



**FCC 47 CFR Part 15 Subpart B**

**TEST REPORT**

*For*

**LED Ceiling Light**

**MODEL NUMBER: 21FM-FLC, RMCR00210138CXXX**

**REPORT NUMBER: E04A23110779F00101**

**FCC ID: 2AUHG-21FM-FLC**

**ISSUE DATE: Nov. 24, 2023**

*Prepared for*

**ARTIKA FOR LIVING INC**

**1756 50th avenue, Lachine, Quebec, Canada H8T 2V5**

*Prepared by*

**Guangdong Global Testing Technology Co., Ltd.**

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,  
Dongguan city, Guangdong, People's Republic of China, 523808**

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Guangdong Global Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	Oct. 12, 2023	Initial Issue	Jansen Lin
V0	Nov. 24, 2023	Based on the original report E04A23090734F00301, the FCC ID number has been added, the external photo of the EUT has been updated, and the name and address of the applicant has been added.	Jok Yang

**Summary of Test Results**

<b>Emission</b>			
<b>Standard</b>	<b>Test Item</b>	<b>Limit</b>	<b>Result</b>
FCC 47 CFR Part 15 Subpart B	Conducted emissions	FCC Part 15.107	Pass
	Radiated emissions below 1GHz	FCC Part 15.109	Pass

\*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

\*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B> when <Accuracy Method> decision rule is applied.

## CONTENTS

<b>1. ATTESTATION OF TEST RESULTS.....</b>	<b>5</b>
<b>2. TEST METHODOLOGY.....</b>	<b>6</b>
<b>3. FACILITIES AND ACCREDITATION.....</b>	<b>6</b>
<b>4. CALIBRATION AND UNCERTAINTY .....</b>	<b>7</b>
4.1. <i>MEASURING INSTRUMENT CALIBRATION .....</i>	<i>7</i>
4.2. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>7</i>
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>8</b>
5.1. <i>DESCRIPTION OF EUT .....</i>	<i>8</i>
5.2. <i>TEST MODE.....</i>	<i>8</i>
5.3. <i>SUPPORT UNITS FOR SYSTEM TEST .....</i>	<i>8</i>
<b>6. MEASURING EQUIPMENT AND SOFTWARE USED.....</b>	<b>9</b>
<b>7. EEMISSION TEST .....</b>	<b>10</b>
7.1. <i>Conducted emissions.....</i>	<i>10</i>
7.2. <i>Radiated emissions below 1GHz .....</i>	<i>14</i>
<b>APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION .....</b>	<b>18</b>
<b>APPENDIX: PHOTOGRAPHS OF THE EUT.....</b>	<b>19</b>

## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: ARTIKA FOR LIVING INC  
Address: 1756 50th avenue, Lachine, Quebec, Canada H8T 2V5


### Manufacturer Information

Company Name: MEKO Lighting CO., LTD  
Address: NO.2 Songlin East Road, ZengTian Village, Xin An District, Chang An Town, Dongguan City, Guangdong, Province

### Factory Information

Company Name: MEKO INTELLIGENT (CAMBODIA) CO.,LTD  
Address: (58km,National 3th Highway), VEAS POU VILLAGE KHVAV COMMUNE, SAMRONG DISTRICT, TAKEO PROVINCE

### EUT Information

Product Description: LED Ceiling Light  
Model: 21FM-FLC  
Series Model: RMCR00210138CXXX  
Brand:   
Sample Received Date: Sep. 23, 2023  
Sample Status: Normal  
Sample ID: A23090734 001  
Date of Tested: Sep. 25, 2023 to Oct. 12, 2023

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B	Pass

Prepared By:

  
Jik Wang  
Project Engineer  
  
Approved By:  


Shawn Wen

Laboratory Manager

Checked By:



Alan He

Laboratory Leader

## 2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 6947.01)</b> Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1343)</b> Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules</p> <p><b>ISED (Company No.: 30714)</b> Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.</p>
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions	0.009 MHz - 30 MHz	2	3.37
Radiated emissions below 1GHz	30 MHz -1 GHz	2	3.79
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

EUT Name		LED Ceiling Light
Model		21FM-FLC
Series Model		RMCR00210138CXXX
Model Difference		Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model 21FM-FLC, but the circuit and the electronic construction do not change, declared by the manufacturer.
EUT Classification		Class B
Ratings		AC120V 60Hz 0.35A 38W
Power Supply	AC	AC120V 60Hz

### 5.2. TEST MODE

Test Mode	Description
M01	LIGHTING

### 5.3. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit



## 6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielding Room 1	CHENG YU	8*5*4	N/A	2022/10/29	2025/10/28
LISN	R&S	ENV216	102843	2022/10/8	2024/10/6
EMI Test Receiver	R&S	ESR3	102647	2022/12/3	2023/12/2
LISN	Schwarzbeck	NNLK 8129 RC	5046	2023/3/30	2024/3/29
8-Wire ISN CAT6	Schwarzbeck	NTFM 8158	#237	2022/10/29	2023/10/28
CURRENT PROBE	R&S	EZ-17	101602	2022/10/29	2023/10/28
EZ-EMC	Farad	Ver/EMC-con-3A1 1+	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Chamber	ETS	9*6*6	Q2146	2022/8/30	2025/8/29
Receiver	R&S	ESCI3	101409	2022/10/8	2024/10/6
Loop Antenna	ETS	6502	243668	2022/3/30	2025/3/30
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2023/9/19	2024/9/18
Biconilog Antenna	Schwarzbeck	VULB 9168	1315	2022/10/10	2025/10/9
Biconilog Antenna	ETS	3142E	243646	2022/3/23	2025/3/22
EZ-EMC	Farad	Ver/FA-03A2 RE+	N/A	N/A	N/A

## 7. EMISSION TEST

### 7.1. CONDUCTED EMISSIONS

#### LIMITS

CFR 47 FCC Part15 Subpart B				
FREQUENCY (MHz)	Class A (dB $\mu$ V)		Class B (dB $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	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.

