

RF EXPOSURE REPORT For FCC ID: 2AN8FMSL-W148Q

Product Name:	Wireless Power Bank
Trademark:	N/A
Model Number:	MSL-W148Q 7121-51/123983
Prepared For :	Shenzhen Mossloo Industrial Co.,Ltd
Address :	Road One No.4, Science Industrial Park, Shangxue Village, Bantian Street, Longgang District, Shenzhen, China
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Test Date:	Nov. 22, 2019 to Dec. 05, 2019
Date of Report :	Dec. 09, 2019
Report No.:	BCTC1911001389-1E

TEST RESULT CERTIFICATION

Applicant's name Shenzhen Mossloo Industrial Co.,Ltd

Address Road One No.4, Science Industrial Park, Shangxue Village, Bantian

Street, Longgang District, Shenzhen, China

Report No.: BCTC1911001389-1E

Manufacture's Name.....: Shenzhen Mossloo Industrial Co.,Ltd

Address Road One No.4, Science Industrial Park, Shangxue Village, Bantian

Street, Longgang District, Shenzhen, China

Product description

Product name Wireless Power Bank

Trademark: N/A

Model and/or type reference : MSL-W148Q

Serial Model : 7121-51/123983
Power Supply : Input: DC5V-2A

Output: DC5V-2.1A

Wireless Output: DC5V-1A

Standards FCC CFR 47 part1, 1.1307(b), 1.1310

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of BCTC, this document may be altered or revised by BCTC, personal only, and shall be noted in the revision of the document.

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Table of Contents Page 1. GENERAL INFORMATION 4 1.1 . Independent Operation Mode 4 1.2 . Test Supporting System 2 .LIST OF TEST AND MEASUREMENT INSTRUMENTS 5 2.1. For conducted emission at the mains terminals test 5 3. METHOD OF MEASUREMENT 6 3. 1.Applicable Standard 6 3. 2. Test Modes 6 3. 3. MAXIMUM PERMISSIBLE EXPOSURE 6 4. TEST RESULT 7 4.1. Conducted Emission at the Mains Terminals Test 7 4.2. Equipment Approval Considerations: 8 4.3. E and H field Strength 9 5. Photographs of test set-up 10

Report No.: BCTC1911001389-1E

1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

- 1.1.1. Charging
- 1.2. Test Supporting System

Mobile phone

Model No. : iphone8P Model No. : iphone

2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Exposure Level Tester	Narda	ELT-400	N-0231	Jul. 15, 2019	Jul. 14, 2020
Magnetic field probe 100cm2	Narda	B-Field Probe 100cm2	M0675	Jul. 15, 2019	Jul. 14, 2020
843 Chamber	ETS	843	84301	Aug. 27, 2018	Aug. 26, 2021



3. METHOD OF MEASUREMENT

3. 1.Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

3. 2. Test Modes

Test Modes keeping TX+Charging mode

3. 3. MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

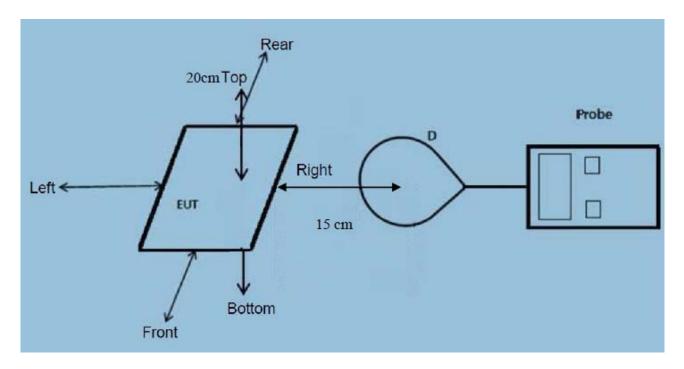
	Limits for Occupational / Controlled Exposure											
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)								
0.3-3.0	614	1.63	(100)*	6								
3.0-30	1842 / f	4.89 / f	(900 / f)*	6								
30-300	61.4	0.163	1.0	6								
300-1500			F/300	6								
1500-100,000			5	6								

