

Report No.: HK1901030021E01



RF Exposure Report

Test report
On Behalf of
ACOUSTMAX INTERNATIONAL CO., LTD
For
ROCKIN' ROLLER CHARGE SPEAKER
Model No.: MNRRC

FCC ID: 2AAINYS1352

Prepared for: ACOUSTMAX INTERNATIONAL CO., LTD

Unit D16/F Cheuk Nang Plaza 250 Hennessy Road Wanchai HongKong

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai

Street, Bao'an District, Shenzhen City, China

Date of Test: Dec. 28, 2018 ~ Jan. 30, 2019

Date of Report: Jan. 30, 2019

Report Number: HK1901030021E01





Page 2 of 13 Report No.: HK1812061813E01 Page 2 of 12

TEST RESULT CERTIFICATION

Applicant's name:			
Address:	Unit D16/ HongKon	F Cheuk Nang Plaza 250 Hennessy Road Wand g	hai
Manufacture's Name:	Arts Elect	ronics Co., Ltd.	
Vadroce :		HANGXING LU, SHANGJIAO COMMUNITY, CH ONGGUAN CITY, GUANGDONG PROVINCE,	
Product description			
Trade Mark:	MONSTE	R	
Product name:	ROCKIN'	ROLLER CHARGE SPEAKER	
Model and/or type reference :	MNRRC		
		, MNRRC3, MNRRCSE	
Difference Description	different r trading pւ	•	en only)for
Standards:	KDB 680	106 D01 RF Exposure Wireless Charging Bas	se App v03
	for dama acement	Testing Technology Co., Ltd. takes no responses resulting from the reader's interpretation and context.	•
Date (s) of performance of tests.	:	Dec. 28, 2018 ~ Jan. 30, 2019	
Date of Issue	:	Jan. 30, 2019	
Test Result	:	Pass	
Testing Engineer	:	Gogs Dianl	
		(Gary Qian)	
Technical Manager	:	Edon Hu	
		(Eden Hu)	
Authorized Signator	y :	Joson Zhou	

(Jason Zhou)





Report No.: HK1812061813E01 Page 3 of 12

Table of Contents	Page
1 . TEST SUMMARY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
2.2 OPERATION OF EUT DURING TESTING	6
2.3 DESCRIPTION OF TEST SETUP	6
5. TEST EQUIPMENT LIST	6
6. RADIO FREQUENCY (RF) EXPOSURE TEST	8
6.1. LIMITS	8
6.2. TEST SETUP	8
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	10



Report No.: HK1812061813E01

Page 4 of 12

1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
E and H field strength measurements	Compliant

1.2 TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address : 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road,

Heping Community, Fuhai Street, Bao'an District, Shenzhen,

Guangdong, China

Designation Number: : CN1229

Test Firm Registration Number: 616276

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

E-field strength = 0.2 dB, k=2H-field strength = 0.3 dB, k=2



Report No.: HK1812061813E01 Page 5 of 12

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

· · · · · · · · · · · · · · · · · · ·	
Operation Frequency	110~148kHz
Test Frequency	146.6kHz
Maximum field strength	50.65dBuV/m(Peak)@3m
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	RV01
Software Version	V00
Power Supply(by battery)	DC 12V by battery
Power Supply	AC 100-240V 50/60Hz



Report No.: HK1812061813E01 Page 6 of 12

2.2 OPERATION OF EUT DURING TESTING

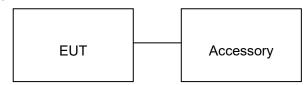
NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode(Full load)
2	Wireless charging Mode(half load)
3	Wireless charging Mode(Null load)

Note:

1. The mode 1 was the worst case and only the data of the worst case record in this report.

2.3 DESCRIPTION OF TEST SETUP

Configure:



Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	ROCKIN' ROLLER CHARGE SPEAKER	MONSTER	MNRRC	EUT
2	AC input Cable	N/A	2.0m unshielded	Accessory
3	Wireless electronic Load		Maximum power 5W	AE





Report No.: HK1812061813E01 Page 7 of 12

3. TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
Broadband Field	Narda Safety Test	NBM-550	J-0004	June 12, 2018	June 11, 2019	
Meter	Solutions GmbH	145101-000		04110 12, 2010	Julio 11, 2010	
Probe FHP	Narda Safety Test	EHP-50F	J-0015	June 12, 2018	June 11, 2019	
Probe FHP	Solutions GmbH	LI IF -30F	J-0015	Julie 12, 2016	Julie 11, 2019	



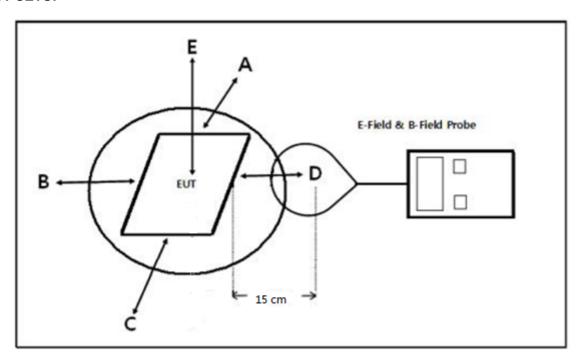
Report No.: HK1812061813E01 Page 8 of 12

4. RADIO FREQUENCY (RF) EXPOSURE TEST

4.1. LIMITS

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

4.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(20 cm measure distance);



Report No.: HK1812061813E01 Page 9 of 12

4.3. TEST PROCEDURE

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. For top side the measure distance is 15cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

4.4. TEST RESULT

Test condition: Mode 1
E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
146.6kHz	0.16	0.16	0.16	0.16	2.42	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
146.6kHz	0.18	0.18	0.18	0.18	0.41	1.63

Test condition: Mode 3
E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
110.4kHz	0.18	0.18	0.18	0.18	1.29	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
110.4kHz	0.16	0.16	0.16	0.16	0.36	1.63



Report No.: HK1812061813E01 Page 10 of 12

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E



Position A





Report No.: HK1812061813E01 Page 11 of 12

Position B



Position C





Report No.: HK1812061813E01 Page 12 of 12





----END OF REPORT----