



Report No.: TW2505004E

Applicant: 5C Co., Ltd.

Product: Wireless earphone

Model No.: AL-WE001

Trademark:



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*

Terry Tang

Manager

Dated: May 22, 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



### **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**

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Test Report Conclusion  
Content

<b>1.0</b>	<b>General Details</b>	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	5
1.6	Test Uncertainty	5
1.7	Test By	5
<b>2.0</b>	<b>List of Measurement Equipment</b>	6
<b>3.0</b>	<b>Technical Details</b>	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
<b>4.0</b>	<b>EUT Modification</b>	7
<b>5.0</b>	<b>Power Line Conducted Emission Test</b>	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit	9
5.6	Test Result	9
<b>6.0</b>	<b>Radiated Emission test</b>	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	13
6.5	Test Result	15
<b>7.0</b>	<b>Band Edge</b>	23
7.1	Test Method and Test Procedure	23
7.2	Radiated Test Setup	23
7.3	Configuration of the EUT	23
7.4	EUT Operating Condition	23
7.5	Band Edge Limit	23
7.6	Band Edge Test Result	24
<b>8.0</b>	<b>Antenna Requirement</b>	28
<b>9.0</b>	<b>20dB bandwidth measurement</b>	29
<b>10.0</b>	<b>FCC ID Label</b>	36
<b>11.0</b>	<b>Photo of Test Setup and EUT View</b>	37

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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 States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: 5C Co., Ltd.  
Address: 861-2402 1801-9-3 Komori, Nishihara Village, Aso District, Kumamoto Prefecture

### 1.3 Description of EUT

Product: Wireless earphone  
Manufacturer: 5C Co., Ltd.  
Address: 861-2402 1801-9-3 Komori, Nishihara Village, Aso District, Kumamoto Prefecture  
Trademark:   
Model Number: AL-WE001  
Additional Model Name: N/A  
Rating: Input: DC3.7V  
Battery: DC3.7V, 35mAh Li-ion battery for earphones and Built-in DC3.7V, 320mAh Li-ion battery for charger base.  
Serial No.: U1396  
Hardware Version: V1.0  
Software Version: V1.3.7  
Operation Frequency: 2402-2480MHz  
Modulation Type: GFSK,  $\pi/4$ DQPSK  
Number of Channels: 79  
Channel Separation: 1MHz  
Antenna Designation: Chip antenna with gain 2.78dBi maximum (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2025-05-12 to 2025-05-22

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

A handwritten signature in black ink that reads "Andy Xing". The signature is written in a cursive, slightly slanted style.

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 tested according to the following specifications:			
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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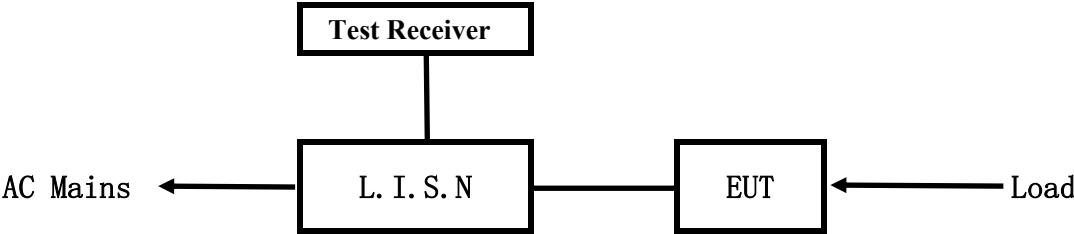
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



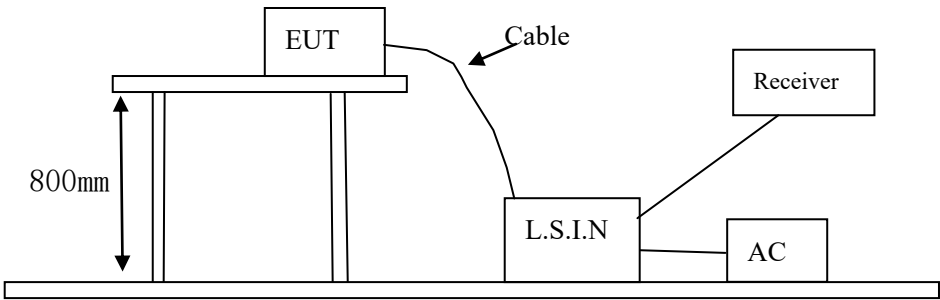
EUT: Equipment Under Test

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.

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless earphone	5C Co., Ltd.	AL-WE001	2BQJJ-AL-WE001

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A; Output: DC5V, 3A; DC9V, 3A; DC12V, 3A; DC15V, 3A; DC20V, 2.25A;

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

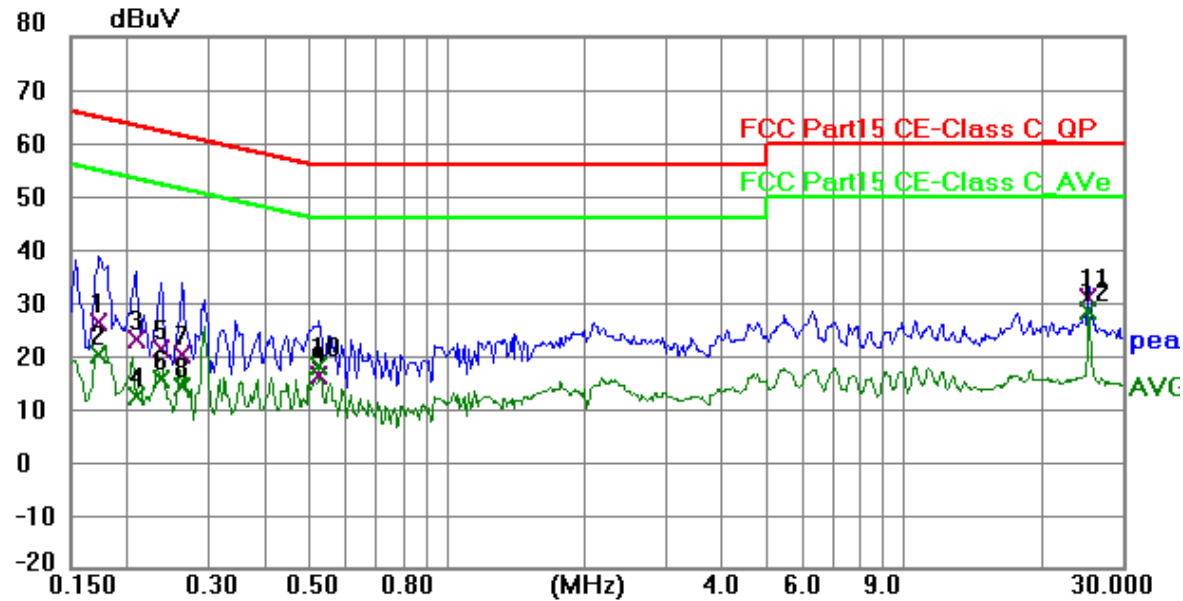
- Notes:
1. \*Decreasing linearly with logarithm of frequency.
  2. The tighter limit shall apply at the transition frequencies

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	0.1734	15.80	10.33	26.13	64.80	-38.67	QP	P
2	0.1734	9.74	10.33	20.07	54.80	-34.73	AVG	P
3	0.2085	12.57	10.32	22.89	63.26	-40.37	QP	P
4	0.2085	1.95	10.32	12.27	53.26	-40.99	AVG	P
5	0.2358	11.00	10.33	21.33	62.24	-40.91	QP	P
6	0.2358	5.17	10.33	15.50	52.24	-36.74	AVG	P
7	0.2631	9.99	10.34	20.33	61.33	-41.00	QP	P
8	0.2631	3.62	10.34	13.96	51.33	-37.37	AVG	P
9	0.5243	5.72	10.41	16.13	56.00	-39.87	QP	P
10	0.5243	7.45	10.41	17.86	46.00	-28.14	AVG	P
11	25.2300	15.60	15.29	30.89	60.00	-29.11	QP	P
12	25.2300	13.04	15.29	28.33	50.00	-21.67	AVG	P

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

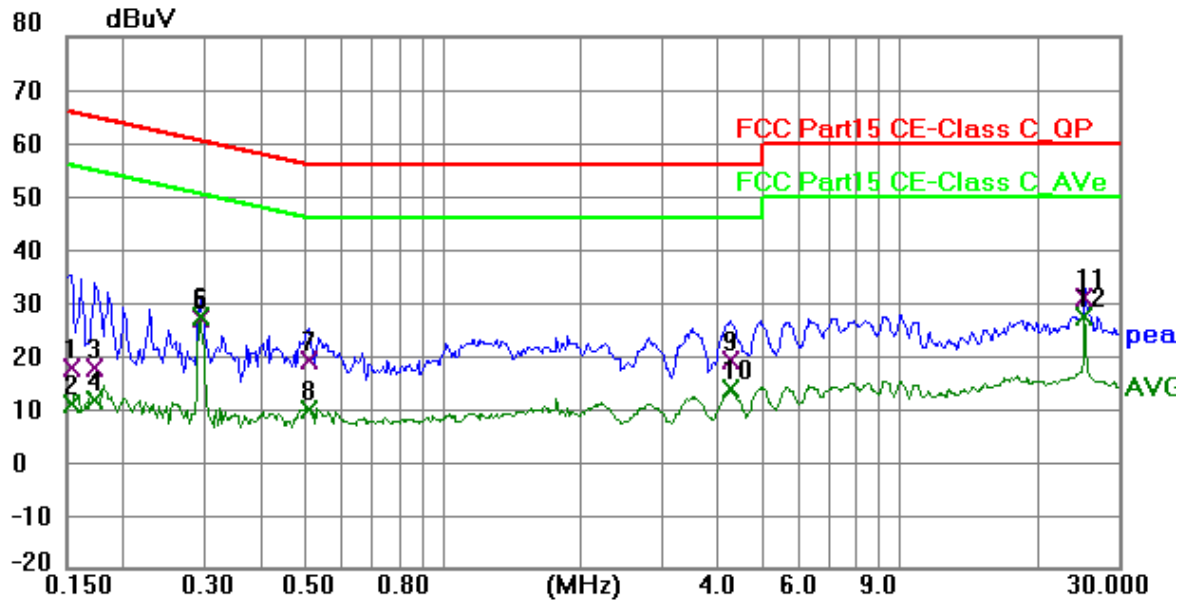
**EUT Operating Environment**

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	0.1539	7.21	10.34	17.55	65.79	-48.24	QP	P
2	0.1539	0.61	10.34	10.95	55.79	-44.84	AVG	P
3	0.1734	7.51	10.33	17.84	64.80	-46.96	QP	P
4	0.1734	1.16	10.33	11.49	54.80	-43.31	AVG	P
5	0.2943	16.71	10.35	27.06	60.40	-33.34	QP	P
6	0.2943	17.10	10.35	27.45	50.40	-22.95	AVG	P
7	0.5127	8.58	10.40	18.98	56.00	-37.02	QP	P
8	0.5127	-0.73	10.40	9.67	46.00	-36.33	AVG	P
9	4.2441	7.17	12.10	19.27	56.00	-36.73	QP	P
10	4.2441	1.61	12.10	13.71	46.00	-32.29	AVG	P
11	25.2300	15.52	15.29	30.81	60.00	-29.19	QP	P
12	25.2300	12.04	15.29	27.33	50.00	-22.67	AVG	P

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

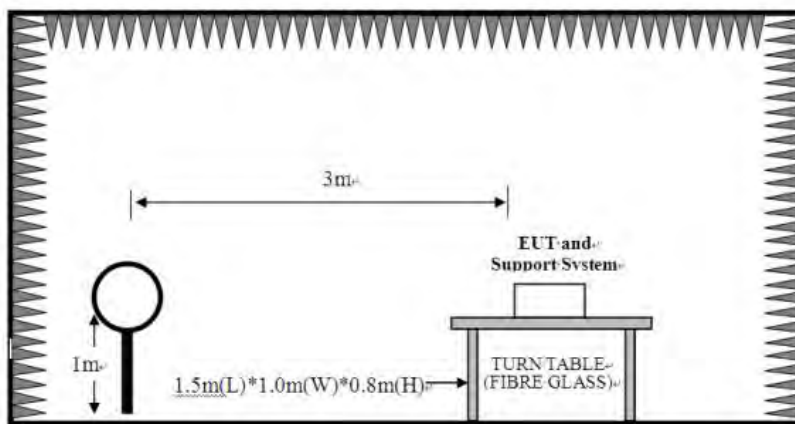
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

(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



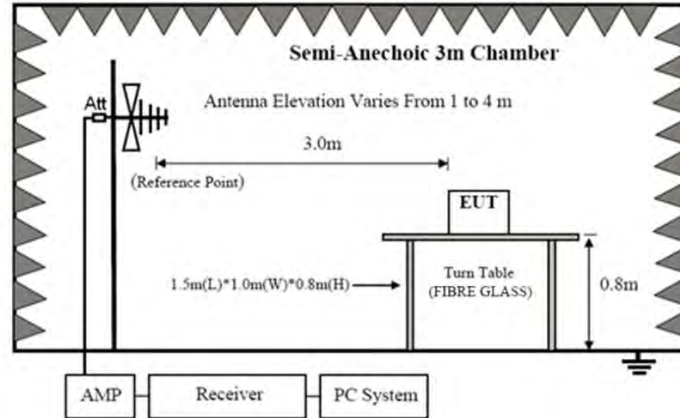
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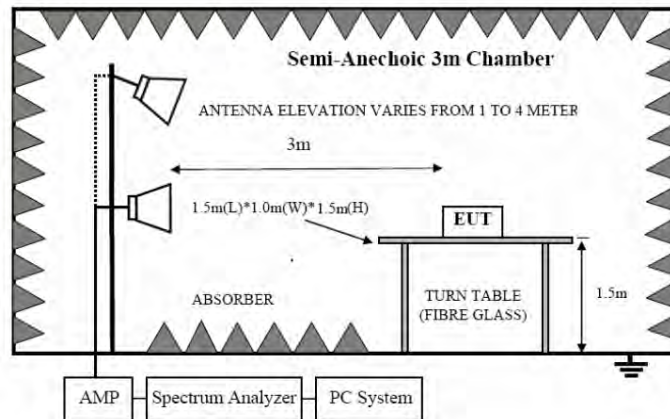
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For radiated emissions from 30MHz to 1GHz



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:  
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 § 15.209, whichever is the lesser attenuation.

