

TEST REPORT



Report No.: TW2306323E  
Applicant: LEADER PREMIUMS LIMITED  
Product: LED Portable Double-Sided Makeup Mirror & Phone Holder  
Model No.: LC0110  
Trademark: N/A  
Test Standards: FCC Part 15 Subpart C

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, for the evaluation of electromagnetic compatibility

Approved By

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

Terry Tang

Manager

Dated: July 07, 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



### **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 meets 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: +86 755 83448688  
Fax: +86 755 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: LEADER PREMIUMS LIMITED  
Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO, CHINA  
Telephone: --  
Fax: --

### 1.3 Description of EUT

Product: LED Portable Double-Sided Makeup Mirror & Phone Holder  
Manufacturer: LEADER PREMIUMS LIMITED  
Address: ROOM 901, HENGFU MANSION, NO.858, FUMINGROAD, NINGBO, CHINA  
Trademark: N/A  
Additional Trade Name: N/A  
Model Number: LC0110  
Additional Model Name: N/A  
Rating: Type-C Input: 5V 2A,9V2A; Wireless Output:5V 1A, 9V1.1A  
(Remark: wireless output DC5V/1A and DC9V/1.1A were tested and in the test report, only the worst case was recorded and DC9V/1.1A was the worst case)  
Battery: DC3.7V, 2000mAh Li-ion battery  
Hardware Version: wirelesscharging-LC0110  
Software Version: leader.2021.11  
Serial No.: N/A  
Operation Frequency: 111.5kHz-205kHz  
Test Frequency: 175kHz  
Modulation Type: MSK  
Antenna Designation Inductive Loop Antenna with gain 0dBi Max (Declared by the applicant)

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Note: There are two modes of power supply: DC input and internal battery. Each was tested and only the worst case is reported. DC input is the worst case

1.4 Submitted Sample

1 Sample

1.5 Test Duration

2023-06-27 to 2023-07-07

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 9kHz-30MHz Uncertainty =4.3dB

Radiated Emissions below 30MHz-1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
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	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m	--	2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

## 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>
FCC Part 15, Paragraph 15.203	Antenna requirements	<b>Pass</b>	Compliant
FCC Part 15, Paragraph 15.207	Conducted Emission Test	<b>Pass</b>	Compliant
FCC Part 15, Paragraph 15.209 (a) (f)	General Requirement	<b>Pass</b>	Compliant
FCC Part 15, Paragraph 15.215	20dB Bandwidth Testing	<b>Pass</b>	Compliant

#### 3.2 Test Standards

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

### 4.0 EUT Modification

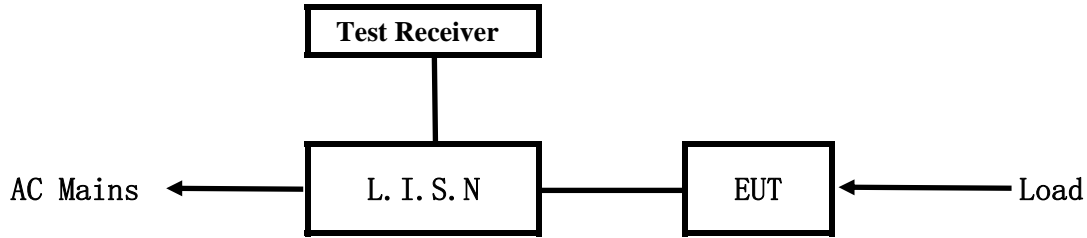
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



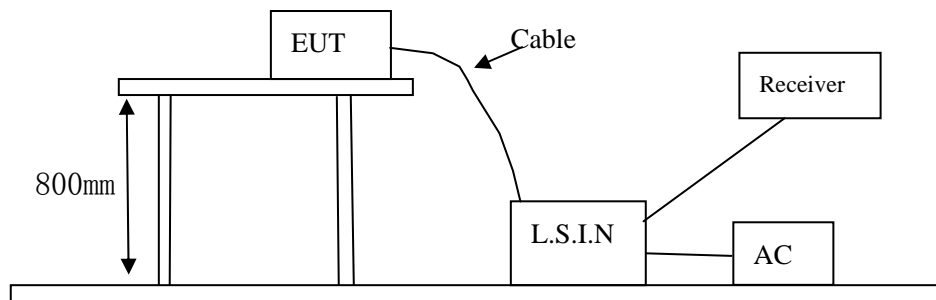
EUT: Equipment Under Test

### 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.

#### A. EUT

Device	Manufacturer	Model	FCC ID
LED Portable Double-Sided Makeup Mirror & Phone Holder	LEADER PREMIUMS LIMITED	LC0110	2APYY-LC0110

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Infinix	XC1165US	Input: 100-240V~, 50-60Hz, 1.5A; Output: DC5V/3A or DC9V, 3A or DC15V, 3A or DC20V, 3.25A

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)	
	Quas-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

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)

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

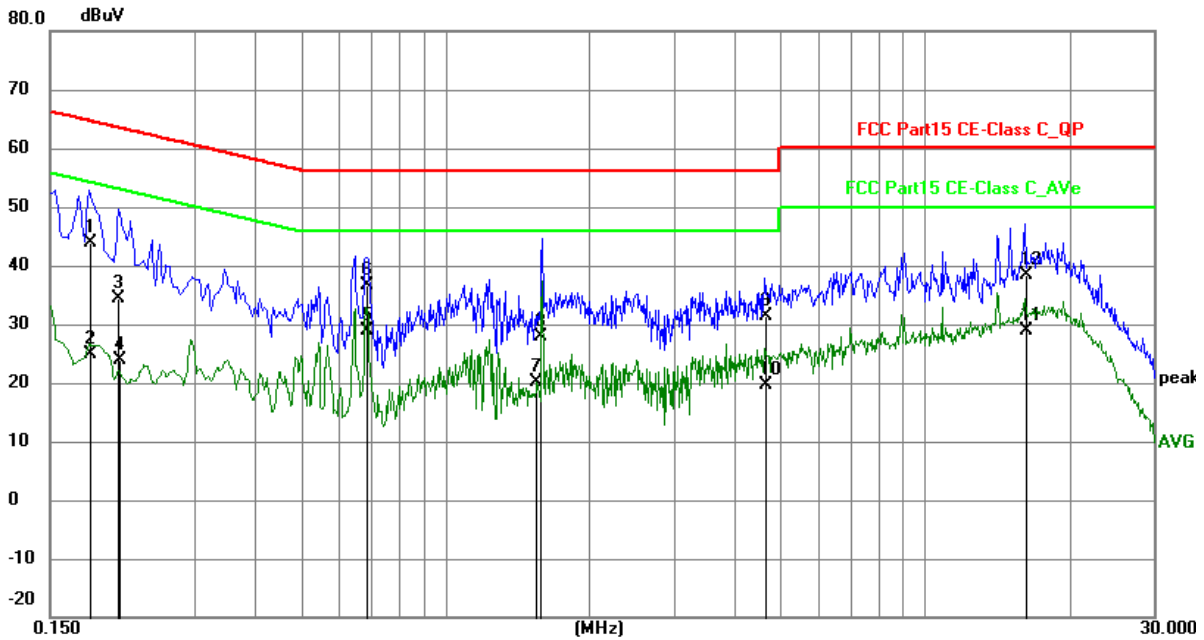
**EUT Operating Environment**

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**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	0.1819	34.00	9.76	43.76	64.40	-20.64	QP	P
2	0.1819	15.21	9.76	24.97	54.40	-29.43	AVG	P
3	0.2080	24.72	9.75	34.47	63.28	-28.81	QP	P
4	0.2090	14.08	9.75	23.83	53.24	-29.41	AVG	P
5	0.6850	19.03	9.78	28.81	46.00	-17.19	AVG	P
6	0.6860	26.96	9.78	36.74	56.00	-19.26	QP	P
7	1.5430	10.37	9.80	20.17	46.00	-25.83	AVG	P
8	1.5830	17.98	9.80	27.78	56.00	-28.22	QP	P
9	4.6230	21.53	9.91	31.44	56.00	-24.56	QP	P
10	4.6510	9.69	9.91	19.60	46.00	-26.40	AVG	P
11	16.1810	18.48	10.45	28.93	50.00	-21.07	AVG	P
12	16.1820	27.92	10.45	38.37	60.00	-21.63	QP	P

