FCC MPE TEST REPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.

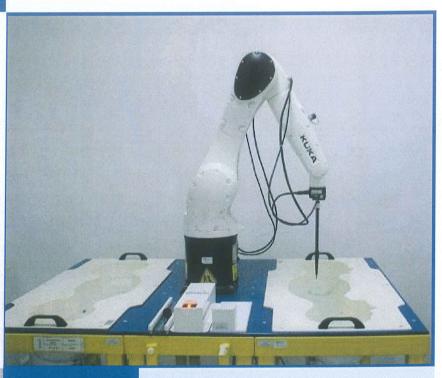


FOR

E504 series

ISSUED TO Emomo Technology Co., Ltd.

4th Floor, Yonghe Building, Taiwan Industrail Park, Shiyan Town, Baoan, ShenZhen, Guangdong, China.



Tested by:

Tu Lang

(Engineer)

Date BALUN

Wel Vanquan

(Chief Engineer)

Date 1, 17, 7, 7

Report No.: BL-SZ1670062-702

EUT Type: E504 series

Model Name: E504

Brand Name: Emomo

Test Standard: 47 CFR Part 1.1307

47 CFR Part 1.1310

FCC ID: A4E-E504

Test Conclusion: Pass

Test Date: Oct. 26, 2016 ~ Oct. 29, 2016

Date of Issue: Feb. 17, 2017

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Revision History

Version Issue Date Revisions Content

Rev. 01 Feb. 17, 2017 Initial Issue

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi
Address	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.
	China.
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi
Address	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.
	China.
	The laboratory has been listed by Industry Canada to perform
	electromagnetic emission measurements. The recognition numbers
	of test site are 11524A-1.
Accreditation	The laboratory has been listed by US Federal Communications
Certificate	Commission to perform electromagnetic emission measurements.
Certificate	The recognition numbers of test site are 832625.
	The laboratory is a testing organization accredited by China National
	Accreditation Service for Conformity Assessment (CNAS) according
	to ISO/IEC 17025. The accreditation certificate number is L6791.
	All measurement facilities used to collect the measurement data are
Description	located at Block B, FL 1, Baisha Science and Technology Park,
Description	Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province,
	P. R. China 518055

1.3 Test Environment Condition

Ambient Temperature	21 to 23 °C
Ambient Relative Humidity	40 to 50%
Ambient Pressure	100 to 102 KPa

1.4 Announce

- (1) The test report reference to the report template version v1.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are



duly noted in the revisions section.

(6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant Emomo Technology Co., Ltd.	
Address	4th Floor, Yonghe Building, Taiwan Industrail Park, Shiyan Town,
Address	Baoan, ShenZhen, Guangdong, China.

2.2 Manufacturer Information

Manufacturer	Emomo Technology Co., Ltd.
Addross	4th Floor, Yonghe Building, Taiwan Industrail Park, Shiyan Town,
Address	Baoan, ShenZhen, Guangdong, China.

2.3 Factory Information

Factory	Emomo Technology Co., Ltd.		
Address	4th Floor, Yonghe Building, Taiwan Industrail Park, Shiyan Town,		
Address	Baoan, ShenZhen, Guangdong, China.		

2.4 General Description for Equipment under Test (EUT)

EUT Type	E504 series
Model Name Under	E504
Test	
Carias Madal Nama	E504, E504A, E504B, E504C, E504-W, E504A-W, E504B-W, E504C-
Series Model Name	W
	E504 series of product are wireless charging coil with the function of
Description of Model	wireless charging. This series "W" means white, the color of this
Name Differentiation	product. "A" "B" "C" only shows the appearance such as color
	differences, there is no difference of function.
Hardware Version	V1
Software Version	V1
Network and Wireless	0100
connectivity	QI 2.0

2.5 Ancillary Equipment

Charger		
Ancillary Equipment 1	Brand Name	Dongguan GaoYi Electronic Co., Ltd
	Model No.	RSS1006-100050-W2-B



Serial No.	N/A
Rated Input	100-240 V~, 0.6 A, 50/60 Hz
Rated Output	5 V=,2.0 A

2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	110~205 kHz	
Antenna Type	Coil Antenna	
About Product	The EUT only support the QI tecl	hnology.
Exposure Category	General Population/Uncontrolled	exposure
EUT Stage	Mobile Device	
Draduct	Туре	
Product		☐ Identical prototype

