - charger base



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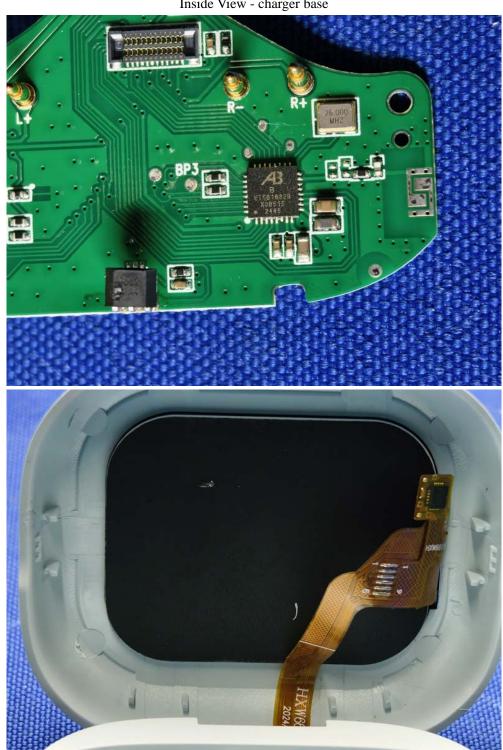
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Inside View - charger base



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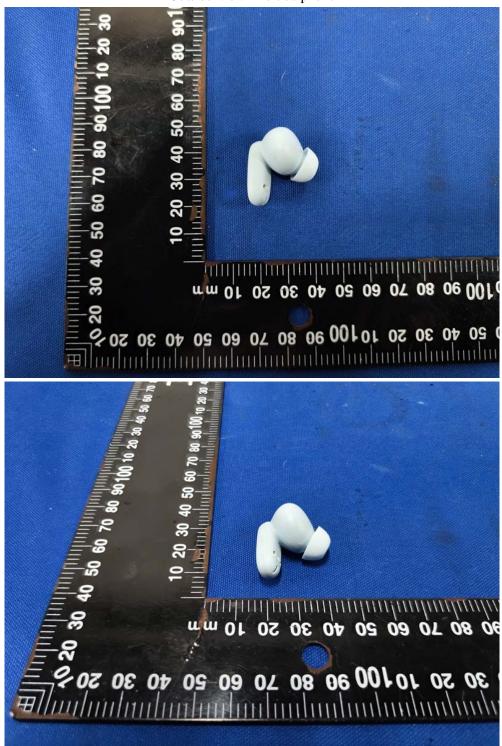
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Outside View - Left earphone



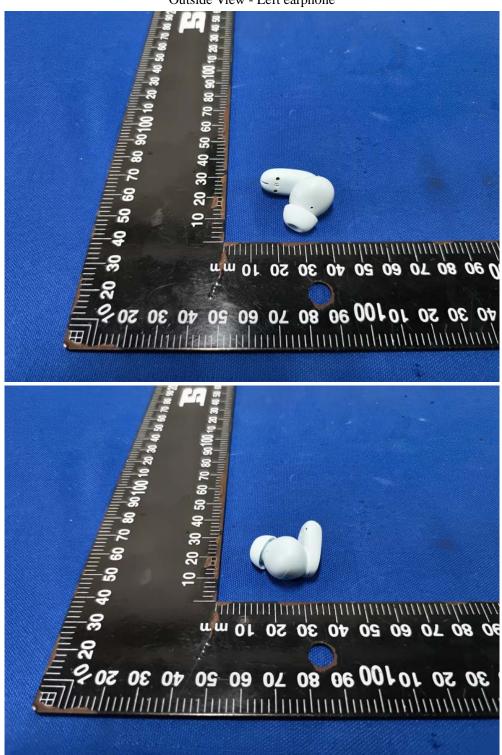
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Outside View - Left earphone



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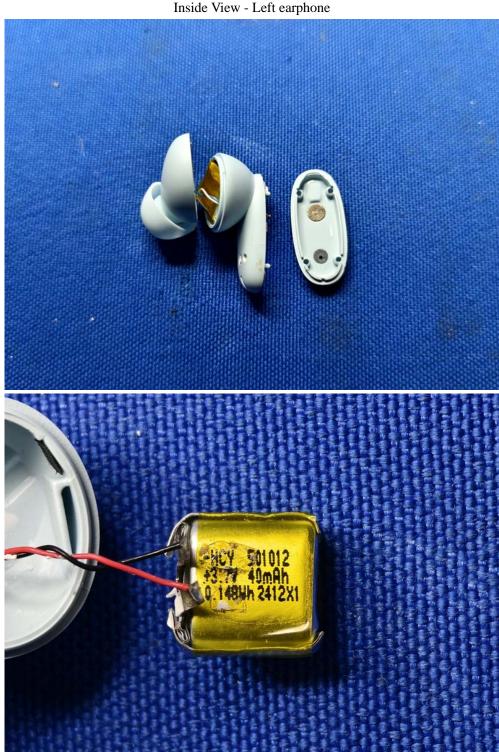


