



EMC TEST REPORT

Product Name: Waffle HOME

Model Number: WFL001GRA-GLB, WFL001MNT-GLB, WFL001PUR-GLB

FCC ID: 2BW9U-WFL001

Issued For : Just Waffle Inc

2810 North Church Street 89975 Wilmington, DE, 19802 US

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street,
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT26H274EM04

Sample Received Date: Jul. 21, 2026

Date of Test: Jul. 21, 2026 ~ Sep. 17, 2026

Date of Issue: Sep. 17, 2026

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TEST REPORT CERTIFICATION

Applicant: Just Waffle Inc

Address: 2810 North Church Street 89975 Wilmington, DE, 19802 US

Manufacturer: Just Waffle Inc

Address: 2810 North Church Street 89975 Wilmington, DE, 19802 US

Product Name: Waffle HOME

Trademark: WAFFLE

Model Number: WFL001GRA-GLB, WFL001MNT-GLB, WFL001PUR-GLB

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	PASS

Prepared by:

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Terry Zhao
Engineer

Approved by:

Vita Li

Vita Li
Technical Director





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Revision History

Rev.	Issue Date	Revisions
00	Sep. 17, 2026	Initial Issue

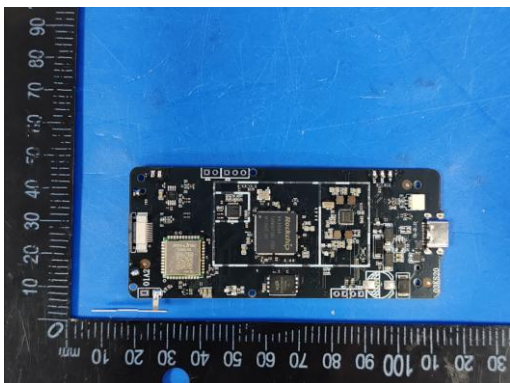
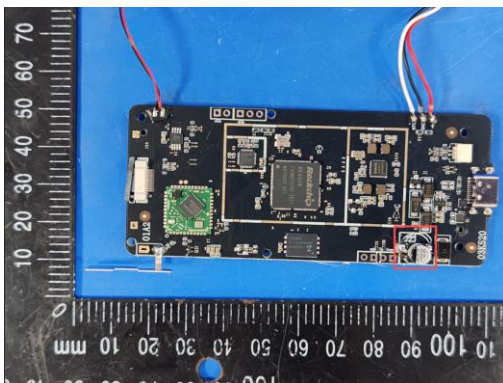
1. TEST SUMMARY

EMC Emission				
Standard	Test Item	Limit	Judgement	Remark
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	Conducted Emissions	Class B	PASS	
	Radiated Emissions Below 1GHz	Class B	PASS	

Note:

- 1 "N/A" denotes test is not applicable in this Test Report
- 2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.
- 3 Base on the original report number LGT26G129EM04, An additional capacitor was added without affecting the RF performance. From a technical perspective, the CE and RE Below 1GHz test items were re-tested.

Detail of change as below:

Original project	New project	Differences
		A capacitor has been added at the position circled in red in the new project, and this will not affect the radio frequency.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

Test Item	Measurement Frequency Range MHz	Uncertainty dB
Conducted Emissions at AC mains power port	0.009 ~ 30	2.80
Radiated Emissions	0.009 ~ 30	2.16
Radiated Emissions	30 ~ 1000	4.61
Radiated Emissions	1000 ~ 6000	5.10
Radiated Emissions	6000 ~ 18000	5.49
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. The measurement uncertainty is not included in the test result.		



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Waffle HOME
Test Model Number:	WFL001GRA-GLB
Series Number:	WFL001MNT-GLB, WFL001PUR-GLB
Model Difference:	The product comes in three color options, here, the three color variants of the product are referred to by the colors of the handset: Graphite black, Mint green, and purple. These variants differ only in color; all other hardware and software components are identical.
Maximum operating frequency:	>108MHz
Rating:	Input: DC 5V 1A
Battery:	Capacity: 1050mAh Rated Voltage: 3.7V
Test voltage:	AC 120V/60Hz for adapter Battery: 3.7V
Hardware Version:	03KS20
Software Version:	V01
Connecting I/O Port(s):	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The EUT information in the table of section 2.1 is provided by the applicant.
3. LGT is not responsible for wrong test results due to incorrect information (e.g., max. internal operating frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
4. LGT is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
5. Sample source: sent by customer.
6. Base on the difference of all models, WFL001GRA-GLB was selected as a typical model for all necessary tests performed in this report.



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operating mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	On, Charging+Operating

Conducted Emission Test	
Final Test Mode	Description
Mode 1	On, Charging+Operating

For Radiated Emission	
Final Test Mode	Description
Mode 1	On, Charging+Operating

Note: For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.

2.3 DESCRIPTION OF THE SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
USB-C to USB-C Cable	N/A	N/A	N/A	1.5m

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	ASUS	A20045	N/A	Input: 100-240V 50/60Hz 1.6A Output: 5V3A or 9V3A or 12V3A or 15V5A or 20V4.5A
Mobile phone	TANK	OB-A93	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.4 MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESCI	100458	2026-04-21	2027-04-20
LISN	COM-POWER	LI-115	02032	2026-03-03	2027-03-02
LISN	SCHWARZBECK	NNLK 8122	00160	2026-03-03	2027-03-02
LISN	EMTRACE	PWL-50-3200	00317	2026-03-03	2027-03-02
LISN	EMTRACE	PVDC-150R-200	00353	2026.03.03	2027-03-02
ISN	FCC	T4-02	91317	2026-03-02	2027-03-01
ISN	SCHWARZBECK	NTFM 8158	00303	2026-03-02	2027-03-01
Transient Limiter	EMTRACE	PL00903	2318	2026-03-03	2027-03-02
Temperature & Humidity	BT-3	JINGCHUAG	N.A	2026-03-05	2027-03-04
Testing Software	SKET	EMC-I	V1.4.0.3	N/A	N/A
Radiated Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2026-03-02	2027-03-01
Spectrum Analyzer	Keysight	N9020A	MY50530994	2026-03-02	2027-03-01
Spectrum Analyzer	Keysight	N9010B	MY60242508	2026-03-03	2027-03-02
Active loop Antenna	ETS	6502	00049544	2025-03-11	2028-03-10
Trilog Broadband Antenna	SCHWARZBECK	VULB 9168	01447	2024-05-17	2027-05-16
Horn Antenna	SCHWARZBECK	3115	10SL0060	2025-03-10	2028-03-09
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2026-03-02	2027-03-01
Pre-amplifier (1-26.5G)	Agilent	8449B	3008A4722	2026-03-02	2027-03-01
Temperature & Humidity	BT-3	JINGCHUANG	N.A	2026-03-05	2027-03-04
Testing Software	SKET	EMC-I	V1.4.0.3	N/A	N/A



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	Class A		Class B	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor
Margin Level = Measurement Value - Limit Value

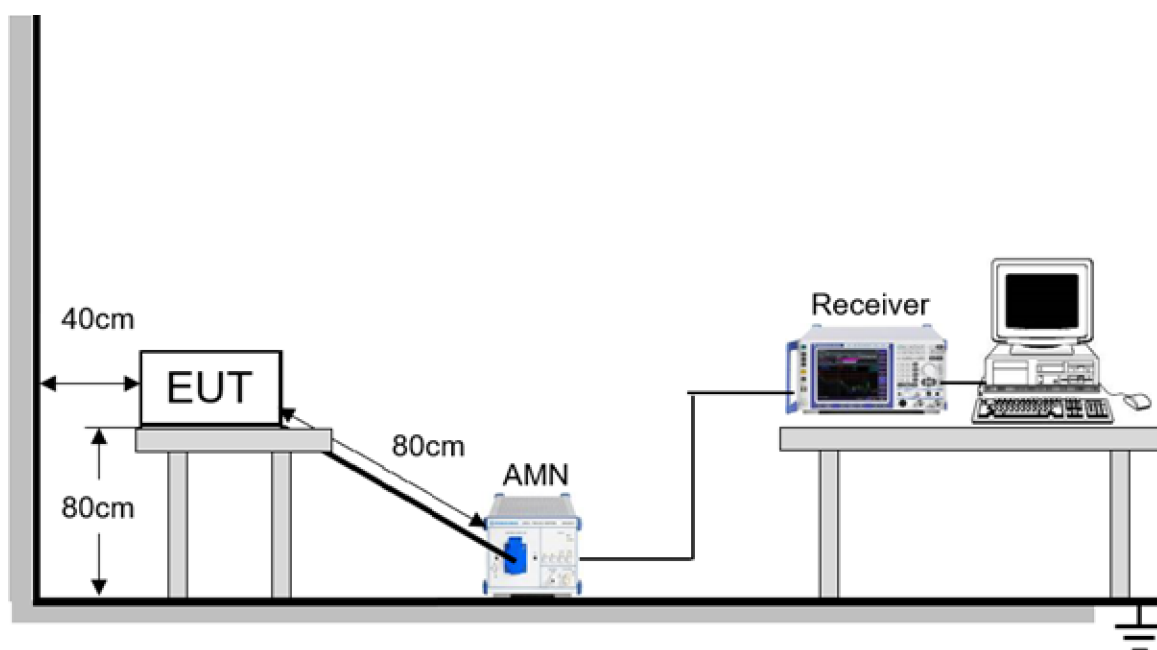
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT Test Photos.