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

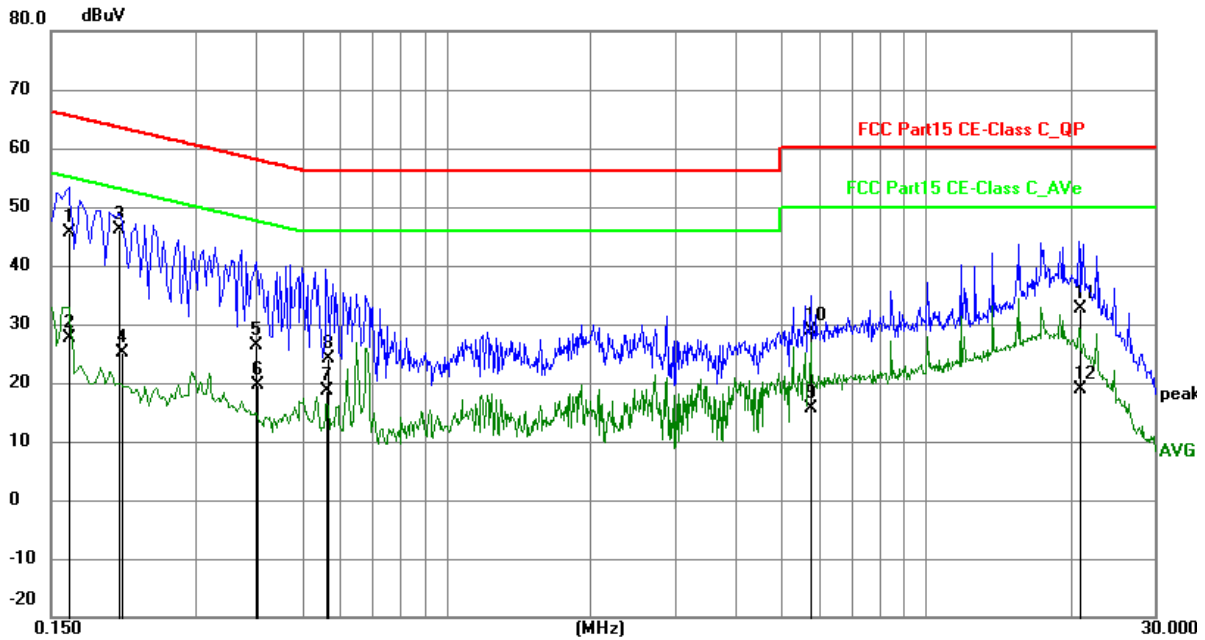
**EUT Operating Environment**

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep Transmitting**

**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	0.1630	35.97	9.78	45.75	65.31	-19.56	QP	P
2	0.1630	17.96	9.78	27.74	55.31	-27.57	AVG	P
3	0.2080	36.40	9.75	46.15	63.28	-17.13	QP	P
4	0.2100	15.42	9.75	25.17	53.21	-28.04	AVG	P
5	0.4010	16.67	9.76	26.43	57.83	-31.40	QP	P
6	0.4020	9.77	9.76	19.53	47.81	-28.28	AVG	P
7	0.5639	8.80	9.77	18.57	46.00	-27.43	AVG	P
8	0.5650	14.35	9.77	24.12	56.00	-31.88	QP	P
9	5.7630	5.77	9.96	15.73	50.00	-34.27	AVG	P
10	5.7690	18.93	9.96	28.89	60.00	-31.11	QP	P
11	20.8310	21.97	10.73	32.70	60.00	-27.30	QP	P
12	20.8700	8.05	10.73	18.78	50.00	-31.22	AVG	P

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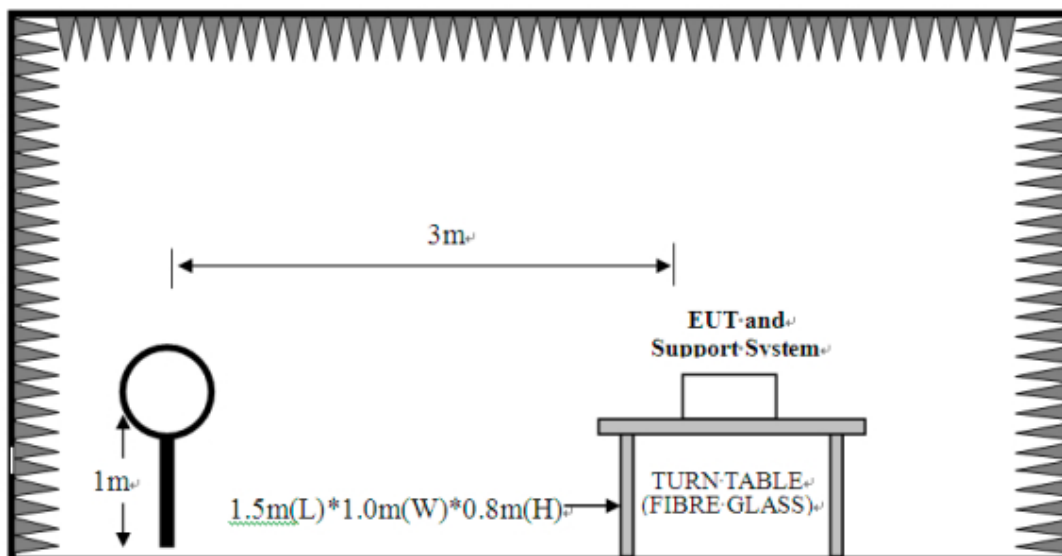
## 6.0 Radiated Emission Test

### 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 9 kHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with RBW=120 kHz/VBW=300 kHz; All readings from 9 kHz to 30 MHz are quasi-peak values with RBW=10 kHz/VBW=30 kHz. For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission test in these three bands are based on measurements employing an average detector. 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) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

#### 9kHz-30MHz



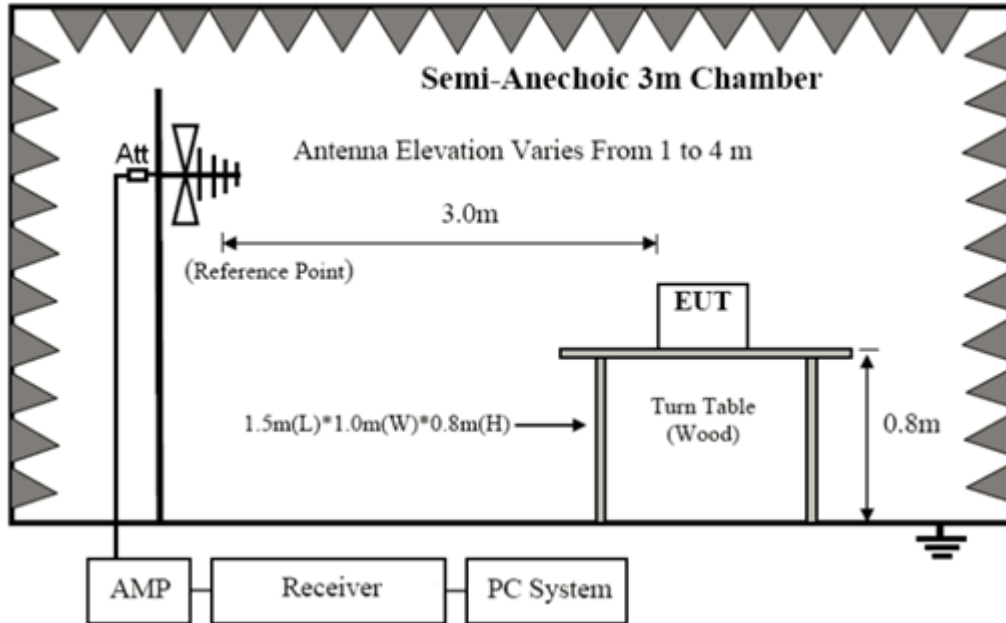
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**30MHz-1000MHz**



