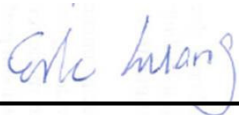


# RF Exposure Evaluation Report

**APPLICANT** : ACER INCORPORATED  
**EQUIPMENT** : Acer Wireless Power Bank  
**BRAND NAME** : Acer  
**MODEL NAME** : WPB1  
**FCC ID** : HLZWPB1  
**STANDARD** : FCC CFR 47 part 1, 1.1307(b) and 1.1310  
KDB 680106 D01v02

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with FCC CFR 47 part 1, 1.1307(b) and 1.1310, and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Eric Huang / Deputy Manager



Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

*No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)*



## Table of Contents

1. ADMINISTRATION DATA .....	4
2. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT) .....	4
3. RF EXPOSURE LIMIT INTRODUCTION .....	5
4. TEST MODE .....	6
5. MEASUREMENT EQUIPMENT.....	6
6. RF EXPOSURE EVALUATION .....	6
Appendix A. Test Setup Photo	
Appendix B. Calibration Certificate	



**Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA622001	Rev. 01	Initial issue of report	Apr. 07, 2016

## **1. Administration Data**

<b>Testing Laboratory</b>	
<b>Test Site</b>	SPORTON INTERNATIONAL INC.
<b>Test Site Location</b>	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978

<b>Applicant</b>	
<b>Company Name</b>	ACER INCORPORATED
<b>Address</b>	8F., No.88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)

<b>Manufacturer</b>	
<b>Company Name</b>	ACER INCORPORATED
<b>Address</b>	8F., No.88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)

## **2. Description of Equipment Under Test (EUT)**

<b>Product Feature &amp; Specification</b>	
<b>EUT Type</b>	Acer Wireless Power Bank
<b>Brand Name</b>	Acer
<b>Model Name</b>	WPB1
<b>FCC ID</b>	HLZWPB1
<b>Frequency Range</b>	110KHz ~ 205 KHz
<b>Moudlation Type</b>	• ASK
<b>HW Version</b>	SUN-G-161-01-ROC
<b>SW Version</b>	SN8P2743S(SUN-G-161)
<b>EUT Stage</b>	Identical Prototype
<b>Date of Test</b>	Mar. 10, 2016

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



### 3. RF Exposure Limit Introduction

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	6
1,500-100,000			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 <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz

\* = Plane-wave equivalent power density

(1) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception of transient persons, this phrase also means that an exposed person has received appropriate training regarding work practices relating to controlling or mitigating his or her exposure. Such training is not required for transient persons, but they must receive written and/or verbal information and notification (for example, using signs) concerning their exposure potential and appropriate means available to mitigate their exposure. The phrase exercise control means that an exposed person is allowed to and knows how to reduce or avoid exposure by administrative or engineering controls and work practices, such as use of personal protective equipment or time averaging of exposure.

(2) General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



4. Test Mode

This device has been tested in the following charging conditions as below:

Table with 3 columns: Test Mode, Test Setup Configuration, Charging Current Condition. Rows include TM1, TM2, and TM3.

Support Equipment:

Table with 3 columns: Name, Equipment Name, Type Number. Rows include Devant Technologies, Inc and Apple Inc.

5. Measurement Equipment

Table with 7 columns: Instrument, Manufacturer, Model No., Serial No., Freq Rang, Last Cal., Due Date. Row includes Electric and Magnetic field Probe-Analyzey.

6. RF Exposure Evaluation

- 1. The equipment under test was placed on a wooden desk inside of shield room. The isotropic field probe was used to measure the field strength for 6 EUT surfaces, and during measurement a separation of 10cm is maintained between EUT surface and the center of the field probe. The detail setup photo please refer to Appendix A.
2. Per KDB 680106 D01v02, for devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 10 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 10 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 and aggregate leakage fields at 10 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.

Table for E-Field Measurement (V/m) with columns for Position (Distance 10cm), A, B, C, D, E, F, G, and 30% of limit. Rows include TM1, TM2, and TM3.

Table for H-Field Measurement (A/m) with columns for Position (Distance 10cm), A, B, C, D, E, F, G, and 30% of limit. Rows include TM1, TM2, and TM3.

Conclusion:

The field strength limit refers to Part 1.1310 and the test result of exposure evaluation is compliant with 30% of the MPE limit. (E- Field: 184 V/m; H-field: 0.489A/m).