

TEST REPORT

of

FCC CFR 47 part1, 1.1307(b), 1.1310

FCC ID: 2AY4GSTC-IP11

Equipment Under Test : STATIC Power bank
Model Name : STC-IP11
Variant Model Name(s) : STC-IP11P
Applicant : STATIC
Manufacturer : STATIC
Date of Receipt : 2021.02.02
Date of Test(s) : 2021.02.22 ~ 2021.04.02
Date of Issue : 2021.04.02

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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Tested by:



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Report Number: F690501-RF-RTL001864-1

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
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- Designation Number: KR0150

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1.2. Details of Applicant

Applicant : STATIC

Address : #506, 205 Gasan Digital 1-Ro, Geumcheon-gu, Seoul, South Korea, 08501

Contact Person : Ha, Jong-min

Phone No. : +82 10 6665 2685

1.3. Details of Manufacturer

Company : Same as applicant

Address : Same as applicant

1.4. Description of EUT

Kind of Product	STATIC Power bank
Model Name	STC-IP11
Variant Model Name	STC-IP11P
Serial Number	STC11BK00001
Power Supply	DC 3.7 V
Operation Mode	5 W, 10 W
Frequency Range	110.01 kHz ~ 148 kHz
Antenna Type	Loop Coil Antenna
Antenna Serial Number	STCA11000001
H/W Version	Rev.1.1
S/W Version	Rev.1.5

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Electric and Magnetic field Probe analyzer	NARDA	EHP 200AC	170WX91017	Nov. 16, 2020	Annual	Nov. 16, 2021
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.

► Support Equipment

Description	Manufacturer	Model	FCC ID
iPhone X	Apple Inc.	A1901	BCG-E3175A
A type USB Cable	Apple Inc.	A1856	-
TRAVEL ADAPTER	DongGuan Yahui Electronic Technology Co., Ltd	SPE-N4TU210	-

Note;

The above table were provided by the customer and may affect the validity of the test results.
We are responsible for all the information of this report except for the above table provided by the customer.

1.6. Worst Case of Test Configurations

Charging mode with client device	Mode		Description
Model: A1901 FCC ID: BCG-E3175A	5 W	10 W	1 % of battery 50 % of battery 99 % of battery

Note;

- EUT was investigated with client device under normal charging condition as above then worst value was only reported.

1.7. Description of Variant Models

Model name		Description
Basic model	STC-IP11	- Basic model
Variant model	STC-IP11P	- Same to basic model except below - Difference in size

1.8. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Electric Field	$\pm 19.78 \%$
Magnetic Field	$\pm 13.66 \%$

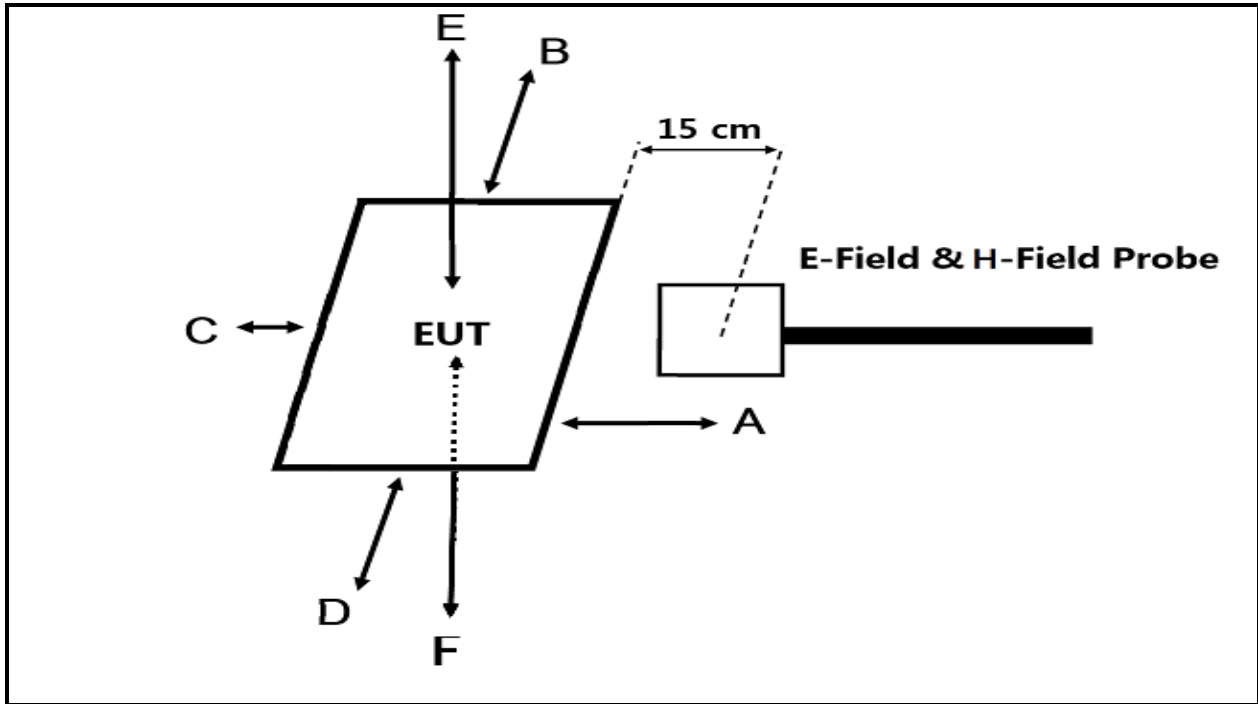
Uncertainty figures are valid to a confidence level of 95 %.