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

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Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	mV/m	dBuV/m		uV/m	dBuV/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

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

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

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
1.705-30	3	69.5
30-80	3	40.
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. 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 two modulation modes of GFSK, Pi/4D-QPSK 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

## 6.5 Test result

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

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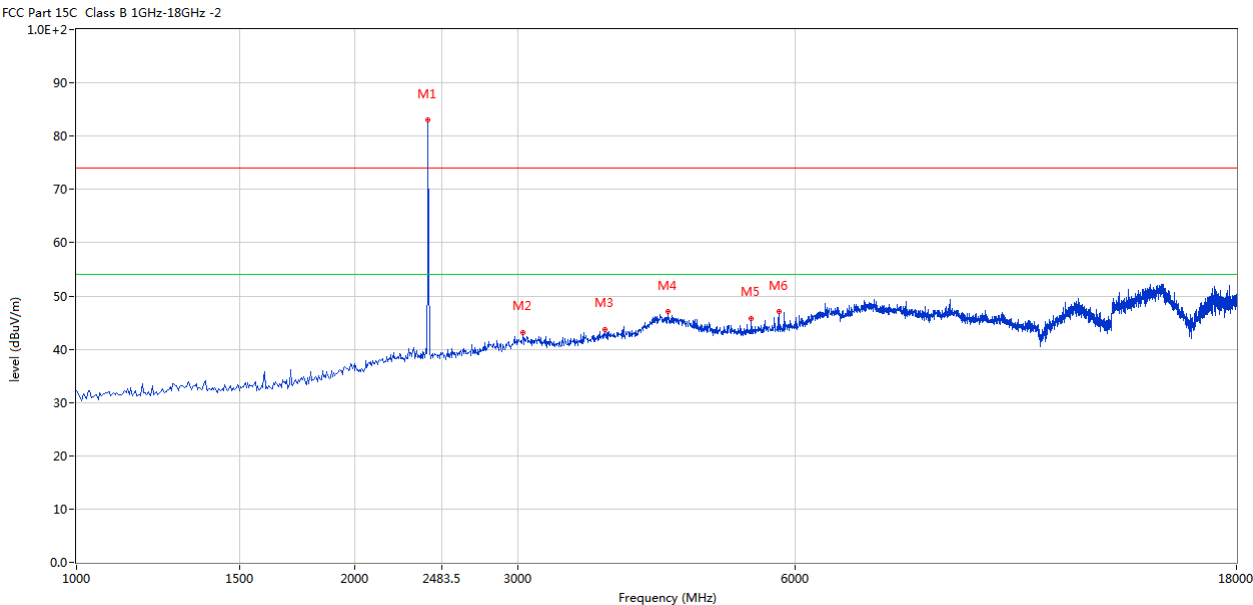
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**A Fundamental & Harmonics Radiated Emission Data**

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

**Horizontal**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	83.02	-3.57	114.0	-30.98	Peak	318.00	100	Horizontal	Pass
2	3043.739	43.22	-2.45	74.0	-30.78	Peak	229.00	100	Horizontal	Pass
3	3727.818	43.78	-0.08	74.0	-30.22	Peak	119.00	100	Horizontal	Pass
4	4360.910	47.07	1.94	74.0	-26.93	Peak	249.00	100	Horizontal	Pass
5	5376.406	45.77	3.65	74.0	-28.23	Peak	275.00	100	Horizontal	Pass
6	5754.561	46.99	3.83	74.0	-27.01	Peak	0.00	100	Horizontal	Pass

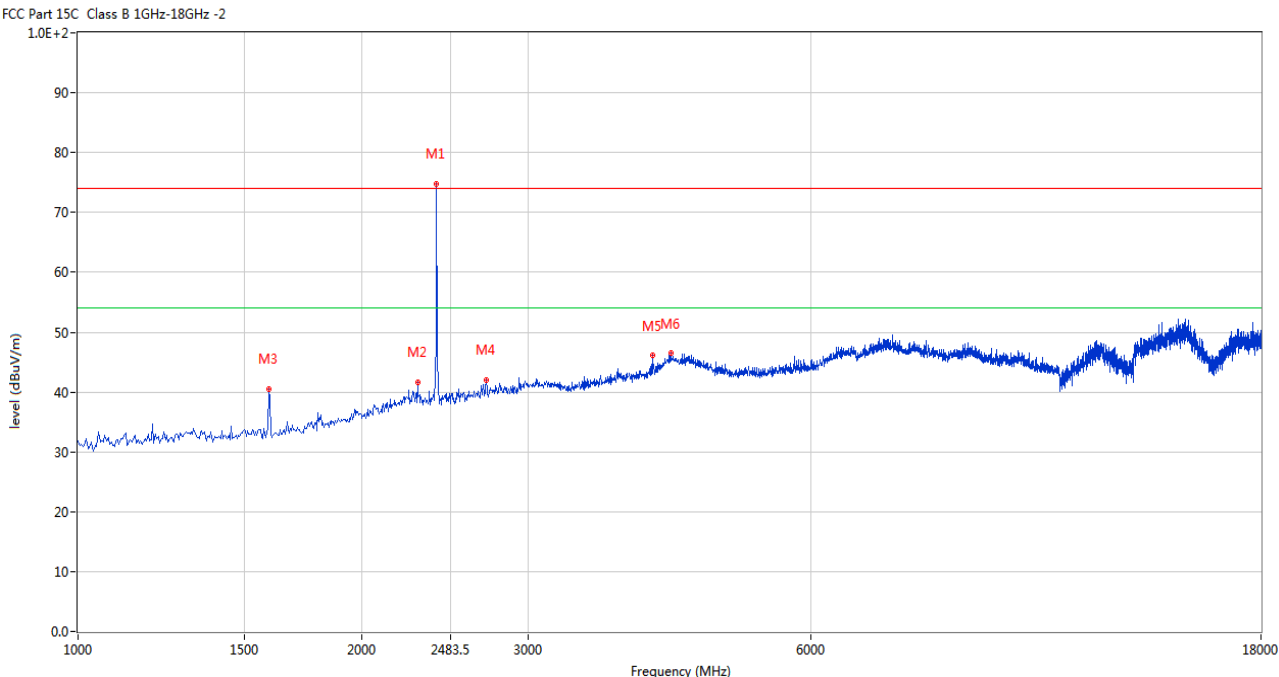
**Vertical**

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	74.81	-3.57	114.0	-39.19	Peak	64.00	100	Vertical	Pass
2	2291.677	41.54	-3.20	74.0	-32.46	Peak	216.00	100	Vertical	Pass
3	1594.851	40.57	-7.98	74.0	-33.43	Peak	269.00	100	Vertical	Pass
4	2712.322	42.00	-2.93	74.0	-32.00	Peak	0.00	100	Vertical	Pass
5	4067.733	46.10	1.34	74.0	-27.90	Peak	258.00	100	Vertical	Pass
6	4254.686	46.44	1.73	74.0	-27.56	Peak	111.00	100	Vertical	Pass

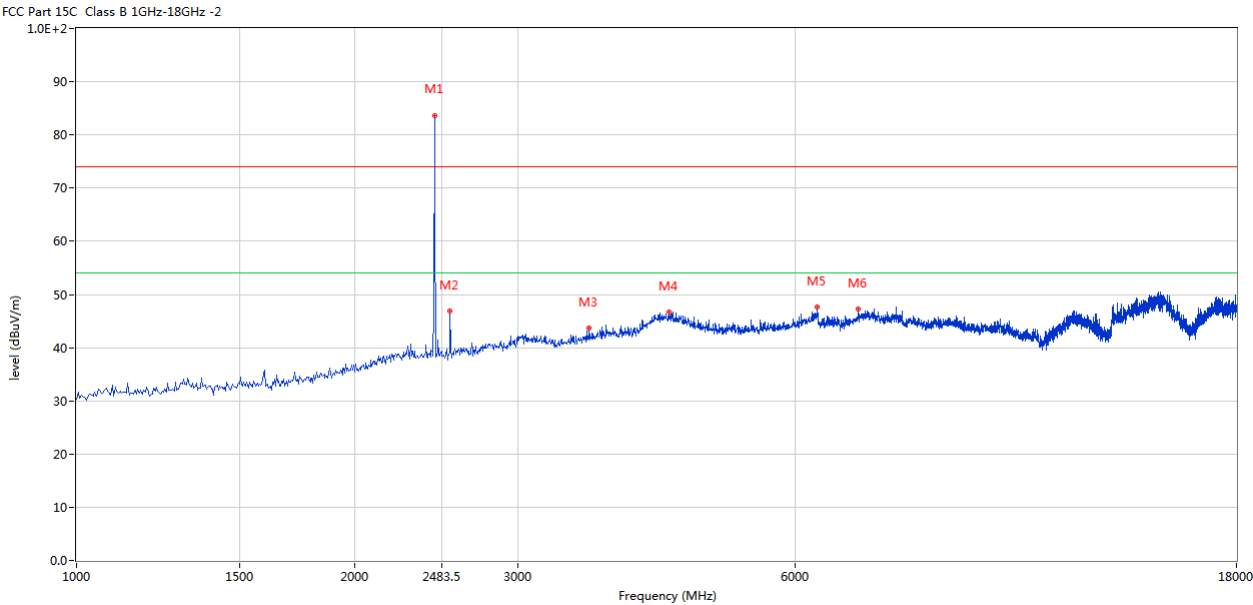
Please refer to the following test plots for details: Middle Channel-2441MHz

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Horizontal



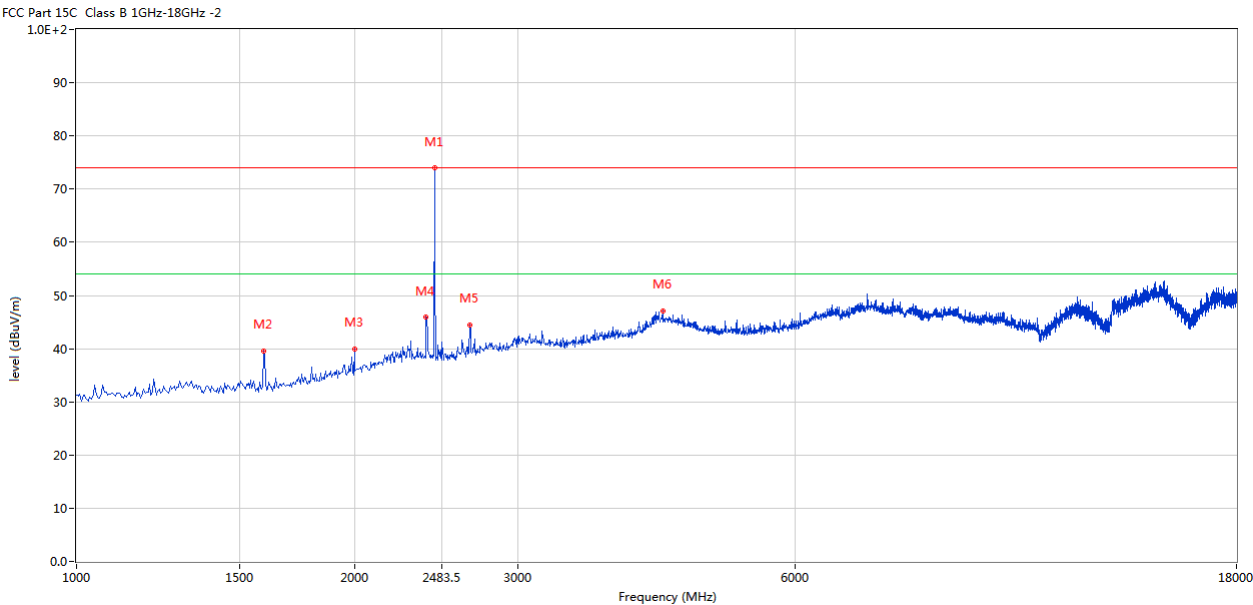
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	83.68	-3.57	114.0	-30.32	Peak	313.00	100	Horizontal	Pass
2	2538.115	46.95	-3.48	74.0	-27.05	Peak	241.00	100	Horizontal	Pass
3	3587.603	43.61	-0.66	74.0	-30.39	Peak	82.00	100	Horizontal	Pass
4	4382.154	46.67	1.97	74.0	-27.33	Peak	25.00	100	Horizontal	Pass
5	6332.417	47.71	5.09	74.0	-26.29	Peak	313.00	100	Horizontal	Pass
6	7020.745	47.18	8.02	74.0	-26.82	Peak	308.00	100	Horizontal	Pass

Vertical

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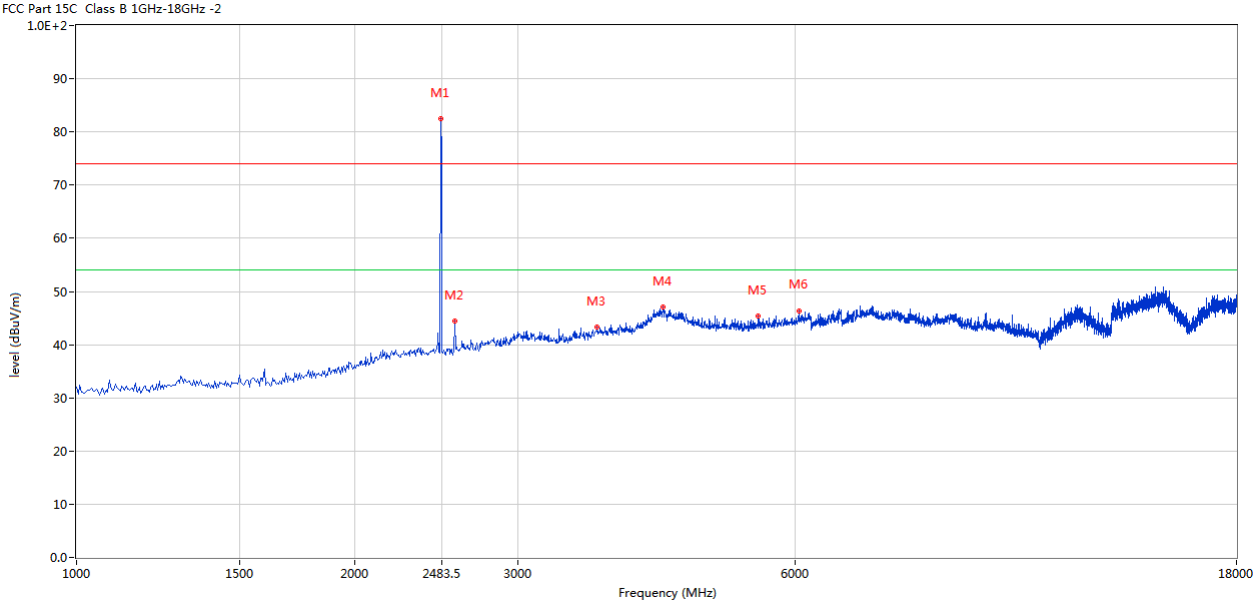
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	73.92	-3.57	114.0	-40.08	Peak	67.00	100	Vertical	Pass
2	1594.851	39.50	-7.98	74.0	-34.50	Peak	266.00	100	Vertical	Pass
3	1998.500	39.97	-5.12	74.0	-34.03	Peak	163.00	100	Vertical	Pass
4	2389.403	45.95	-3.53	74.0	-28.05	Peak	296.00	100	Vertical	Pass
5	2665.584	44.52	-3.08	74.0	-29.48	Peak	158.00	100	Vertical	Pass
6	4309.923	47.08	1.86	74.0	-26.92	Peak	106.00	100	Vertical	Pass

