

FCC TEST REPORT

For

Sariana LLC

Wireless Charger V2

Model No.: ST-IWCBM, ST-IWCBG, ST-IWCBS

Prepared For : Sariana LLC

Address : 7365 Mission Gorge Rd, Suite G, San Diego, CA 92120, USA

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : Sariana LLC

Manufacturer : Sariana LLC

Product Name : Wireless Charger V2

Model No. : ST-IWCBM, ST-IWCBG, ST-IWCBS

Trade Mark : S \(\Lambda\) T E C H I

Rating(s) : Input: DC 5V, 2A / 9V, 2A

Output: 5W/7.5W/10W

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.

Prepared by

(Engineer / Tangcy Tang)

Reviewer

(Supervisor / Snowy Meng)

Approved & Authorized Signer

(Manager / Sally Zhang)



1. General Information

1.1. Client Information

Applicant	:	Sariana LLC
Address	:	7365 Mission Gorge Rd, Suite G, San Diego, CA 92120, USA
Manufacturer	:	Sariana LLC
Address	:	7365 Mission Gorge Rd, Suite G, San Diego, CA 92120, USA

1.2. Description of Device (EUT)

Product Name	:	Wireless Charger V2	ek abotek Anbotek Anbotek Anb					
Model No.	••	ST-IWCBM, ST-IWCBG, ST-IWC	VCBS except colour , so we prepare "ST-IWCBM" for test					
Trade Mark	:	SATECH	I botek Anbotek Anbotek Anbotek					
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter						
Test Sample No.	:	S1(Normal Sample), S2(Enginee	ring Sample)					
		Operation Frequency:	127.7KHz					
Product		Modulation Type:	FSK Anbotek Anbotek Anbotek					
Description	:	Antenna Type:	Inductive loop coil Antenna					
		Antenna Gain(Peak):	0 dBi					
- 104		Arriva Agricultura	0 1 1 2 2 0 10 10 10 1					

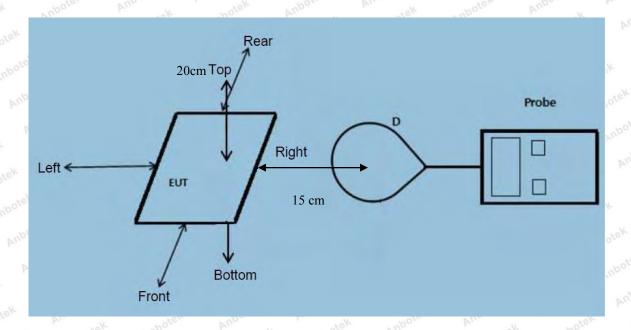
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

2	Adapter	:	Input: 100-240V 50-60Hz 0.7A Output: 3.6-6.5V=== 3A/ 6.5-9V=== 2A/ 9-12V=== 1.5A	rek Vu
			Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek An	iposek K
	Mobile Phone	:	Samsung	Anbote



1.4. Description Of 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



1.5. Test Equipment List

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

1.6. 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. 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 1 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	Ì	1	f/1500	30
1500-100,000	1	I	1.0	30

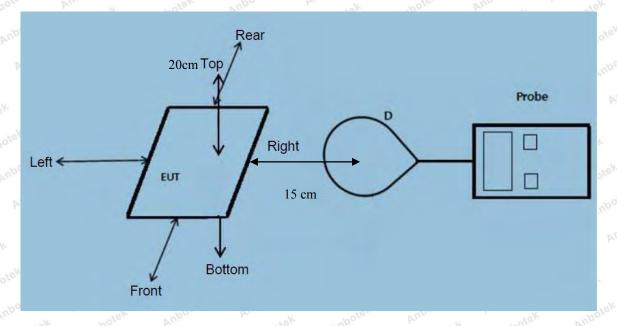
F=frequency in MHz

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.)

Remark;

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

4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

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 127.7 KHz
 - 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 10W.
 - 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

E Ligit	a buengui at	15 cm sum	ounding ti	ic Lor and	200111 000	ve the top st	arrace or the	LUI
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
-	Range	Position	Position	Position	Position	Position	Limit No	Test
power	(KHz)	Anb c A^{k}	An B	C	V D Anbo	E Anbe	(V/m)	(V/m)
Anboro	And	Anbotek	Aupor	rek vu	otek A	ipote. A	hotek	Anbotek
1%	127.7	0.35	0.24	0.29	0.42	0.46	307	614
K Anbote	Anbo	ek Ant	otek P.	pore	Anv	Anbotek	Anbountek	Ar.
olek Anb	ole Aug	botek	Inpotek	Anbo. otek	Anbotek	Anboter	Anbe no	lek bi
50%	127.7	1.47	1.25	1.96	1.44	1.35	307	614
anbotek	Anboten	Anber	Anbotek	Anbote	k 1.44 Anbo	botek Ar	botek A	'por otek
Anbotek	Anborek	Antote	Anbo	iek Yup	or E	Anbotek	Anboten	Anbonotek
99%	127.7	2.42	2.47	2.62	2.25	2.91	307	614
Yek Pir.	kek Anbot	er Aup	-otek	anbotek	Anbore	Ann	Anbotek	Anbo
otek k	abotek An	pote. b	no	Anbotek	Anbor	0.24	ek Anbo	ier Vu
Stand-by	127.7	0.36	0.79	0.83	0.81	0.24	307	614
Anbore	Antabotek	Anbotek	Anbo	SK VUD	otek An	bote. Vu	hotek	Anbotek



