

TECHNICAL REPORT



Report No.: TW2009066E

File Reference No.: 2020-09-14

Applicant: King of Fans, Inc.

Product: 52"Castleford (was Fresno) 52170/52171/52172

Brand Name: Home Decorators Collection

Model No.: 52-FRES

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

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

Terry Tang

Manager

Dated: September 14, 2020

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



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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: King of Fans, Inc.
Address: 1951 N.W. 22nd Street, Fort Lauderdale, FL33311, USA
Telephone: 954-484-7500
Fax: 954-784-7602

1.3 Description of EUT

Product: 52"Castleford(was Fresno)52170/52171/52172
Manufacturer: Chienluen Industries (zhongshan) Ltd..
Address: Da Che Industrial Area,Nanlang Town, Zhongshan,Guangdong China 528451
Brand Name: Home Decorators Collection
Model Number: 52-FRES
Rating : Input: 120V, 60Hz, Fan W/O Light Kit: 0.55A, w/o light 65W; Output: w/light 0.84A, w/light 96W
Rx Frequency: 304MHz

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

Date of Receipt of Application: September 07, 2020
Date of Receipt of Test Item: September 07, 2020
Date of Test: September 07, 2020 ~ September 14, 2020

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

A handwritten signature in blue ink that reads "Leo Lau".

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	2020.06.23	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2020.06.23	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2020.06.23	1 Year
LISN	ESH3-Z5	100294	RS	2020.06.23	1 Year
LISN	ESH3-Z5	100253	RS	2020.06.23	1 Year
LISN	NNB42	00012	SCHAFFNER	2020.01.07	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	2020.06.23	1 Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2020.06.23	1 Year
Amplifier	BBV9743	#218	HP/Agilent	2020.06.23	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2018.07.04	3 Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2018.07.09	3 Year
Amplifier	8449B	3008A00160	HP/Agilent	2020.06.23	1 Year

2.3 Auxiliary Equipment

Device	Manufacturer	Model	Rating
N/A			

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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

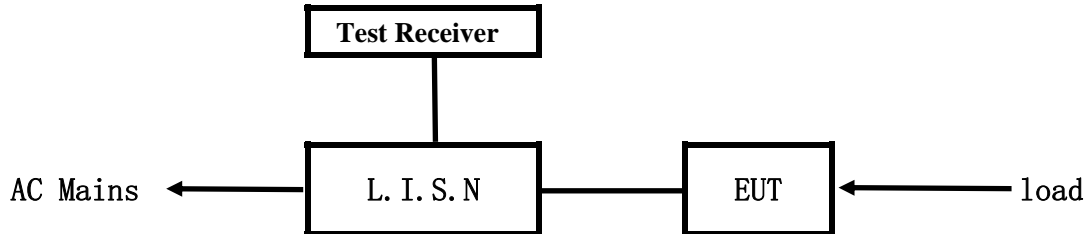
FCC Part 15 Subpart B

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4.0 Conducted Power line Test

4.1 Schematics of the test



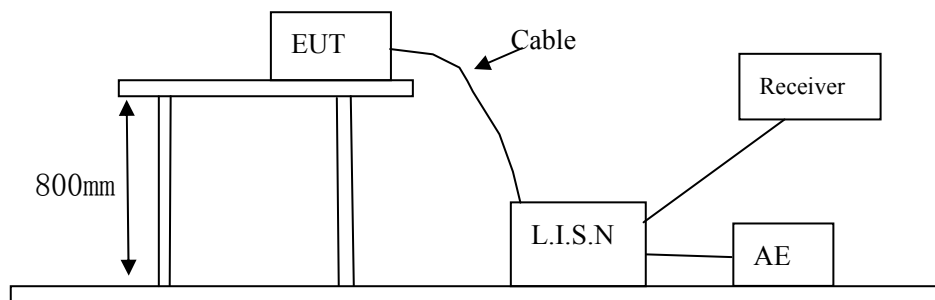
EUT: Equipment Under Test

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 ~ 5.0	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
- *decreasing linearly with logarithm of frequency.
 - 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

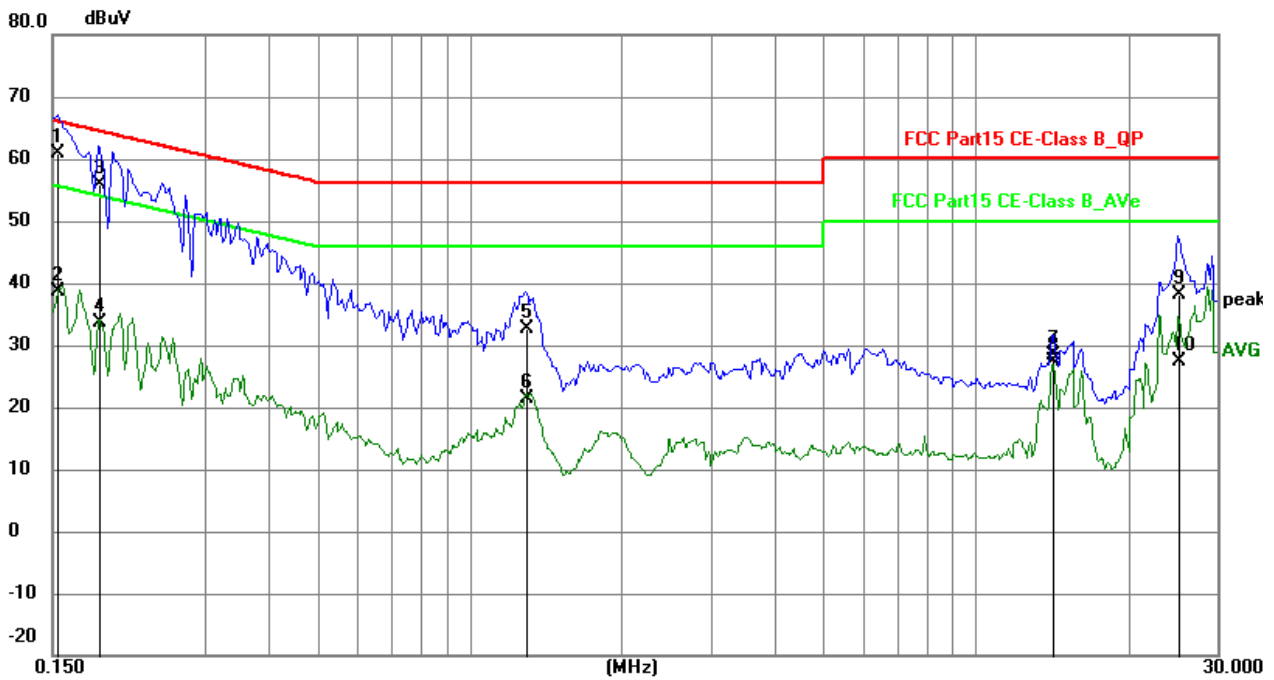
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition : Receiving Mode

