



Report No.: TW2008186E

File Reference No.: 2020-08-25

Applicant: King of Fans, Inc.

Product: 60" Makenna (was Timberson) 52106

Brand Name: Home Decorators Collection

Model No.: 60-TIMB

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 Tong".

---

Terry Tong

Manager

Dated: August 25, 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](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 17025:2005 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: 60" Makenna (was Timberson) 52106  
Manufacturer: Chienluen Industries (zhongshan) Ltd..  
Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451  
Brand Name: Home Decorators Collection  
Model Number: 60-TIMB  
Rating: Input: 120V, 60Hz, Fan w/o light kit: 0.6A, 40W; Fan w/light kit: 0.8A, 61W  
Rx Frequency: 433.92MHz

### 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration

Date of Receipt of Application: August 17, 2020  
Date of Receipt of Test Item: August 17, 2020  
Date of Test: August 17, 2020 ~ August 25, 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

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	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2020.06.23	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2020.06.23	1Year
LISN	ESH3-Z5	100294	RS	2020.06.23	1Year
LISN	ESH3-Z5	100253	RS	2020.06.23	1Year
LISN	NNB42	00012	SCHAFFNER	2020.01.07	1Year

### 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	1Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2020.06.23	1Year
Amplifier	BBV9743	#218	HP/Agilent	2020.06.23	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2018.07.04	3Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2018.07.09	3Year
Amplifier	8449B	3008A00160	HP/Agilent	2020.06.23	1Year

### 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

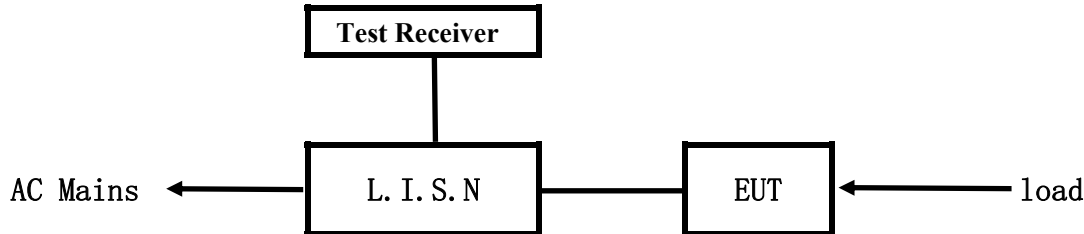
**FCC Part 15 Subpart B**

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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



