

# Human Exposure Report

**Application No.:** SZEM2003001659CR  
**Applicant:** Theragun, Inc  
**Address of Applicant:** 2803 Colorado Avenue, Santa Monica, California 90404, United States  
**Manufacturer:** Theragun, Inc  
**Address of Manufacturer:** 2803 Colorado Avenue, Santa Monica, California 90404, United States  
**Factory:** Shenzhen Xiang Zhida Technology Co., Ltd  
**Address of Factory:** Room 101, 201, 301, 401, Building C, No.121 of Lianxin Road, Wulian Community, Longgang Street, Longgang District, Shenzhen, P.R.C.

**Equipment Under Test (EUT):**

**EUT Name:** Multi-Device Wireless Charger  
**Model No.:** Multi-Device Wireless Charger  
**Trade Mark:** Theragun  
**FCC ID:** 2AU6TMDWC-01  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2020-03-19  
**Date of Test:** 2020-03-21 to 2020-04-30  
**Date of Issue:** 2020-05-09

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above

Keny Xu  
EMC Laboratory Manager





<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2020-05-09		Original

<b>Authorized for issue by:</b>			
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## 2 Contents

<b>1</b>	<b>COVER PAGE</b> .....	<b>1</b>
<b>2</b>	<b>CONTENTS</b> .....	<b>3</b>
<b>3</b>	<b>GENERAL INFORMATION</b> .....	<b>4</b>
3.1	DETAILS OF E.U.T. ....	4
3.2	TEST LOCATION .....	5
3.3	TEST FACILITY .....	5
3.4	DEVIATION FROM STANDARDS .....	5
3.5	ABNORMALITIES FROM STANDARD CONDITIONS .....	5
<b>4</b>	<b>EQUIPMENTS USED DURING TEST</b> .....	<b>6</b>
<b>5</b>	<b>TEST RESULTS</b> .....	<b>7</b>
5.1	RF EXPOSURE TEST .....	7
5.1.1	<i>E.U.T. Operation</i> .....	7
5.1.2	<i>Measurement Data</i> .....	8
<b>6</b>	<b>PHOTOGRAPHS- RF EXPOSURE SETUP</b> .....	<b>8</b>



### 3 General Information

#### 3.1 Details of E.U.T.

Power Supply:	Adapter: Model:EA1046SAR Input:AC 100-240V 1.5A 50/60Hz Output:DC 20V 2.25A Wireless Output:27W
Operation Frequency:	110.256kHz to 125.160kHz
Modulation Type:	Load Modulation
Antenna Type:	Loop Antenna
Antenna Gain:	0dBi
Cable:	DC cable:94cm unshielded

**Remark:**

Model No.: Multi-Device Wireless Charger

The model Multi-Device Wireless Charger was tested fully, and the Conducted disturbance and Radiated emission(30M-1GHz) for discrepancy, since the electrical circuit design, PCB layout, components used and internal wiring were identical for the above models, with only difference add R48, C51, C27, CM1, C49, on PCBA , in order to improve energy, no impact RF.



### 3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 3.4 Deviation from Standards

None.

### 3.5 Abnormalities from Standard Conditions

None.



## 4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Shielding Room	SAEMC	MSR733	SEM001-09	2020-05-09
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-05-06



## 5 Test Results

### 5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
Measurement Distance: 0/2/4/6/8/10/15cm  
Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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).

#### 5.1.1 E.U.T. Operation

##### Operating Environment:

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

##### EUT Operation:

This device has been tested with Wave Roller at zero charge, intermediate charge, and full charge.



**5.1.2 Measurement Data**

1:Output Voltage=DC 18V; The max output power =27W

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
118 kHz	15	Side 1	0.0494	0.815
		Side 2	0.0419	0.815
		Side 3	0.0483	0.815
		Side 4	0.0433	0.815
		Top	0.0378	0.815

Wave Roller has been charge at zero charge, intermediate charge, and full charge.

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
118 kHz	15	Side 1	0.0588	0.0428	0.0384	0.815
		Side 2	0.0518	0.0399	0.0354	0.815
		Side 3	0.0594	0.0458	0.0415	0.815
		Side 4	0.0555	0.0432	0.0389	0.815
		Top	0.0474	0.0318	0.0278	0.815

**6 Photographs- RF exposure setup**

Refer to RF Exposure Setup Photos.

- End of the Report -