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

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Horizontal



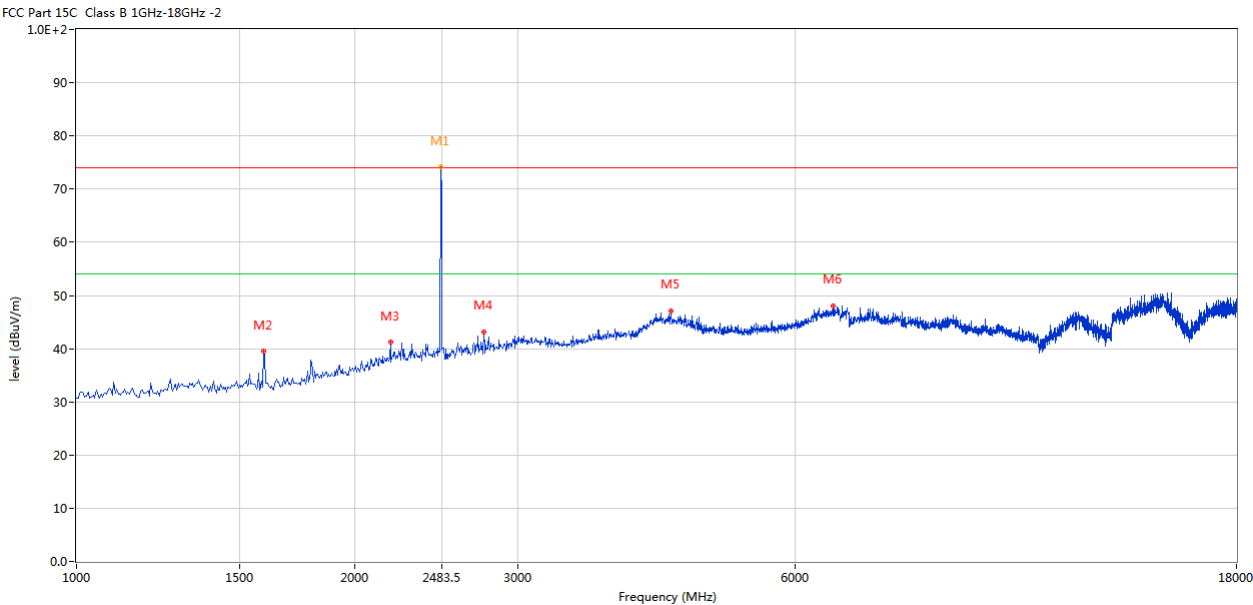
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	82.40	-3.57	114.0	-31.60	Peak	305.00	100	Horizontal	Pass
2	2567.858	44.36	-3.40	74.0	-29.64	Peak	83.00	100	Horizontal	Pass
3	3659.835	43.24	-0.38	74.0	-30.76	Peak	248.00	100	Horizontal	Pass
4	4309.923	47.05	1.86	74.0	-26.95	Peak	57.00	100	Horizontal	Pass
5	5465.634	45.34	3.84	74.0	-28.66	Peak	165.00	100	Horizontal	Pass
6	6051.987	46.35	3.98	74.0	-27.65	Peak	112.00	100	Horizontal	Pass

Vertical

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	74.21	-3.57	114.0	-39.79	Peak	77.00	100	Vertical	Pass
2	1594.851	39.45	-7.98	74.0	-34.55	Peak	259.00	100	Vertical	Pass
3	2185.454	41.28	-3.39	74.0	-32.72	Peak	265.00	100	Vertical	Pass
4	2759.060	43.19	-2.80	74.0	-30.81	Peak	149.00	100	Vertical	Pass
5	4399.150	47.15	2.00	74.0	-26.85	Peak	208.00	100	Vertical	Pass
6	6587.353	48.07	6.15	74.0	-25.93	Peak	26.00	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.

B. General Radiated Emission Data

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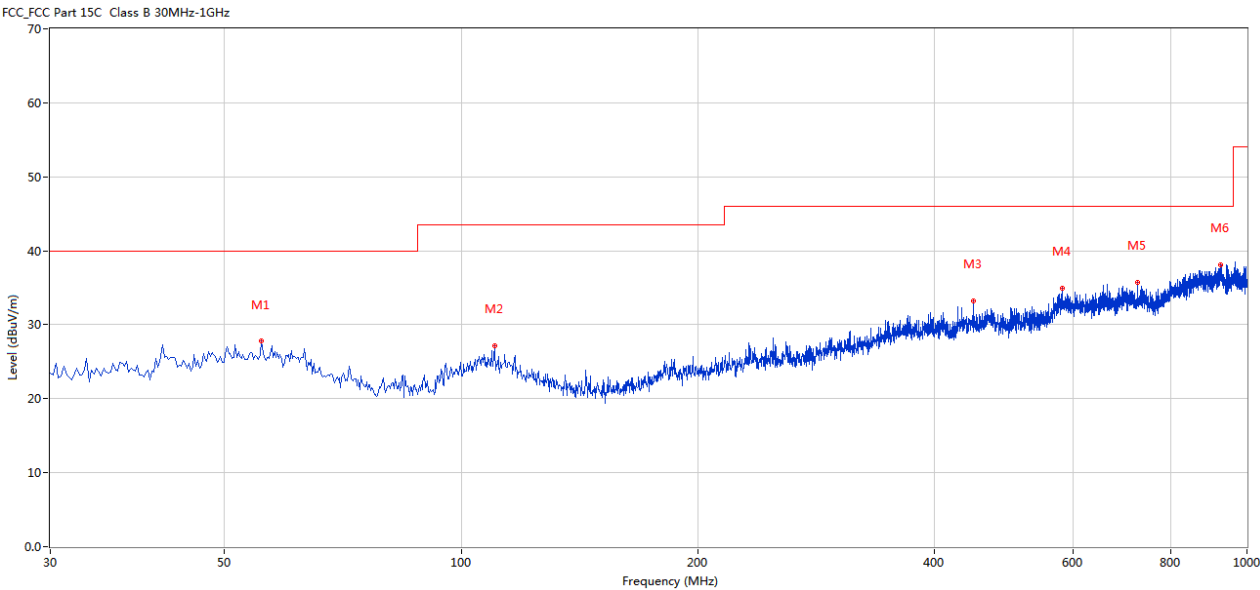


Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition:   Keep Tx transmitting

Results:    **Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	55.699	27.76	-5.08	40.0	12.24	Peak	157.00	100	Horizontal	Pass
2	110.247	27.10	-5.94	43.5	16.40	Peak	122.00	100	Horizontal	Pass
3	448.935	33.17	-0.91	46.0	12.83	Peak	173.00	100	Horizontal	Pass
4	582.519	34.96	1.74	46.0	11.04	Peak	240.00	100	Horizontal	Pass
5	725.801	35.78	2.22	46.0	10.22	Peak	177.00	100	Horizontal	Pass
6	924.844	38.15	5.31	46.0	7.85	Peak	167.00	100	Horizontal	Pass

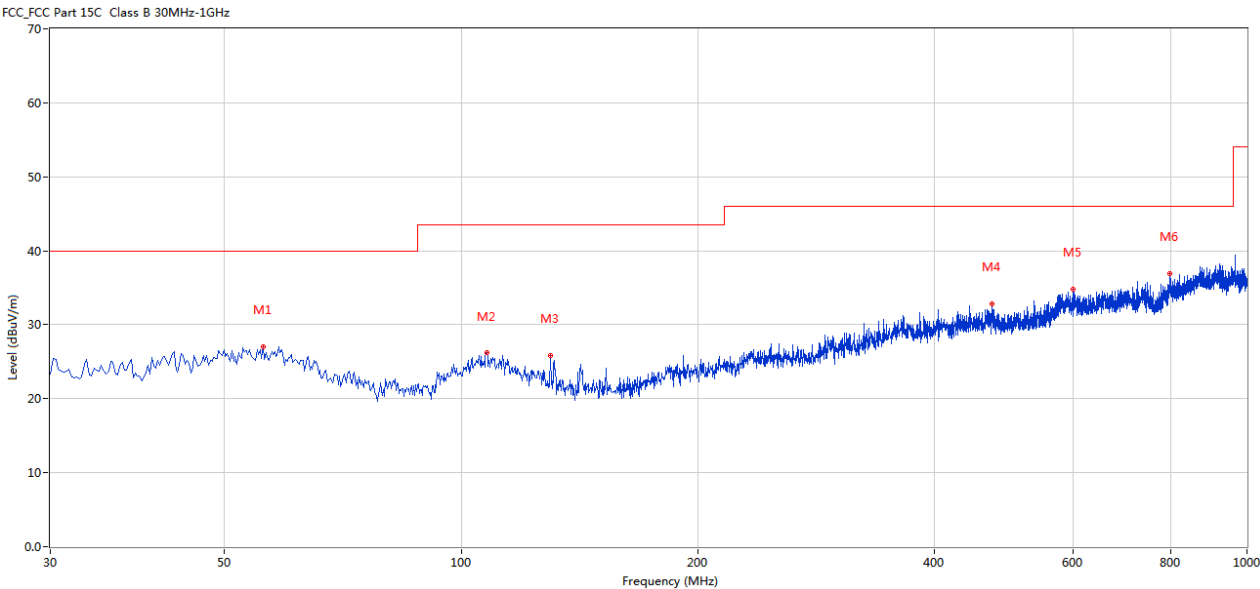
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition:   Keep Tx transmitting

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**Results: Pass**  
Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	55.941	26.98	-5.06	40.0	13.02	Peak	1.00	100	Vertical	Pass
2	107.823	26.17	-6.02	43.5	17.33	Peak	132.00	100	Vertical	Pass
3	129.885	25.80	-8.55	43.5	17.70	Peak	230.00	100	Vertical	Pass
4	474.391	32.87	-0.34	46.0	13.13	Peak	142.00	100	Vertical	Pass
5	599.975	34.75	1.61	46.0	11.25	Peak	245.00	100	Vertical	Pass
6	798.048	36.92	3.26	46.0	9.08	Peak	146.00	100	Vertical	Pass

7. Band Edge

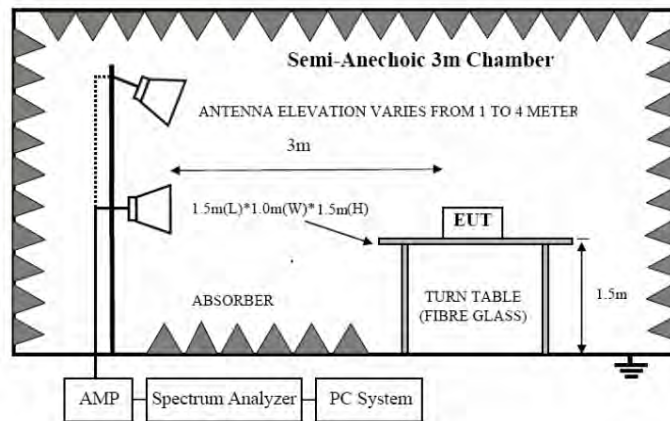
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### 7.1 Test Method and test Procedure:

- (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.

### 7.6 Test Result

Product:	Wireless earphone	Polarity	Horizontal
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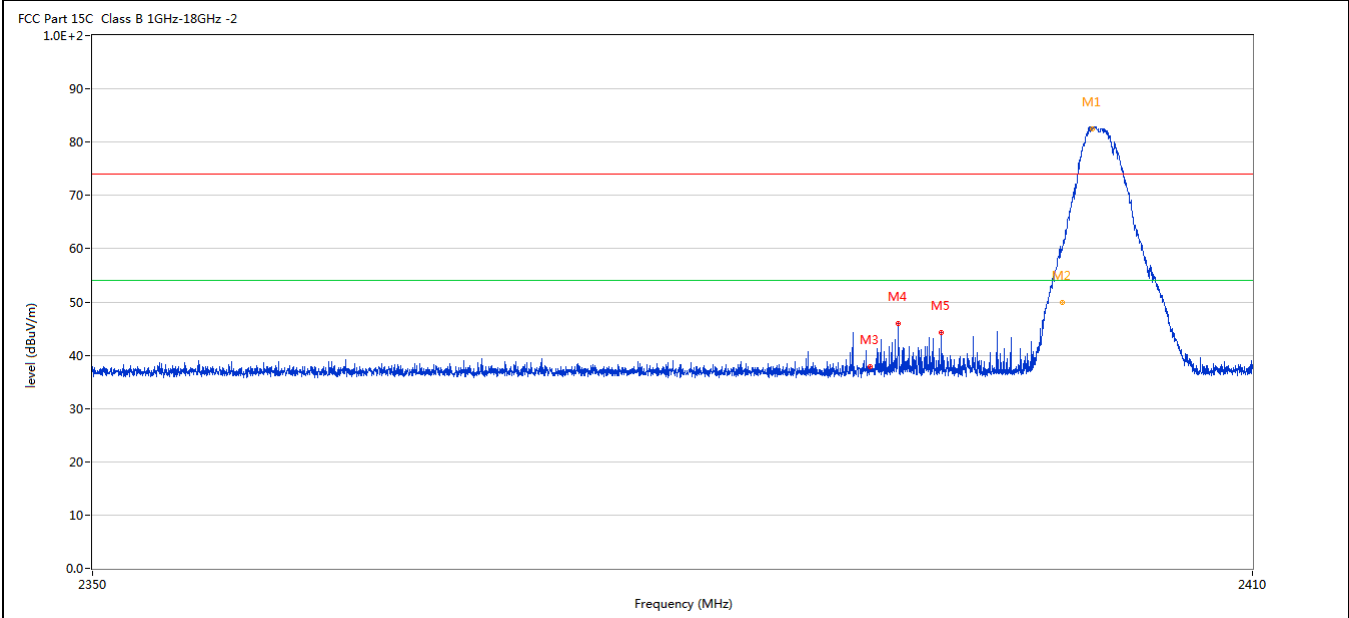
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Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.632	82.42	-3.57	74.0	8.42	Peak	147.00	100	Horizontal	N/A
2	2400.042	59.91	-3.57	74.0	-14.09	Peak	305.00	100	Horizontal	Pass
2**	2400.042	49.84	-3.57	54.0	-4.16	AV	305.00	100	Horizontal	Pass
3	2390.040	37.86	-3.53	74.0	-36.14	Peak	339.00	100	Horizontal	Pass
4	2391.525	45.96	-3.54	74.0	-28.04	Peak	290.00	100	Horizontal	Pass
5	2393.774	44.27	-3.54	74.0	-29.73	Peak	339.00	100	Horizontal	Pass