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:

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

**Limits for frequency below 30MHz**

Frequency Range (MHz)	Distance (m)	Field strength (V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30	30	30

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**Limits for frequency above 30MHz**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage ( $\mu$ V)
  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. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

**6.5 Test result**

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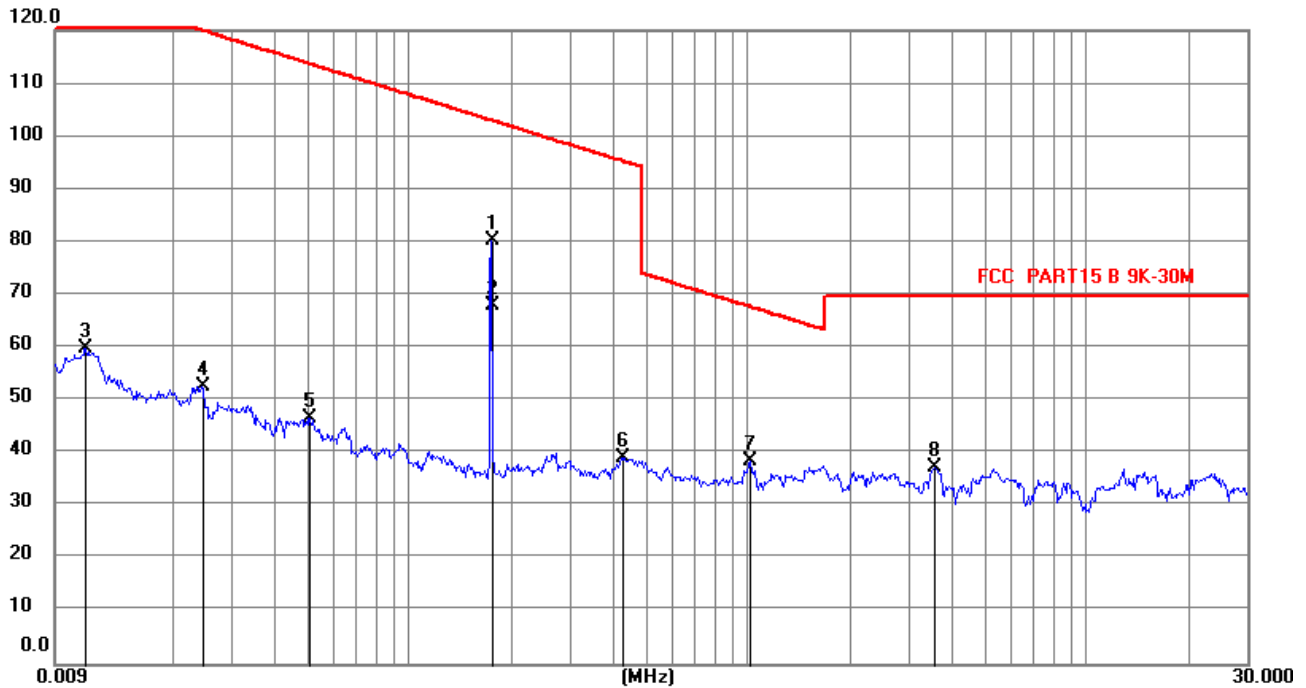


**Measurement data:**

**Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80**

**Limit dBuV/m @3m = Limit dBuV/m @30m + 40**

**9 kHz~30 MHz**



No.	Frequency (MHz)	Reading ( )	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.1753	70.56	9.77	80.33	102.68	-22.35	peak	P
2	0.1753	58.33	9.77	68.10	102.68	-34.58	AVG	P
3	0.0111	49.69	10.03	59.72	126.51	-66.79	peak	P
4	0.0245	42.42	10.28	52.70	119.68	-66.98	peak	P
5	0.0509	36.87	9.80	46.67	113.36	-66.69	peak	P
6	0.4264	29.38	9.76	39.14	95.00	-55.86	peak	P
7	1.0174	28.77	9.79	38.56	67.47	-28.91	peak	P
8	3.5712	27.51	9.87	37.38	69.53	-32.15	peak	P

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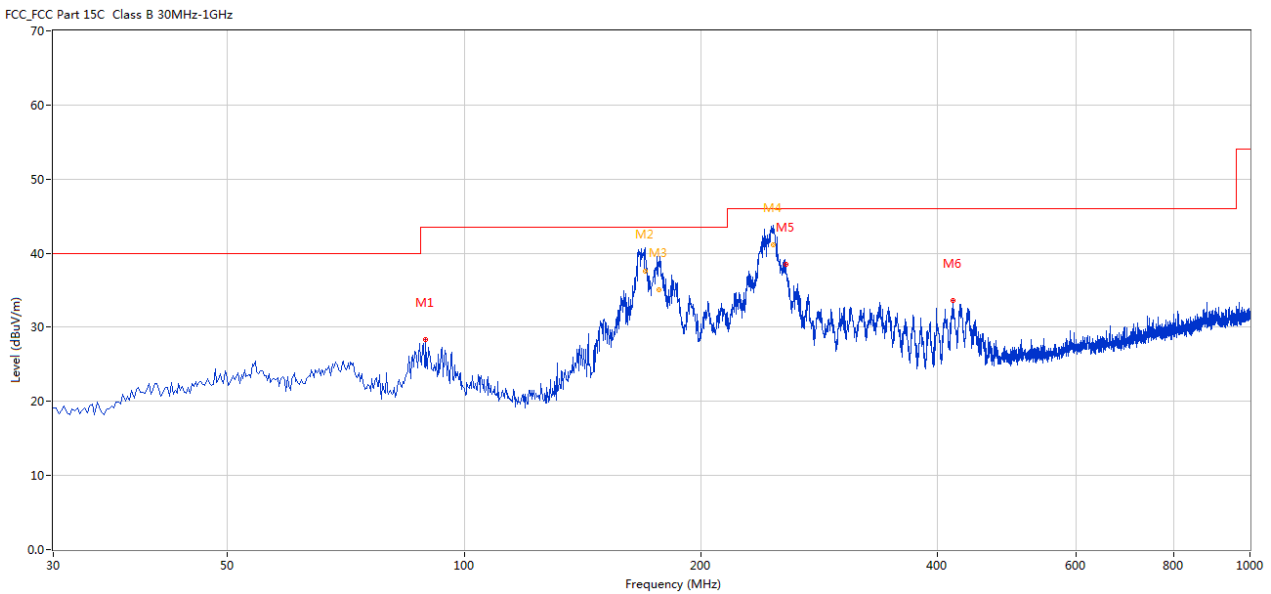
**A. General Radiated Emission Data**

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

EUT set Condition: Keep 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	89.398	28.37	-15.32	43.5	15.13	Peak	346.00	200	Horizontal	Pass
2	169.953	40.67	-16.03	43.5	2.83	Peak	339.00	119	Horizontal	Pass
2*	169.953	37.51	-16.03	43.5	5.99	QP	339.00	119	Horizontal	Pass
3	177.198	39.23	-15.66	43.5	4.27	Peak	140.00	173	Horizontal	Pass
3*	177.198	35.06	-15.66	43.5	8.44	QP	140.00	173	Horizontal	Pass
4	247.188	45.27	-12.10	46.0	0.73	Peak	271.00	126	Horizontal	Pass
4*	247.188	41.15	-12.10	46.0	4.85	QP	271.00	126	Horizontal	Pass
5	256.681	38.49	-11.98	46.0	7.51	Peak	274.00	100	Horizontal	Pass
6	418.873	33.64	-8.26	46.0	12.36	Peak	88.00	100	Horizontal	Pass