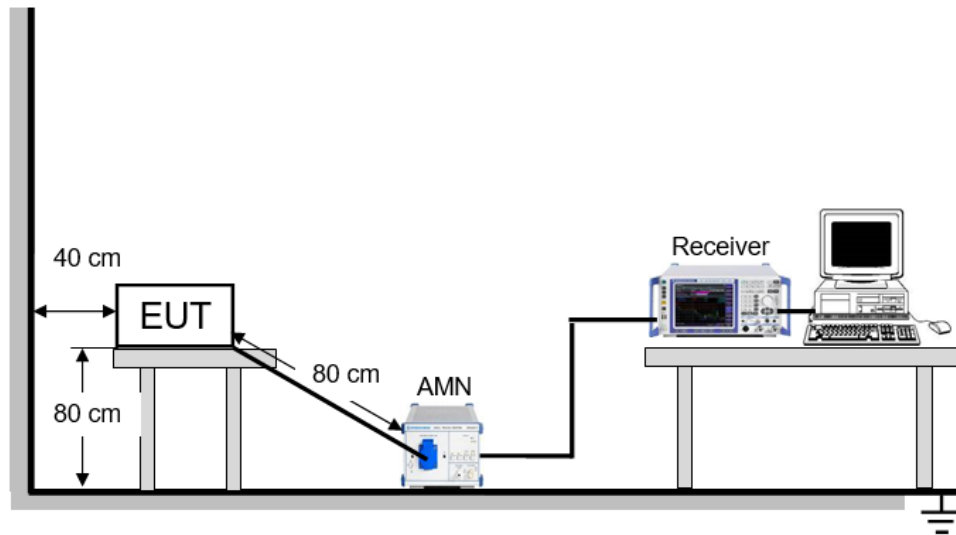
The following table is the setting of the receiver

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

#### TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
3. 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.
4. 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.
5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

