

# RED-Health Test Report

For

Wireless charger Model No.

Prepared For :

Address :

Prepared For : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F, Building D, Sogood Science and Technology Park, Sanwei

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# TEST REPORT

Applicant :

Manufacturer :

Product Name : Wireless charger

Model No. :

Trade Mark : N.A.

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

Output: 5W

Test Standard(s) : EN 62311: 2008

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 ETSI EN 62311:2008 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.

Date of Test	002		Nov. 21~Dec	2. 07, 2018		
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# 1. GENERAL INFORMATION

# 1.1. Client Information

Applicant	:	91					(Or	" Upo	100
Address	:								r sek
Manufacturer	:								nbol
Address	:	į.							PZ
Factory	:								Ļ
Address	:								No.K
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## 1.2. Description of Device (EUT)

Product Name	: Wireless charger
Model No.	i i i i i i i i i i i i i i i i i i i
Trade Mark	: N.A.
Test Power Supply	: AC 230V, 50Hz for adapter
Test Sample No.	: S1(Normal Sample), S2(Engineering Sample)
	Operation Frequency: 111-205KHz
Product	Modulation Type: MSK
Description	Antenna Type: Inductive loop coil Antenna
10	Antenna Gain(Peak): 0 dBi

**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: Samsung
		M/N: ETA-U90CBC
		S/N: RT6FB17ZS/B-E
		Input: 100-240V~ 50-60Hz, 0.35A
		Output: DC 5V, 2A
		K Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Mobile Phone	:	Samsung



## 1.4. Test Equipment List

36	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Þ	1	Magnetic field meter	NARDA	ELT-400	423623	Nov.17, 2017	3 Year

## 1.5. 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**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



# 2. GENERAL PRODUCT INFORMATION

#### 2.1. Basic Restriction

The essential requirements of Directive 99/519/EC in the article 3.1(a) and the limits must be taken from Council Recommendation 99/519/EC for General Population or from the ICNIRP Guidelines for Occupational Exposure. EN 50371:2002 Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields. The average power of EUT is less than 20mW then comply with basic restriction (1999/519/EC) without test.

## 2.2. Table for Filed Antenna

No.	Antenna Type	Gain (dBi)
1Anbo	Inductive loop coil Antenna	0



# 3.TEST RESULT

## **3.1. Limit**

Council Recommendation 99/519/EC Annex III

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density Seq (W/m2)
0-1Hz	-	3,2×104	4×104	-
1-8Hz	1000	3,2×104/f2	4×104/f2	_
8-25Hz	1000	4000/f	5000/f	-
0.025Hz-0,8kHz	250/f	4/f	5/f6,25	
0,8-3kHz	250/f	5	6,25	k notek An
3-150kHz	87	5	6,25	Arr stek
0,15-1MHz	87	0.73/f	0,92/f	oten Pupp
1-10MHz	87/f1/2	0.73/f	0,92/f	- 0
10-400MHz	28	0.073	0,092	2
400-2000MHz	1,375 f1/2	0,0037 f1/2	0,0046f1/2	f/200
2-300GHz	61	0,16	0,20	10

#### Note:

- (1)As indicated in the frequency range column.
- (2) For frequencies between 100kHz and 10GHz, Seq, E2, H2 and B2 are to be averaged over any six-minute period.
- (3)For frequencies exceeding 10GHz, Seq, E2, H2 and B2 are to be averaged over any 68/.1.05-minute period (.in GHz).
- (4)No E-field value is provided for frequencies <1Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 20kV/m. Spark discharges causing stress or annoyance should be avoided.



# 3.2. Test results

Temperature:	25° C	Relative Humidity:	55 %
Pressure:	1012 hPa	Test Voltage:	AC 230V, 50Hz for adapter

## E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

VII.	Anboten	Probe Measure R	Limits	D14	
Test Position	Full Load	Zero Charge	Intermediate Charge	(V/m)	Result
A A A A A A A A A A A A A A A A A A A	4.14	4.15	5.44	87	Pass
otek B nbok	3.33	3.23	3.15	87	Pass
inde C	3.15	2.56	3.37	87	Pass
D.K	1.52	1.43	2.53	87	Pass
Entek	1.17	1.32	2.42	87	Pass
F botek	1.32	1.41	2.01	87	Pass

## H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Anboten	Anbo	H-Fil	ed Strength	Measure R	esult	po	_10		
Test	Full Load		Zero C	Zero Charge		ate Charge	Limits (A/m)	Result	
Position	uТ	A/m	ANOUT T	A/m	uT	A/m N	(10111)	notek k.	
nbote <sup>K</sup> A M	0.065	0.052	0.054	0.043	0.187	0.150	5	Pass	
Anb Bek	0.077	0.062	0.034	0.027	0.198	0.158	Anbote 5	Pass	
Cotok	0.012	0.010	0.064	0.051	0.075	0.060	5	Pass	
Danbotek	0.042	0.034	0.063	0.050	0.123	0.098	5 Ambox	Pass	
tek E Anbo	0.026	0.021	0.041	0.033	0.063	0.050	5 And	Pass	
ibote <sup>K</sup> F Ar	0.176	0.141	0.165	0.132	0.145	0.116	nbote 5	Pass	

Note: A/m = uT / 1.25

----- End of Report -----