



Report No.: TW2203074-01E

File Reference No.: 2022-03-22

Applicant: KICHLER LIGHTING LLC

Product: 56"Icon

Trademark: KICHLER

Model No.: 56-ICON, 300395

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: March 22, 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



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 17025:2005 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

CAB identifier: CN0033

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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: 7711 E. PLEASANT VALLEY RD PO BOX 318010 CLEVELAND OH 44131-8010
Telephone: 216-573-1000
Fax: 216-643-3633

1.3 Description of EUT

Product: 56"Icon
Manufacturer: Chienlun Industries (zhongshan) Ltd..
Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451
Trademark: KICHLER
Model Number: 56-ICON, 300395
Rating: Input: 120V~, 60Hz, Fan W/O Light Kit: 0.6A, w/o light 40W; Output: w/light 1.1A, w/light 63W
Rx Frequency: 303.779MHz

1.4 Submitted Sample: 1 pc

1.5 Test Duration

Date of Receipt of Application: March 04, 2022
Date of Receipt of Test Item: March 04, 2022
Date of Test: March 04, 2022 ~ March 22, 2022

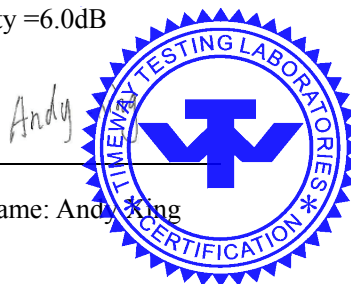
1.6 Test Uncertainty

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: Andy King



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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	2021.06.18	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2021.06.18	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2021.06.18	1 Year
LISN	ESH3-Z5	100294	RS	2021.06.18	1 Year
LISN	ESH3-Z5	100253	RS	2021.06.18	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	2021.06.18	1 Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2021.06.18	1 Year
Amplifier	BBV9743	#218	HP/Agilent	2021.06.18	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	2021.06.18	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

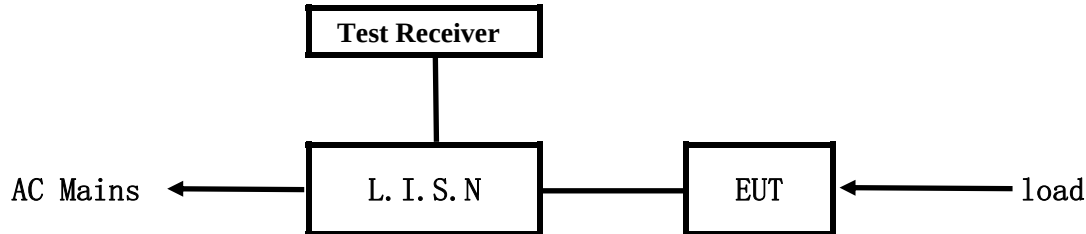
FCC Part 15 Subpart B

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4.0 Conducted Power line Test

4.1 Schematics of the test



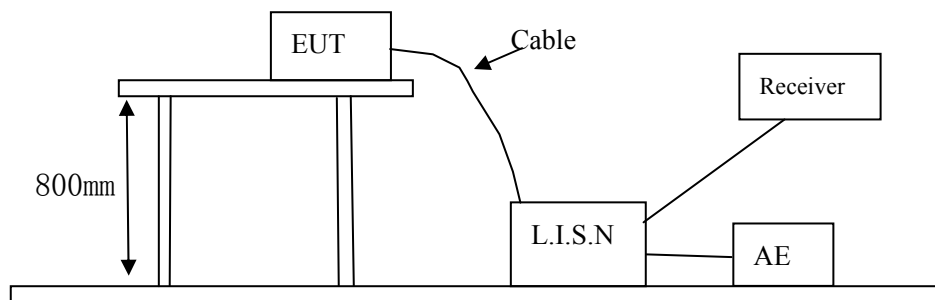
EUT: Equipment Under Test

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(μ V)		Class B Limits dB(μ V)	
	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)

