

FCC Test Report

Report No.: AGC04094190701FE03

FCC ID : 2AEWEF001592

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Aluminum 10W wireless charger

BRAND NAME : N/A

MODEL NAME : F001.592

APPLICANT : Xindao B.V.

DATE OF ISSUE : Jul. 25, 2019

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Rules

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 25, 2019	Valid	Initial Release

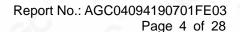




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1. VERIFICATION OF CONFORMITY

Applicant	Xindao B.V.			
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands			
Manufacturer	Xindao B.V.			
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands			
Factory	Xindao B.V.			
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands			
Product Designation	Aluminum 10W wireless charger			
Brand Name	N/A			
Test Model	F001.592			
Date of test	Jul. 11, 2019 to Jul. 24, 2019			
Deviation	None			
Condition of Test Sample	Normal			
Test Result	Pass			
Report Template	AGCRT-US-BR/RF			

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with Section 15.207, 15.209, 15.203 of the FCC Part 15, Subpart C Rules. The results of testing in this report apply to the product/system which was tested only.

Tested By	Er.k Yeng		
	Erik Yang(Yang Jianmin)	Jul. 24, 2019	
Reviewed By	Max Zhang		
	Max Zhang(Zhang Yi)	Jul. 25, 2019	
Approved By	Forrest Wi		
	Forrest Lei(Lei Yonggang) Authorized Officer	Jul. 25, 2019	



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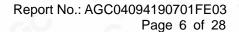
2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	110-205 kHz	
Test Frequency	133.5 kHz	
Maximum field strength	55.65dBuV/m(PK)@3m	
Modulation	FSK	
Number of channels	1 0 0	
Antenna Gain	0dBi	
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)	
Hardware Version	LWK-F12 V1.0	
Software Version	V1.0	
Power Supply	DC 5V/2A or DC 9V/1.67A by Micro-USB	







3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB



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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode(Full load)
2	Wireless charging Mode(half load)
3	Wireless charging Mode(Null load)

Note:

1. The mode 1 was the worst case and only the data of the worst case record in this report.



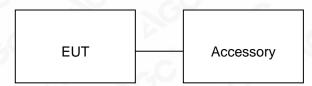


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Aluminum 10W wireless charger	F001.592	2AEWEF001592	EUT
2	Adapter	HW-050100O2W	DC5V 2A, DC 9V 1.67A	Accessory
3	Load	N/A	10W	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES DESCRIPTION OF TEST		RESULT
§15.209	Radiated Emission	Compliant
§15.215	20dB bandwidth	Compliant
§15.207 Conducted Emission		Compliant



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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA			

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2019	Jun.11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2019	Jun.11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun.12, 2019	Jun.11, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019





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7. RADIATED EMISSION

7.1TEST LIMIT

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit			
(MHz)	Meters	μ V/m	dB(μV)/m		
0.009 ~ 0.490	300	2400/F(kHz)	GY 2G 2		
0.490 ~ 1.705	30	24000/F(kHz)			
1.705 ~ 30	30	30	0		
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)			

Remark:

- (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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7.2. MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

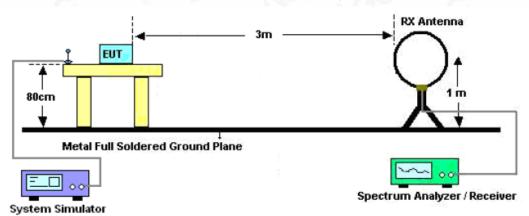
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



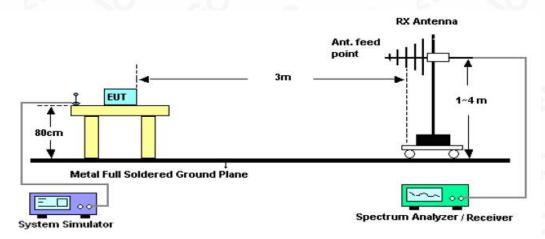


7.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz







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7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

	Frequency MHz	Polarization	Reading dB(uV) PK	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) PK	Margin dB	Pass/Fail
Ī	0.1335	Face	45.25	10.40	55.65	105.09	-49.44	Pass
Ī	0.1335	Side	35.18	10.40	45.58	105.09	-59.51	Pass

Note 1: No other emissions found between lowest internal used/generated frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.

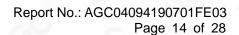
Note 2: Level(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Margin=Level-Limit

Limit(dBuV/m)=20log(2400/F(kHz))+40log(300/3)=105.09 dBuV/m.