## **TEST SETUP**

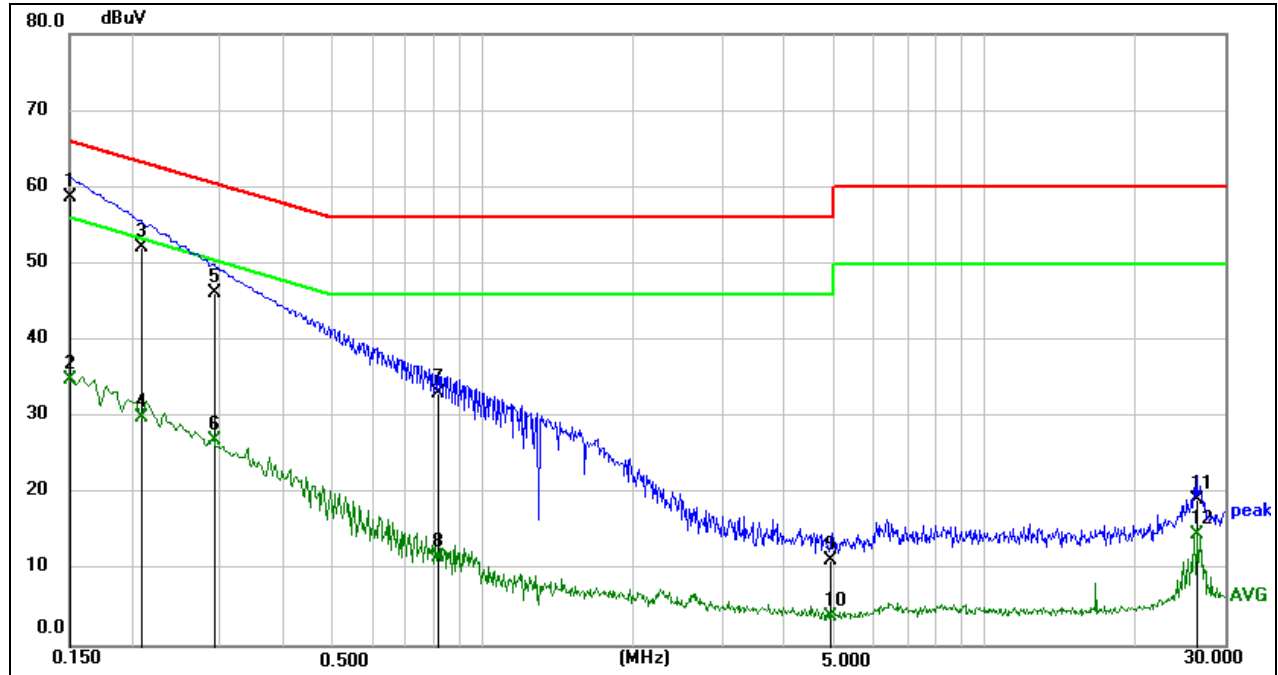


## **TEST ENVIRONMENT**

Temperature	24.3°C	Relative Humidity	52.3%
Atmosphere Pressure	101kPa		

## **TEST MODE**

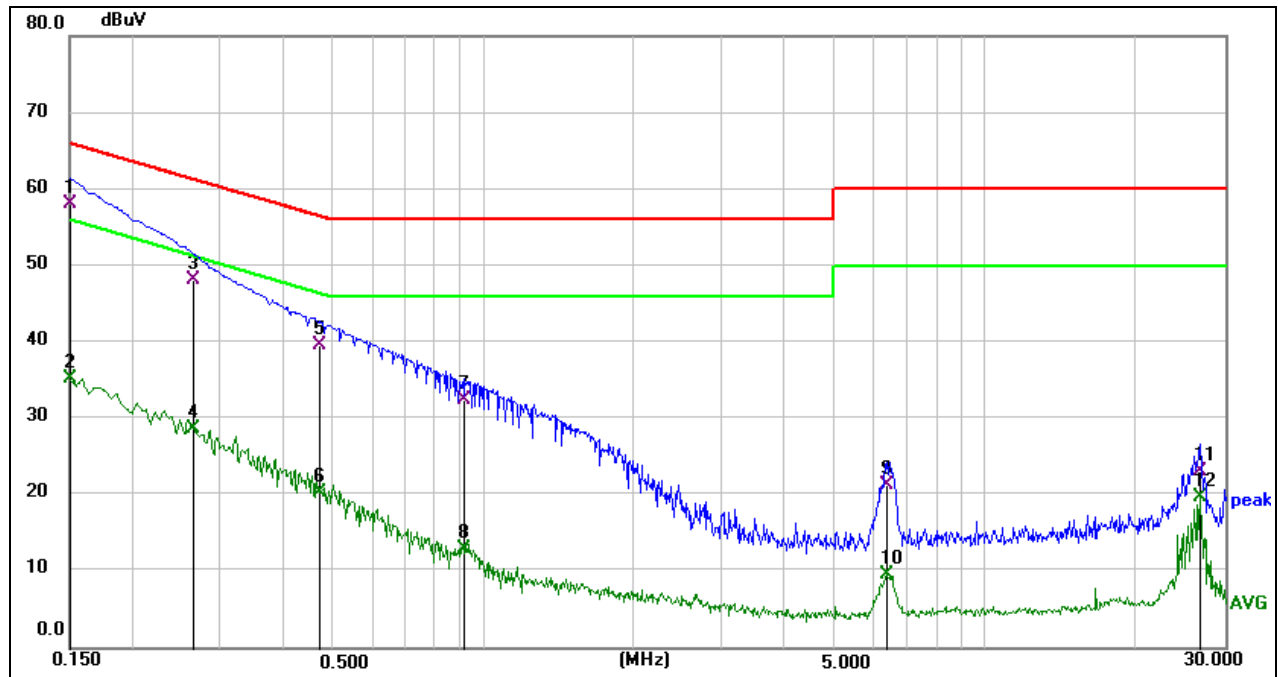
Pre-test Mode:	M01
Final Test Mode:	M01

**TEST RESULTS**

Phase: L1

Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	48.96	9.76	58.72	66.00	-7.28	peak
2	0.1500	25.10	9.76	34.86	56.00	-21.14	AVG
3	0.2084	42.39	9.80	52.19	63.27	-11.08	peak
4	0.2084	20.01	9.80	29.81	53.27	-23.46	AVG
5	0.2894	36.33	9.85	46.18	60.54	-14.36	peak
6	0.2894	16.99	9.85	26.84	50.54	-23.70	AVG
7	0.8160	23.05	9.91	32.96	56.00	-23.04	peak
8	0.8160	1.67	9.91	11.58	46.00	-34.42	AVG
9	4.9694	1.40	9.78	11.18	56.00	-44.82	peak
10	4.9694	-5.83	9.78	3.95	46.00	-42.05	AVG
11	26.3400	8.96	10.10	19.06	60.00	-40.94	peak
12	26.3400	4.44	10.10	14.54	50.00	-35.46	AVG



Phase: N

Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	48.41	9.65	58.06	66.00	-7.94	QP
2	0.1500	25.57	9.65	35.22	56.00	-20.78	AVG
3	0.2644	38.36	9.80	48.16	61.29	-13.13	QP
4	0.2644	18.98	9.80	28.78	51.29	-22.51	AVG
5	0.4740	29.79	9.85	39.64	56.44	-16.80	QP
6	0.4740	10.56	9.85	20.41	46.44	-26.03	AVG
7	0.9195	22.73	9.81	32.54	56.00	-23.46	QP
8	0.9195	3.10	9.81	12.91	46.00	-33.09	AVG
9	6.3780	11.43	9.93	21.36	60.00	-38.64	QP
10	6.3780	-0.39	9.93	9.54	50.00	-40.46	AVG
11	26.8080	12.99	10.06	23.05	60.00	-36.95	QP
12	26.8080	9.74	10.06	19.80	50.00	-30.20	AVG

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)

Margin = Result - Limit

## 7.2. RADIATED EMISSIONS BELOW 1GHZ

### LIMITS

Below 1 GHz

CFR 47 FCC Part 15 Subpart B		
Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Test 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	5 <sup>th</sup> 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) Emission level (dBuV/m) = 20log Emission level (uV/m),  
3m Emission level = 10 m Emission level + 20log(10 m/3 m);

### TEST PROCEDURE

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used

for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. 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.

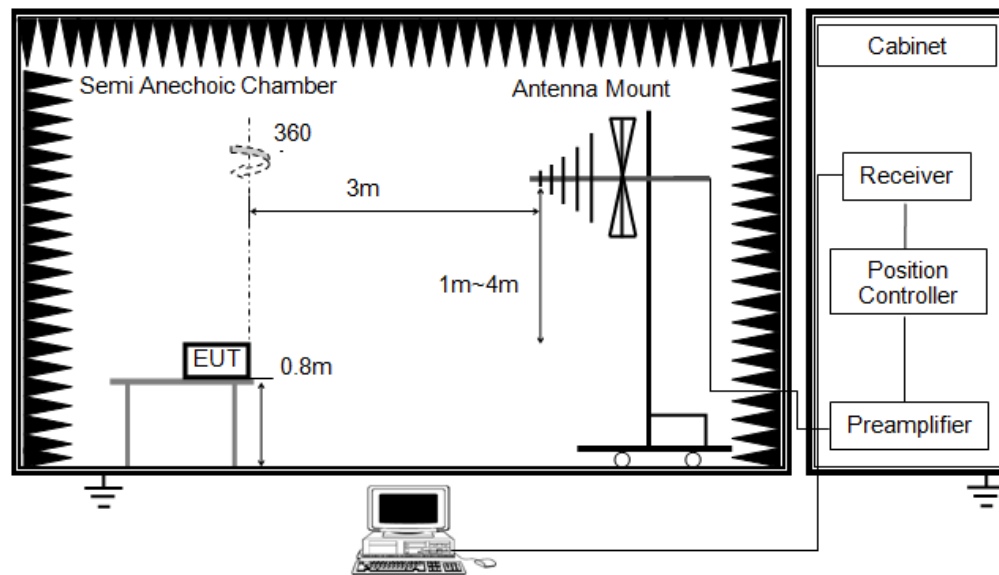
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

8. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

### **TEST SETUP**

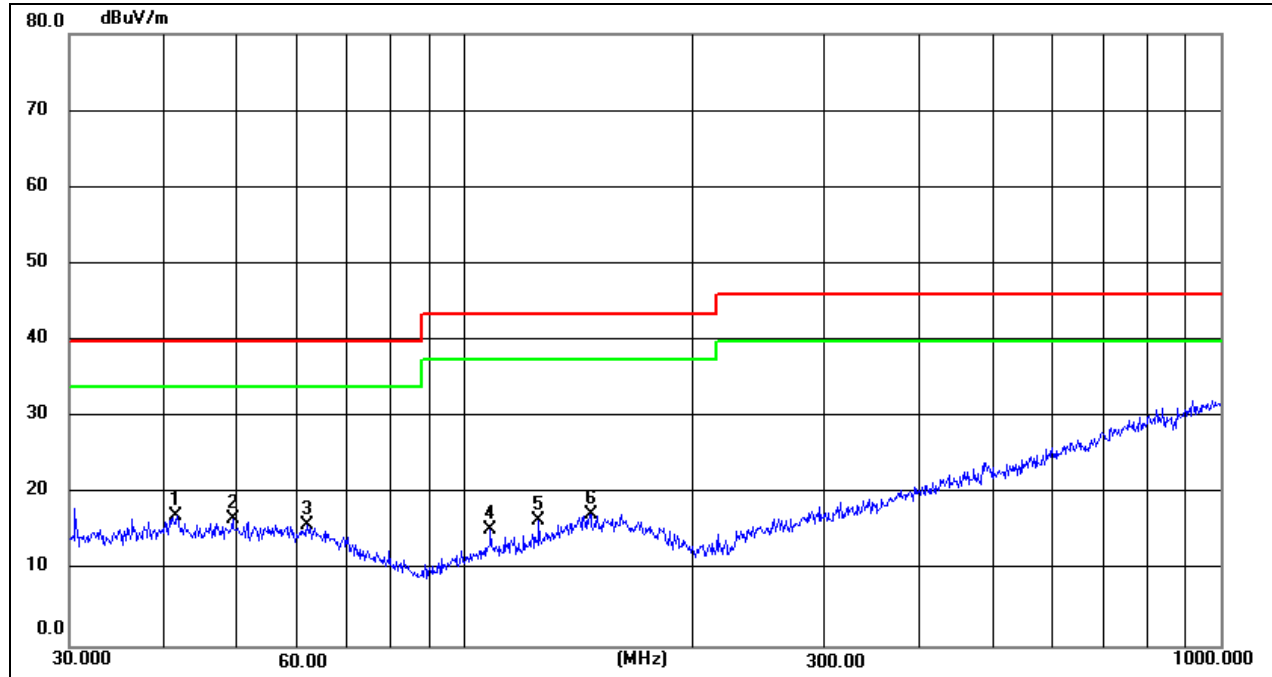


### **TEST ENVIRONMENT**

Temperature	22°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

### **TEST MODE**

Pre-test Mode:	M01
Final Test Mode:	M01

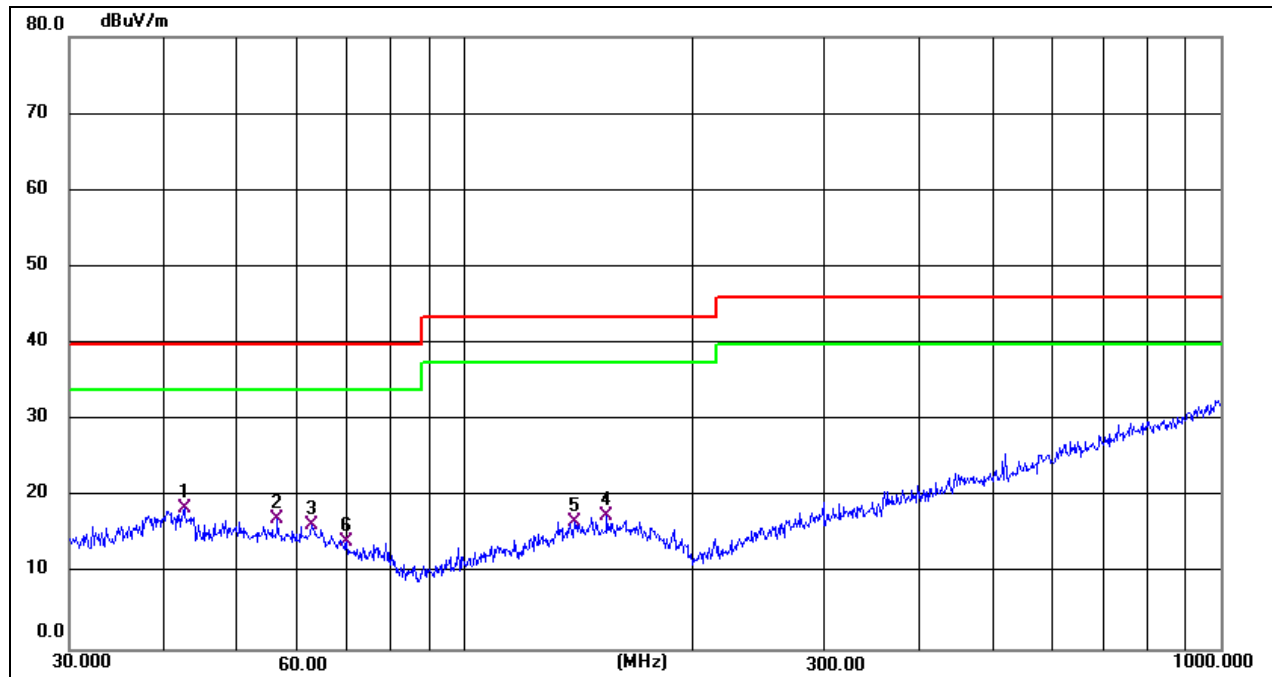
**TEST RESULTS**

Antenna::Horizontal

Mode: M01

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	41.7129	29.34	-12.28	17.06	40.00	-22.94	QP
2	49.3594	29.03	-12.27	16.76	40.00	-23.24	QP
3	61.9950	28.88	-12.92	15.96	40.00	-24.04	QP
4	108.2666	30.42	-15.07	15.35	43.50	-28.15	QP
5	125.4457	30.56	-13.97	16.59	43.50	-26.91	QP
6	146.8876	29.22	-11.84	17.38	43.50	-26.12	QP