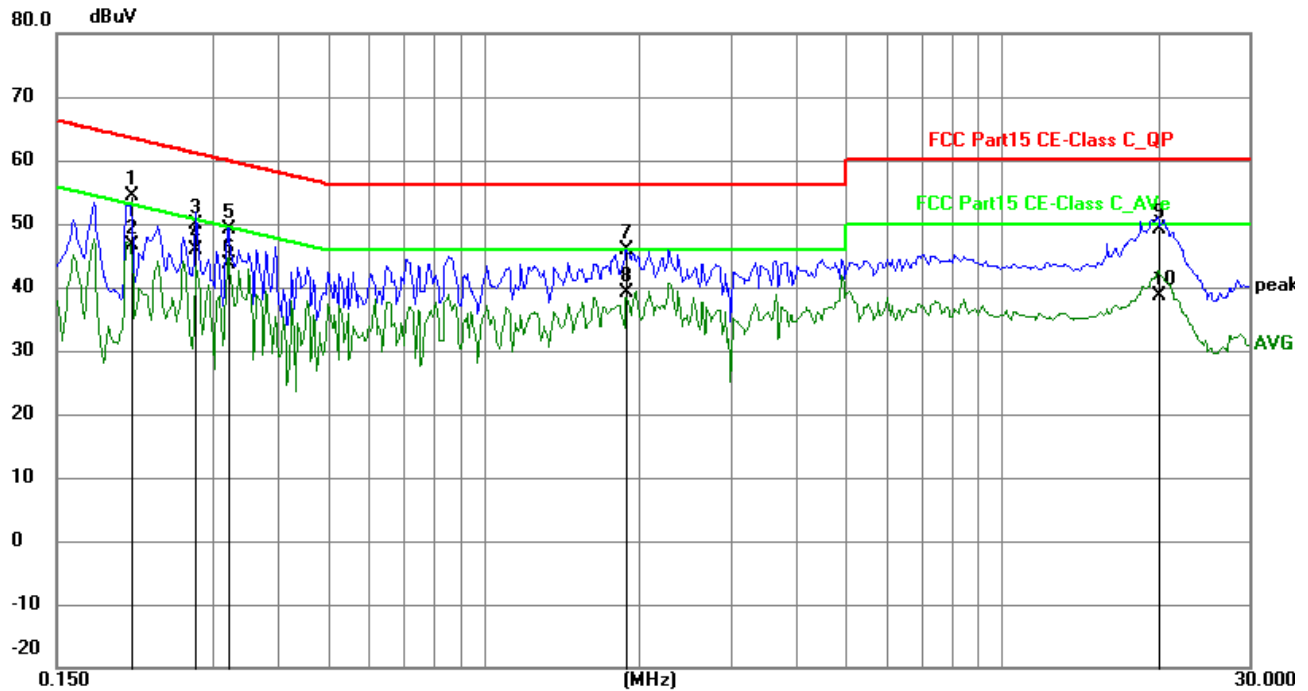
EUT Operating Environment

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	0.2085	44.71	9.75	54.46	63.26	-8.80	QP	P
2	0.2085	37.00	9.75	46.75	53.26	-6.51	AVG	P
3	0.2787	40.15	9.76	49.91	60.85	-10.94	QP	P
4	0.2787	36.03	9.76	45.79	50.85	-5.06	AVG	P
5	0.3215	39.32	9.76	49.08	59.67	-10.59	QP	P
6	0.3215	33.82	9.76	43.58	49.67	-6.09	AVG	P
7	1.8855	36.13	9.80	45.93	56.00	-10.07	QP	P
8	1.8855	29.34	9.80	39.14	46.00	-6.86	AVG	P
9	19.9767	38.46	10.68	49.14	60.00	-10.86	QP	P
10	19.9767	28.01	10.68	38.69	50.00	-11.31	AVG	P

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

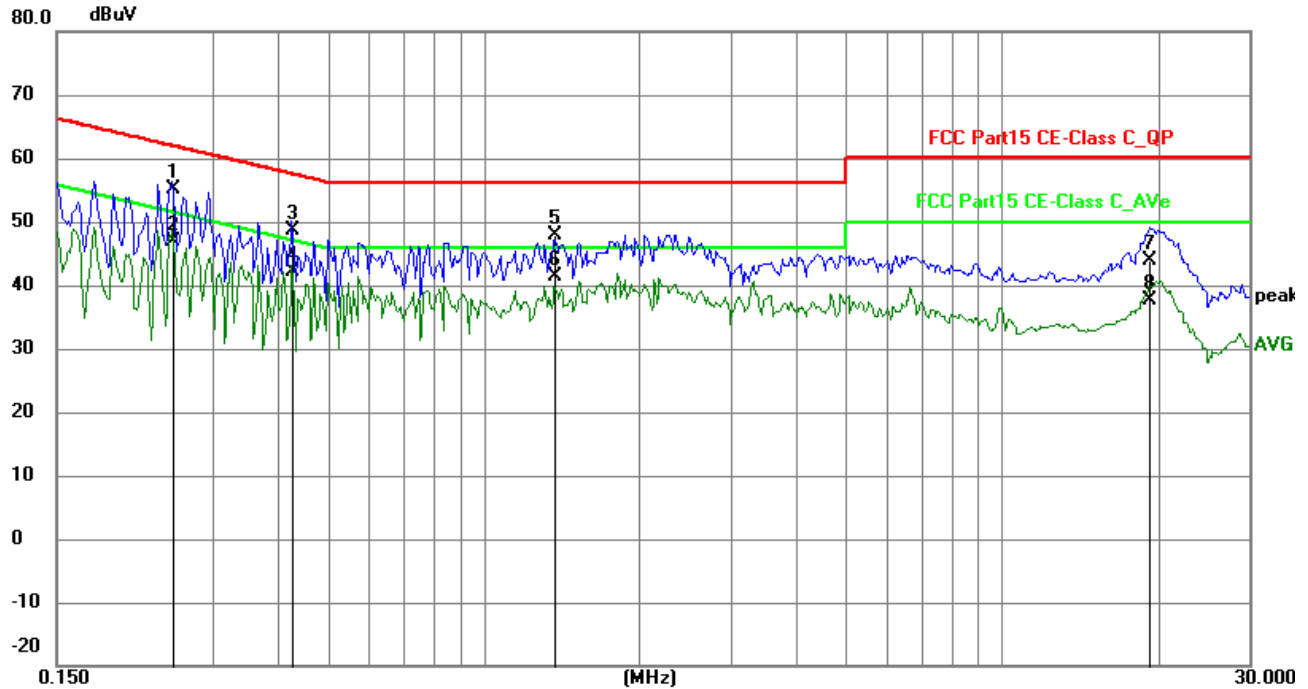
EUT Operating Environment

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

EUT set Condition: Receiving Mode

Results: Pass

Please refer to following diagram for individual



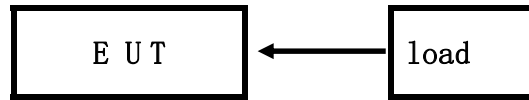
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2514	45.31	9.75	55.06	61.71	-6.65	QP	P
2	0.2514	37.23	9.75	46.98	51.71	-4.73	AVG	P
3	0.4269	38.94	9.77	48.71	57.31	-8.60	QP	P
4	0.4269	32.46	9.77	42.23	47.31	-5.08	AVG	P
5	1.3707	38.02	9.79	47.81	56.00	-8.19	QP	P
6	1.3707	31.50	9.79	41.29	46.00	-4.71	AVG	P
7	19.2786	33.29	10.64	43.93	60.00	-16.07	QP	P
8	19.2786	26.91	10.64	37.55	50.00	-12.45	AVG	P

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

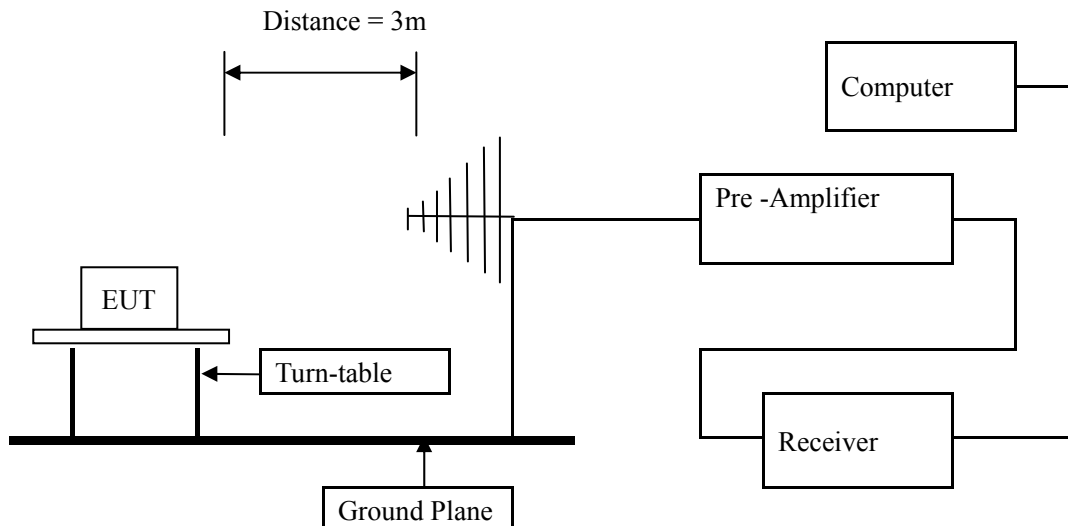


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 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 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

