



Report No.: TW2307388E  
Applicant: TECHNOFASHION INC.  
Product: Wireless Earphone  
Model No.: UCCWS07, UCCWS07-1, UCCWS07-2, UCCWS07-3,  
UCCWS07-4  
Trademark: N/A

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads "Terry Tang".

Terry Tang

Manager

Dated: August 08, 2023

**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

TEST REPORT



### **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 17025:2017 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

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

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

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

#### **A2LA (Certification Number:5013.01)**

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

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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le 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: TECHNOFASHION INC.  
Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014  
Telephone: +1 (973) 866 7373  
Fax: --

### 1.3 Description of EUT

Product: Wireless Earphone  
Manufacturer: TECHNOFASHION INC.  
Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014  
Trademark: N/A  
Model Number: UCCWS07  
Additional Model Name: UCCWS07-1, UCCWS07-2, UCCWS07-3, UCCWS07-4  
Rating: DC5V input or Built-in DC3.7V, 25mAh Li-ion battery for earphones;  
DC5V/0.2A input or Built-in DC3.7V, 230mAh Li-ion battery for charger base.  
Modulation Type: GFSK, JI/4DQPSK for Bluetooth  
Operation Frequency: 2402-2480MHz  
Channel Number: 79  
Channel Separation: 1MHz  
Hardware Version: V1  
Software Version: 236  
Serial No.: UCCWS07202306  
Antenna Designation: Chip antenna with gain 1.6dBi Max for left and right earphones (Get from the antenna specification)

### 1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2023-07-24 to 2023-08-08

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

*Andy-xing*

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	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
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	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2023-07-14	2024-07-13
RF Cable	Zhengdi	7m	--	2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

## 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

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.203</b>	<b>Antenna Requirement</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit</b>	<b>Field Strength of Fundamental</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.209</b>	<b>Radiated Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>Pass</b>	<b>Complies</b>

#### 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

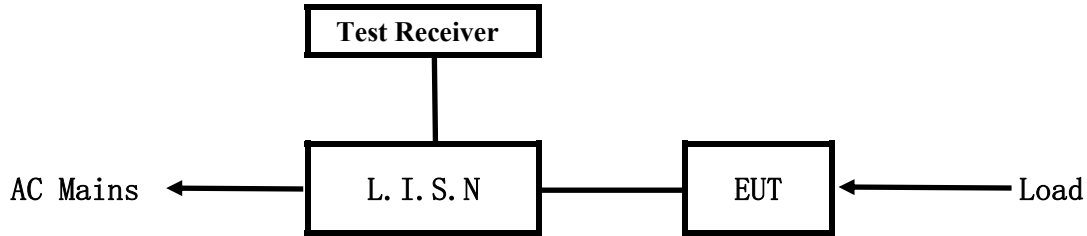
**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES**

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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



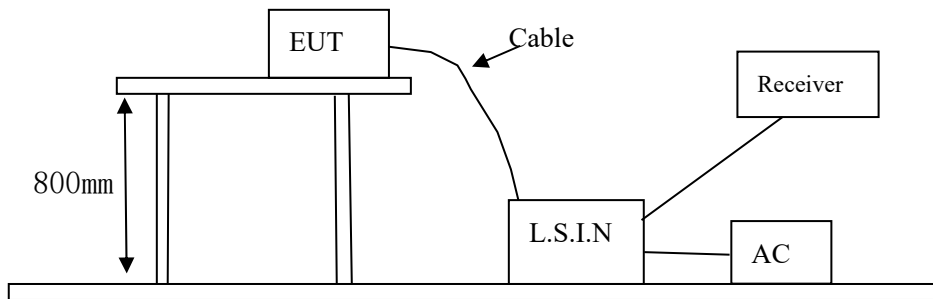
EUT: Equipment Under Test

### 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
Wireless Earphone	TECHNOFASHION INC.	UCCWS07, UCCWS07-1, UCCWS07-2, UCCWS07-3, UCCWS07-4	2AZBO-N00026

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

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

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (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:



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

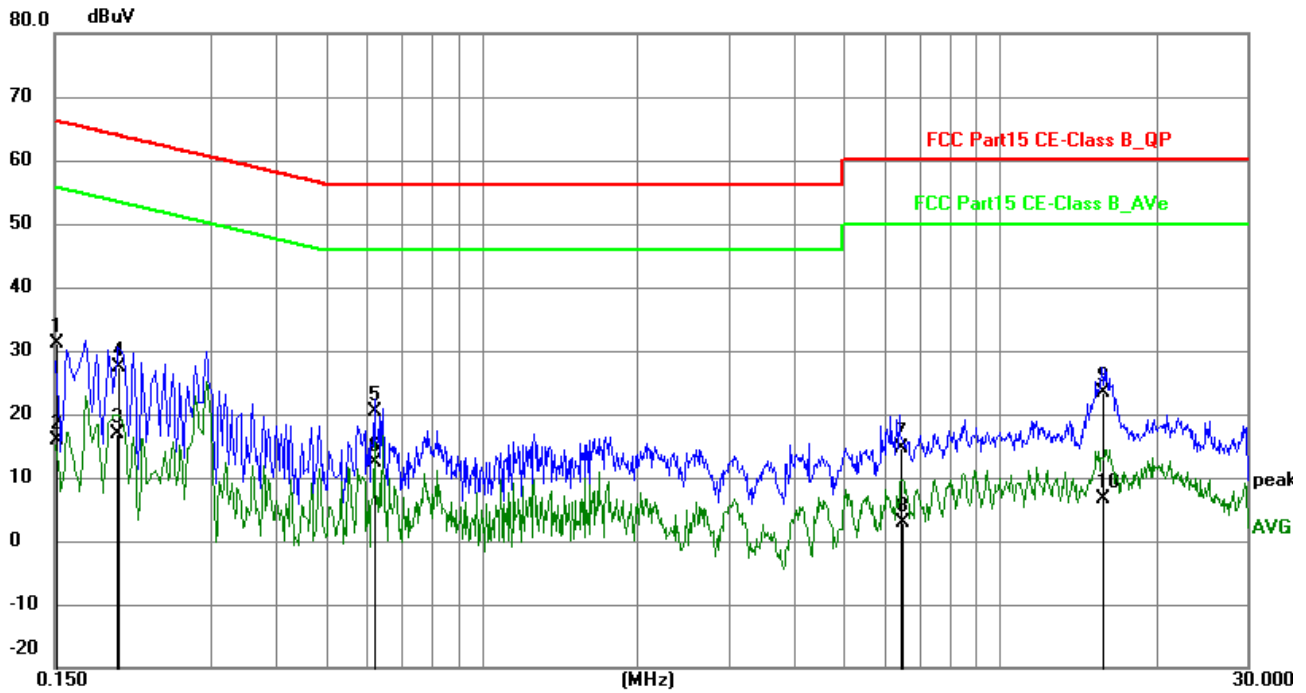
**EUT Operating Environment**

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

**EUT set Condition: Charging + 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	0.1510	21.28	9.78	31.06	65.94	-34.88	QP	P
2	0.1510	6.17	9.78	15.95	55.94	-39.99	AVG	P
3	0.1980	7.13	9.75	16.88	53.69	-36.81	AVG	P
4	0.1990	17.57	9.75	27.32	63.65	-36.33	QP	P
5	0.6220	10.60	9.78	20.38	56.00	-35.62	QP	P
6	0.6230	2.59	9.78	12.37	46.00	-33.63	AVG	P
7	6.4520	4.75	9.99	14.74	60.00	-45.26	QP	P
8	6.4740	-7.19	9.99	2.80	50.00	-47.20	AVG	P
9	15.7810	12.86	10.43	23.29	60.00	-36.71	QP	P
10	15.7910	-3.77	10.43	6.66	50.00	-43.34	AVG	P

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

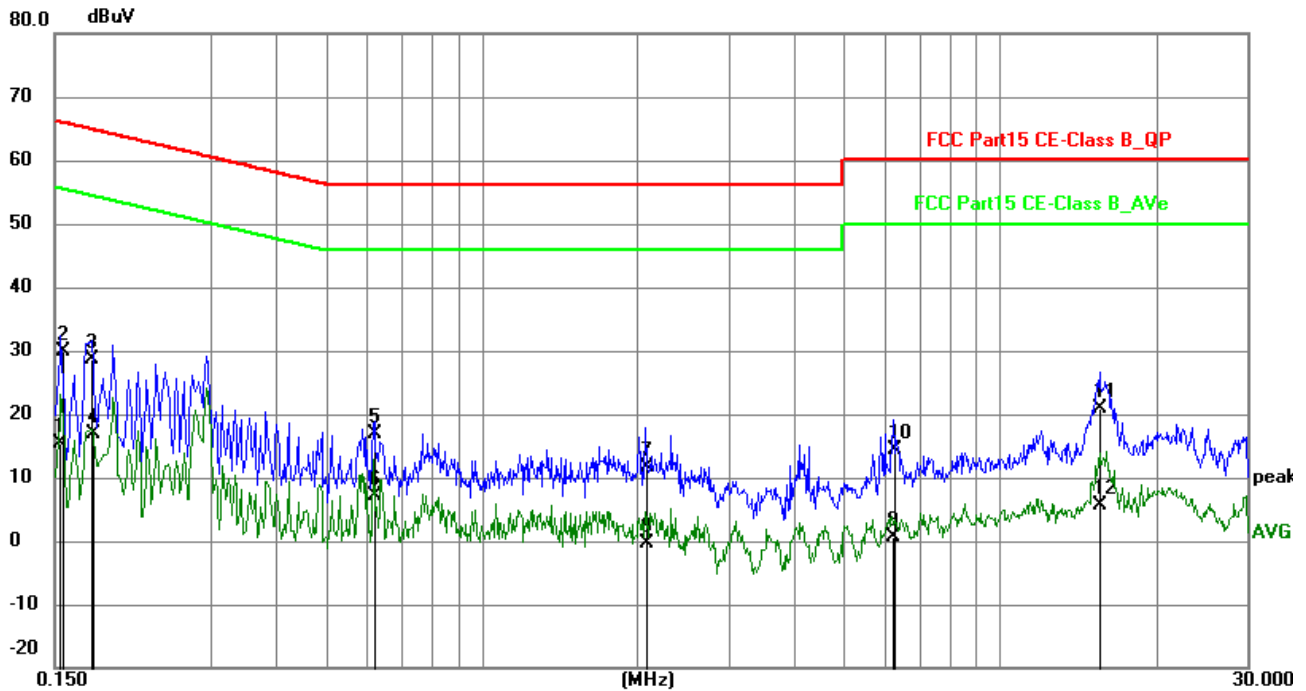
**EUT Operating Environment**

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

**EUT set Condition: Charging + 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	5.64	9.78	15.42	55.79	-40.37	AVG	P
2	0.1550	20.22	9.78	30.00	65.73	-35.73	QP	P
3	0.1760	18.74	9.77	28.51	64.67	-36.16	QP	P
4	0.1770	7.15	9.77	16.92	54.63	-37.71	AVG	P
5	0.6220	7.20	9.78	16.98	56.00	-39.02	QP	P
6	0.6220	-2.57	9.78	7.21	46.00	-38.79	AVG	P
7	2.0730	1.89	9.80	11.69	56.00	-44.31	QP	P
8	2.0750	-10.09	9.80	-0.29	46.00	-46.29	AVG	P
9	6.2150	-9.32	9.98	0.66	50.00	-49.34	AVG	P
10	6.2250	4.43	9.98	14.41	60.00	-45.59	QP	P
11	15.5960	10.43	10.42	20.85	60.00	-39.15	QP	P
12	15.6080	-4.79	10.42	5.63	50.00	-44.37	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:

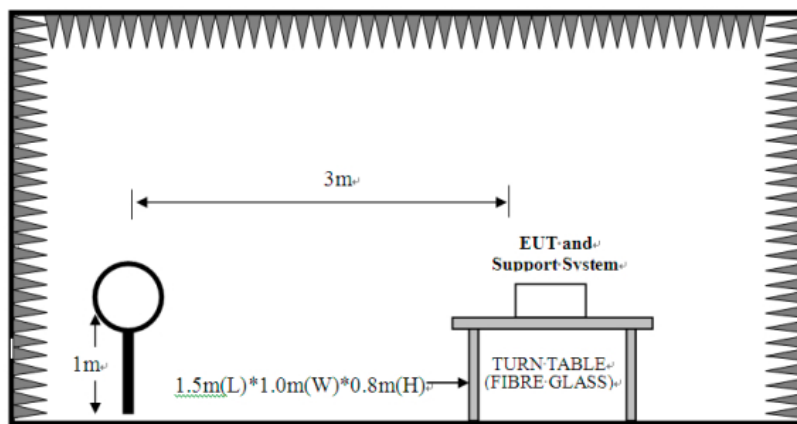
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

(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



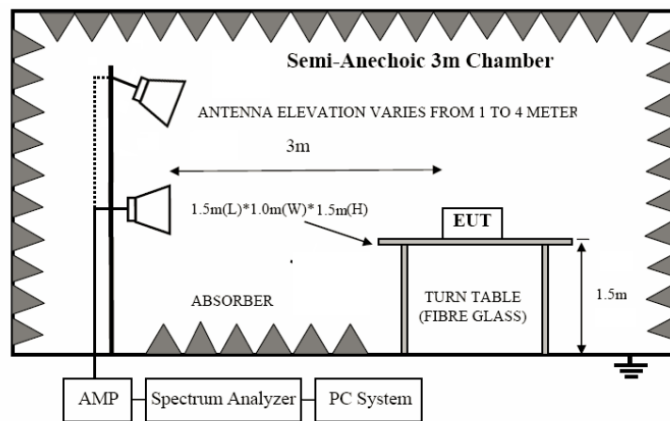
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For radiated emissions from 30MHz to 1GHz



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:

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

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
	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)
-------------	----	--------------	------------	-----	--------------	-----------

- 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	40.0
88-2 6	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 and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
  6. This is a portable 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.
  7. Battery fully charged was used during the test.

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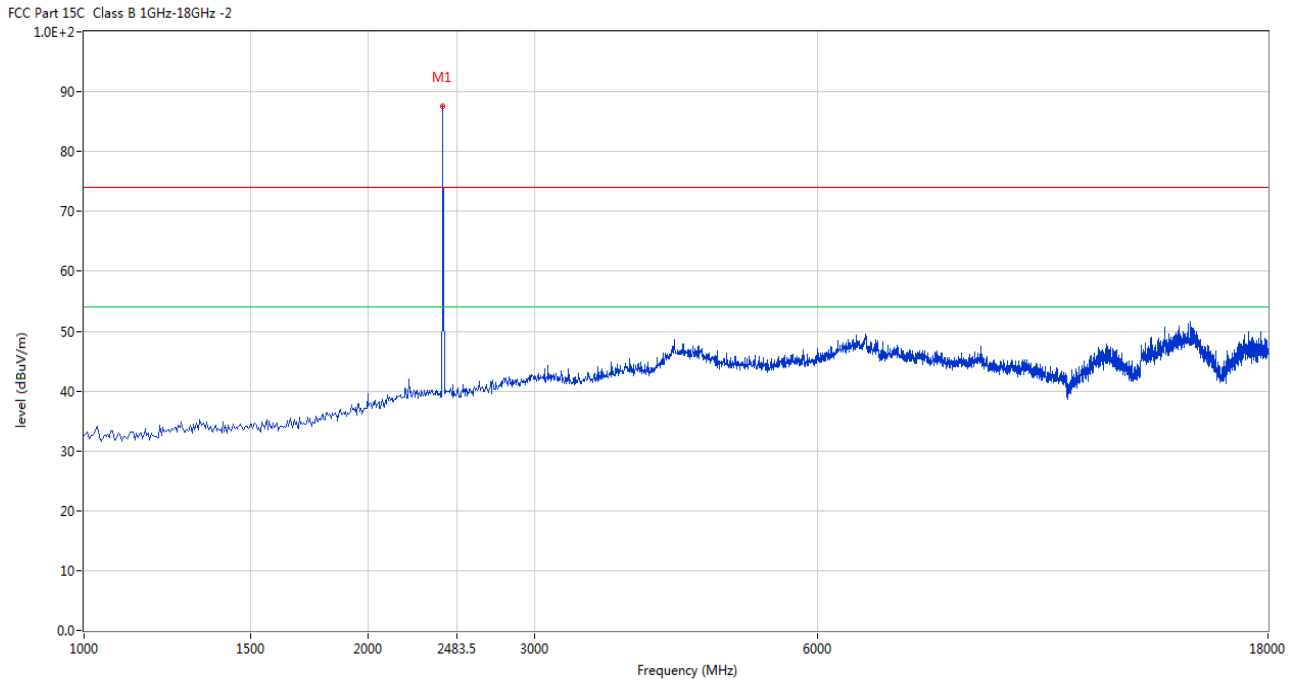
**6.5 Test result**

**A Fundamental & Harmonics Radiated Emission Data**

**Left earphone**

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

**Horizontal**



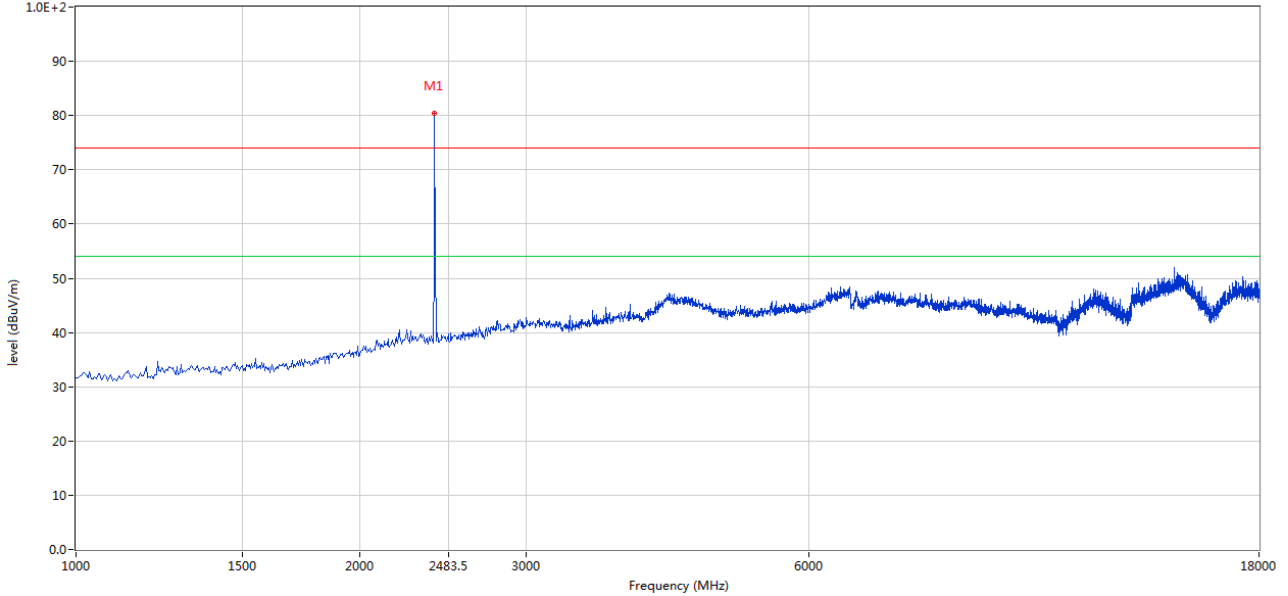
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	87.68	-3.57	114.0	-26.32	Peak	140.00	100	Horizontal	Pass

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**Vertical**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	80.23	-3.57	114.0	-33.77	Peak	141.00	100	Vertical	Pass

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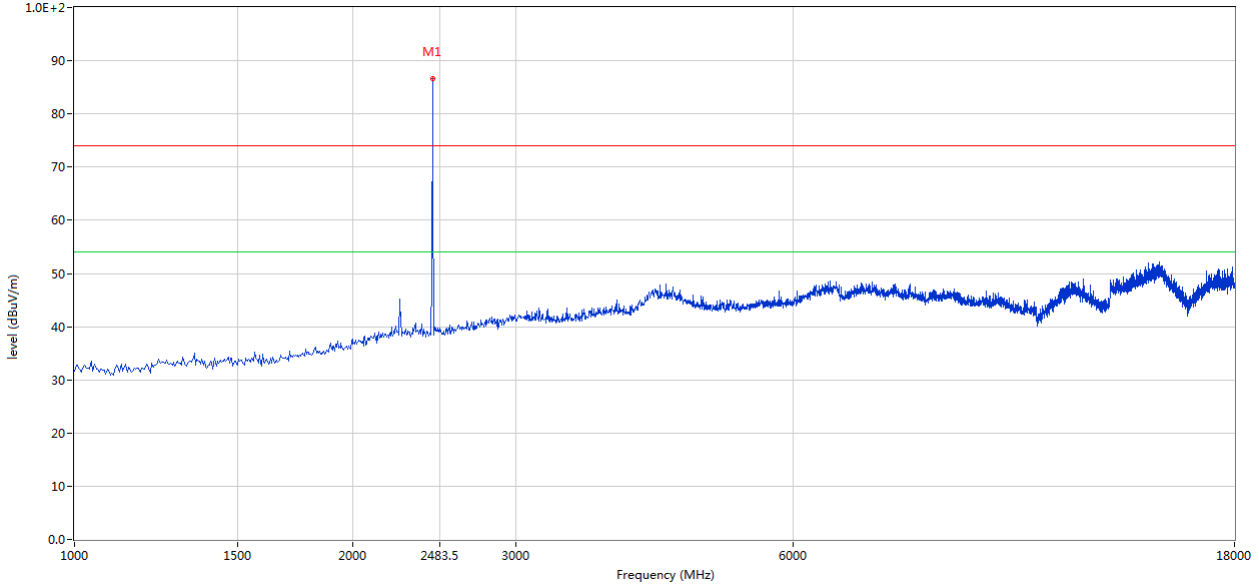




