



Report No.: TW2206394E

File Reference No.: 2022-07-14

Applicant: KICHLER LIGHTING LLC

Product: 60" Gentry

Trademark: KICHLER

Model No.: 60-GENT, 300260

Test Standards: FCC Part 15 Subpart B

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

Approved By

Terry Tang

Terry Tang

Manager

Dated: July 14, 2022

**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      Email: [info@timeway-lab.com](mailto: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 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

### 1.2 Applicant Details

Applicant: KICHLER LIGHTING LLC  
Address: KICHLER HQ 30455 SOLON RD SOLON, OH 44139  
Telephone: 440-570-3125  
Fax: --

### 1.3 Description of EUT

Product: 60" Gentry  
Manufacturer: Chienluen Industries (zhongshan) Ltd..  
Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451  
Trademark: KICHLER  
Model Number: 60-GENT, 300260  
Rating: Input: 120V, 60Hz, Fan W/O Light Kit: 0.55A, 36W, Fan W/ Light Kit: 0.71A, 51W  
Rx Frequency: 303.872MHz

### 1.4 Submitted Sample: 1 pc

### 1.5 Test Duration

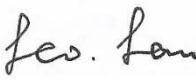
Date of Receipt of Application: June 30, 2022  
Date of Receipt of Test Item: June 30, 2022  
Date of Test: June 30, 2022 ~ July 14, 2022

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB  
Radiated Emissions below 1GHz Uncertainty = 4.7dB  
Radiated Emissions above 1GHz Uncertainty = 6.0dB

### 1.7 Test Engineer

The sample tested by

  
Print Name: Leo Lau



## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2022.06.17	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2022.06.17	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2022.06.17	1 Year
LISN	ESH3-Z5	100294	RS	2022.06.17	1 Year
LISN	ESH3-Z5	100253	RS	2022.06.17	1 Year
LISN	NNB42	00012	SCHAFFNER	2022.01.05	1 Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESPI 3	100379	RS	2022.06.17	1 Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2022.06.17	1 Year
Amplifier	BBV9743	#218	HP/Agilent	2022.06.17	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2021.07.02	3 Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2021.07.02	3 Year
Amplifier	8449B	3008A00160	HP/Agilent	2022.06.17	1 Year

### 2.3 Auxiliary Equipment

Device	Manufacturer	Model	Rating
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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

#### 3.2 Test Standards

##### **FCC Part 15 Subpart B**

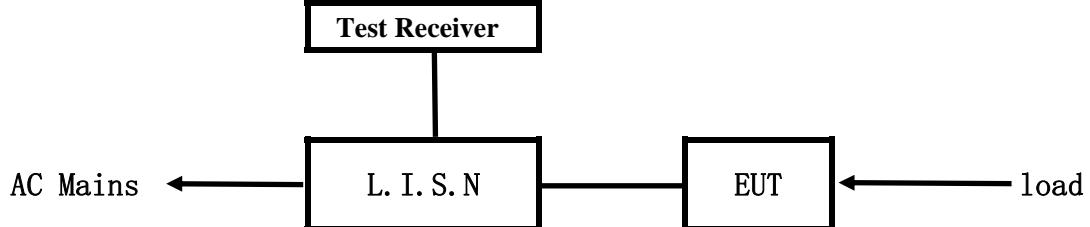
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## 4.0 Conducted Power line Test

### 4.1 Schematics of the test



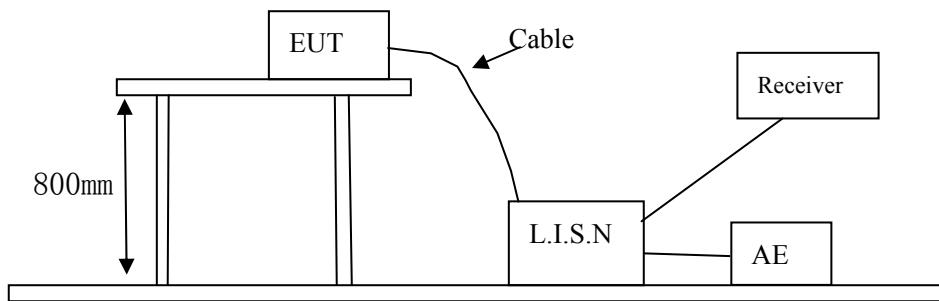
EUT: Equipment Under Test

### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 -2014. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 4.3 Power line conducted Emission Limit

Frequency (MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

Notes: 1. \*decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: for this report, only receiving mode was tested.

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

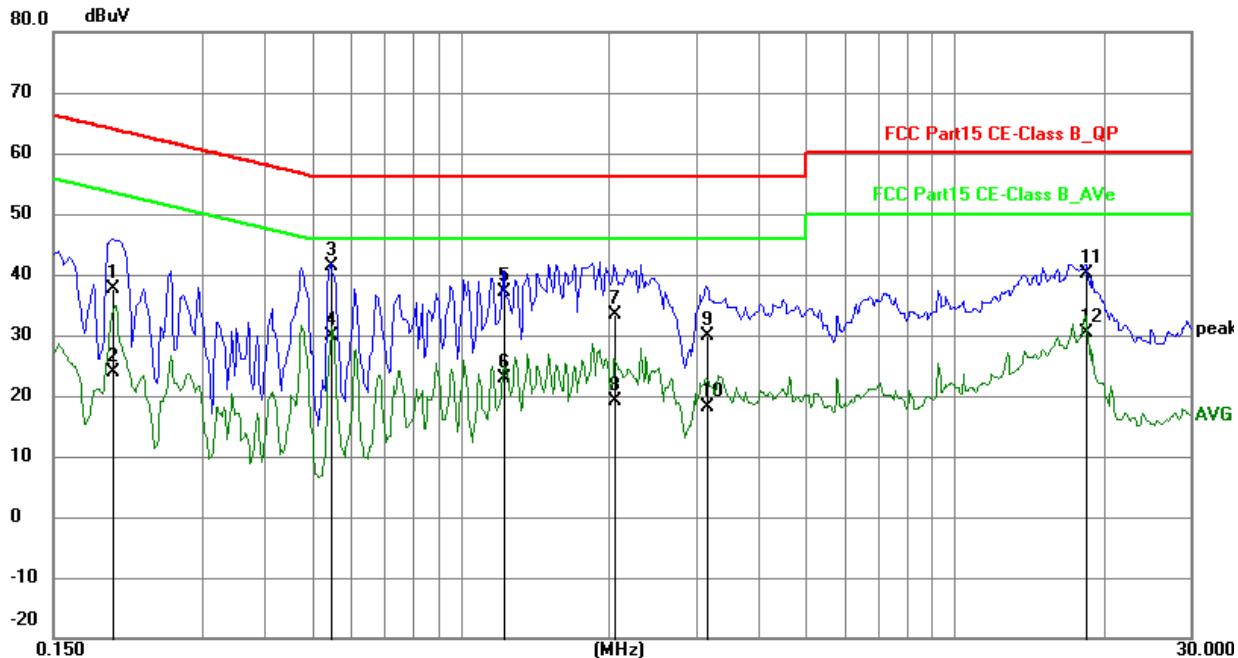
**EUT Operating Environment**

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

**EUT set Condition: Receiving Mode**

**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	0.1968	27.86	9.75	37.61	63.74	-26.13	QP	P
2	0.1968	14.24	9.75	23.99	53.74	-29.75	AVG	P
3	0.5439	31.51	9.77	41.28	56.00	-14.72	QP	P
4	0.5439	20.15	9.77	29.92	46.00	-16.08	AVG	P
5	1.2225	27.28	9.79	37.07	56.00	-18.93	QP	P
6	1.2225	13.01	9.79	22.80	46.00	-23.20	AVG	P
7	2.0493	23.60	9.80	33.40	56.00	-22.60	QP	P
8	2.0493	9.21	9.80	19.01	46.00	-26.99	AVG	P
9	3.1443	19.94	9.85	29.79	56.00	-26.21	QP	P
10	3.1443	8.22	9.85	18.07	46.00	-27.93	AVG	P
11	18.4050	29.65	10.58	40.23	60.00	-19.77	QP	P
12	18.4050	19.74	10.58	30.32	50.00	-19.68	AVG	P

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

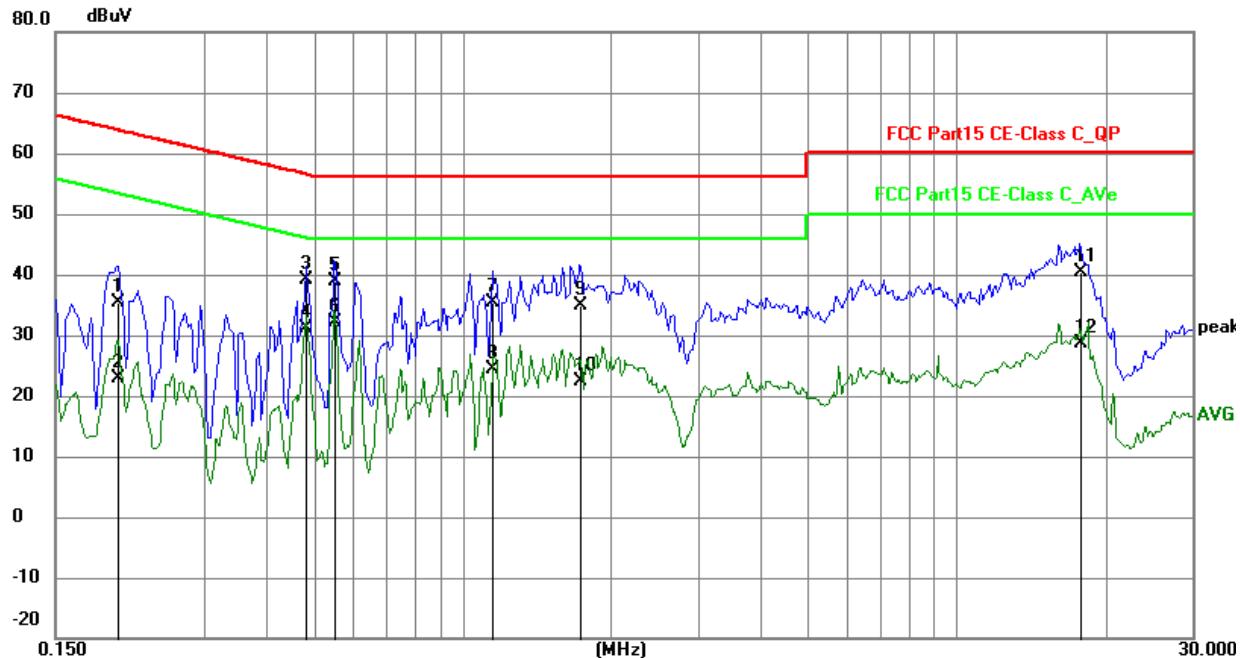
**EUT Operating Environment**

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

**EUT set Condition: Receiving Mode**

**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	0.2007	25.66	9.75	35.41	63.58	-28.17	QP	P
2	0.2007	13.10	9.75	22.85	53.58	-30.73	AVG	P
3	0.4815	29.31	9.77	39.08	56.31	-17.23	QP	P
4	0.4815	21.37	9.77	31.14	46.31	-15.17	AVG	P
5	0.5517	29.13	9.77	38.90	56.00	-17.10	QP	P
6	0.5517	22.34	9.77	32.11	46.00	-13.89	AVG	P
7	1.1523	25.61	9.79	35.40	56.00	-20.60	QP	P
8	1.1523	14.66	9.79	24.45	46.00	-21.55	AVG	P
9	1.7334	25.00	9.80	34.80	56.00	-21.20	QP	P
10	1.7334	12.53	9.80	22.33	46.00	-23.67	AVG	P
11	17.8200	29.95	10.55	40.50	60.00	-19.50	QP	P
12	17.8200	18.11	10.55	28.66	50.00	-21.34	AVG	P