1.9. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL001864	2021.03.29	Initial
1	F690501-RF-RTL001864-1	2021.04.02	Added the H-field test results for each distance.

2. Test Result

2.1. Test Setup



2.2. Measurement procedure

- The RF exposure test was performed in anechoic chamber.
- The measurement probe was placed at test distance (15 cm) which is between the edge of the charger and the geometric center of probe.
- 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.
- The EUT was measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01.

2.3. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310.

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

TABLE 1 - LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
(A) Limits for Occupational /Control Exposures				
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 / Uncontrol Exposures				
<u>0.3-1.34</u>	<u>614</u>	<u>1.63</u>	*(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/1 500	30
1 500-100 000			1.0	30

f = frequency in MHz

* = Plane wave equivalent power density

2.4. E and H field strength

Ambient temperature : $(23 \pm 1) ^\circ\text{C}$
 Relative humidity : 47 % R.H.

2.4.1. E-Field Strength at from the edges surrounding the EUT

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Frequency Range (kHz)	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Probe Position F (V/m)	Limits (V/m)
110.01 ~ 148	0.389	0.384	0.388	0.382	0.381	0.389	614

Test Condition: 10 W Operating mode with client device (1 % battery status of client device)

Frequency Range (kHz)	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Probe Position F (V/m)	Limits (V/m)
110.01 ~ 148	0.389	0.380	0.380	0.419	0.458	<u>0.560</u>	614

2.4.2. H-Field Strength at from the edges surrounding the EUT

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Frequency Range (kHz)	Distance (cm)	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Probe Position F (A/m)	Limits (A/m)
110.01 ~ 148	15	0.164	0.16	0.164	0.162	0.166	0.168	1.63
	10	0.201	0.166	0.185	0.163	0.168	0.232	
	8	0.331	0.220	0.244	0.171	0.205	0.406	
	6	0.454	0.370	0.398	0.392	0.383	0.811	
	Contact, 4	0.617	0.485	0.506	0.643	0.517	1.280	

Test Condition: 10 W Operating mode with client device (1 % battery status of client device)

Frequency Range (kHz)	Distance (cm)	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Probe Position F (A/m)	Limits (A/m)
110.01 ~ 148	15	0.166	0.158	0.166	0.166	0.161	0.163	1.63
	10	0.262	0.166	0.166	0.168	0.171	0.176	
	8	0.275	0.200	0.453	0.169	0.201	0.575	
	6	0.522	0.520	0.535	0.353	0.281	1.038	
	Contact, 4	0.850	0.652	0.646	1.109	0.462	<u>1.416</u>	

Note;

Because of measurement probe antenna size, minimum separation distance between EUT and probe is 4 cm for H-field.

- End of the Test Report -