

FCC TEST REPORT

For

Shenzhen Mossloo Industrial Co.,Ltd

Wireless Charging Pad

Model No.: MSL-M02Q

Prepared For : Shenzhen Mossloo Industrial Co.,Ltd

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

Street, Longgang District, Shenzhen, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : SZAWW180601001-02

Date of Test : Jun. 01~28, 2018

Date of Report : Jun. 28, 2018





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TEST REPORT

Applicant Shenzhen Mossloo Industrial Co., Ltd

Manufacturer Shenzhen Mossloo Industrial Co., Ltd

Product Name Wireless Charging Pad

Model No. MSL-M02Q

Trade Mark

Date of Test

Rating(s) Input: DC 5V, 1.5A

Output: DC 5V, 1A

Test Standard(s) FCC Part 1.1310, 1.1307(b)

Test Method(s) KDB680106 D01 RF Exposure Wireless Charging Apps v03

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Jun. 01~28, 2018 Prepared by (Engineer / Oliay Yang) Ambote Reviewer (Supervisor / Calvin Liu) Approved & Authorized Signer (Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Mossloo Industrial Co.,Ltd
Address	:	Road One No.4, Science Industrial Park, Shangxue Village, Bantian Street, Longgang District, Shenzhen, China
Manufacturer	:	Shenzhen Mossloo Industrial Co.,Ltd
Address	:	Road One No.4, Science Industrial Park, Shangxue Village, Bantian Street, Longgang District, Shenzhen, China

1.2. Description of Device (EUT)

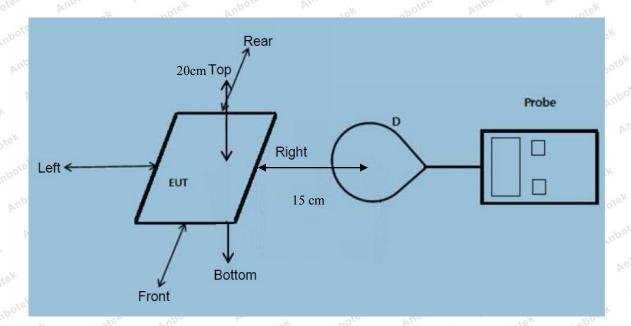
NO.		464	K -Ole Mus
Product Name	:	Wireless Charging Pad	Anbotek Anbotek Anbotek Anbotek
Model No.	:	MSL-M02Q	Anbotek Anbotek Anbotek Anbo
Trade Mark	:	N.A.	tek Anbotek Anbote Anbotek Ar
Test Power Supply	:	AC 120V, 60Hz for adapter / AC	C 240V, 60Hz for adapter
		Operation Frequency:	110-205KHz
	:	Number of Channel:	20 Channels
Product Description		Modulation Type:	MSK Anbotek Anbotek Anbotek
·		Antenna Type:	Loop Antenna
		Antenna Gain(Peak):	0 dBi
Damanda 1 E	00-	detailed Continue description als	and refer to the manufacturer's amodifications on the

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

	Adapter	:	Manufacturer: ZTE	An	bo. b	wotek	Aupole
			M/N: STC-A2050I1000USBA-C				abotek
			S/N: 201202102100876				Vi.
			Input: 100-240V~50/60Hz 0.3A				Ann
5,			Output: DC 5V, 1000mA				tek Aup





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

FCC ID: 2AN8F-MSLM02Q

1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Magnetic field meter	NARDA	ELT-400	423623	May 27, 2018	1 Year

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

All Emissions tests were performed at Shenzhen Anbotek Compliance Laboratory Limited. at 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

FCC ID: 2AN8F-MSLM02Q

2. Measurement and Result

2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- 1) Power transfer frequency is less that 1 MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 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 50% of the MPE limit.

Limits For Maximum Permissible Exposure (MPE)

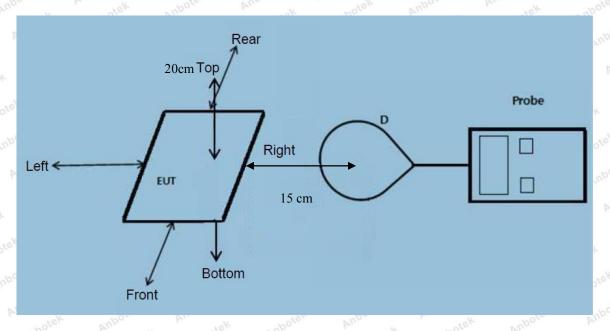
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	Population/Uncontrolle	ed Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	1	1.0	30

F=frequency in MHz

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).

⁼Plane-wave equivalent power density

2.2. Test Setup



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

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (15 cm) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.(A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB $680106\ D01\ v03$.

Remark;

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03
- 1) Power transfer frequency is less that 1 MHz
- The device operate in the frequency range from 110 KHz to 205 KHz
- 2) Output power from each primary coil is less than 15 watts
 - 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 are able to detect and allow coupling only between individual pairs of coils
 - The transfer system including a charging system with only single primary coils is to detect and allow only

between individual pairs of coils.