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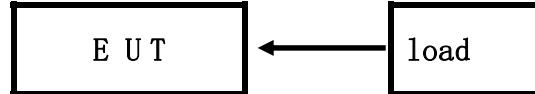
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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

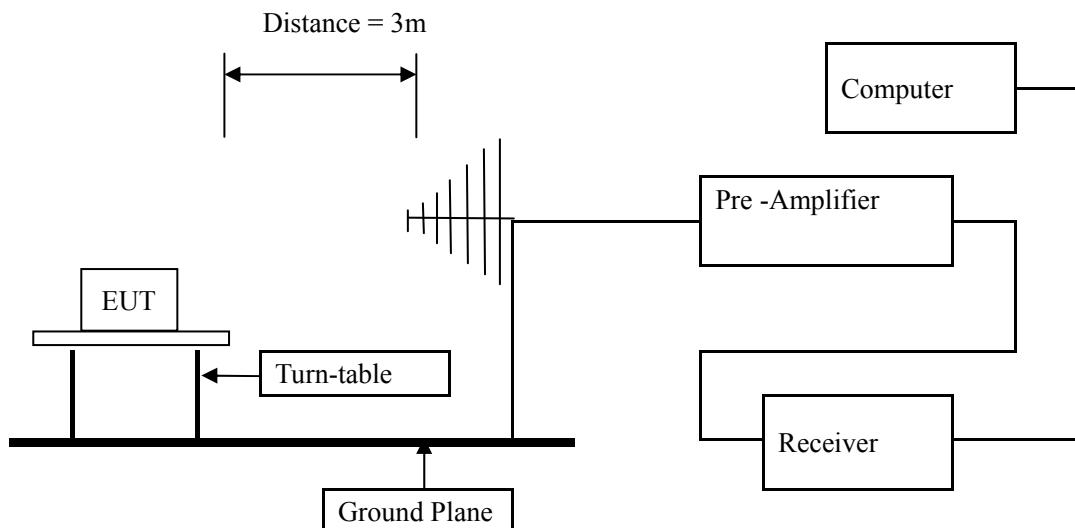


### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 4GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

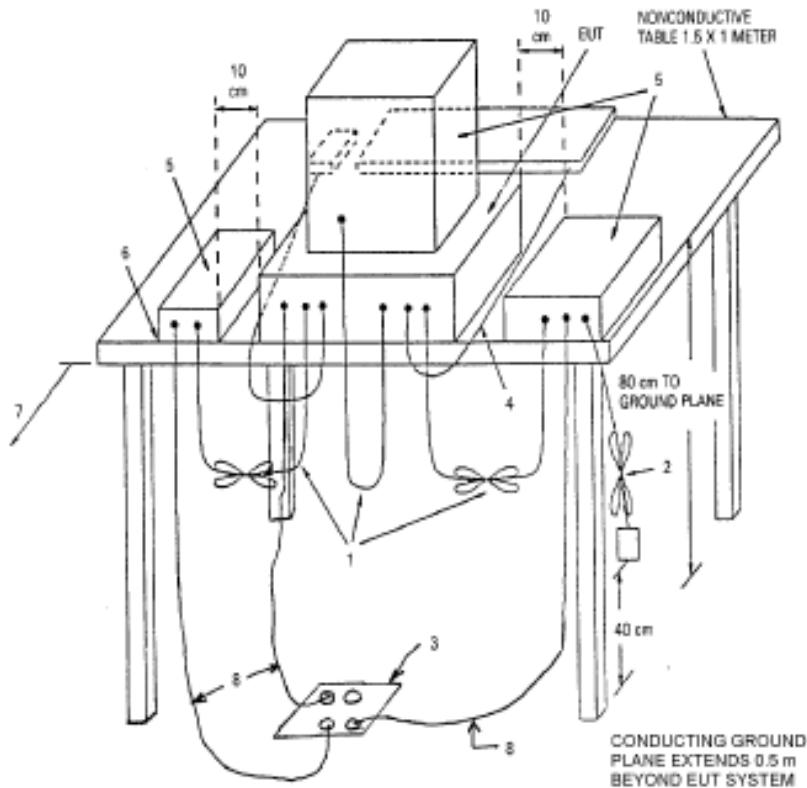
Actual Working Voltage and Frequency: 120V~, 60Hz

#### Block diagram of Test setup



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### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

## 5.4 Test result

The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with  $\text{RBW}=\text{VBW}=1\text{MHz}$  and PK detector. AV value with  $\text{RBW}=1\text{MHz}$ ,  $\text{VBW}=10\text{Hz}$  and PK. Measurements were made at 3 meters.

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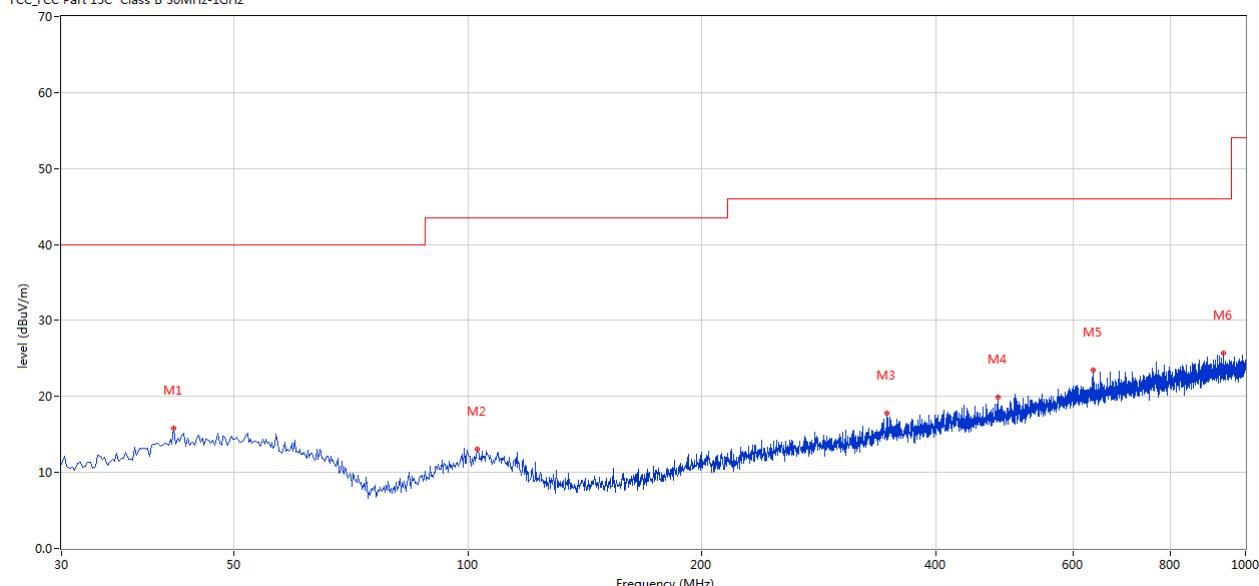
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### A: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE1	Test Time:	2022-07-13_10.25.12
EUT Name:	60" Gentry	Test Engineer:	Andy
Manufacturer:	Chienluen Industries (zhongshan) Ltd..	Test Standard:	FCC PART 15B
Model:	60-GENT	Work Addition:	Receiving Mode
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

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	41.880	15.86	-11.72	40.0	-24.14	Peak	39.00	100	Horizontal	Pass
2	102.732	13. 1	-13.39	43.5	-30.49	Peak	360.00	100	Horizontal	Pass
3	346.141	17.84	-9.48	46.0	-28.16	Peak	83.00	100	Horizontal	Pass
4	479.968	19.92	-7.40	46.0	-26.08	Peak	250.00	100	Horizontal	Pass
5	637.311	23.48	-4.71	46.0	-22.52	Peak	11.00	100	Horizontal	Pass
6	938.178	25.71	-1.78	46.0	-20.29	Peak	21.00	100	Horizontal	Pass

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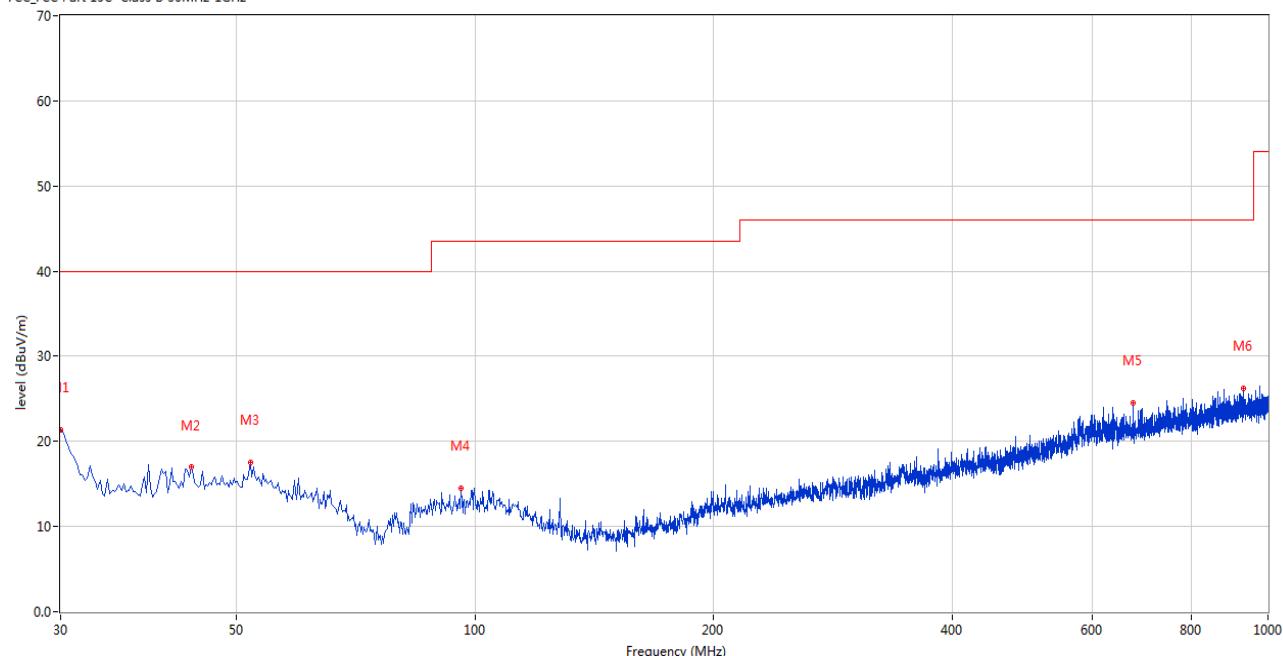
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### B: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE1	Test Time:	2022-07-13_10.23.03
EUT Name:	60" Gentry	Test Engineer:	Andy
Manufacturer:	Chienluen Industries (zhongshan) Ltd..	Test Standard:	FCC PART 15B
Model:	60-GENT	Work Addition:	Receiving Mode
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	able (o)	Height (cm)	ANT	Verdict
1	30.000	21.38	-14.19	40.0	-18.62	Peak	174.00	100	Vertical	Pass
2	43.819	16.95	-11.48	40.0	-23.05	Peak	85.00	100	Vertical	Pass
3	52.062	17.55	-11.43	40.0	-22.45	Peak	161.00	100	Vertical	Pass
4	95.944	14.46	-14.16	43.5	-29.04	Peak	152.00	100	Vertical	Pass
5	675.374	24.51	-4.37	46.0	-21.49	Peak	147.00	100	Vertical	Pass
6	930.177	26.25	-1.78	46.0	-19.75	Peak	319.00	100	Vertical	Pass