RADIATED EMISSION 30MHz-1GHz

EUT:	Aluminum 10W wireless charger	Model Name. :	F001.592
Temperature:	23℃	Relative Humidity:	58%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 1	Polarization :	Horizontal

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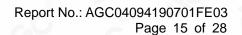
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		93.0500	16.35	15.29	31.64	43.50	-11.86	peak			
2		130.2332	18.38	18.61	36.99	43.50	-6.51	peak			
3	*	167.4166	22.03	18.43	40.46	43.50	-3.04	peak			
4		222.3833	14.07	17.41	31.48	46.00	-14.52	peak			
5		374.3500	10.85	22.08	32.93	46.00	-13.07	peak			
6		945.0333	2.12	32.09	34.21	46.00	-11.79	peak			

RESULT: PASS



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EUT:	Aluminum 10W wireless charger	Model Name. :	F001.592
Temperature:	23 ℃	Relative Humidity:	58%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 1	Polarization :	Vertical

							Limit: Margin:	_
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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	İ	30.1333	17.67	18.17	35.84	40.00	-4.16	QP			
2	İ	43.3333	15.44	19.97	35.41	40.00	-4.59	QP			
3	*	130.2332	21.03	18.61	39.64	43.50	-3.86	peak			
4		211.0667	17.55	16.71	34.26	43.50	-9.24	peak			
5		338.7833	10.02	20.83	30.85	46.00	-15.15	peak			
6		964.4333	2.92	32.25	35.17	54.00	-18.83	peak			

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

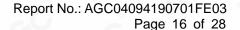
The "Factor" value can be calculated automatically by software of measurement system.



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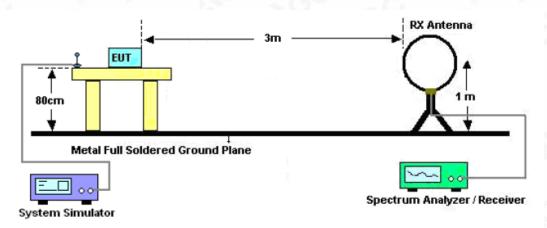


8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2, Set the EUT Work on operation frequency.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

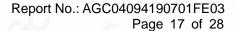
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





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8.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH	0	<0°C	-C		0	
TEST MODULATION	FSK	@		10	\ G	9	- 0

Test Data (Hz)		Criteria
Operate Channel	943	PASS

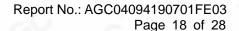
TEST PLOT OF BANDWIDTH





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9. FCC LINE CONDUCTED EMISSION TEST

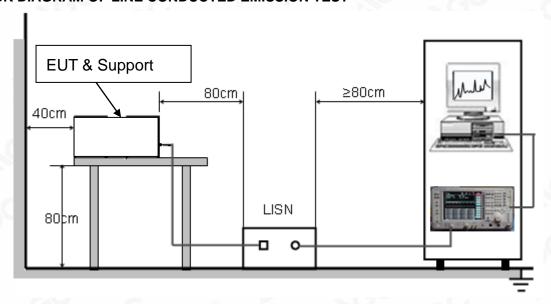
9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	56	46					
5MHz~30MHz	60	50					

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

9.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST







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9.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

9.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



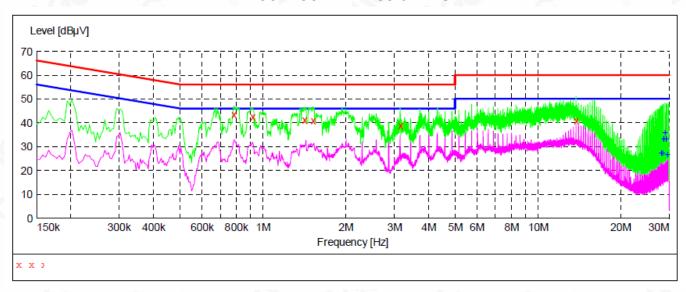
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9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.782000 0.914000 1.410000 1.518000 3.154000	43.50 42.60 41.30 41.10 38.80	10.7 11.2 11.5 11.5	56 56 56 56	12.5 13.4 14.7 14.9 17.2	QP QP QP QP QP	L1 L1 L1 L1 L1
13.762000	40.90	12.1	60	19.1	QP	L1

MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
28.110000	27.50	12.8	50	22.5	AV	L1
28.394000	27.40	12.8	50	22.6	AV	L1
28.690000	33.50	12.8	50	16.5	AV	L1
28.978000	36.10	12.8	50	13.9	AV	L1
29.258000	33.20	12.8	50	16.8	AV	L1
29.538000	27.00	12.8	50	23.0	AV	L1