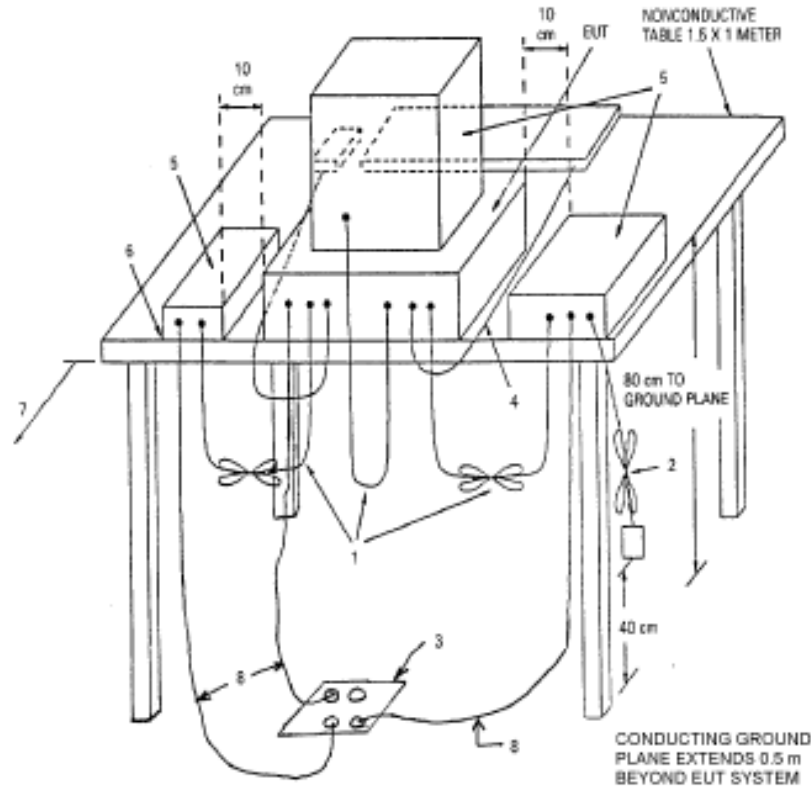


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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ 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

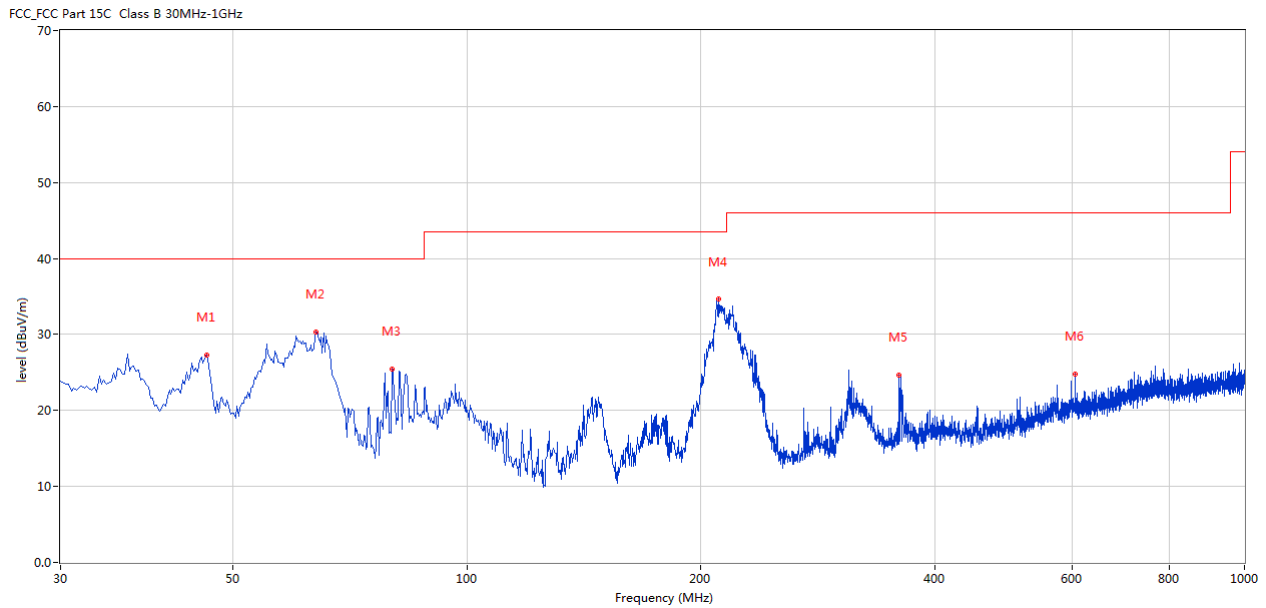
The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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

Project Number:	CASE1	Test Time:	2022-03-11_20.20.09
EUT Name:	56"Icon	Test Engineer:	LUCK
Manufacturer:	Chienlun Industries (zhongshan) Ltd..	Test Standard:	FCC PART 15B
Model:	56-ICON	Work Addition:	Receiving
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	46.243	27.26	-11.41	40.0	-12.74	Peak	54.00	100	Horizontal	Pass
2	63.942	30.34	-13.32	40.0	-9.66	Peak	108.00	100	Horizontal	Pass
3	80.185	25.46	-17.41	40.0	-14.54	Peak	63.00	100	Horizontal	Pass
4	210.860	34.61	-13.64	43.5	-8.89	Peak	359.00	100	Horizontal	Pass
5	359.718	24.71	-9.44	46.0	-21.29	Peak	46.00	100	Horizontal	Pass
6	606.278	24.80	-5.00	46.0	-21.20	Peak	63.00	100	Horizontal	Pass