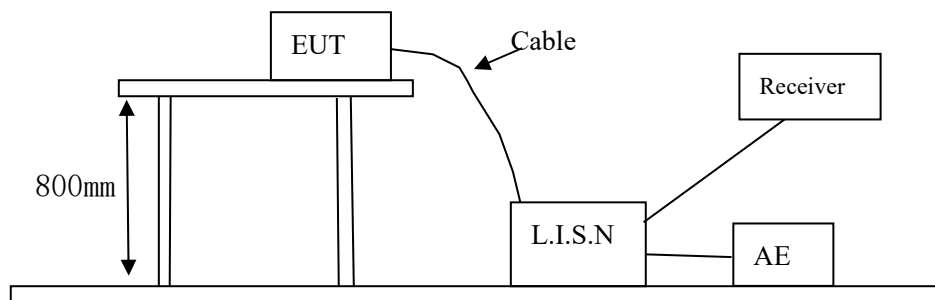
EUT: Equipment Under Test

##### 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)**

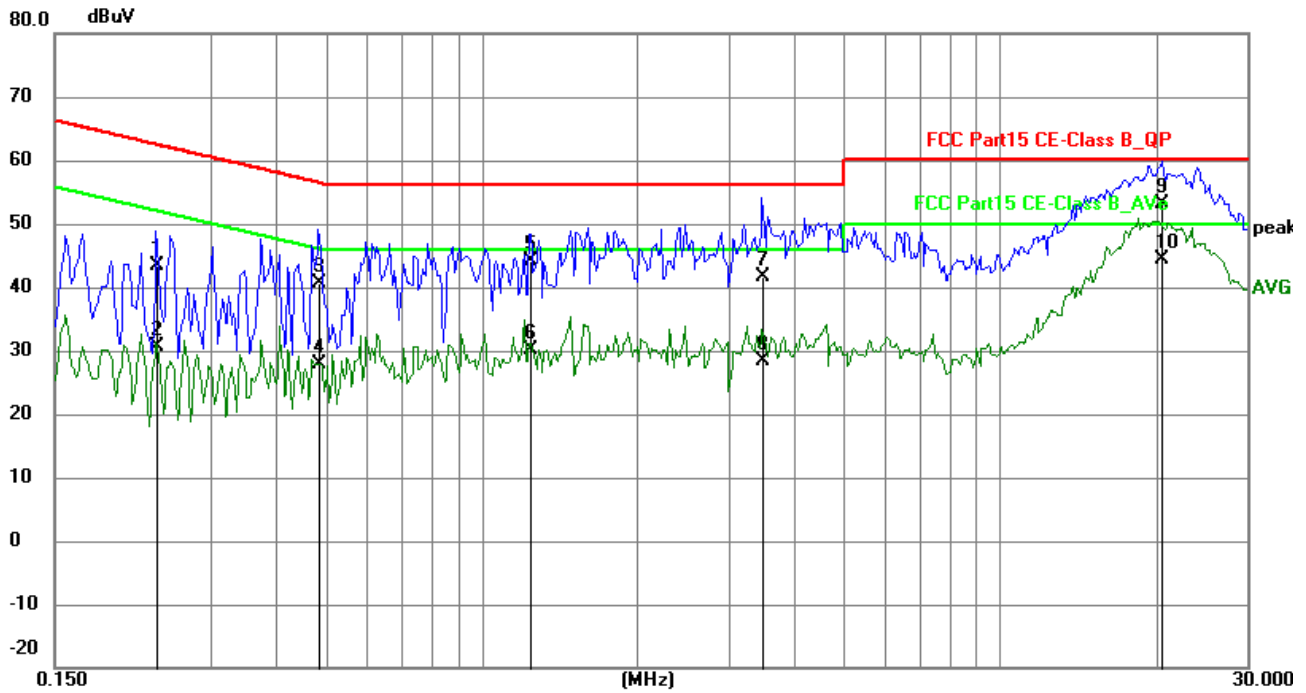
**EUT Operating Environment**

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

**EUT set Condition: Receiving Mode**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2358	33.67	9.75	43.42	62.24	-18.82	QP	P
2	0.2358	20.76	9.75	30.51	52.24	-21.73	AVG	P
3	0.4854	30.96	9.77	40.73	56.25	-15.52	QP	P
4	0.4854	18.15	9.77	27.92	46.25	-18.33	AVG	P
5	1.2420	34.23	9.79	44.02	56.00	-11.98	QP	P
6	1.2420	20.28	9.79	30.07	46.00	-15.93	AVG	P
7	3.4758	31.72	9.86	41.58	56.00	-14.42	QP	P
8	3.4758	18.64	9.86	28.50	46.00	-17.50	AVG	P
9	20.5851	42.48	10.72	53.20	60.00	-6.80	QP	P
10	20.5851	33.78	10.72	44.50	50.00	-5.50	AVG	P

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

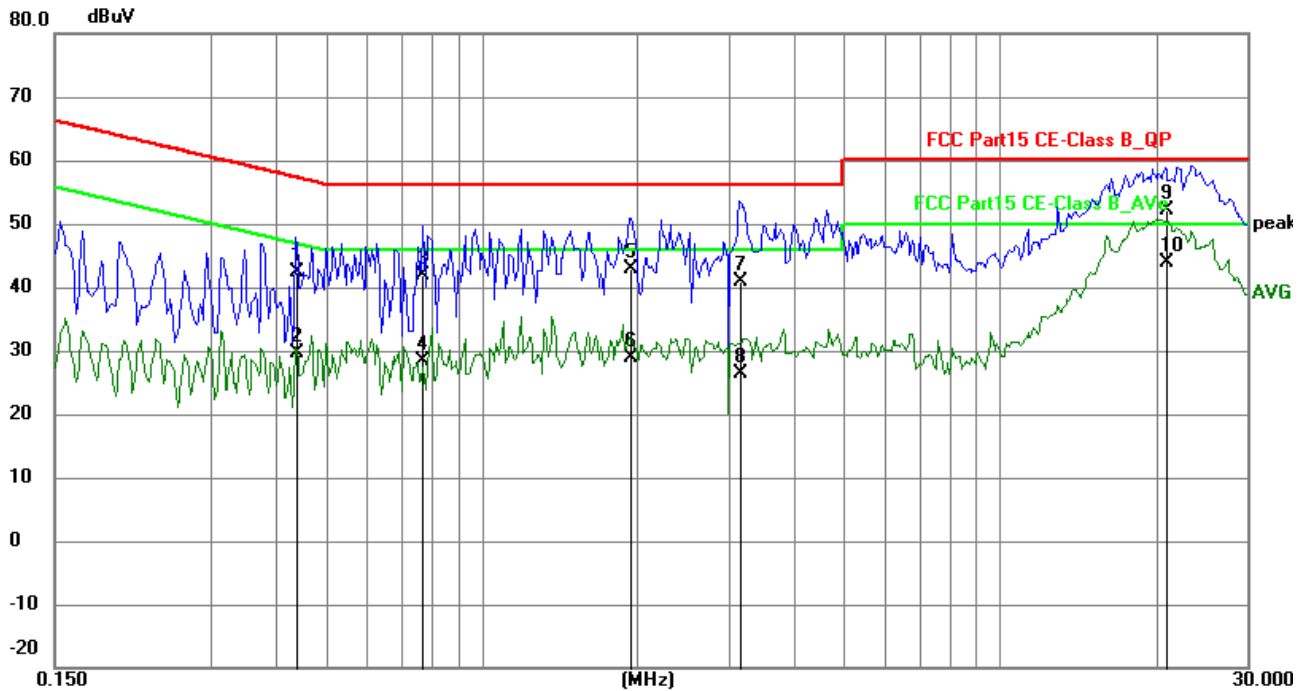
**EUT Operating Environment**

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

**EUT set Condition : Receiving Mode**

**Results: Pass**

Please refer to following diagram for individual



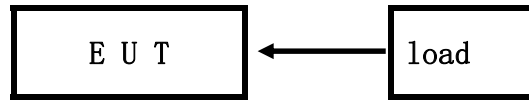
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4386	32.56	9.77	42.33	57.09	-14.76	QP	P
2	0.4386	19.90	9.77	29.67	47.09	-17.42	AVG	P
3	0.7700	32.21	9.78	41.99	56.00	-14.01	QP	P
4	0.7700	18.48	9.78	28.26	46.00	-17.74	AVG	P
5	1.9362	33.12	9.80	42.92	56.00	-13.08	QP	P
6	1.9362	19.15	9.80	28.95	46.00	-17.05	AVG	P
7	3.1443	31.11	9.85	40.96	56.00	-15.04	QP	P
8	3.1443	16.41	9.85	26.26	46.00	-19.74	AVG	P
9	20.8776	41.34	10.73	52.07	60.00	-7.93	QP	P
10	20.8776	33.24	10.73	43.97	50.00	-6.03	AVG	P

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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