RESULT: PASS



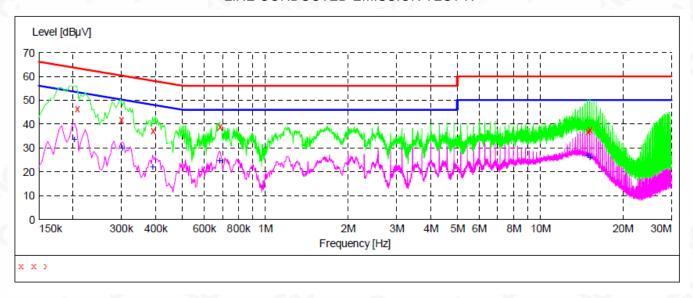
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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.206000	46.50	10.9	63	16.9	QP	N
0.298000	42.10	10.9	60	18.2	QP	N
0.390000	37.20	10.4	58	20.9	QP	N
0.682000	38.80	10.4	56	17.2	QP	N
14.850000	37.00	12.1	60	23.0	QP	N
15.142000	37.50	12.2	60	22.5	QP	N

MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.202000	33.80	10.9	54	19.7	AV	N
0.302000	30.20	10.9	50	20.0	AV	N
0.390000	22.40	10.4	48	25.7	AV	N
0.682000	24.90	10.4	46	21.1	AV	N
14.850000	27.20	12.1	50	22.8	AV	N
15.134000	26.20	12.2	50	23.8	AV	N

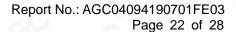
RESULT: PASS



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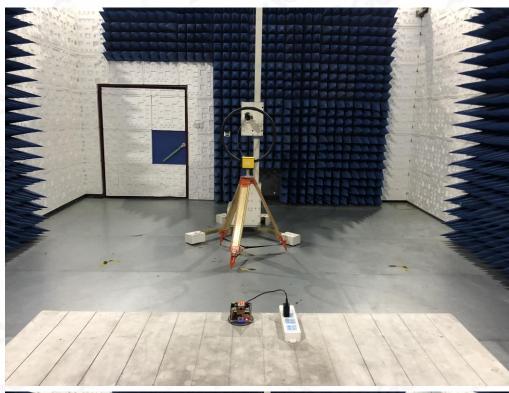
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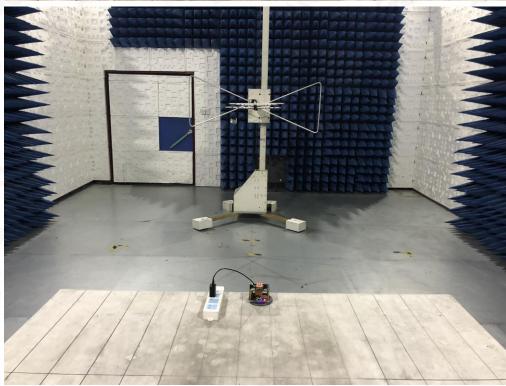




APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ

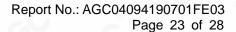






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FCC LINE CONDUCTED EMISSION TEST SETUP





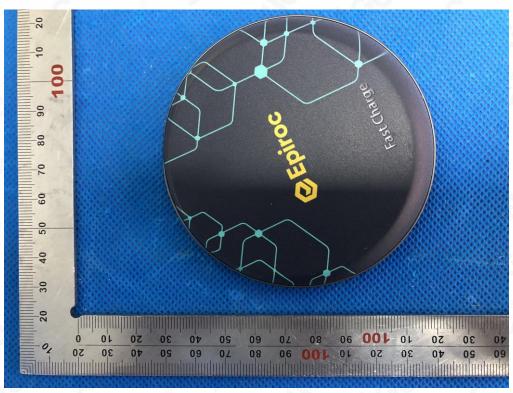
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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT





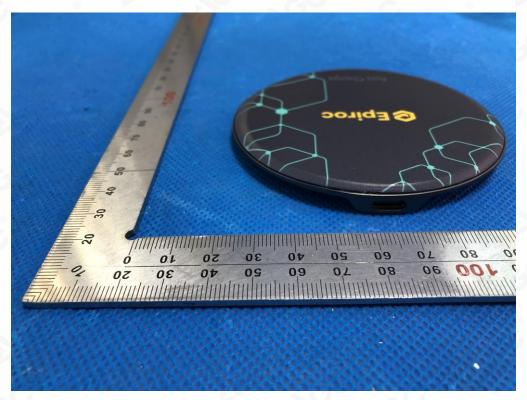
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