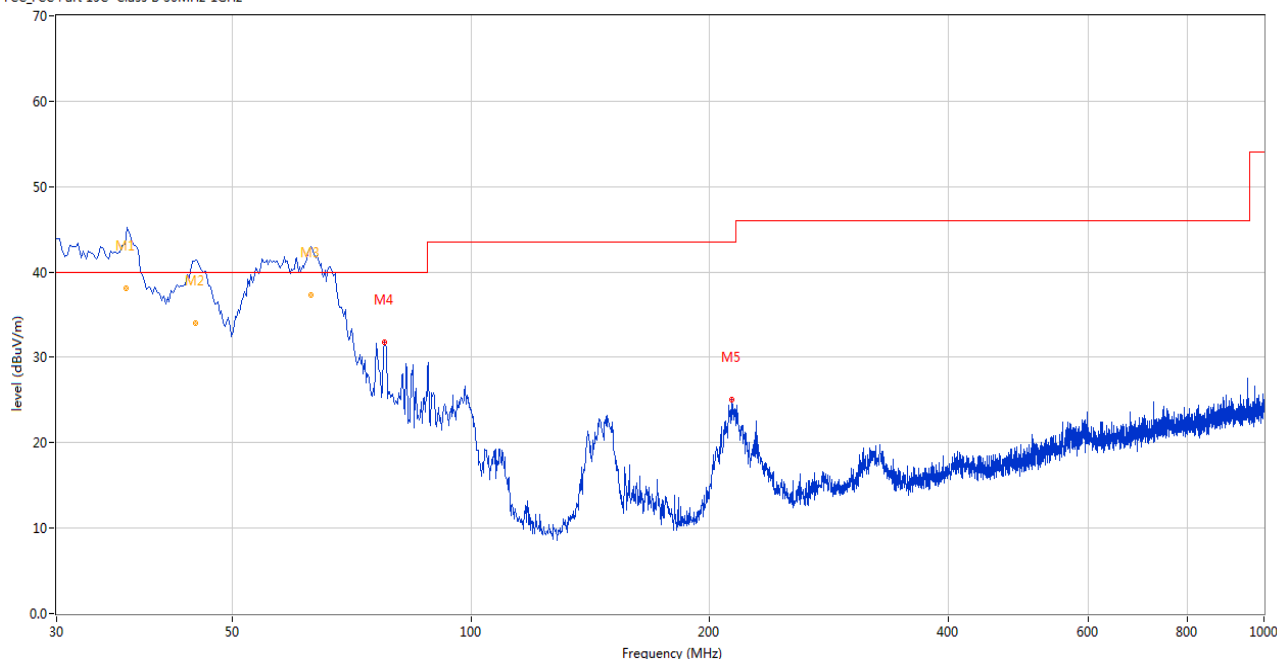
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B: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE1	Test Time:	2022-03-11_20.17.34
EUT Name:	56"Icon	Test Engineer:	LUCK
Manufacturer:	Chienlun Industries (zhongshan) Ltd..	Test Standard:	FCC PART 15B
Model:	56-ICON	Work Addition:	Receiving
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	36.744	44.52	-13.31	40.0	4.52	Peak	311.00	100	Vertical	N/A
1*	36.744	38.11	-13.31	40.0	-1.89	QP	311.00	100	Vertical	Pass
2	44.878	41.12	-11.41	40.0	1.12	Peak	72.00	100	Vertical	N/A
2*	44.878	33.95	-11.41	40.0	-6.05	QP	72.00	100	Vertical	Pass
3	62.889	44.16	-13.30	40.0	4.16	Peak	41.00	101	Vertical	N/A
3*	62.889	37.29	-13.30	40.0	-2.71	QP	41.00	101	Vertical	Pass
4	77.761	31.77	-17.54	40.0	-8.23	Peak	33.00	100	Vertical	Pass
5	213.284	25.11	-13.64	43.5	-18.39	Peak	41.00	100	Vertical	Pass

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

EUT Operating Environment

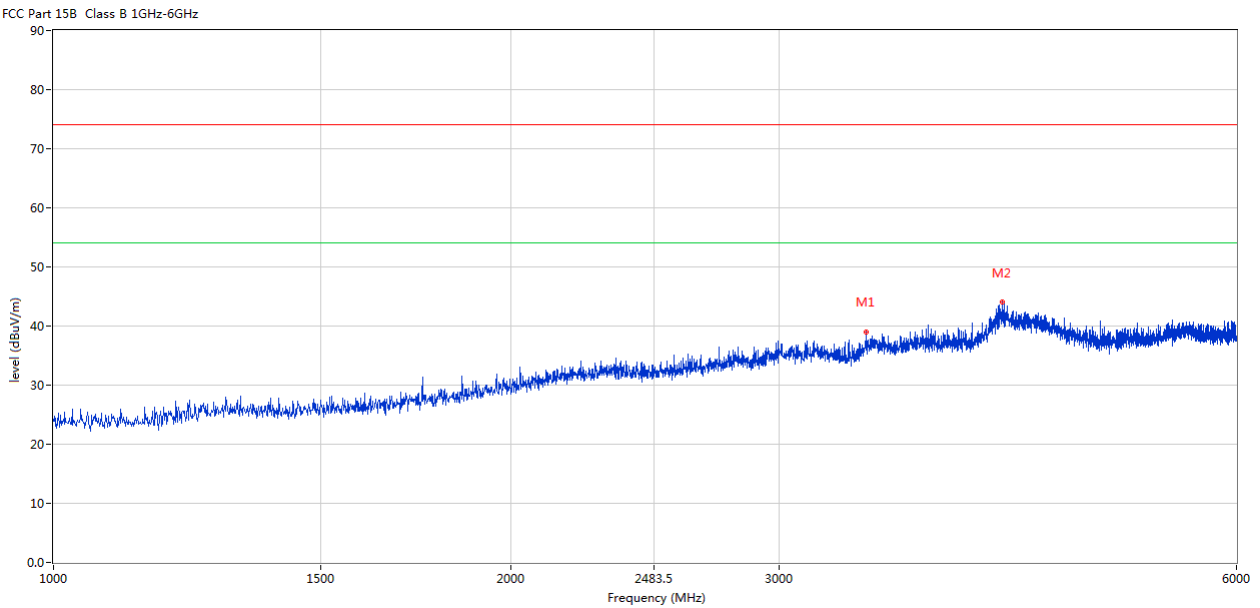
Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 kPa

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	3424.394	39.05	-1.62	74.0	-34.95	Peak	0.00	100	Horizontal	Pass
2	4207.948	44.06	1.62	74.0	-29.94	Peak	0.00	100	Horizontal	Pass