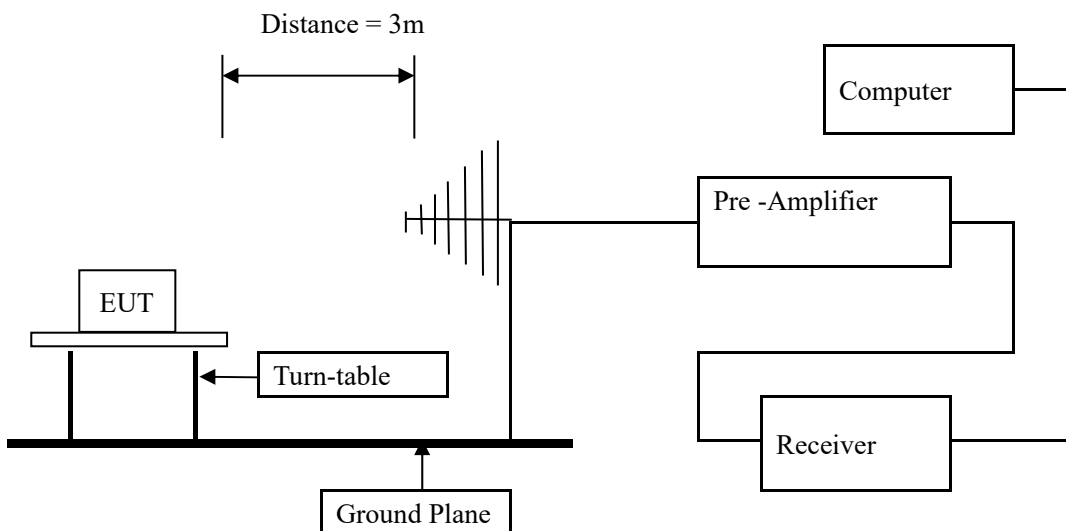


### 5.2 Test Method and test Procedure:

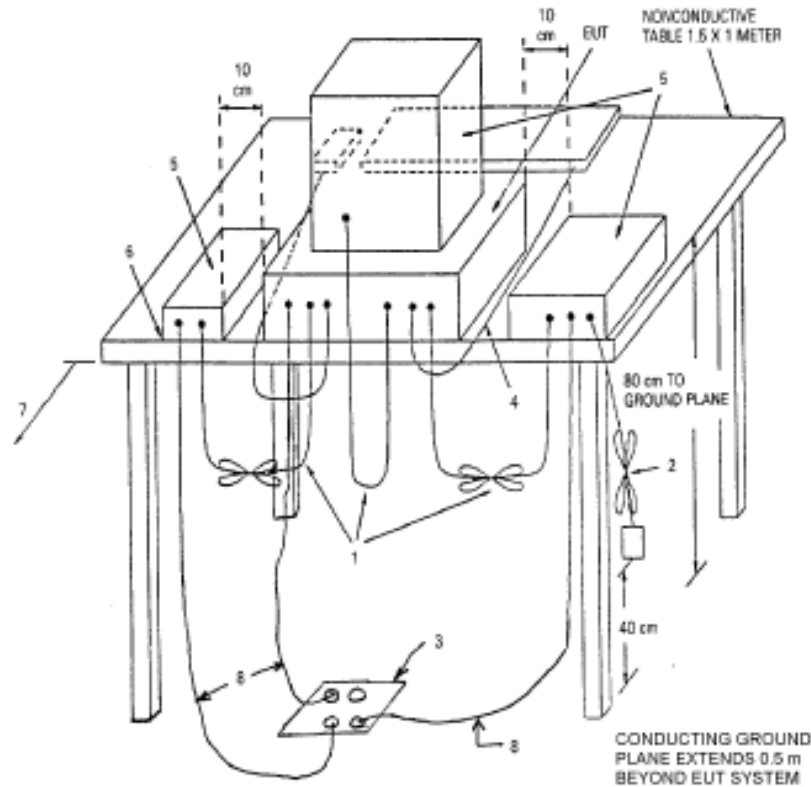
The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, 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 $\mu$ 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 RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

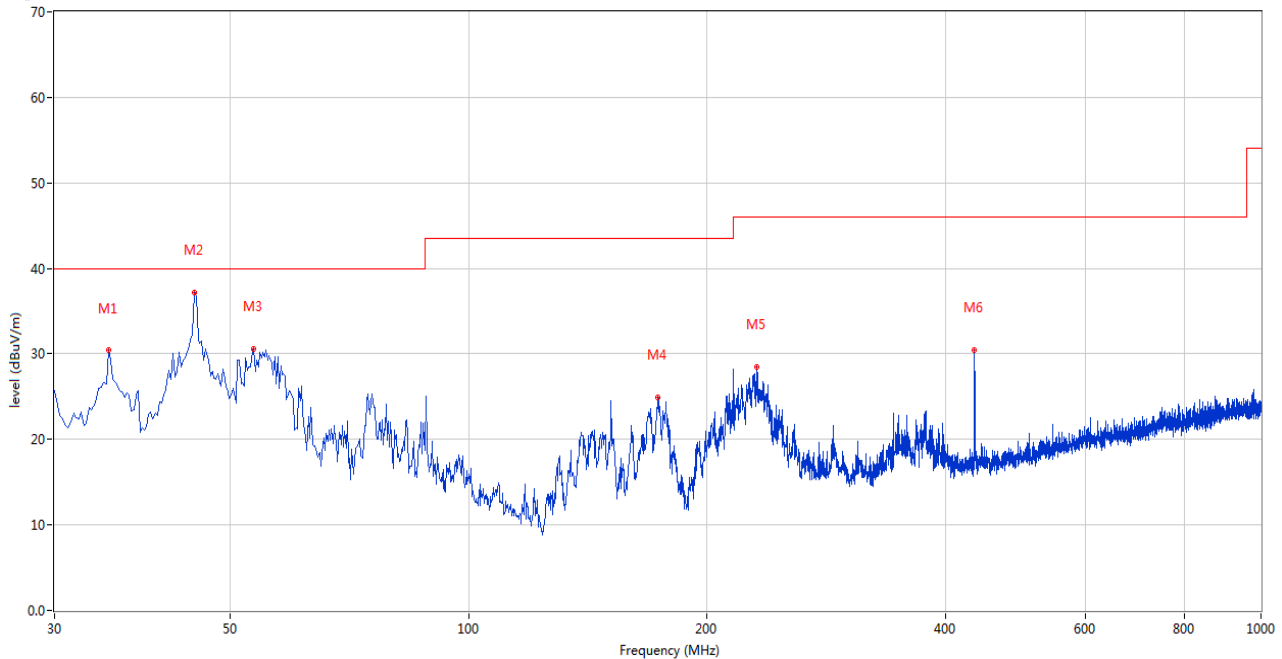
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**A: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-08-21_13.14.44
EUT Name:	60'Makenna(was Timberson) 52106	Test Engineer:	Artorias
Manufacturer:	King of Fans,Inc.	Test Standard:	FCC Part15B
Model:	60-TIMB	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	35.091	30.39	-14.00	40.0	-9.61	Peak	183.00	100	Horizontal	Pass
2	45.031	37.13	-11.41	40.0	-2.87	Peak	197.00	200	Horizontal	Pass
3	53.517	30.58	-11.52	40.0	-9.42	Peak	194.00	200	Horizontal	Pass
4	173.039	24.94	-15.92	43.5	-18.56	Peak	0.00	200	Horizontal	Pass
5	231.225	28.53	-12.62	46.0	-17.47	Peak	78.00	200	Horizontal	Pass
6	435.116	30.45	-8.01	46.0	-15.55	Peak	105.00	200	Horizontal	Pass