Please refer to the following test plots for details: Middle Channel-2441MHz

**Horizontal**

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



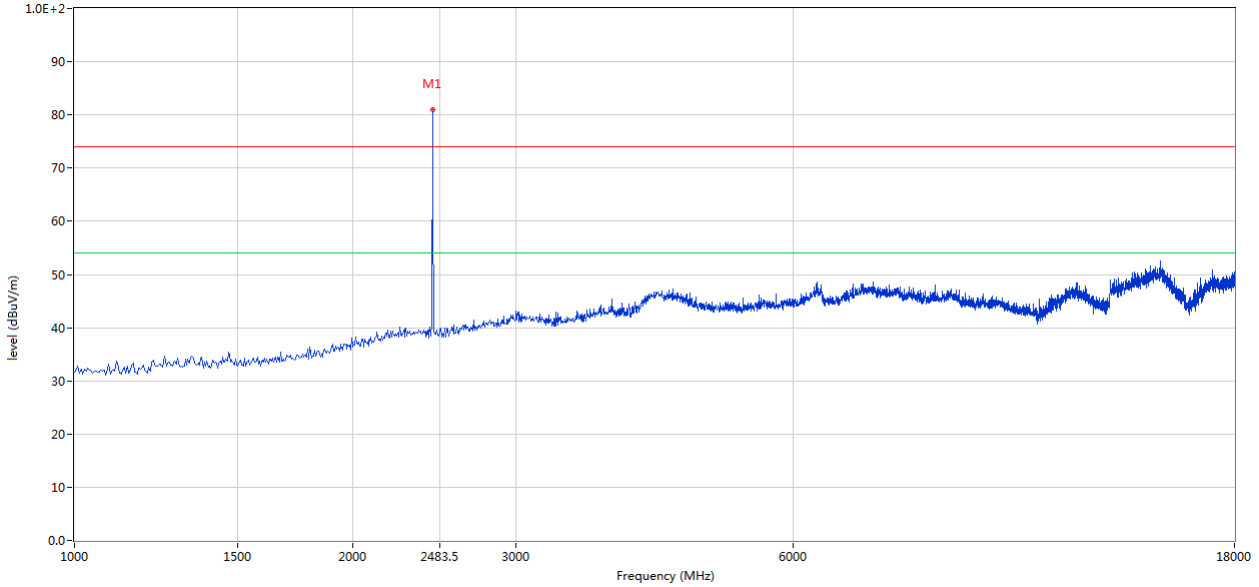
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	86.66	-3.57	114.0	-27.34	Peak	162.00	100	Horizontal	Pass

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**Vertical**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	80.94	-3.57	114.0	-33.06	Peak	52.00	100	Vertical	Pass

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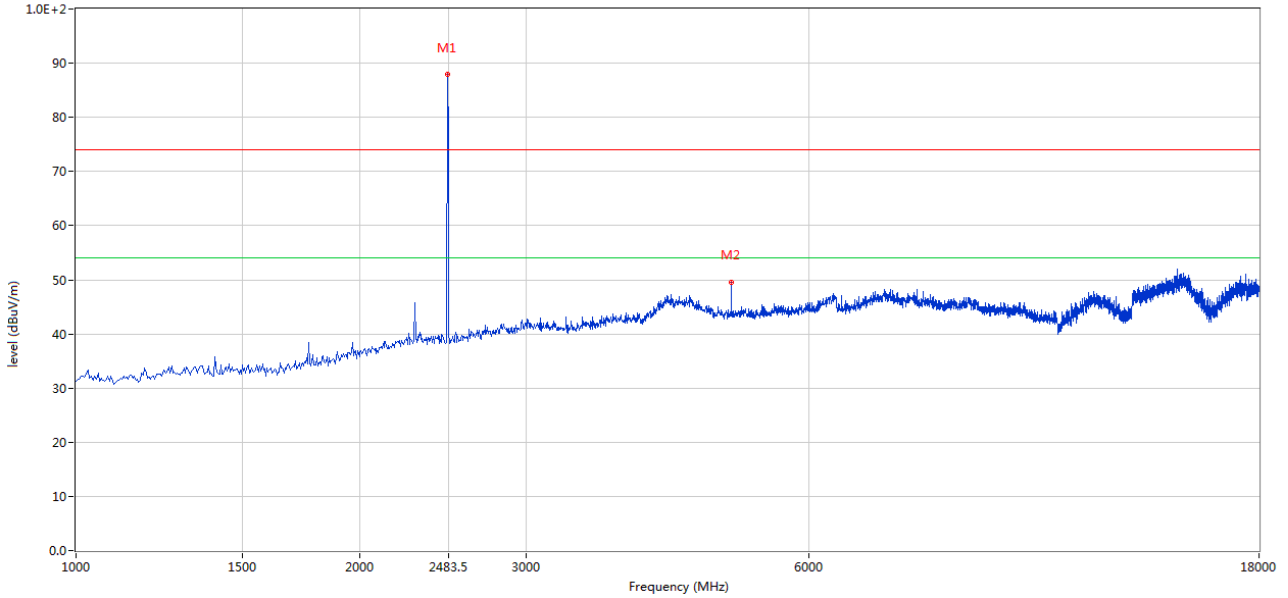
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Please refer to the following test plots for details: High Channel-2480MHz

**Horizontal**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	88.78	-3.57	114.0	-25.22	Peak	207.00	100	Horizontal	Pass
2	4960.010	49.52	3.36	74.0	-24.48	Peak	142.00	100	Horizontal	Pass

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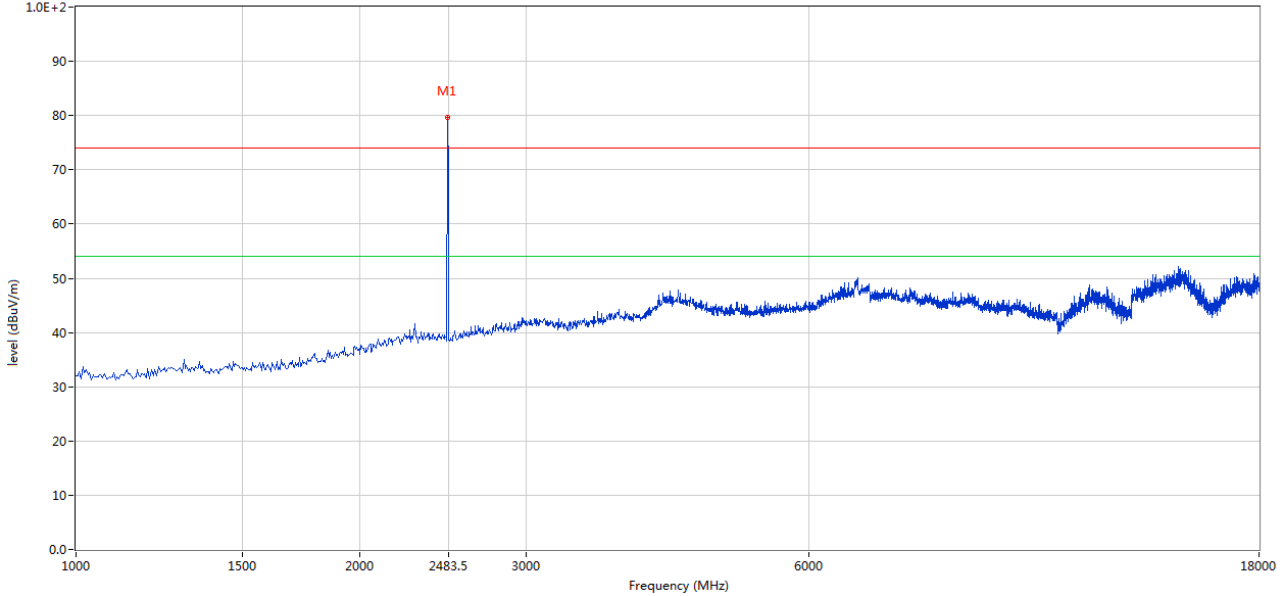
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**Vertical**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	79.73	-3.57	114.0	-34.27	Peak	160.00	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.

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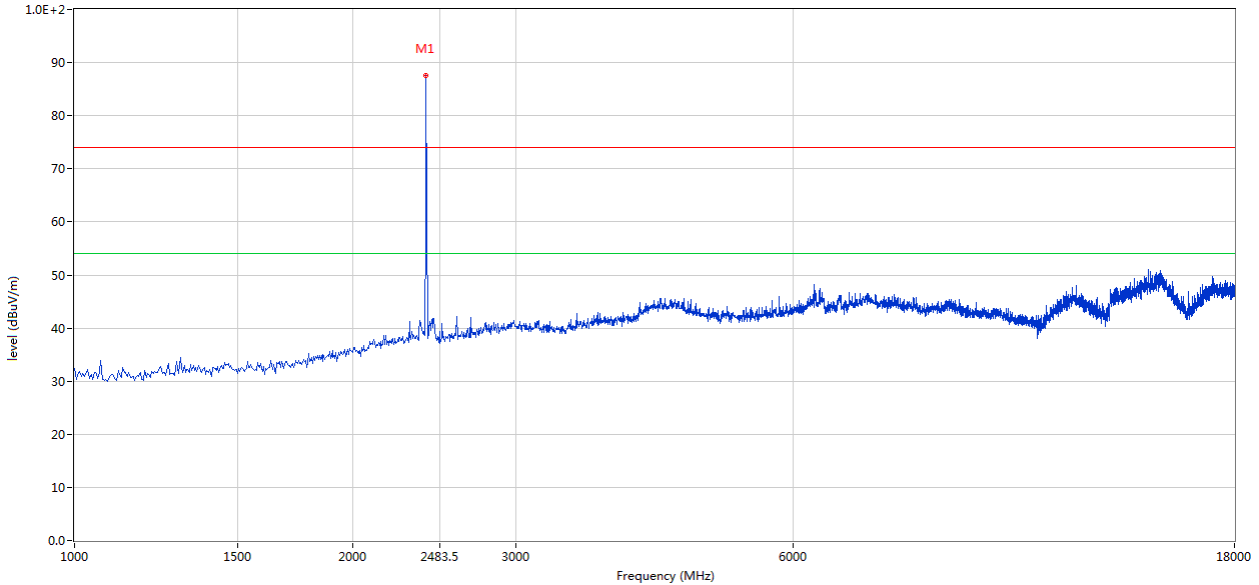


**Right earphone**

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

**Horizontal**

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



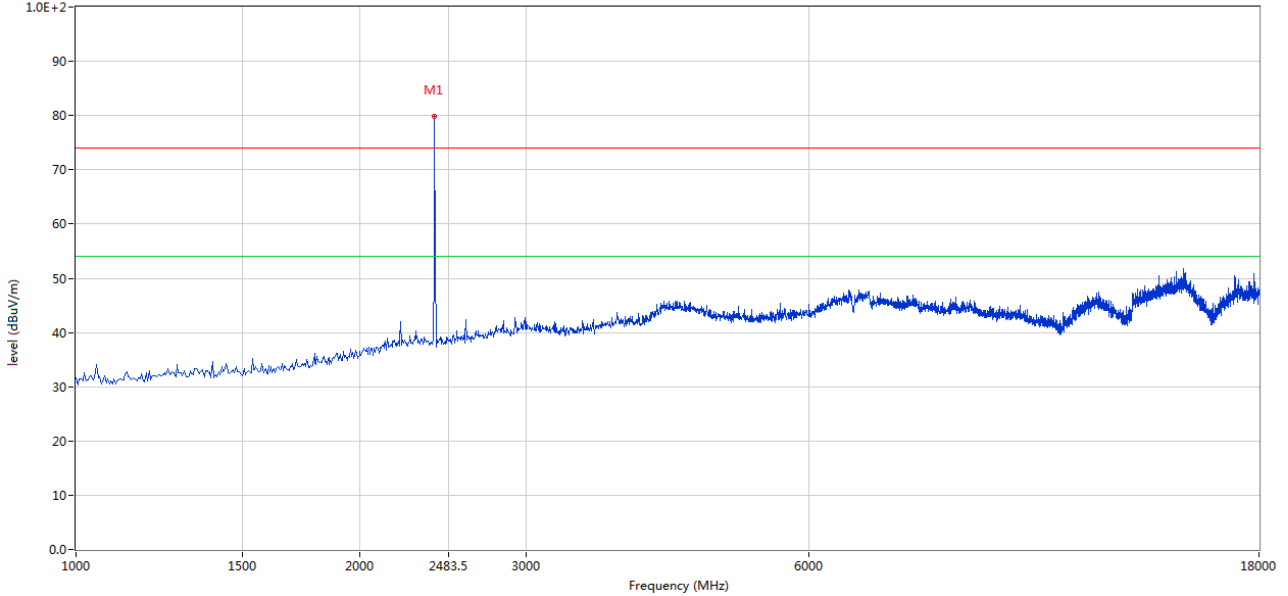
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	87.70	-3.57	114.0	-26.30	Peak	292.00	100	Horizontal	Pass

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**Vertical**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	79.88	-3.57	114.0	-34.12	Peak	198.00	100	Vertical	Pass

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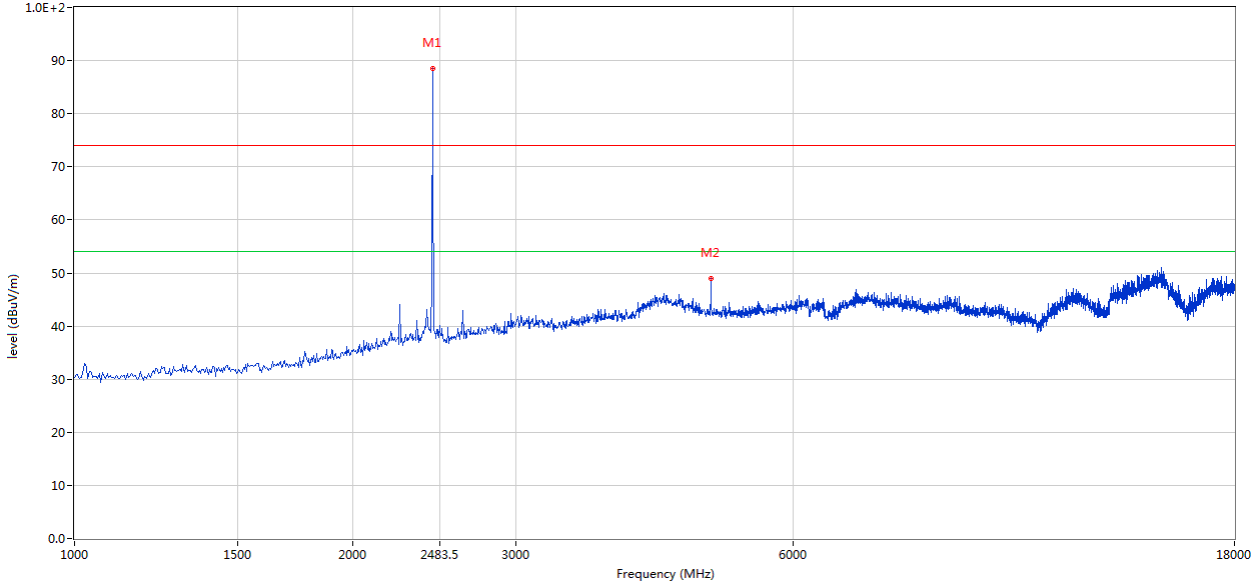
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Please refer to the following test plots for details: Middle Channel-2441MHz

**Horizontal**

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



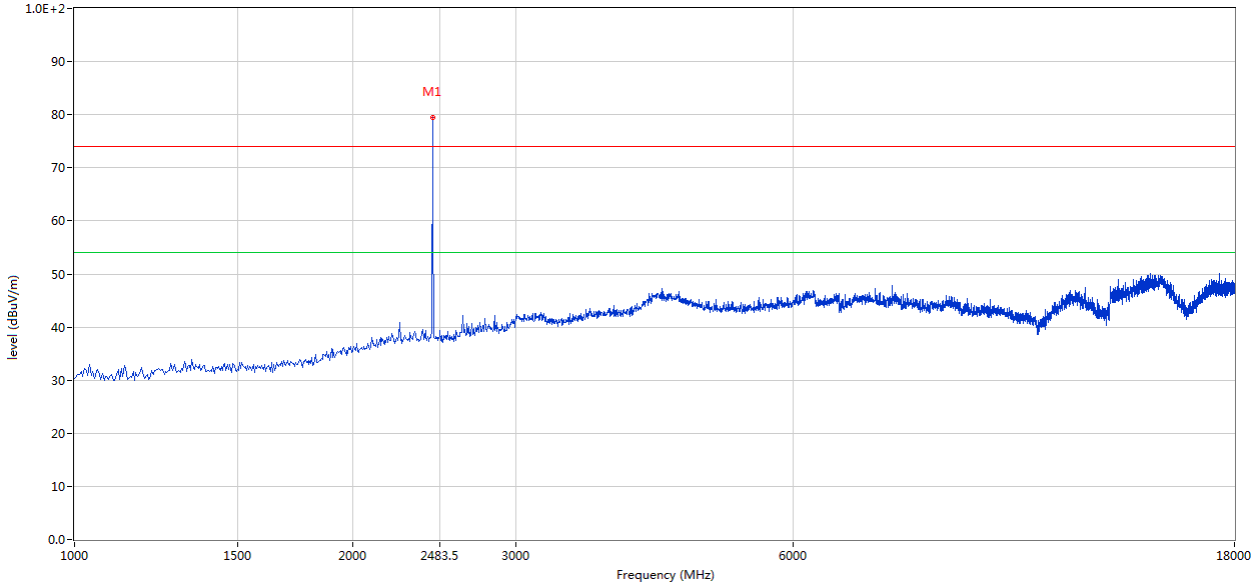
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	87.43	-3.57	114.0	-26.57	Peak	312.00	100	Horizontal	Pass
2	4883.529	48.90	3.20	74.0	-25.10	Peak	307.00	100	Horizontal	Pass

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**Vertical**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	79.55	-3.57	114.0	-34.45	Peak	57.00	100	Vertical	Pass

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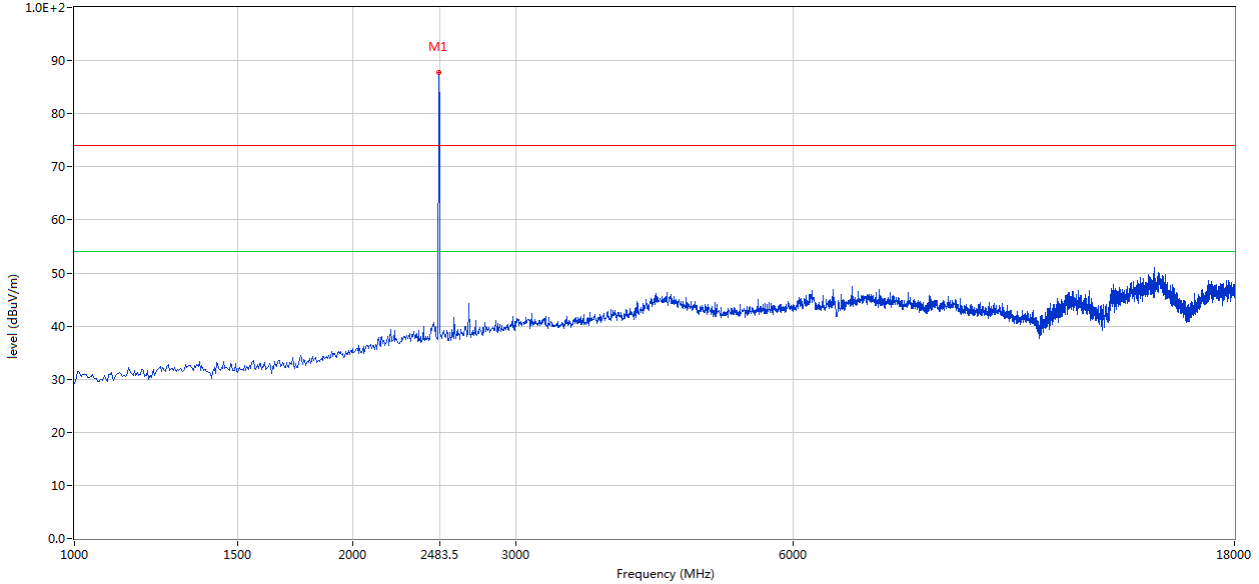




Please refer to the following test plots for details: High Channel-2480MHz

**Horizontal**

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



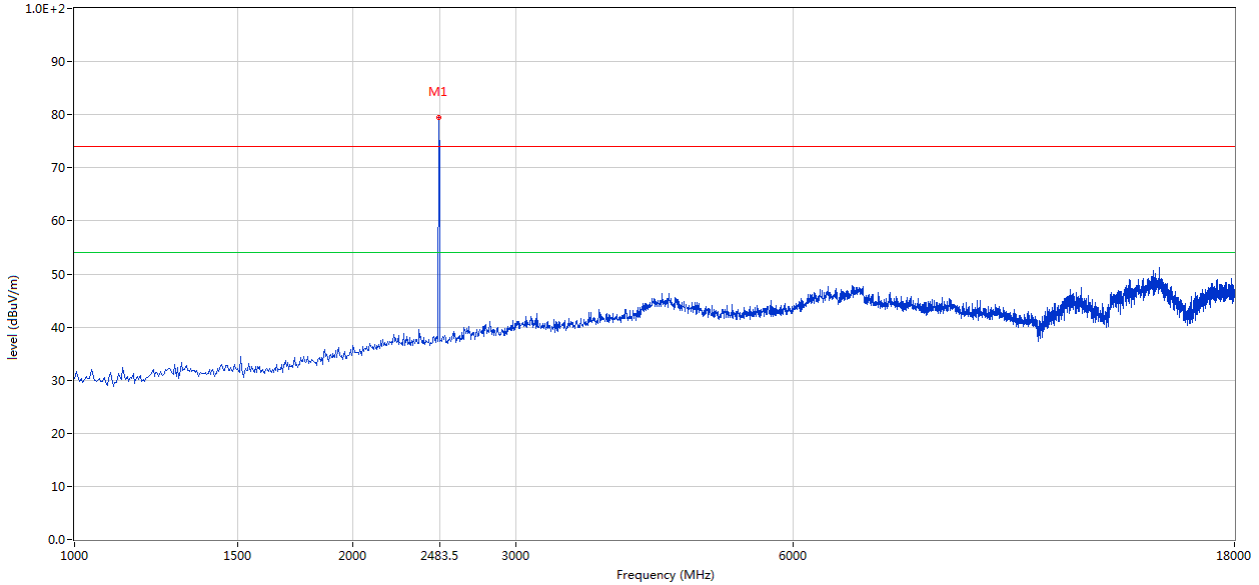
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	87.73	-3.57	114.0	-26.27	Peak	86.00	100	Horizontal	Pass

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**Vertical**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	79.51	-3.57	114.0	-34.49	Peak	317.00	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.