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### C: Radiated Disturbance (1000MHz----6000MHz)

#### EUT Operating Environment

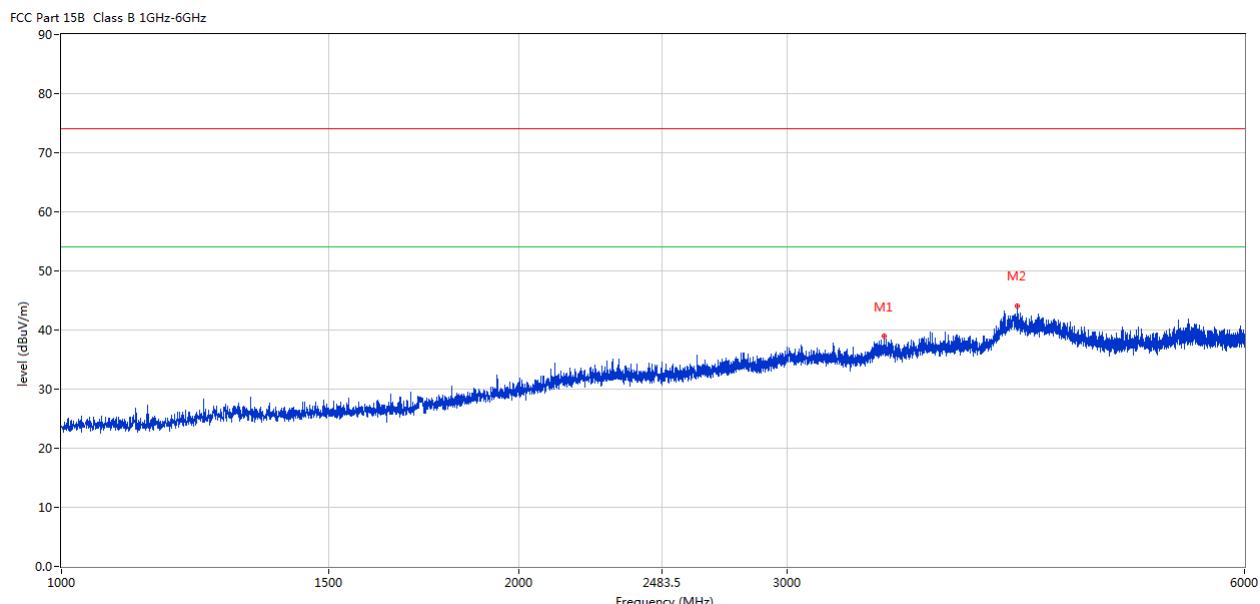
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

#### EUT set Condition: Receiving Mode

#### Equipment Level: Class B

#### 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	3476.131	38.94	-1.25	74.0	-35.06	Peak	10.00	100	Horizontal	Pass
2	4255.186	44.08	1.73	74.0	-29.92	Peak	14.00	100	Horizontal	Pass

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**D: Radiated Disturbance (1000MHz----6000MHz)**

**EUT Operating Environment**

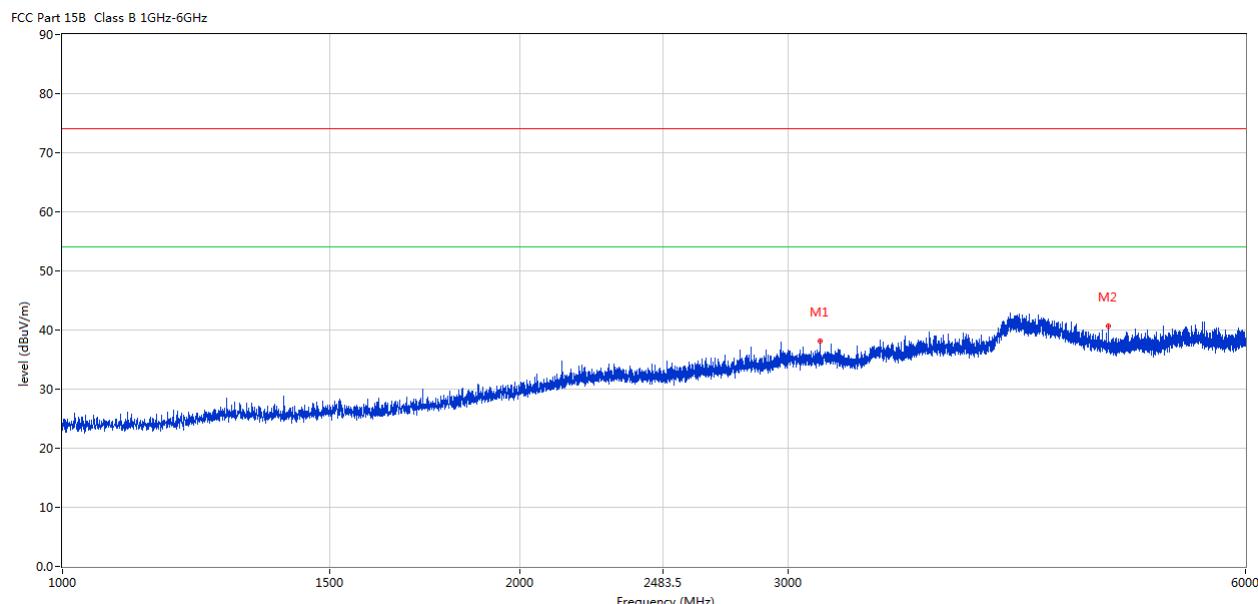
Temperature:25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**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	3149.963	38.09	-2.08	74.0	-35.91	Peak	1.00	100	Vertical	Pass
2	4873.032	40.64	3.19	74.0	-33.36	Peak	2.00	100	Vertical	Pass

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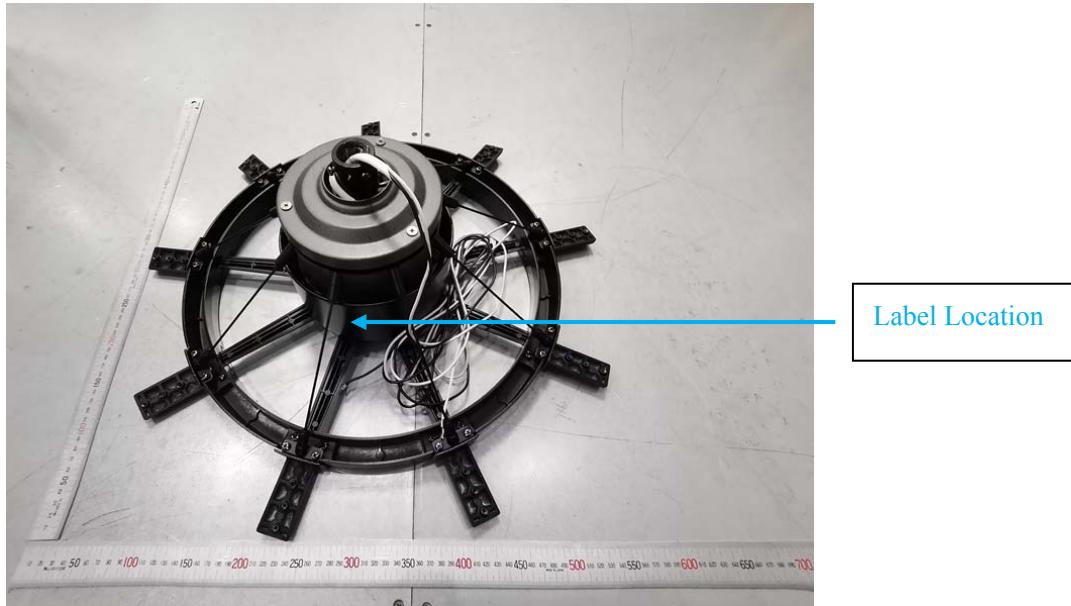


## 6.0 FCC ID Label

### FCC ID: YNE-60GENTR

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.