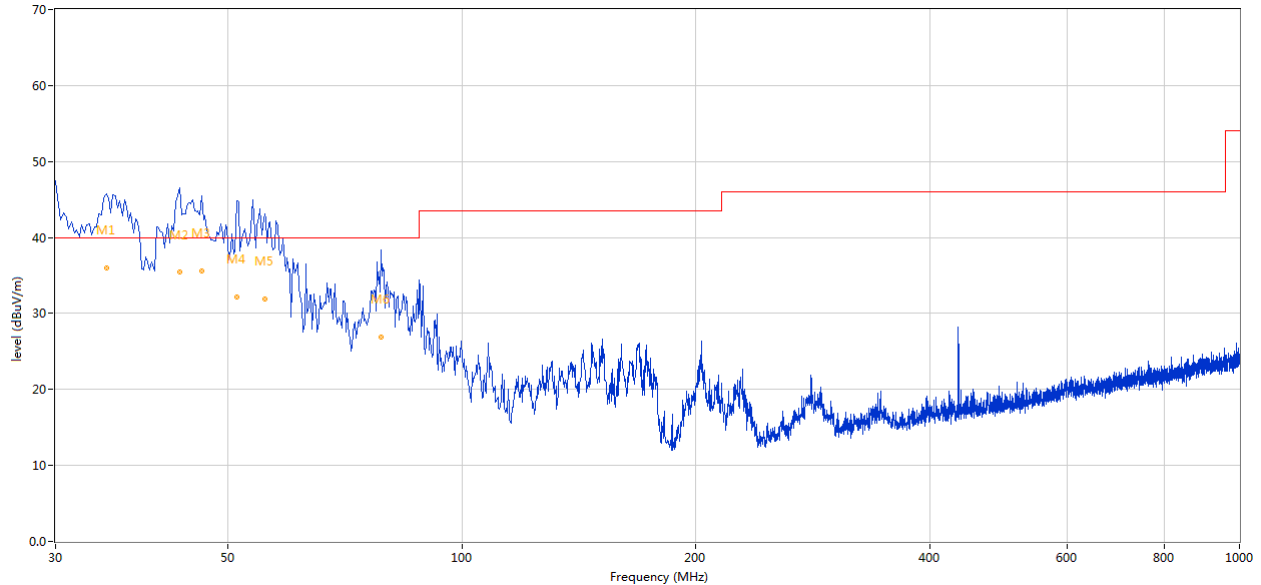
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**B: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-08-21_13.24.07
EUT Name:	60'Makenna(was Timberson) 52106	Test Engineer:	Artorias
Manufacturer:	King of Fans,Inc.	Test Standard:	FCC Part15B
Model:	60-TIMB	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	34.849	45.51	-14.06	40.0	5.51	Peak	0.00	138	Vertical	N/A
1*	34.849	36.04	-14.06	40.0	-3.96	QP	0.00	138	Vertical	Pass
2	43.334	45.72	-11.49	40.0	5.72	Peak	65.00	124	Vertical	N/A
2*	43.334	35.43	-11.49	40.0	-4.57	QP	65.00	124	Vertical	Pass
3	46.243	45.48	-11.41	40.0	5.48	Peak	0.00	124	Vertical	N/A
3*	46.243	35.57	-11.41	40.0	-4.43	QP	0.00	124	Vertical	Pass
4	51.335	44.63	-11.41	40.0	4.63	Peak	218.00	120	Vertical	N/A
4*	51.335	32.16	-11.41	40.0	-7.84	QP	218.00	120	Vertical	Pass
5	55.699	43.92	-11.94	40.0	3.92	Peak	33.00	100	Vertical	N/A
5*	55.699	31.85	-11.94	40.0	-8.15	QP	33.00	100	Vertical	Pass
6	78.730	38.25	-17.47	40.0	-1.75	Peak	90.00	175	Vertical	Pass
6*	78.730	26.90	-17.47	40.0	-13.10	QP	90.00	175	Vertical	Pass

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

**EUT Operating Environment**

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

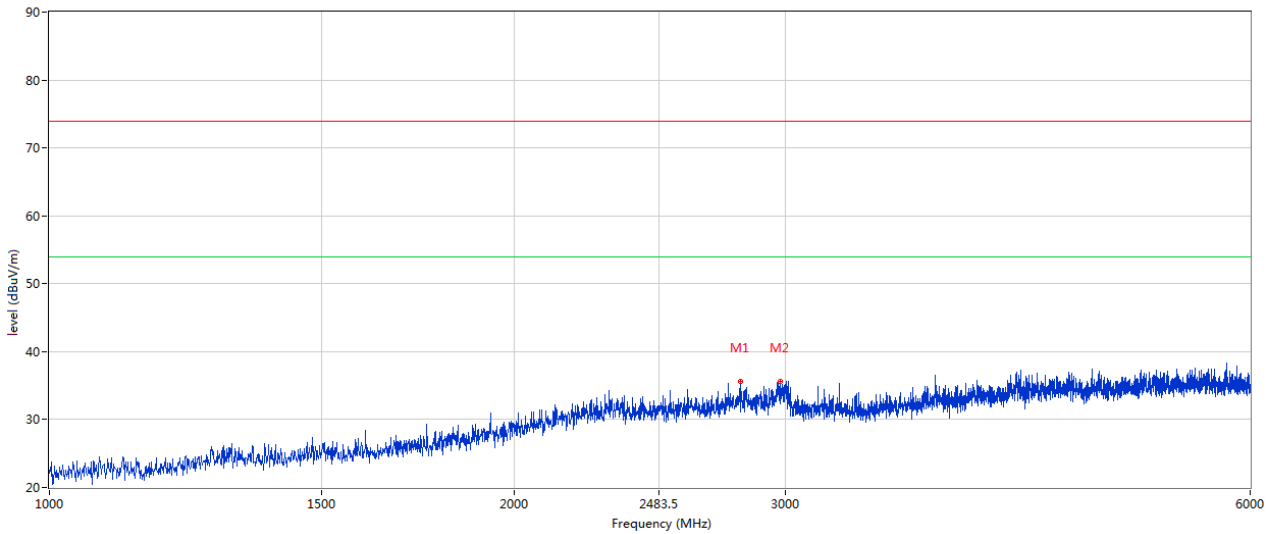
**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual

FCC Part 15B Class B 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2803.299	35.60	-2.70	74.0	-38.40	Peak	5.00	100	H	Pass
2	2975.756	35.55	-2.65	74.0	-38.45	Peak	4.00	100	H	Pass

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

**EUT Operating Environment**

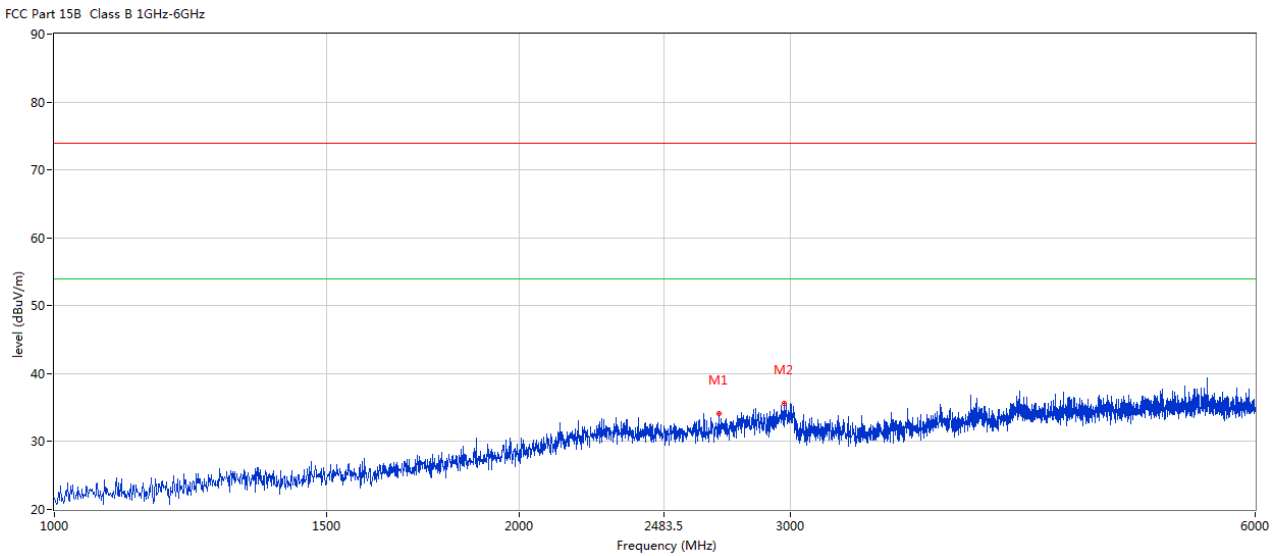
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**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	2697.076	34.13	-2.97	74.0	-39.87	Peak	1.00	100	V	Pass
2	2970.757	35.57	-2.65	74.0	-38.43	Peak	9.00	100	V	Pass

