

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800031003

Page: 1 of 9

Human Exposure Report

Application No.: FYCR2208000310AT (SGS SZ No.: T52210300033EM)
Applicant: SCX DESIGN
Address of Applicant: 68 bis Boulevard Pereire 75017 Paris, France
Manufacturer: SCX DESIGN
Address of Manufacturer: 68 bis Boulevard Pereire 75017 Paris, France
Equipment Under Test (EUT):
EUT Name: 5W WIRELESS CHARGING STATION WITH LIGHT-UP LOGO
Model No.: CTEK067
FCC ID: 2A2OH-W15-CTEK067
Vendor Name: SCX
Shipment Order No.: DP00045029
PO No.: 5478_SCX
Country of Origin: China
Country of Distribution: US
Standard(s) : 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2022-08-10
Date of Test: 2022-08-18 to 2022-09-01
Date of Issue: 2022-09-06

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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Shenzhen Branch

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Report No.: FYCR220800031003

Page: 2 of 9

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-09-06		Original

Authorized for issue by:			
		<i>Tree Zhan</i>	

		Tree Zhan/Project Engineer	
		<i>Winkey Wang</i>	

		Winkey Wang/Reviewer	



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2 Contents

	Page
1 COVER PAGE	1
2 CONTENTS	3
3 GENERAL INFORMATION	4
3.1 DETAILS OF E.U.T.	4
3.2 DESCRIPTION OF SUPPORT UNITS	4
3.3 TEST LOCATION	4
3.4 TEST FACILITY	5
3.5 DEVIATION FROM STANDARDS	5
3.6 ABNORMALITIES FROM STANDARD CONDITIONS	5
4 EQUIPMENTS USED DURING TEST	6
5 RADIO SPECTRUM MATTER TEST RESULTS	7
5.1 MAGNETIC FIELD STRENGTH	7
5.1.1 E.U.T. Operation	8
5.1.2 Test Setup Diagram	8
5.1.3 Measurement Procedure and Data	9



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3 General Information

3.1 Details of E.U.T.

Power supply:	Input: DC 5V/3A USB-A output: 5V/1A USB-C output : 5V/1A Wireless output: 5W
Cable(s):	Type-C USB cable:80cm unshielded
Operation frequency:	111.8kHz to 146.2kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Mi	MDY-11-EP	REF. No.SEA05M02F
mobile phone	SAMSUNG	Galaxy S9	R58M681WFNB

3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800031003

Page: 5 of 9

3.4 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.5 Deviation from Standards

None

3.6 Abnormalities from Standard Conditions

None



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2024/7/12
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2023-04-01

Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge mode_Keep the EUT charging(5W)



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5 Radio Spectrum Matter Test Results

5.1 Magnetic field strength

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 15cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
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
(ii) Limits for General Population/Uncontrolled 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
300-1,500	/	/	f/1500	<30
1,500-100,000	/	/	1.0	<30

F=frequency in MHz
 *=Plane-wave equivalent power density
 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).



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Report No.: FYCR220800031003

Page: 8 of 9

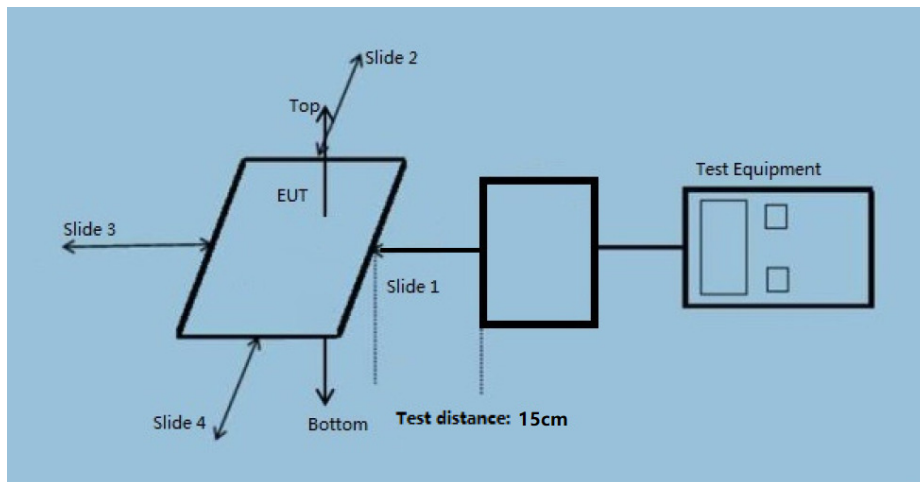
5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

5.1.2 Test Setup Diagram



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Report No.: FYCR220800031003

Page: 9 of 9

5.1.3 Measurement Procedure and Data

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
127 kHz which is the worst case within the operation frequency range	15	Side 1	0.040	0.046	0.054	0.815	0.163
		Side 2	0.029	0.036	0.040		
		Side 3	0.039	0.048	0.053		
		Side 4	0.031	0.037	0.047		
		Top	0.034	0.040	0.051		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
135 kHz which is the worst case within the operation frequency range	15	Side 1	0.050	0.042	0.034	0.815	0.163
		Side 2	0.035	0.030	0.024		
		Side 3	0.048	0.040	0.032		
		Side 4	0.034	0.028	0.022		
		Top	0.047	0.039	0.031		

- End of the Report -



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