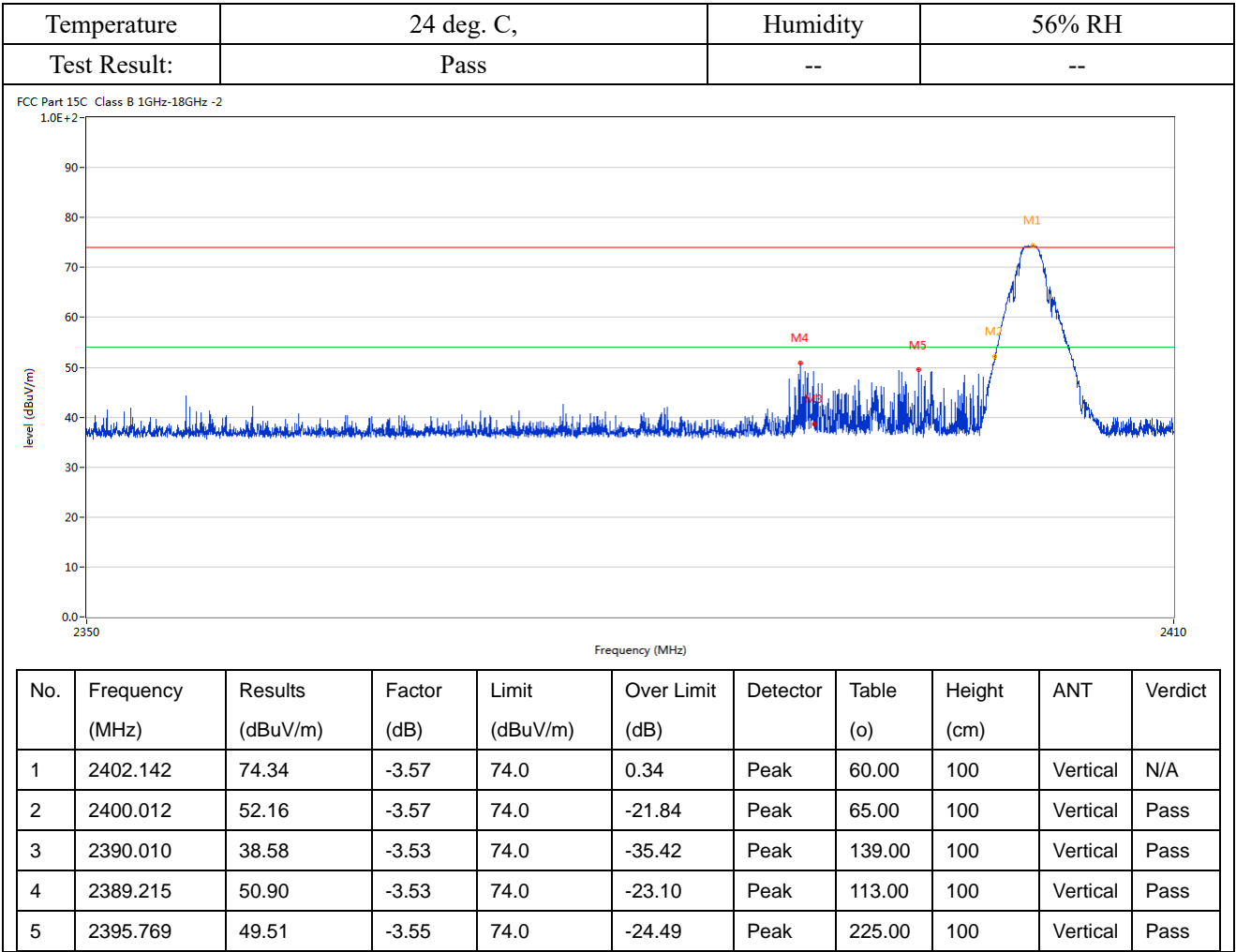
Product:	Wireless earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC7.4V

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

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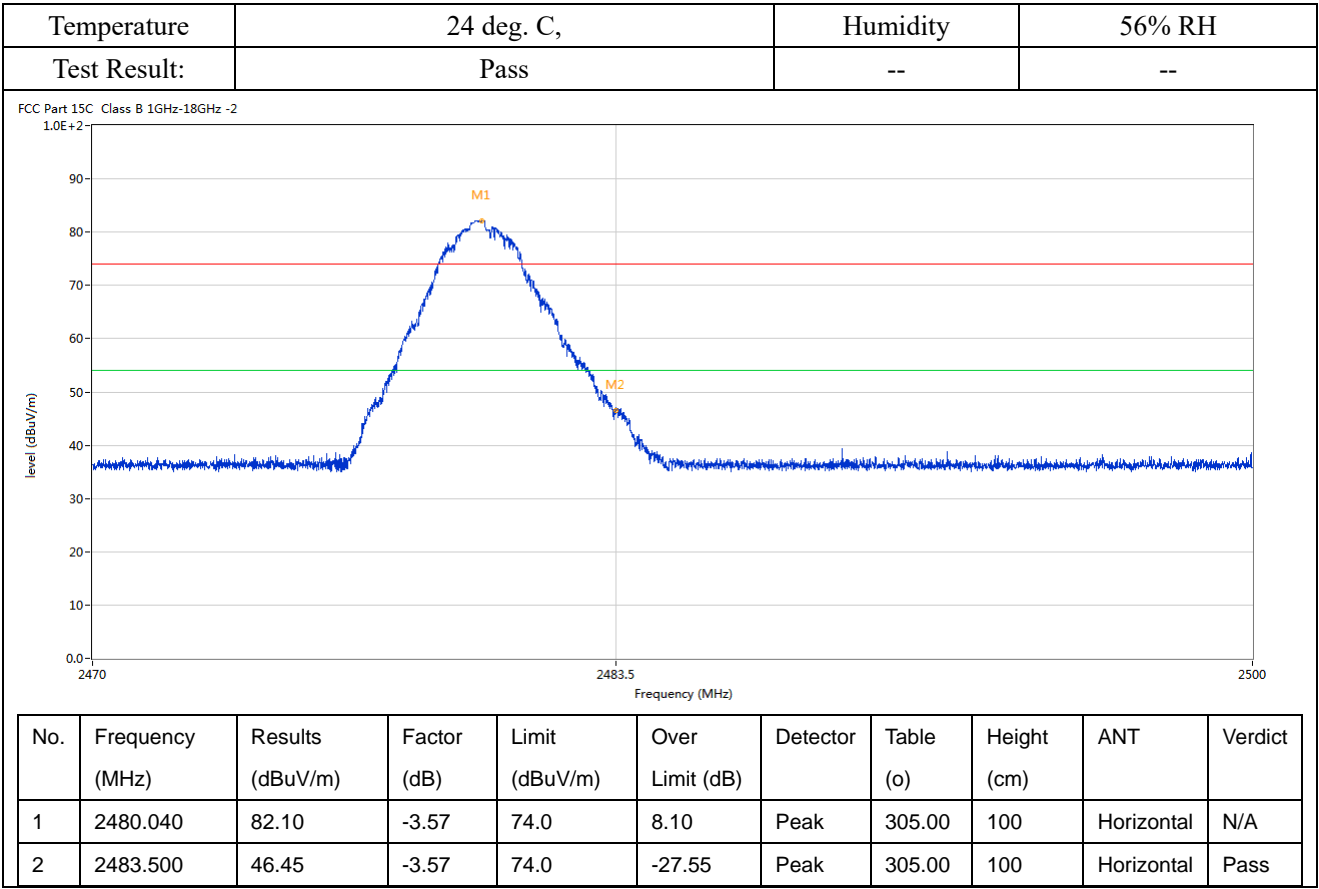


Product:	Wireless earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V

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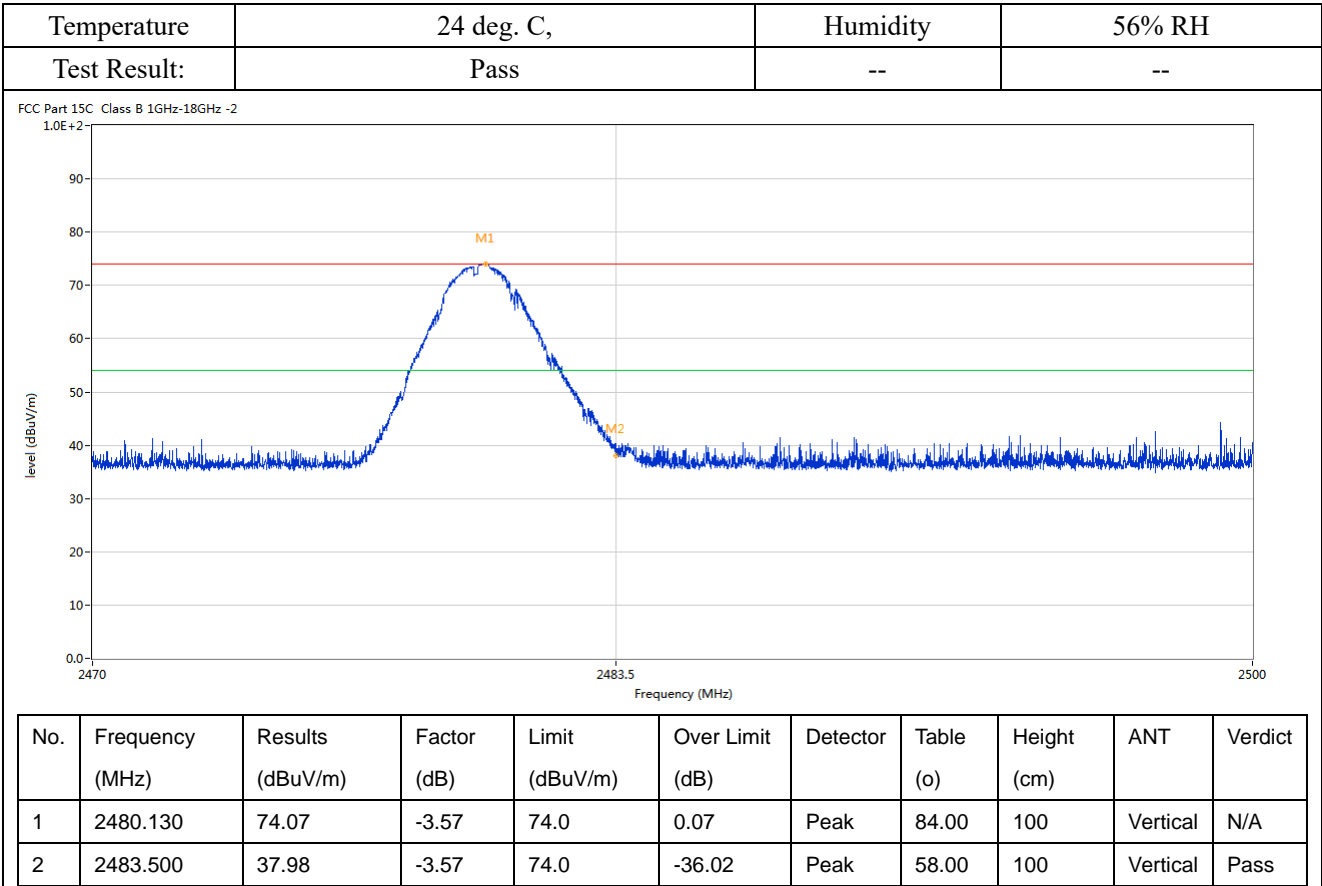


Product:	Wireless earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC7.4V

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Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.  
2. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

8.0 Antenna Requirement

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### **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 2.78dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

## **9.0 20dB Bandwidth Measurement**

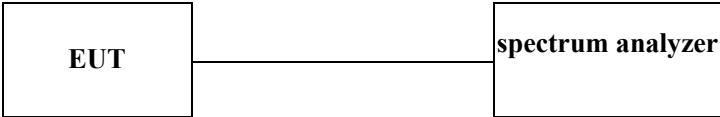
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**Test Configuration**



**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.

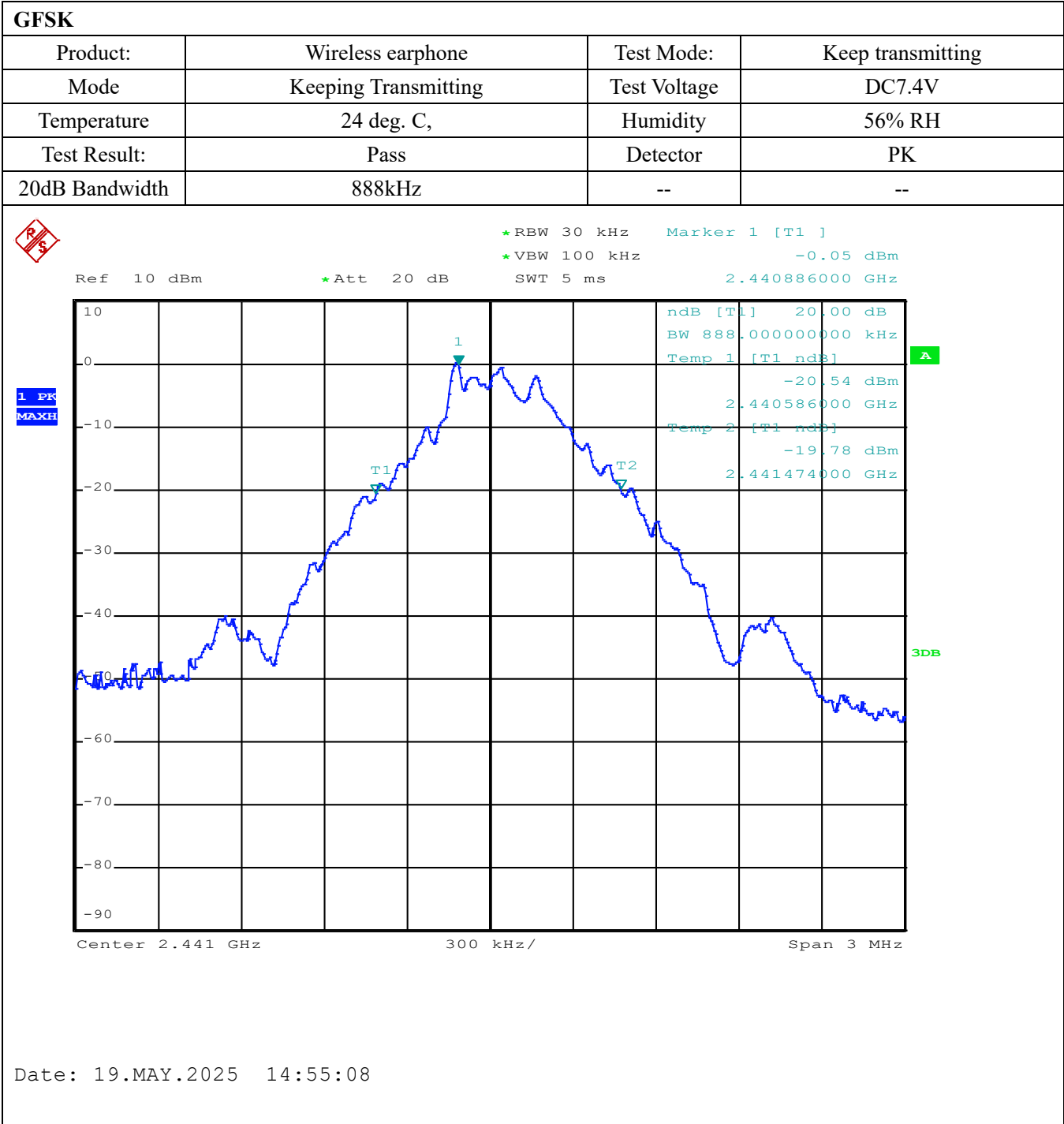
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