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## 6.0 FCC Label

### FCC ID: RGB-60TIMBD

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

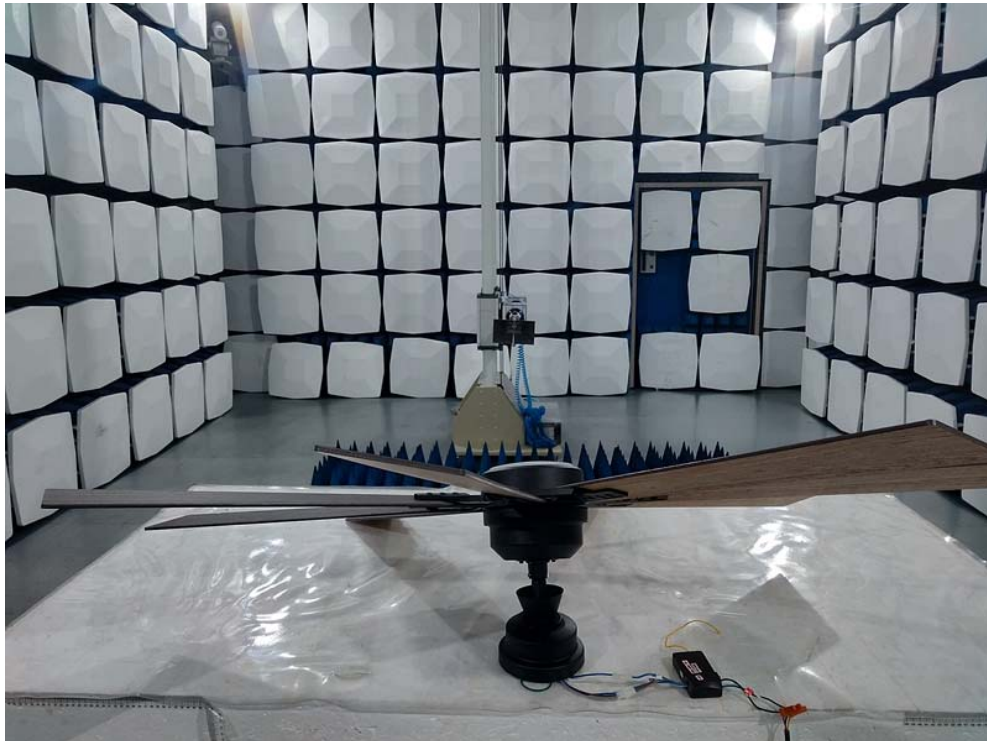
### Conducted Emissions



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### Radiated Emissions



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Photographs – EUT

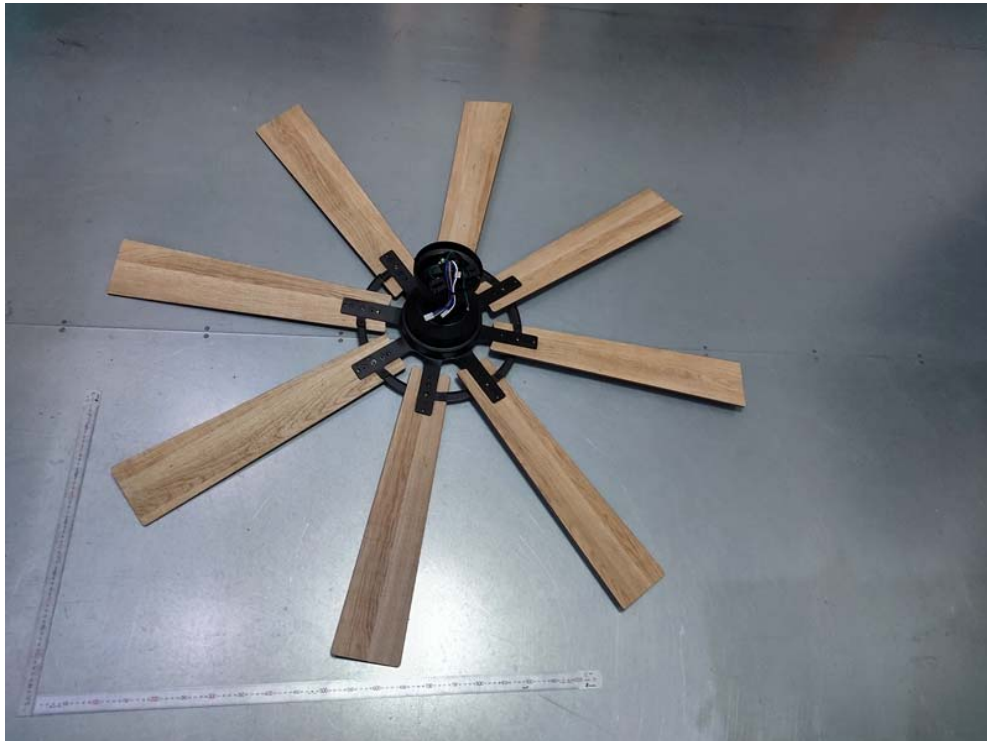
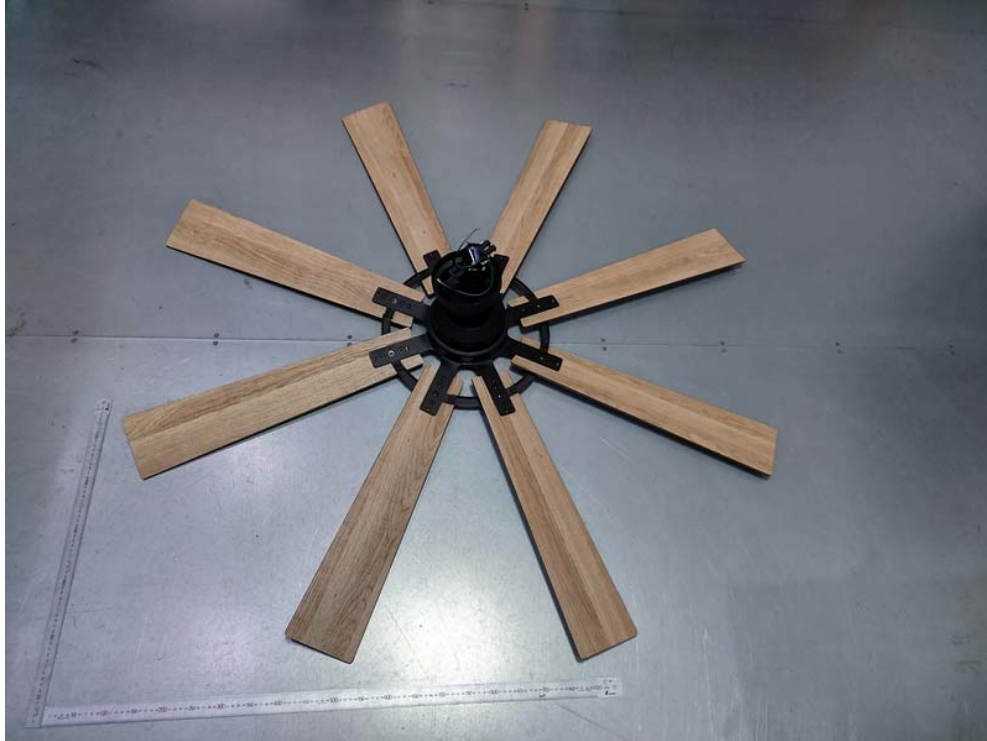


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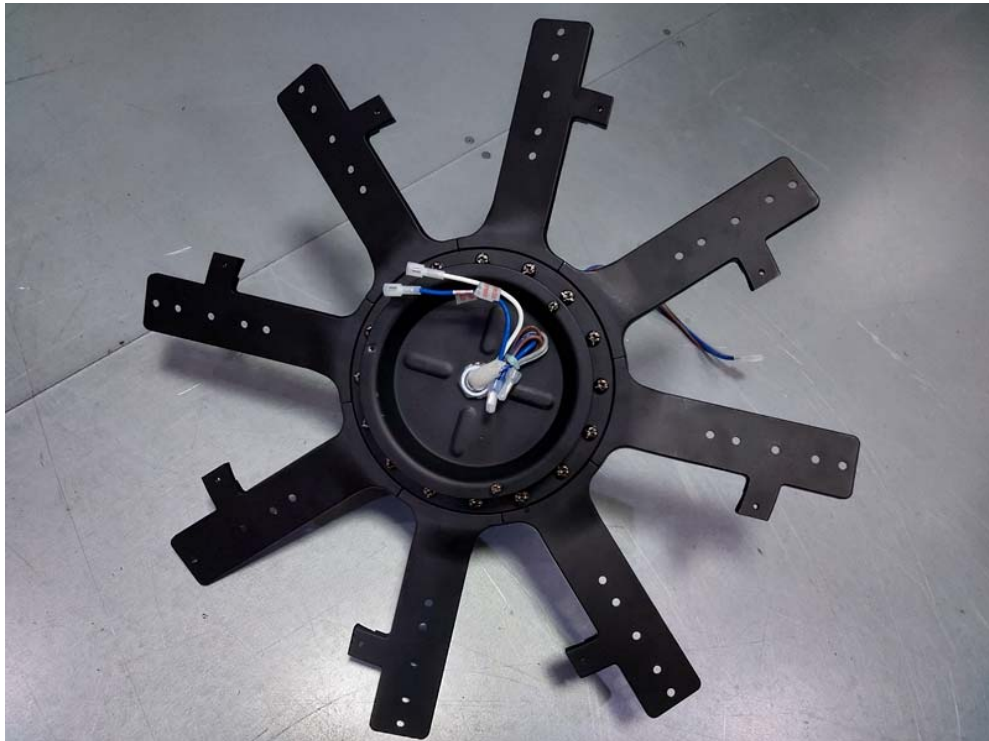