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**B. General Radiated Emission Data**

**Left earphone**

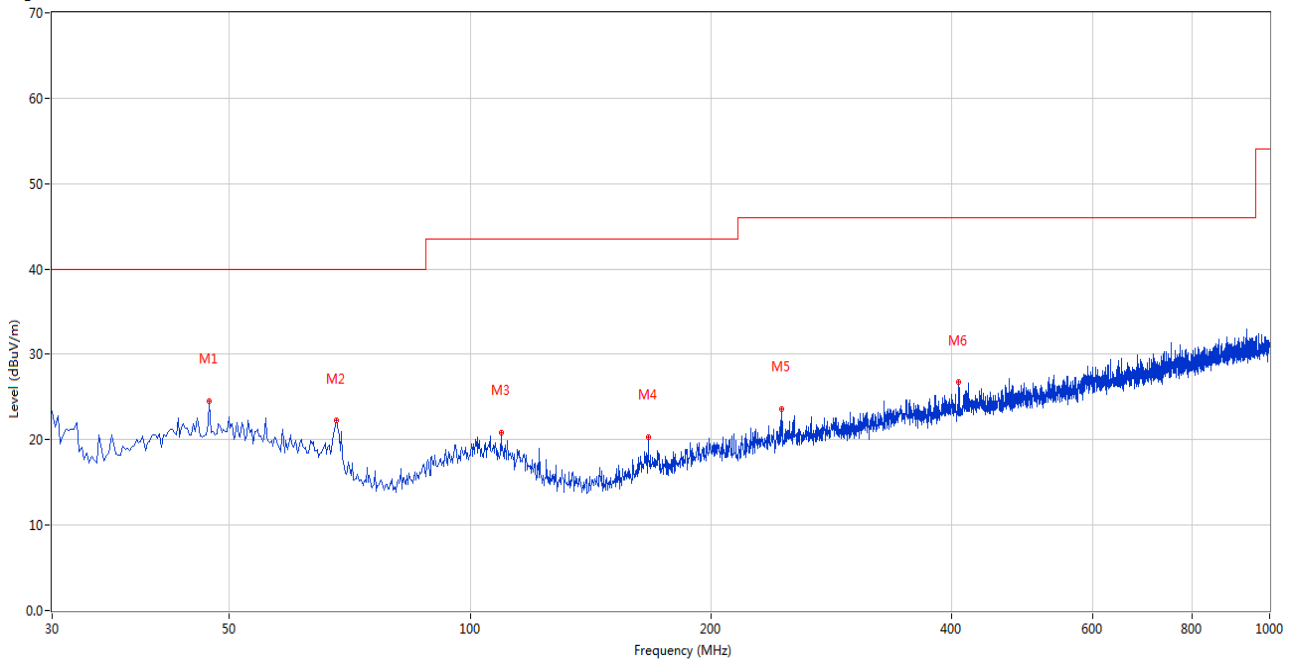
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	47.213	24.53	-11.41	40.0	15.47	Peak	175.00	100	Horizontal	Pass
2	68.063	22.22	-14.68	40.0	17.78	Peak	282.00	100	Horizontal	Pass
3	109.278	20.86	-13.56	43.5	22.64	Peak	237.00	100	Horizontal	Pass
4	166.978	20.34	-16.08	43.5	23.16	Peak	70.00	100	Horizontal	Pass
5	245.529	23.59	-12.21	46.0	22.41	Peak	32.00	100	Horizontal	Pass
6	408.690	26.70	-8.35	46.0	19.30	Peak	267.00	100	Horizontal	Pass

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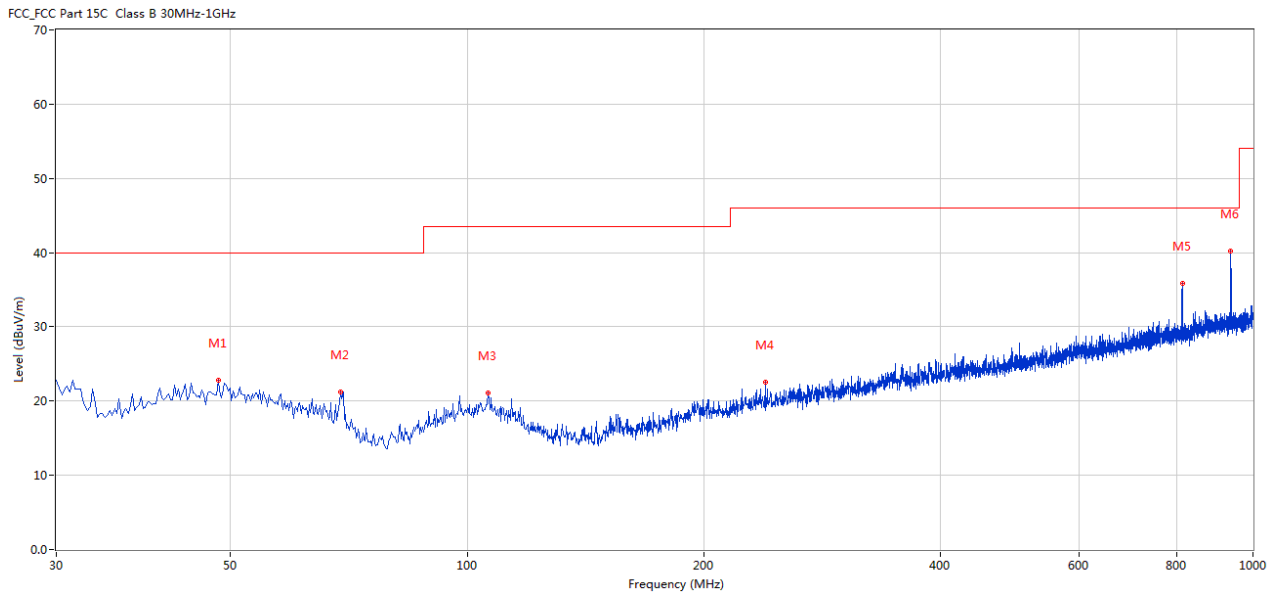


**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	48.183	22.83	-11.26	40.0	17.17	Peak	252.00	100	Vertical	Pass
2	69.033	21.24	-15.24	40.0	18.76	Peak	305.00	100	Vertical	Pass
3	106.368	21.14	-13.34	43.5	22.36	Peak	61.00	100	Vertical	Pass
4	239.710	22.52	-12.33	46.0	23.48	Peak	31.00	100	Vertical	Pass
5	812.594	35.88	-2.94	46.0	10.12	Peak	49.00	100	Vertical	Pass
6	937.451	40.26	-1.78	46.0	5.74	Peak	15.00	100	Vertical	Pass

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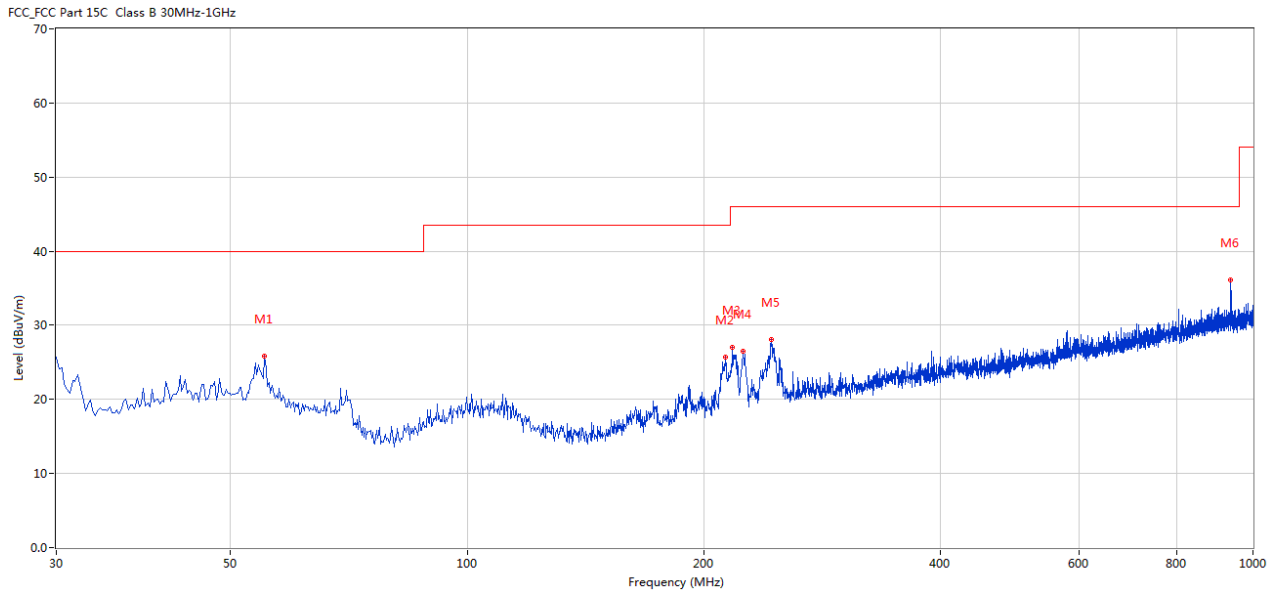
**Right earphone**

**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)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	55.214	25.84	-11.83	40.0	14.16	Peak	328.00	100	Horizontal	Pass
2	213.284	25.73	-13.64	43.5	17.77	Peak	154.00	100	Horizontal	Pass
3	217.648	27.03	-13.45	46.0	18.97	Peak	177.00	100	Horizontal	Pass
4	224.679	26.51	-12.96	46.0	19.49	Peak	324.00	100	Horizontal	Pass
5	243.832	28.03	-12.23	46.0	17.97	Peak	336.00	100	Horizontal	Pass
6	937.451	36.17	-1.78	46.0	9.83	Peak	78.00	100	Horizontal	Pass

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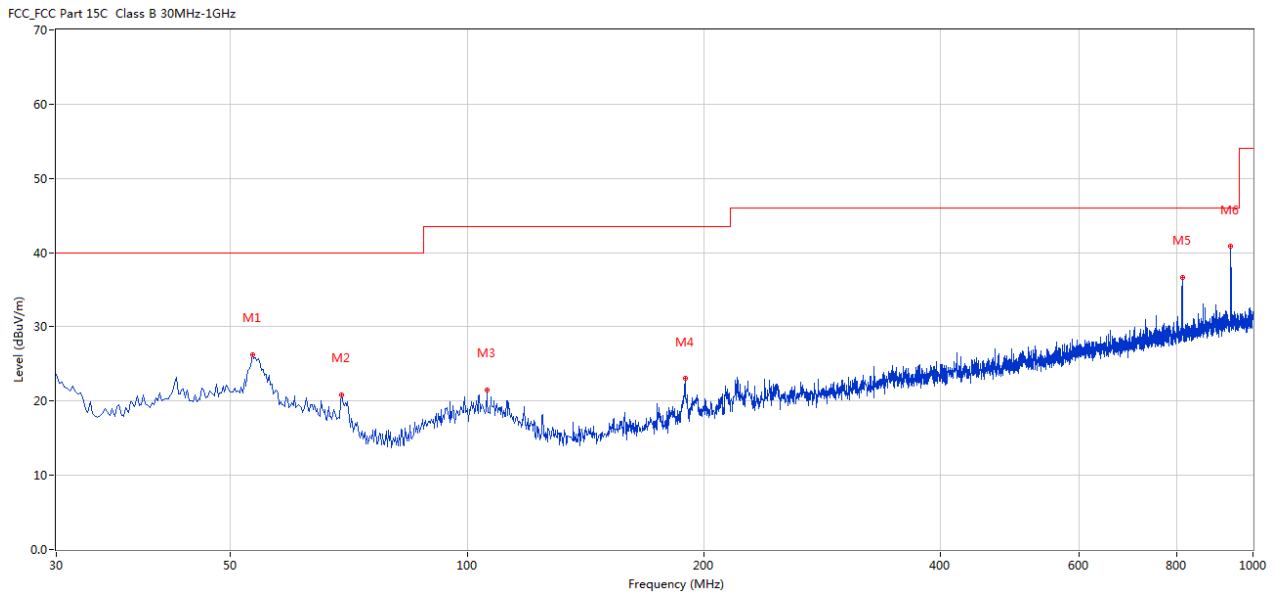


**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	53.274	26.21	-11.51	40.0	13.79	Peak	47.00	100	Vertical	Pass
2	69.275	20.78	-15.38	40.0	19.22	Peak	331.00	100	Vertical	Pass
3	105.884	21.44	-13.29	43.5	22.06	Peak	115.00	100	Vertical	Pass
4	189.283	23.00	-14.33	43.5	20.50	Peak	163.00	100	Vertical	Pass
5	812.594	36.65	-2.94	46.0	9.35	Peak	350.00	100	Vertical	Pass
6	937.451	40.81	-1.78	46.0	5.19	Peak	33.00	100	Vertical	Pass

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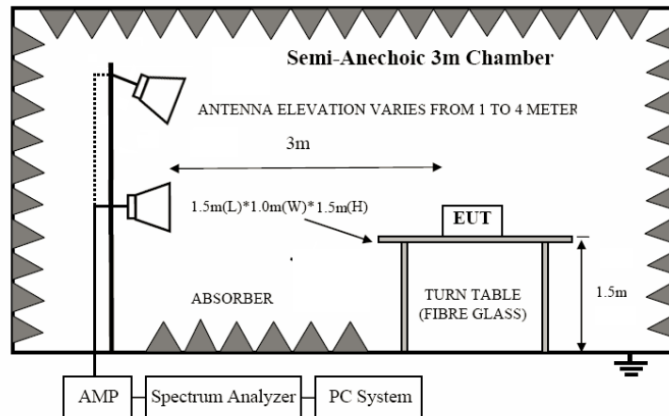


## 7. Band Edge

### 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.

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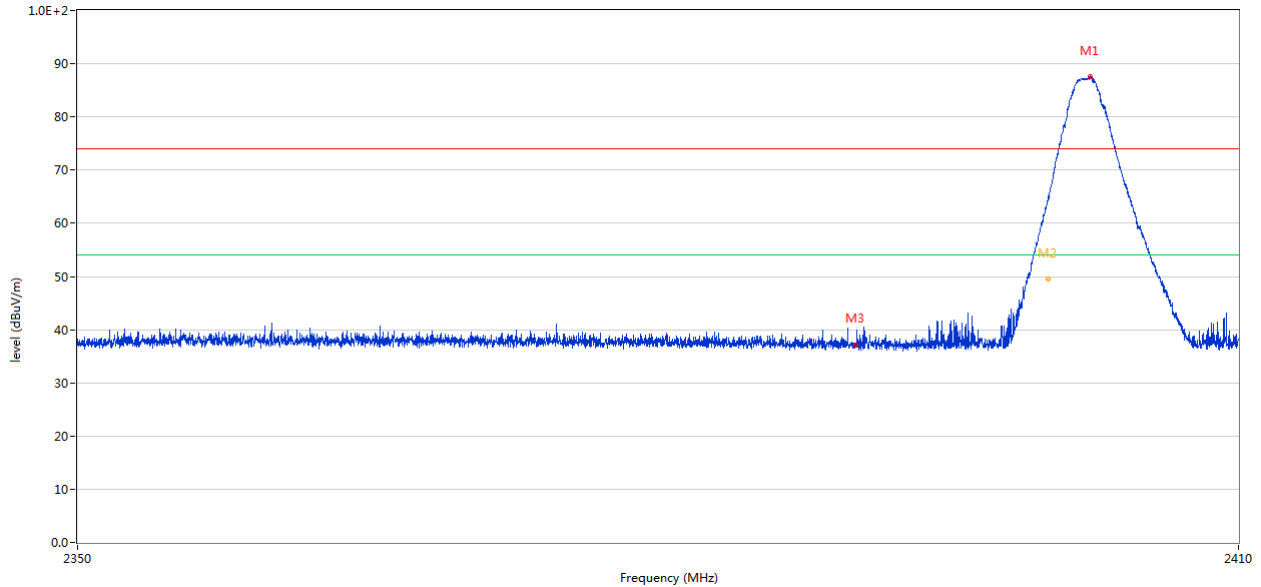


**7.6 Test Result**

**Left earphone**

Product:	Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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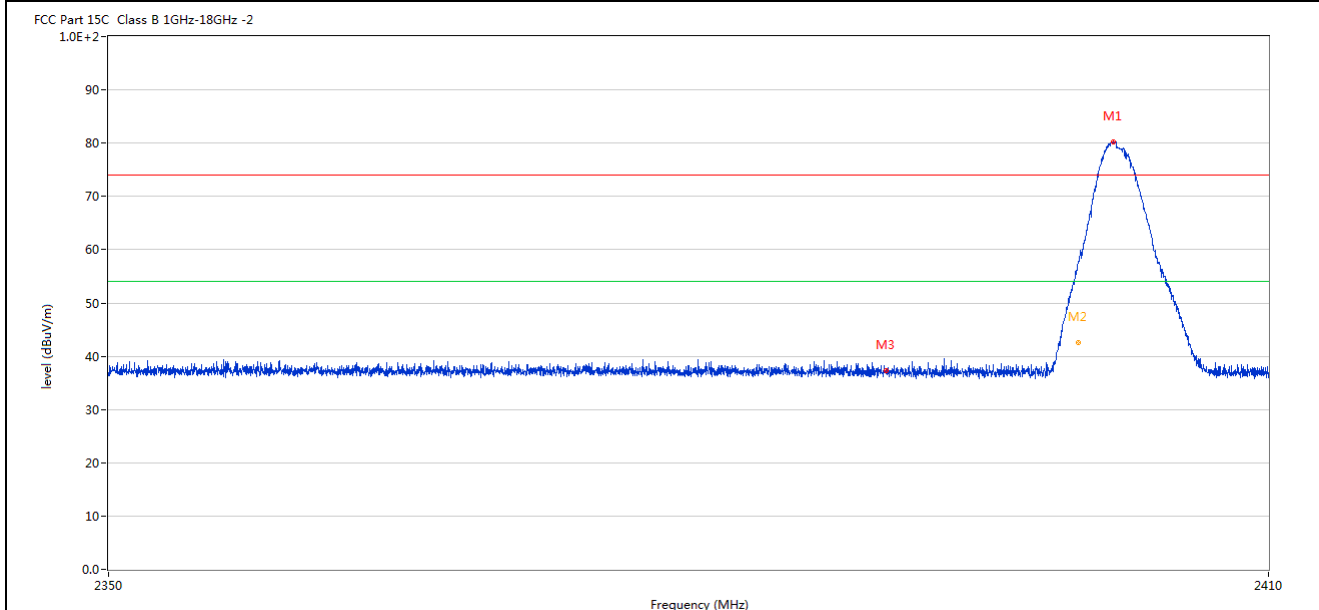
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.247	87.56	-3.57	74.0	13.56	Peak	139.00	100	Horizontal	N/A
2	2400.042	64.64	-3.57	74.0	-9.36	Peak	145.00	100	Horizontal	Pass
2**	2400.042	49.60	-3.57	54.0	-4.40	AV	145.00	100	Horizontal	Pass
3	2390.040	37.01	-3.53	74.0	-36.99	Peak	154.00	100	Horizontal	Pass

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Product:	Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

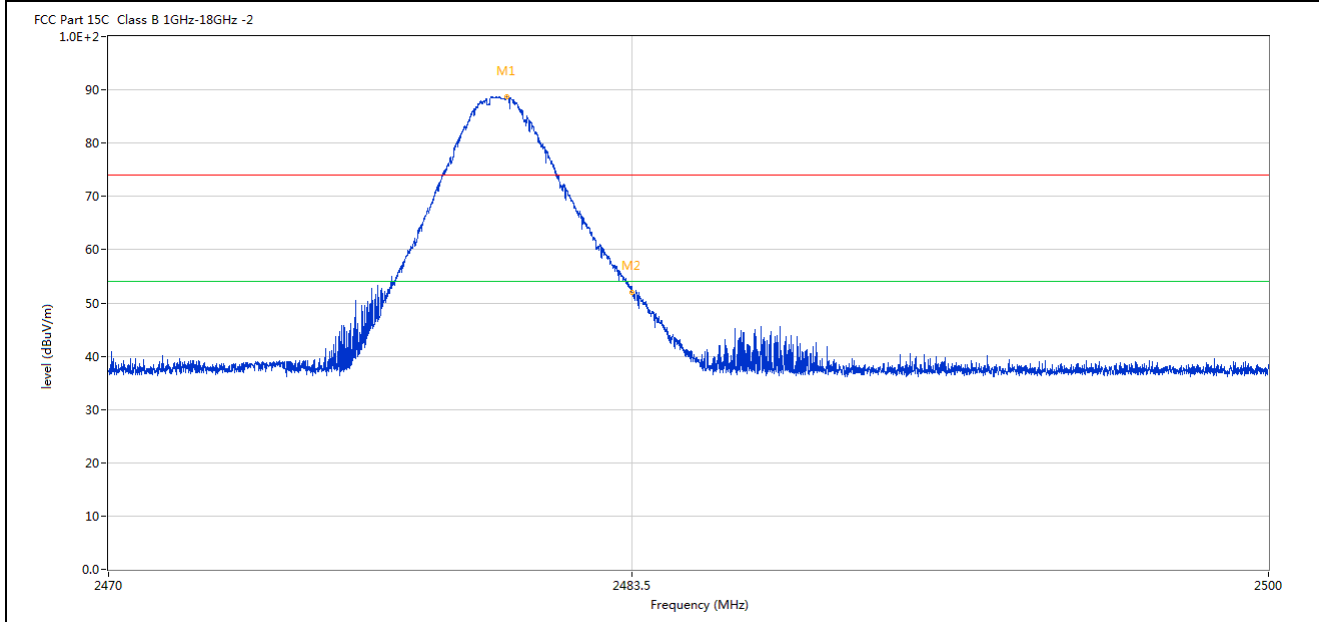


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.887	80.21	-3.57	74.0	6.21	Peak	145.00	100	Vertical	N/A
2	2400.072	57.72	-3.57	74.0	-16.28	Peak	145.00	100	Vertical	Pass
2**	2400.072	42.63	-3.57	54.0	-11.37	AV	145.00	100	Vertical	Pass
3	2390.055	37.23	-3.53	74.0	-36.77	Peak	154.00	100	Vertical	Pass

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Product:	Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

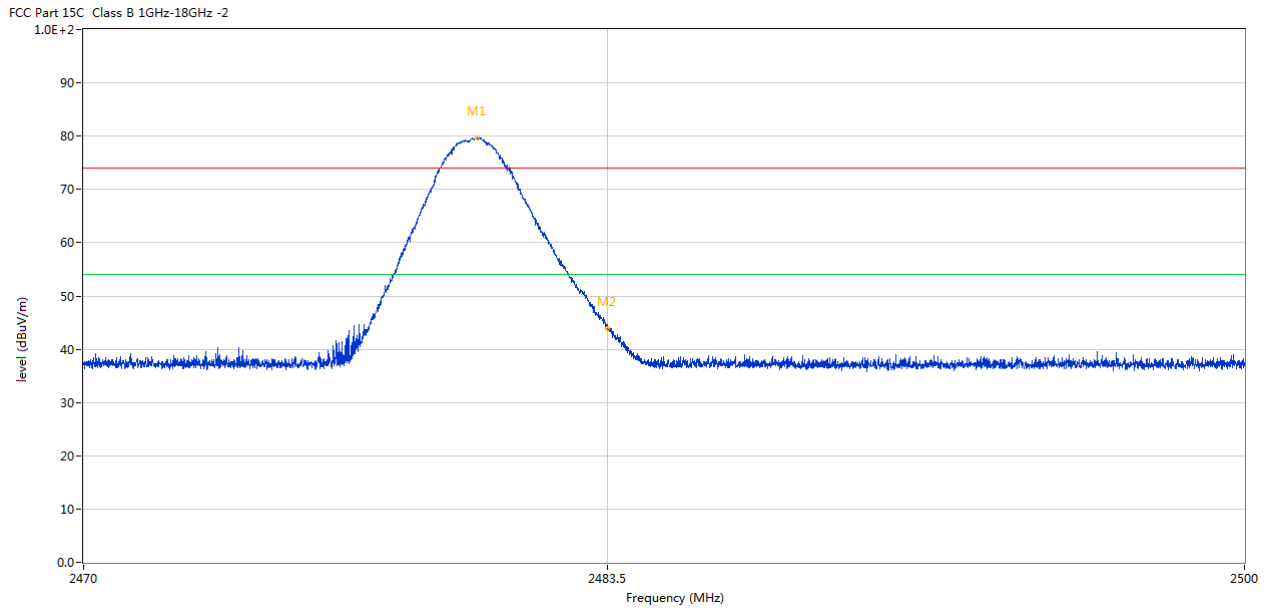


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.265	88.66	-3.57	74.0	14.66	Peak	141.00	100	Horizontal	N/A
2	2483.500	51.98	-3.57	74.0	-22.02	Peak	142.43	100	Horizontal	Pass