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

EUT Operating Environment

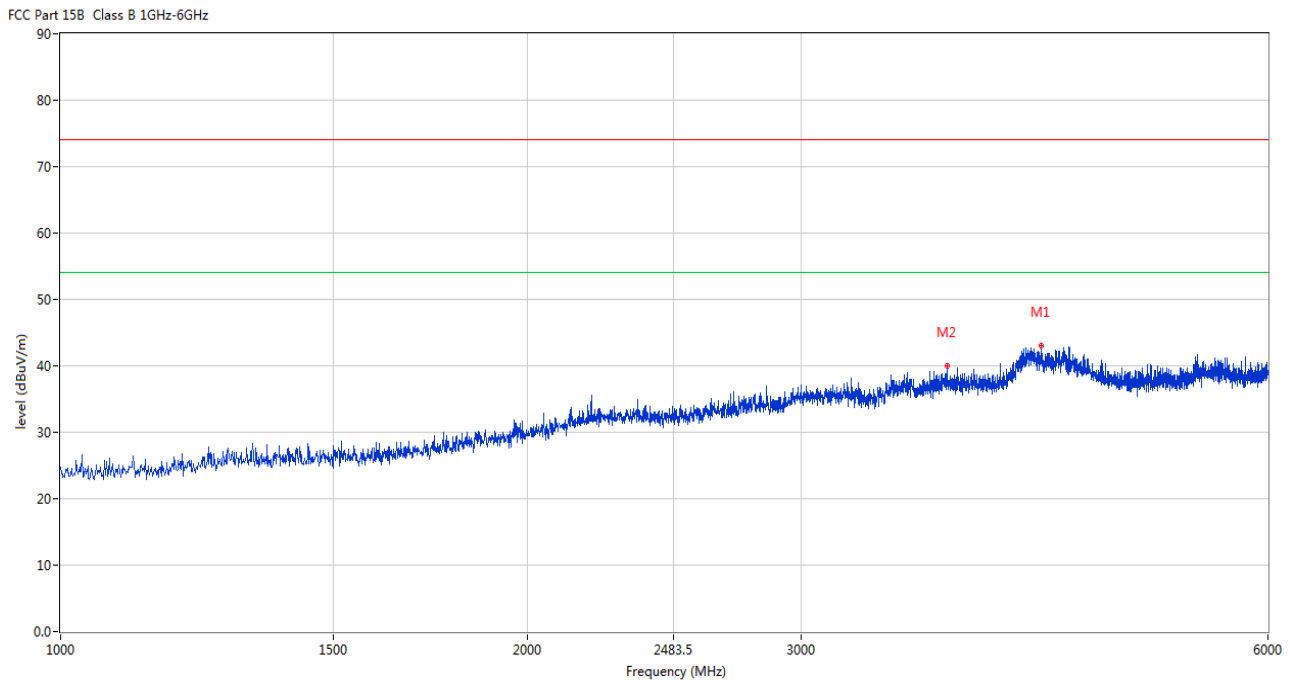
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

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	4287.928	43.09	1.81	74.0	-30.91	Peak	358.00	100	Vertical	Pass
2	3728.068	40.01	-0.07	74.0	-33.99	Peak	360.00	100	Vertical	Pass

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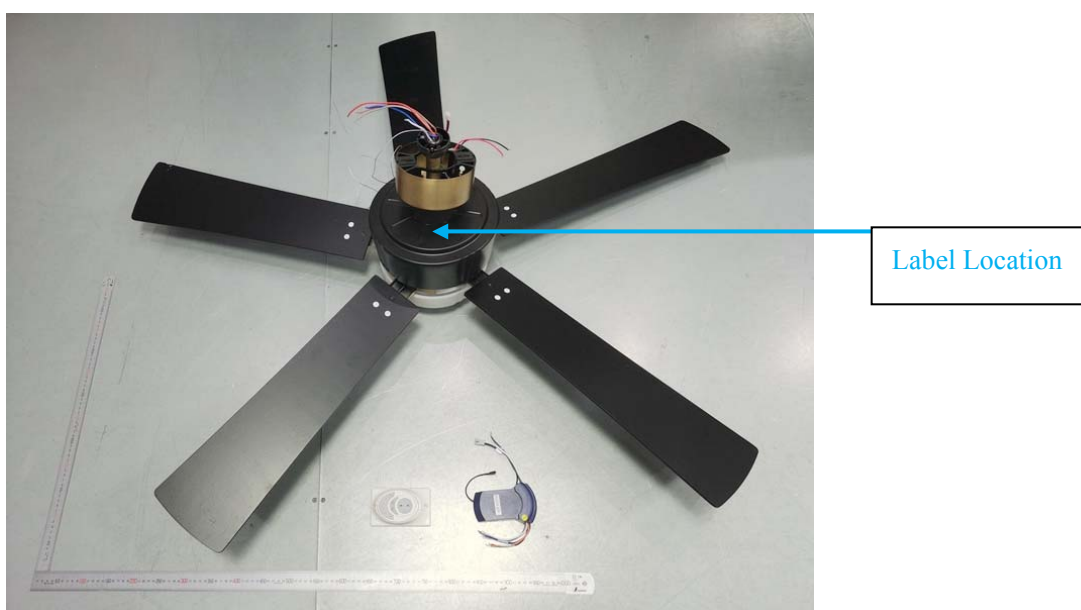


6.0 FCC Label

FCC ID: YNE-56ICONR

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.