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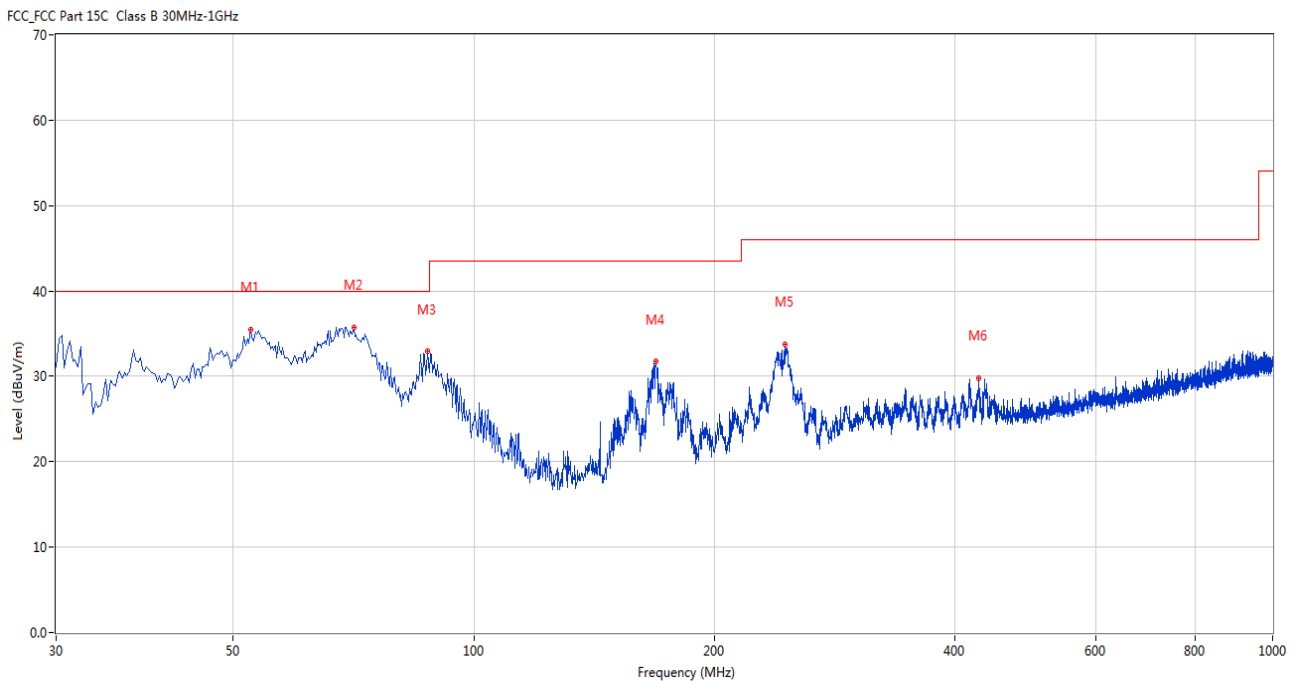
**B. General Radiated Emission Data**

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

EUT set Condition: Keep 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	52.547	35.43	-11.46	40.0	4.57	Peak	329.00	100	Vertical	Pass
2	70.730	35.72	-15.96	40.0	4.28	Peak	341.00	100	Vertical	Pass
3	87.458	33.01	-15.72	40.0	6.99	Peak	76.00	200	Vertical	Pass
4	169.160	31.71	-16.10	43.5	11.79	Peak	64.00	200	Vertical	Pass
5	245.529	33.78	-12.21	46.0	12.22	Peak	118.00	200	Vertical	Pass
6	428.328	29.77	-8.07	46.0	16.23	Peak	360.00	200	Vertical	Pass

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## 7.0 20dB Bandwidth Testing

### 7.1 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

### 7.3 Test Data

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.357	--	Pass

Refer to attached plots:

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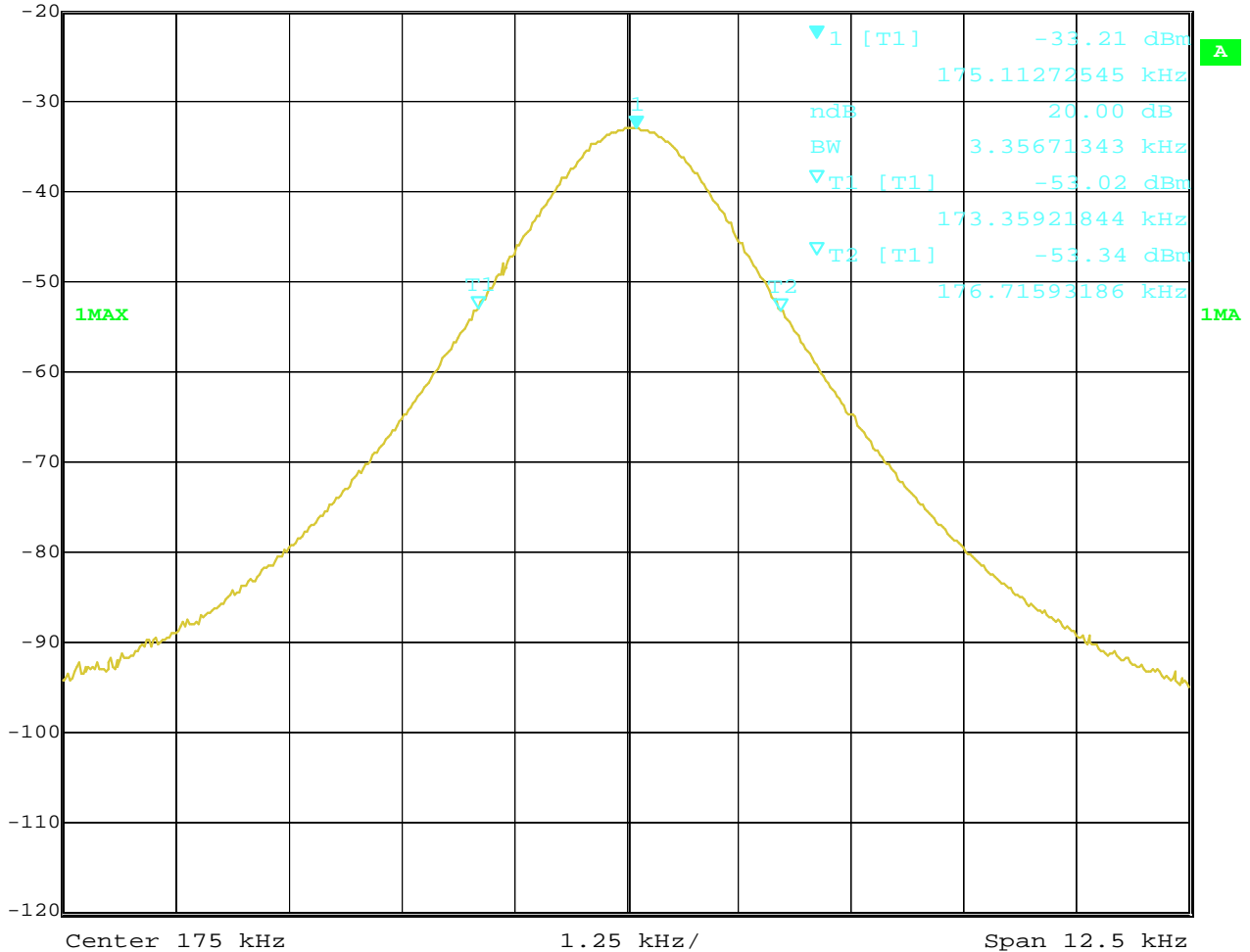
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20dB Bandwidth



Ref Lvl	Marker 1 [T1 ndB]	RBW	1 kHz	RF Att	10 dB
-20 dBm	ndB 20.00 dB	VBW	3 MHz		
	BW 3.35671343 kHz	SWT	150 ms	Unit	dBm



Date: 6.JUL.2023 17:47:12

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## 8.0 Antenna Requirement

### 8.1 Standard Applicable

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

### 8.2 Antenna Connected constructions

The antenna is Inductive Loop Antenna. The antenna gain is 0dBi. So it meets the requirement of 15.203