Results: Pass

Equipment Level: Class B

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	51.18	9.78	60.96	65.79	-4.83	QP	P
2	0.1539	28.82	9.78	38.60	55.79	-17.19	AVG	P
3	0.1850	46.10	9.76	55.86	64.26	-8.40	QP	P
4	0.1850	23.90	9.76	33.66	54.26	-20.60	AVG	P
5	1.2927	22.96	9.79	32.75	56.00	-23.25	QP	P
6	1.2927	11.48	9.79	21.27	46.00	-24.73	AVG	P
7	14.2125	18.07	10.35	28.42	60.00	-31.58	QP	P
8	14.2125	17.06	10.35	27.41	50.00	-22.59	AVG	P
9	25.1169	27.20	11.00	38.20	60.00	-21.80	QP	P
10	25.1169	16.50	11.00	27.50	50.00	-22.50	AVG	P

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

EUT Operating Environment

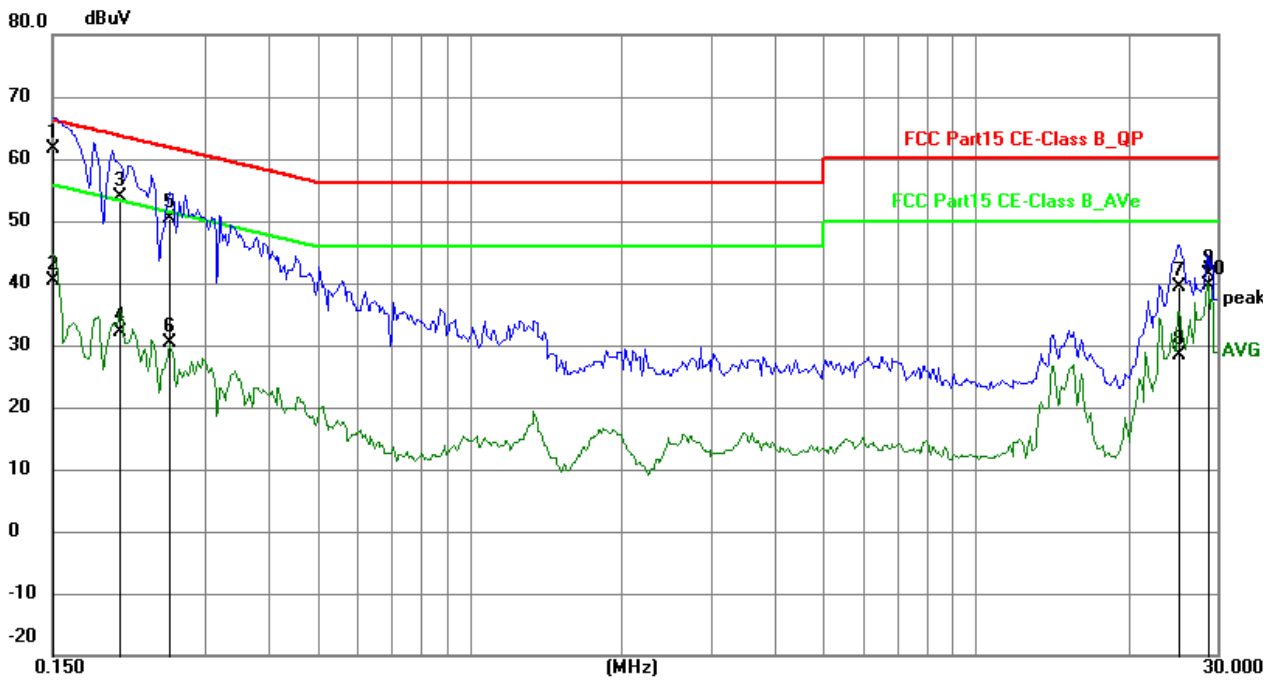
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 KPa

EUT set Condition : Receiving Mode

Results: Pass

Equipment Level: Class B

Please refer to following diagram for individual



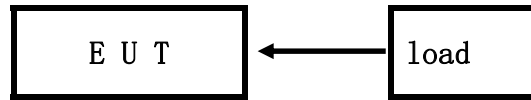
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	51.95	9.79	61.74	66.00	-4.26	QP	P
2	0.1500	30.67	9.79	40.46	56.00	-15.54	AVG	P
3	0.2029	44.16	9.75	53.91	63.49	-9.58	QP	P
4	0.2029	22.36	9.75	32.11	53.49	-21.38	AVG	P
5	0.2553	40.74	9.75	50.49	61.58	-11.09	QP	P
6	0.2553	20.62	9.75	30.37	51.58	-21.21	AVG	P
7	25.1715	28.40	11.00	39.40	60.00	-20.60	QP	P
8	25.1715	17.47	11.00	28.47	50.00	-21.53	AVG	P
9	28.6854	30.07	11.22	41.29	60.00	-18.71	QP	P
10	28.6854	28.30	11.22	39.52	50.00	-10.48	AVG	P

