



BUREAU
VERITAS

Test Report No.: FS170831N001

RF EXPOSURE REPORT

Applicant	Brookstone Purchasing, Inc
Address	one innovation way, Merrimack New Hampshire 03054 United States

Manufacturer or Supplier	Shenzhen Relight Technology Co.,Ltd
Address	6th Floor, Building A, Guangcheng Industrial Park, Gongming Town, Guangming New District, Shenzhen Guangdong China
Product	Touch Lamp WITH WIRELESS CHARGING
Brand Name	N/A
SKU	324993
Model	MS-W9
Additional Model & Model Difference	N/A
Date of tests	Aug. 31, 2017 ~Sep. 18, 2017

47 CFR PART 1, Subpart I, Section 1.1310

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Tom Chen Project Engineer / EMC Department	Approved by Chris Chen Manager / EMC Department

Date: Sep. 19, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170831N001	Original release	Sep. 19, 2017



1. CERTIFICATION

FCC ID:	2AFVN-HD116A3GYA
PRODUCT:	Touch Lamp WITH WIRELESS CHARGING
BRAND NAME:	N/A
MODEL:	MS-W9
SKU:	324993
ADDITIONAL NO.:	N/A
APPLICANT:	Brookstone Purchasing, Inc
STANDARDS:	47 CFR PART 1, Subpart I, Section 1.1310



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2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

Description	Manufacturer	Model No.	Serial No.
Mobile phone	Apple	A1310	/

2.1 TEST LOCATION

All tests were performed at:

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch
No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China
Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

2.2 DEVIATION FROM STANDARDS

None

2.3 ABNORMALITIES FROM STANDARD CONDITIONS

None

3. EQUIPMENTS USED DURING TEST

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	2017-03-18
2	Electric Field Meter	Narda	Y2006	L-0017	2016-11-08



4. TEST RESULTS

4.1 RF EXPOSURE TEST

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
Measurement Distance: 10cm
Test voltage: DC 12V 2A from Adapter input 100-240V 50/60 Hz 0.6A
Max.

Limit:

Frequency range(MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100.000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100.000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

4.1.1 EUT OPERATION

Operating Environment:

Temperature: 24.0°C Humidity: 52% RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



4.1.2 MEASUREMENT DATA

Output Voltage=DC 5V; The max output power =10W

Wireless radiation frequency: 110-205KHz

Electric Field Emissions

Test Position	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	30% Limit (V/m)
Side 1	10	3.82	614	184.2
Side 2	10	3.89	614	184.2
Side 3	10	2.16	614	184.2
Side 4	10	3.73	614	184.2
Top	10	4.71	614	184.2
Bottom	10	3.28	614	184.2

Magnetic Field Emissions

Test Position	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)	30% Limit (A/m)
Side 1	10	0.0012	1.63	0.489
Side 2	10	0.0112	1.63	0.489
Side 3	10	0.0070	1.63	0.489
Side 4	10	0.0111	1.63	0.489
Top	10	0.0193	1.63	0.489
Bottom	10	0.0061	1.63	0.489

Note: All modes have been tested and we only record the worst test result in full load mode.

--- END ---