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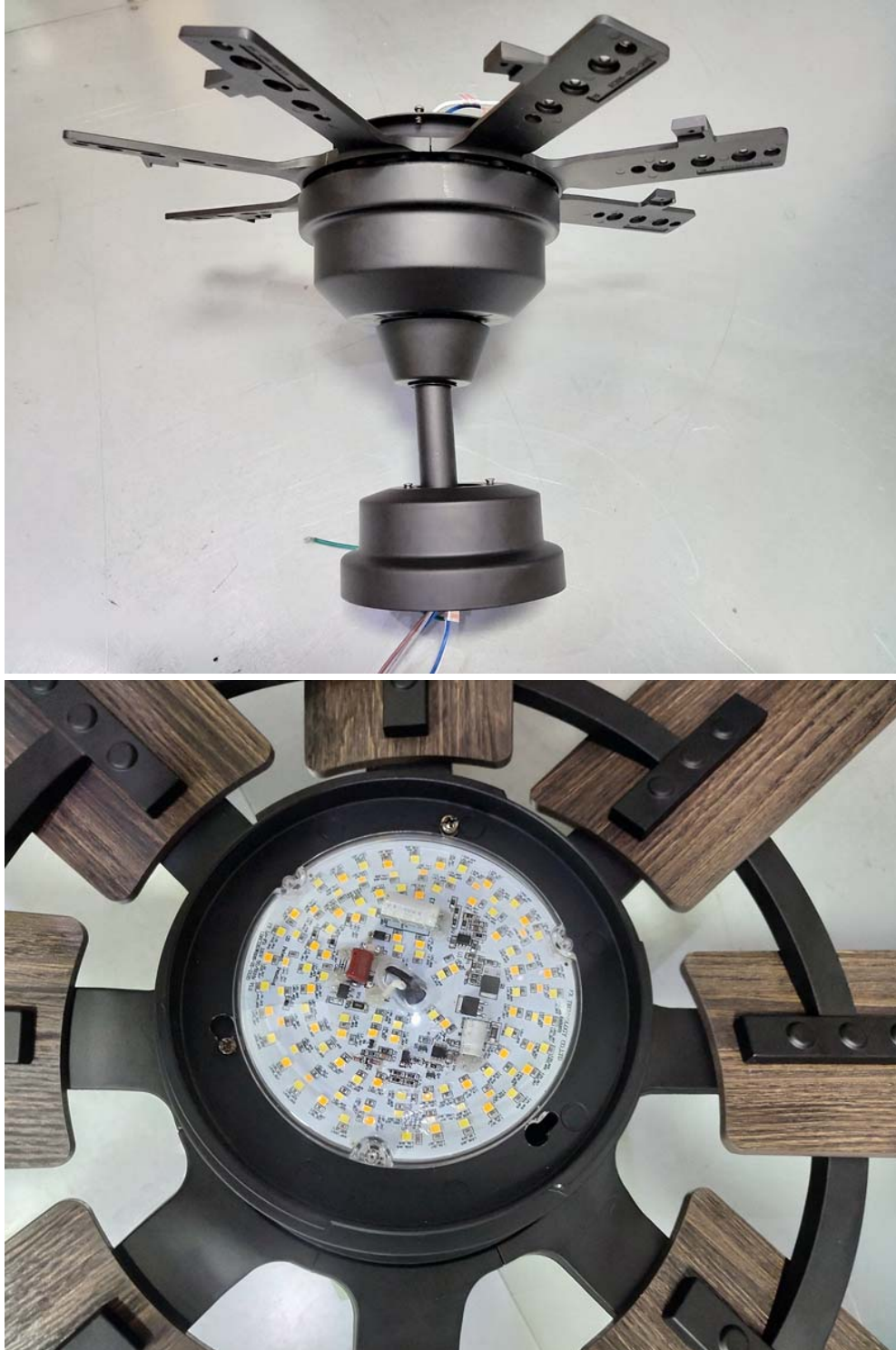