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

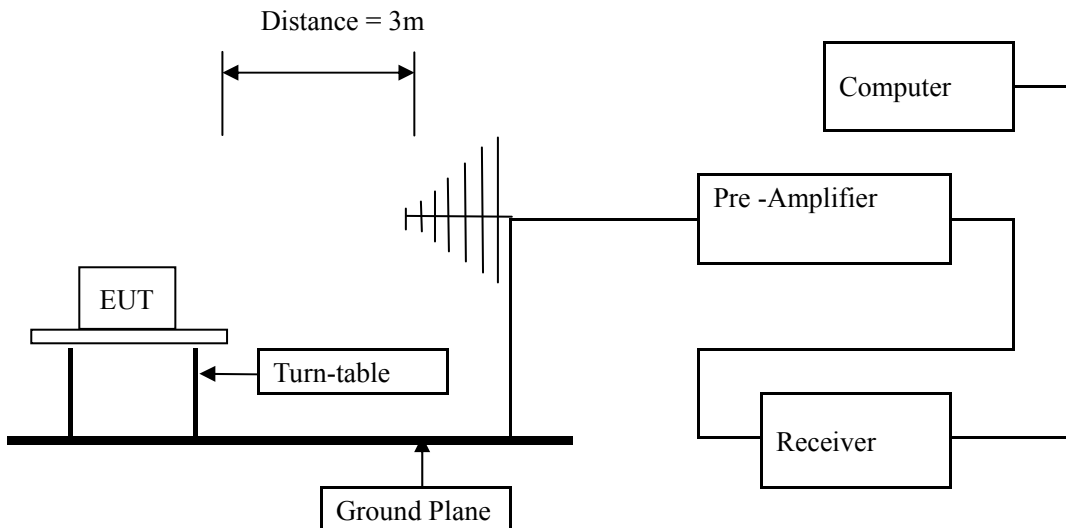


5.2 Test Method and test Procedure:

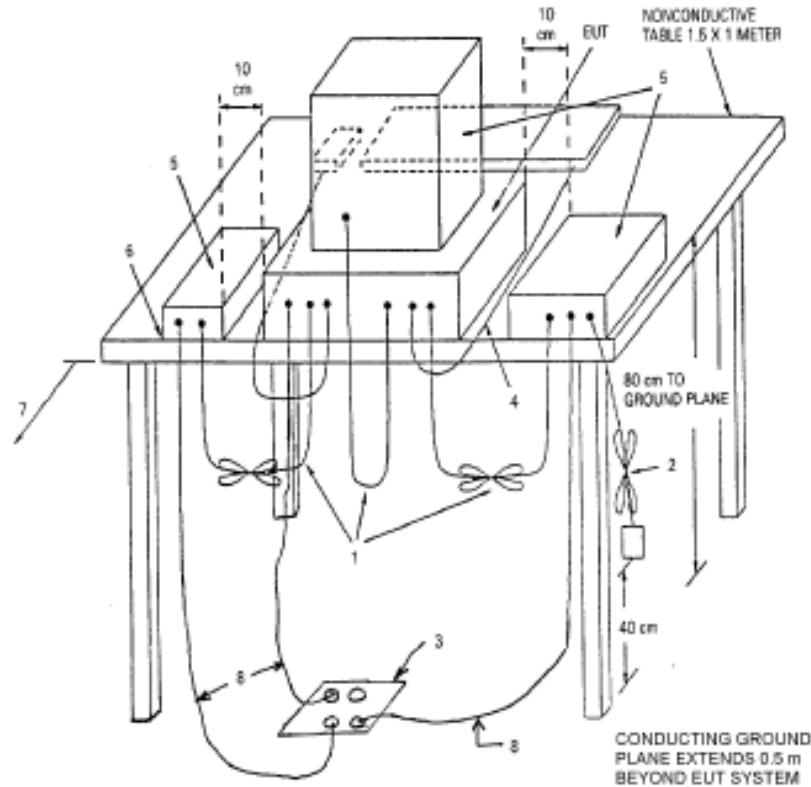
The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, 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

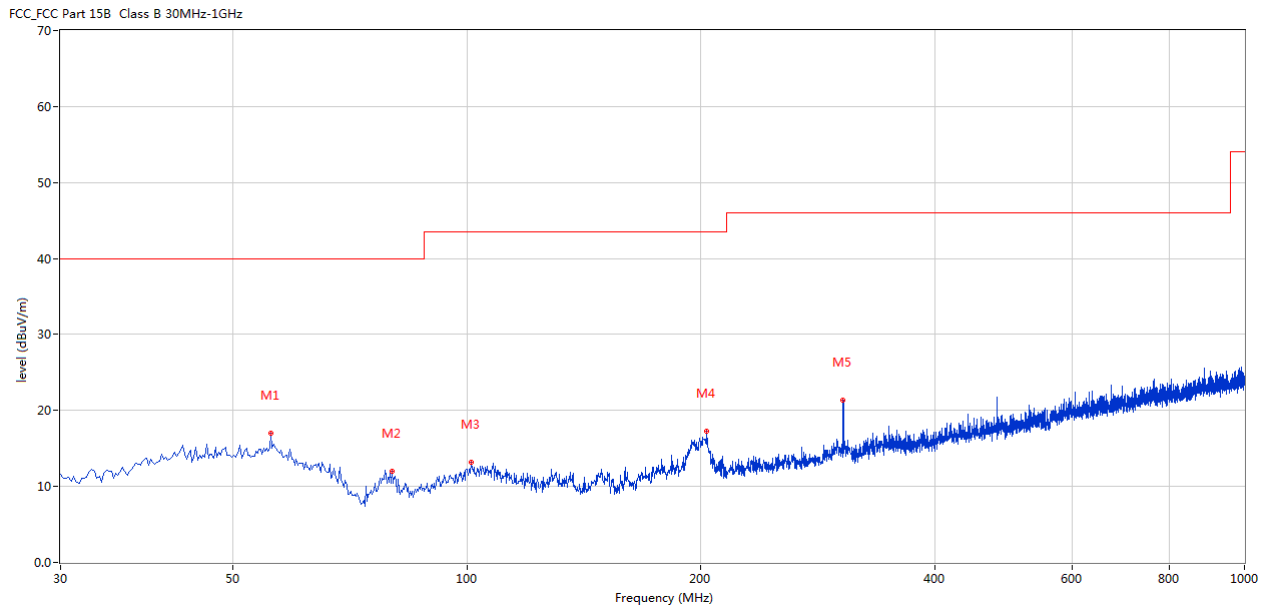
The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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

Project Number:	CASE3	Test Time:	2020-09-10_14.00.35
EUT Name:	52"Castleford 52170	Test Engineer:	HAVEN
Manufacturer:	King of Fans,Inc	Test Standard:	FCC Part 15B
Model:	52-FRES	Work Addition:	Receiving Mode
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	55.941	16.99	-12.00	40.0	-23.01	Peak	5.00	200	Horizontal	Pass
2	80.185	12.05	-17.41	40.0	-27.95	Peak	31.00	200	Horizontal	Pass
3	101.277	13.20	-13.45	43.5	-30.30	Peak	156.00	100	Horizontal	Pass
4	203.587	17.26	-13.48	43.5	-26.24	Peak	75.00	100	Horizontal	Pass
5	304.684	21.31	-10.96	46.0	-24.69	Peak	75.00	100	Horizontal	Pass