## 7.0 Photo of testing

### Conducted Emissions



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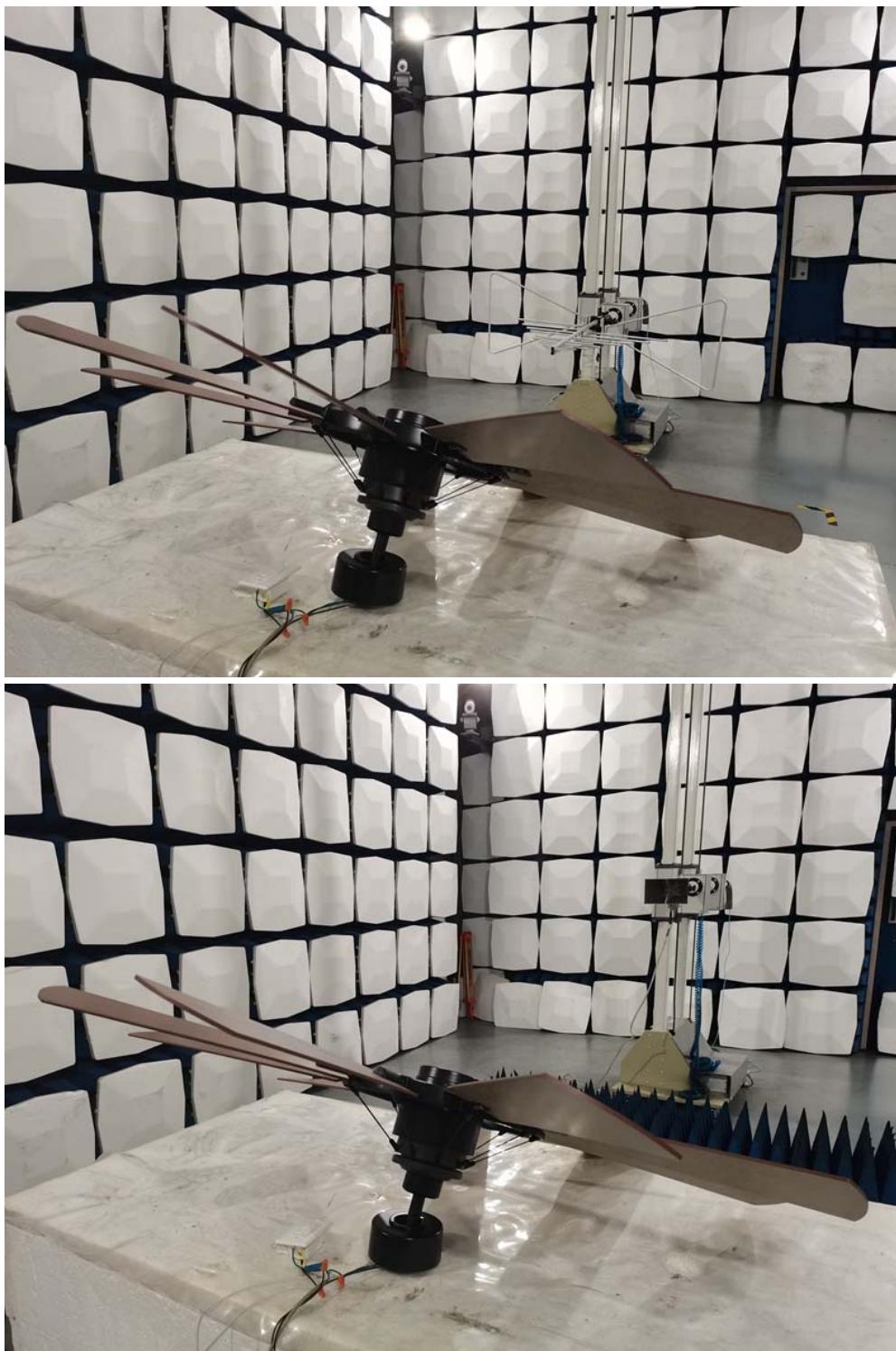
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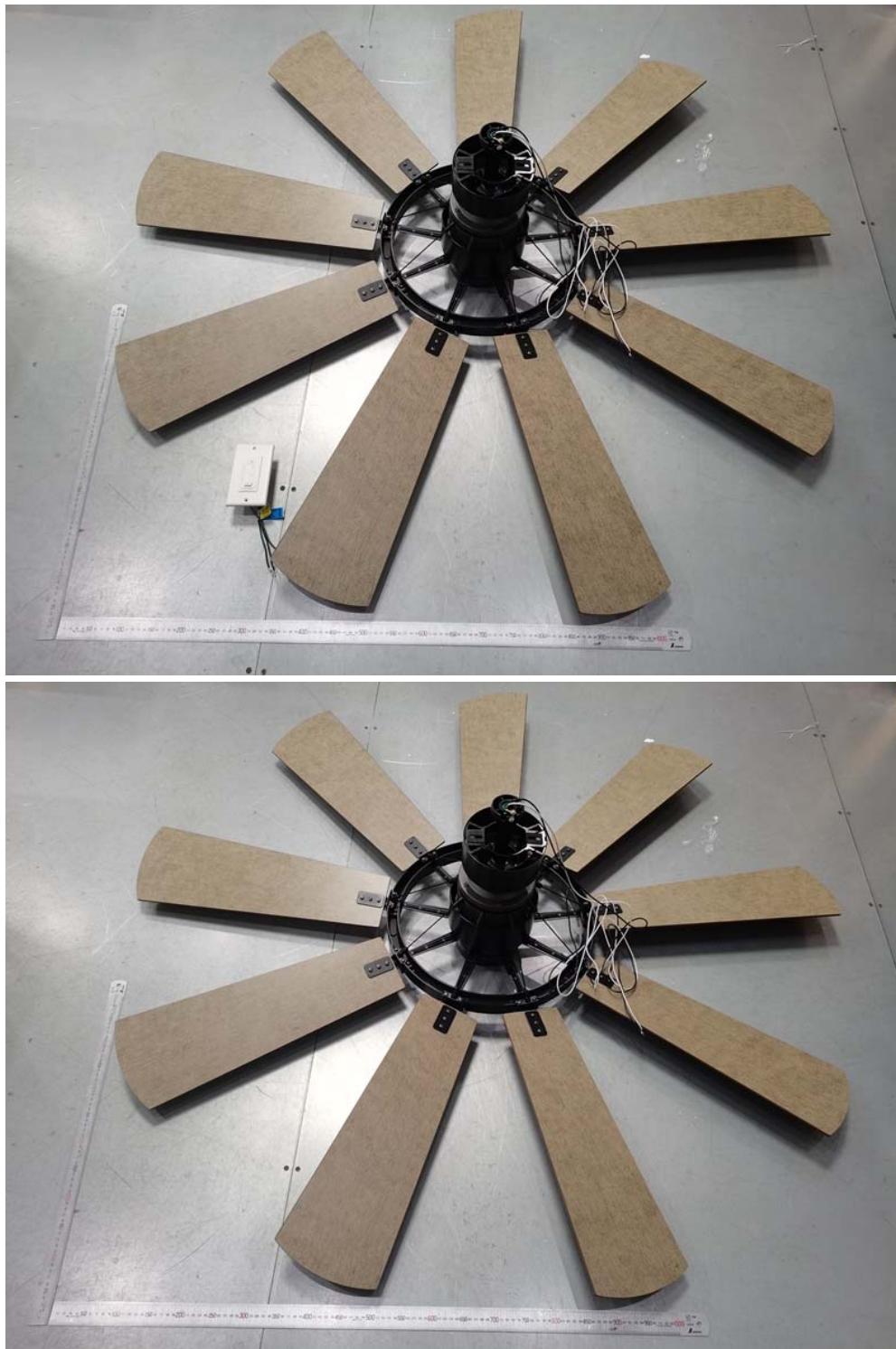
Radiated Emissions