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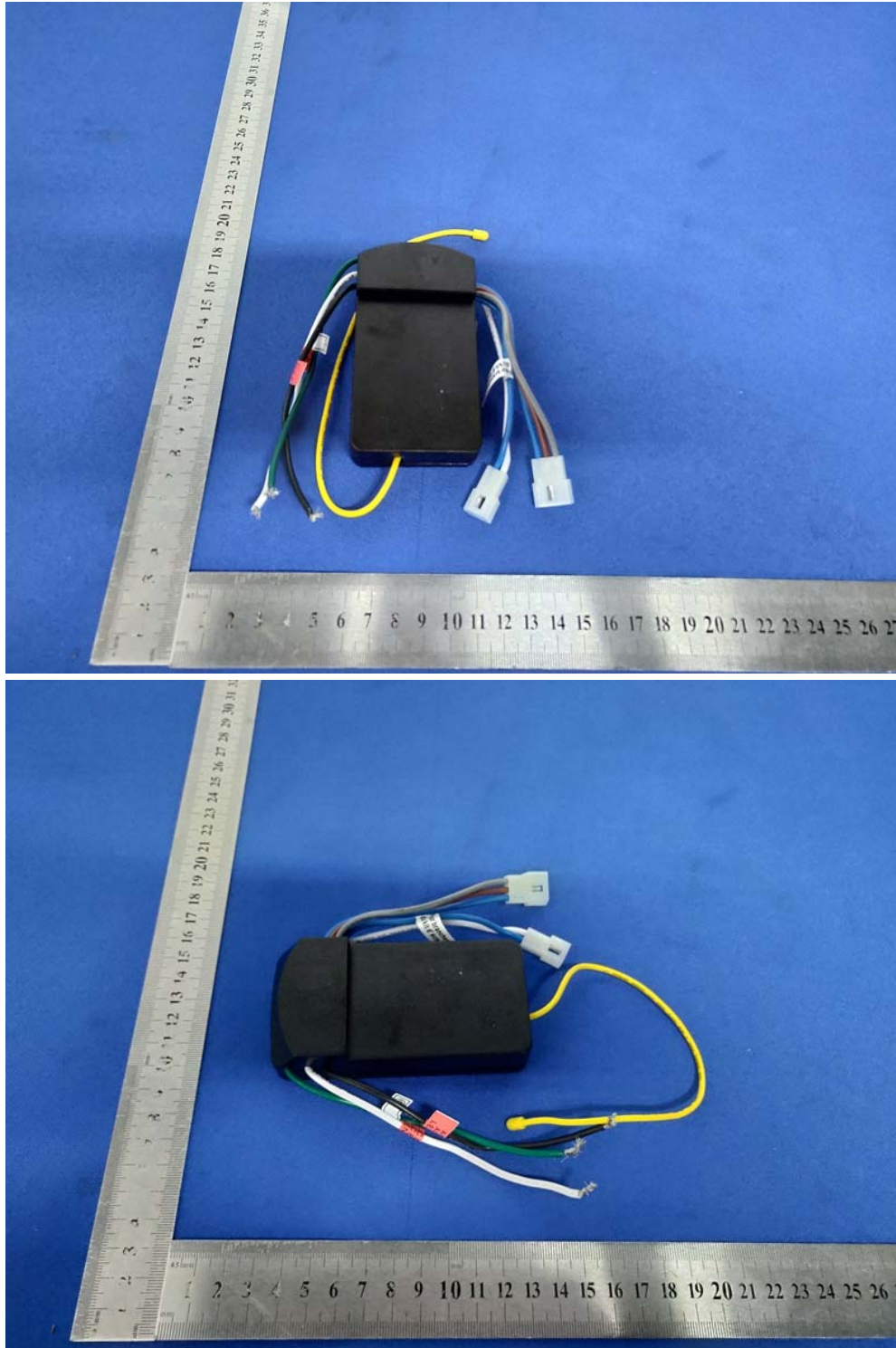


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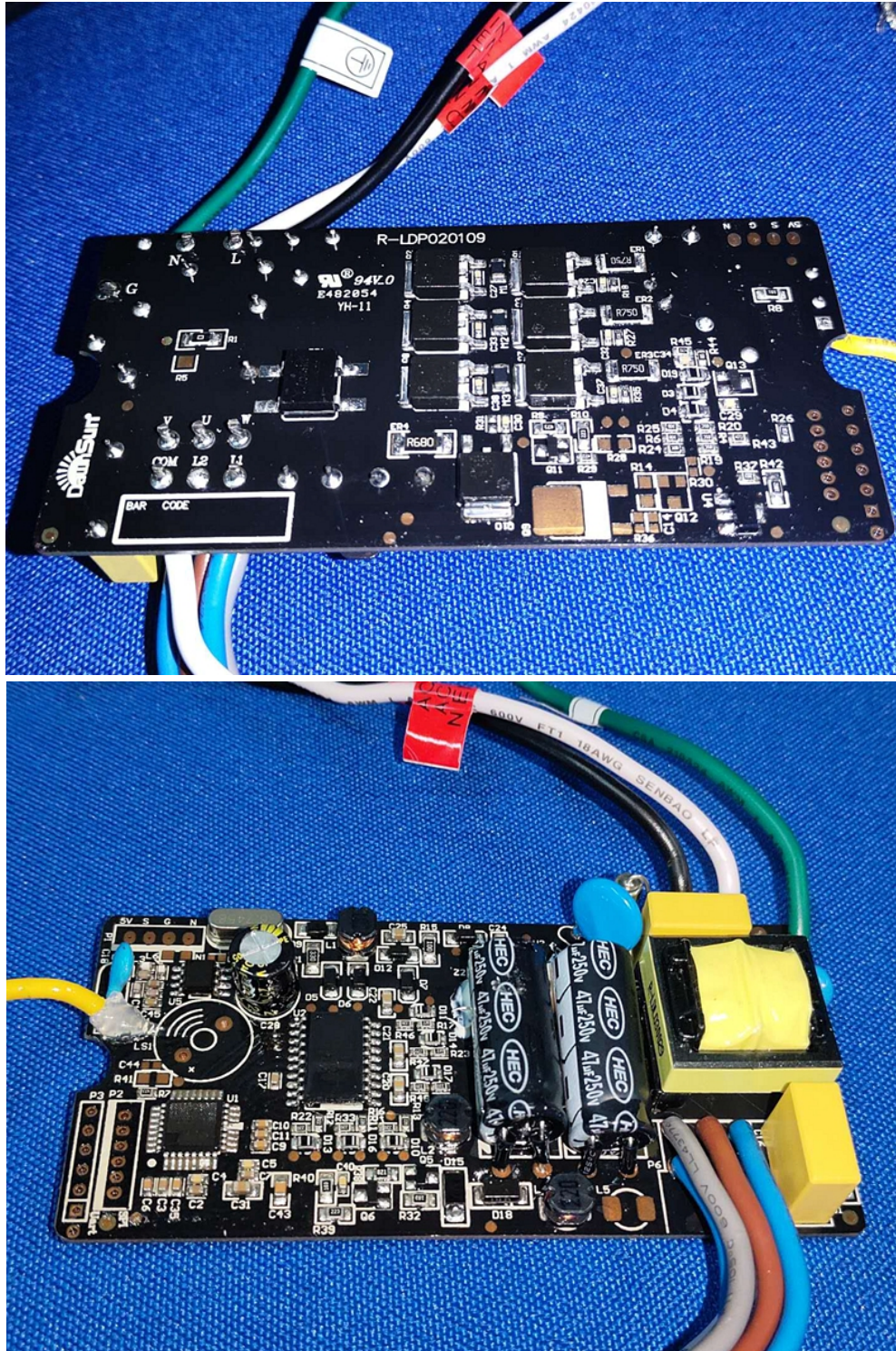
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**End of The Report**

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