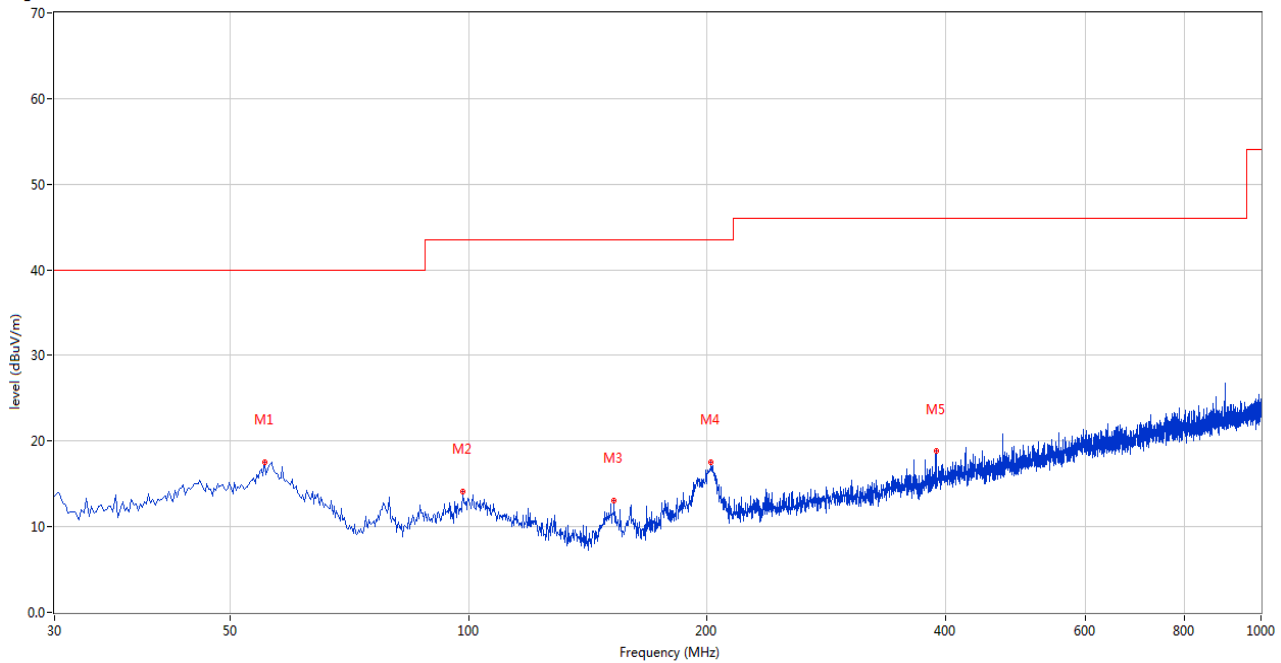
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B: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2020-09-10_13.57.45
EUT Name:	52"Castleford 52170	Test Engineer:	HAVEN
Manufacturer:	King of Fans,Inc	Test Standard:	FCC Part 15B
Model:	52-FRES	Work Addition:	Receiving Mode
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

FCC_FCC Part 15B 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	55.214	17.60	-11.83	40.0	-22.40	Peak	33.00	100	Vertical	Pass
2	98.368	14.05	-13.72	43.5	-29.45	Peak	262.00	100	Vertical	Pass
3	152.674	13.11	-16.88	43.5	-30.39	Peak	320.00	100	Vertical	Pass
4	202.374	17.57	-13.39	43.5	-25.93	Peak	105.00	100	Vertical	Pass
5	389.295	18.79	-8.90	46.0	-27.21	Peak	122.00	100	Vertical	Pass

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C: Radiated Disturbance (1000MHz----5000MHz)

EUT Operating Environment

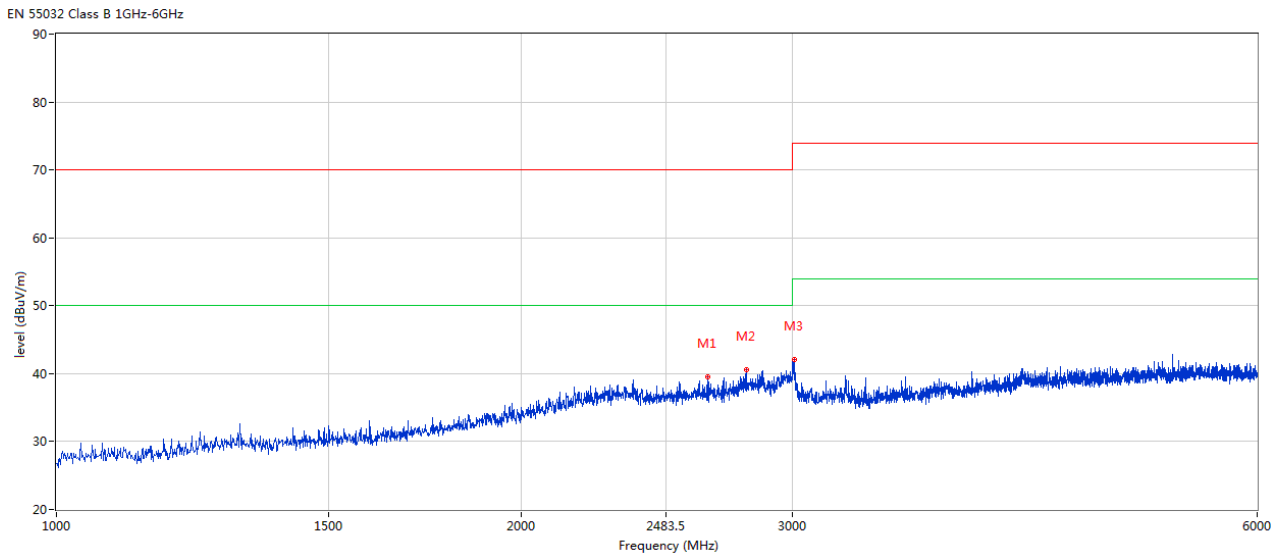
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

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	2642.089	39.53	-3.17	70.0	-30.47	Peak	294.00	100	H	Pass
2	2798.300	40.59	-2.70	70.0	-29.41	Peak	64.00	100	H	Pass
3	3005.749	42.04	-2.61	74.0	-31.96	Peak	226.00	100	H	Pass

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D: Radiated Disturbance (1000MHz----5000MHz)

EUT Operating Environment

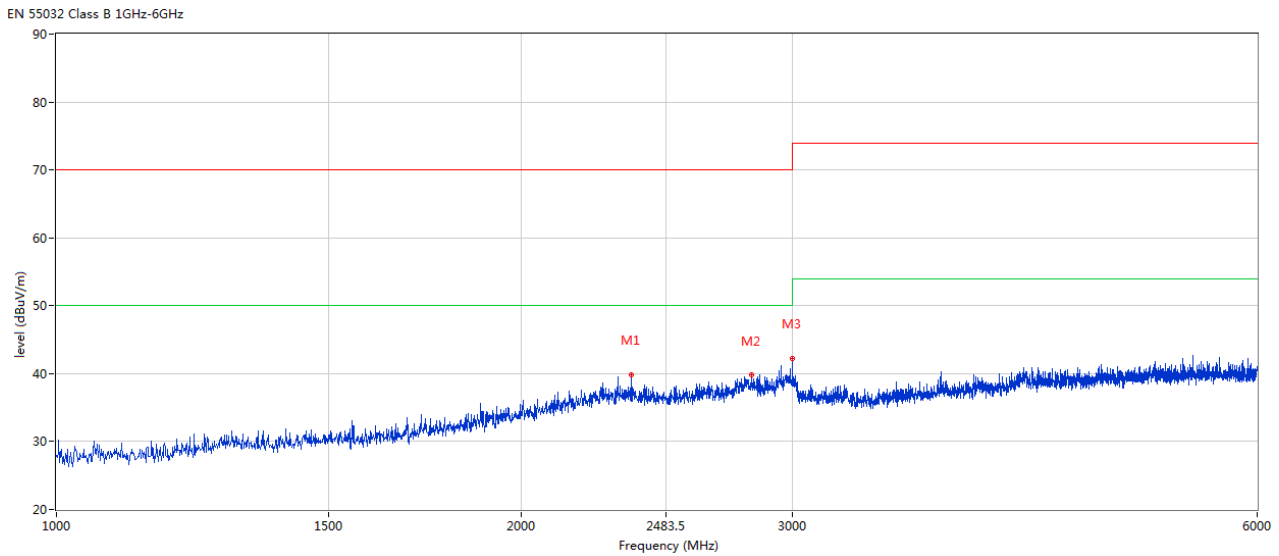
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