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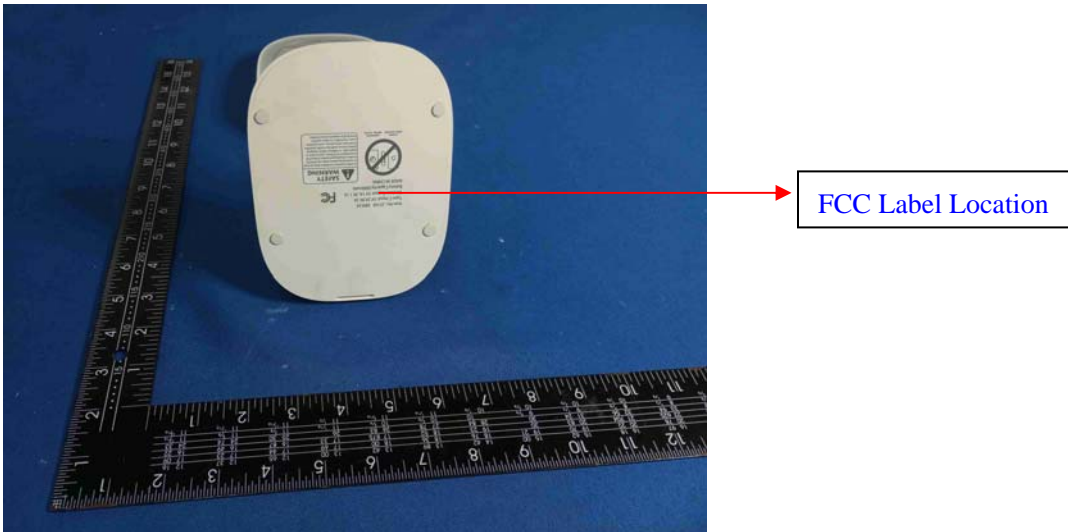


## 9.0 FCC ID Label

### FCC ID: 2APYY-LC0110

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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**10.0 Photo of testing**

10.1 Conducted test View



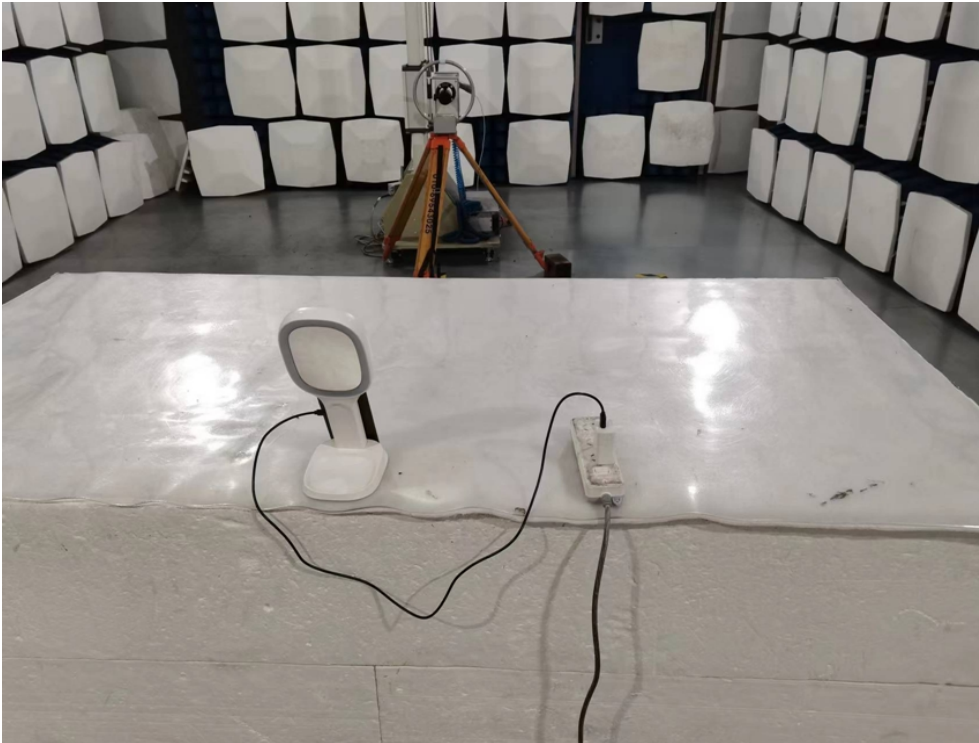
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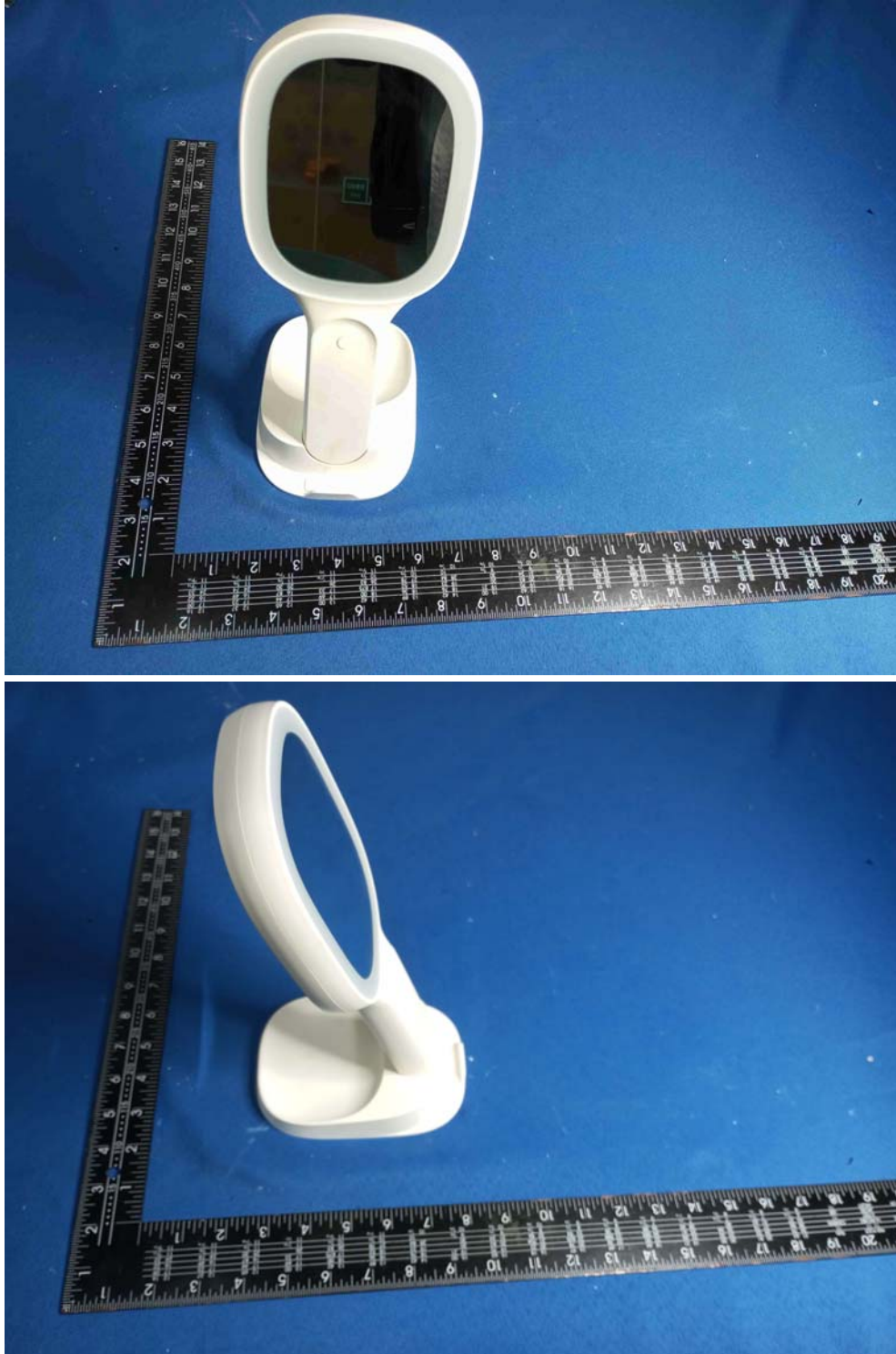
10.2 Radiated emission test view



