



Report No: File reference No:	FCC1609174-01 2016-10-11				
Applicant:	King of Fans, Inc.				
Product:	60" Sudler Ridge				
Model No:	60-SUDE				
Trademark:	Home Decorators Collection				
Test Standards:	FCC Part 15 Subpart B: 2016				
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					
Jack Chung					
Jack Chung					
Manager					
Dated:	October 11, 2016				
Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at					
SHENZH	HEN TIMEWAY TESTING LABORATORIES				
Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China					

Shenzhen, Guangdong, China Tel (755) 83448688, Fax (755) 83442996, E-Mail: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.: 899988

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.: 899988.

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adopt any other remedies which may be appropriate.



1.0 **General Details**

1.1	Test Lab Details	
	Name :	SHENZHEN TIMEWAY TESTING LABORATORIES.
	Address:	Room 512-519,5/F., East Tower, Building 4, Anhua Industrial Zone,
		Futian District, Shenzhen, Guangdong China
	Telephone:	(755) 83448688
	Fax:	(755) 83442996
	Site on File with the Federal Con	mmunications Commission – United Sates
	Registration Number: 899988	
	For 3m & 10 m OATS	
	Site Listed with Industry Canada	a of Ottawa, Canada
	Registration Number: IC: 5205A	a-02
	For 3m & 10 m OATS	
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" Sudler Ridge
	Manufacturer:	Chienluen Industries (zhongshan) Ltd
	Address:	Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong
		China 528451
	Brand Name:	Home Decorators Collection
	Model Number:	60-SUDE
	Rating: Input:120V, 60Hz; Far	n W/O Light Kit: 0.6A, 72W; Fan W/Light Kit: 0.76A, 90W
	Rx Frequency: 304MHz	
1.4	Submitted Sample: 1 Samples	
1.5	Test Duration: 2016-09-28 to 20	16-10-10
1.6	Test Uncertainty	
	Conducted Emissions Uncertain	ty =3.6dB
	Radiated Emissions Uncertainty	=4.7dB
1.7	Test Engineer	Teng Tang

The sample tested by

Print Name: Terry Tong

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2016.06.11	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2016.06.11	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2016.06.11	1Year
LISN	ESH3-Z5	100294	RS	2016.06.11	1Year
LISN	ESH3-Z5	100253	RS	2016.06.11	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESVD	100008	RS	2016.06.11	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
	8595E	3441A00893		2016.06.11	
Spectrum Analyzer	8393E	5441A00895	HP		1Year
Amplifier	8447D	2727A05017	HP	2016.06.11	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2016.06.11	1Year
	9120D-631	BBHA	Schwarzbeck	2016-08-23	1Year
Horn Antenna	9120D-031	9120D	Schwarzbeck	2010-08-23	i i ear

2.3 Auxiliary Equipment

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle

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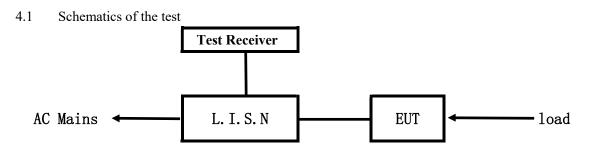
3.0 **Technical Details**

- 3.1 Investigations Requested Perform Electromagnetic Interference [EMI] tests for FCC Requirement.
- 3.2 Test Standards FCC Part 15 Subpart B: 2016

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4.0 Conducted Power line Test

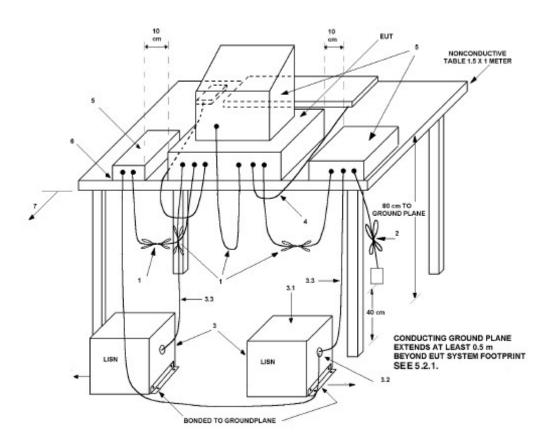


EUT: Equipment Under Test

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

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Enguanau(MHz)	Class A Li	mits dB(µV)	Class B Limits dB(µV)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50~\sim~5.00$	73.00	60.00	56.00	46.00	
$5.00 \sim 30.00$	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.