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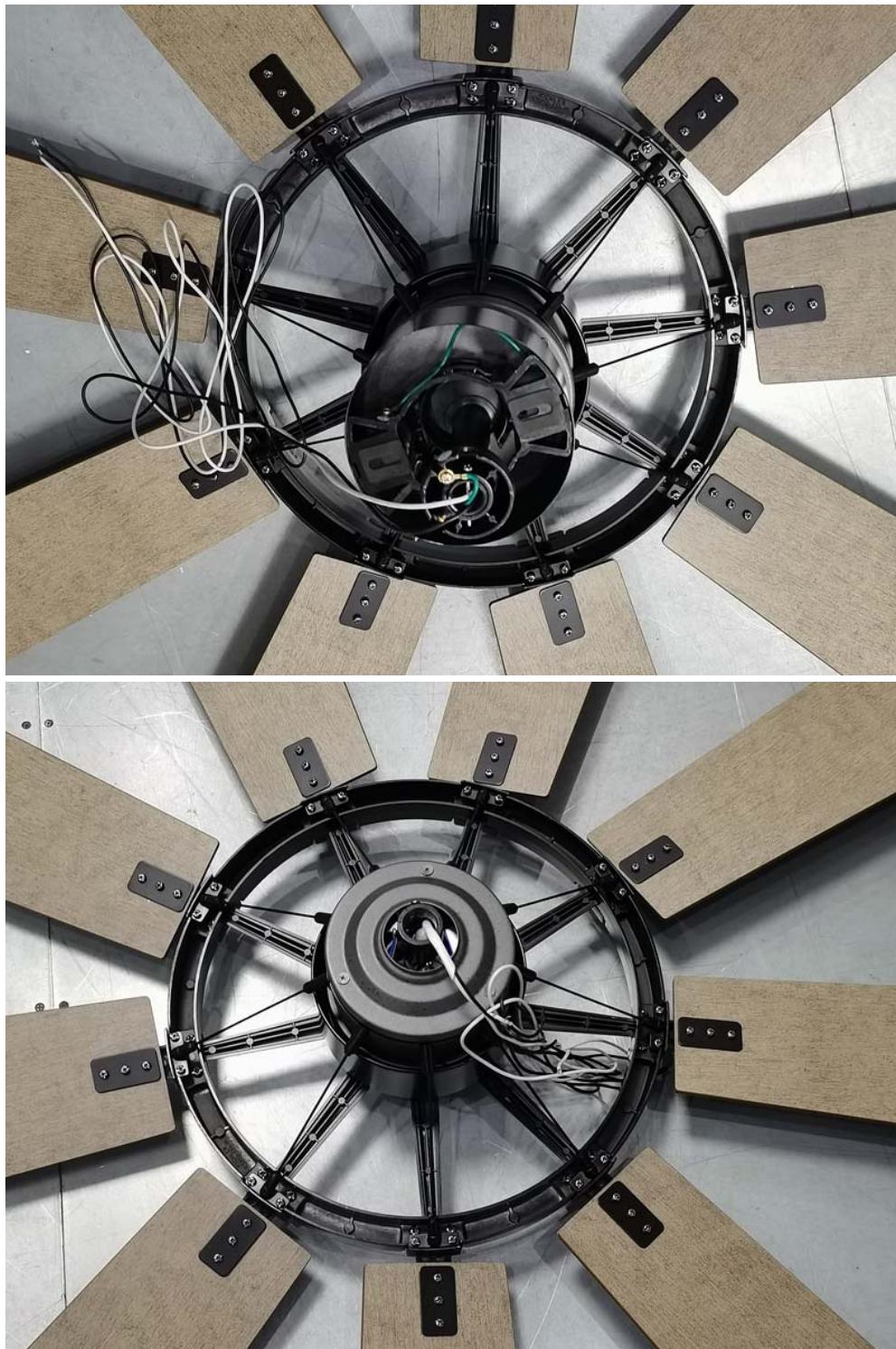
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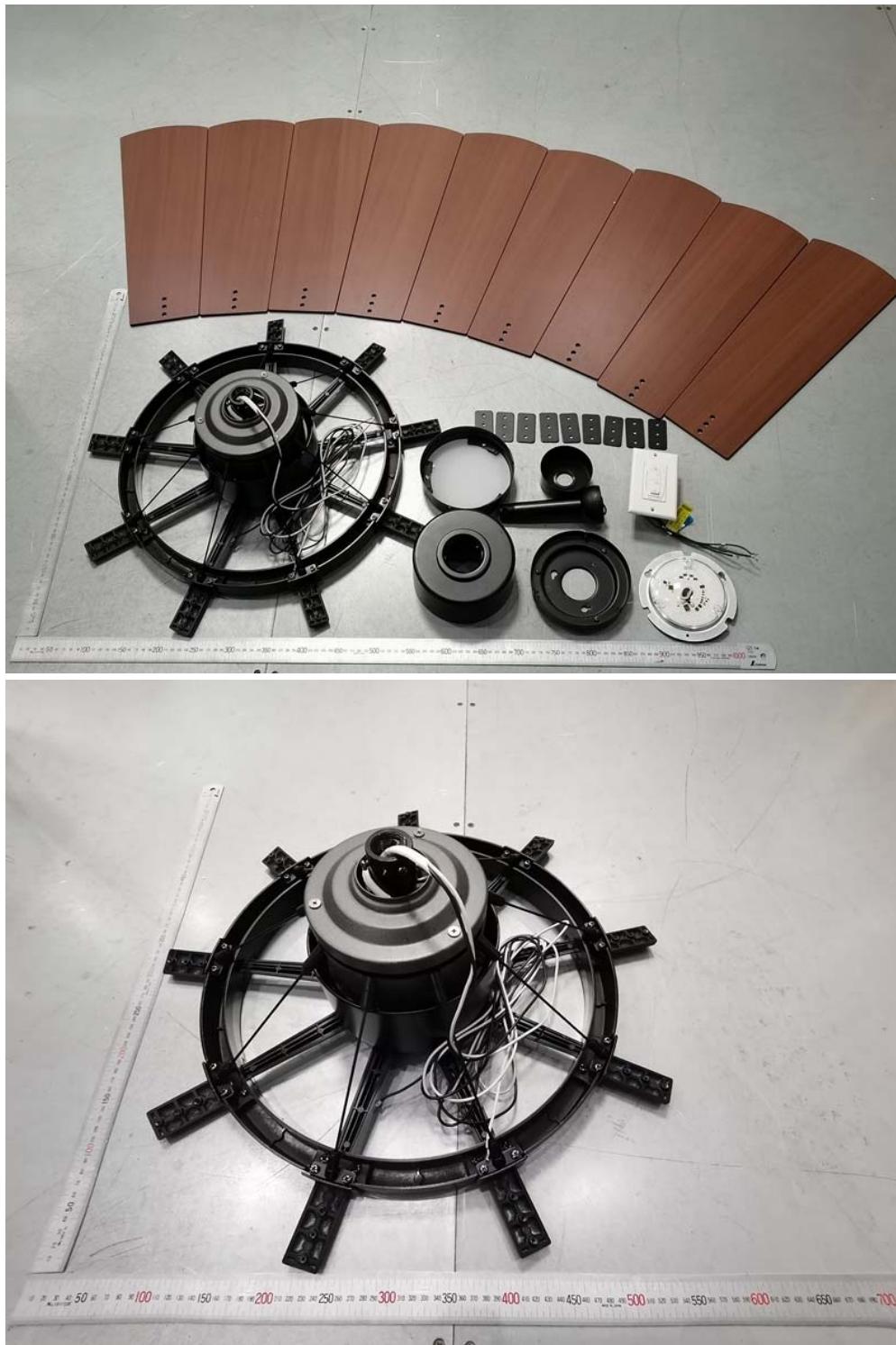
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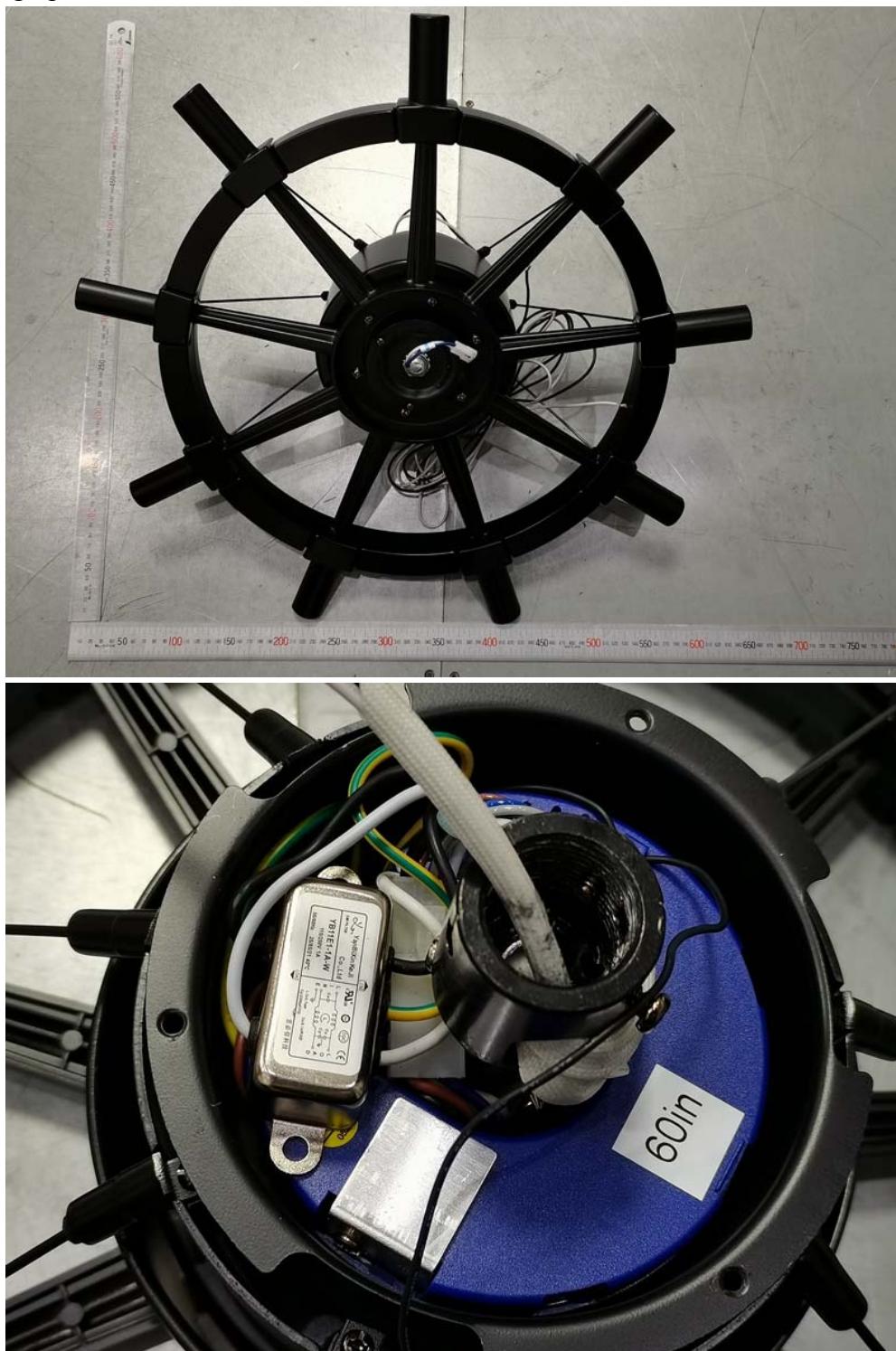
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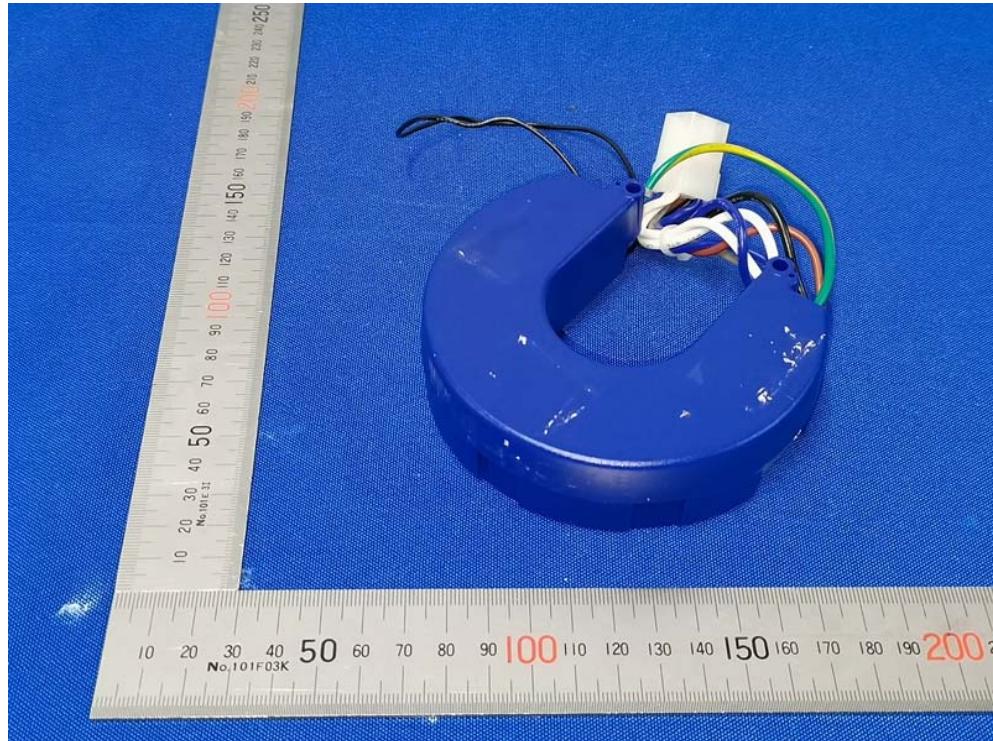