3 STANDARD INFORMATION

3.1 Test Standard

No.	Identity	Document Title
1	47 CFR Part 1	Practice and Procedure
2	KDB 680106 D01	RF Exposure Considerations for Low Power Consumer
2	KDB 600100 D01	Wireless Power Transfer Applications

3.2 Radiofrequency Radiation Exposure Limit

Frequency	Electric field	Magnetic field	Power	Averaging			
range	strength	strength	density	time			
(MHz)	(V/m)	(A/m)	(mW / cm ²)	(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 ²	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 ²	30			
30-300	27.5	0.073	0.2	30			
300-1,500			f/1500	30			
1,500-100,000			1.0	30			
$f = \overline{frequency} \text{ in } M$	Hz * = Plane-wave equi	valent power density					

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no



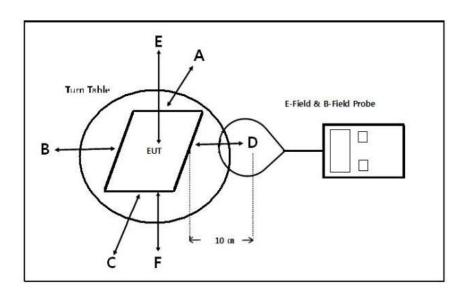
knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

4 TEST SETUP

4.1 Test Setup Photo

Maximum E-field and H-field measurements were made on each of five sides of the EUT that could come in contact with a user. The five sides are defined as follows: Top (A), Left (B), Bottom (C), Right (D), and Front (E). Refer to the test position diagram below.



4.2 Measurement procedure

- 1. The RF exposure test was performed in anechoic chamber.
- 2. The measurement probe was placed at test distance (10 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, F) were completed.
- 4. The EUT was measured according the dictates of KDB 680106 D01v02.



4.3 Mobile Condition

Probe	Condition	Test Distance (cm)
E-field	Mobile	10
H-field	Mobile	10

4.4 Test Equipment

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
E-field Probe	Narda	EP601	511WX51129	2016.05.13	2017.05.12
H-field Probe	Schaffner	EMC-20	1324.11	2016.05.13	2017.05.12
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2016.03.28	2017.03.27

4.5 Test Configuration

To check all kinds of possible modes, the EUT was evaluated with appropriate client and under each charging condition as the below table:

Test Mode					
NO.	Description				
1	Idle Mode The EUT was powered on and there is no client device attached with the EUT.				
2	Charging Mode	The EUT was charging the client device which has Less than			
2	Charging Mode	1 % of battery.			
		The EUT was charging the client device which has Less than			
3	Charging Mode	50 % of battery.			
		The EUT was charging the client device which has 100 % of			
4	Charging Mode	battery.			

5 TEST RESULT

5.1 E-field

			EUT Edges				
Distance	Test	Α	В	С	D	Е	Limit
(cm)	Mode	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)
	1	6.75	6.35	6.36	6.27	6.86	
10	2	7.05	6.52	6.46	6.33	7.33	614.0
10	3	6.38	5.55	5.68	5.78	6.96	014.0
	4	6.21	5.72	5.85	5.96	.6.25	



5.2 H-field

			EUT Edges				
Distance	Test	Α	В	С	D	Е	Limit
(cm)	Mode	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)
	1	0.020	0.016	0.016	0.015	0.021	
10	2	0.021	0.017	0.017	0.016	0.023	1.63
10	3	0.019	0.015	0.015	0.015	0.021	1.03
	4	0.018	0.016	0.015	0.016	0.020	

6 Test Conclusion

6.1 E-field

		EUT Edge	E-file Limit	30% E-file	
Distance	Worst-case	Е		Limit	Verdict
(cm)	Test Mode	(V/m)	(V/m)	(V/m)	
10	2	7.33	614.0	184.2	Pass

6.2 H-field

		EUT Edge	H-file Limit	30% E-file	
Distance	Worst-case	Е		Limit	Verdict
(cm)	Test Mode	(A/m)	(A/m)	(A/m)	
10	2	0.023	1.63	0.49	Pass

The E-field and H-field data shown in this report show that the EUT is compliant with the 30% of the MPE limits.

--END OF REPORT--