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	2357.161	39.90	-3.41	70.0	-30.10	Peak	360.00	100	V	Pass
2	2823.294	39.81	-2.69	70.0	-30.19	Peak	248.00	100	V	Pass
3	2999.500	42.29	-2.64	70.0	-27.71	Peak	114.00	100	V	Pass

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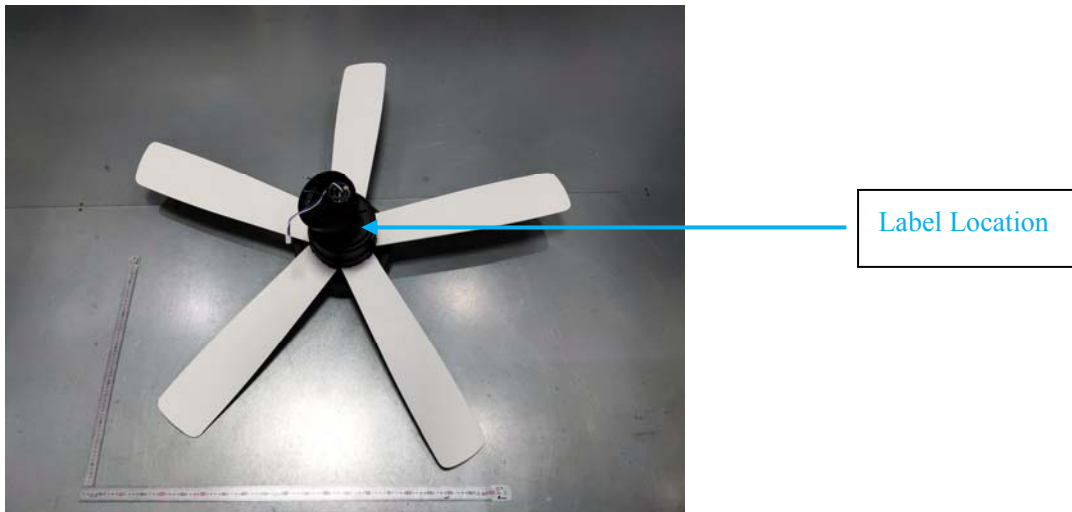


6.0 FCC Label

FCC ID: RGB-52FRESD

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.