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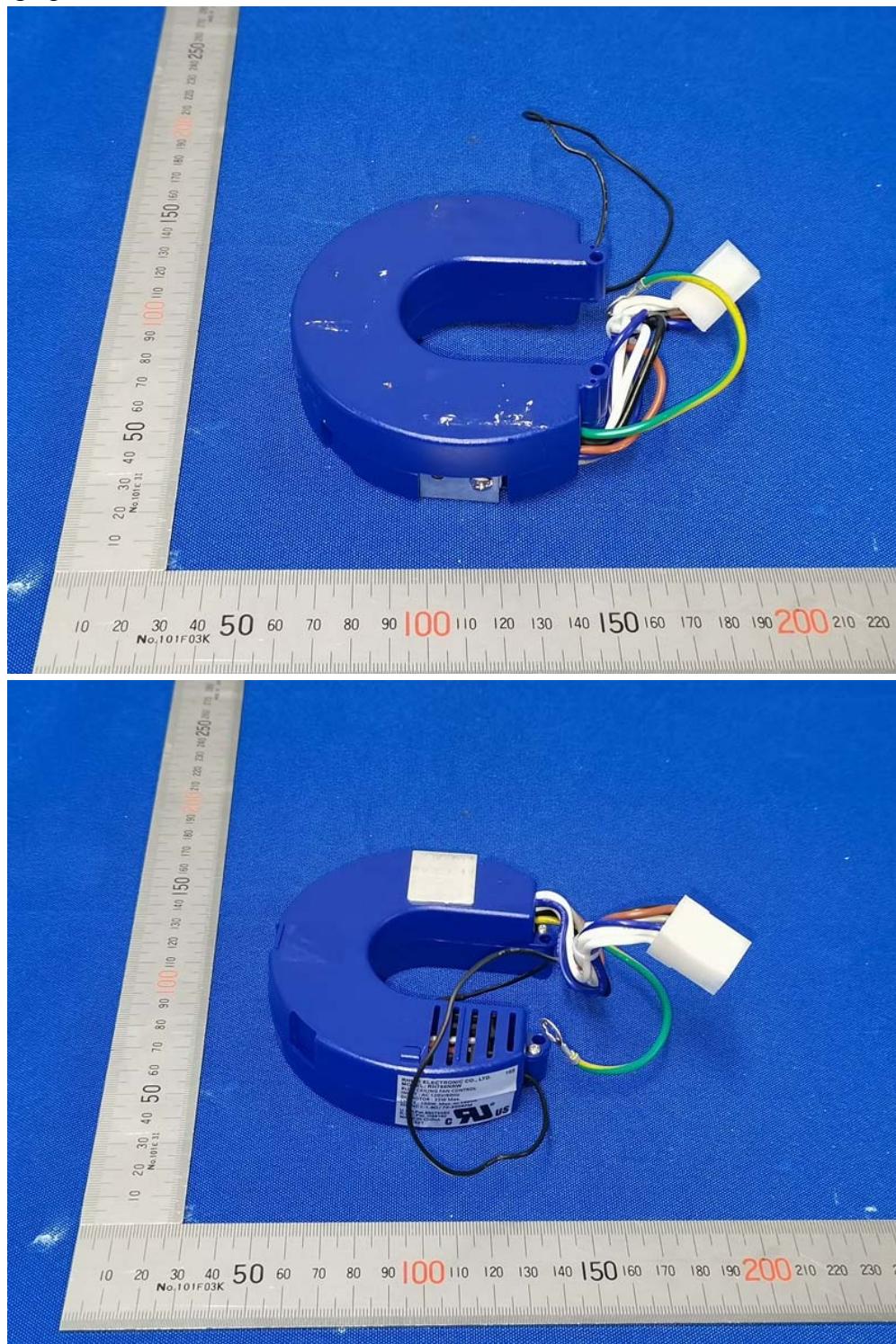
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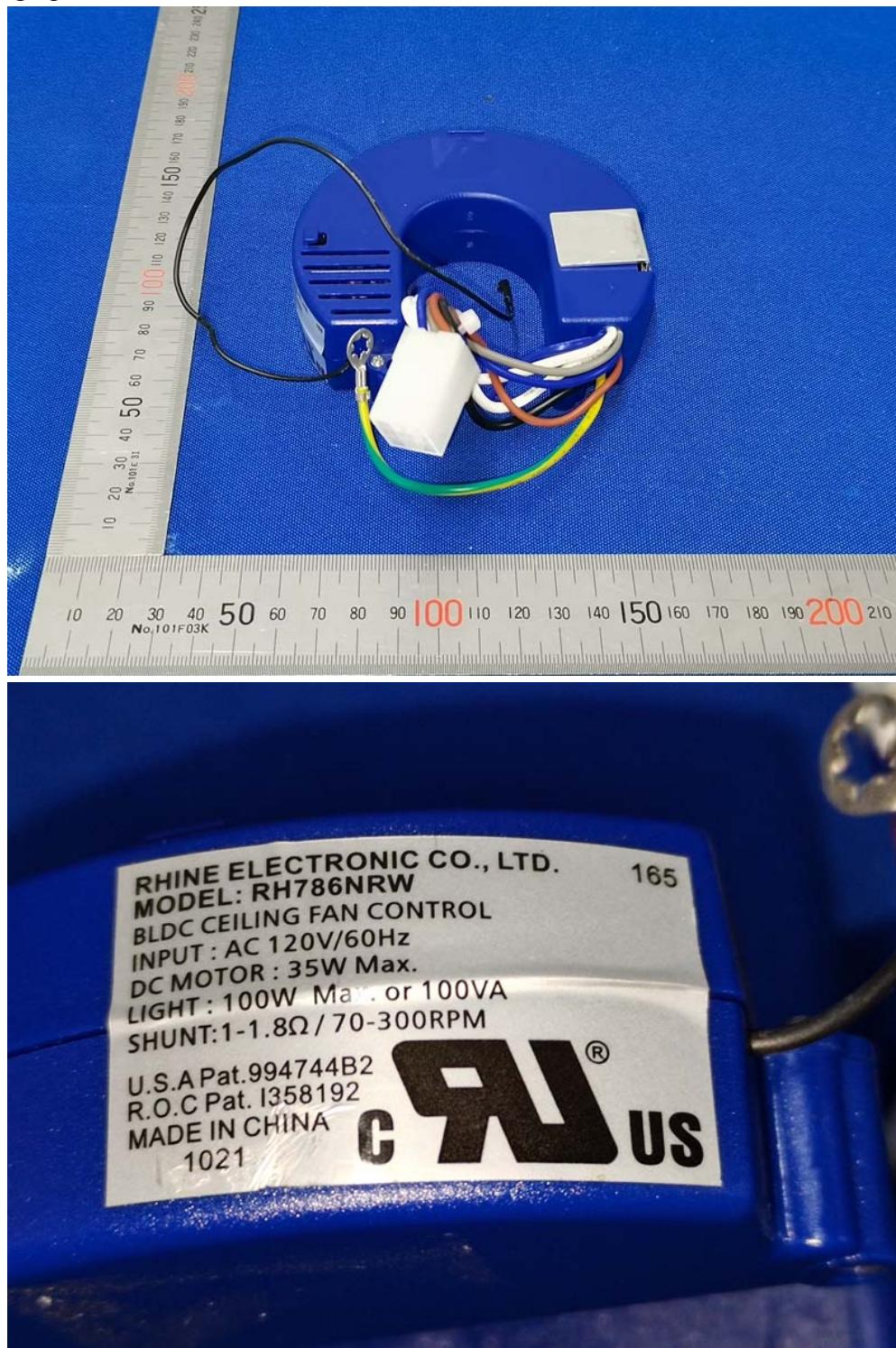
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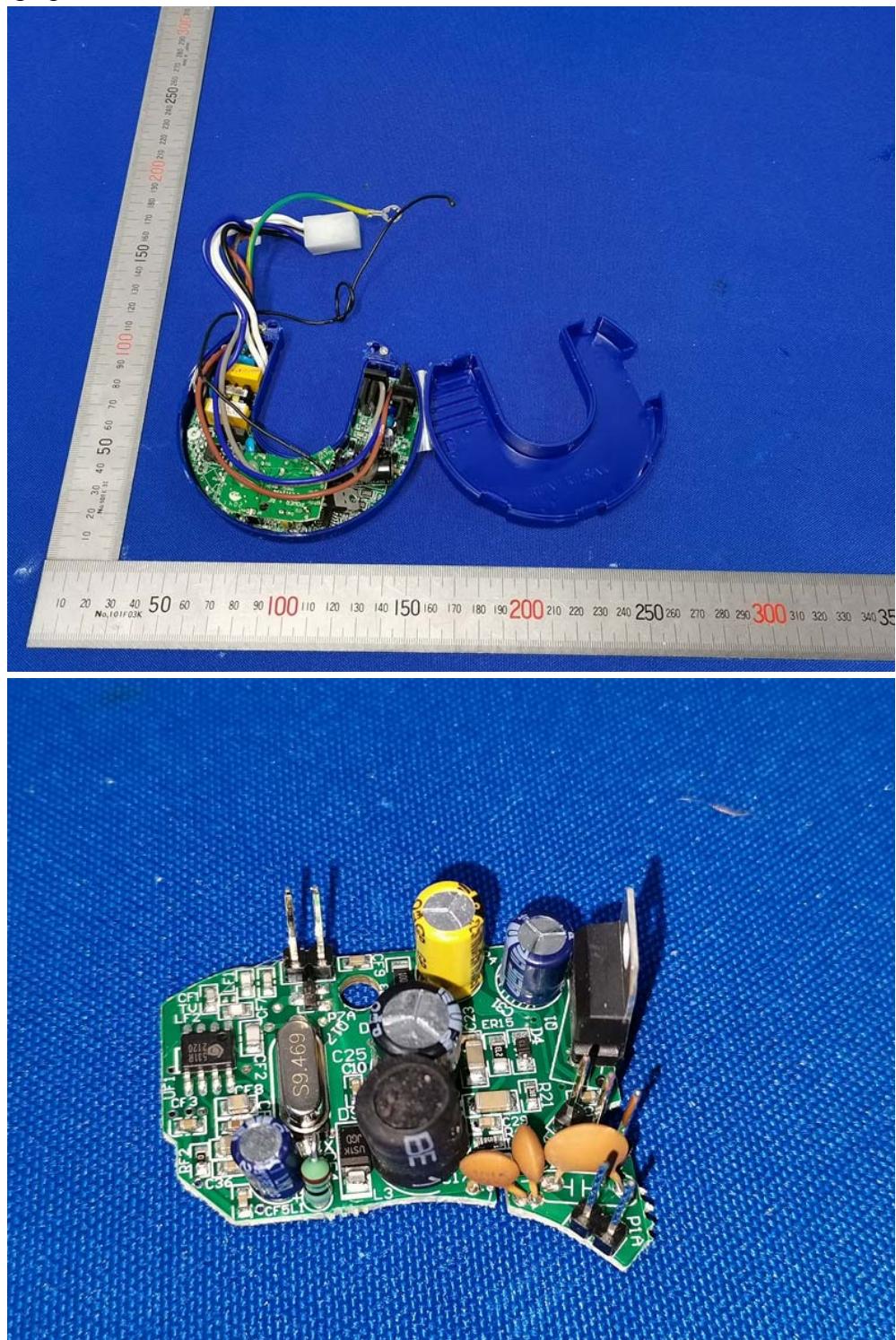
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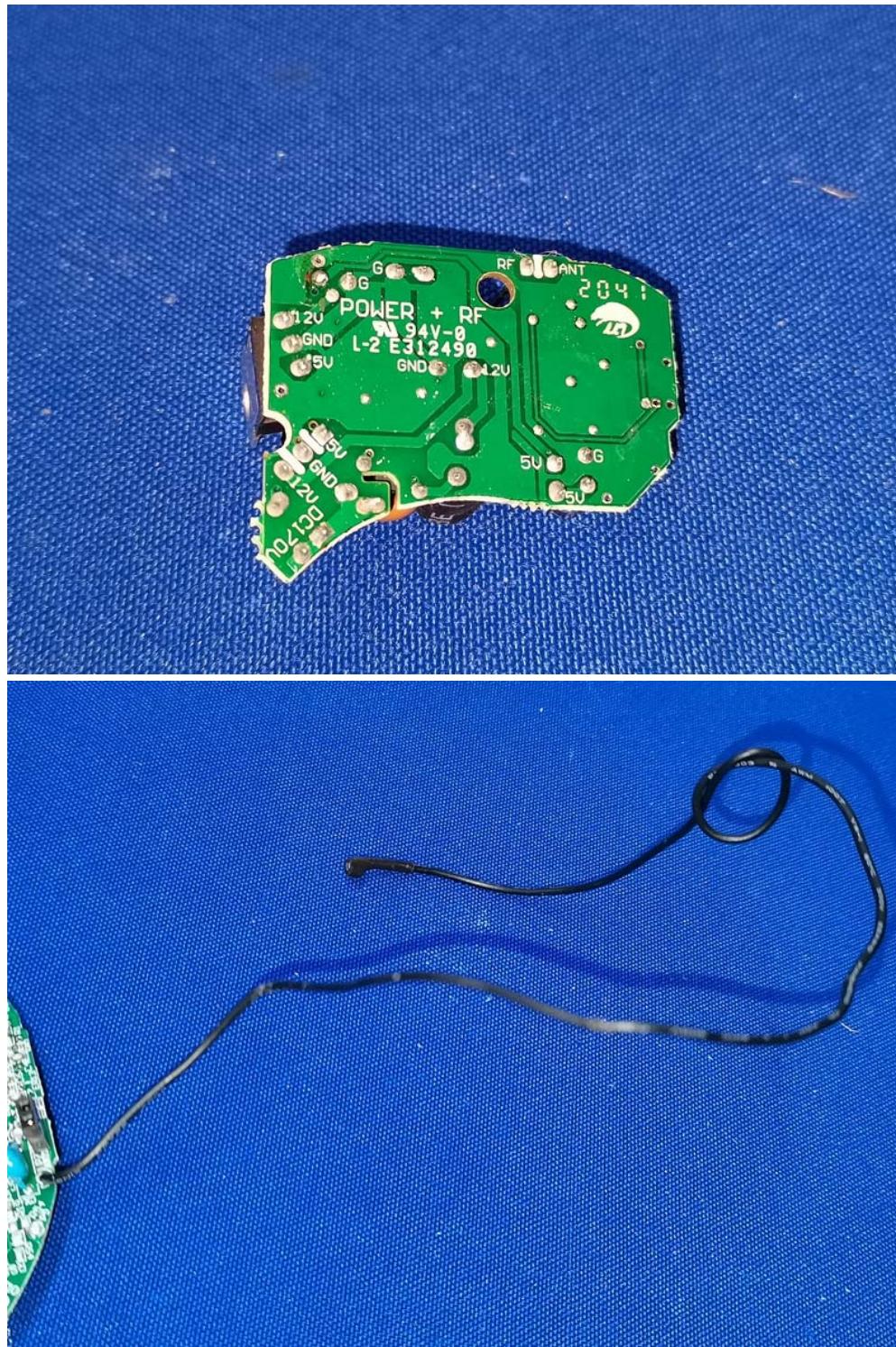
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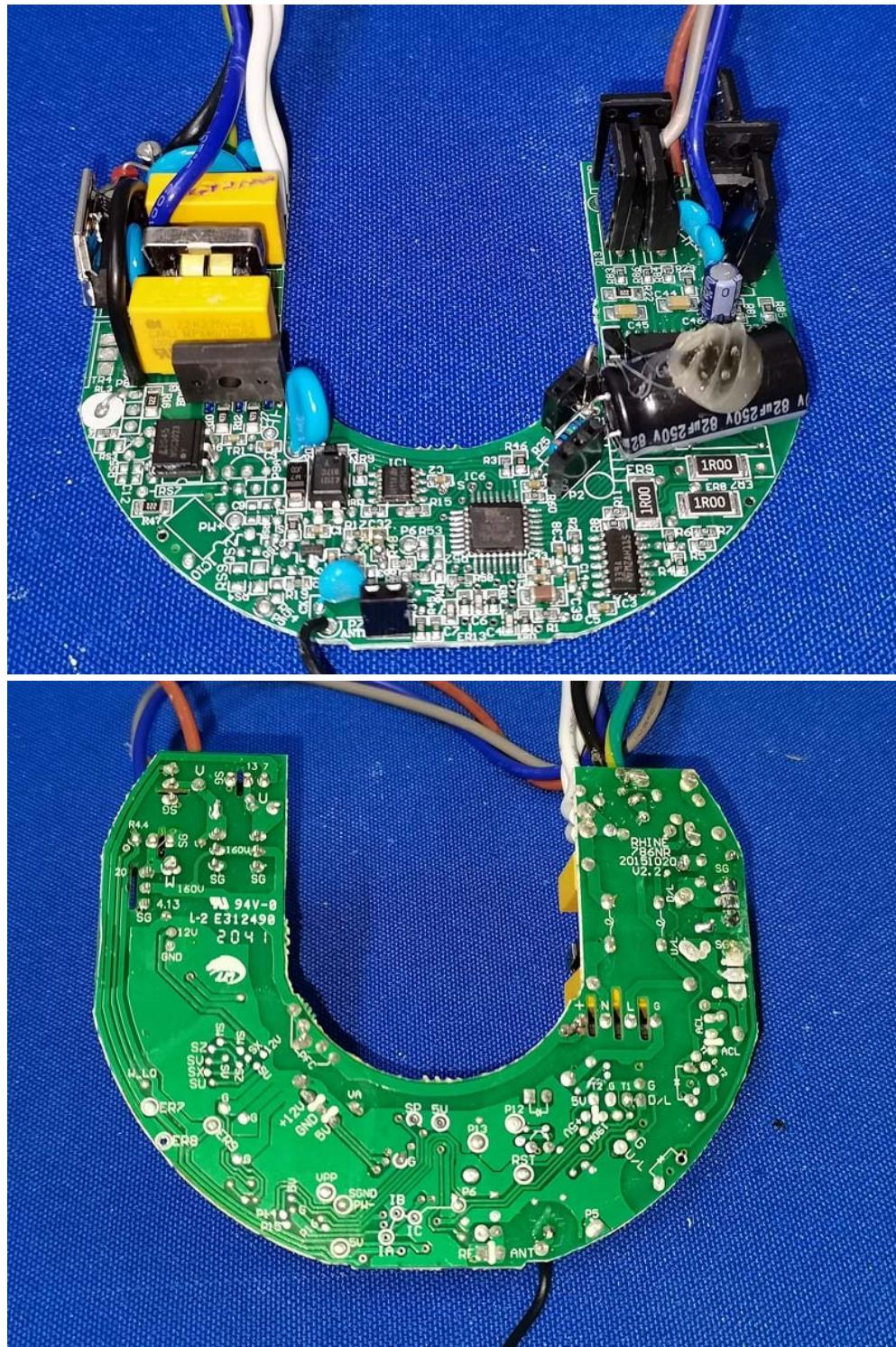