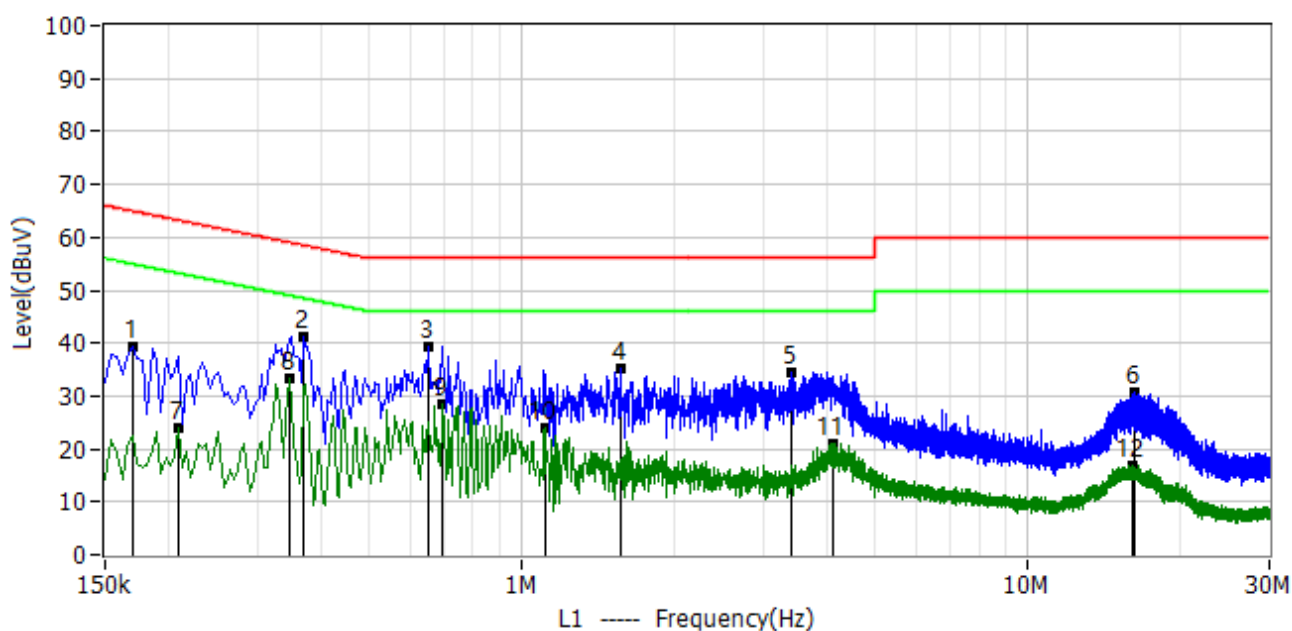
3.1.3 TEST SETUP





3.1.4 TEST RESULTS

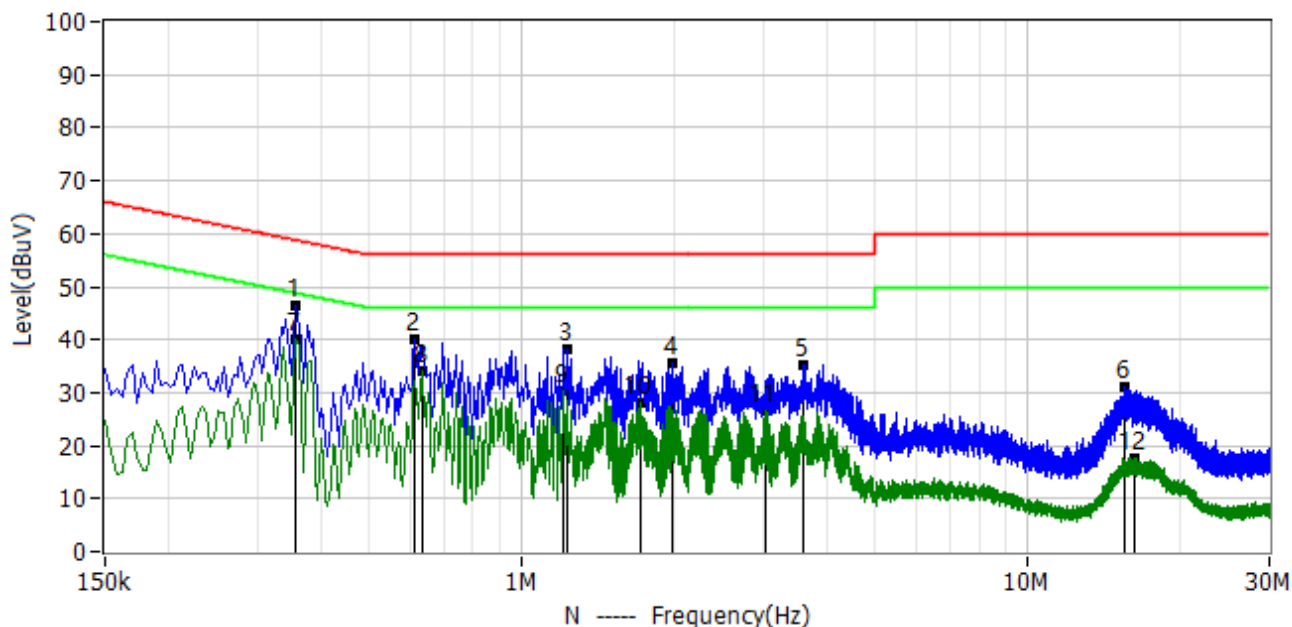
Project: LGT26H274	Test Engineer: Bill Chen
EUT: Waffle HOME	Temperature: 26.5°C
M/N: WFL001GRA-GLB	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Date: 2026-09-17
Test Mode: On, Charging+Operating	
Note: AC Mains port	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.170	28.54	10.63	39.17	64.96	-25.79	QP	L1
2*	0.370	30.74	10.63	41.37	58.50	-17.13	QP	L1
3*	0.654	28.66	10.64	39.30	56.00	-16.70	QP	L1
4*	1.566	24.49	10.78	35.27	56.00	-20.73	QP	L1
5*	3.410	23.65	10.94	34.59	56.00	-21.41	QP	L1
6*	16.206	19.11	11.47	30.58	60.00	-29.42	QP	L1
7*	0.210	13.50	10.63	24.13	53.21	-29.07	AV	L1
8*	0.346	22.86	10.63	33.49	49.06	-15.57	AV	L1
9*	0.698	17.68	10.64	28.32	46.00	-17.68	AV	L1
10*	1.110	13.18	10.68	23.86	46.00	-22.14	AV	L1
11*	4.106	10.10	10.97	21.07	46.00	-24.93	AV	L1
12*	16.094	5.42	11.47	16.89	50.00	-33.11	AV	L1



Project: LGT26H274	Test Engineer: Bill Chen
EUT: Waffle HOME	Temperature: 26.5°C
M/N: WFL001GRA-GLB	Humidity: 45%RH
Test Voltage: AC 120V/60Hz	Test Date: 2026-09-17
Test Mode: On, Charging+Operating	
Note: AC Mains port	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.358	35.82	10.64	46.46	58.77	-12.31	QP	N
2*	0.614	29.46	10.64	40.10	56.00	-15.90	QP	N
3*	1.230	27.44	10.71	38.15	56.00	-17.85	QP	N
4*	1.974	24.58	10.87	35.45	56.00	-20.55	QP	N
5*	3.598	24.13	10.95	35.08	56.00	-20.92	QP	N
6*	15.570	19.44	11.48	30.92	60.00	-29.08	QP	N
7*	0.358	29.49	10.64	40.13	48.77	-8.65	AV	N
8*	0.634	23.36	10.65	34.01	46.00	-11.99	AV	N
9*	1.206	19.57	10.71	30.28	46.00	-15.72	AV	N
10*	1.714	17.13	10.82	27.95	46.00	-18.05	AV	N
11*	3.022	15.66	10.91	26.57	46.00	-19.43	AV	N
12*	16.178	6.10	11.50	17.60	50.00	-32.40	AV	N