Limits for General Population / Uncontrolled Exposure									
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)					
0.3-1.34	614	1.63	(100)*	30					
1.34-30	824/f	2.19/f	(180 / f)*	30					
30-300	27.5	0.073	0.2	30					
300-1500			F/1500	30					
1500-100,000			1	30					



4. TEST RESULT

4.1. Conducted Emission at the Mains Terminals Test



Note: 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

Test Procedure:

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v03.

Report No.: BCTC1911001389-1E

4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 D01v03

- 1) Power transfer frequency is less than 1MHz
 Yes, the device operate in the frequency range from 110-220KHz
- 2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 5W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

No, the EUT is a portable device, this item is not applicable.

6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 10% of the MPE limit.

Yes, the EUT field strength levels are less than 10% MPE limit.

4.3. E and H field Strength

(The worst data)

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Report No.: BCTC1911001389-1E

Battery	Frequency	Test	Test	Test	Test	Test	10%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Limits Test	Test
10 001	Range (IVII IZ)							
		A	В	С	D	Е	(V/m)	(V/m)
1%	0.110-0.220	0.79	0.62	0.63	0.69	0.61	61.4	614
50%	0.110-0.220	0.64	0.56	0.53	0.55	0.48	61.4	614
99%	0.110-0.220	0.55	0.38	0.41	0.50	0.52	61.4	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery	Frequency	Test	Test	Test	Test	Test	10%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Limits Test	Test
		Α	В	С	D	Е	(A/m)	(A/m)
1%	0.110-0.220	0.101	0.114	0.114	0.117	0.095	0.163	1.63
50%	0.110-0.220	0.114	0.101	0.102	0.116	0.081	0.163	1.63
99%	0.110-0.220	0.112	0.102	0.110	0.103	0.122	0.163	1.63

E-Field Strength at 0 cm surrounding the EUT and 0cm above the top surface of the EUT

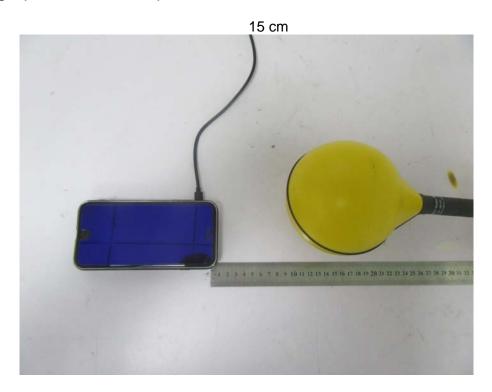
Battery	Frequency	Test	Test	Test	Test	Test	10%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Limits Test	Test
		Α	В	С	D	Е	(V/m)	(V/m)
1%	0.110-0.220	0.83	0.627	0.68	0.72	0.65	61.4	614
50%	0.110-0.220	0.72	0.58	0.55	0.59	0.49	61.4	614
99%	0.110-0.220	0.58	0.39	0.45	0.53	0.62	61.4	614

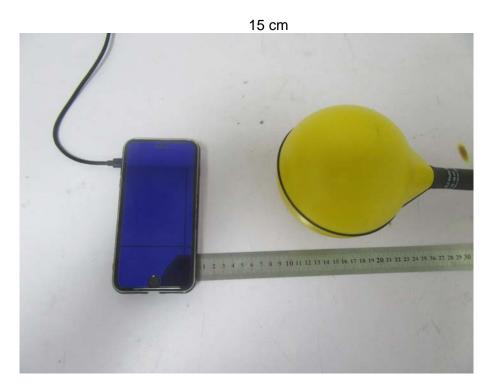
H-Field Strength at 0 cm surrounding the EUT and 0cm above the top surface of the EUT