**Limit**

N/A

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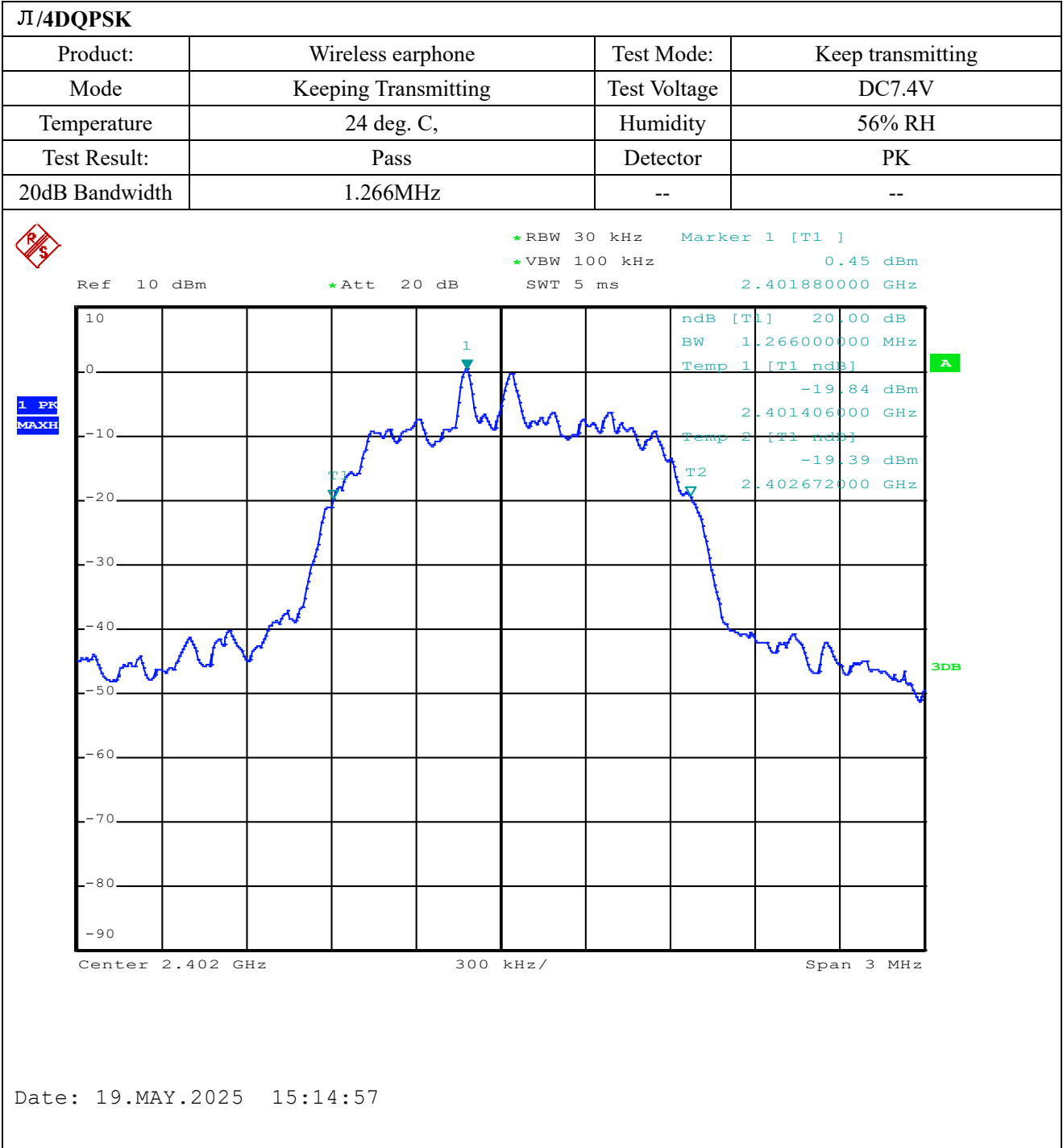
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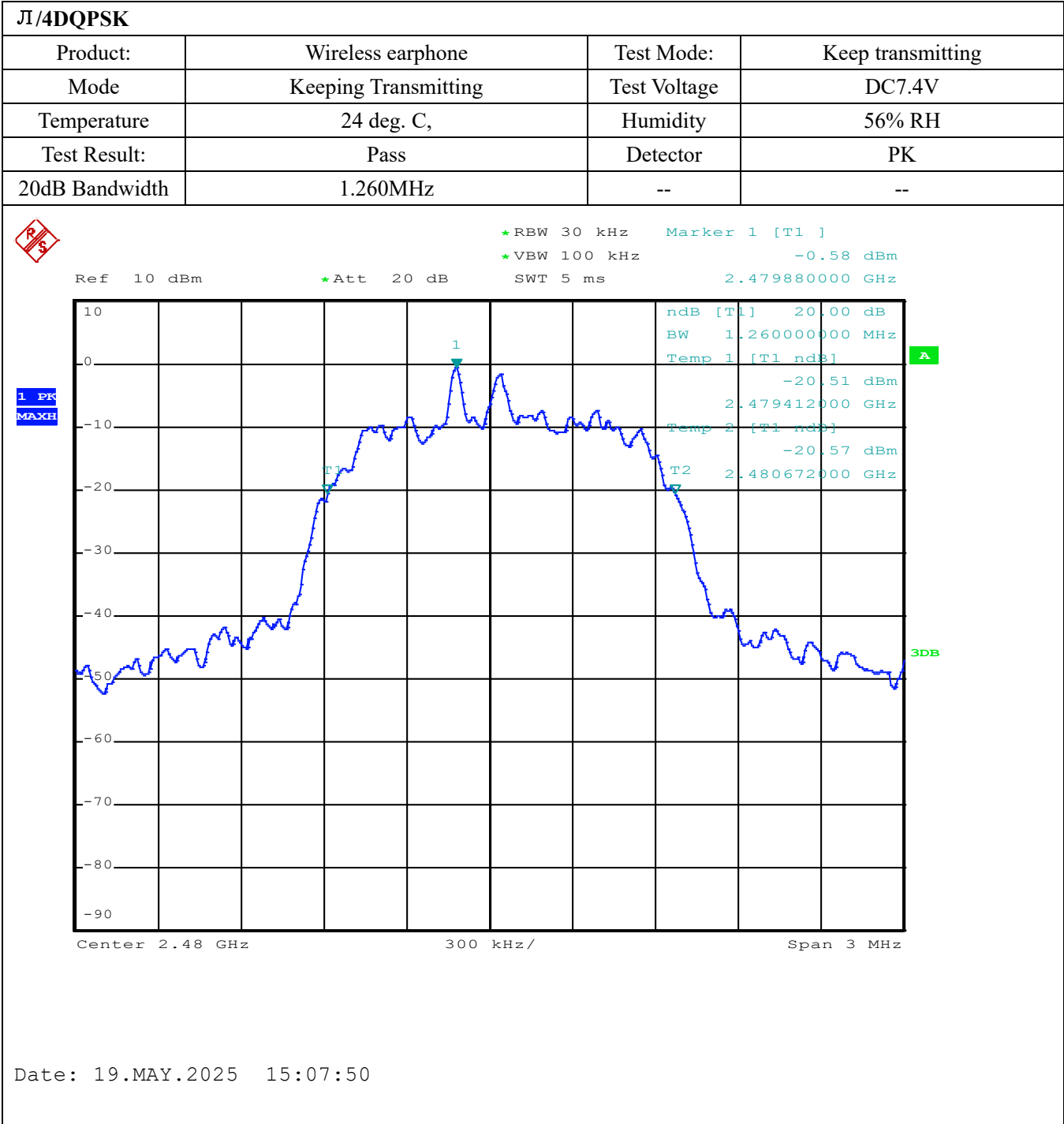






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## 10.0 FCC ID Label

**FCC ID: 2BQJJ-AL-WE001**

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



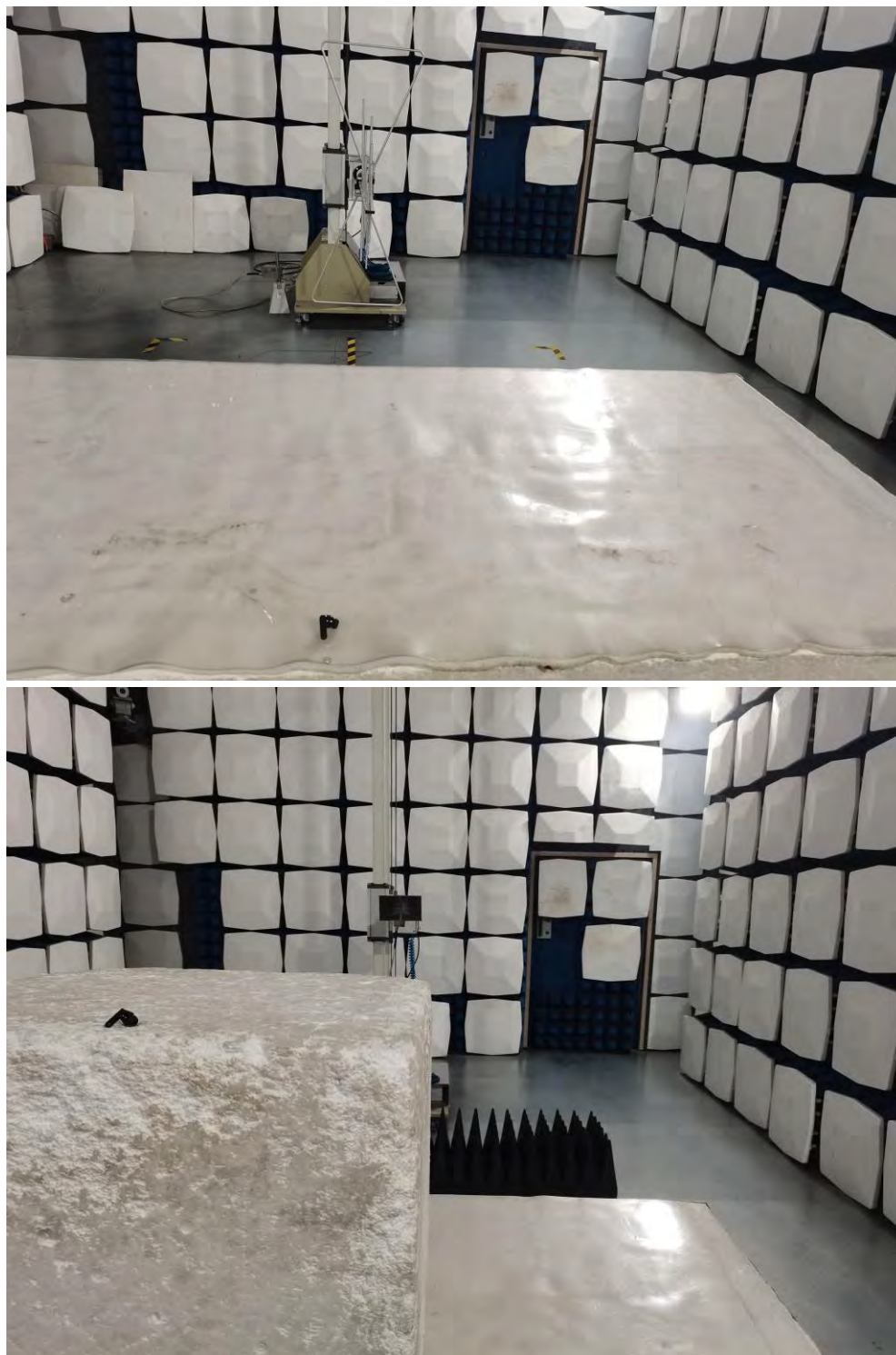
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Radiated emission test view