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS

Below 1 GHz

Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Above 1 GHz

Frequency (MHz)	Class A		Class B	
	Field strength (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Note:

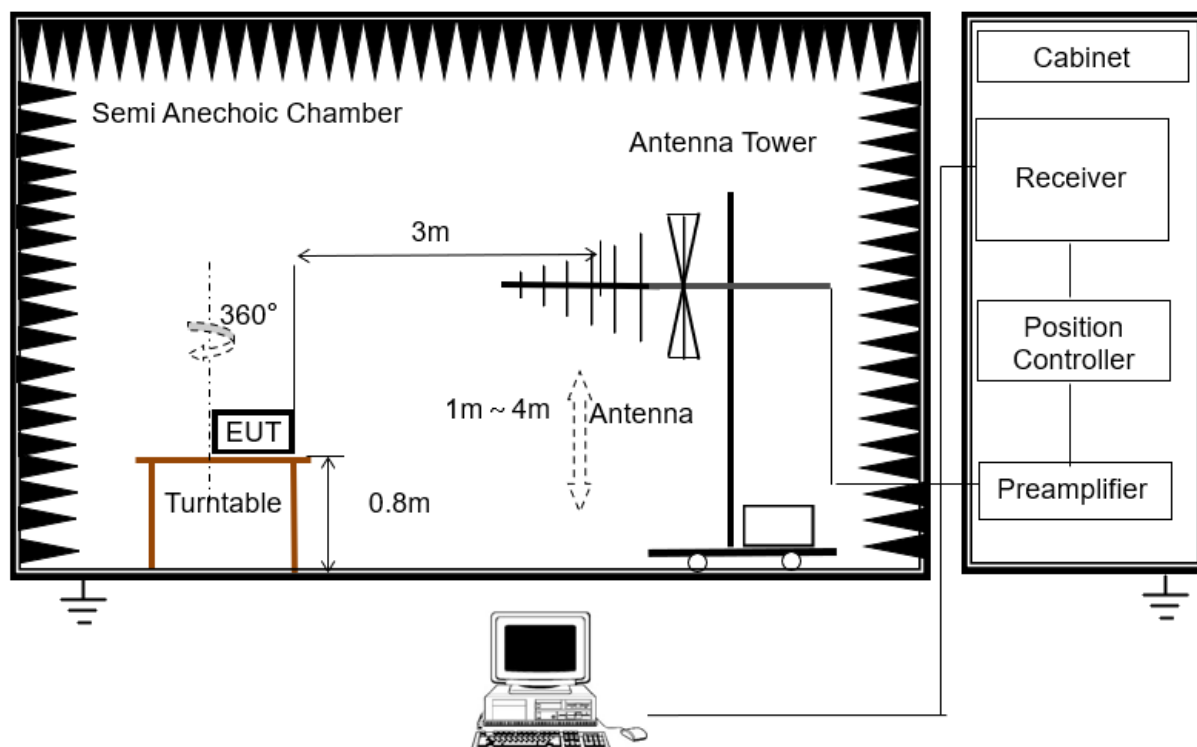
- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor,
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use),
 Margin Level = Measurement Value - Limit Value.

3.2.2 TEST PROCEDURE

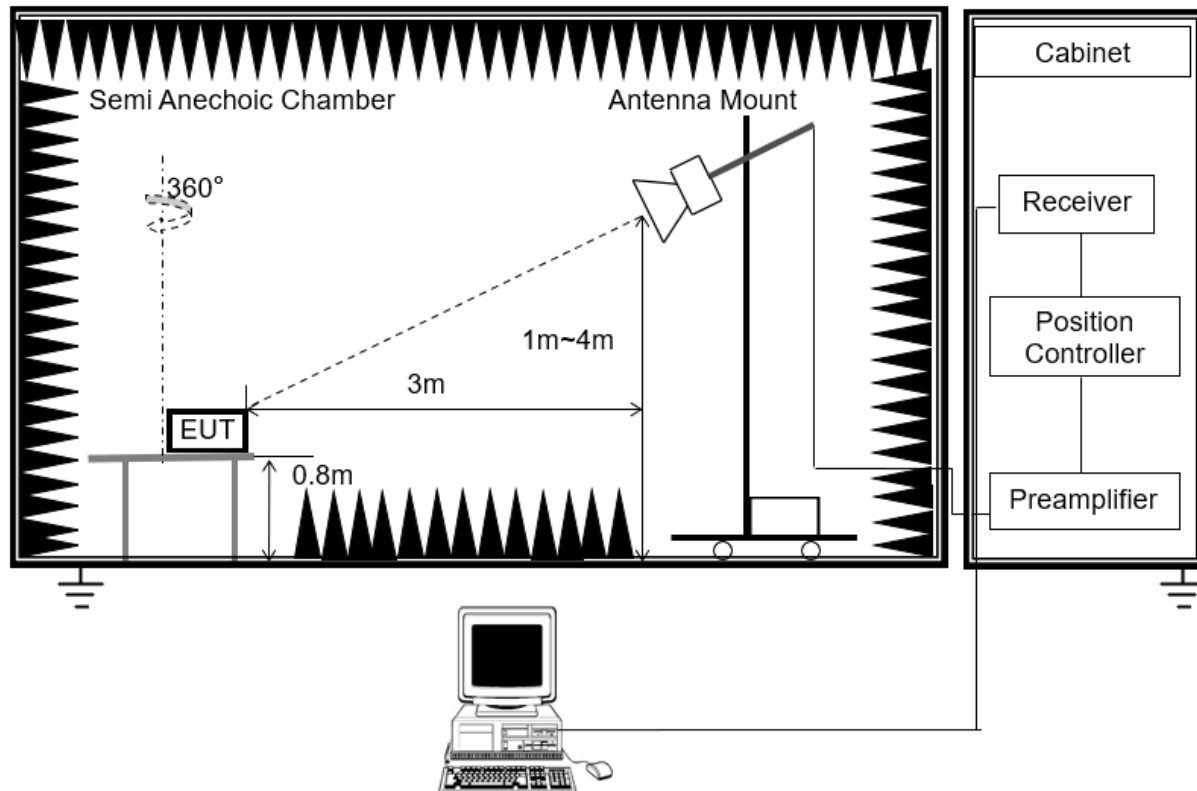
- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



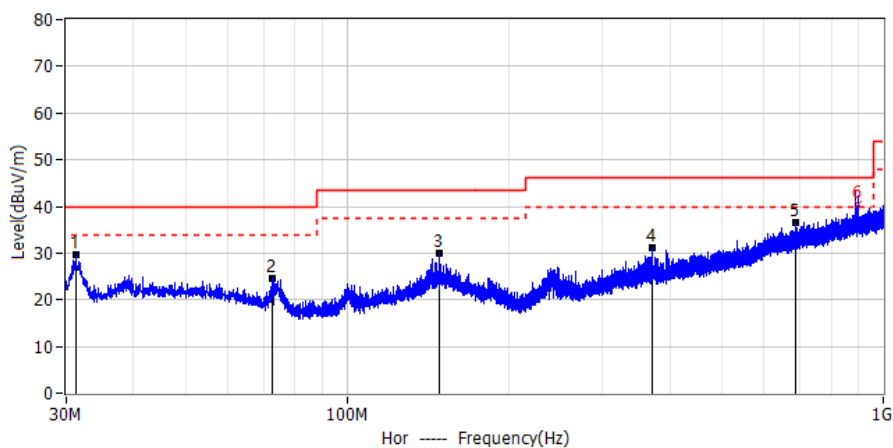
For the actual test configuration, please refer to Appendix I: Photographs of the Test Configuration



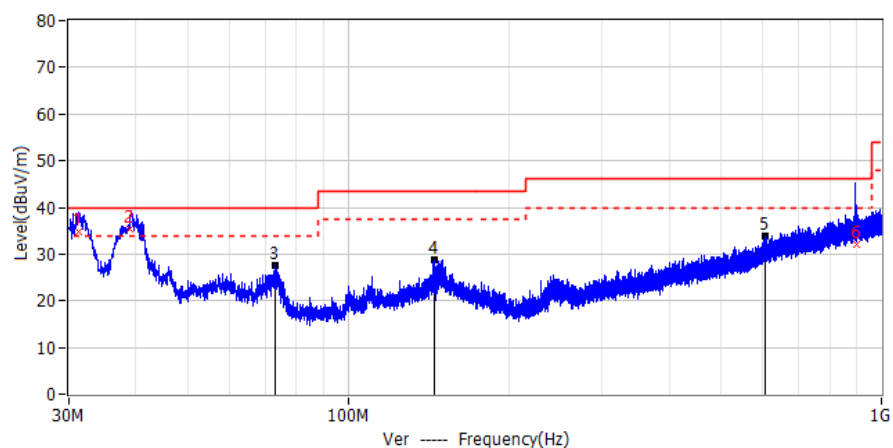
3.2.4 TEST RESULTS

Below 1 GHz

Project: LGT26H274	Test Engineer: zhangchengxiang
EUT: Waffle HOME	Temperature: 25.3°C
M/N: WFL001GRA-GLB	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Date: 2026-09-03
Test Mode: On, Charging+Operating	
Note:	