Antenna::Vertical

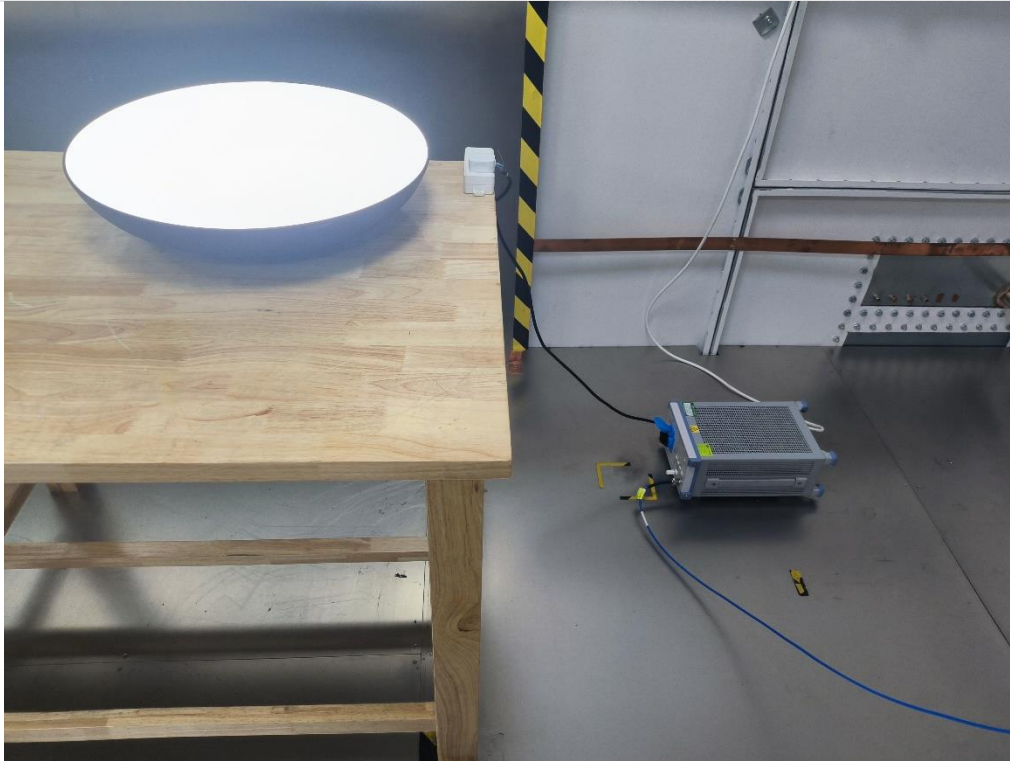
Mode: M01

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	42.6000	30.73	-12.22	18.51	40.00	-21.49	QP
2	56.5930	29.65	-12.47	17.18	40.00	-22.82	QP
3	62.8707	29.38	-13.07	16.31	40.00	-23.69	QP
4	154.2785	29.24	-11.73	17.51	43.50	-25.99	QP
5	139.8508	28.99	-12.25	16.74	43.50	-26.76	QP
6	69.8450	28.33	-14.10	14.23	40.00	-25.77	QP

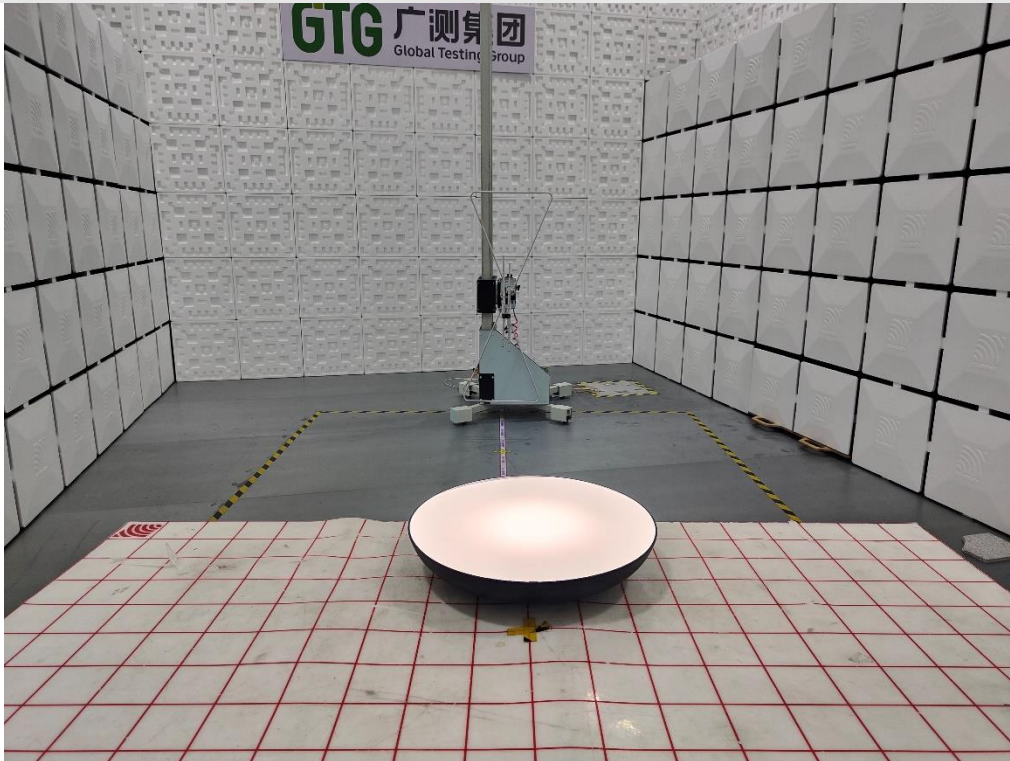
Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)  
 2. Margin = Result - Limit

## APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Conducted emissions

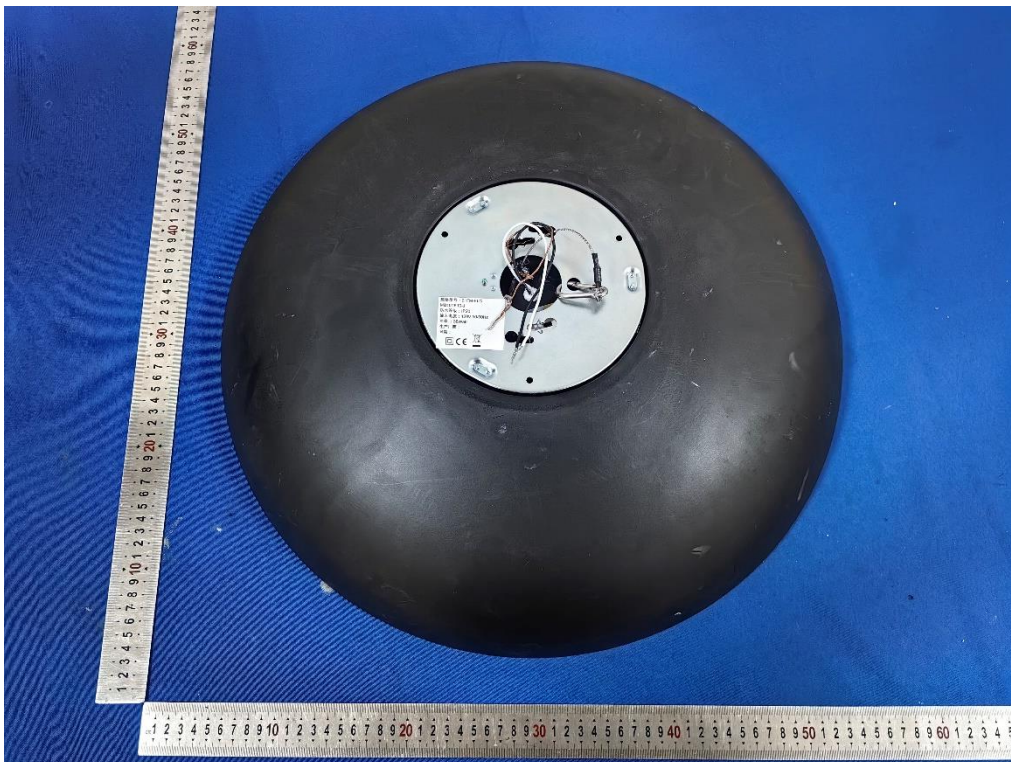
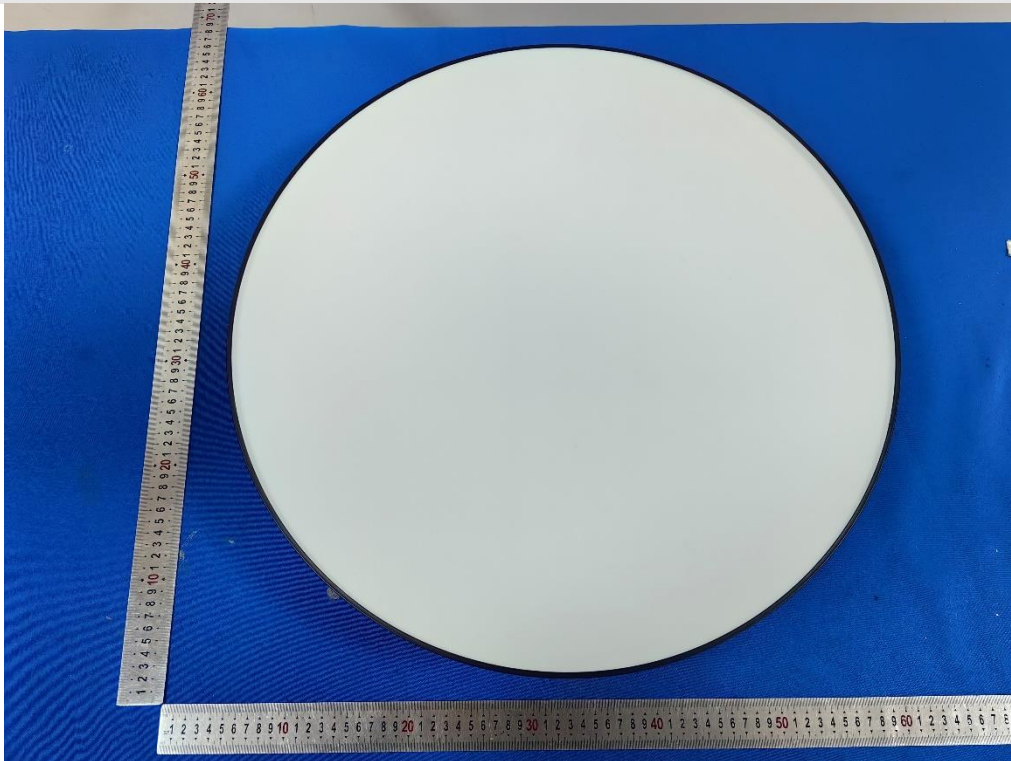