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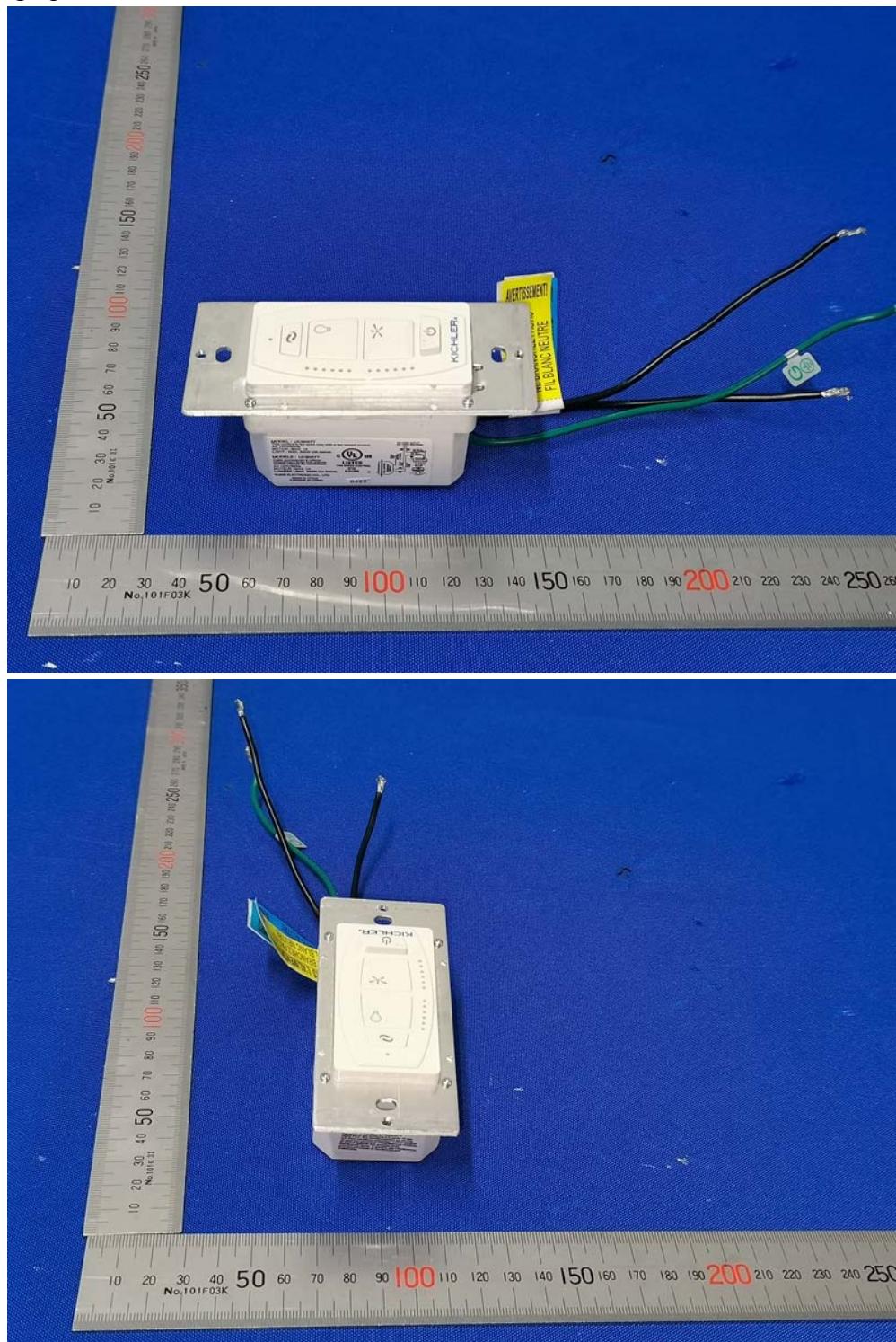
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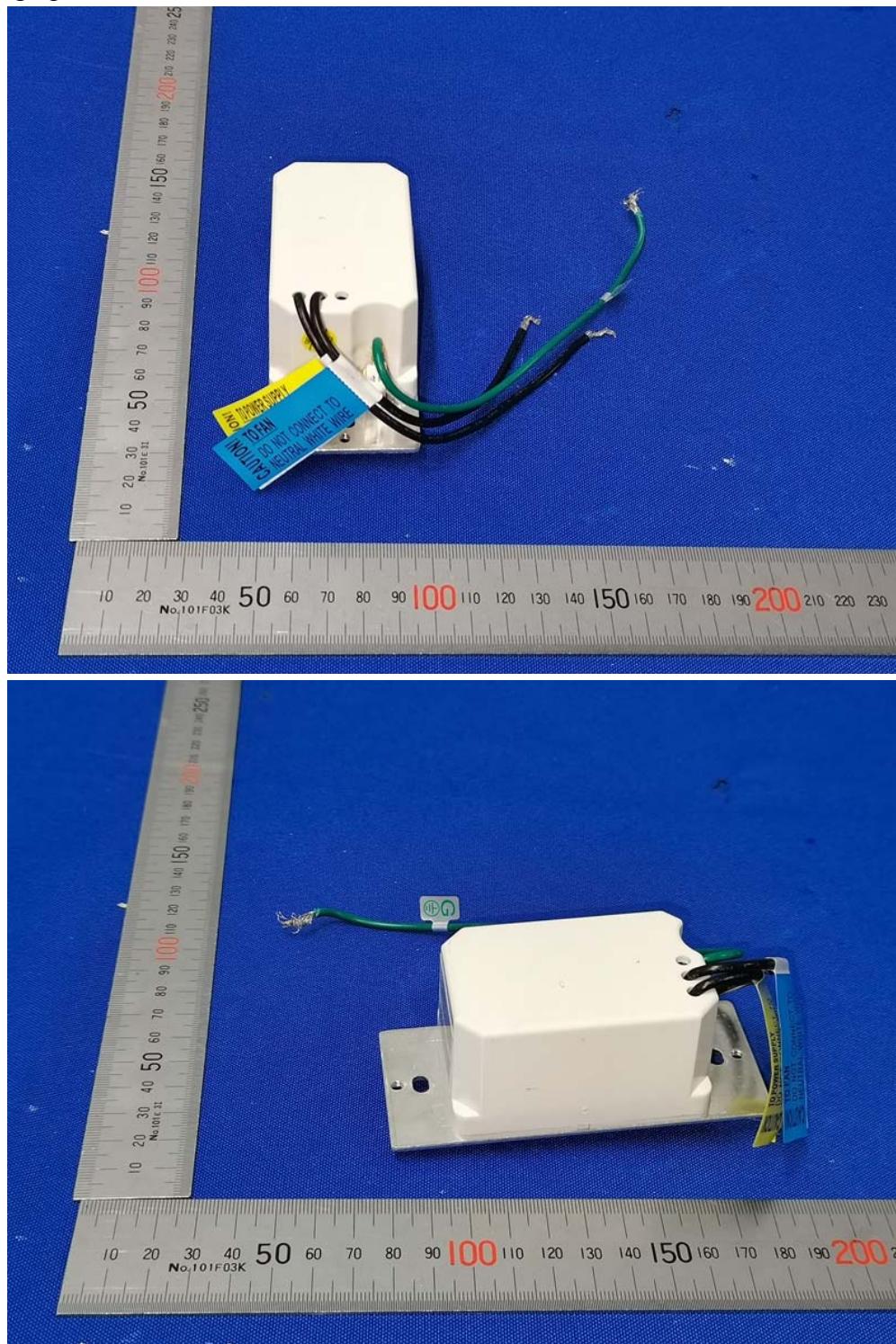
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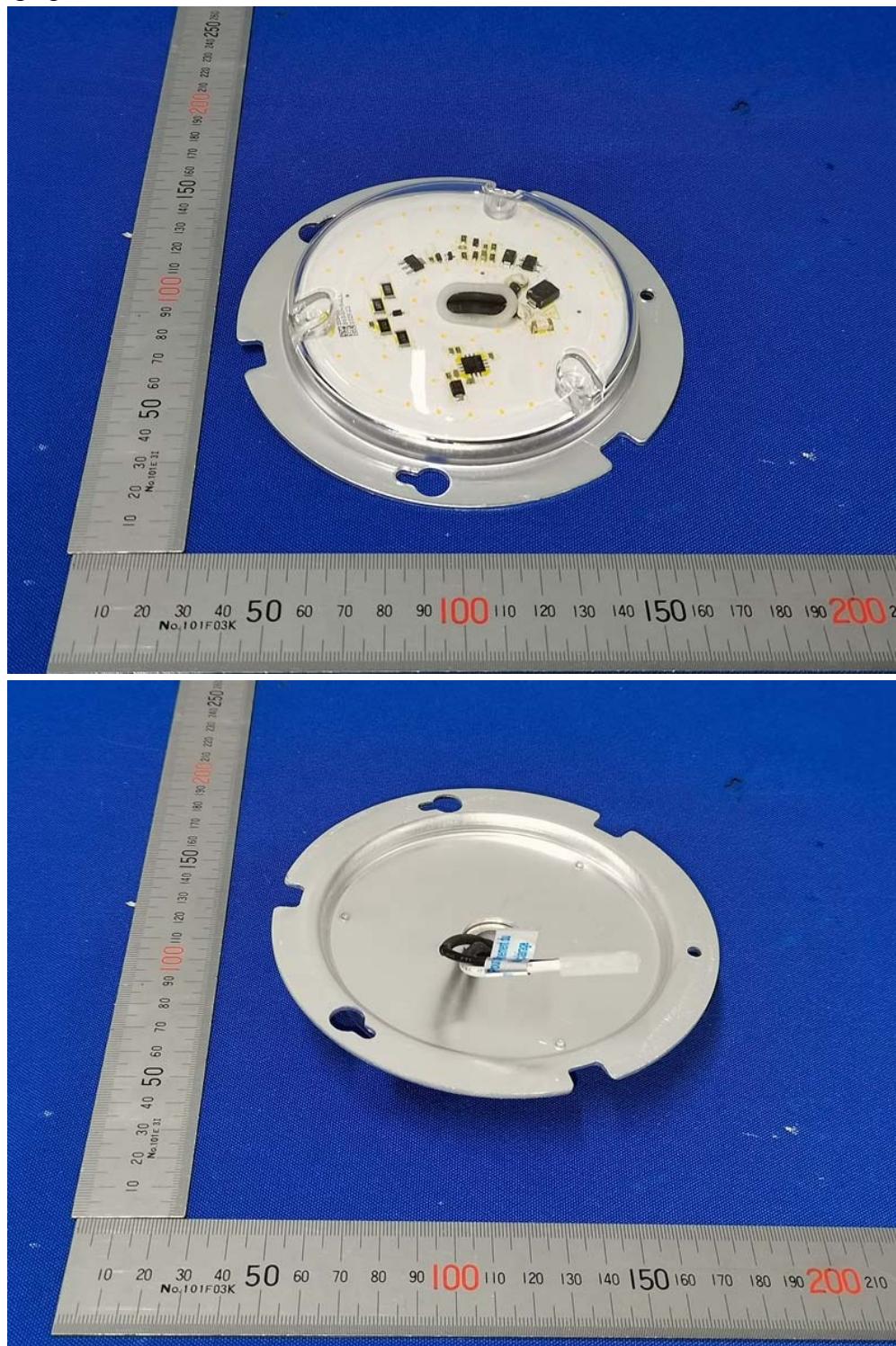
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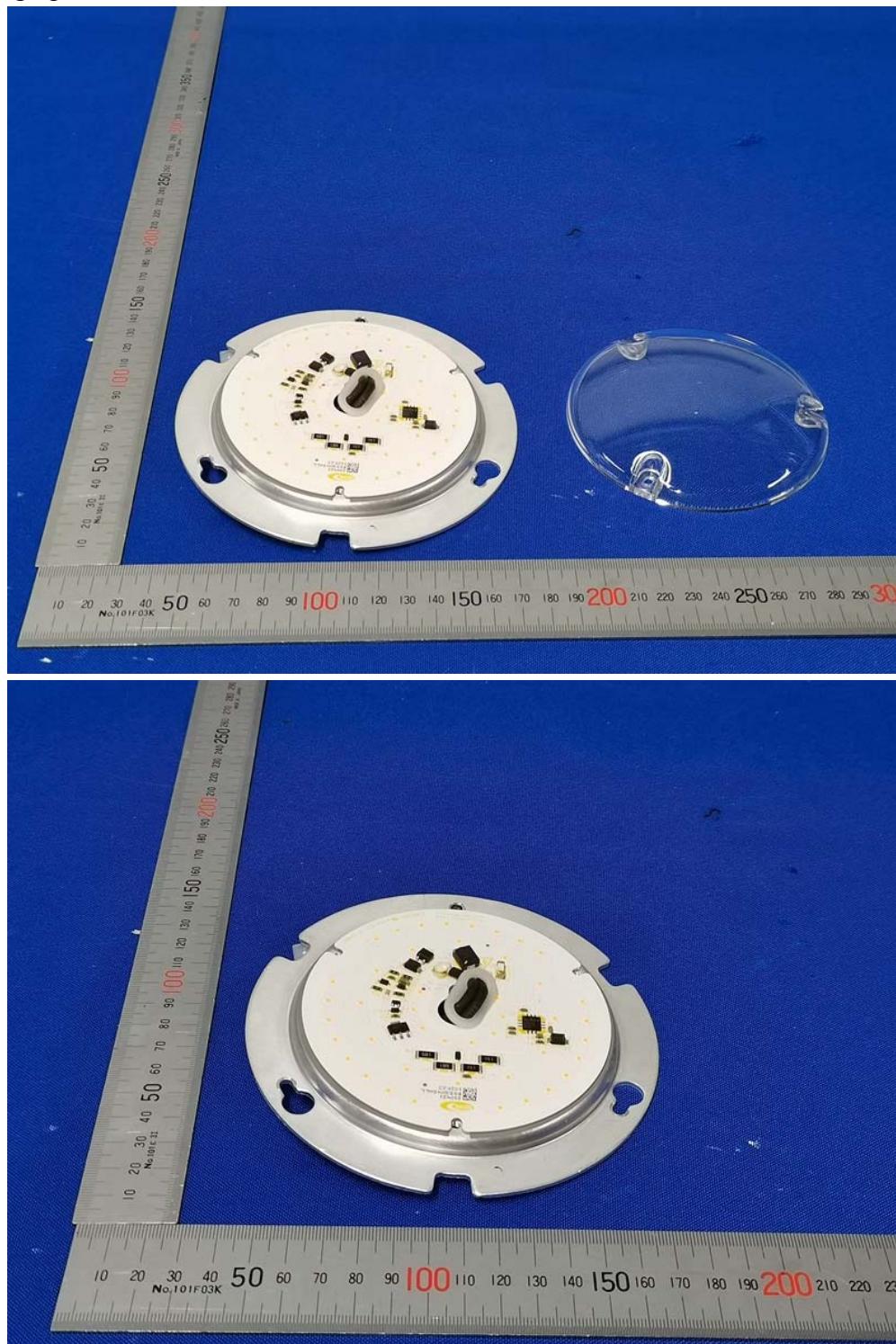


