

TEST REPORT

Applicant: Shenzhen Savori Intelligent System Technology Co., Ltd.

Address of Applicant: Floor3,Building1,Guanfeng Industrial Park,Jiuwei Village,
Xixiang Street,Baoan,Shenzhen,China

Manufacturer/Factory: Shenzhen Savori Intelligent System Technology Co., Ltd.

**Address of
Manufacturer/Factory:** Floor3,Building1,Guanfeng Industrial Park,Jiuwei Village,
Xixiang Street,Baoan,Shenzhen,China

Equipment Under Test (EUT)

Product Name: Wireless Charger

Model No.: W6, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, SP1, SP2, SP3,
SP4, SP5, SP6, SC1, SC2, SC3, SC4, SC5, SC6, SF1, SF2,
SF3, SF4, SF5, SF6, SF7, SF8

Trade mark: N/A

FCC ID: 2APUF-W6

Applicable standards: FCC CFR Title 47 Part 15 Subpart C

Date of sample receipt: May 07, 2018

Date of Test: May 07, 2018-May 16, 2018

Date of report issued: May 16, 2018

Test Result : PASS *

Authorized Signature:

A circular blue stamp with the text "GLOBAL UNITED TECHNOLOGY SERVICES CO., LTD." around the perimeter and "GTS GLOBAL TESTING" in the center. A handwritten signature in black ink is written across the stamp.

Robinson Lo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



Version

Version No.	Date	Description
<i>00</i>	<i>May 16, 2018</i>	<i>Original</i>

Prepared By:

Date:

May 07, 2018

Project Engineer

Check By:

Date:

May 07, 2018

Reviewer

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1. Test Certification

Product:	Wireless Charger
Model No.:	W6
Additional Model No.:	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, SP1, SP2, SP3, SP4, SP5, SP6, SC1, SC2, SC3, SC4, SC5, SC6, SF1, SF2, SF3, SF4, SF5, SF6, SF7, SF8
<i>Note: All models are the same except for the model name and colour, this report performs the model W6.</i>	
Trade Mark:	N/A
Applicant:	Shenzhen Savori Intelligent System Technology Co., Ltd.
Address:	Floor3,Building1,Guanfeng Industrial Park,Jiuwei Village, Xixiang Street,Baoan,Shenzhen,China
Manufacturer:	Shenzhen Savori Intelligent System Technology Co., Ltd.
Address:	Floor3,Building1,Guanfeng Industrial Park,Jiuwei Village, Xixiang Street,Baoan,Shenzhen,China
Applicable Standards:	FCC Rules and Regulations KDB680106

The above equipment has been tested by Global United Technology Services Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

2. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1) & KDB680106	PASS

Note:

1. *PASS: Test item meets the requirement.*
2. *Fail: Test item does not meet the requirement.*
3. *N/A: Test case does not apply to the test object.*
4. *The test result judgment is decided by the limit of test standard.*

3. EUT Description

Product:	Wireless Charger
Model No.:	W6
Additional Model No.:	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, SP1, SP2, SP3, SP4, SP5, SP6, SC1, SC2, SC3, SC4, SC5, SC6, SF1, SF2, SF3, SF4, SF5, SF6, SF7, SF8
<i>Note: All models are the same except for the model name and colour, this report performs the model W6.</i>	
Trade Mark:	N/A
Number of Channel	12 channels
Operation Frequency:	126-148KHz
Modulation Technology:	PFM
Antenna Type:	Coil Antenna
Antenna Gain:	10dBi

Conditions requirement	Answers
Power transfer frequency is less than 1 MHz	After measuring the product the transfer frequency is 110-200KHz
Output power from each primary coil is less than 15 watts	After measuring the product the each primary coil power is 4.5 watts
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 wireless charger has two primary coils, the primary coils was in the charger, the secondary coils in the mobile phone.
Client device is inserted in or placed directly in contact with the transmitter	Client device is placed directly in contact with the transmitter
Aggregate leakage fields at 15 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	After measuring the product the Max E-Filed Strength is 1.21V/m Far less than 50% of the MPE limit.

Operation Frequency each of channel

Channel	Frequency (KHz)						
1	126	6	136	11	146	16	
2	128	7	138	12	148	17	
3	130	8	140	13		18	
4	132	9	142	14		19	
5	134	10	144	15		20	

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Full load.
<p>The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p>	

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
DC source	/	/	/	/
Mobilephone	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

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

- Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.2. Location

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.3. Measurement Uncertainty

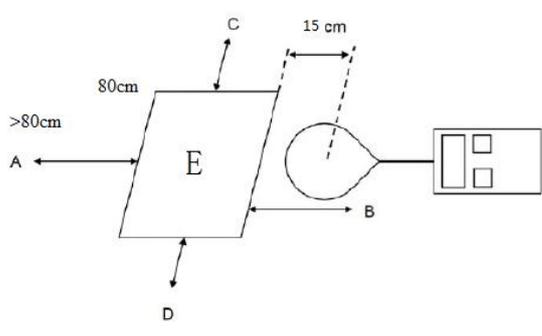
The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. RF EXPOSURE TEST

6.1.1. Test Specification

Test Requirement:	FCC Rules and Regulations KDB680106
Test Method:	§1.1307(b)(1) & KDB680106
Limits:	According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.
Test Setup:	
Test Mode:	Charging + Transmitting Mode
Test Procedure:	<ol style="list-style-type: none"> 1. The RF exposure test was performed on 360 degree turn table in anechoic chamber. 2. The measurement probe was placed at test distance (10cm) which is between the edge of the charger and the geometric centre of probe. 3. The turn table was rotated 360d degree to search of highest strength. 4. The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed. 5. The EUT were measured according to the dictates of KDB 680106D01v03.
Test Result:	PASS

6.1.2. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Exposure Level Tester	narda	ELT-400	N-0231	2017.09.29	1 Year
2.	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M0675	2017.09.29	1 Year

6.1.3. Test data

For Full load mode:

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.148	1.20	1.16	1.18	1.17	1.20	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (V/m)
0.148	0.21	0.16	0.19	0.16	0.19	0.489	1.63

For half load mode:

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.138	1.21	1.17	1.16	1.19	1.21	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (V/m)
0.138	0.20	0.17	0.17	0.18	0.18	0.489	1.63

For No load mode:

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.126	1.18	1.14	1.16	1.15	1.19	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (V/m)
0.126	0.20	0.21	0.18	0.17	0.18	0.489	1.63

Appendix A: Photographs of Test Setup

Product: Wireless Charger

Model: W6

For Full load mode



For No load mode



Appendix B: Photographs of EUT

Refer to test report GTS201805000210F01

*******END OF REPORT*******