Radiated emissions below 1GHz

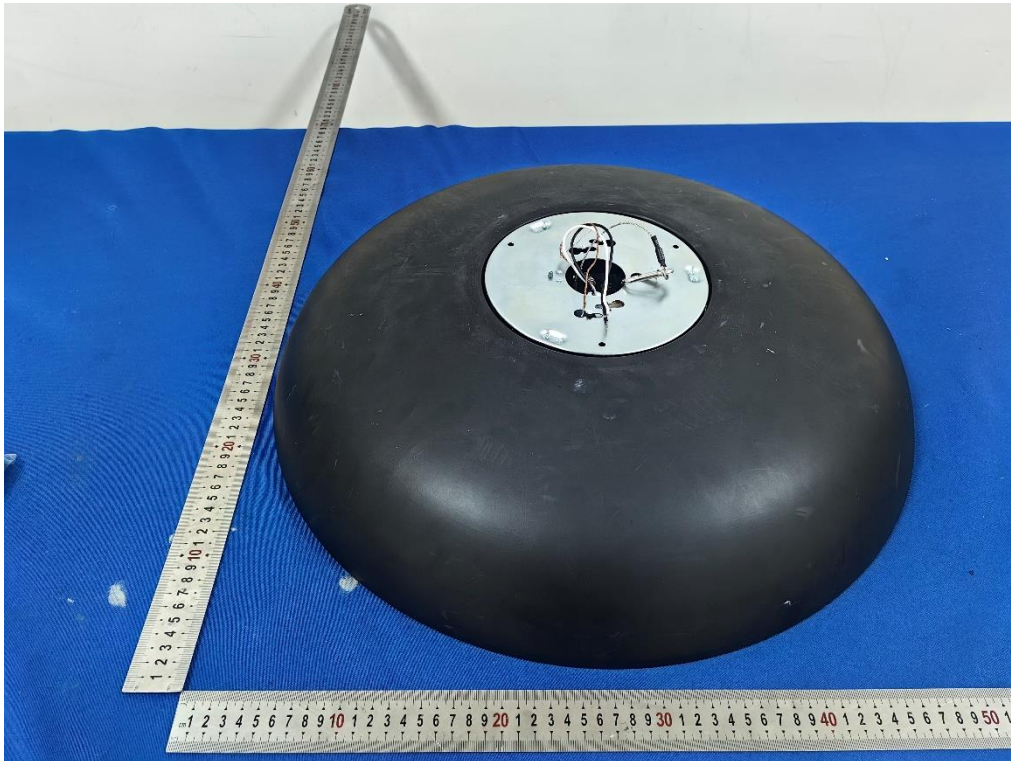
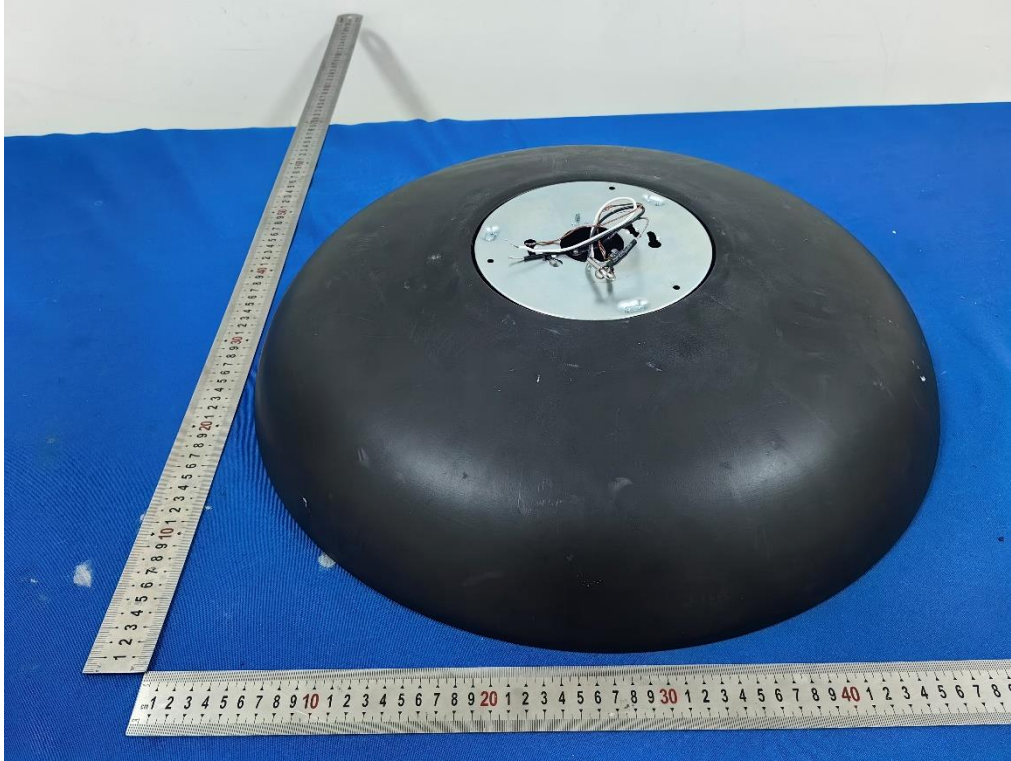