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Product:	Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
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	2480.130	79.67	-3.57	74.0	5.67	Peak	183.00	100	Vertical	N/A
2	2483.500	43.93	-3.57	74.0	-30.07	Peak	140.86	100	Vertical	Pass

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

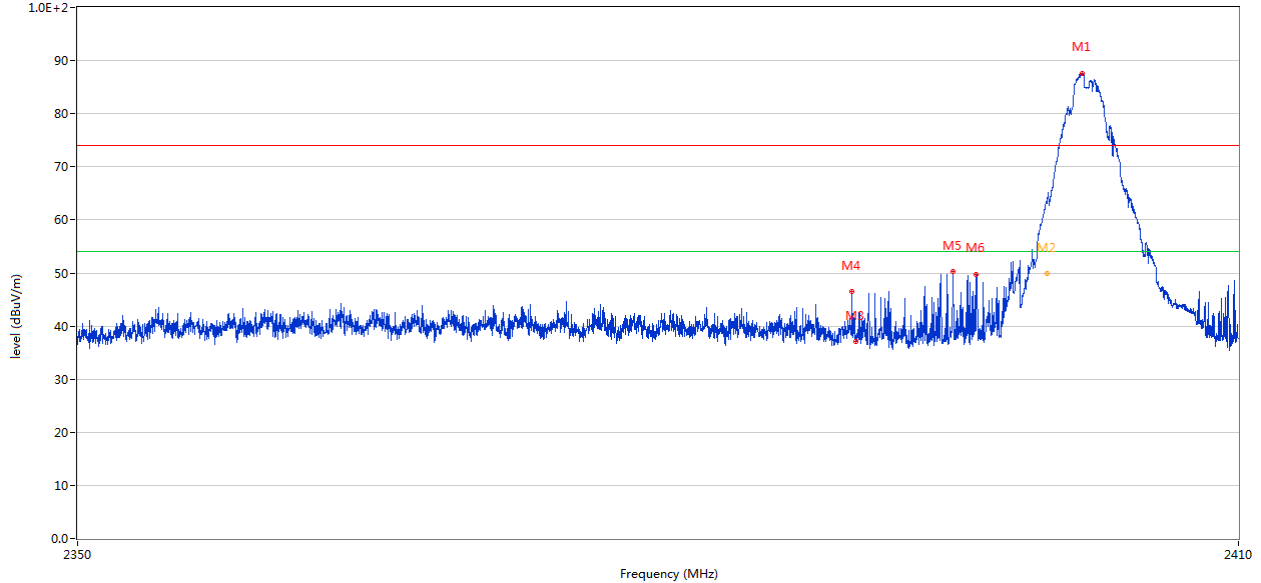
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**Right earphone**

Product:	Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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 1.0E+2



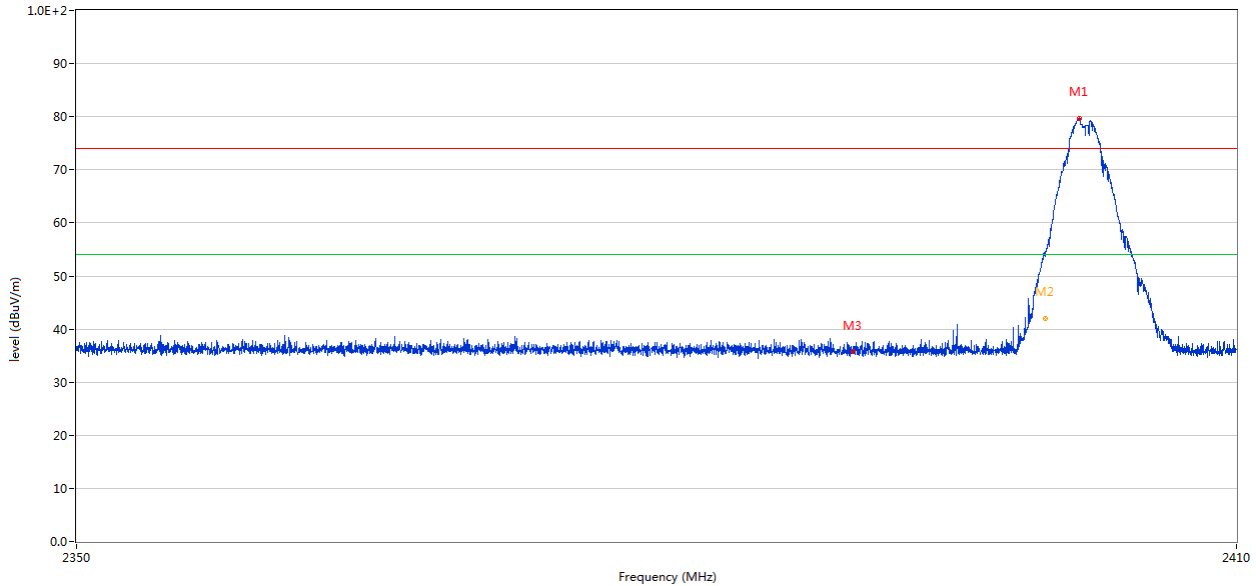
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.812	87.65	-3.57	74.0	13.65	Peak	93.00	100	Horizontal	N/A
2	2400.012	62.10	-3.57	74.0	-11.90	Peak	93.00	100	Horizontal	Pass
2**	2400.012	49.94	-3.57	54.0	-4.06	AV	93.00	100	Horizontal	Pass
3	2390.040	37.02	-3.53	74.0	-36.98	Peak	119.00	100	Horizontal	Pass
4	2389.875	46.43	-3.53	74.0	-27.57	Peak	88.00	100	Horizontal	Pass
5	2395.499	50.41	-3.55	74.0	-23.59	Peak	88.00	100	Horizontal	Pass
6	2396.278	49.68	-3.55	74.0	-24.32	Peak	134.00	100	Horizontal	Pass

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Product:	Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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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	2401.797	79.62	-3.57	74.0	5.62	Peak	303.00	100	Vertical	N/A
2	2400.000	54.07	-3.57	74.0	-19.93	Peak	314.00	100	Vertical	Pass
2**	2400.000	42.03	-3.57	54.0	-11.97	AV	314.00	100	Vertical	Pass
3	2390.000	35.57	-3.53	74.0	-38.43	Peak	346.67	100	Vertical	Pass

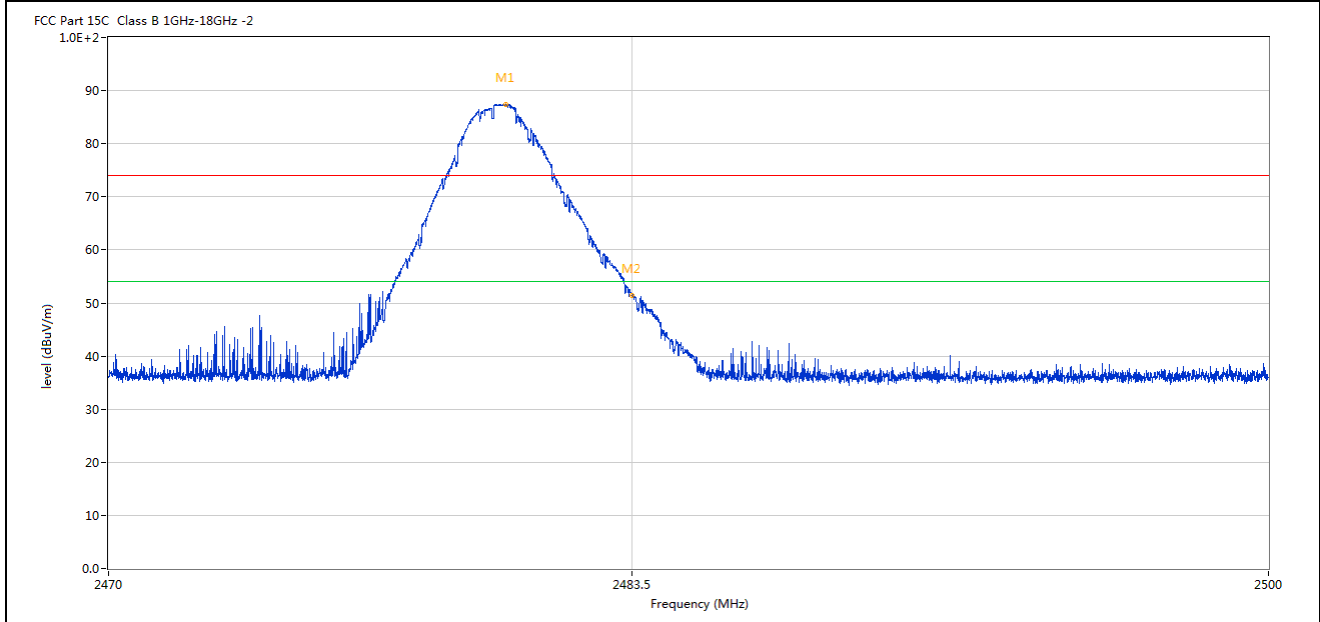
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Product:	Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

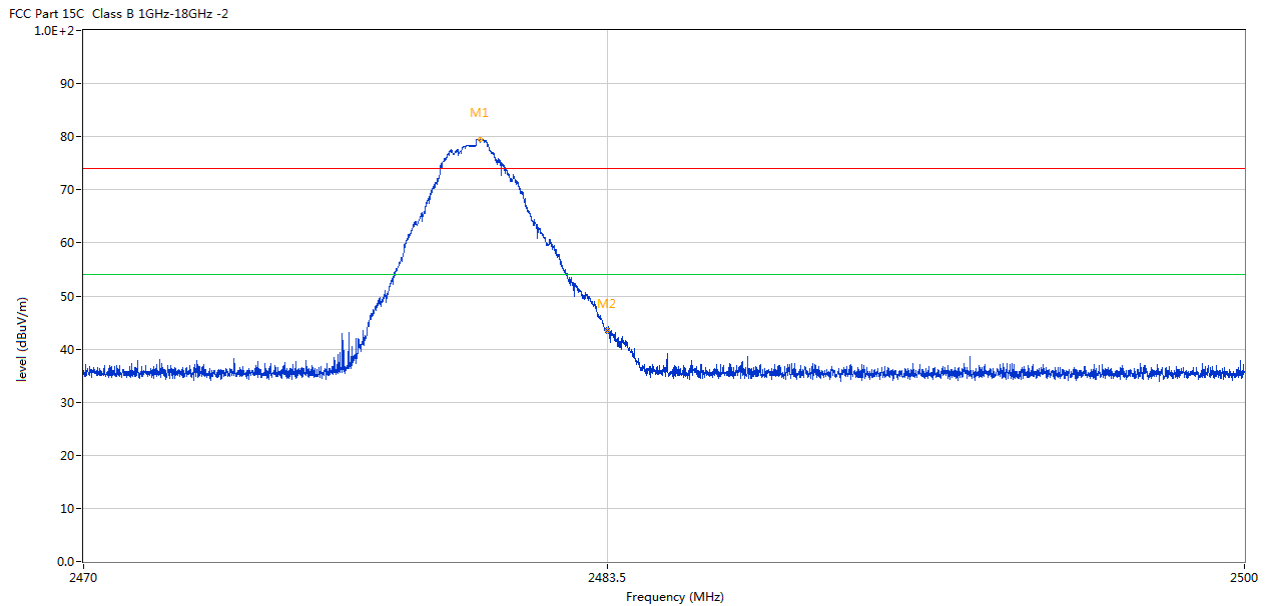


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.242	87.42	-3.57	74.0	13.42	Peak	46.00	100	Horizontal	N/A
2	2483.500	51.32	-3.57	74.0	-22.68	Peak	46.00	100	Horizontal	Pass

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Product:	Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
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	2480.220	79.50	-3.57	74.0	5.50	Peak	314.00	100	Vertical	N/A
2	2483.500	43.54	-3.57	74.0	-30.46	Peak	324.00	100	Vertical	Pass

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

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## 8.0 Antenna Requirement

### Applicable Standard

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

This product has a PCB antenna. The antenna gain is 1.6dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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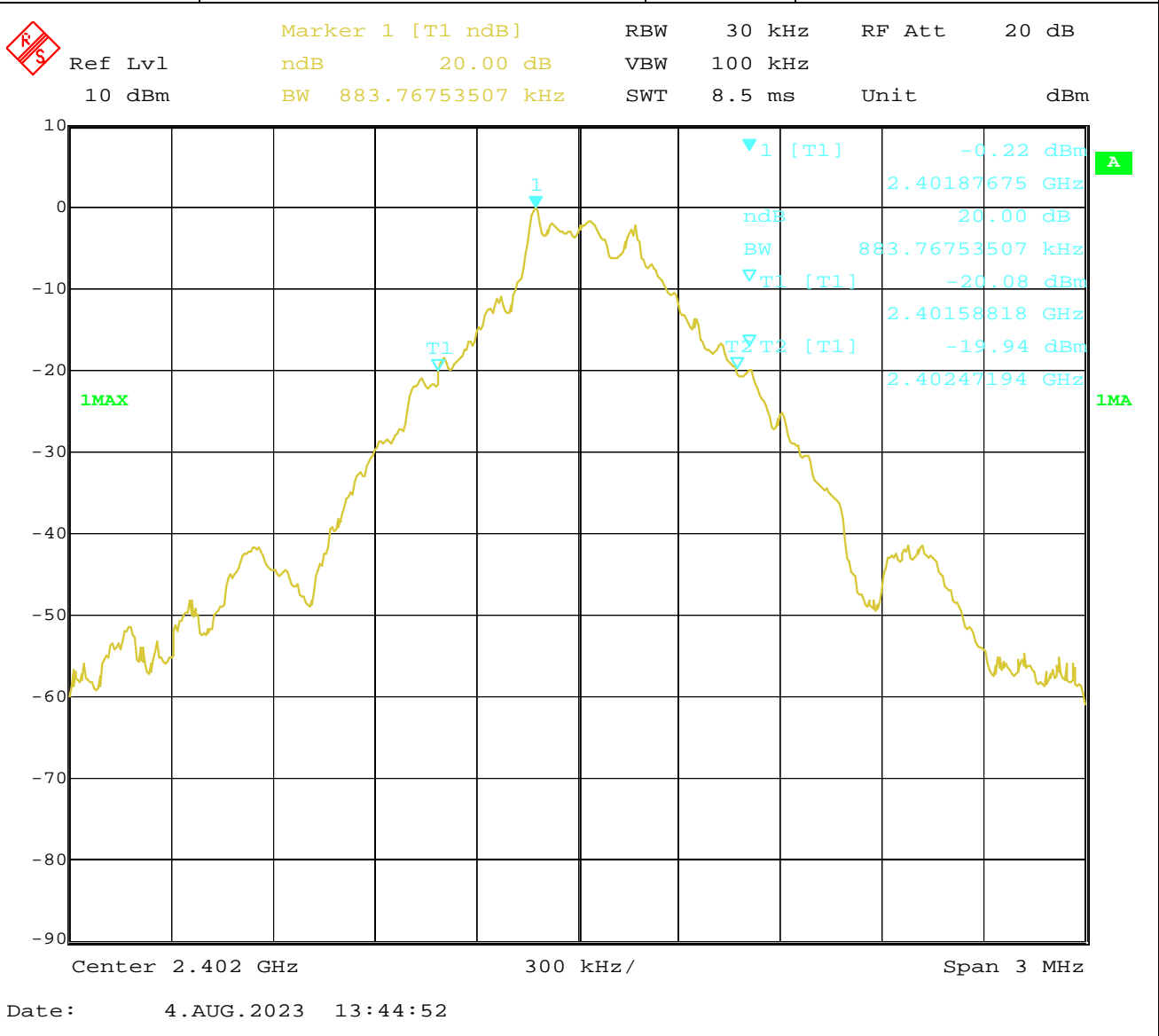




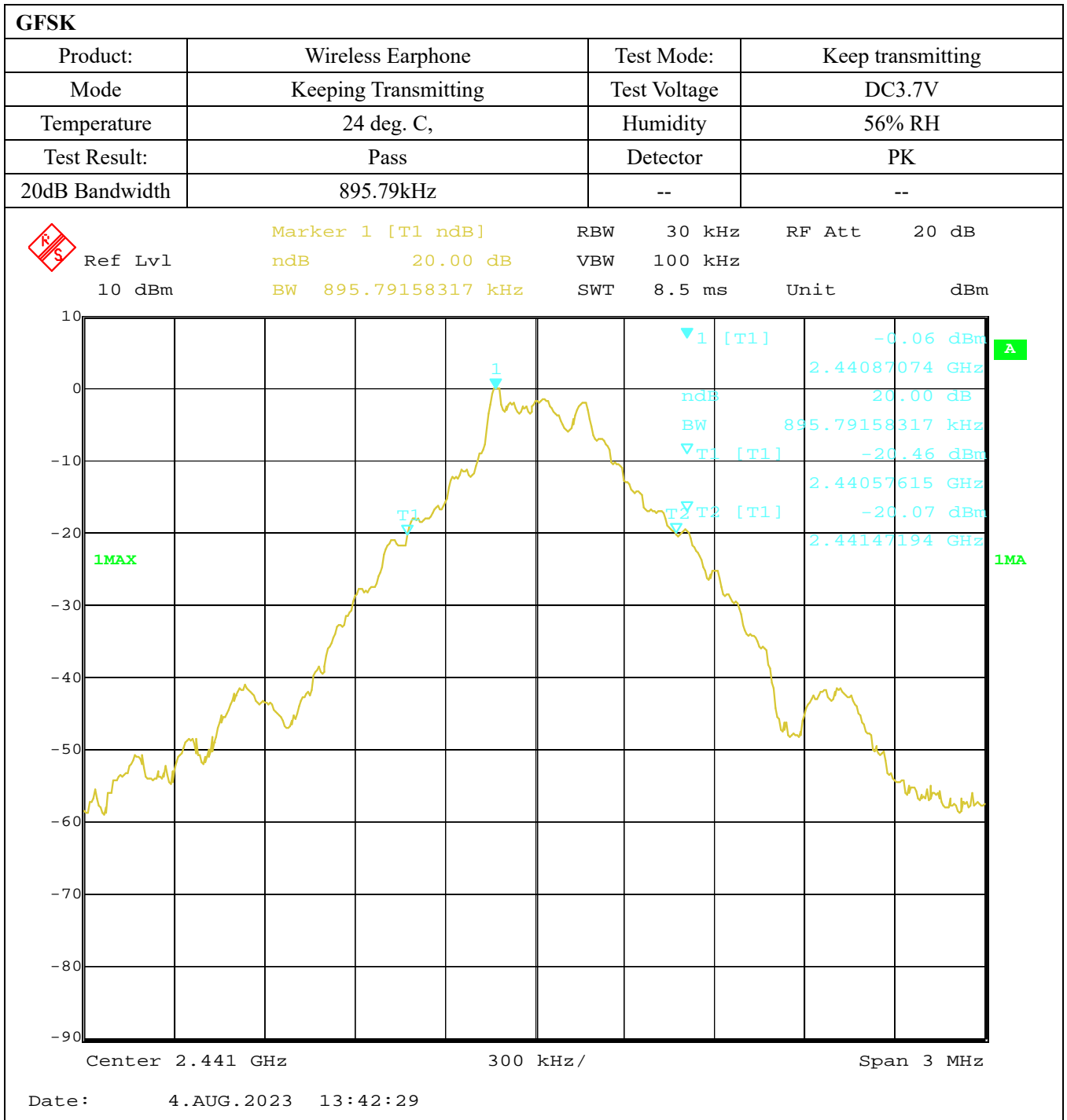
**9.0 20dB Bandwidth Measurement**

**Left earphone**

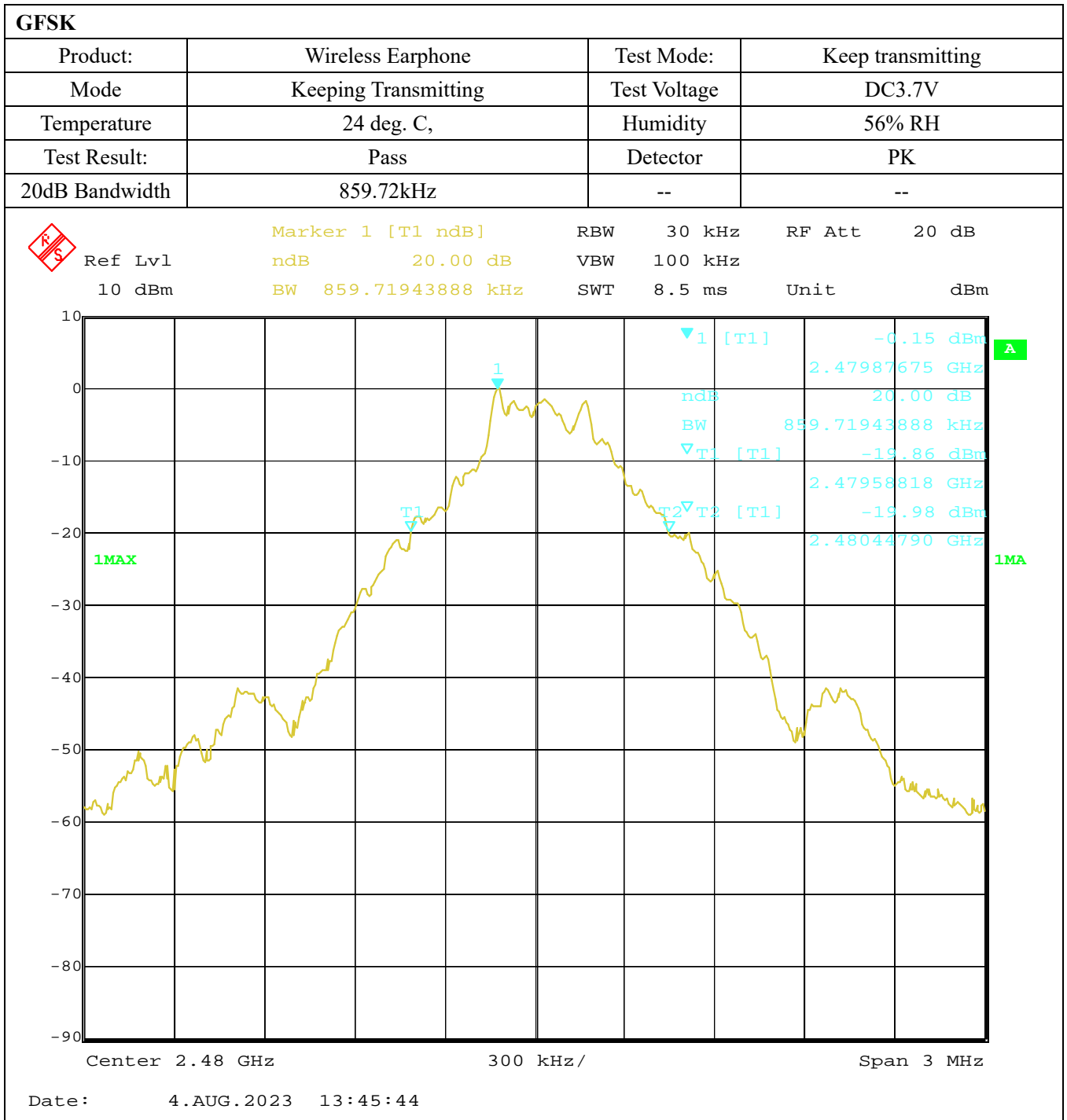
<b>GFSK</b>			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	883.77kHz	--	--