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Photographs – EUT

Outside View



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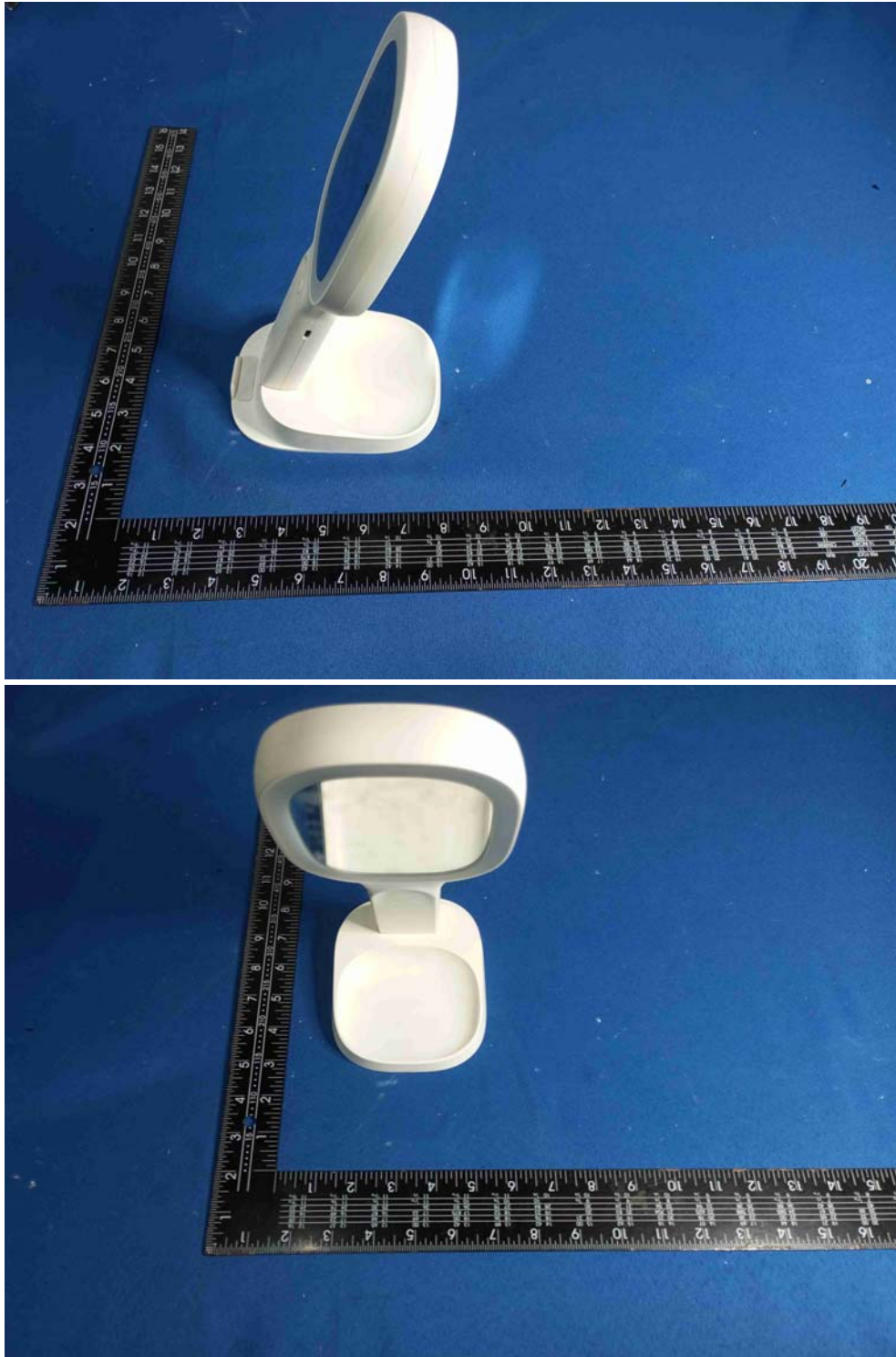
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Outside View



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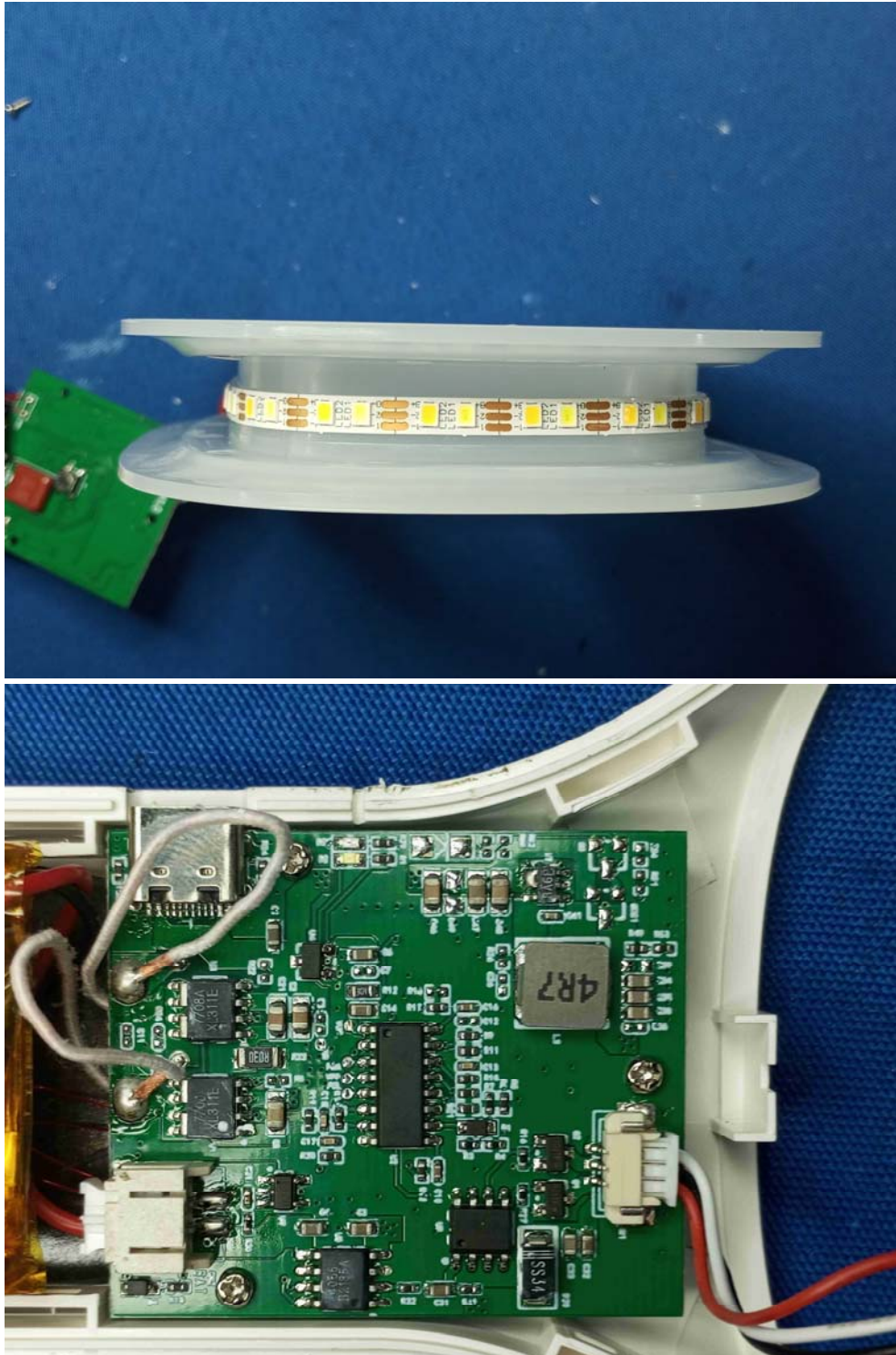
Inside View