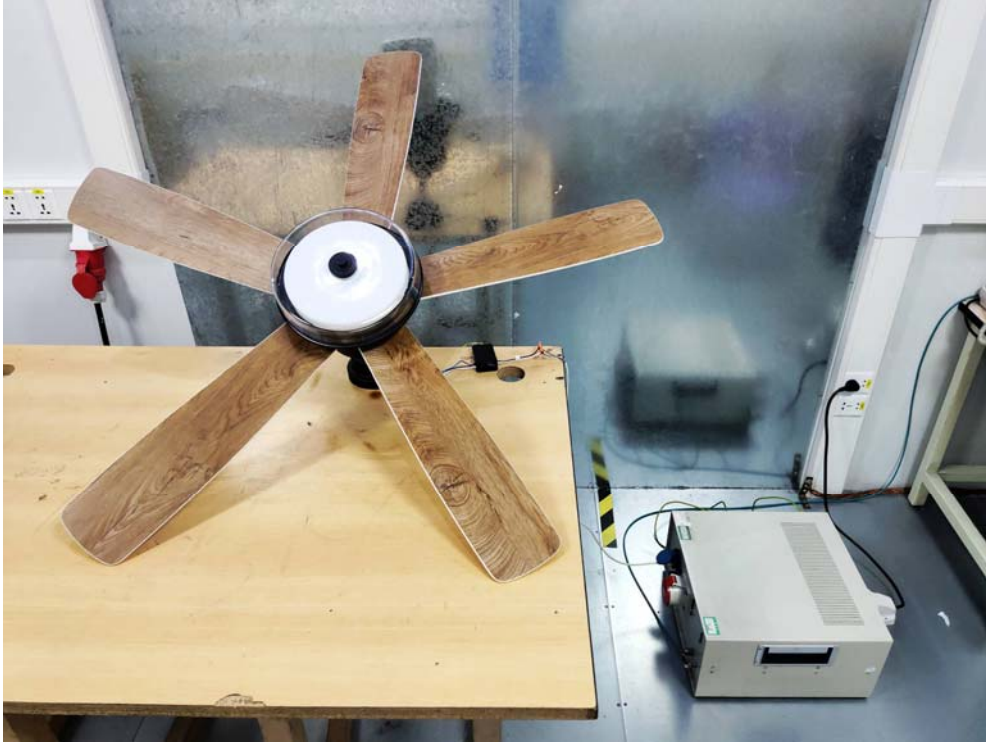


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7.0 Photo of testing

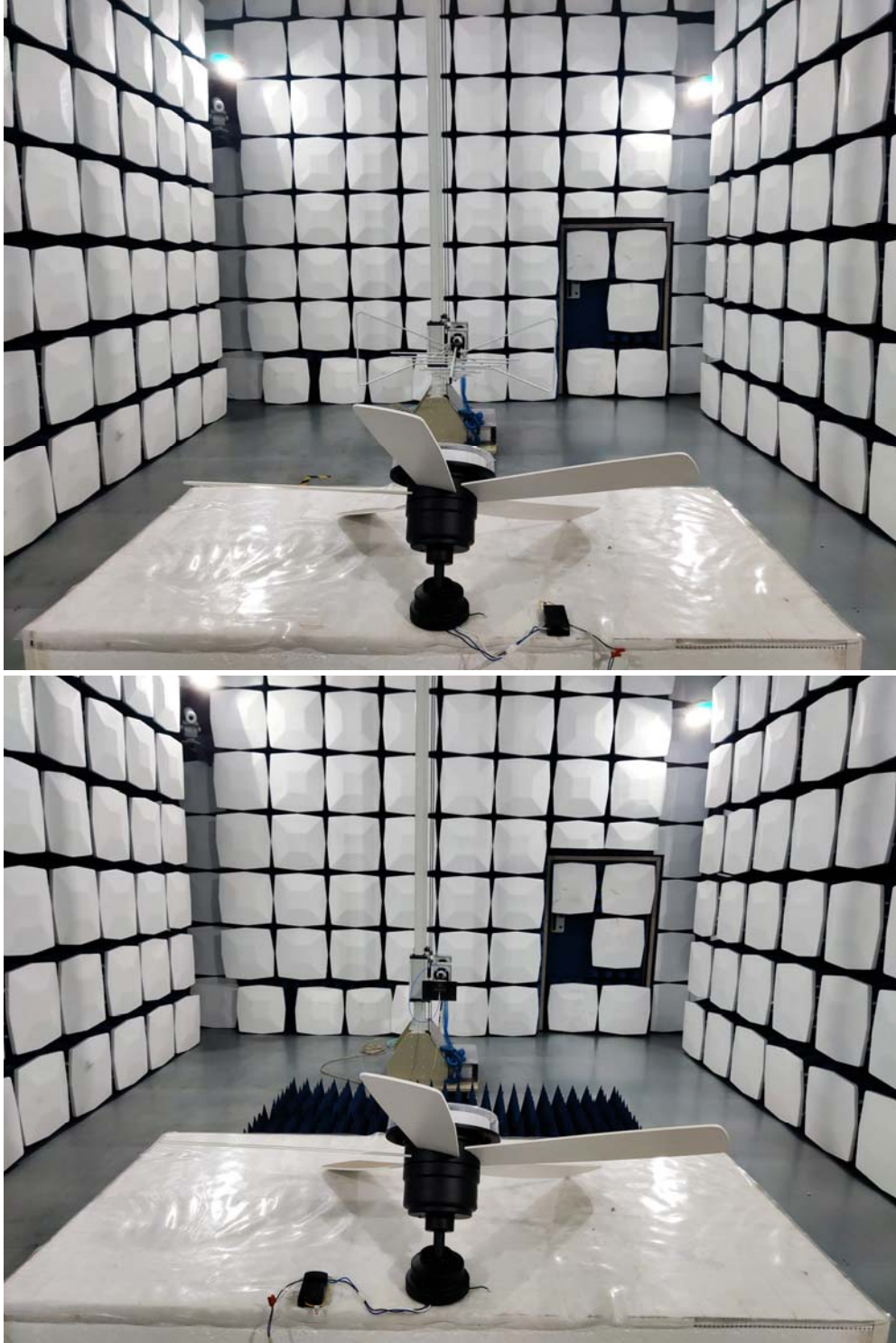
Conducted Emissions



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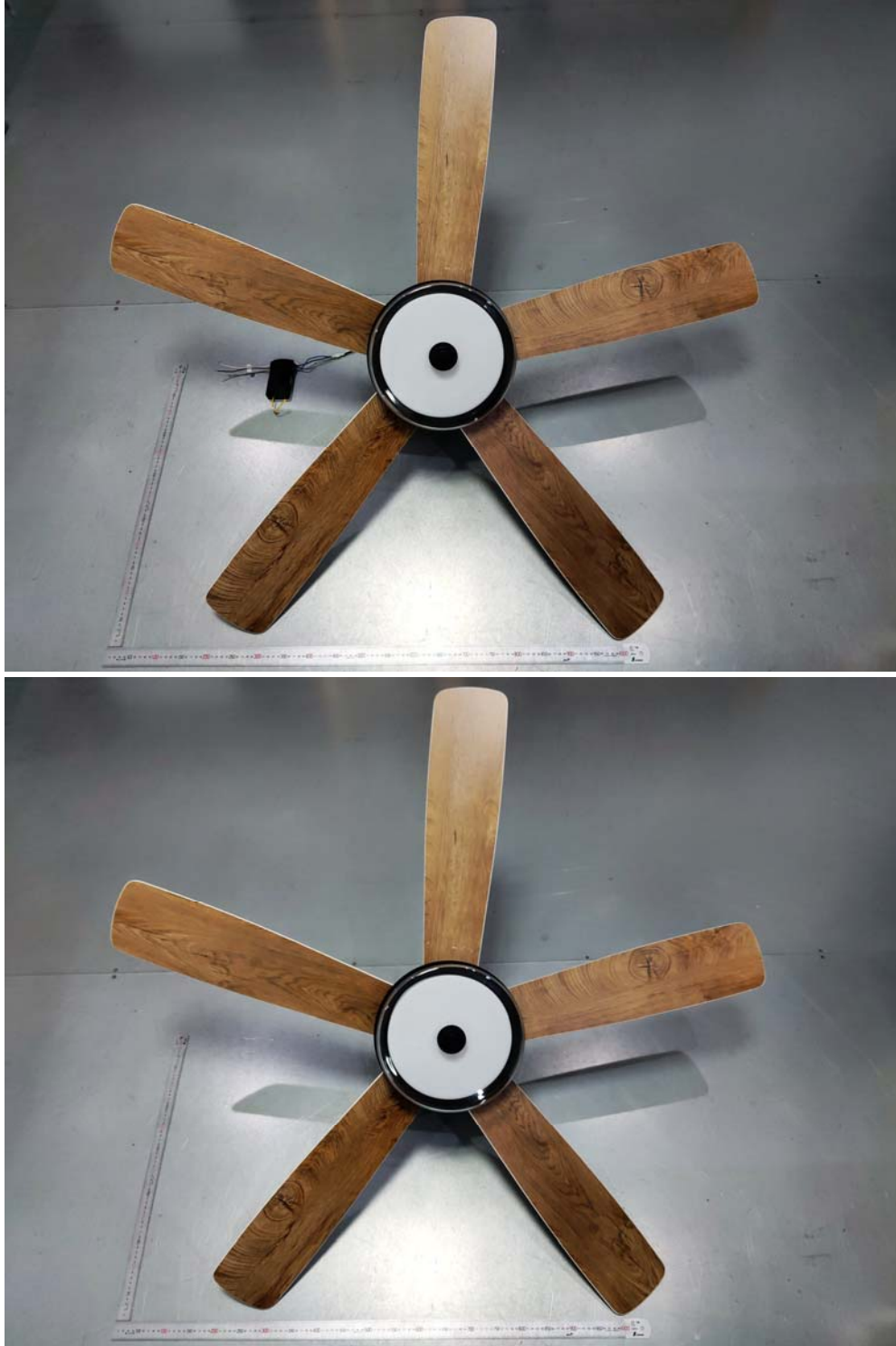