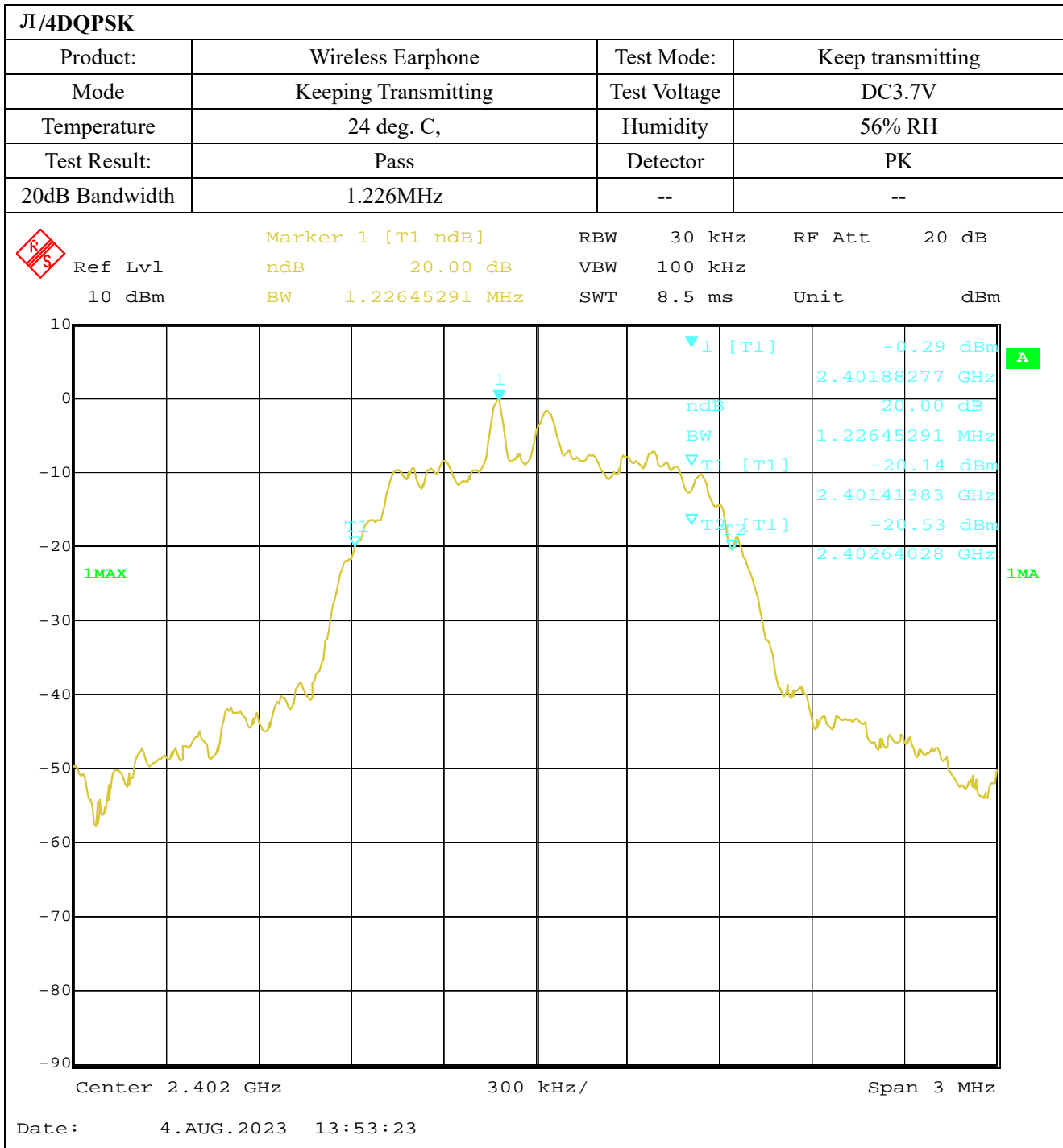
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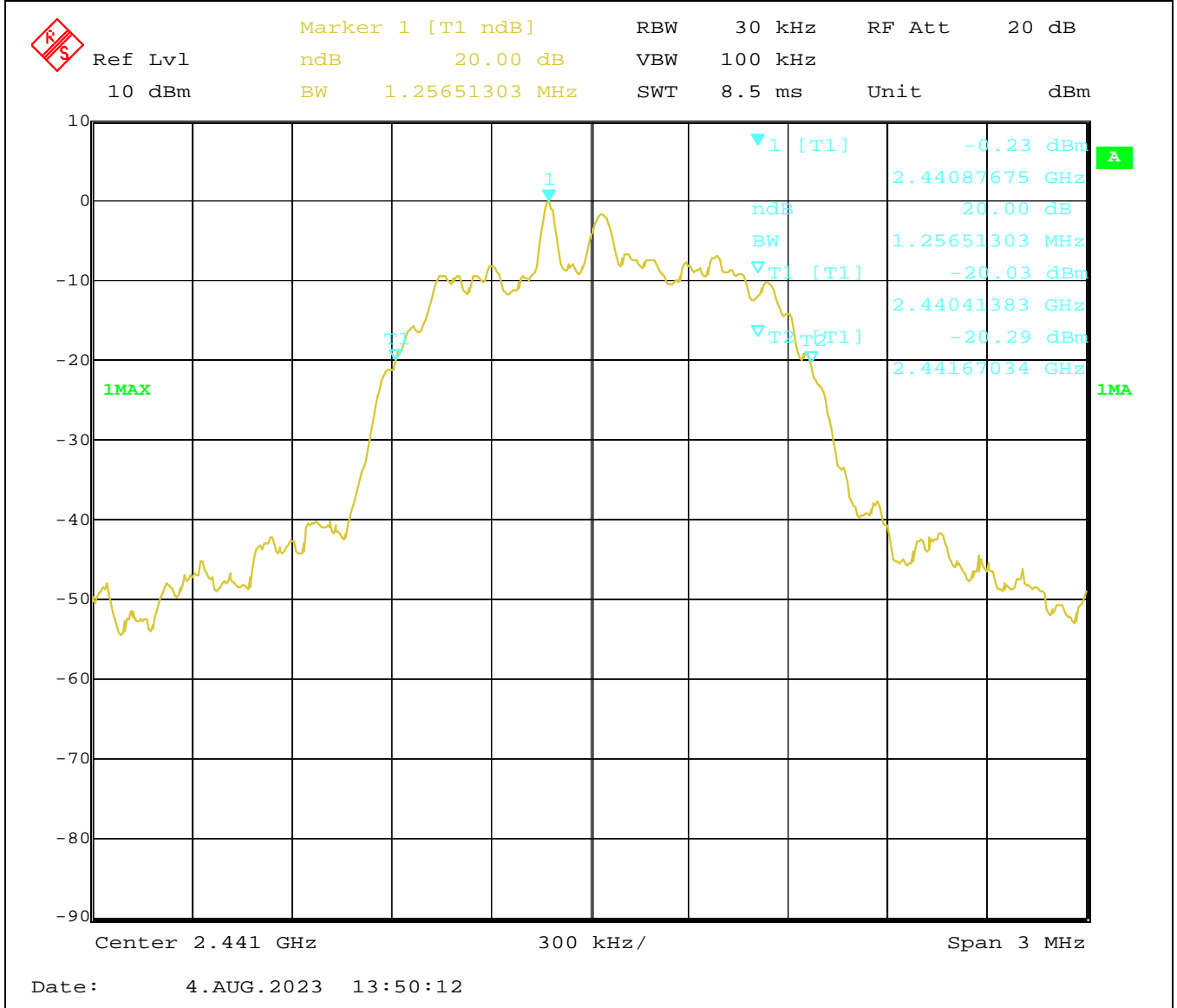
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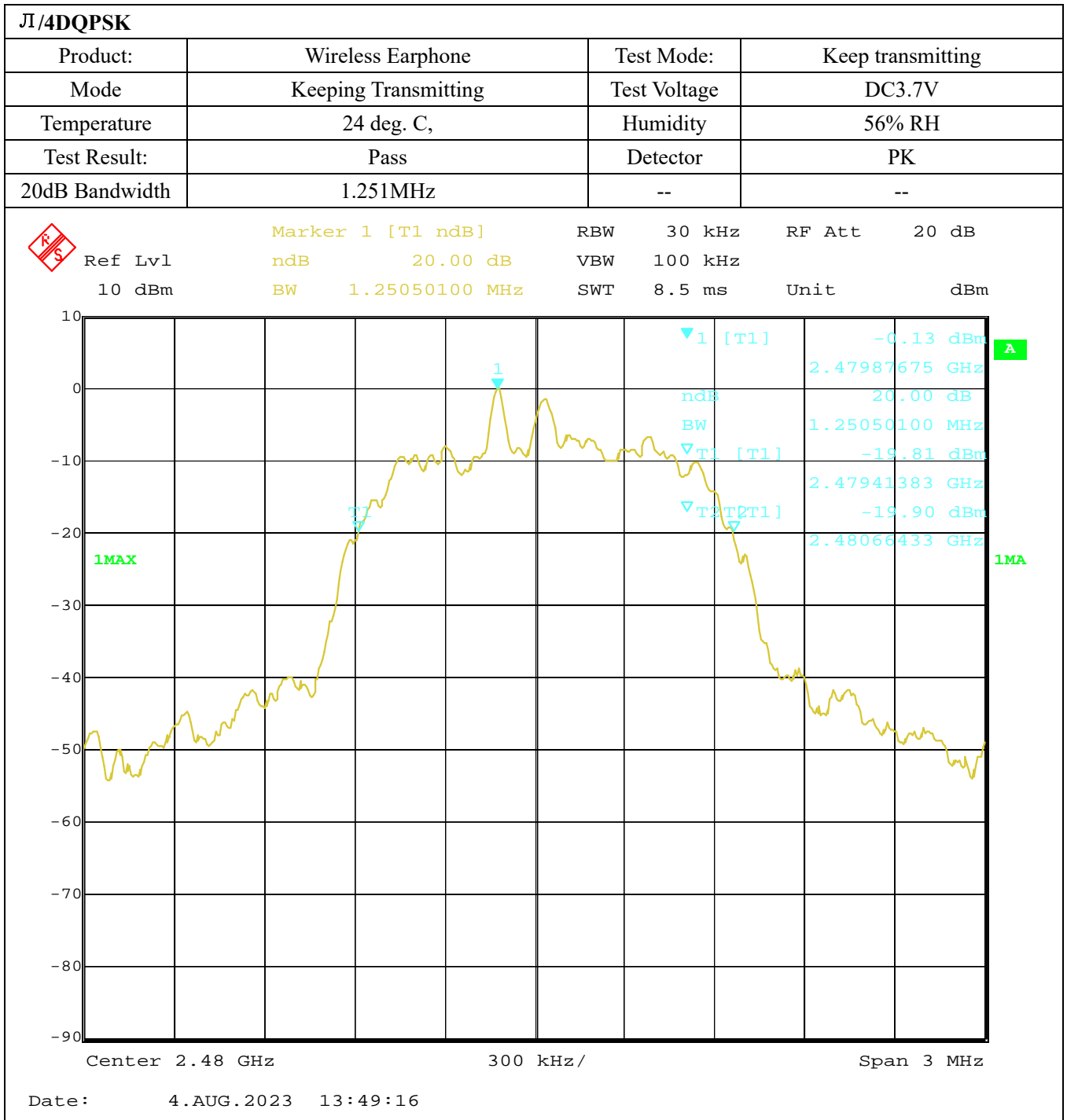
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<b>π/4DQPSK</b>			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.257MHz	--	--



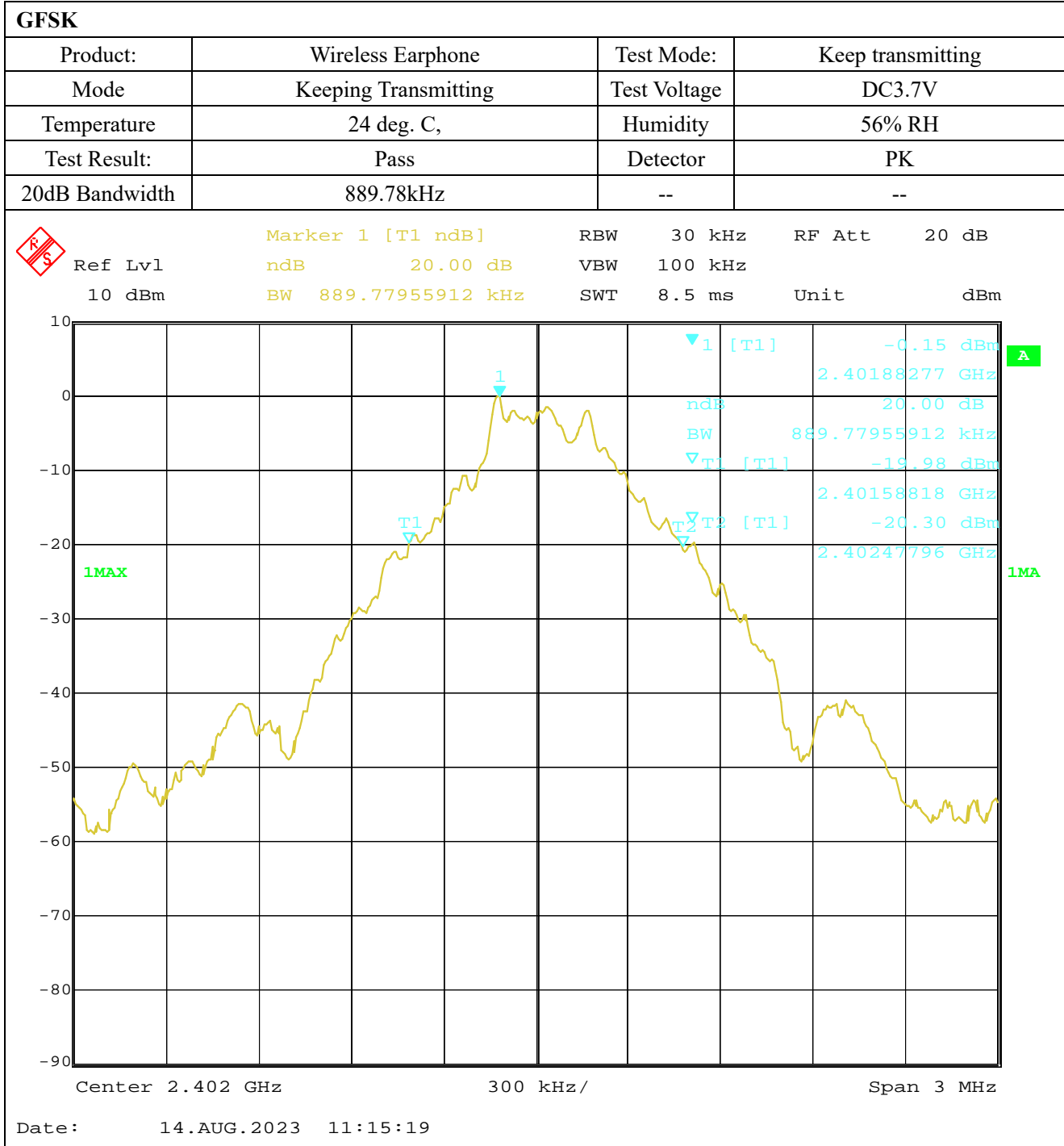
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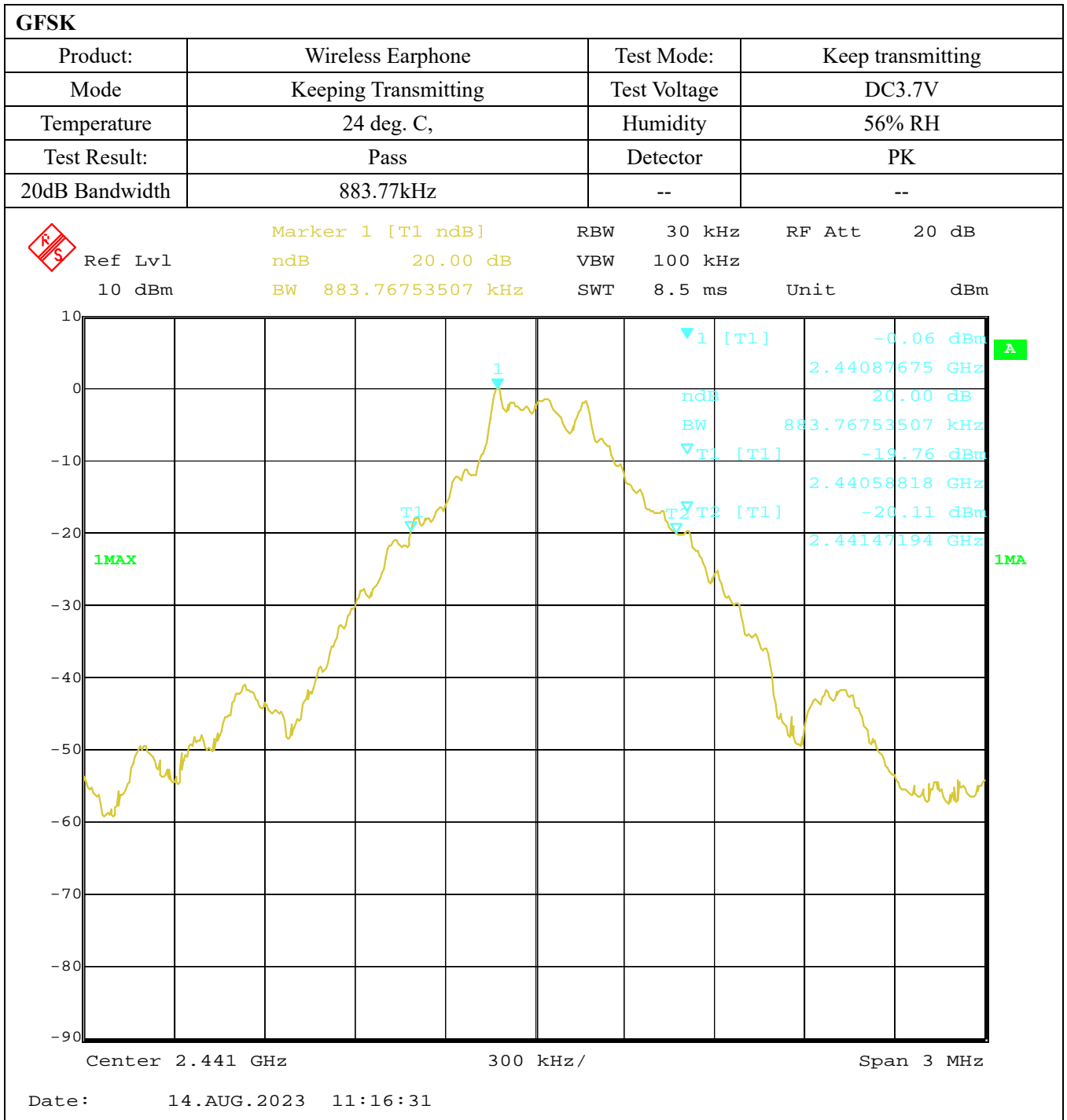
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Right earphone