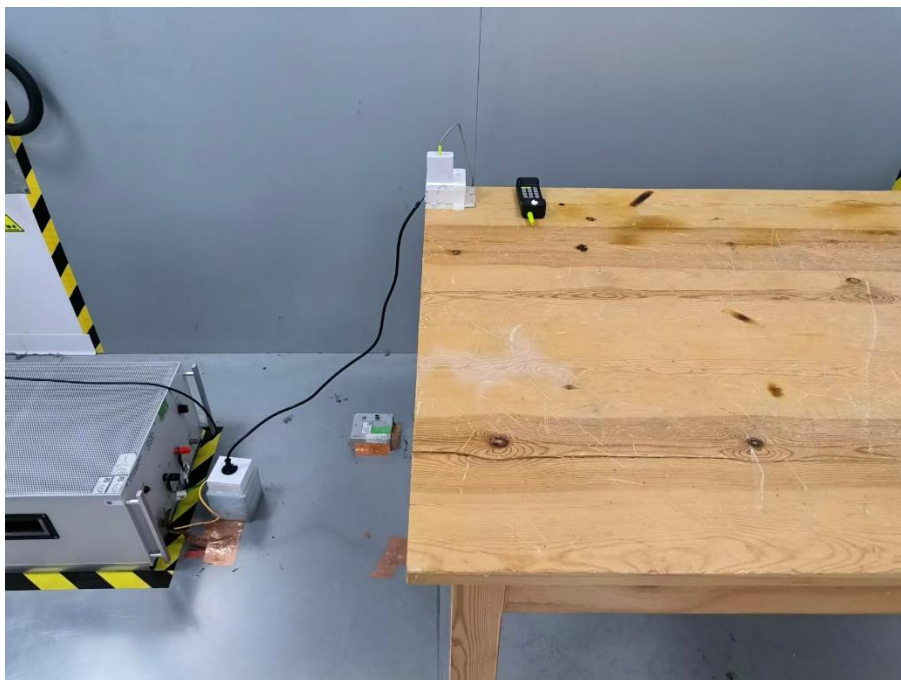
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	31.244	10.15	19.64	29.79	40.00	-10.21	QP	Hor
2*	72.730	7.19	17.38	24.57	40.00	-15.43	QP	Hor
3*	148.788	7.86	21.98	29.84	43.50	-13.66	QP	Hor
4*	370.744	6.85	24.23	31.08	46.00	-14.92	QP	Hor
5*	688.157	5.60	30.83	36.43	46.00	-9.57	QP	Hor
6	898.409	6.29	34.30	40.59	46.00	-5.41	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1	31.369	15.17	19.60	34.77	40.00	-5.23	QP	Ver
2	39.118	15.32	20.10	35.42	40.00	-4.58	QP	Ver
3*	73.177	10.21	17.29	27.50	40.00	-12.50	QP	Ver
4*	145.654	7.23	21.54	28.77	43.50	-14.73	QP	Ver
5*	606.876	4.20	29.51	33.71	46.00	-12.29	QP	Ver
6	897.841	-2.13	34.30	32.17	46.00	-13.83	QP	Ver

APPENDIX I - TEST SETUP

Set-up for Conducted Emission on AC Mains (CE)