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Battery	Frequency	Test	Test	Test	Test	Test	10%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Limits Test	Test
		Α	В	С	D	Е	(A/m)	(A/m)
1%	0.110-0.220	0.105	0.134	0.125	0.123	0.103	0.163	1.63
50%	0.110-0.220	0.117	0.103	0.113	0.121	0.091	0.163	1.63
99%	0.110-0.220	0.1197	0.110	0.124	0.114	0.124	0.163	1.63



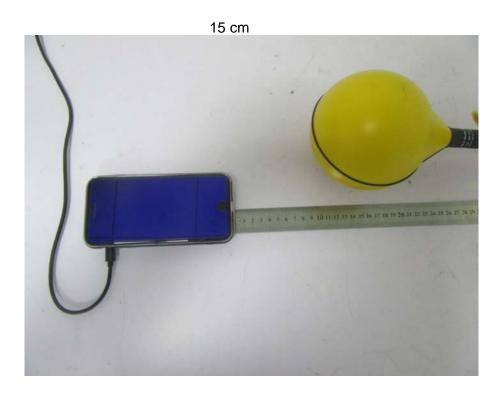
5. Photographs of test set-up

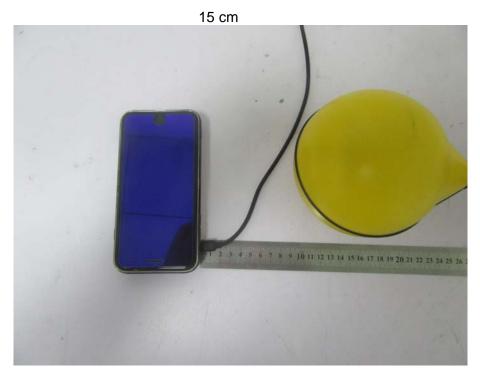




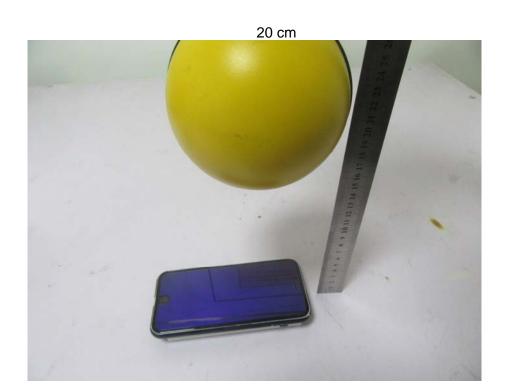








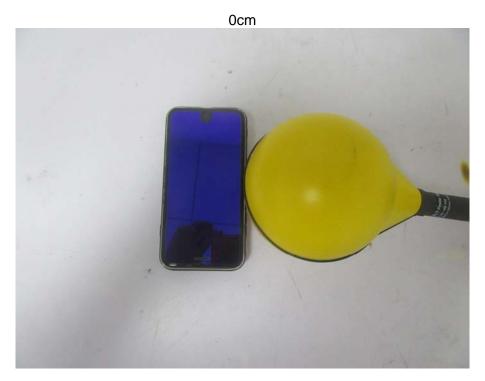






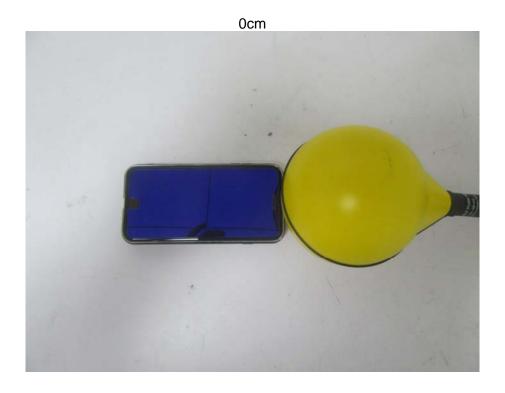














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