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7.0 Photo of testing

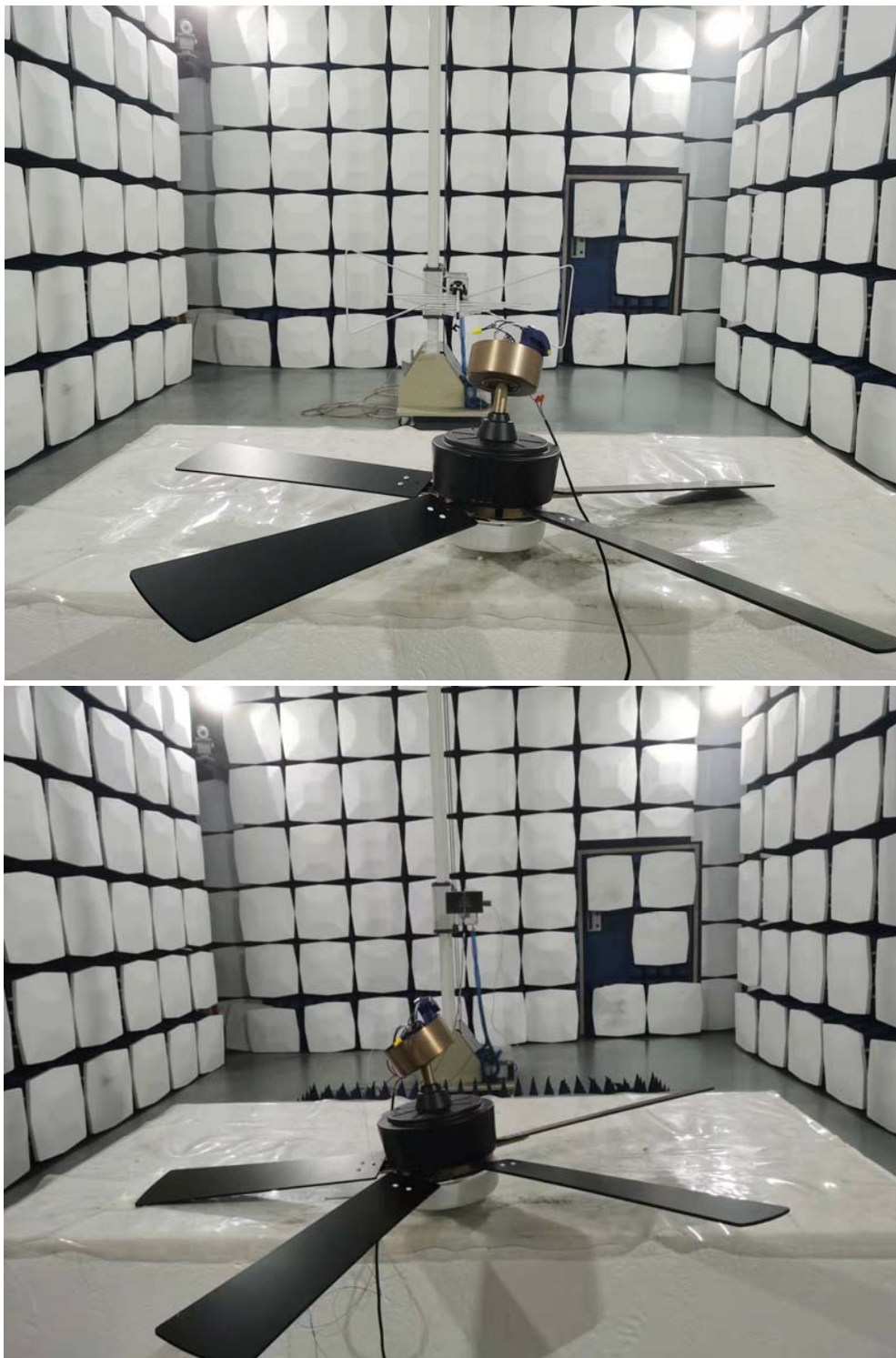
Conducted Emissions



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Radiated Emissions



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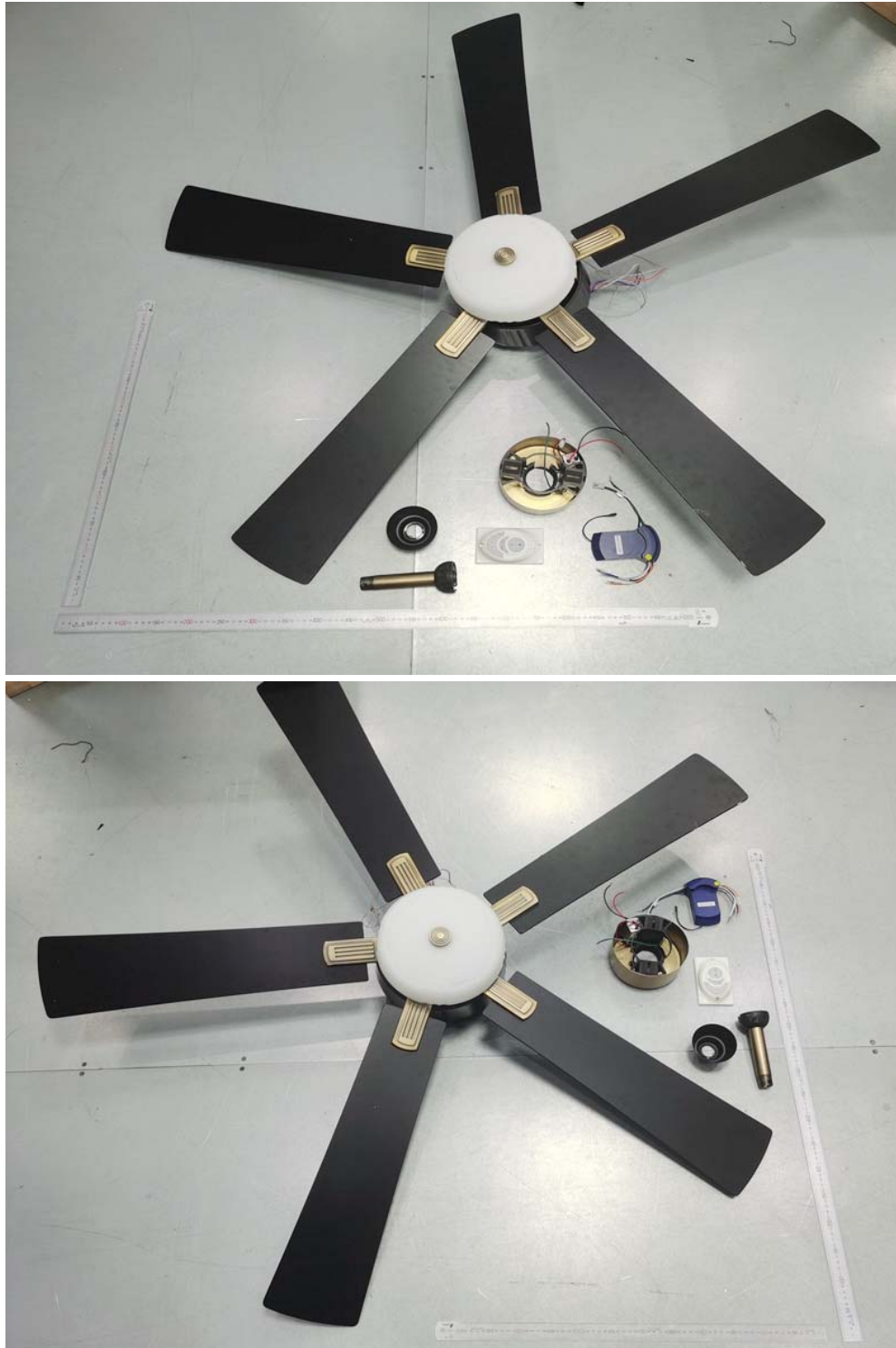
Photographs – EUT