Radiated Emissions



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Photographs – EUT



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Photographs – EUT



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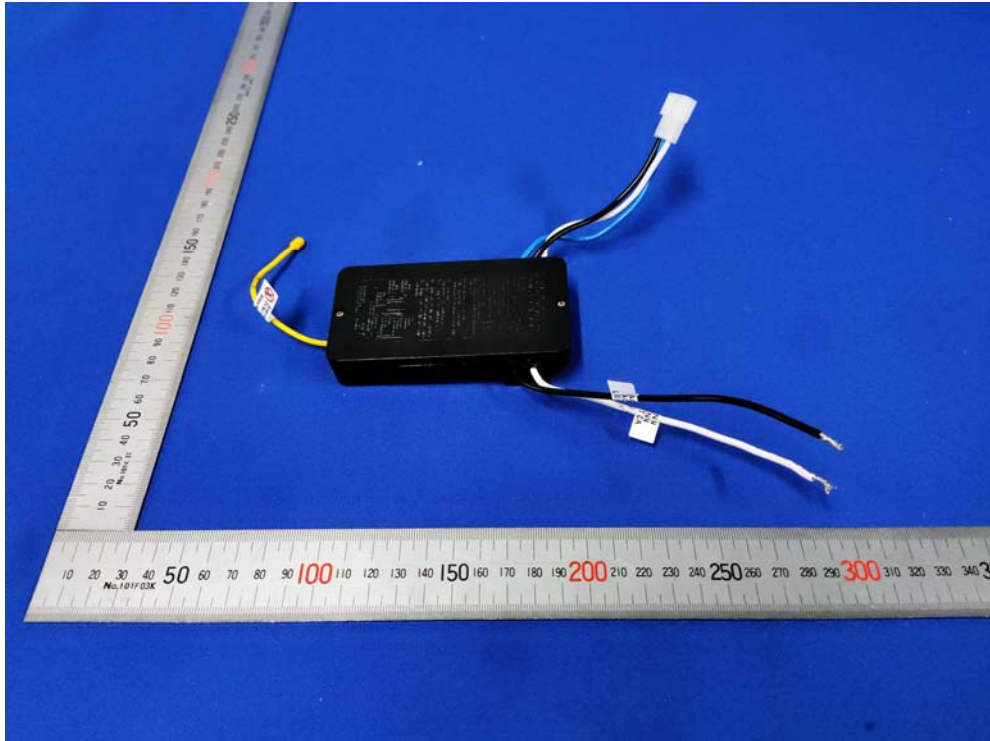
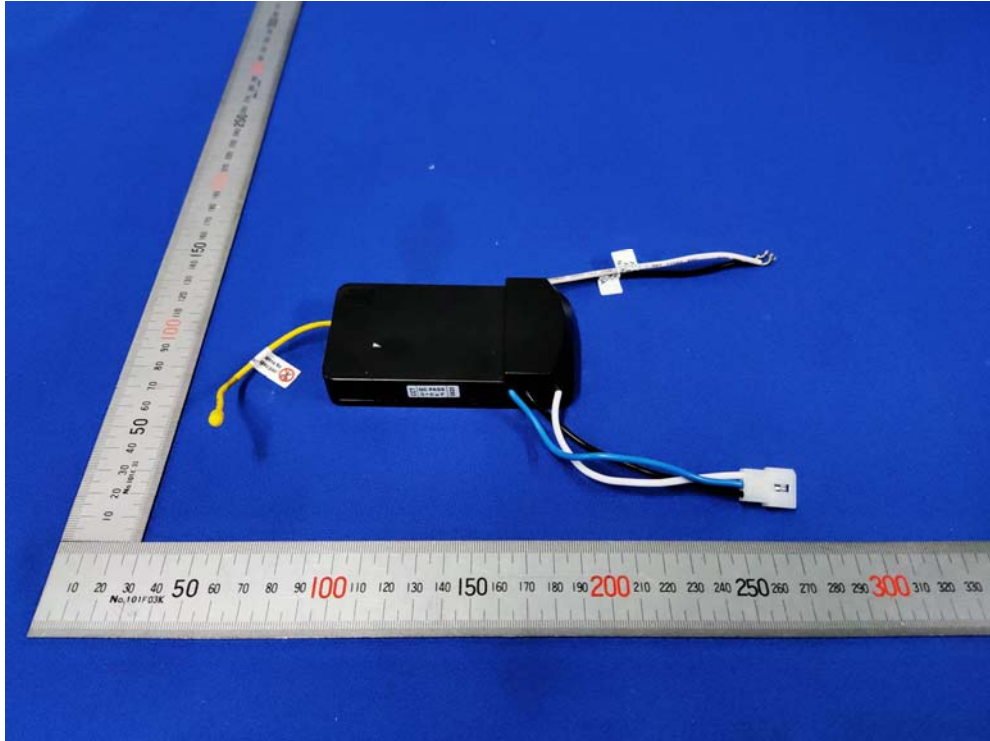