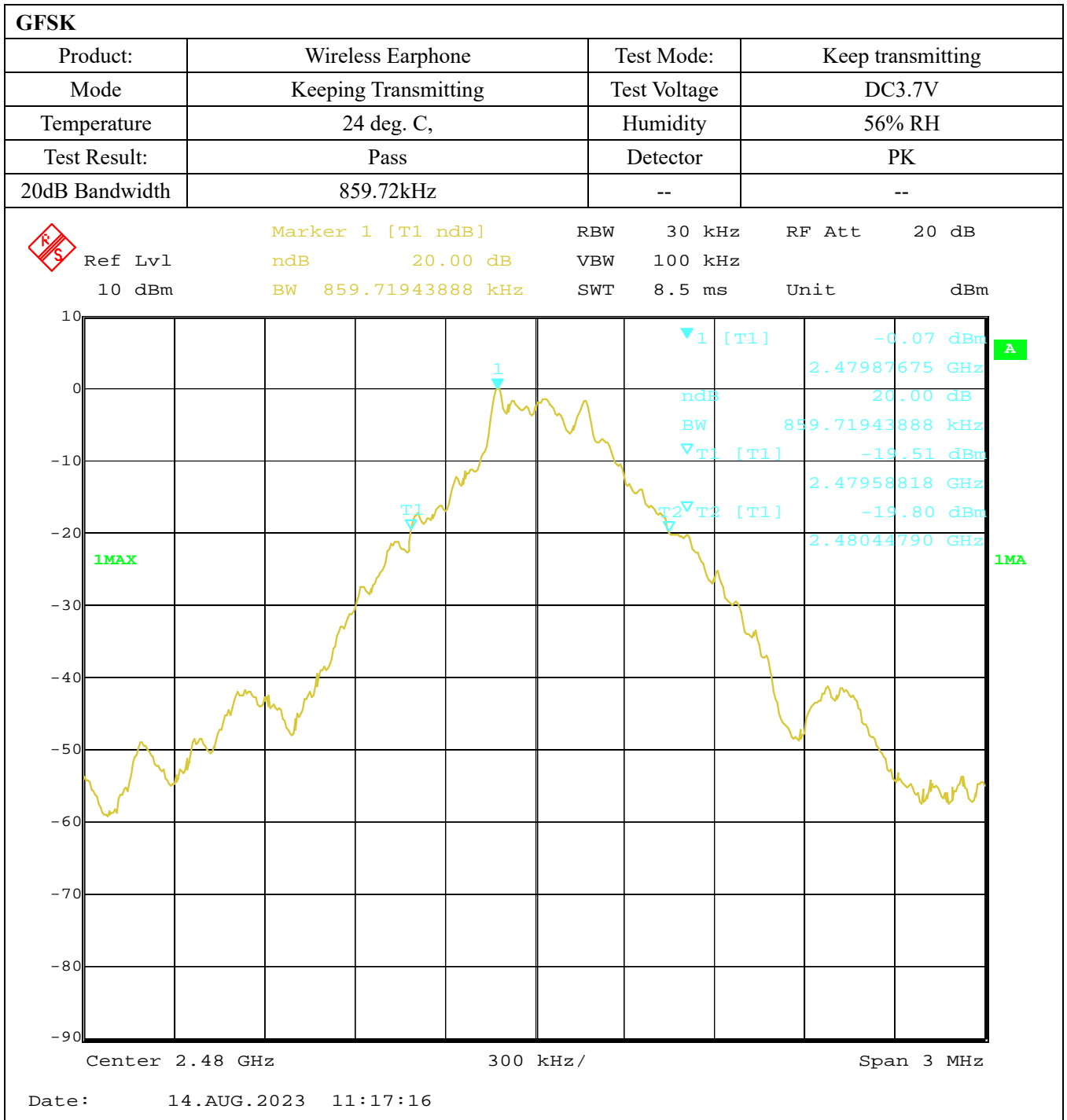


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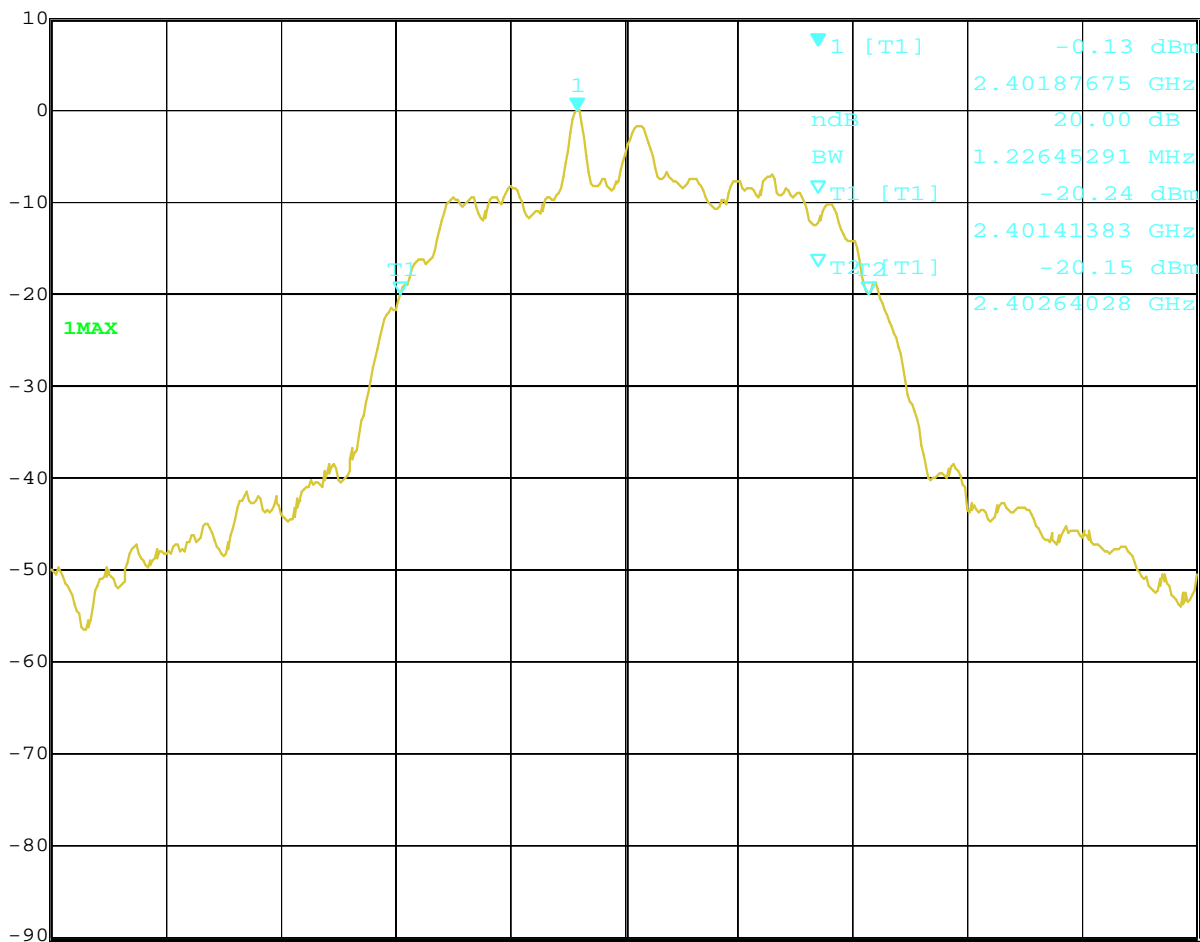
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<b>π/4DQPSK</b>			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.226MHz	--	--



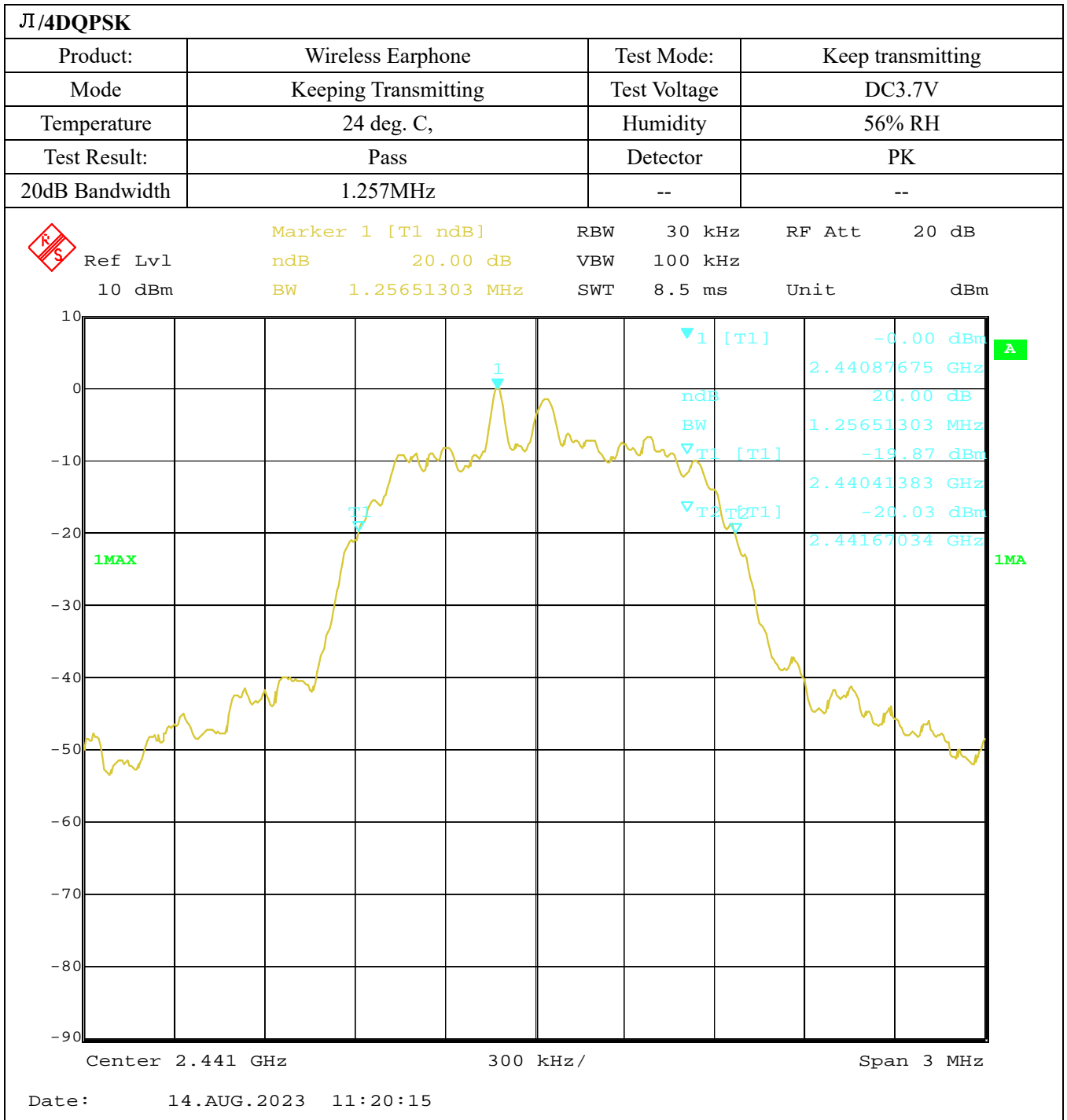
Marker 1 [T1 ndB]      RBW    30 kHz    RF Att    20 dB  
 Ref Lvl                      ndB            20.00 dB    VBW    100 kHz  
 10 dBm                      BW    1.22645291 MHz    SWT    8.5 ms    Unit            dBm



Center 2.402 GHz                      300 kHz/                      Span 3 MHz

Date: 14.AUG.2023 11:21:15

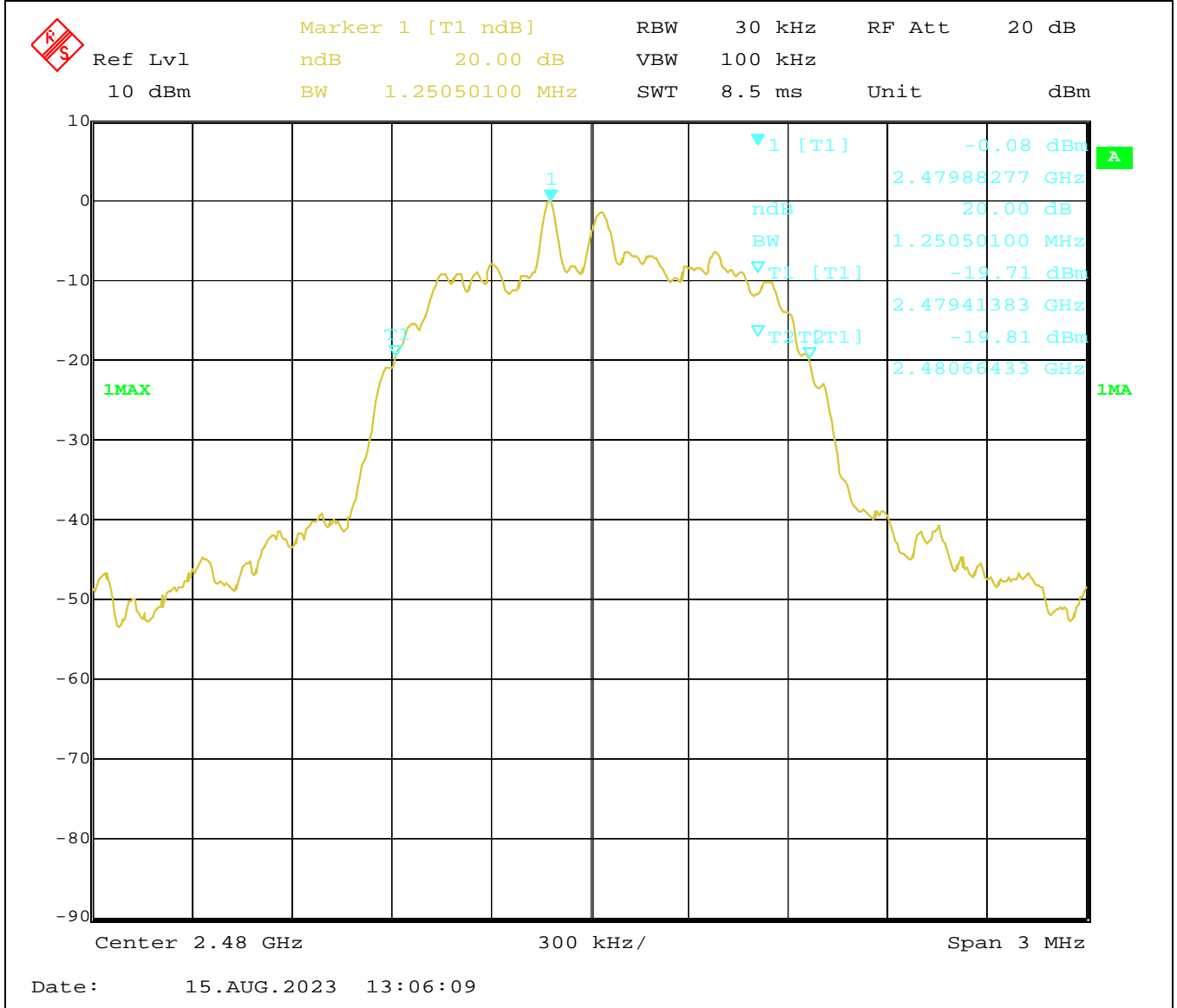
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<b>π/4DQPSK</b>			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.251MHz	--	--



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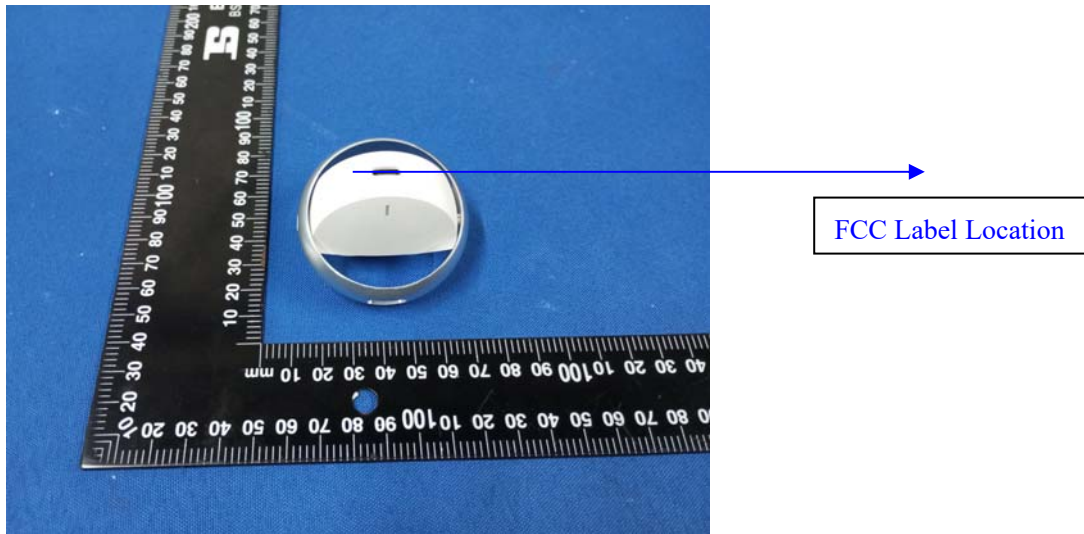


## 10.0 FCC ID Label

**FCC ID: 2AZBO-N00026**

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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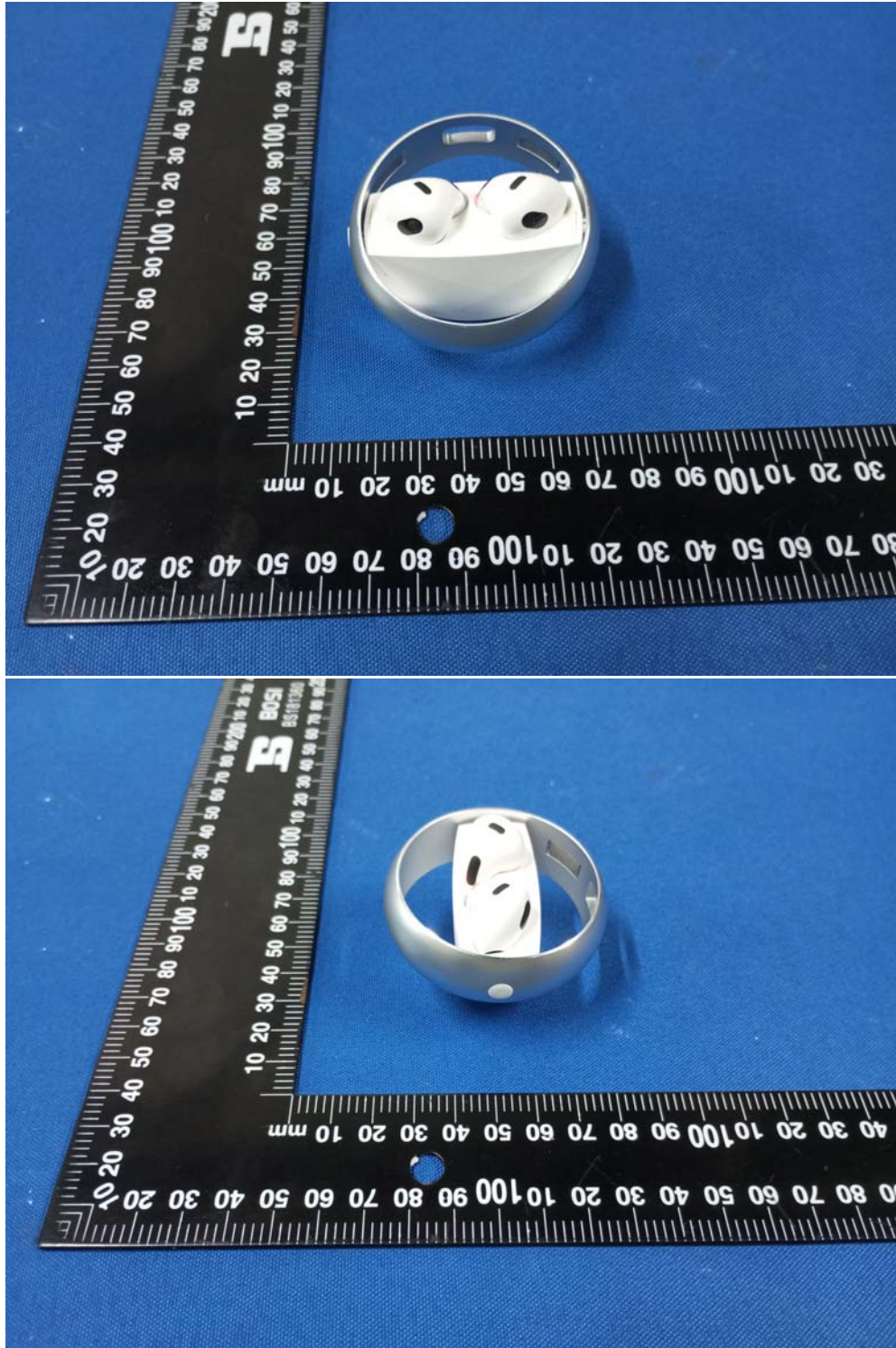
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11.2 Photographs – EUT

Outside View - charger base



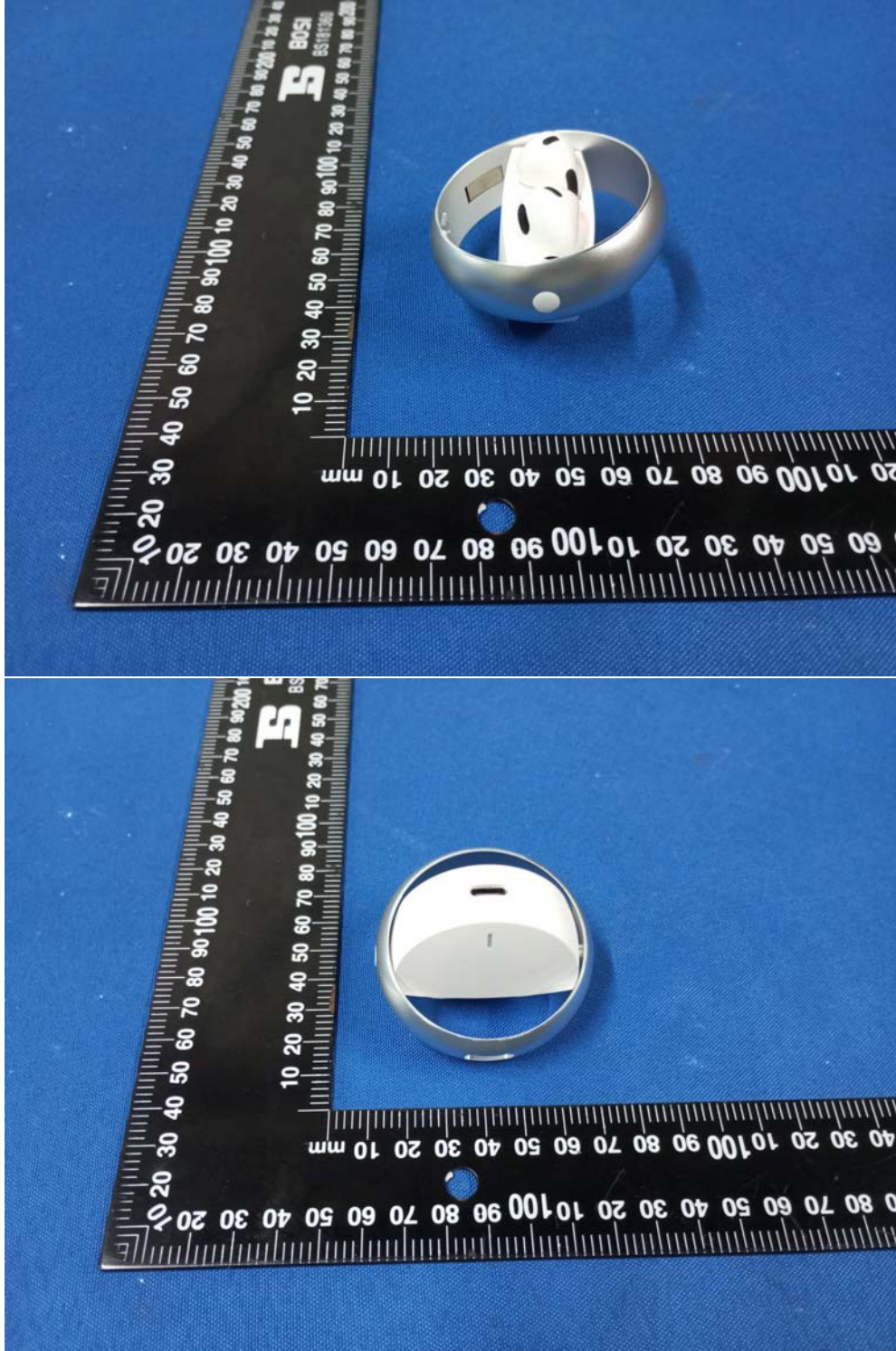
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Outside View - charger base