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0.0



A: Conducted Emission on Live Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa **EUT set Condition: Receiving Mode Equipment Level: Class B Results: PASS** Please refer to following diagram for individual 80.0 dBuV Qp: AVG: MWWW. Kan www. King An working MMM wath wath production of the state of the 40

0.0										
0.150		0.5			(MHz)		5			30.000
	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment	
	1	0.1712	40.50	11.02	51.52	64.90	-13.38	QP		
	2	0.1712	10.90	11.02	21.92	54.90	-32.98	AVG		
	3 *	0.1513	43.20	11.00	54.20	65.93	-11.73	QP		
	4	0.1513	6.00	11.00	17.00	55.93	-38.93	AVG		
	5	0.2395	36.50	11.09	47.59	62.11	-14.52	QP		
	6	0.2395	14.10	11.09	25.19	52.11	-26.92	AVG		
	7	0.4770	30.00	11.35	41.35	56.39	-15.04	QP		
	8	0.4770	12.20	11.35	23.55	46.39	-22.84	AVG		
	9	0.5311	30.60	11.40	42.00	56.00	-14.00	QP		
	10	0.5311	11.10	11.40	22.50	46.00	-23.50	AVG		
	11	0.6630	24.40	11.54	35.94	56.00	-20.06	QP		
	12	0.6630	11.20	11.54	22.74	46.00	-23.26	AVG		

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa **EUT set Condition: Receiving Mode Equipment Level: Class B Results: Pass** Please refer to following diagram for individual 80.0 dBuV Qp: AVG: Ŵ White Art VUU 40 0.0 0.5 (MHz) 5 30.000 0.150

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1710	38.70	11.02	49.72	64.91	-15.19	QP	
2		0.1710	8.80	11.02	19.82	54.91	-35.09	AVG	
3	*	0.4791	30.50	11.35	41.85	56.35	-14.50	QP	
4		0.4791	10.80	11.35	22.15	46.35	-24.20	AVG	
5		0.5743	29.40	11.45	40.85	56.00	-15.15	QP	
6		0.5743	11.00	11.45	22.45	46.00	-23.55	AVG	
7		0.6796	27.90	11.56	39.46	56.00	-16.54	QP	
8		0.6796	10.20	11.56	21.76	46.00	-24.24	AVG	

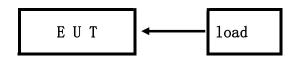
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

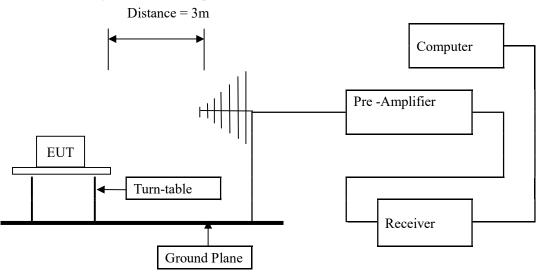


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 5GHz 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

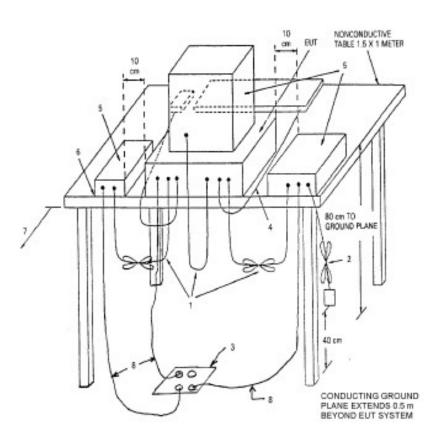
Block diagram of Test setup



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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 5GHz 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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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)

Receiving Mode EUT set Condition:

Results:

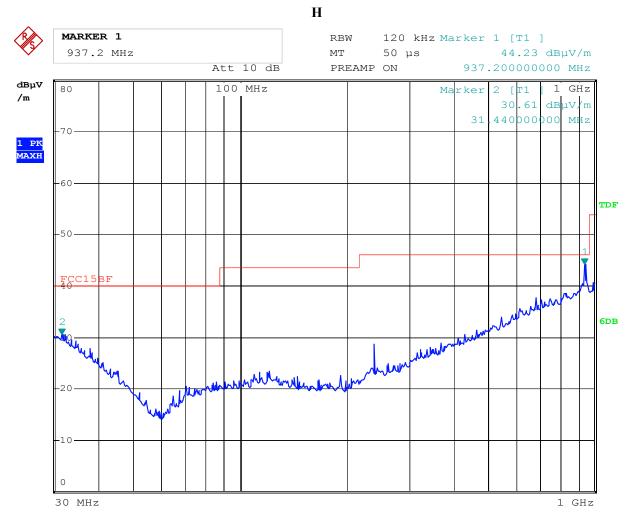
Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
937.200	44.23	Н	46.00
31.440	30.61	Н	40.00
105.880	29.55	V	43.50
946.040	42.89	V	46.00
30.520	32.01	V	40.00

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Test Figure:



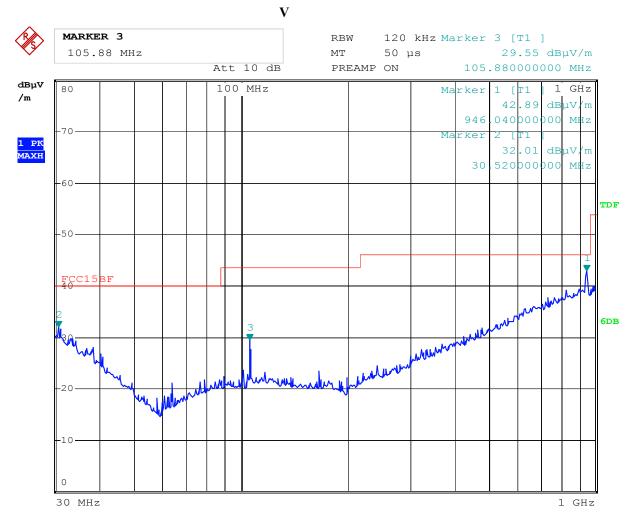
Date: 1.0CT.2016 01:24:33

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Test Figure:



Date: 1.0CT.2016 01:29:49

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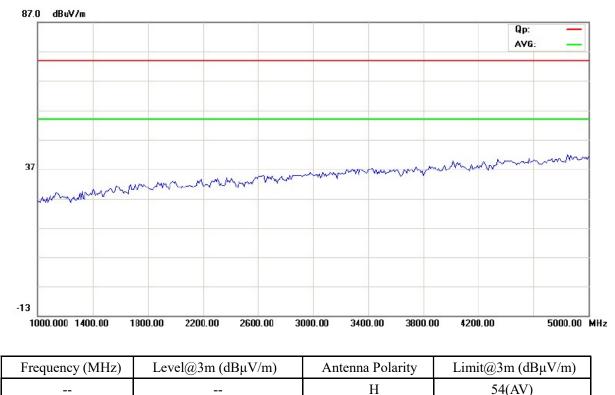


Radiated Disturbance (1000MHz----5000MHz)

EUT Operating Environment Temperature:25°C Humidity: 75%RH EUT set Condition: Receiving Mode Equipment Level: Class B Results: Pass

Atmospheric Pressure: 101 KPa

Please refer to following diagram for individual



Note: PK scan result curve is lower than AV limit

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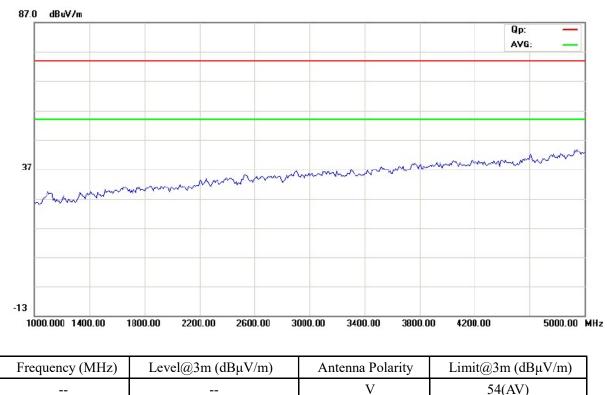


Atmospheric Pressure: 101 KPa

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

EUT Operating EnvironmentTemperature:25 °CHumidity: 75%RHEUT set Condition: Receiving ModeEquipment Level: Class BResults: Pass

Please refer to following diagram for individual



Note: PK scan result curve is lower than AV limit

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6.0 FCC ID Label

FCC ID: RGB-60SUDED

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.

Mark Location:



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