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11.2 Photographs – EUT

Outside View- charger base



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Outside View- charger base



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Outside View- charger base



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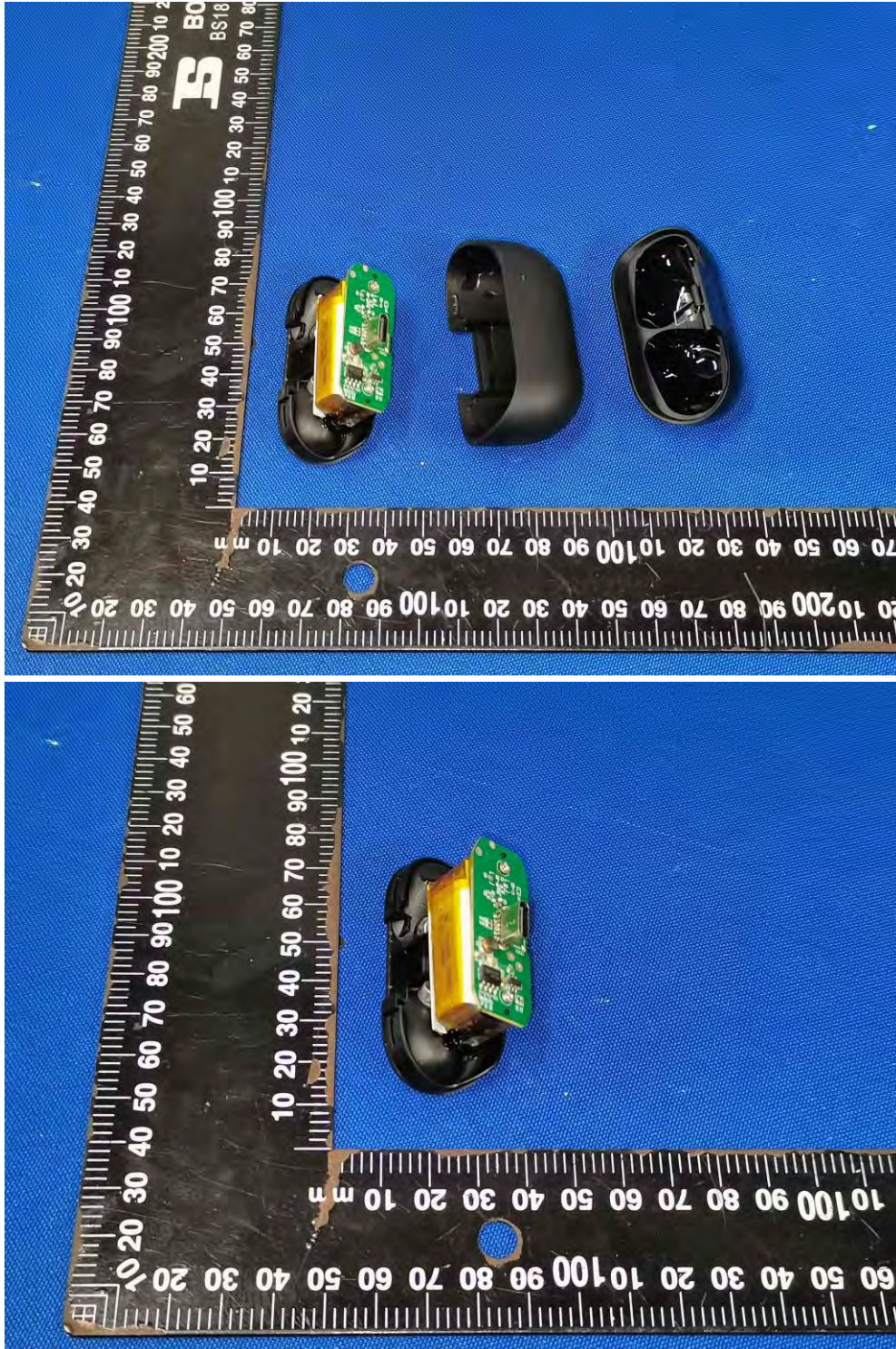
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Inside View - charger base



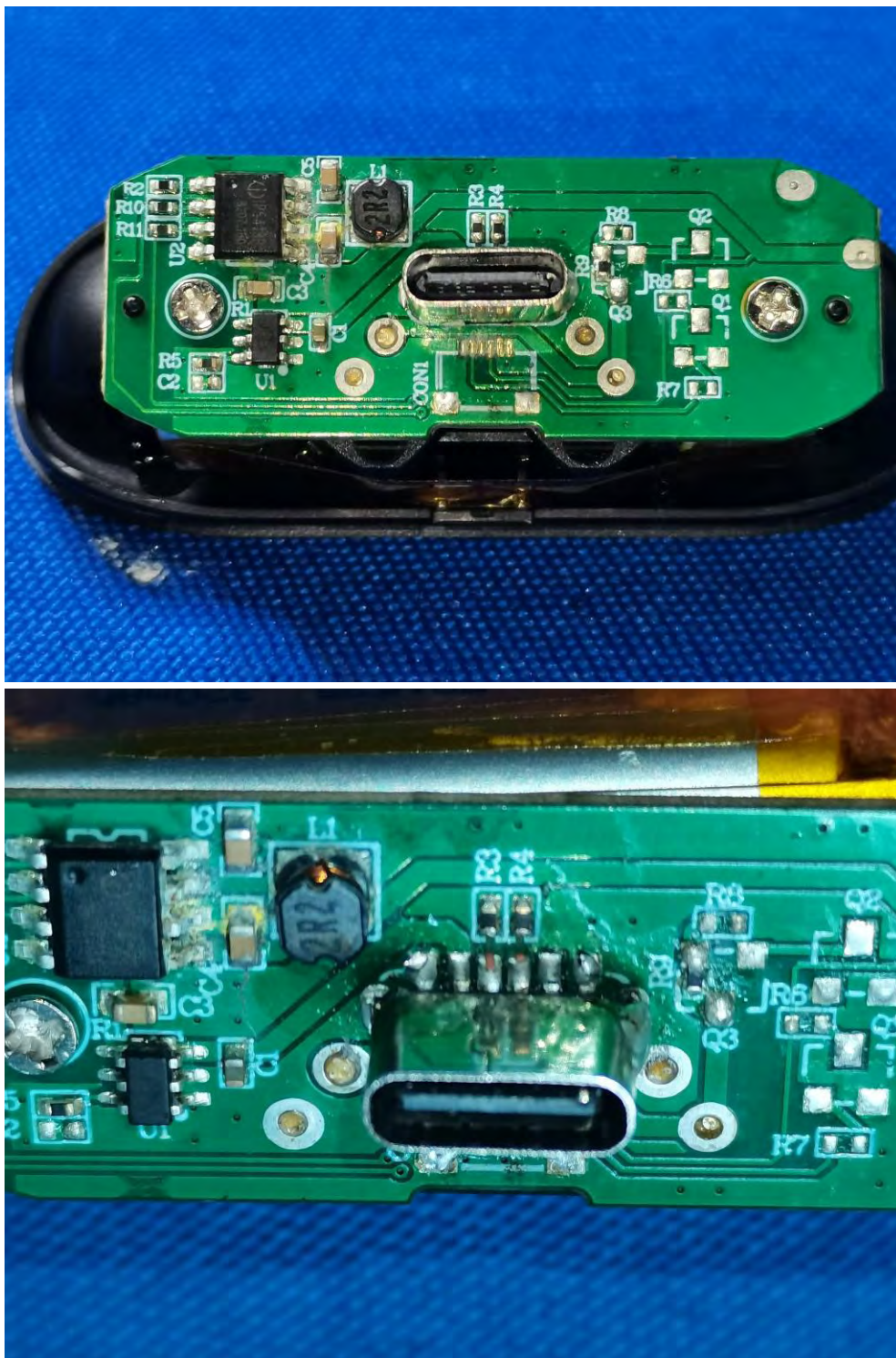
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Inside View - charger base



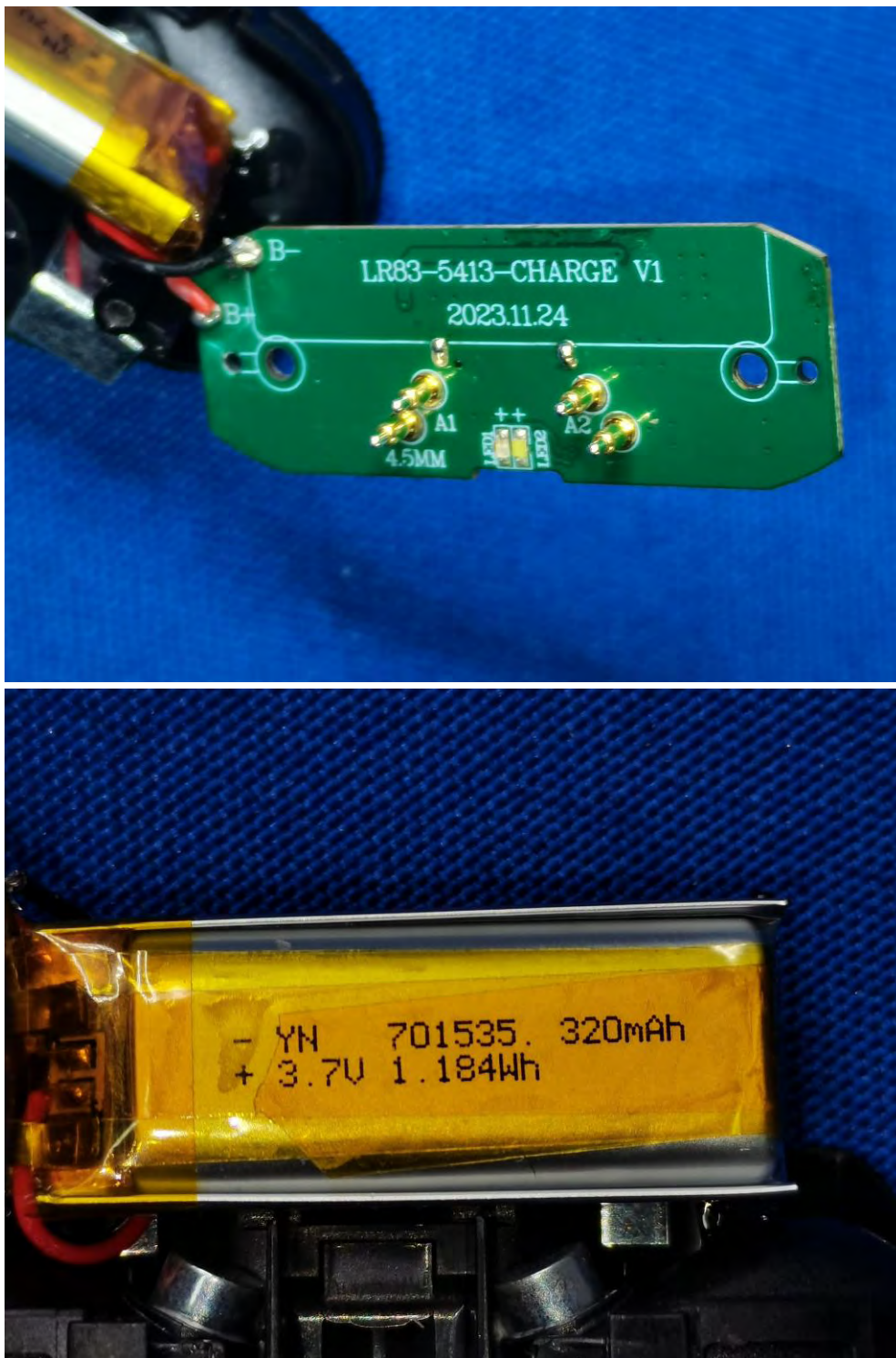
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Inside View - charger base



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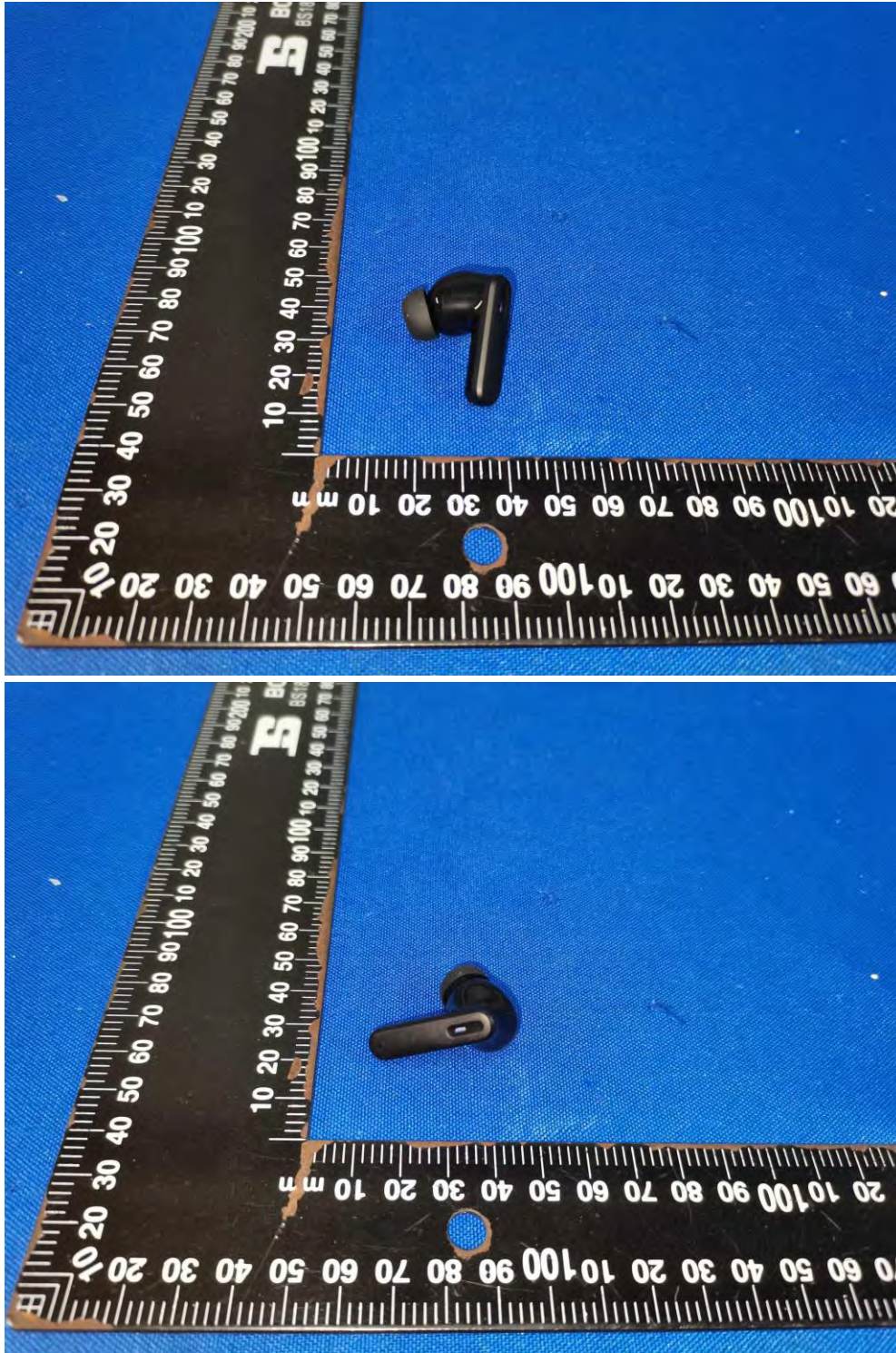
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Outside View - Left earphone