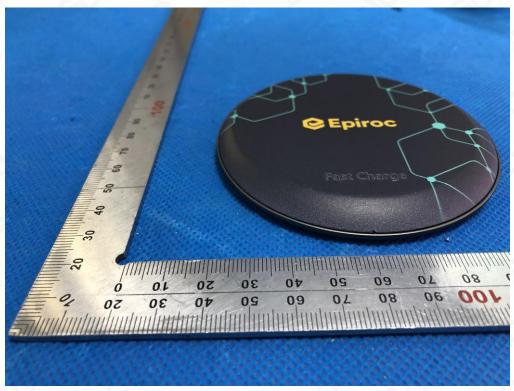
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118



FRONT VIEW OF EUT



BACK VIEW OF EUT



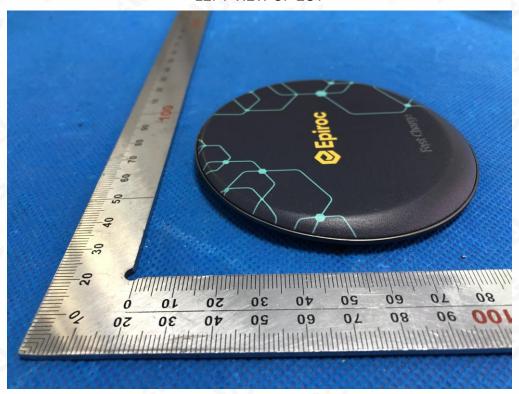


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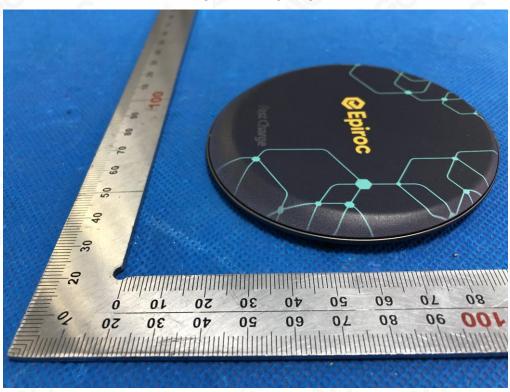
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



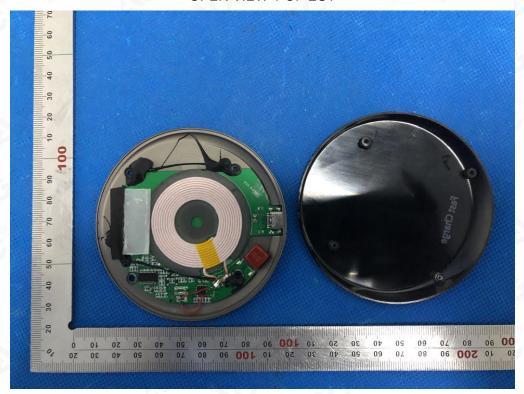


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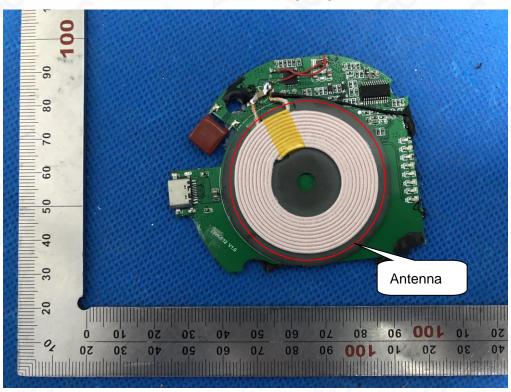
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,



OPEN VIEW-1 OF EUT



INTERNAL VIEW-1 OF EUT



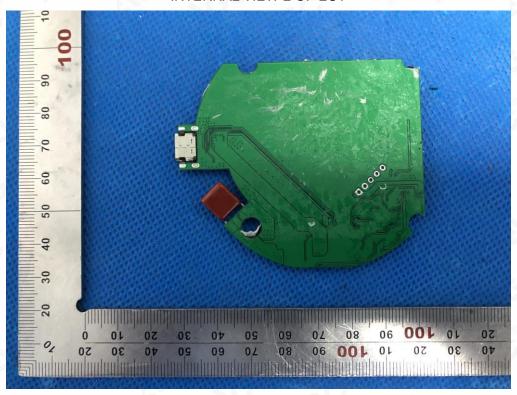


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INTERNAL VIEW-2 OF EUT



----END OF REPORT----



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