Set-up for Radiated Emission (RE), Below 1GHz





APPENDIX II - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Photo 1

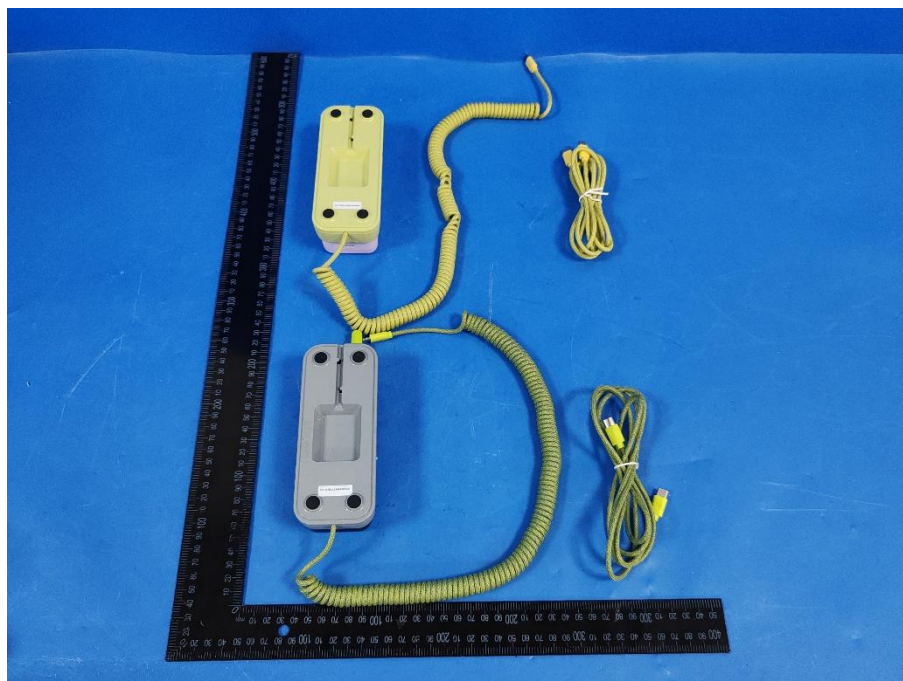


Photo 2



Photo 3



Photo 4

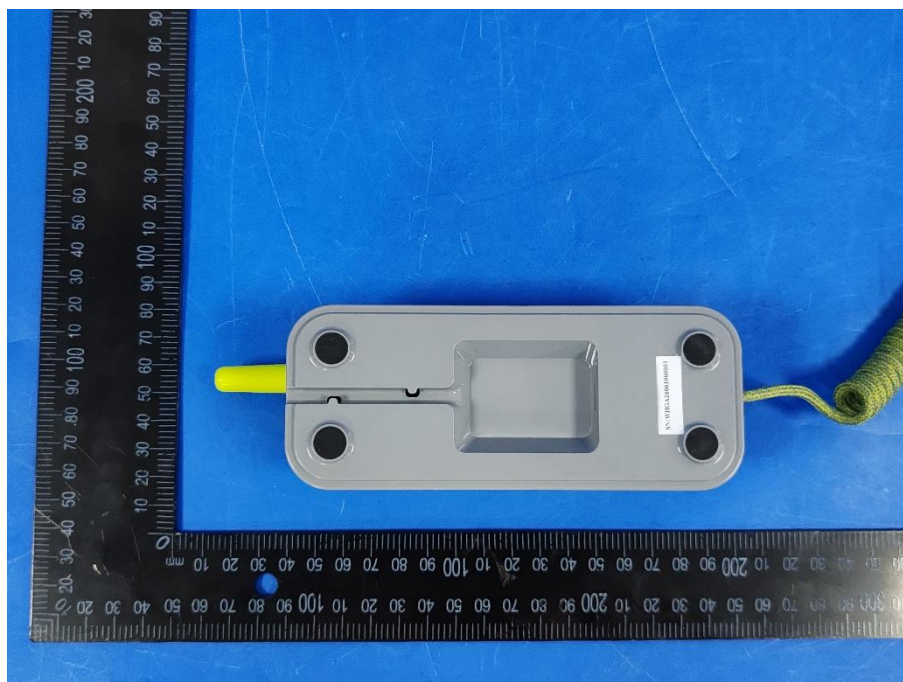


Photo 5



Photo 6

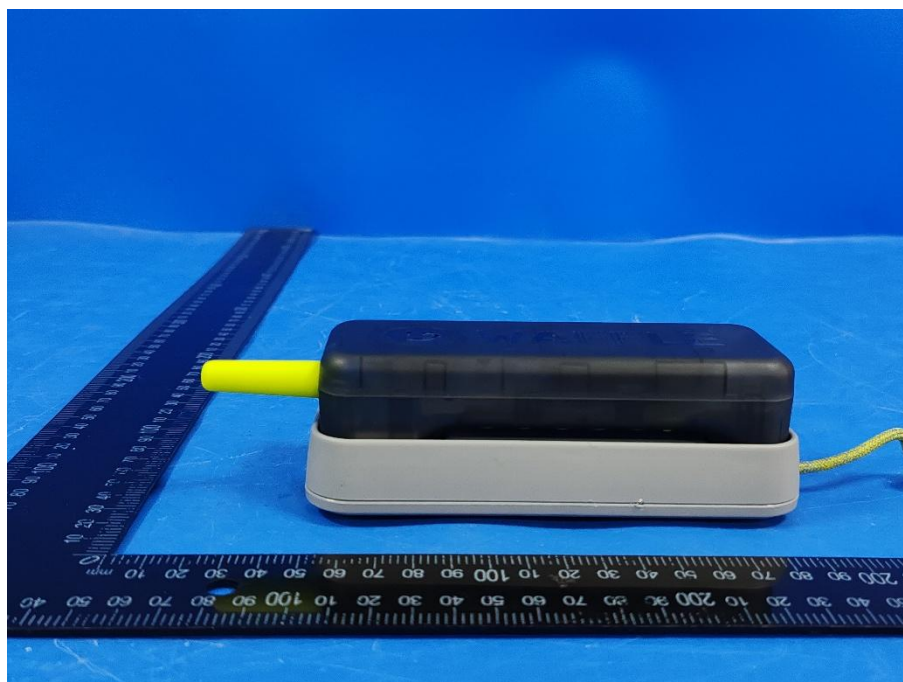