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Inside View

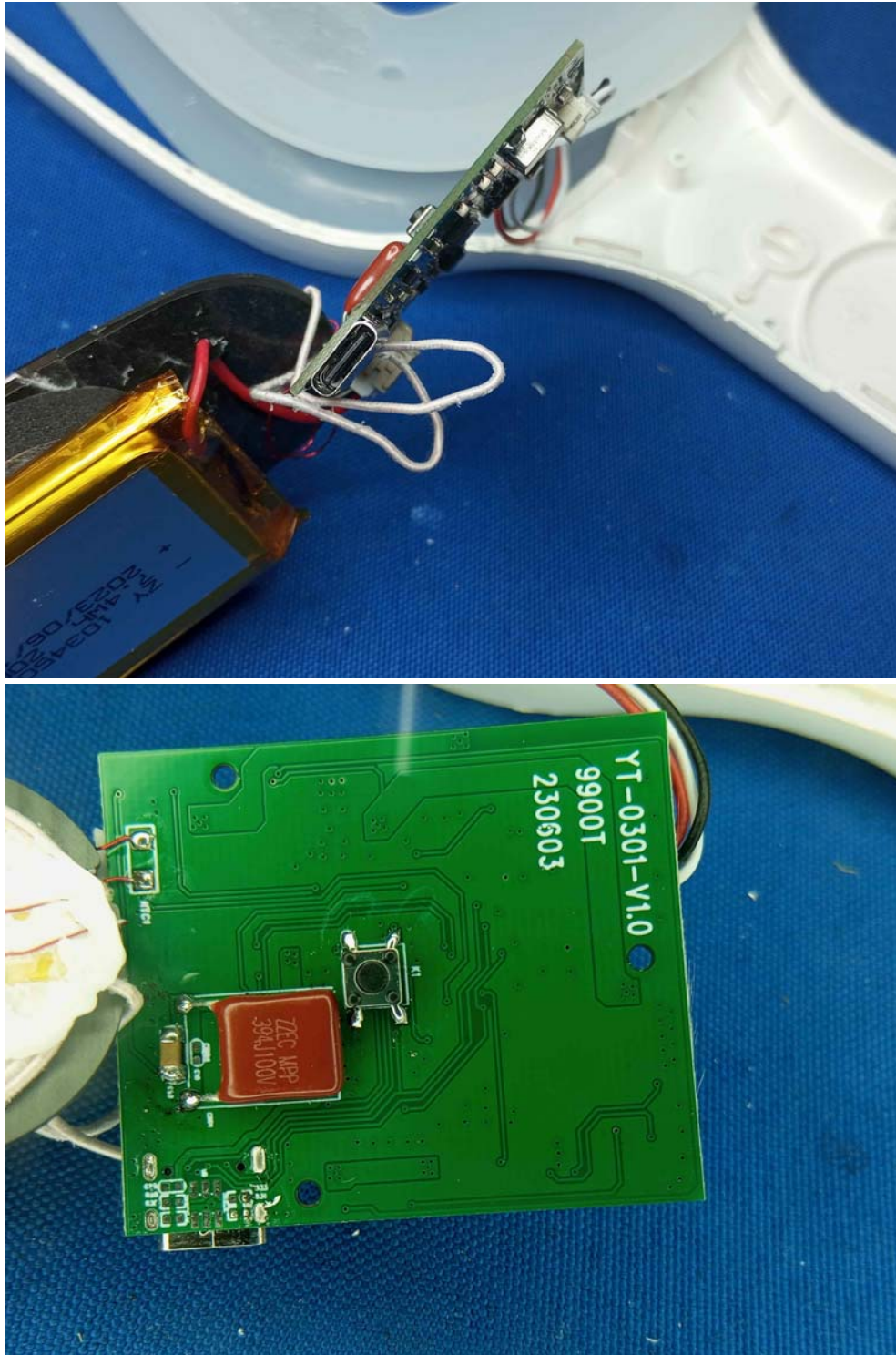


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Inside View



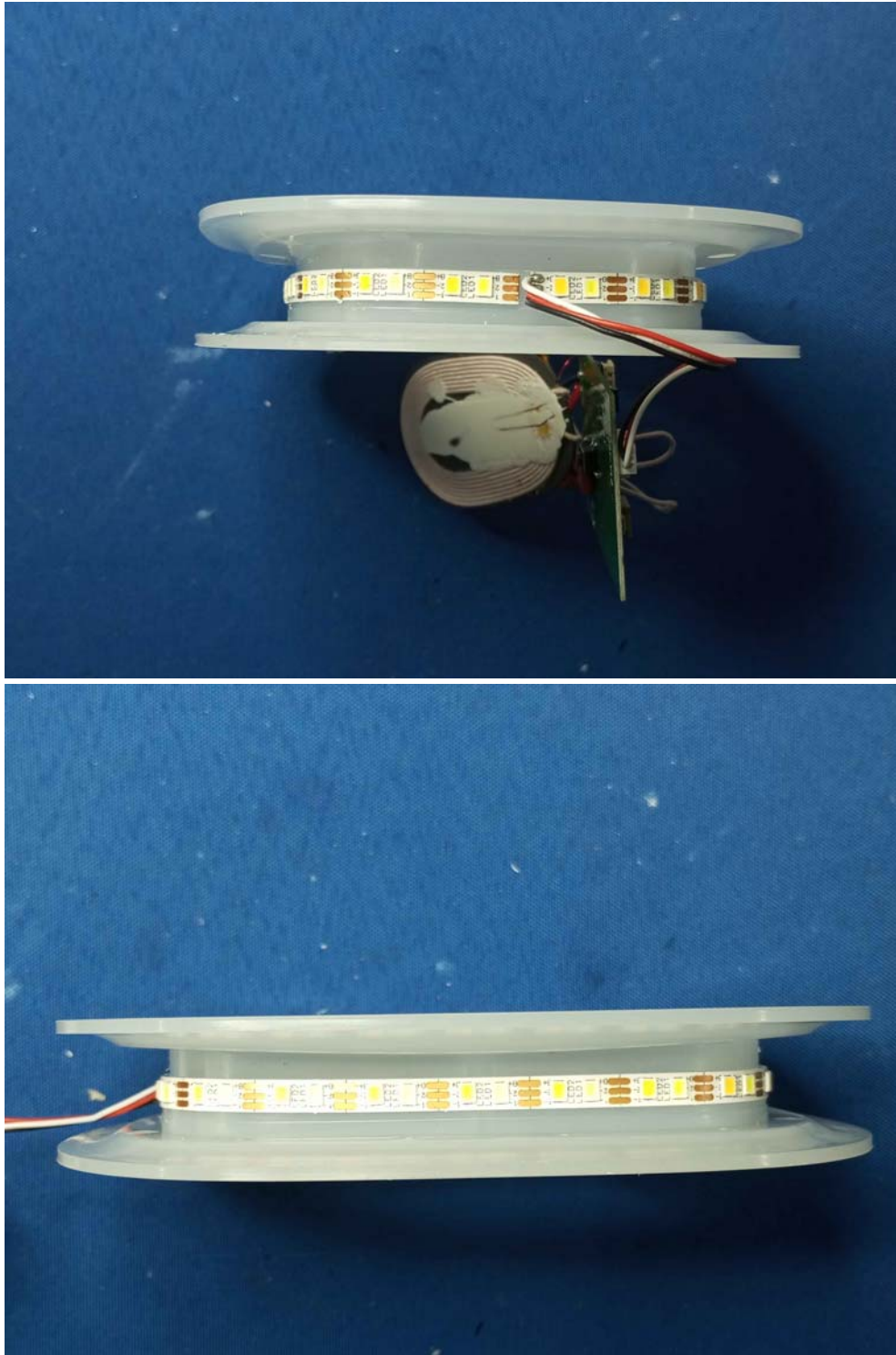
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Inside View

