

# Human Exposure Report

**Application No.:** SZEM1904012508CR  
**Applicant:** MINISO Corporation  
**Address of Applicant:** Room 2501, No. 486 Heye Square Kangwang Middle Road, Liwan District, Guangzhou, Guangdong, 510140, China  
**Manufacturer:** Shenzhen Besiter Power Bank Co., Ltd  
**Address of Manufacturer:** Building 66, Longwangmiao Industrial Park, Baishixia Community, Fuyong Subdistrict, BaoAn District, Shenzhen, Guangdong, China  
**Factory:** Shenzhen Besiter Power Bank Co., Ltd  
**Address of Factory:** Building 66, Longwangmiao Industrial Park, Baishixia Community, Fuyong Subdistrict, BaoAn District, Shenzhen, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless charging panel  
**Model No.:** MC-018 \*  
\* Please refer to section 3.1 of this report which indicates which sample was actually tested and which were electrically identical.  
**Trade mark:** MINISO  
**FCC ID:** 2ART4-MC018  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
**Date of Receipt:** 2019-04-08  
**Date of Test:** 2019-04-12 to 2019-07-17  
**Date of Issue:** 2019-07-22

<b>Test Result :</b>	<b>Pass*</b>
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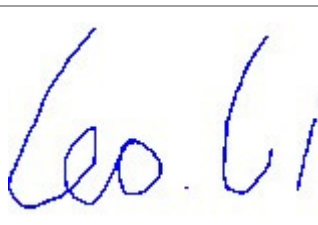

\* In the configuration tested, the EUT complied with the standards specified above

Keny Xu  
EMC Laboratory Manager



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**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2019-07-22		Original

<b>Authorized for issue by:</b>			
			
		<hr/> Leo Li /Project Engineer	
			
		<hr/> Eric Fu /Reviewer	



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### 3 General Information

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

Power supply: DC 5V from USB port  
 Input: DC 5V/2A; DC 9V/2A  
 Output:  
 WPC: 5W(DC 5V/1A), 7.5W(DC 5V1.5A), 10W(DC 9V/1.1A)

Antenna Type: Loop Antenna  
 Modulation Type: Load Modulation  
 Operation Frequency: 111.54kHz to 148.08kHz  
 Remark: Tests were conducted in all three load modes and the worst case 10W(DC 9V/1.1A) is reported only.

**Remark:**

Model No.: MC-018

Only the sample black widow was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above samples, with only difference on colour and decorations.

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
iPhone 8	Apple	A1863	F4GVQ656JC6D
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB





### 3.3 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.

### 3.4 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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.

### 3.5 Deviation from Standards

None.

### 3.6 Abnormalities from Standard Conditions

None.



## 4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-02-06



## 5 Test Results

### 5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 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: 24.5 °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.



**5.1.2 Measurement Data**

**Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.1Ω**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
143.6 kHz	15	Side 1	0.0219	0.815
		Side 2	0.0352	0.815
		Side 3	0.0277	0.815
		Side 4	0.0233	0.815
		Top	0.0244	0.815

**Mobile phone 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	
143.6 kHz	15	Side 1	0.0376	0.0256	0.0113	0.815
		Side 2	0.0554	0.0353	0.0158	0.815
		Side 3	0.0438	0.0302	0.0217	0.815
		Side 4	0.0394	0.0203	0.0158	0.815
		Top	0.0348	0.0219	0.0115	0.815







## 6 Photographs

### 6.1 Test setup photos

Please refer to RF Exposure Setup Photos.

- End of the Report -