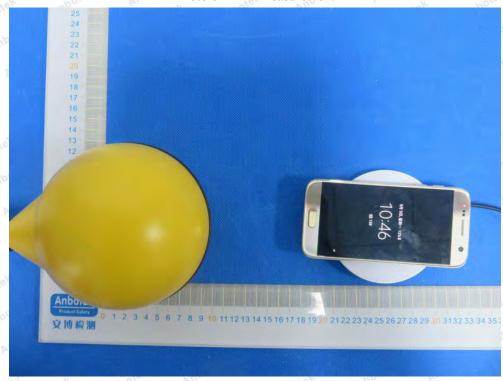
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

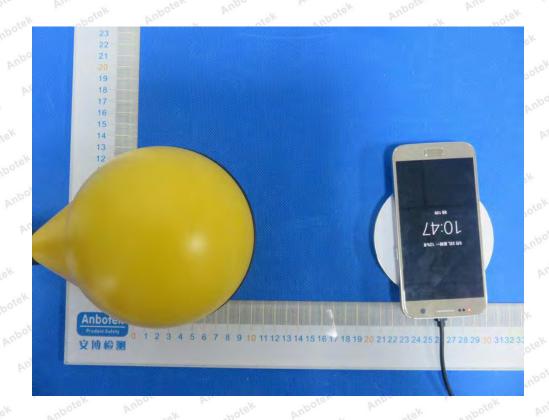
100			8			1.00	D21	- 61
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A A	Aup B	Am C otek	D _{Anbote}	E	(A/m)	(A/m)
Anbolo.	hotek.	Anbotek	Anbor	k by	ek Anh	ofer Yup	notek s	nbotek
1%	127.7	0.031	0.042	0.050	0.037	0.069	0.815	1.63
Anbotek	4 Anu sotel	Anbot	ek Anb	or M	abotek	Anbotek	VII.	r whole
K Anbote	V. Vun	stek An	potek p	iupor rek	A. abotek	Anbotek	Anbox	e ant
50%	127.7	0.14	0.18	0.23	0.27	0.31	0.815	1.63
abotek p	nbote. A	nb wotek	Anbotek	Anbotek	ak ab	otek Anbi	stek Anb	stek
Anbotek	Anbotek	Anbo	Anbotel	Anbo	otek b	abotek p	upoten k	nbo
99%	127.7	0.4	0.57	0.62	0.48	0.62	0.815	1.63
e abotel	Anbote,	Anbot	otek	abotek	D.L.	All hotek	Anbotek	Anbo
tek Anbr	tek Anbo	re. Ani	unbotek	Anbotek	Anboten	An	Anbote	Anb
Stand-by	127.7	0.40	0.35	0.51	0.34	0.55	0.815	1.63
upo. V	hotek	Anboten	Anbo	hoto	K Anbr	kek C.E. Anbe	-otek A	botek



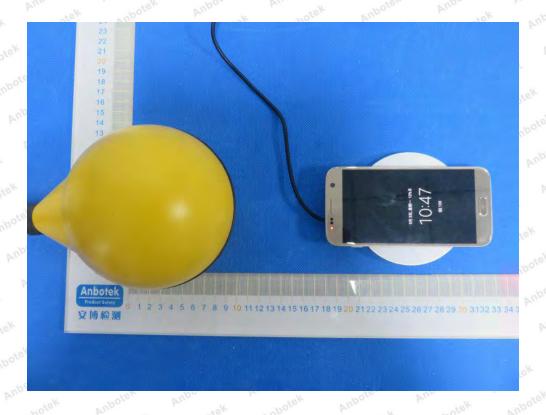
APPENDIX I -- TEST SETUP PHOTOGRAPH





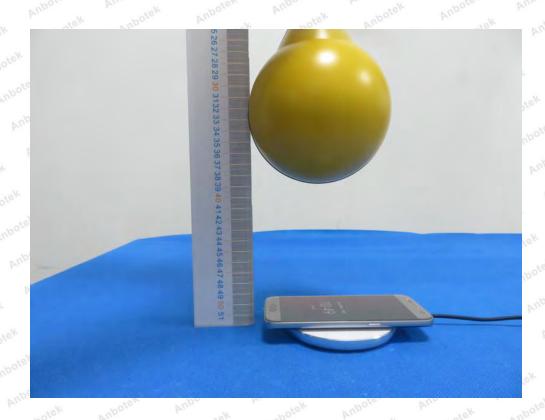












----- End of Report -----