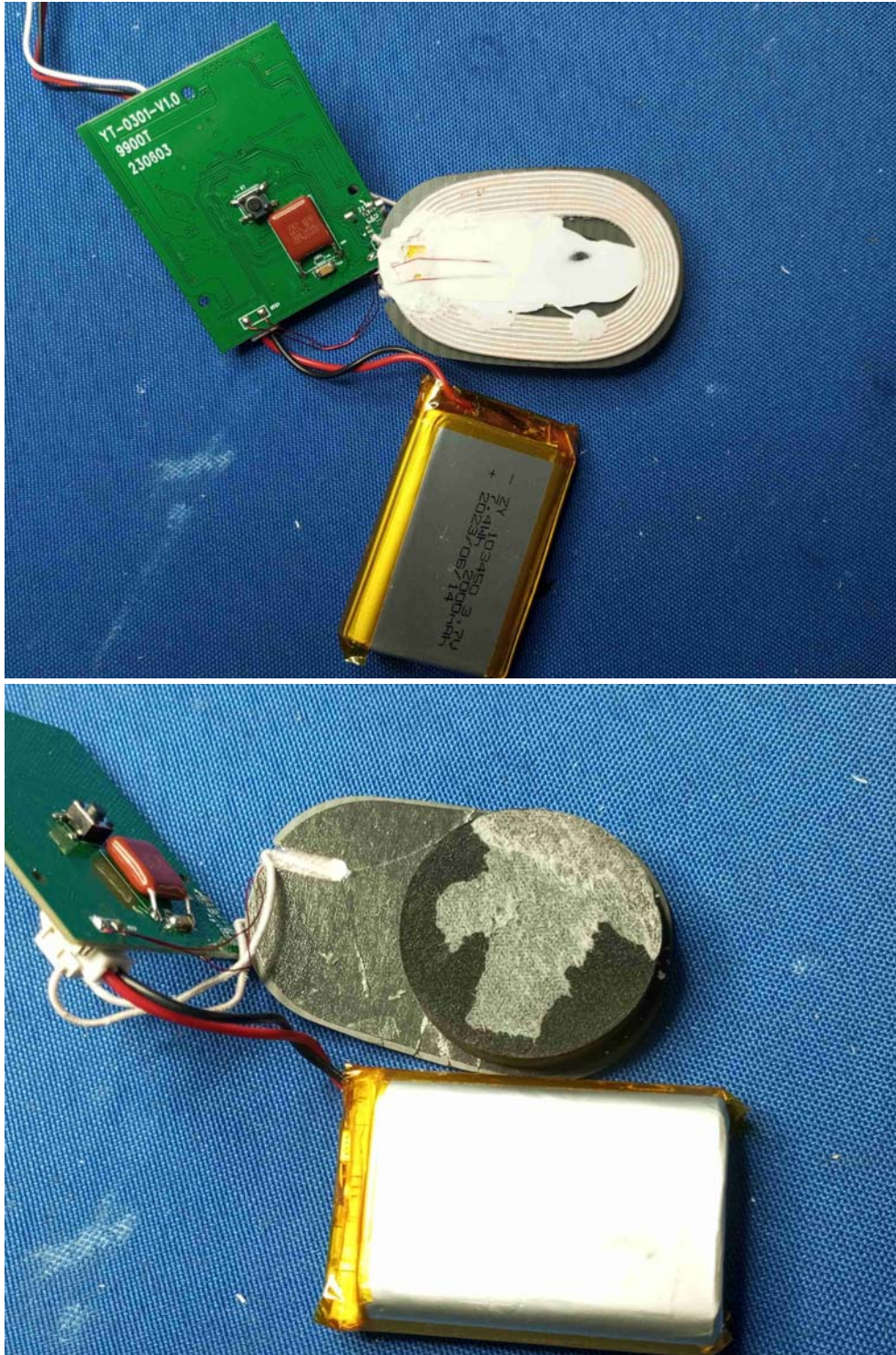


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Inside View



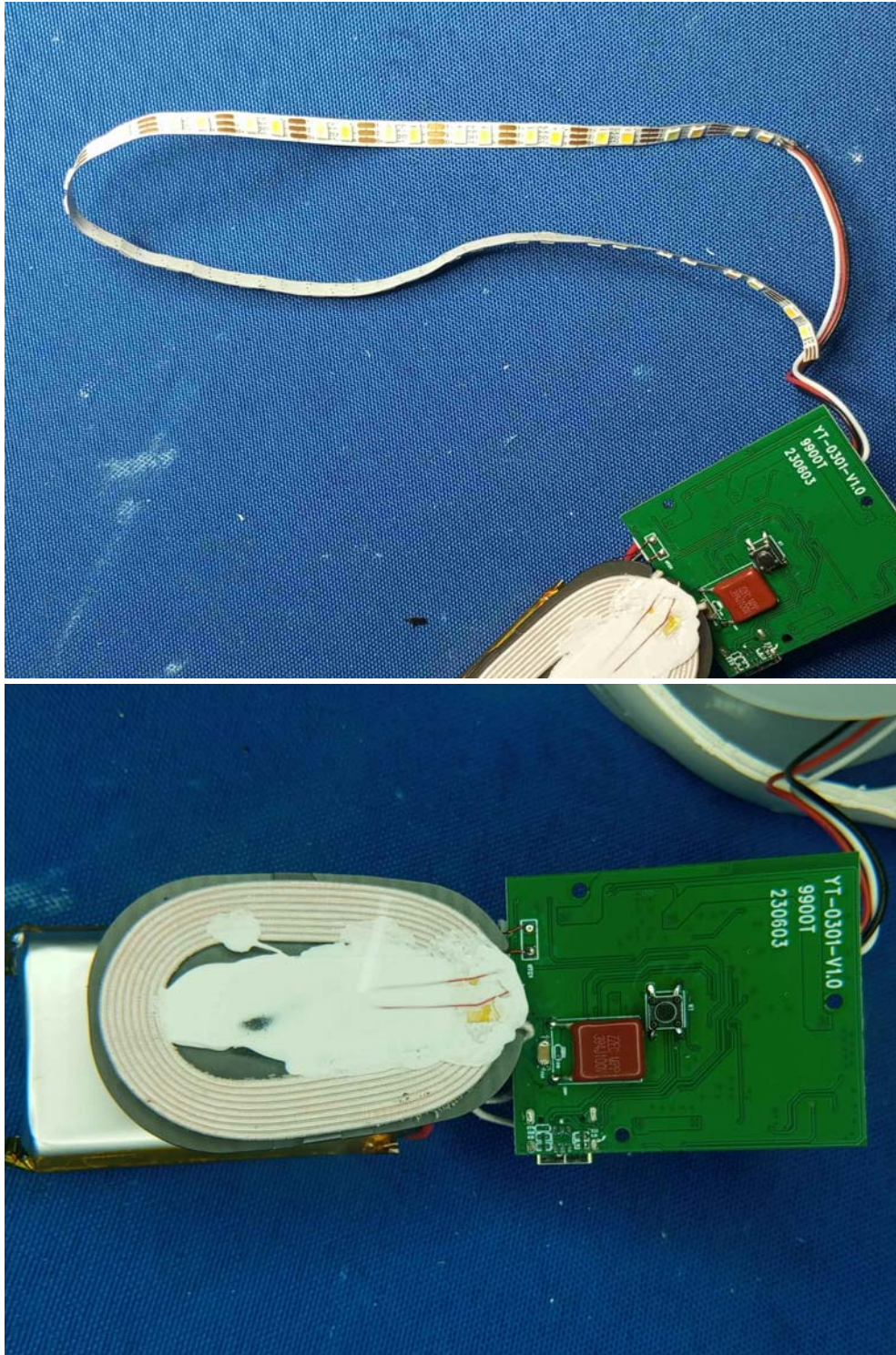
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Inside View



**-End of the report-**

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