Photo 7

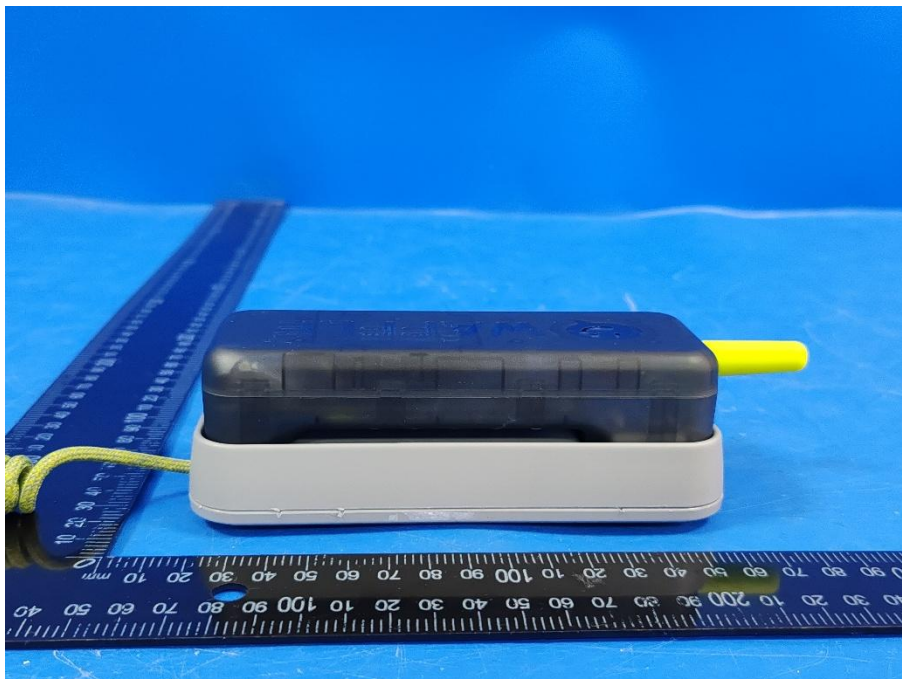


Photo 8

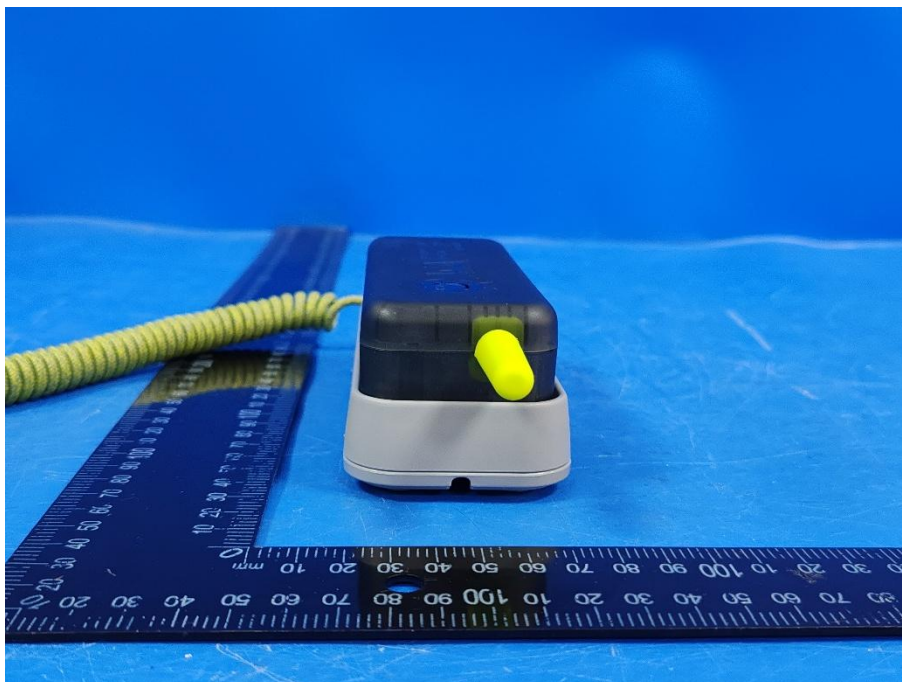


Photo 9

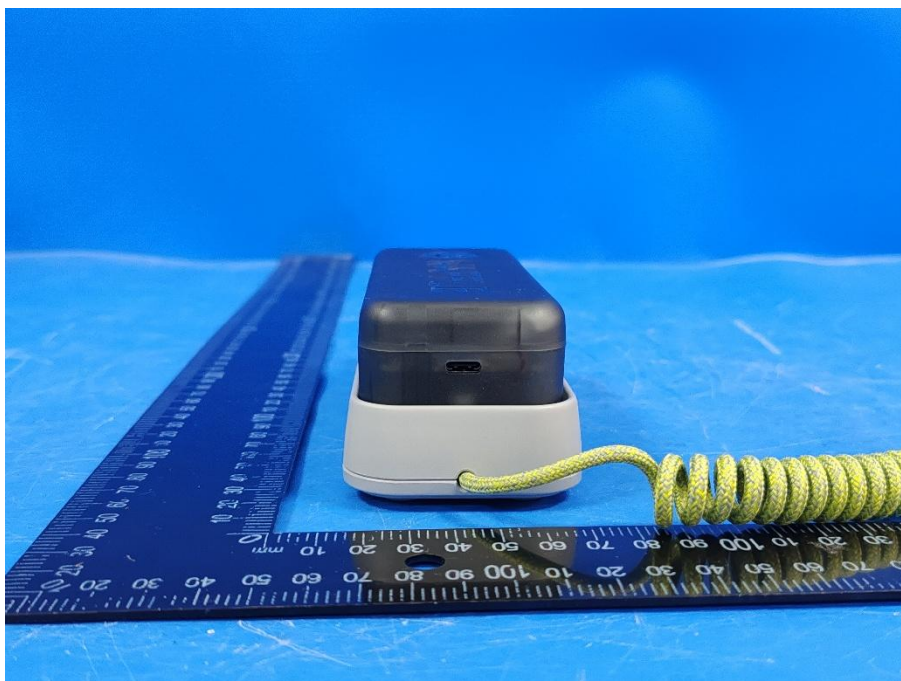


Photo 10



Photo 11

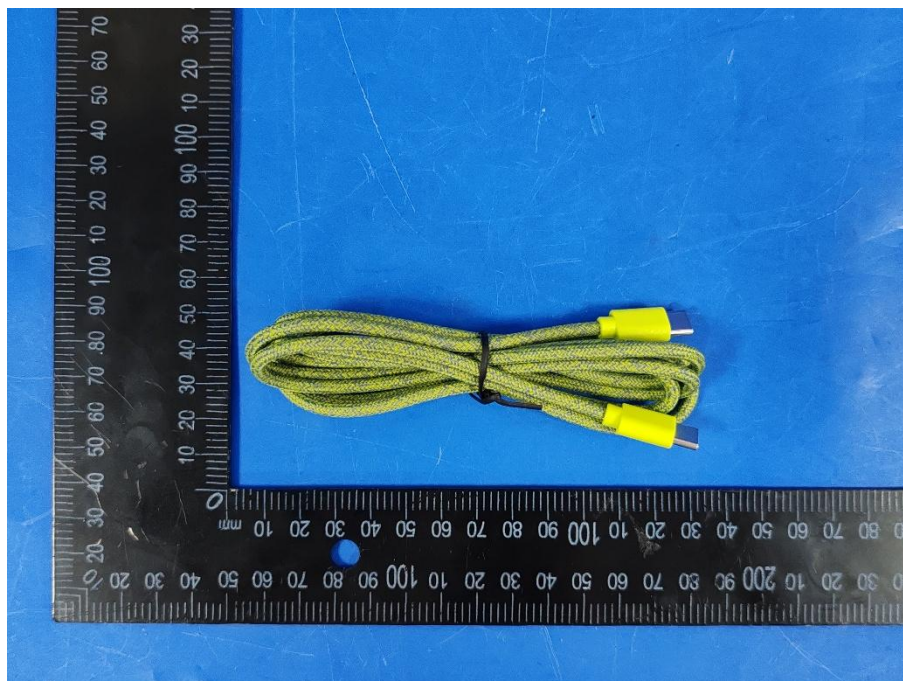


Photo 12

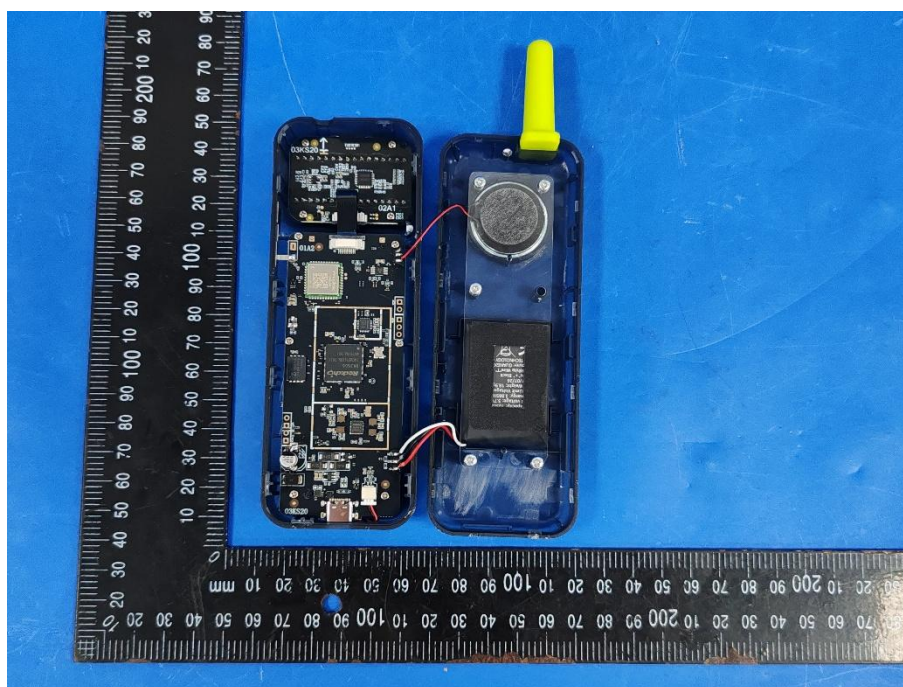


Photo 13



Photo 14