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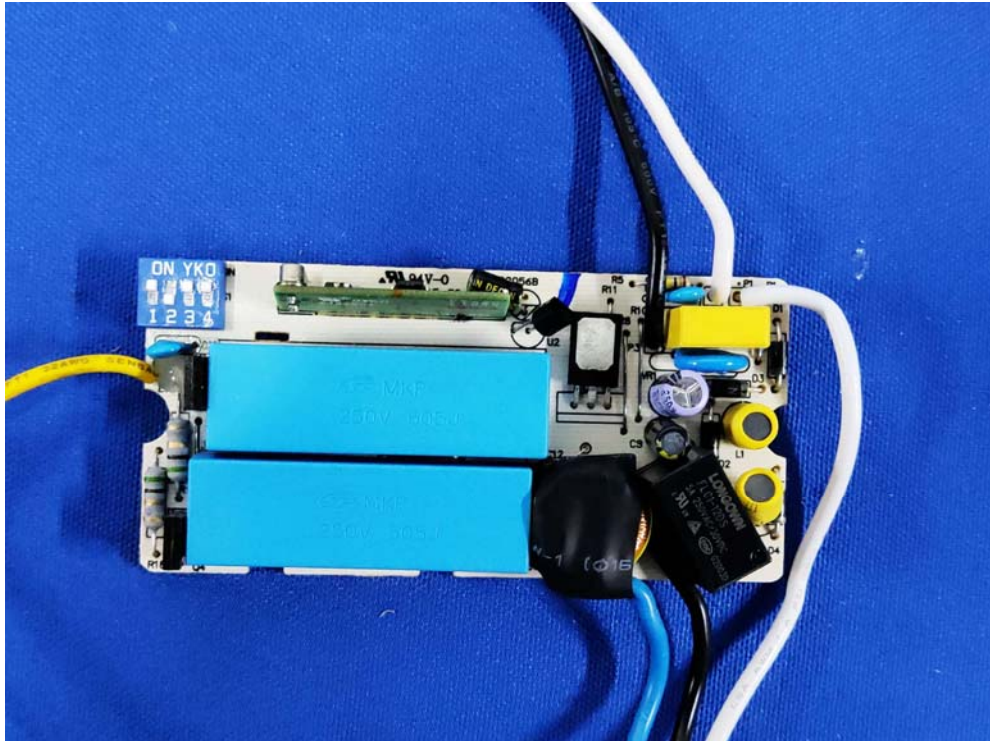
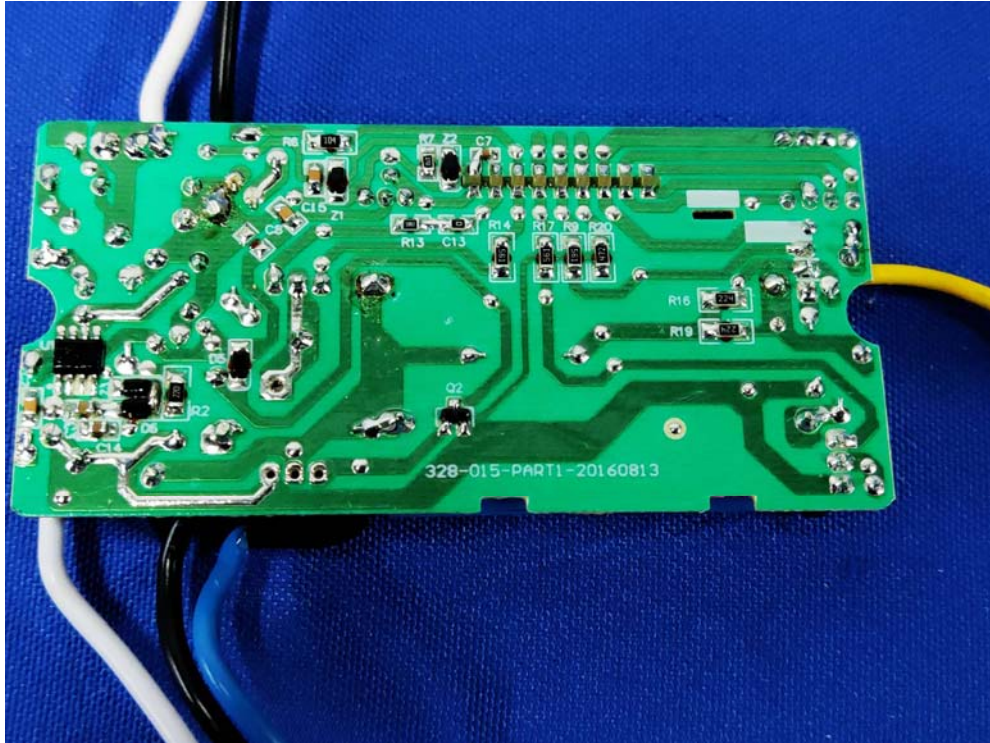
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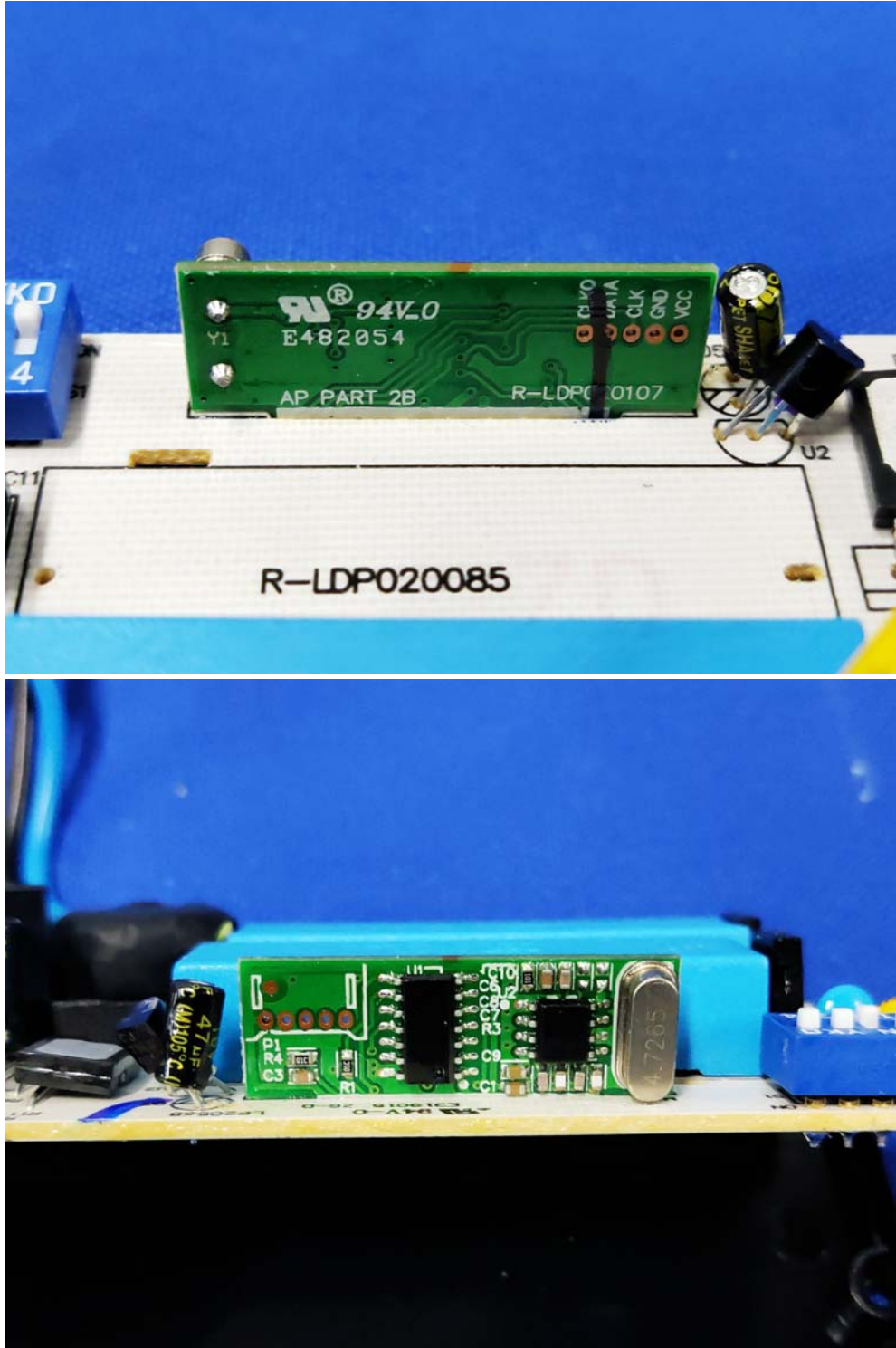
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End of The Report

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