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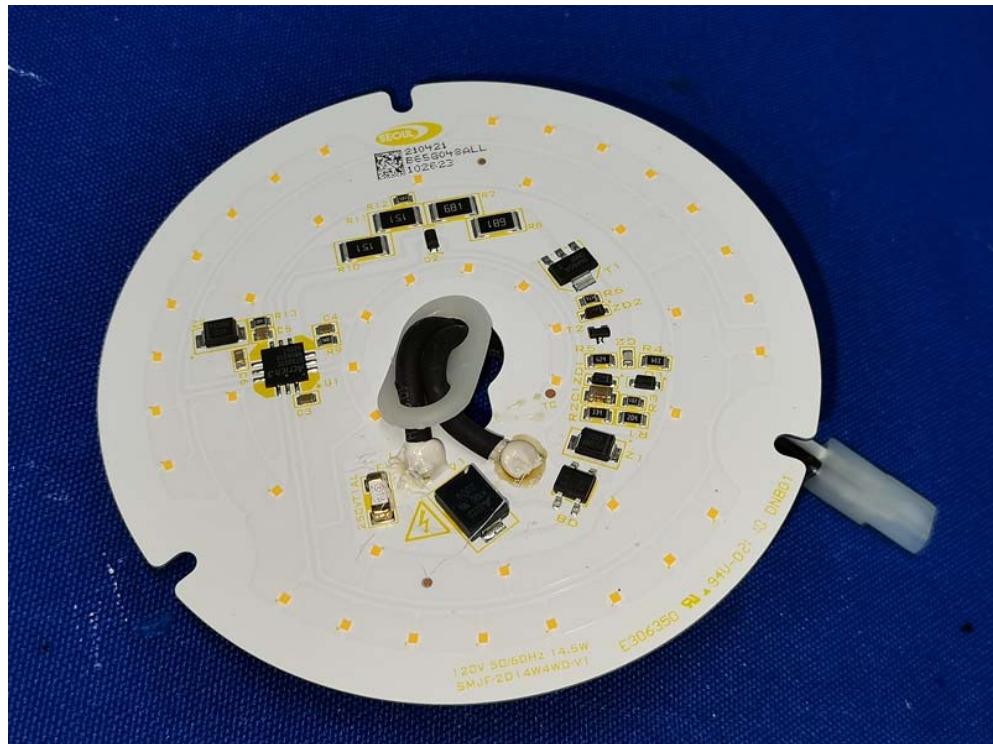
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**End of The Report**

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