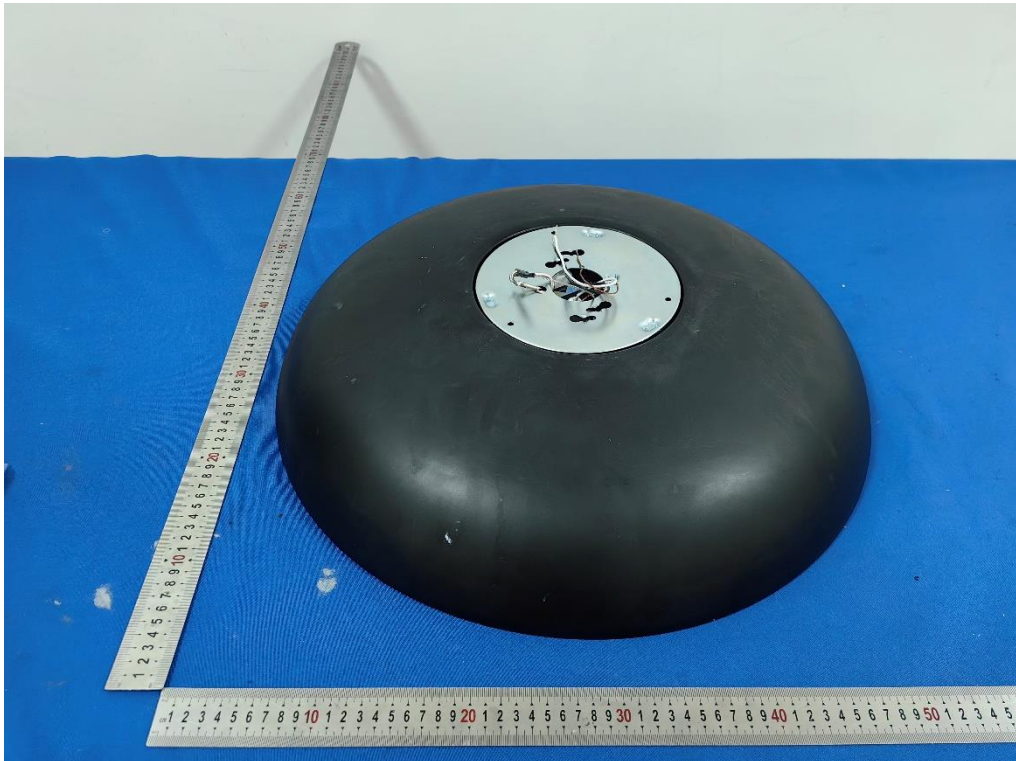
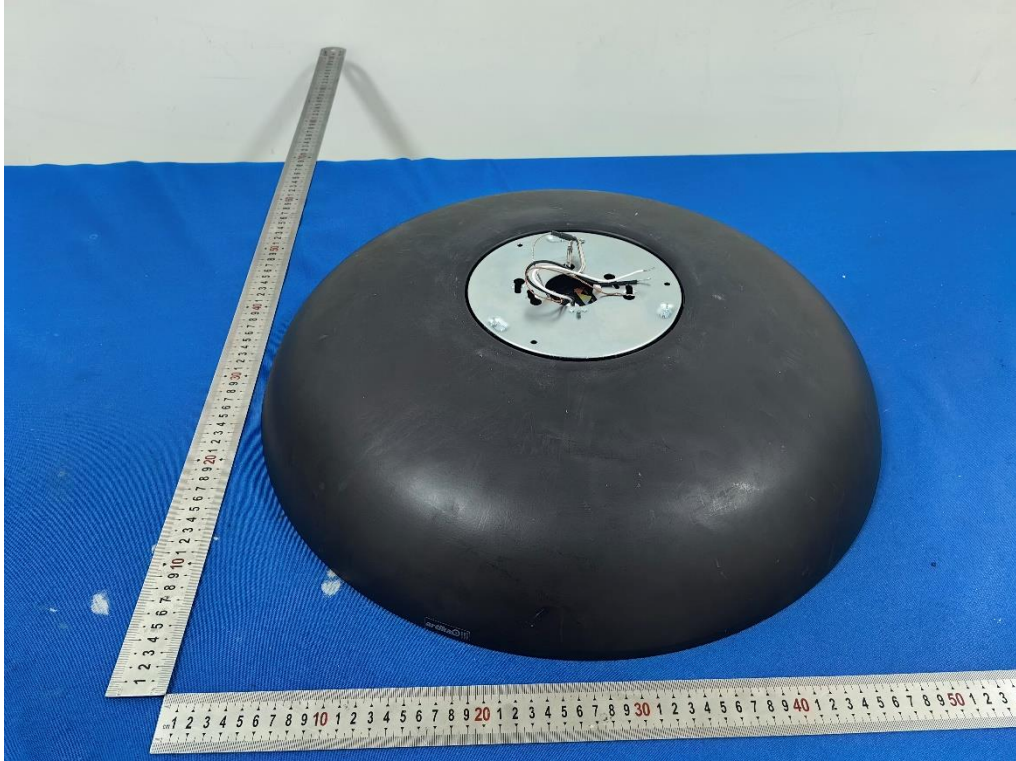
## APPENDIX: PHOTOGRAPHS OF THE EUT

External



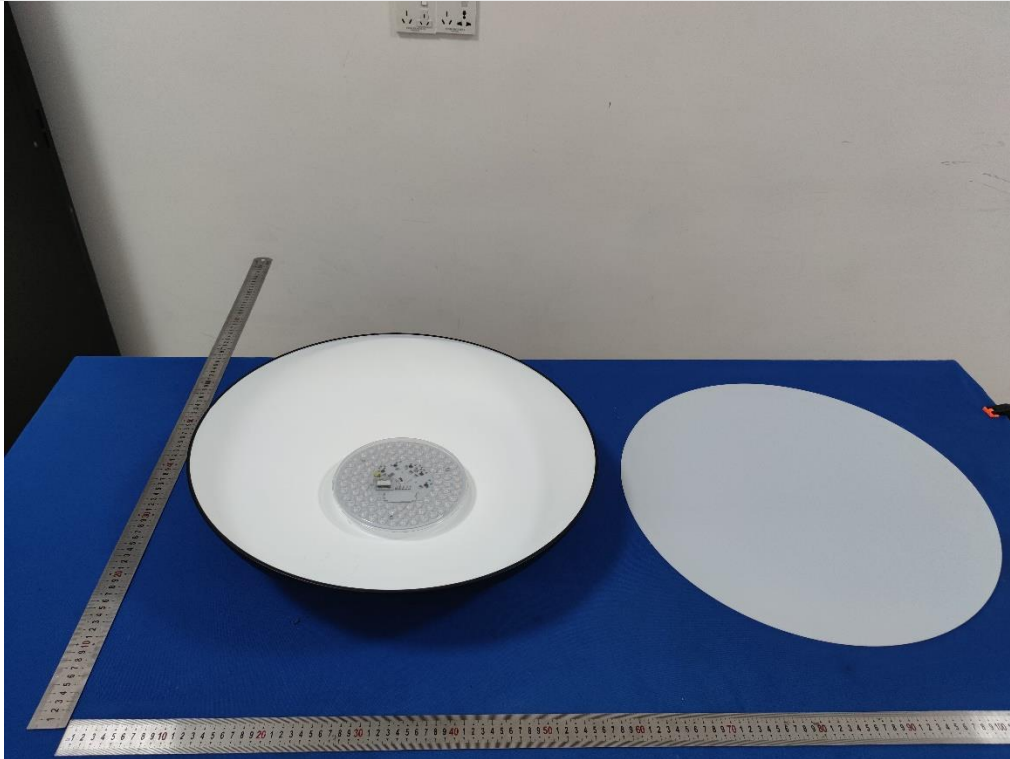








**Internal**





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**END OF REPORT**