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Photographs – EUT



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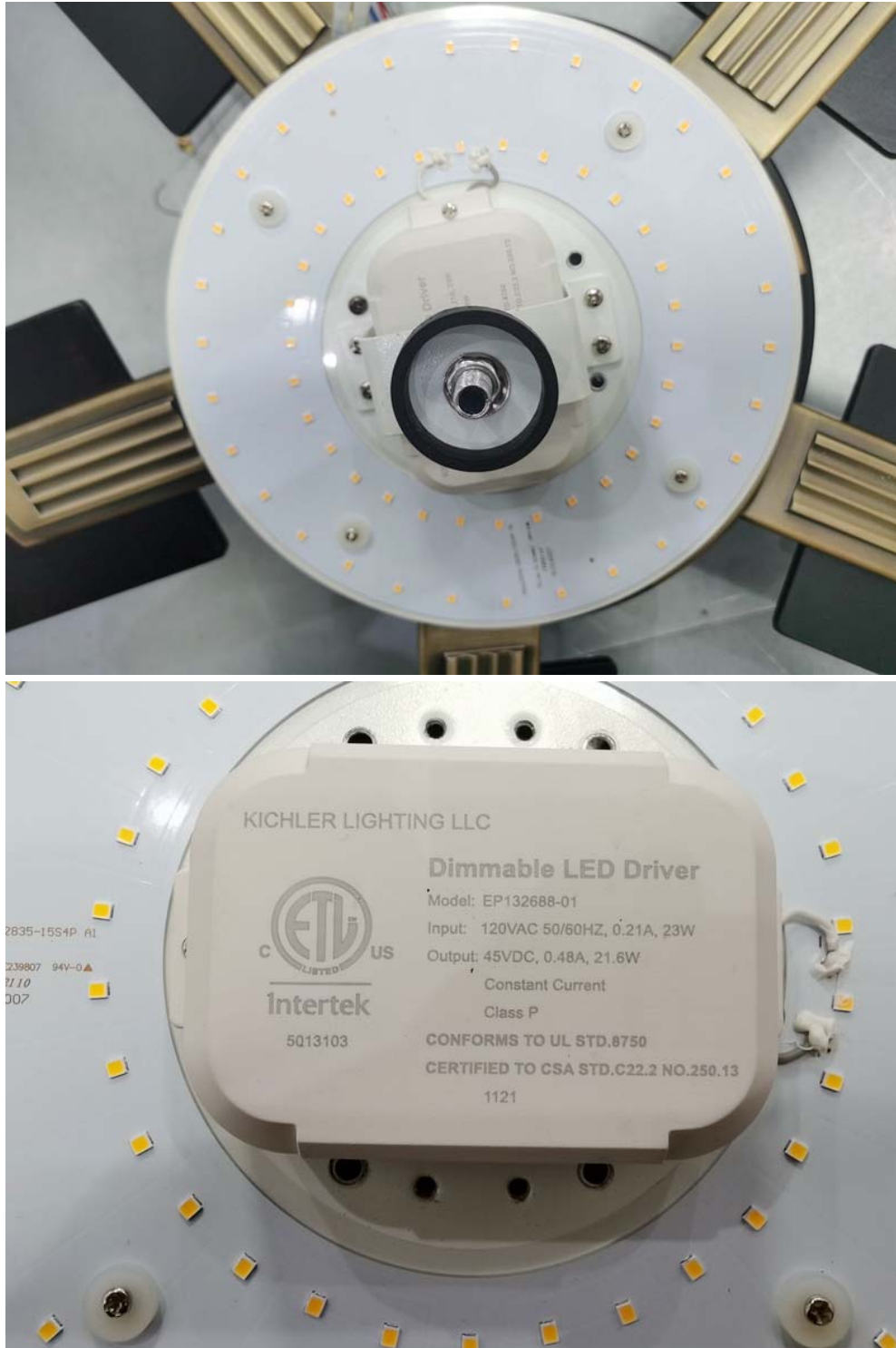
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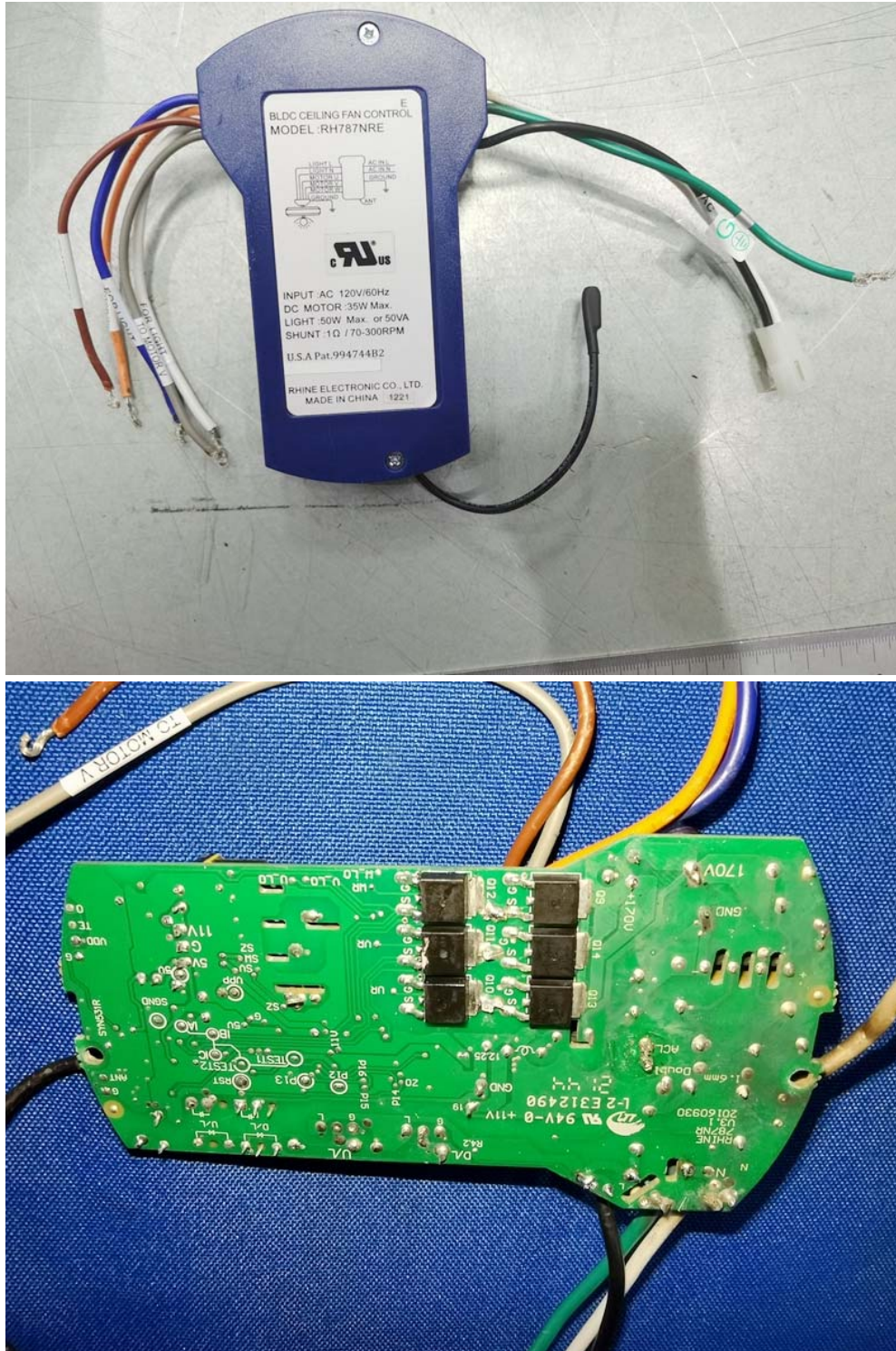