- 4) Client device is inserted in or placed directly in contact with the transmitter
- Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
 - The EUT is a Mobile Power Pack with Wireless Charger
- 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 50% of the MPE limit.
- The EUT E-Field Strength levels at $15\,$ cm $\,$ & The EUT H-Field Strength levels at $15\,$ cm $\,$ are less than 50% the MPE limit.

The test results please refer to the section 2.4.2

2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

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

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Referenc e Limit (V/m)	Limits Test (V/m)
1%	110~ 205		0.37	0.33	0.35	0.26	307	614
50%	110~ 205	1.24	1.27	1.34	1.36	1.38	307	614
99%	110~ 205	2.57	2.43	2.31	2.40	lek Aupo	307	614
Stand-by	110~ 205	0.46	0.34	0.26	0.35	0.26	307	614

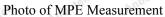


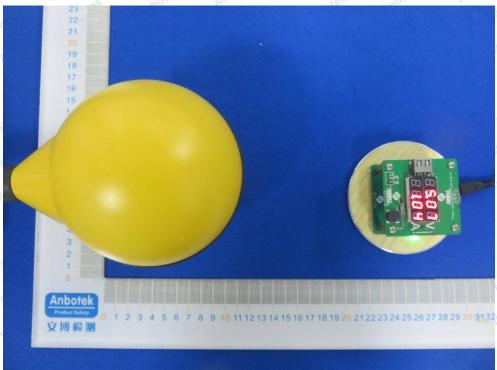
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

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dek	Frequency	Test	Test	Test	Test	Test	Referenc	Limits
Battery	Range	Position	Position	Position	Position	Position	e e	Test
power	(KHz)	Apotek	B	otek C	ote ^K D	E E	Limit (A/m)	(A/m)
Am	k Anbote	K Anbo	notek h	mbotek	Anbote.	Annabotek	Anbotek	Anb
1%	110~ 205	0.085	0.096	0.084	0.085	0.072	0.815	1.63
re. Anu	notek p	nbotek	Anbore	All	Anbote	K Anbo	stek or	botek
boto P	botek	Anbotek	Anbor	k anbol	ek Anh	ofer Aug	hotek	Anbotek
50%	110~ 205	0.13	0.16	0.15	0.17	0.12	0.815	1.63
Anboten	Anbe	Anbot	ek Anb	ore Vu	abotek	Anbotek	Anborotek	Ar.
Anbore	And And	tek An	potek P	upo.	Anbotek	Anboter	Anb	ek p
99%	110~ 205	0.24	0.26	0.38	0.42	0.37	0.815	1.63
potek P	upoten A	hotek	Anbotek	Anbote	K VIII	rek Anbr	tek An	otek.
Anbotek	Anbote.	And	Anbote	Anbot	stek An	obotek A	poter	Anbanotek
Stand-by	110~ 205	0.17	0.18	0.10 An	0.14	0.16	0.815	1.63
Am	nnbotek	Anbox	, ok	notek	Anbote.	Ann	abotek	Anbo



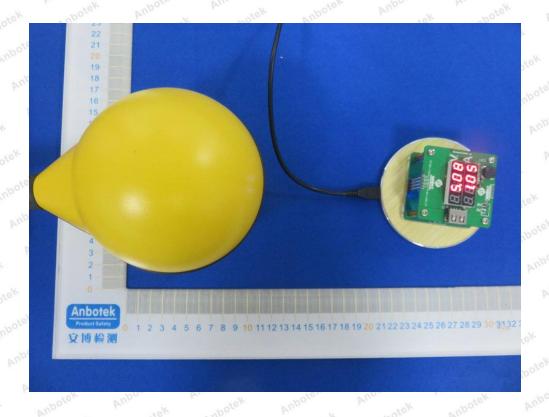
APPENDIX I -- TEST SETUP PHOTOGRAPH

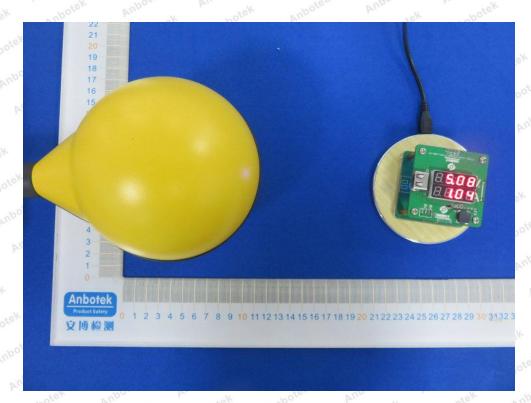




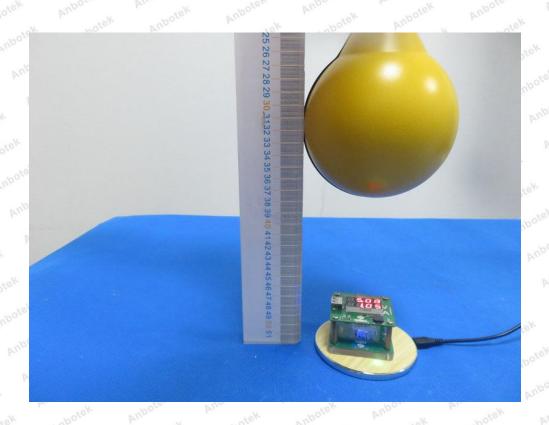












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