

Report No.: GZCR210802089904 Page: 1 of 12 FCC ID: 2A2OH-W1330L1

## **RF EXPOSURE EVALUATION REPORT**

Application No.:	GZCR2108020899AT (SGS SZ No.: T52110270207EM)
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:	SCX Design Base Wireless Charger 10W
Model No.:	W13/32486
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1310
	47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt:	2021-08-04
Date of Evaluation:	2021-08-15 to 2021-08-25
Date of Issue:	2021-09-03
Evaluation Result:	Pass*

\* In the configuration evaluated, the EUT complied with the standards specified above.

ke. Jun

Kobe Jian EMC Laboratory Manager



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		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2021-09-03		Original

Authorized for issue by		
Tested By	CJ Vu	
	Curry Wu/Project Engineer	
Reviewed By	Ridey Liv	
	Ricky Liu/Reviewer	



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#### **Evaluation Summary** 2

#### Radio Spectrum Matter Part

ltem	Standard	Method	Requirement	Result
		KDB 680106 D01		
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	TCB Workshop Presentation November 2019 RF Exposure	CFR 47 Part 1.1310	Pass

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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#### 4 **General Information**

#### 4.1 Details of E.U.T.

Power supply:	Input: 5Vdc/2A, 9Vdc/2A;
	Wireless Output: 5Vdc/1A, 7.5Vdc/1A, 9Vdc/1.12A, 10W
Operation Frequency:	121.2KHz to 154.2KHz
Modulation Type:	Load modulation
Antenna Type:	Loop antenna
Remark:	Tests were conducted in all load modes and the worst case mode was reported in each test item.

#### 4.2 Test modes description:

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	wireless charge mode_Keep the EUT charging(5W)
Pre-scan	04	wireless charge mode_Keep the EUT charging(7.5W)
Final test	05	wireless charge mode_Keep the EUT charging(10W)

#### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
Adapter	XIAOMI	MDY-08	REF. No.SEA05M02F
Mini USB Cable	SANBO	SU-T21	REF. No.SEA07B01
E-loading	SGS	N/A	REF. No.SEA42A00

#### 4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
RF Exposure Evaluation	MF: 0.13dB, EF: 0.4dB



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#### **Equipments Used during Test** 5

RF Exposure					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
743 Compact 3m Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2020-01-07	2022-01-06

General used equipment	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-08	2022-07-07



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#### 5.1 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

#### 5.2 Facility

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

#### • NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### • ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

#### • SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

#### • CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

#### ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

#### FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

#### • ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

#### • VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

#### • CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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#### 5.3 Deviation from Standards

None

5.4 Abnormalities from Standard Conditions None



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## 6 Test Results

#### 6.1 RF Exposure test

Test Requirement:	47 CFR PART 1, Subpart I, Section 1.1310
Measurement Distance:	15cm
Limit:	

According to FCC Part1.1310: 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 Part1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)			
(A) Limits for Occupational/Controlled Exposures							
0.3-3.0	614	1.63	1.63 *(100) 6				
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6			
30-300	61.4	0.163	1.0	6			
300-1500	/	/	f/300	6			
1500-100,000	/	/	5	6			
(B) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	4 614 1.63 *(100)		30				
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30			
30-300	27.5	0.073	0.2	30			
300-1500	/	/	f/1500	30			
1500-100,000	/	/	1.0	30			

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

F=frequency in MHz

检验检测专用章

\*=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).

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

$$S = power density (mW/cm^2)$$

$$P = the net power delivered to the antenna (mW)$$

$$G = gain of the antenna in linear scale$$

$$d = distance between observation point and center of the radiator (cm)$$

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#### 6.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature: Atmospheric Pressure: 1010 mbar 22.8 °C Humidity: 52.7% RH

**EUT** Operation:

This device has been tested with unload, half load and full load and the device has been tested with load at zero charge, intermediate charge, and full charge.



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#### 6.1.2 Measurement Data

Mode 05:

#### The max output power =10W

#### **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		
129 kHz which is the worst case within the operation frequency range	15	Side 1	0.029	0.034	0.041	0.815	0.163
		Side 2	0.027	0.034	0.040		
		Side 3	0.031	0.036	0.043		
		Side 4	0.029	0.035	0.041		
		Тор	0.034	0.042	0.049		

#### **Magnetic Field Emissions**

Operation	Test Distance	Test	Probe Measure Result(A/m)			50 % Limit	10 % Limit
frequency	(cm)	Test Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
137 kHz which is the worst case within the operation frequency range	15	Side 1	0.041	0.035	0.027	0.815	0.163
		Side 2	0.038	0.032	0.025		
		Side 3	0.042	0.035	0.028		
		Side 4	0.039	0.033	0.026		
		Тор	0.047	0.040	0.031		



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#### Photographs- RF exposure Setup photos 7

Refer to Appendix - RF Exposure Setup Photos for GZCR2108020899AT

- End of the Report -



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