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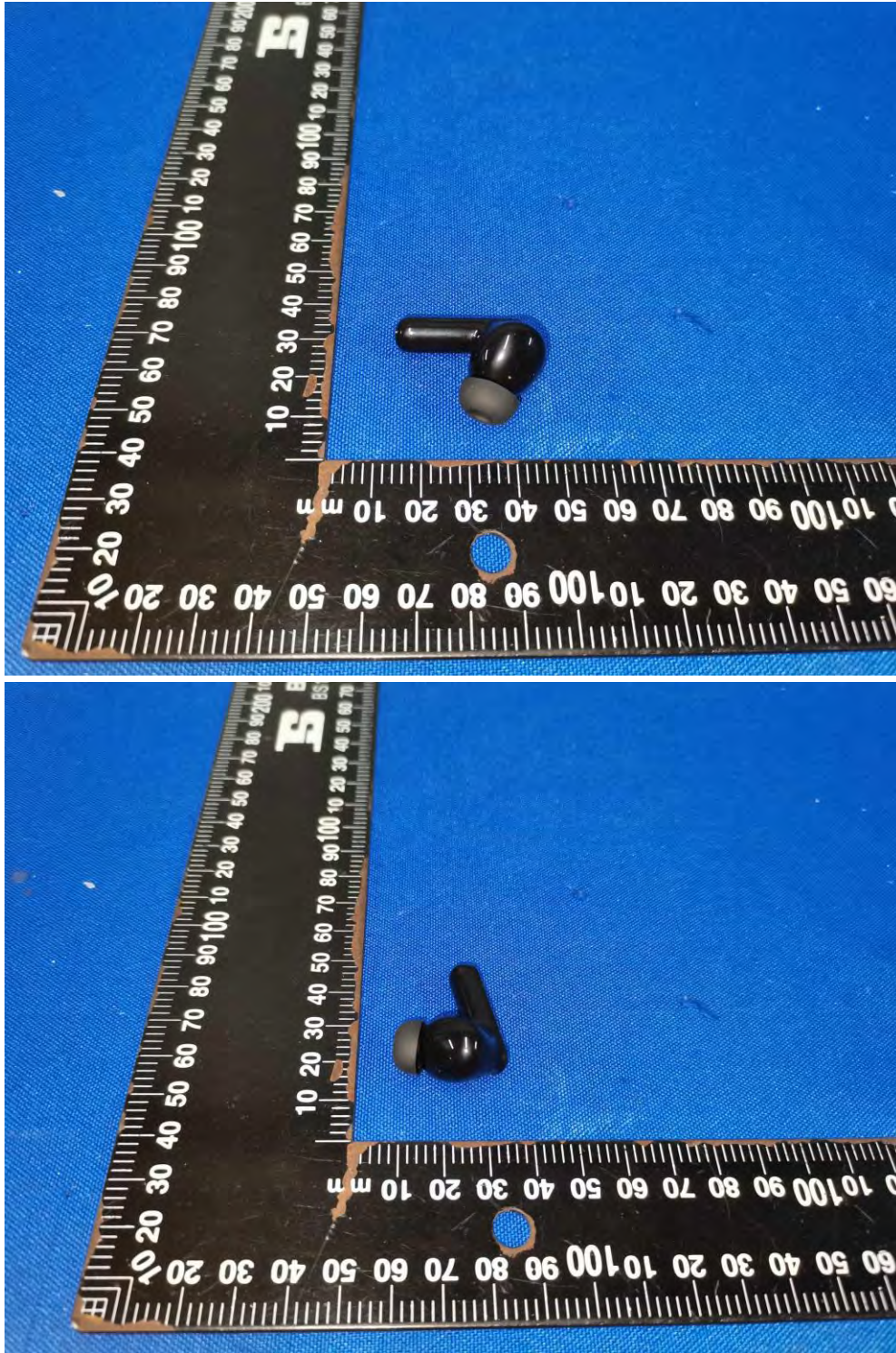
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Outside View - Left earphone



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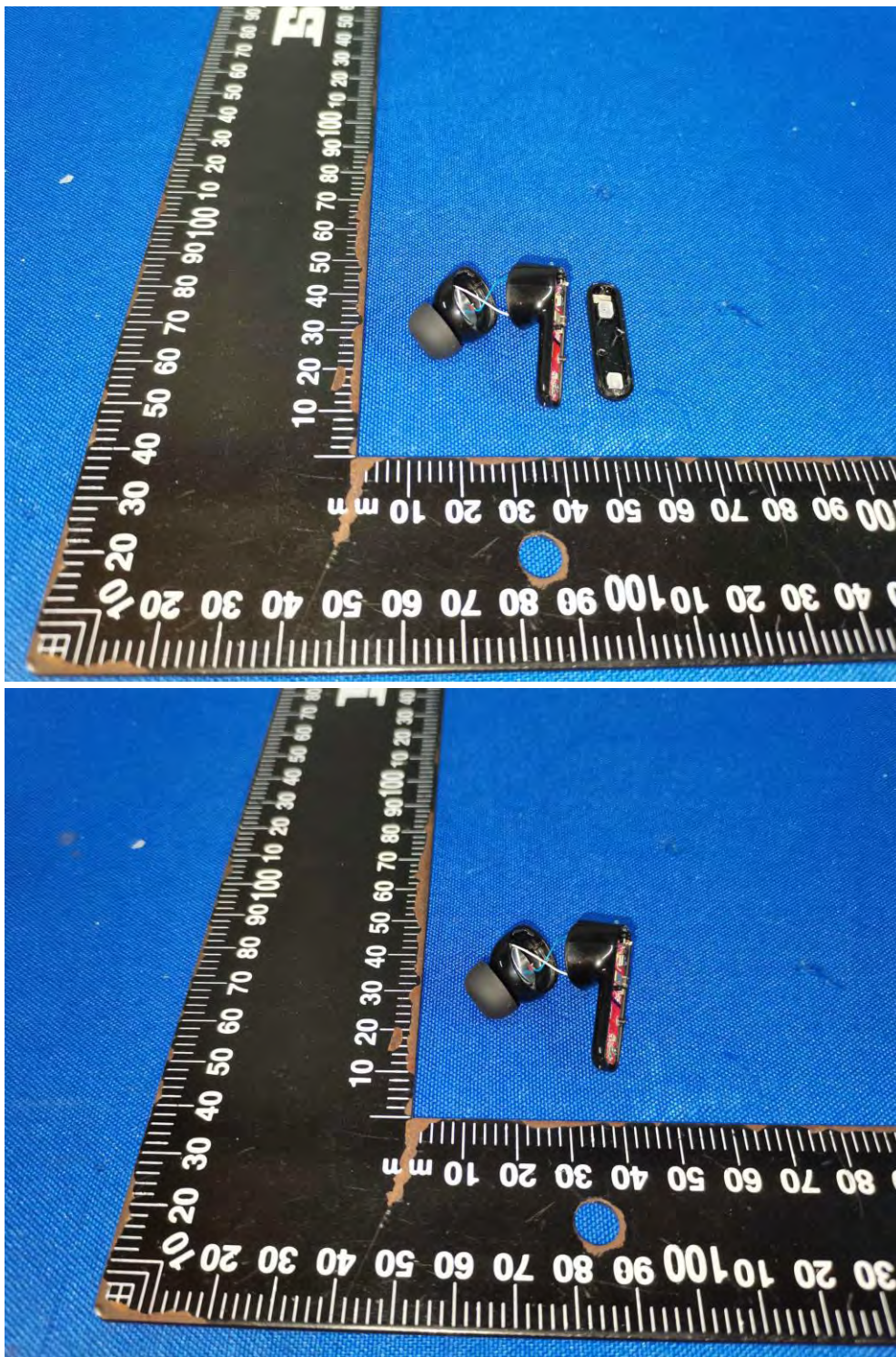
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Inside View - Left earphone



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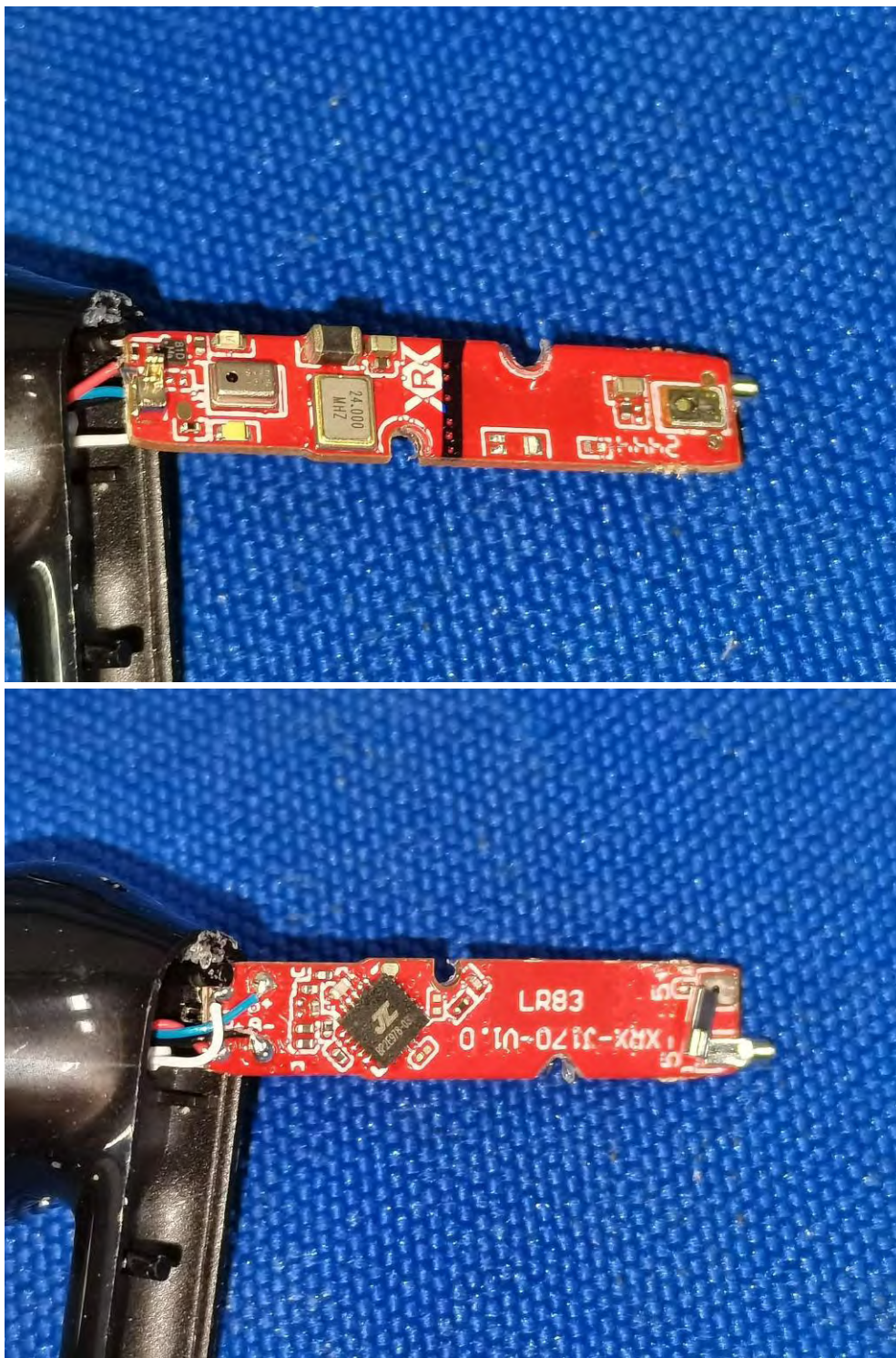
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Inside View - Left earphone



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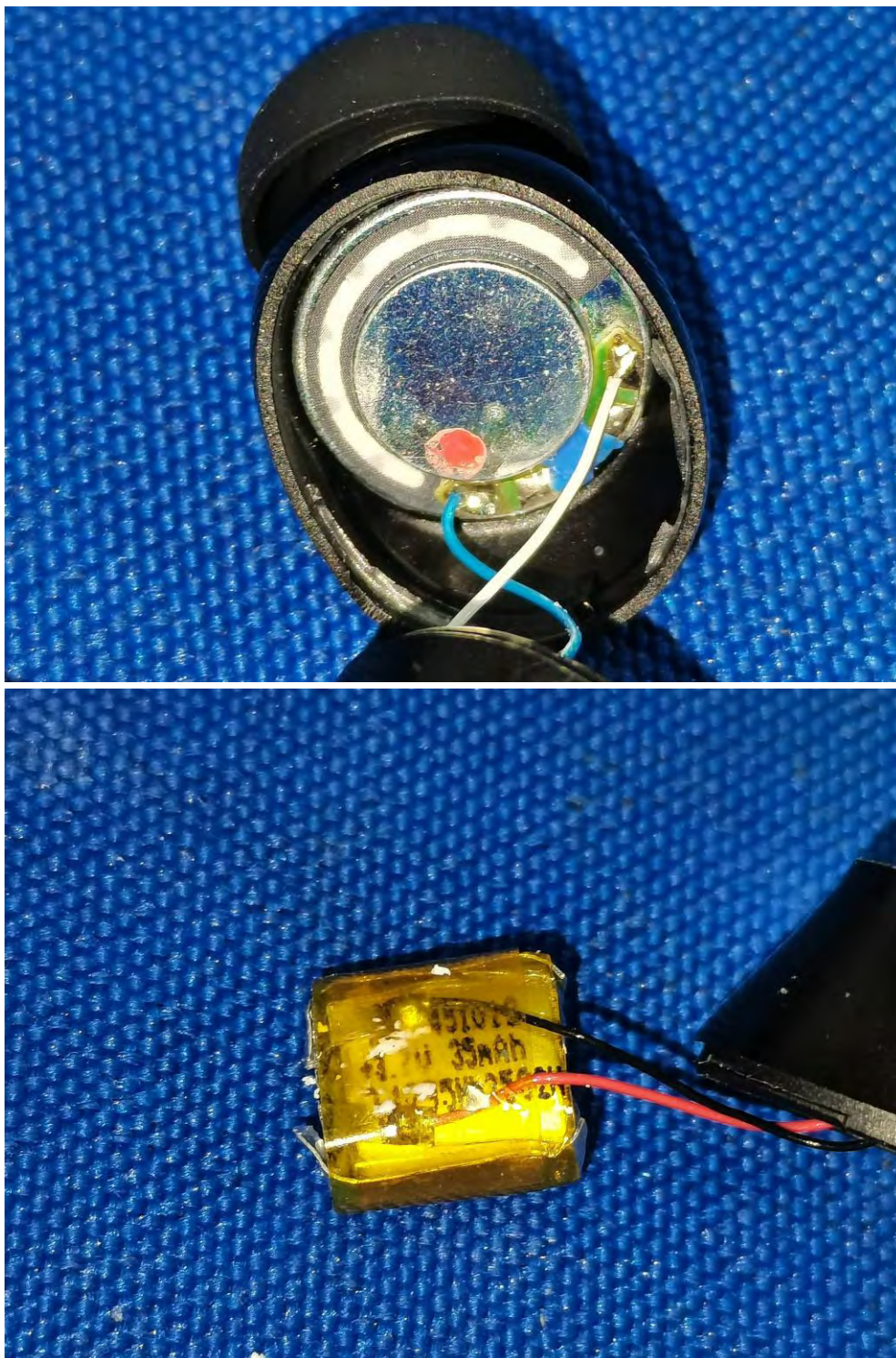
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Inside View - Left earphone