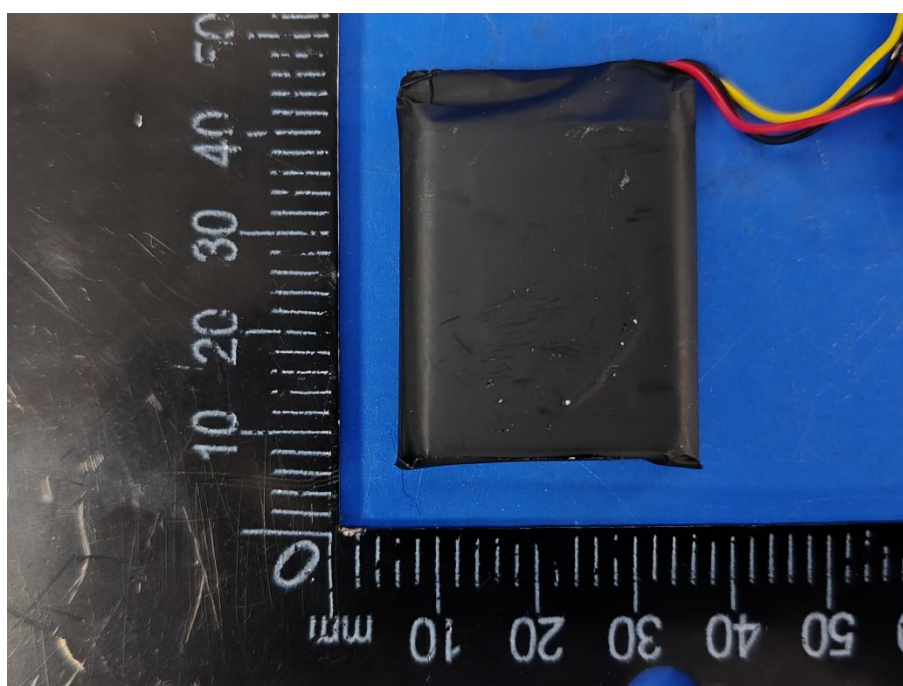


Photo 15

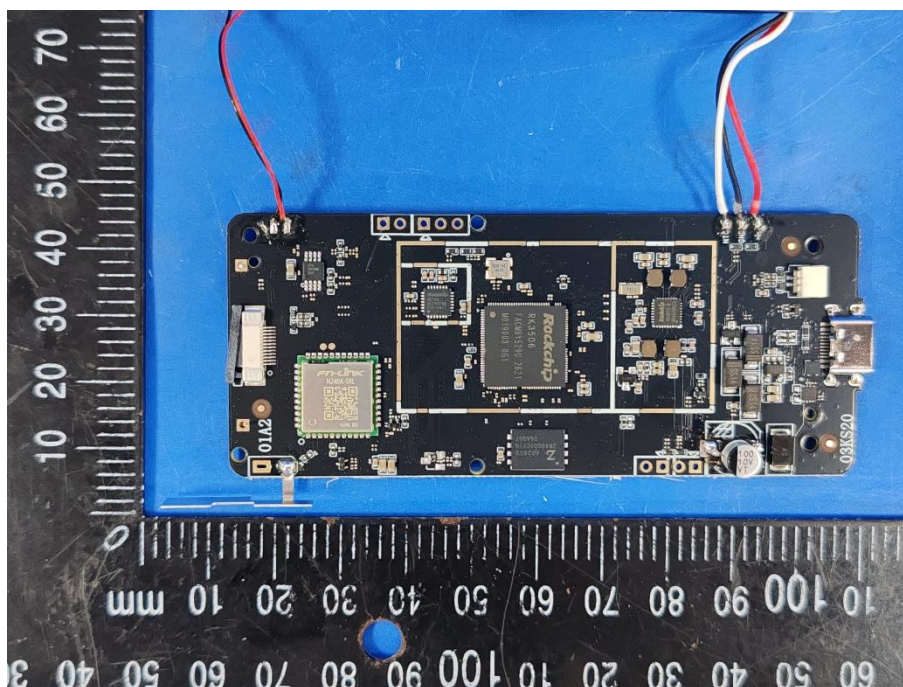


Photo 16

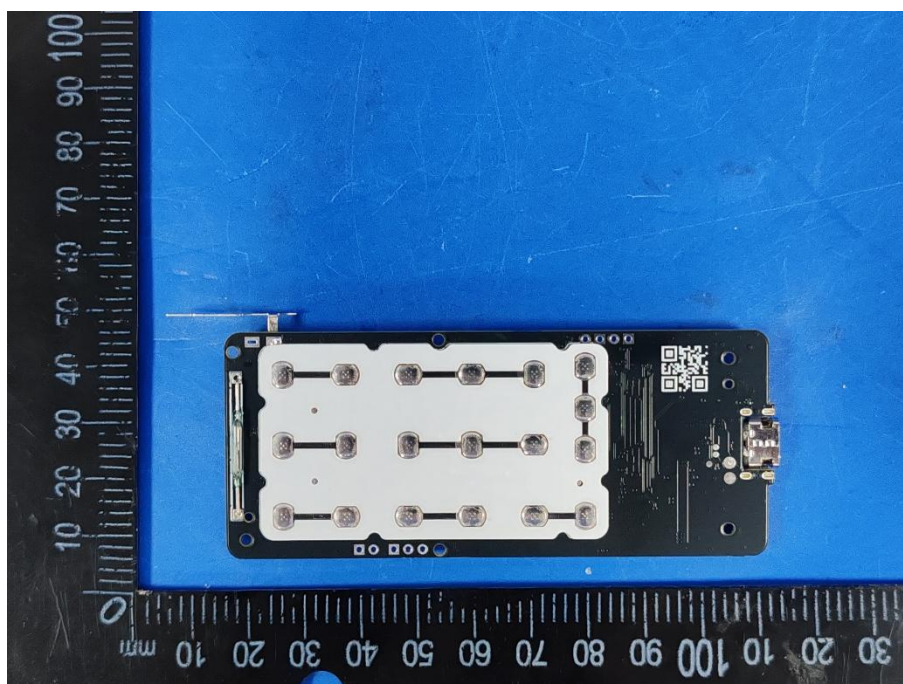


Photo 17

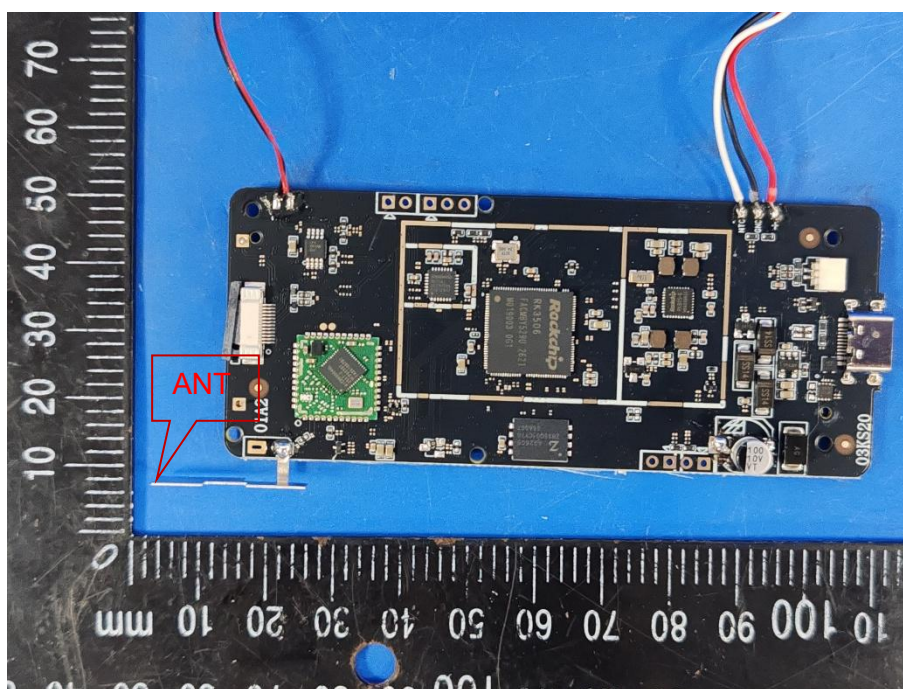


Photo 18

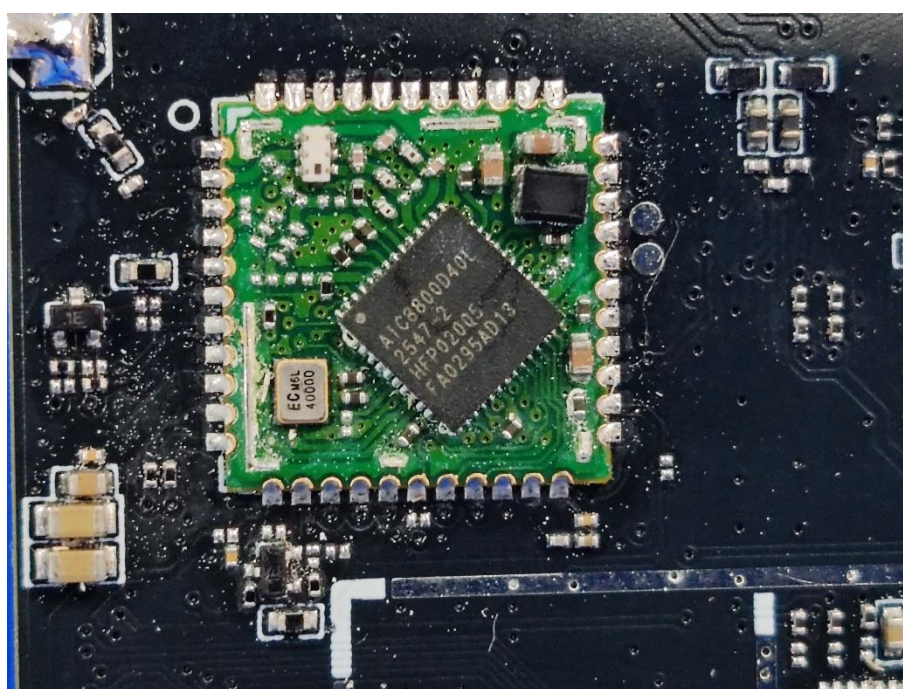


Photo 19

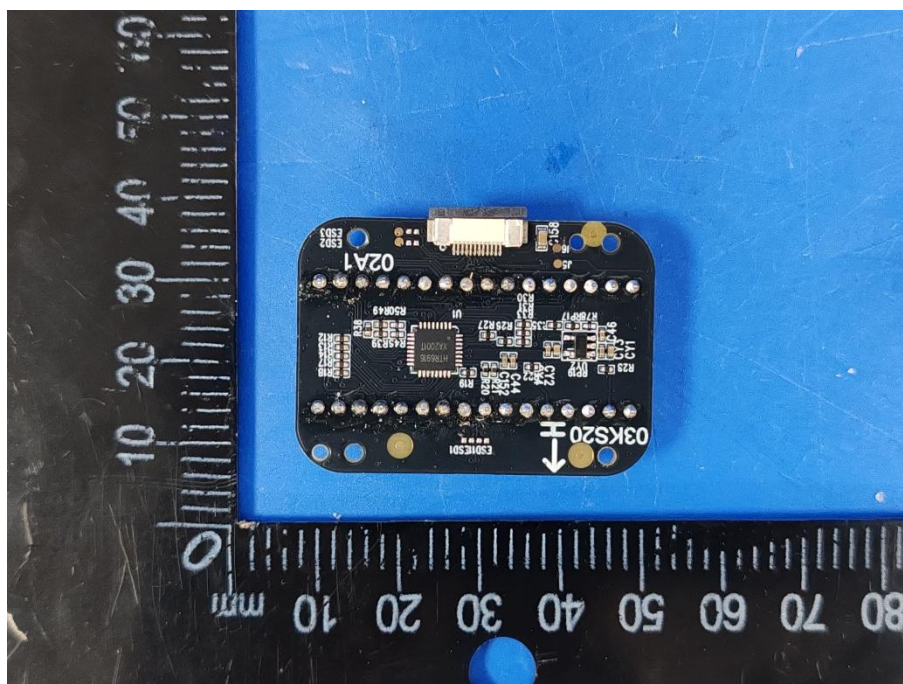