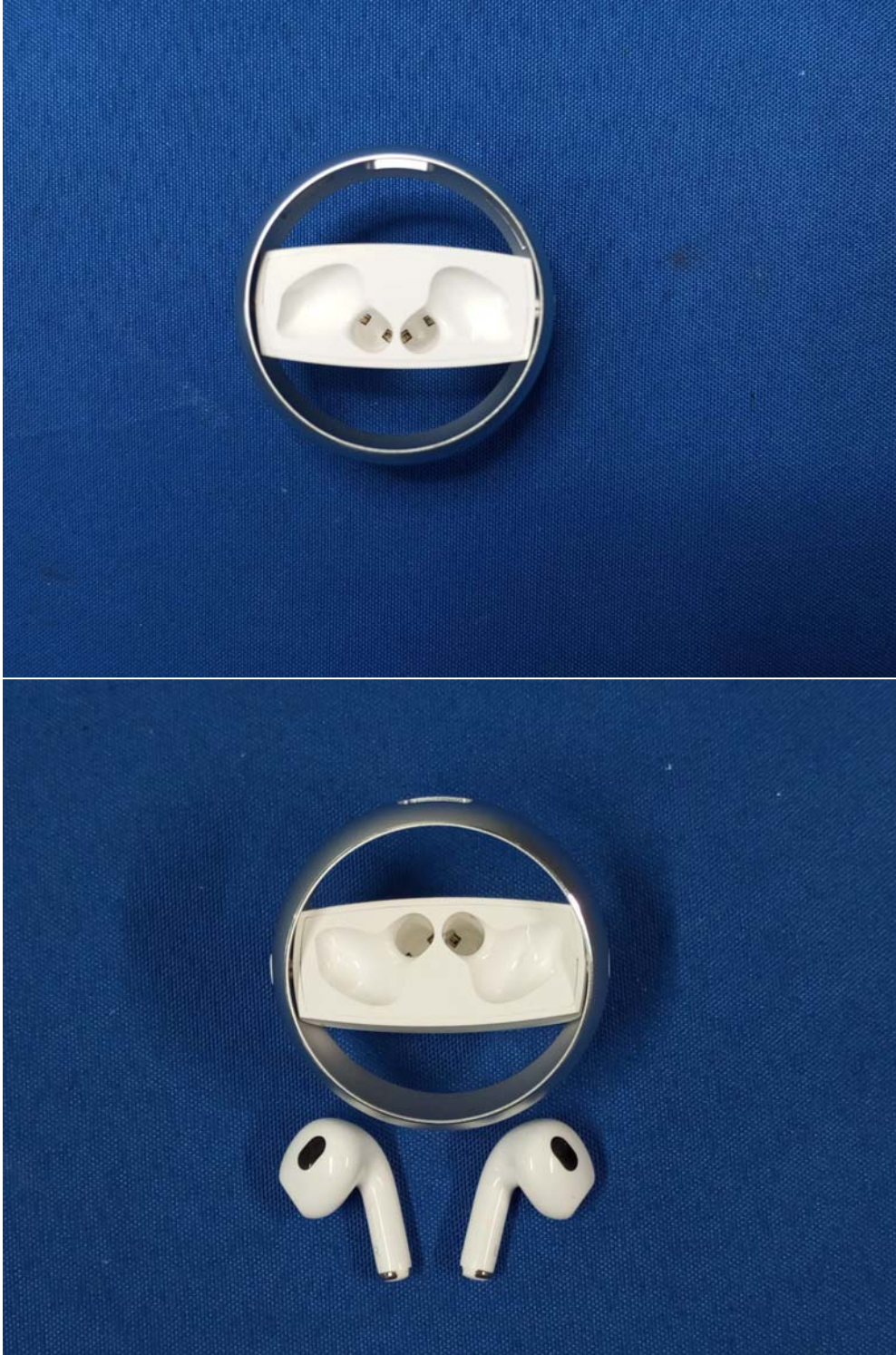
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Outside View - charger base



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Outside View - charger base



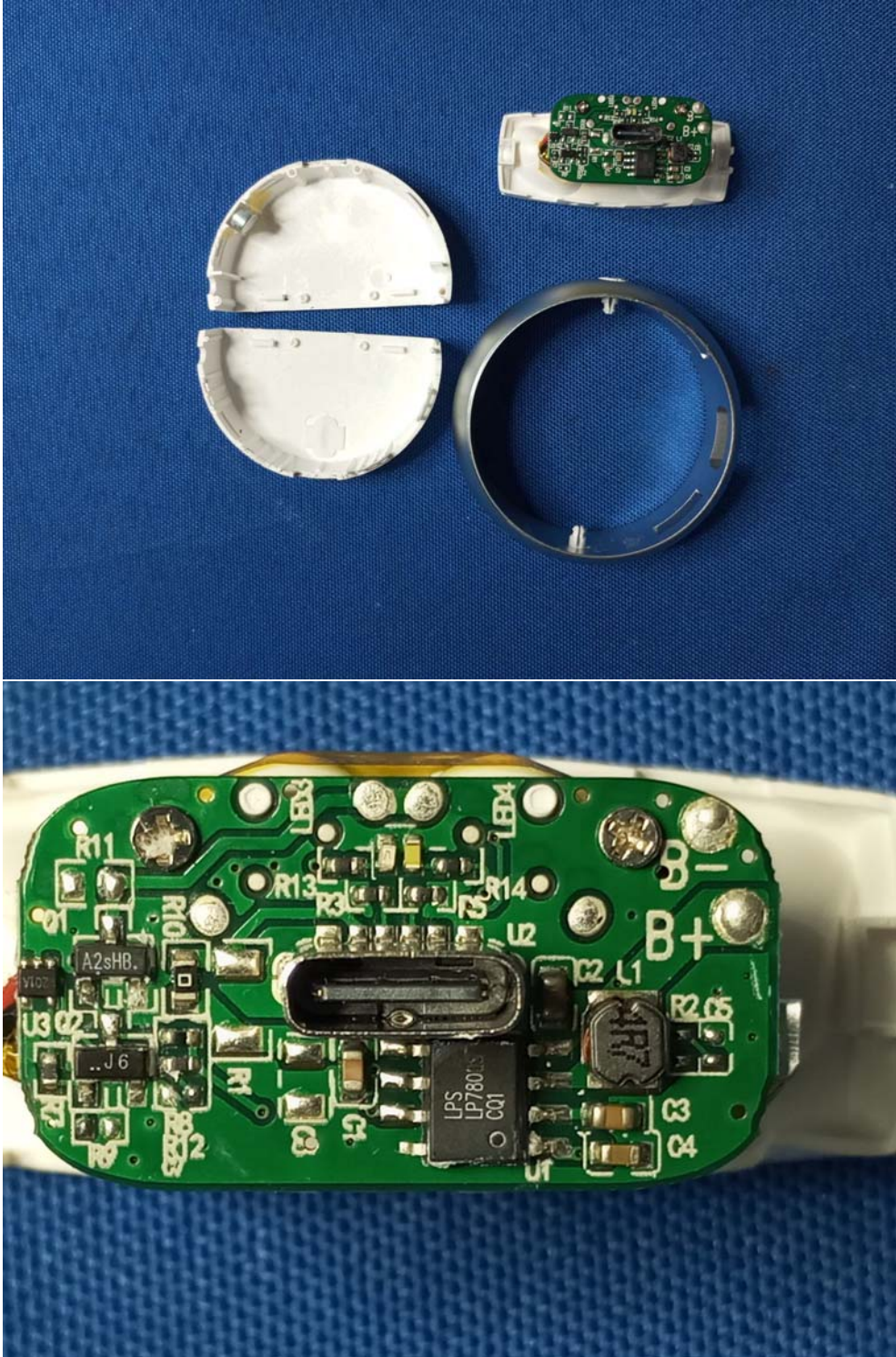
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Inside View - charger base

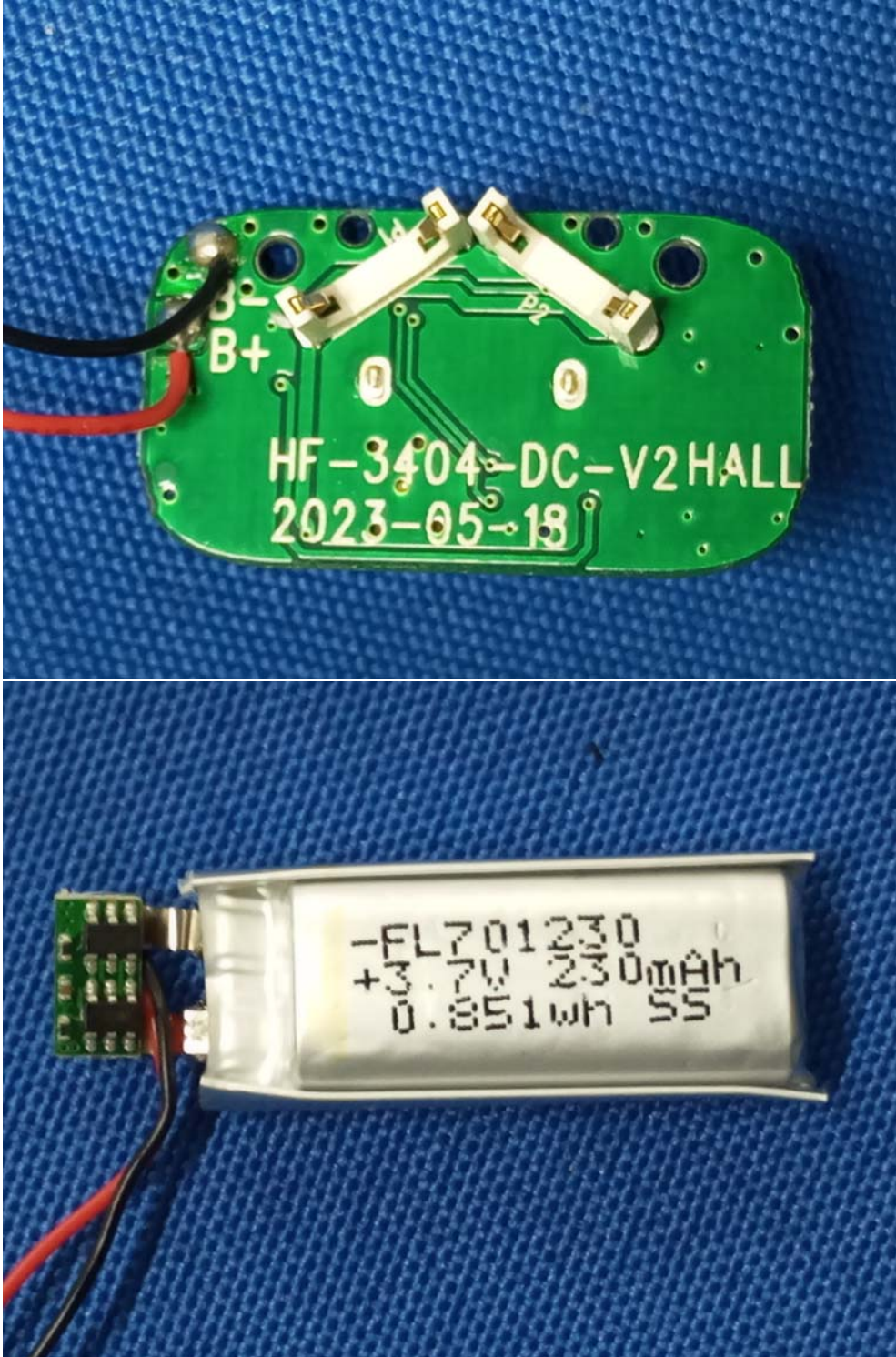


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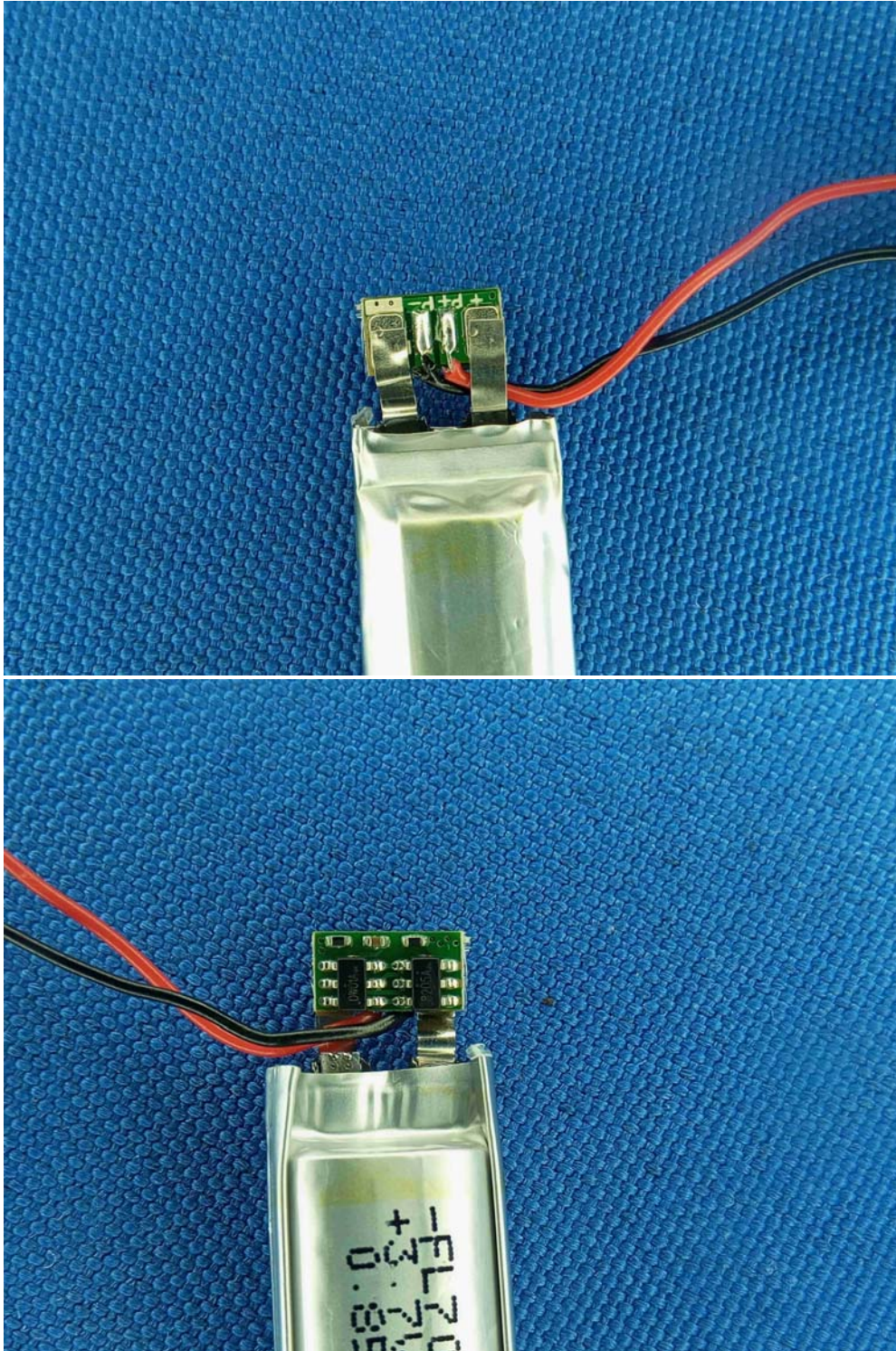
Inside View - charger base



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Inside View - charger base

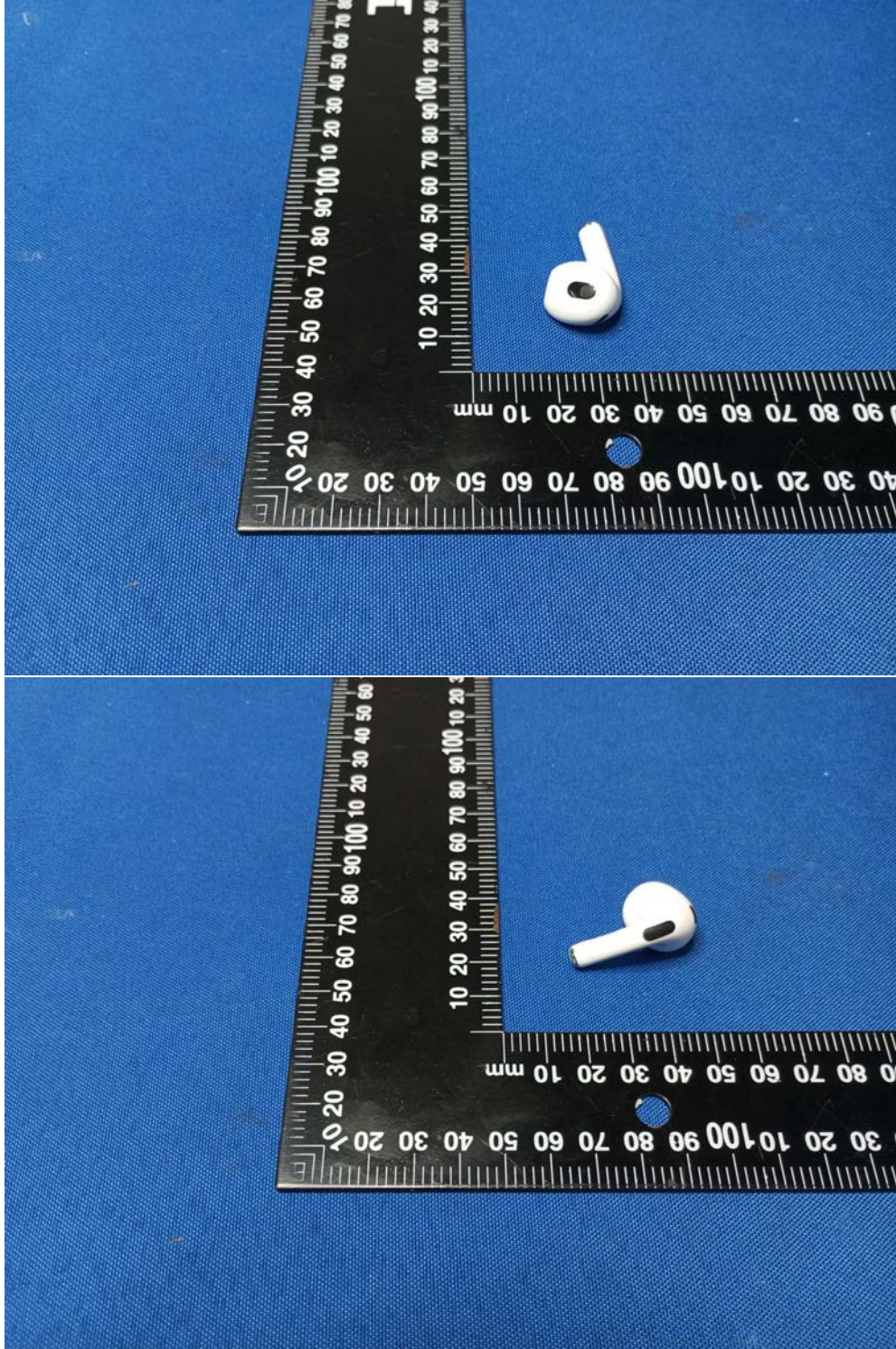


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Outside View - Left earphone



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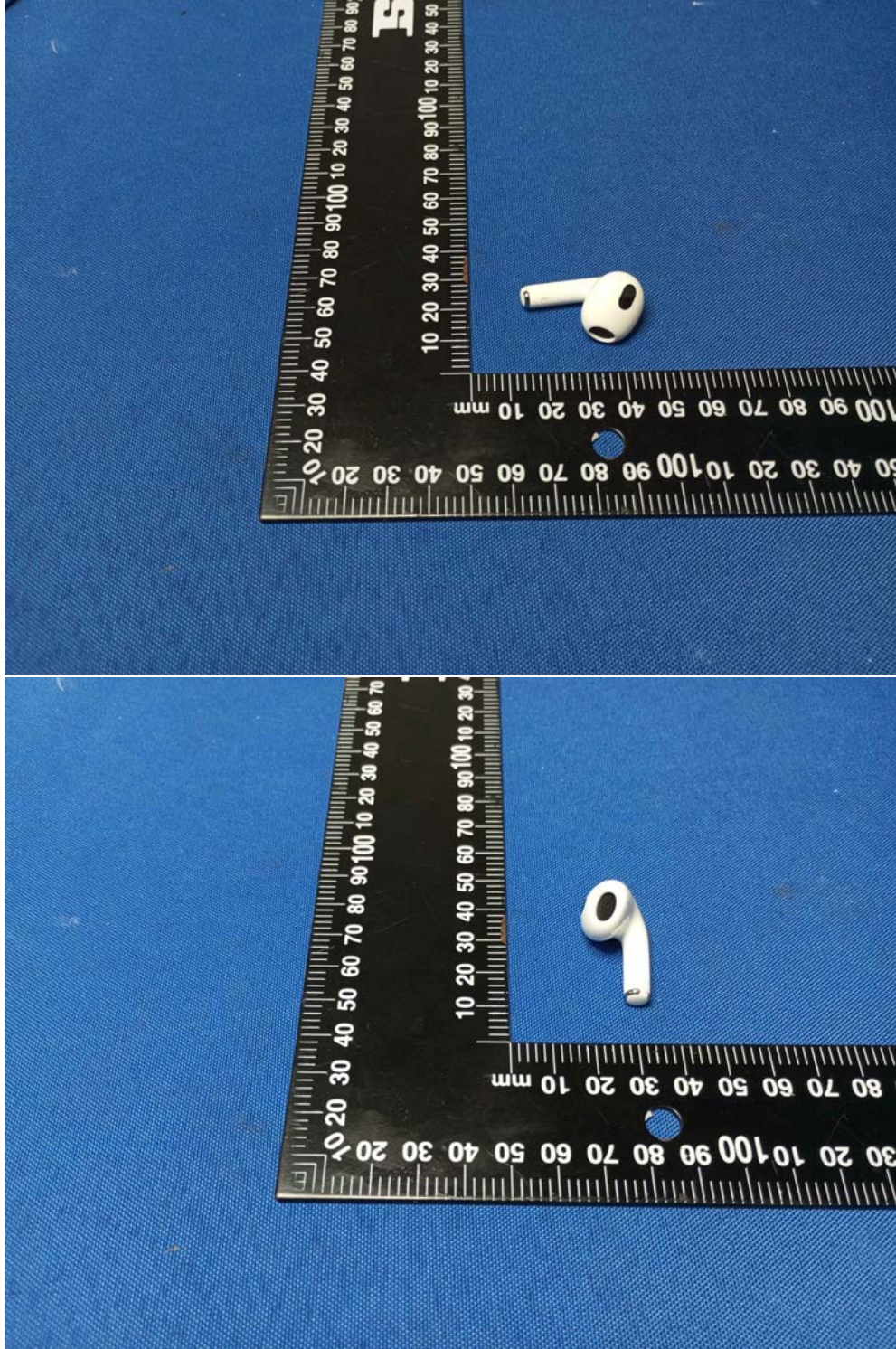
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Outside View - Left earphone