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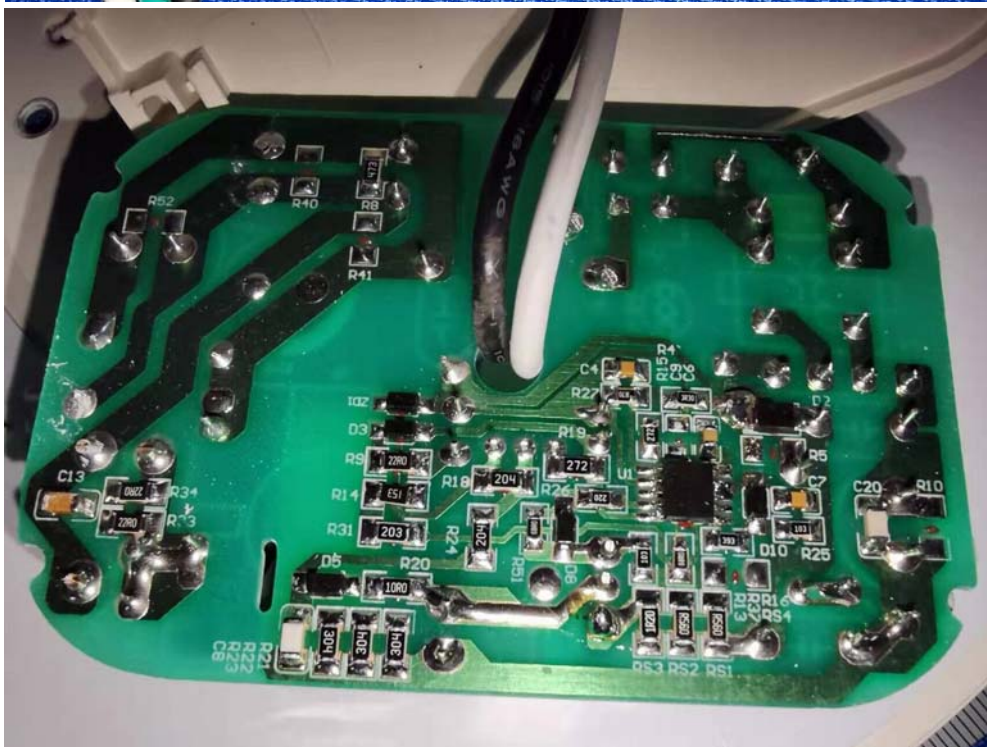
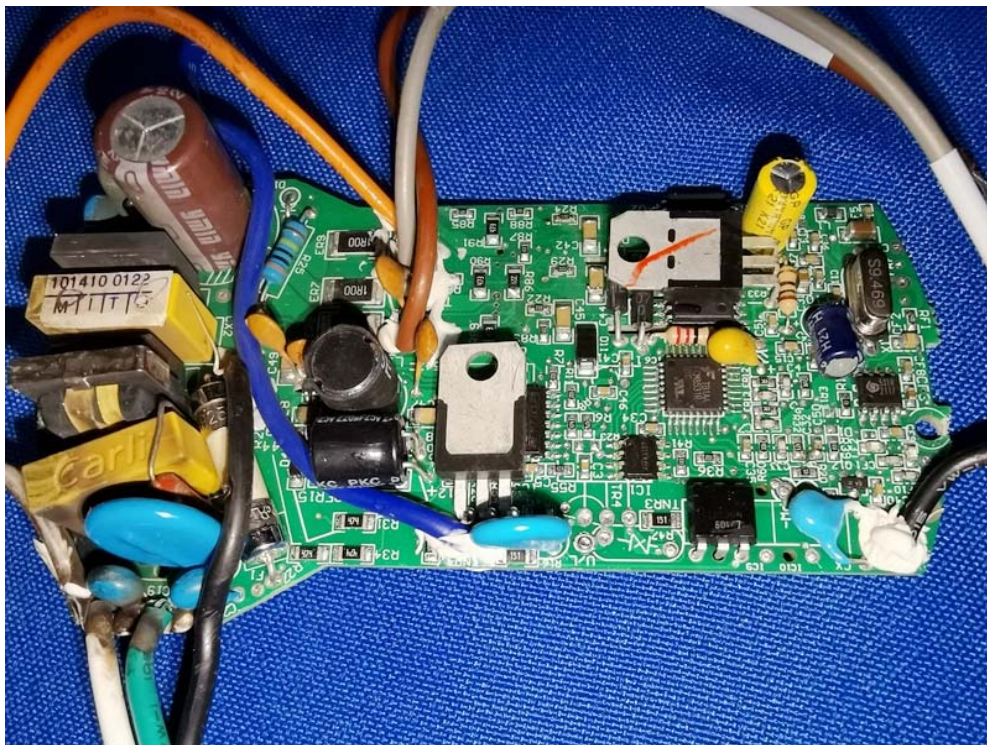
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End of The Report

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