Outside View - Left earphone



Date: 2025-02-19





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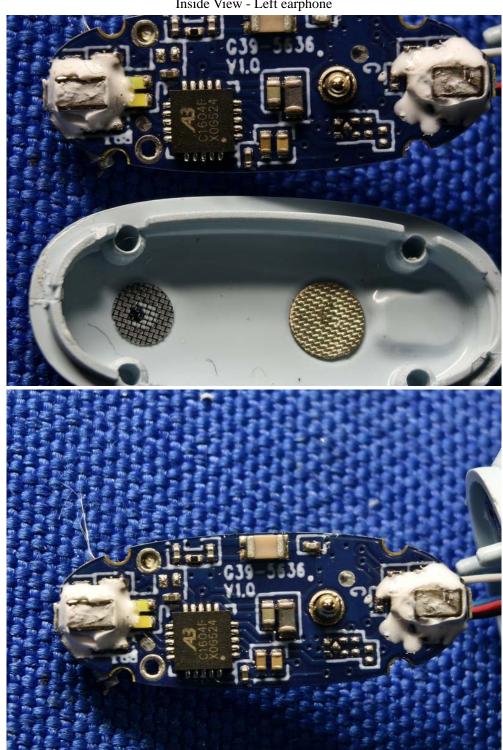
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Inside View - Left earphone



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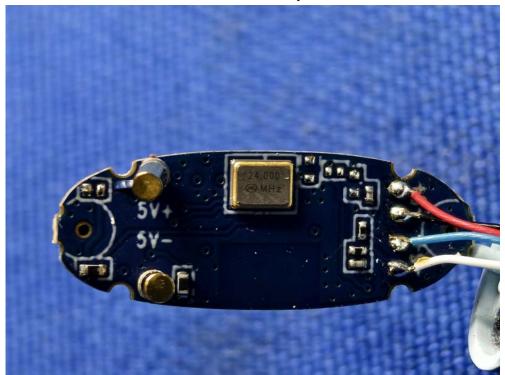
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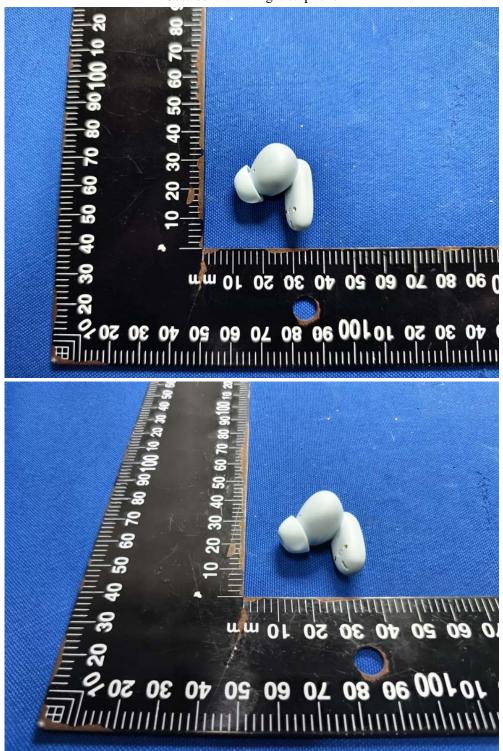
Inside View - Left earphone



Date: 2025-02-19



Outside View - Right earphone



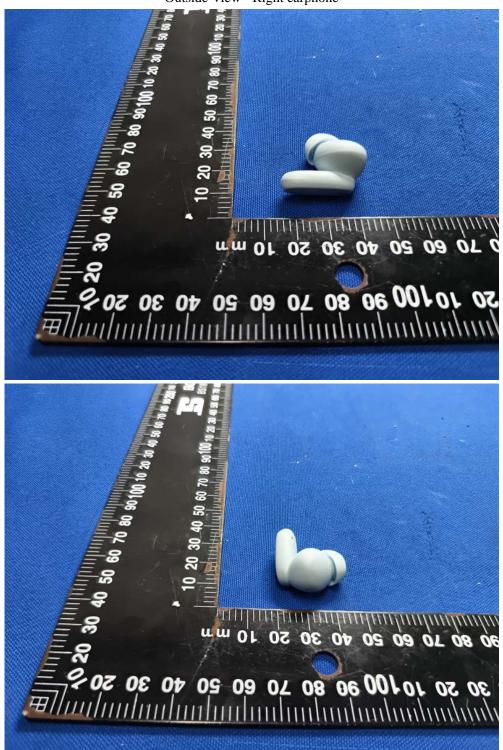
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Outside View - Right earphone



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Outside View - Right earphone



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Inside View - Right earphone





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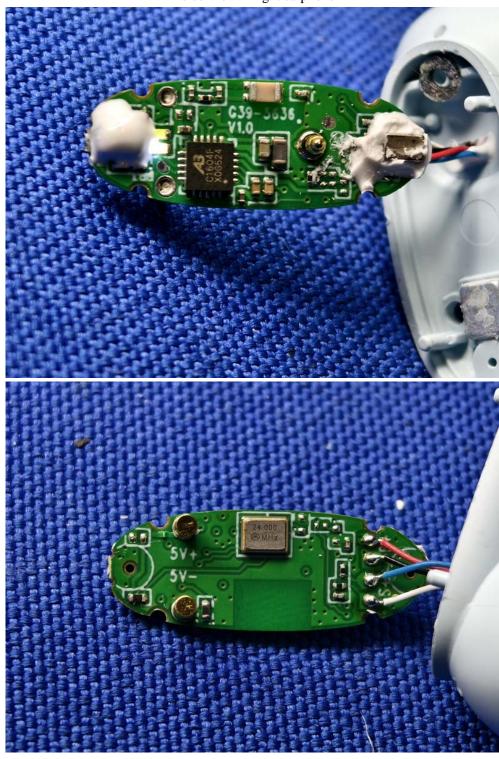
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Inside View - Right earphone



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