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Inside View - Left earphone



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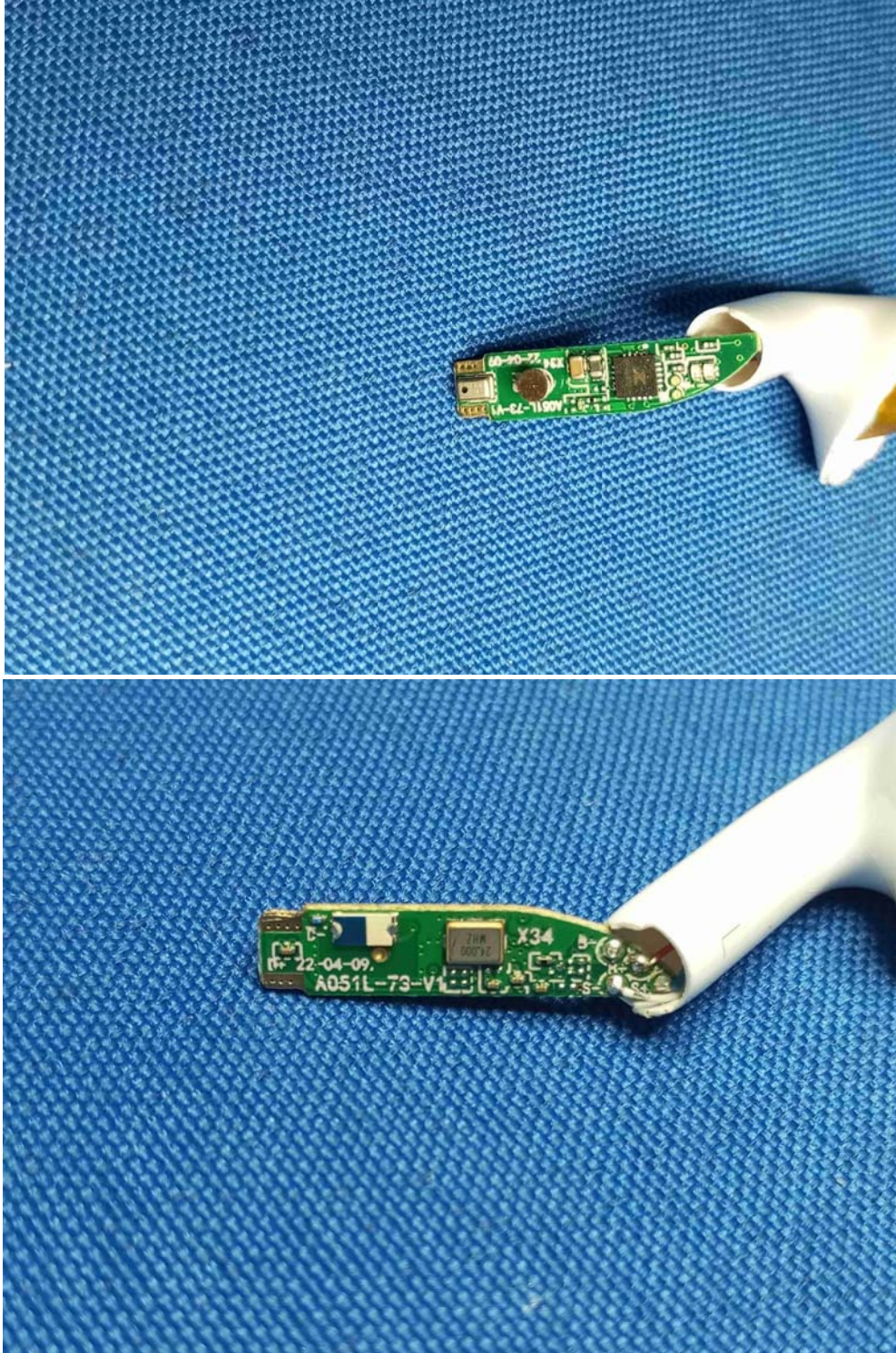
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Inside View - Left earphone



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Inside View - Left earphone



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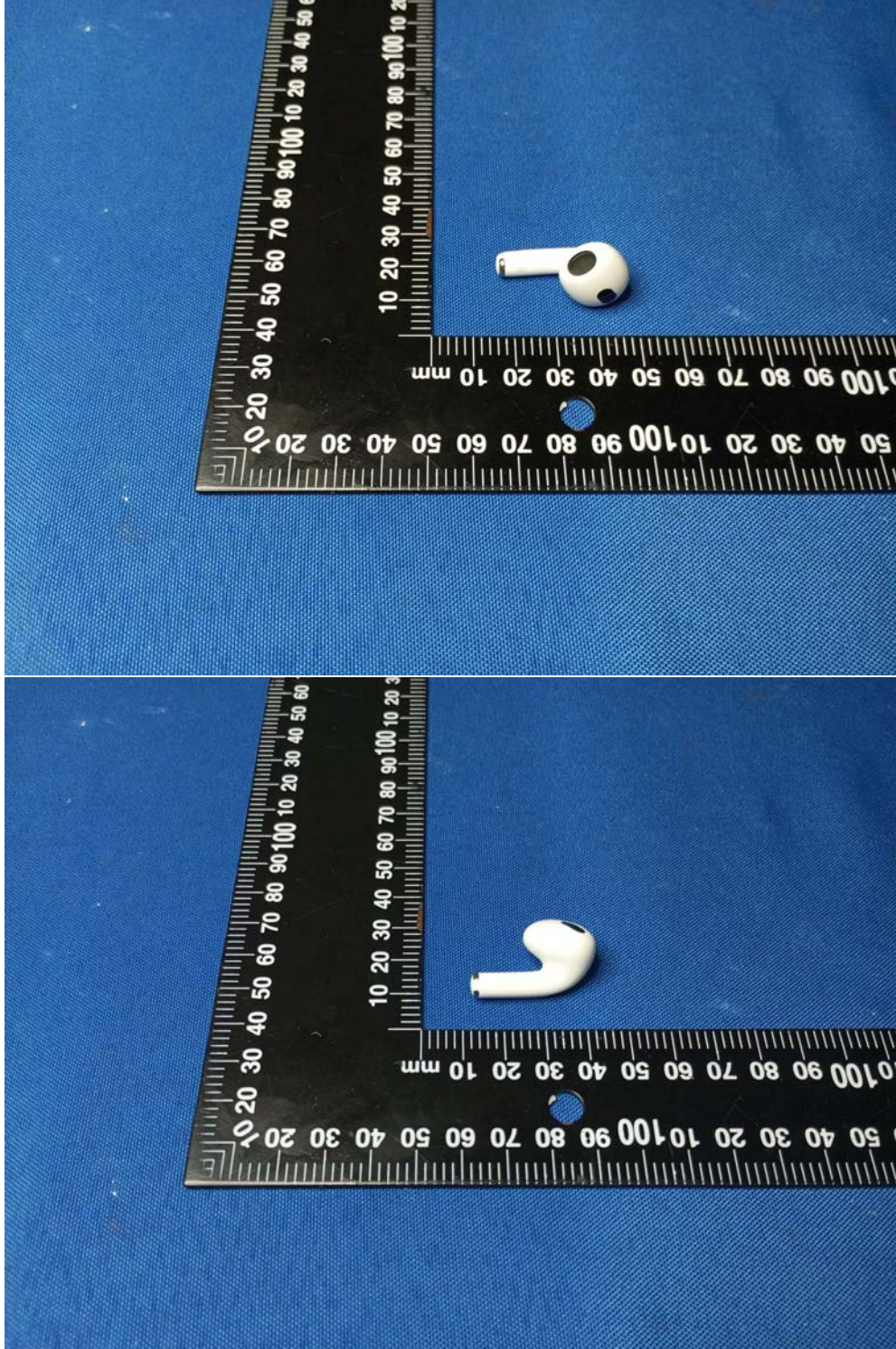
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Outside View - Right earphone



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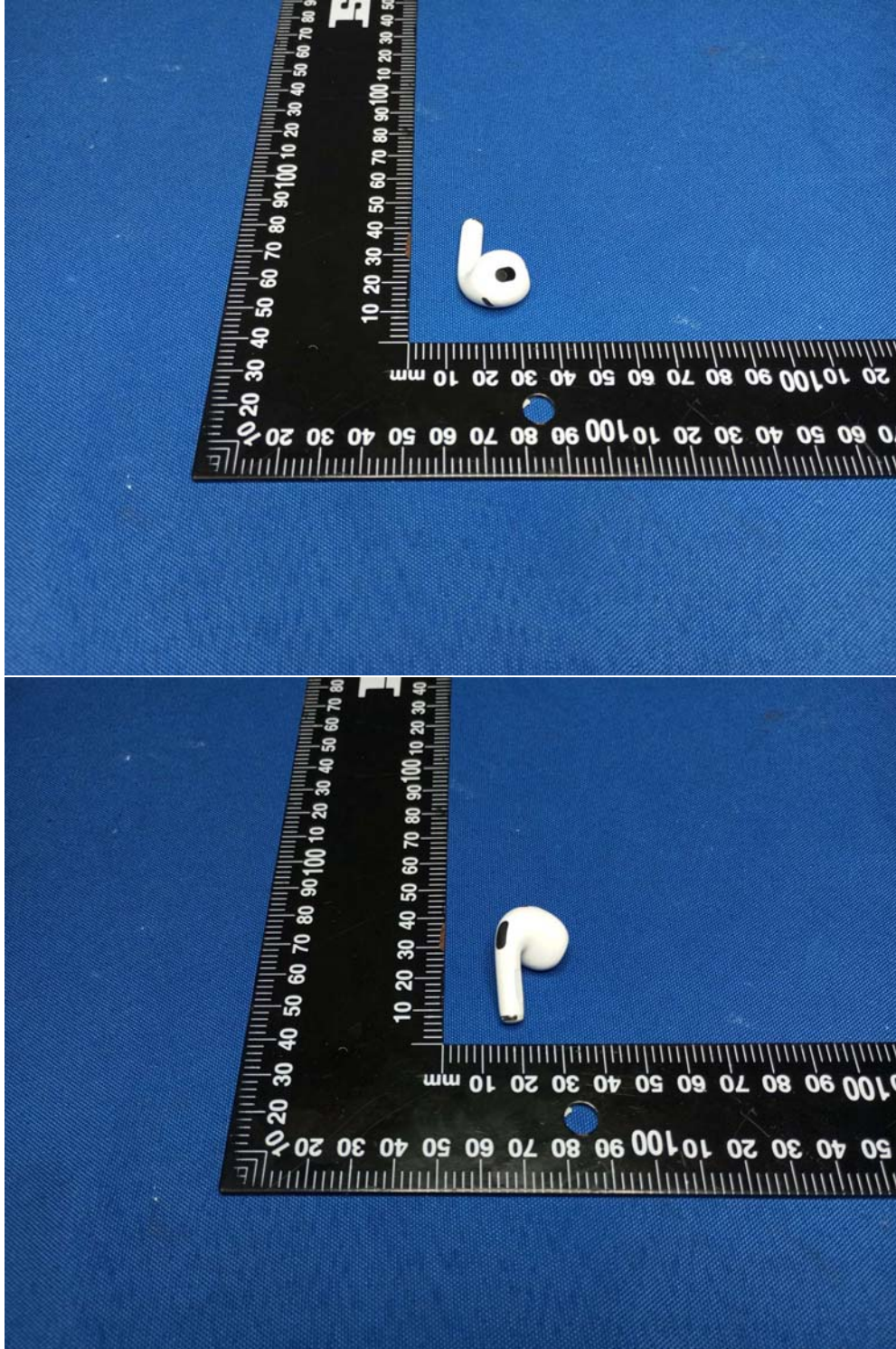
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Outside View - Right earphone



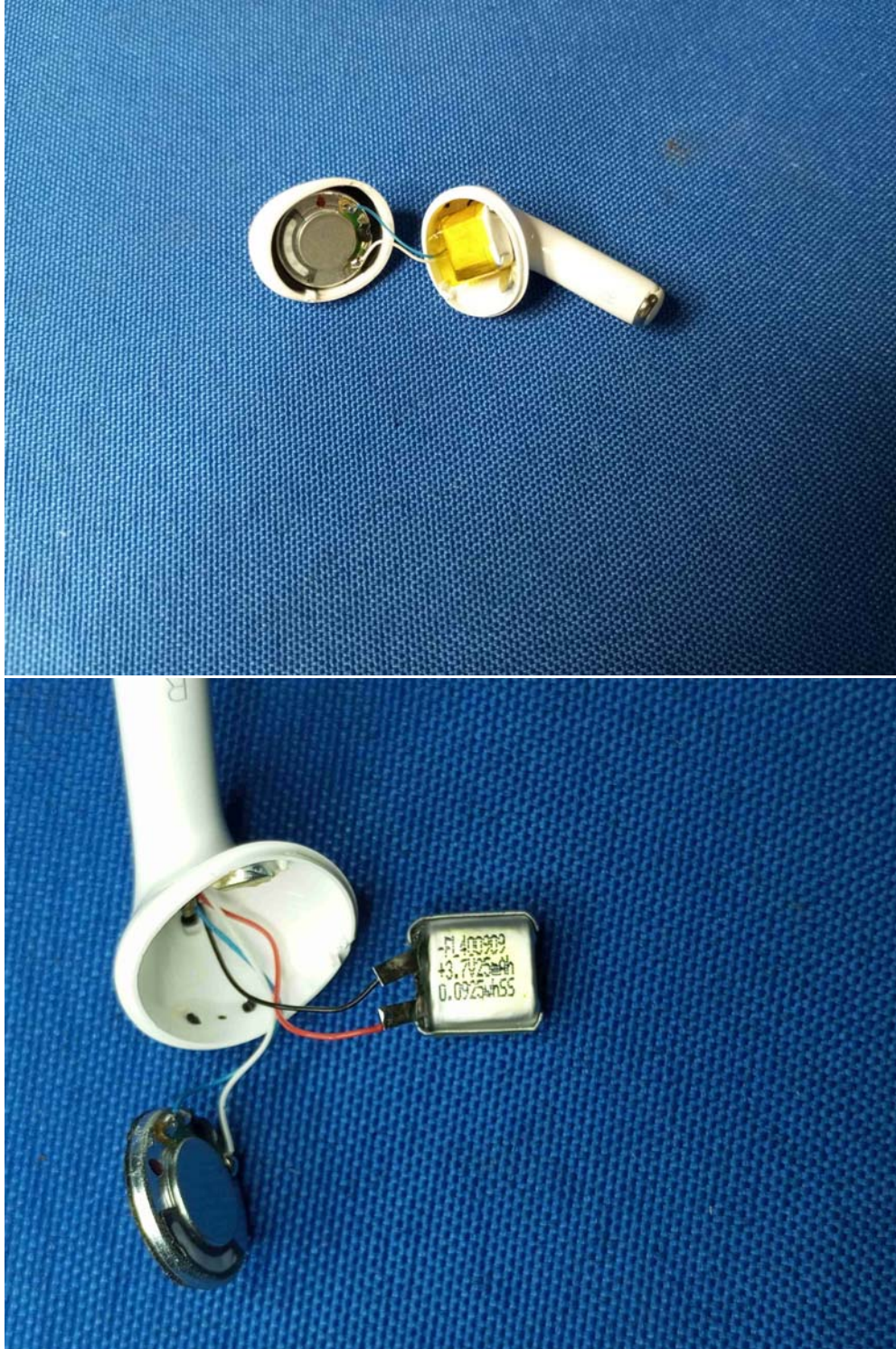
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Inside View - Right earphone

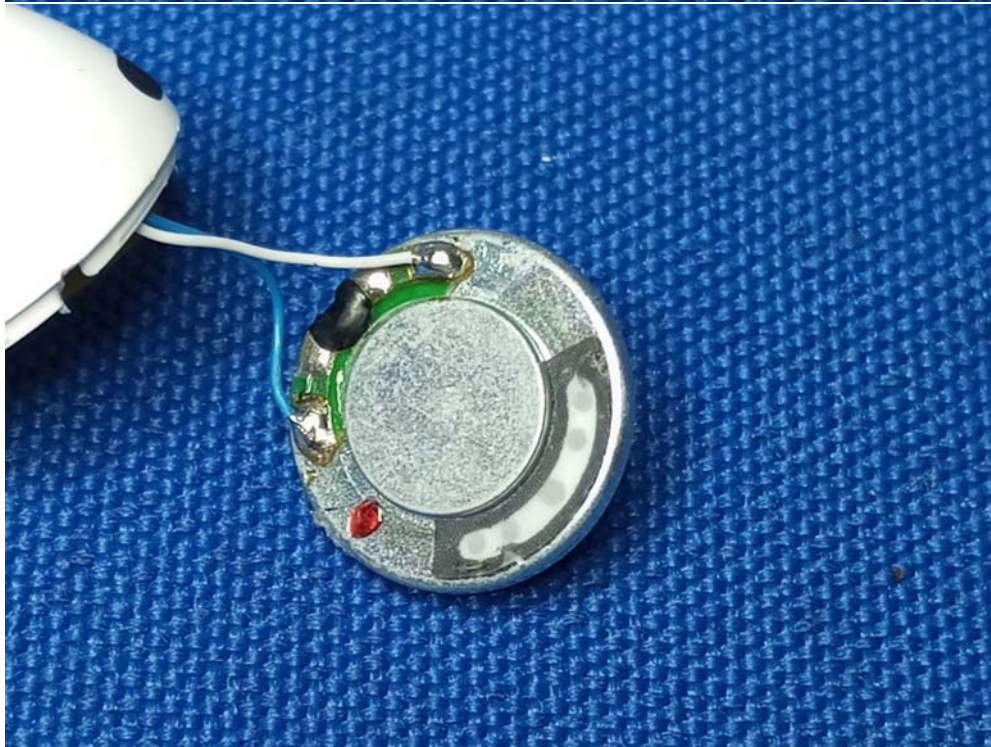


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Inside View - Right earphone



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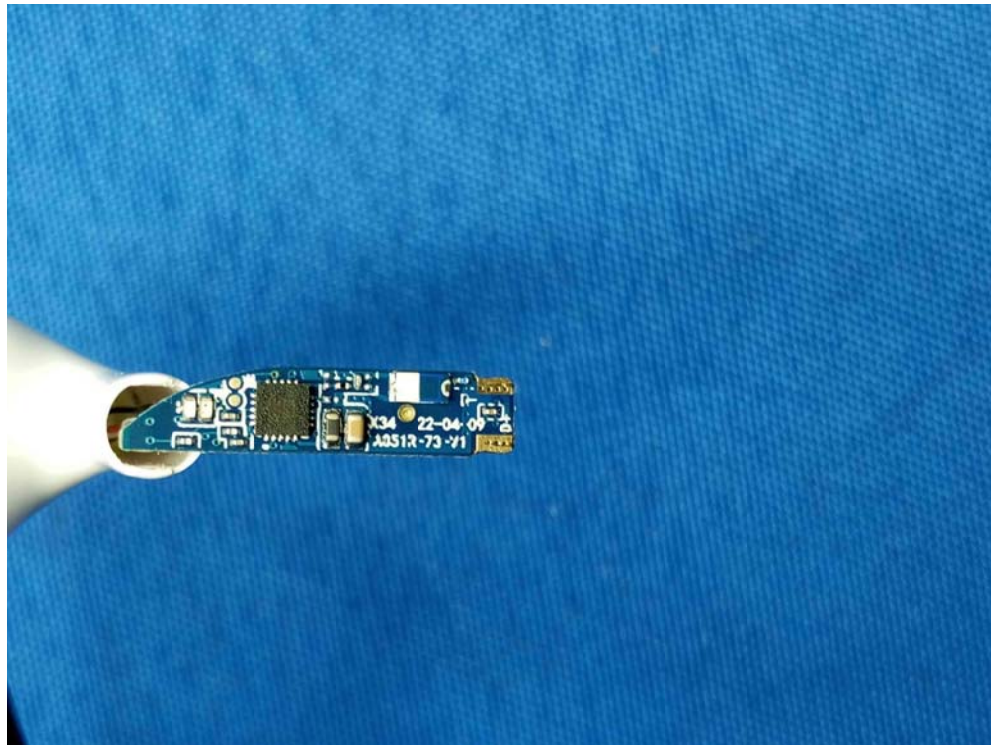
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Inside View - Right earphone

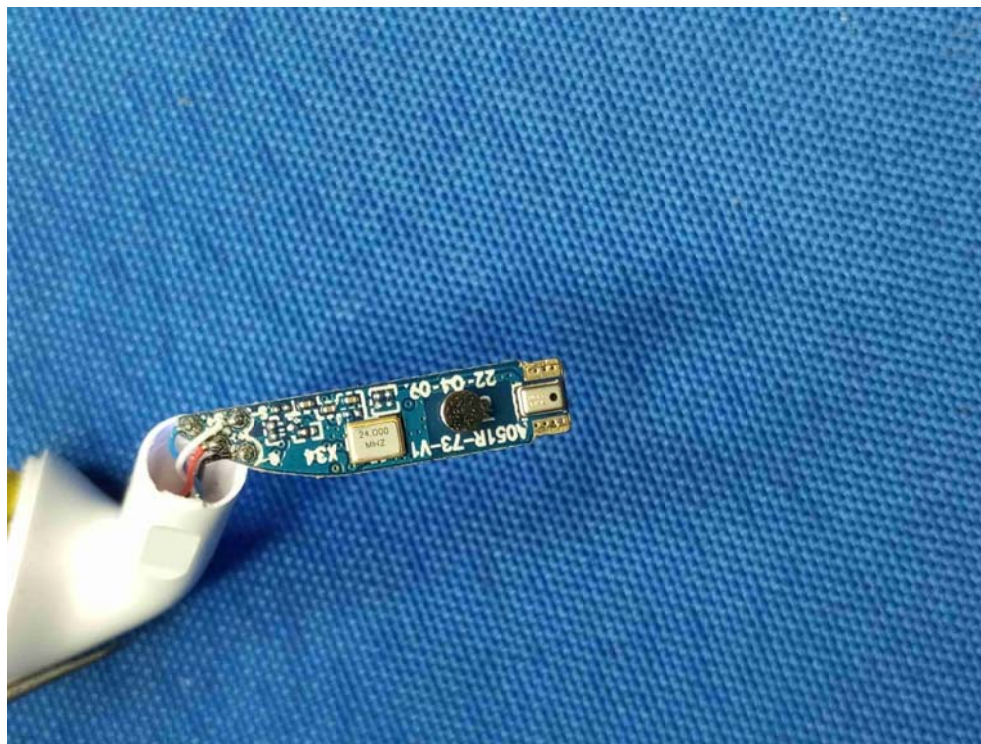


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Inside View - Right earphone



**--End of the report--**

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