Photo 20

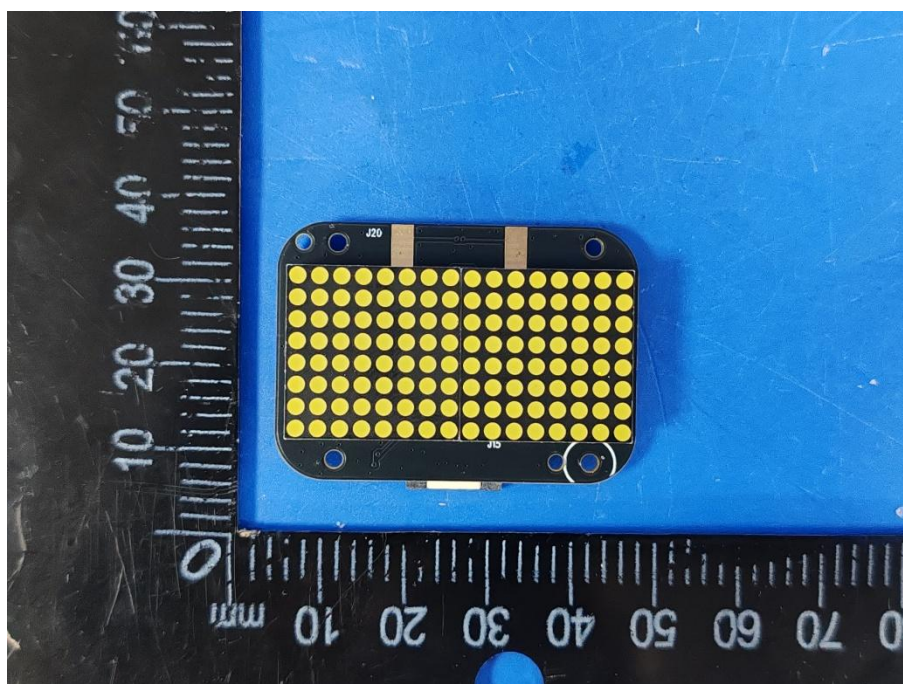


Photo 21

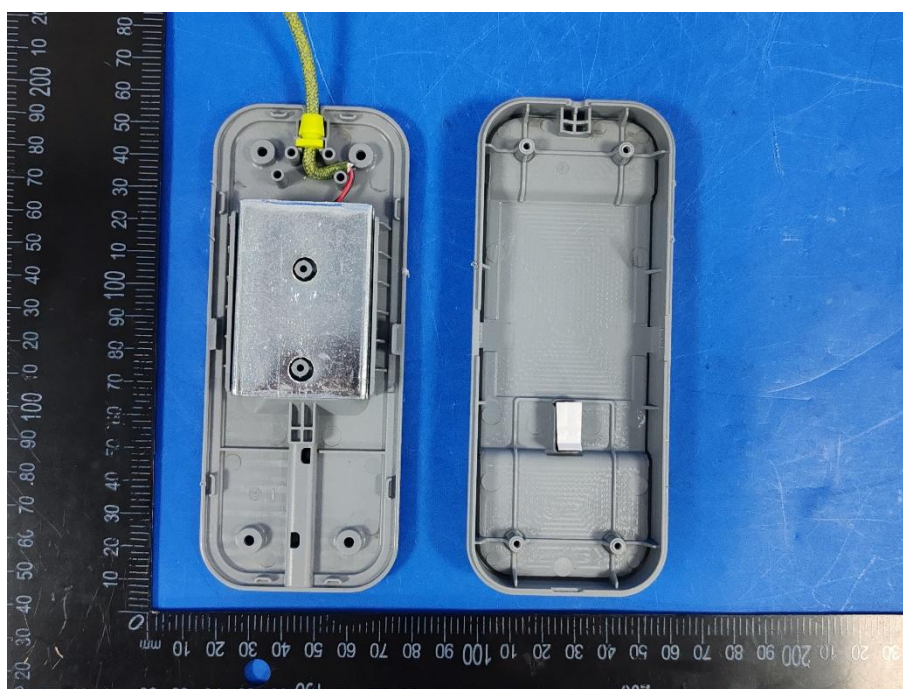


Photo 22

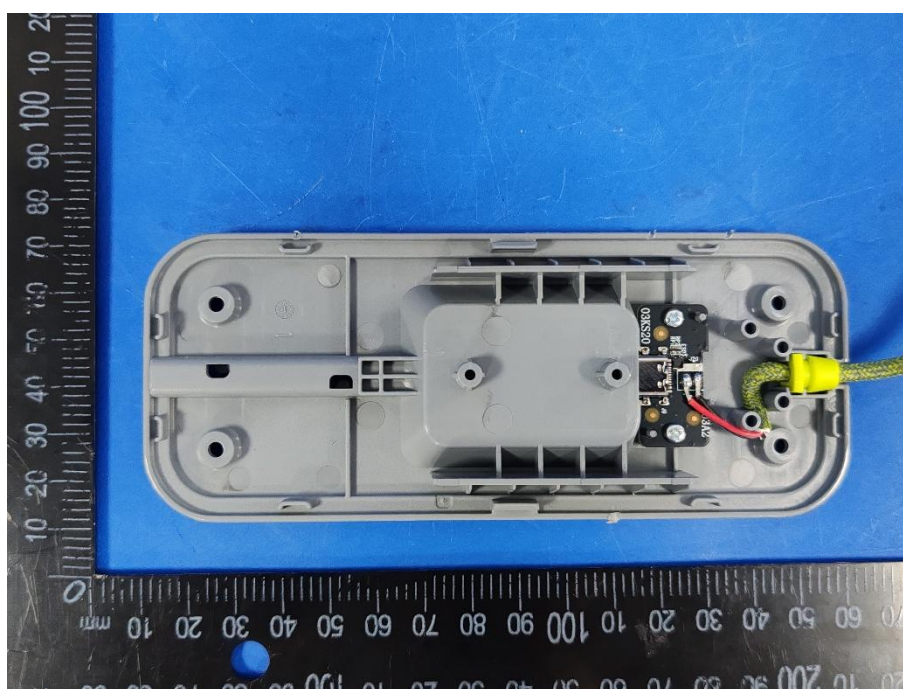


Photo 23

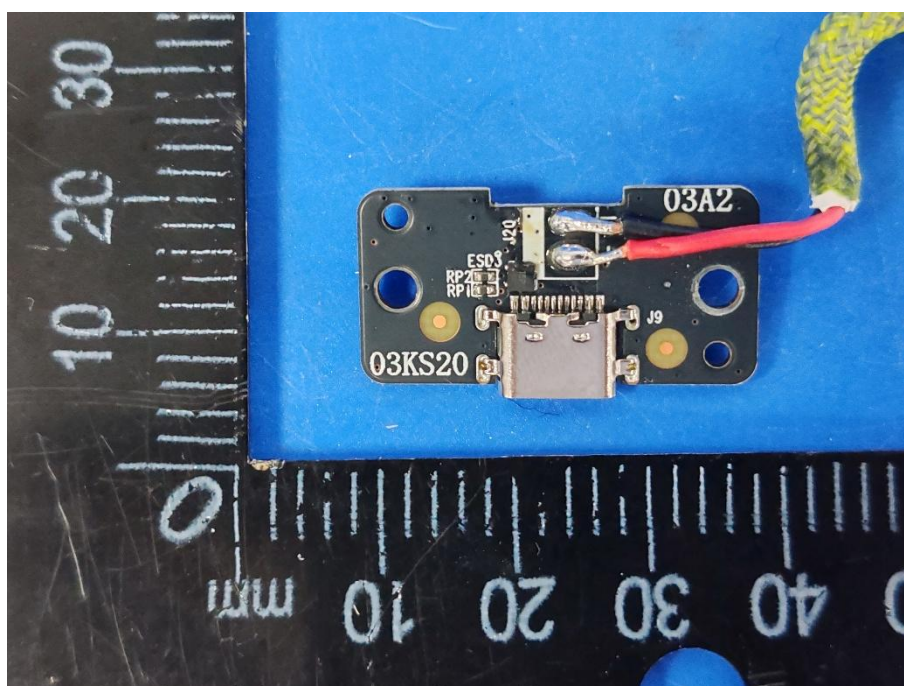
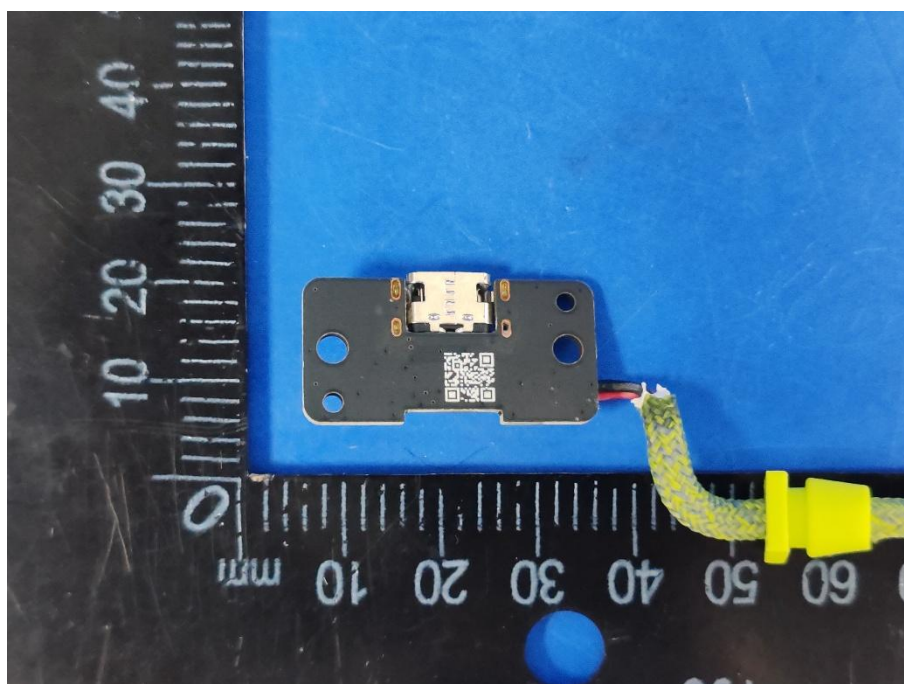


Photo 24



*****END OF THE REPORT*****