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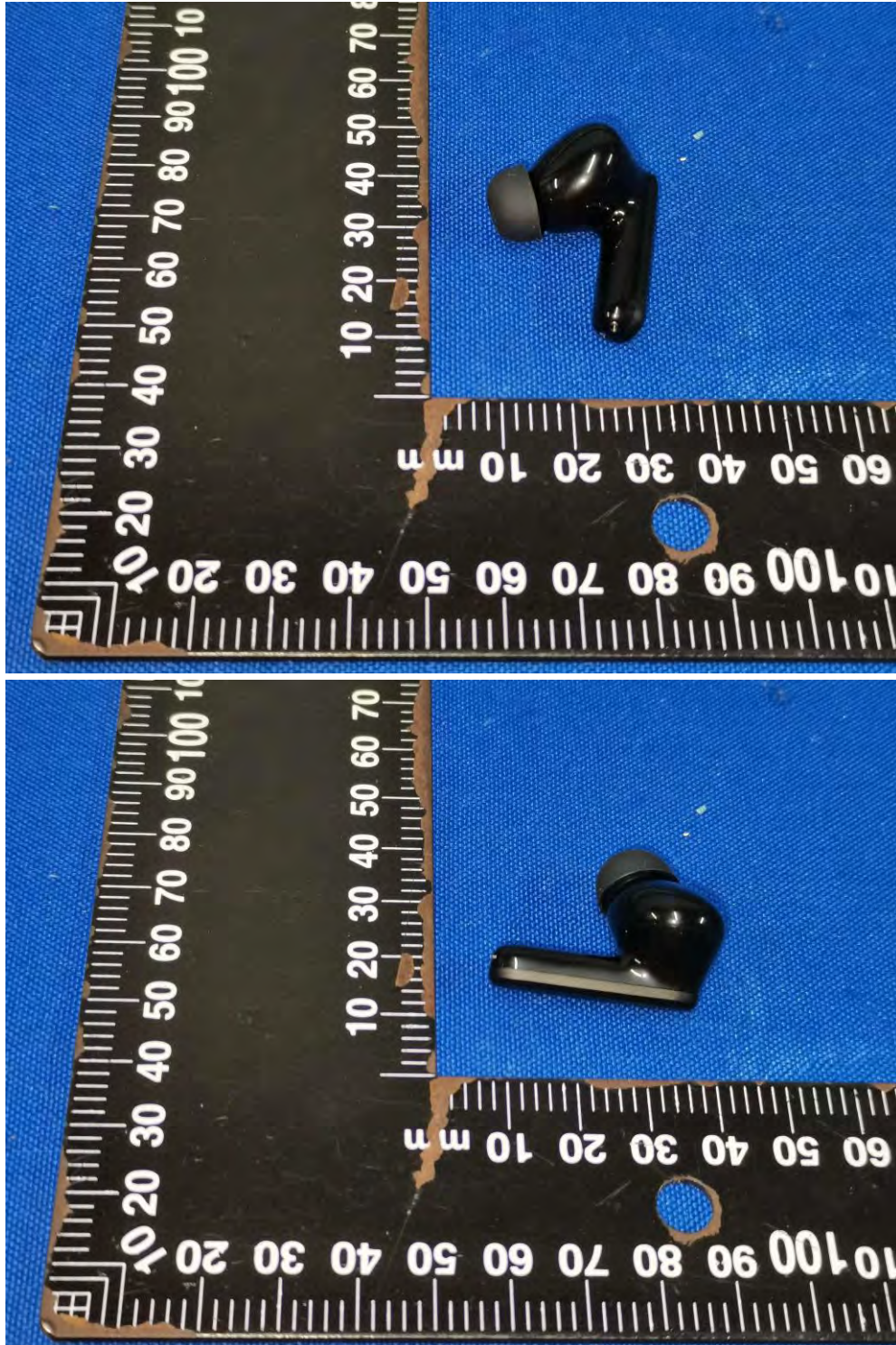
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Outside View - Right earphone



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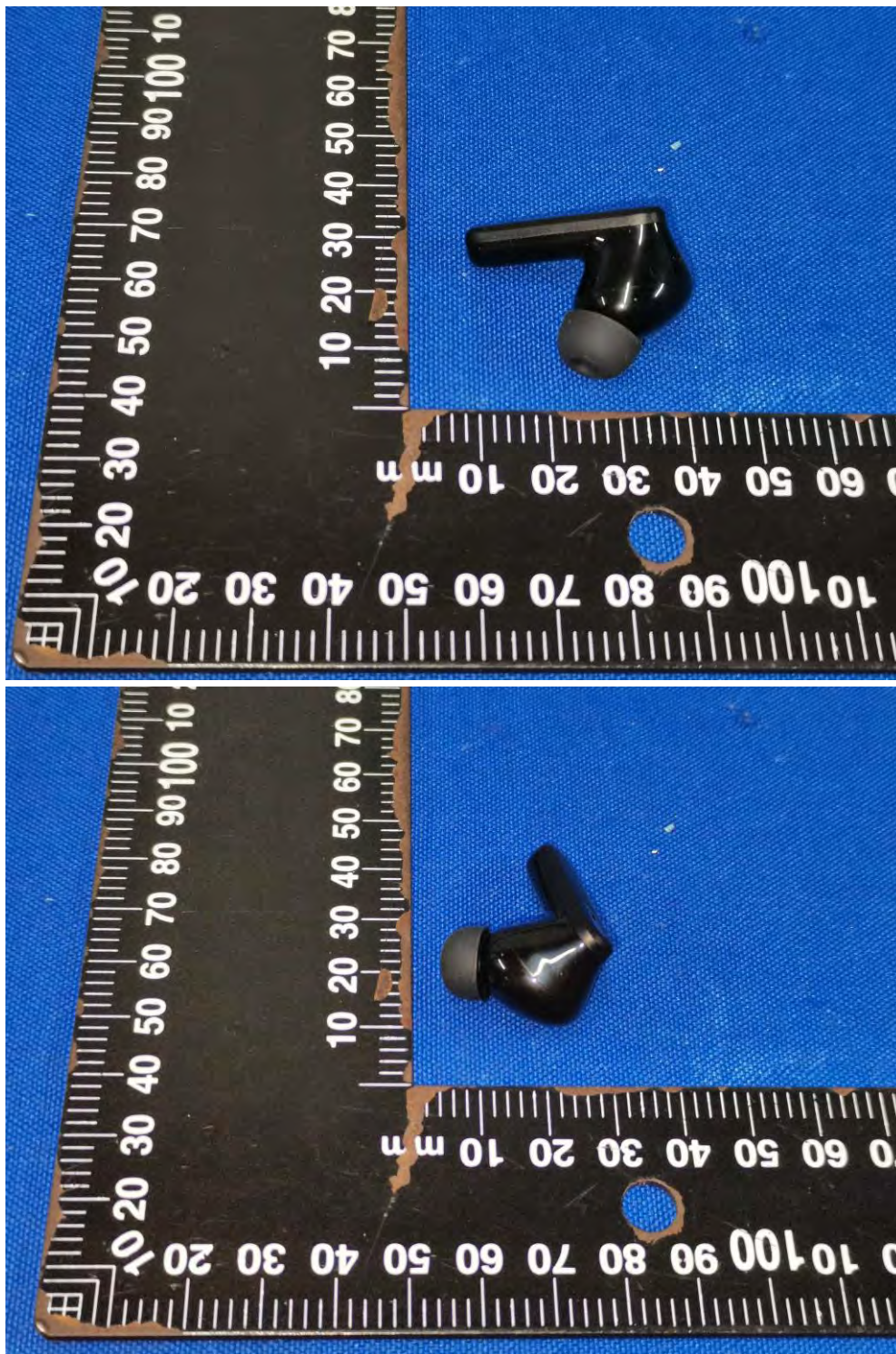
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Outside View - Right earphone



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Inside View - Right earphone



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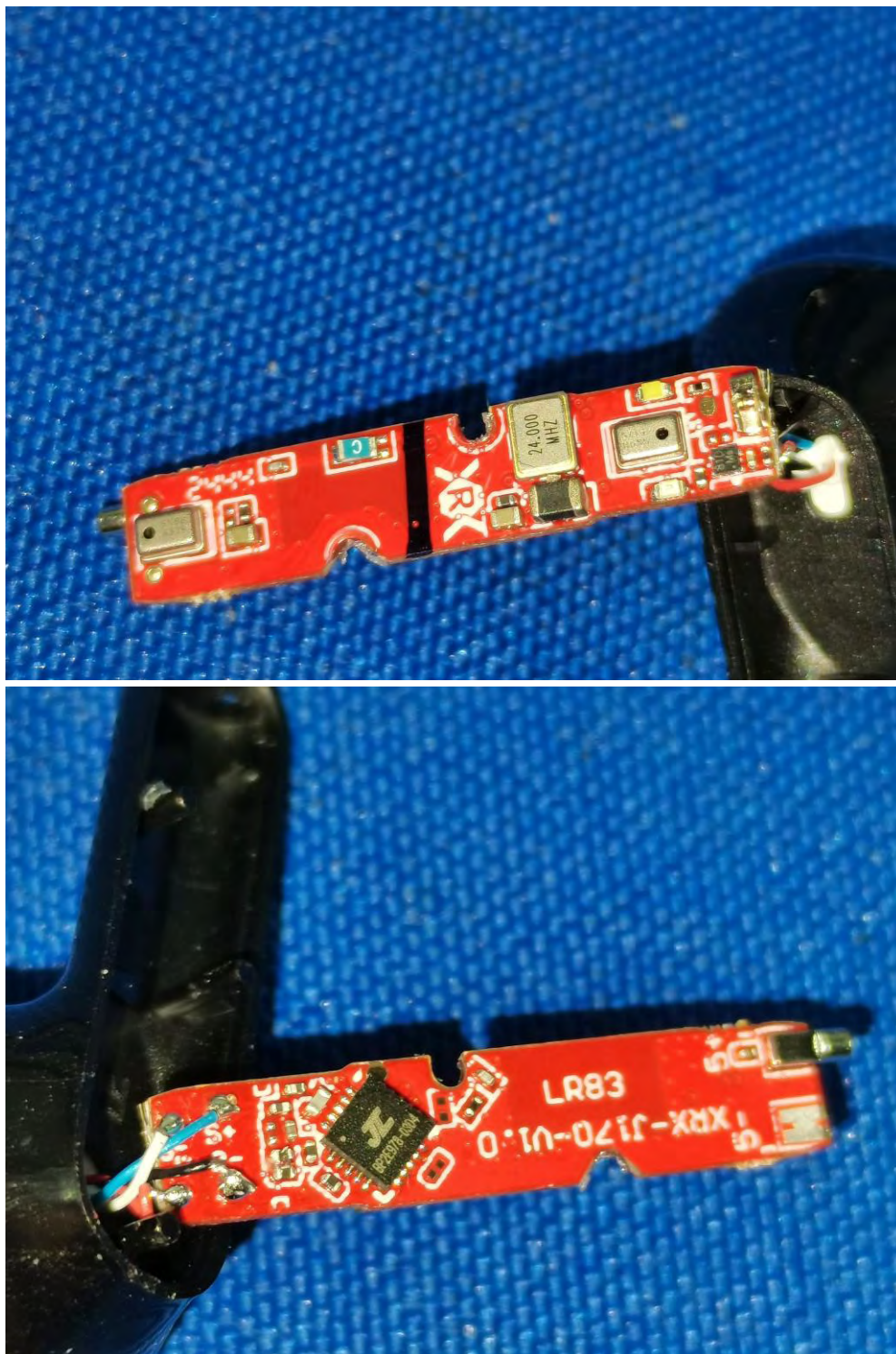
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Inside View - Right earphone



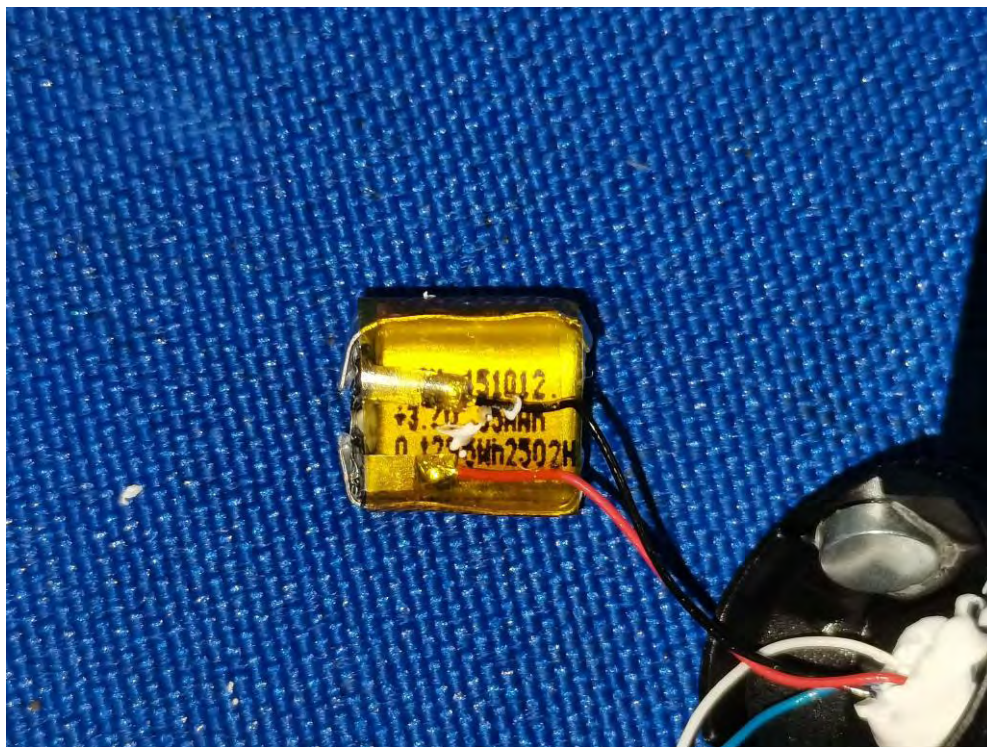
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Inside View - Right earphone



--End of the report--

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