

Report No.: SZEM181101031802 Page: 1 of 7

## **Human Exposure Report**

Application No.:	SZEM1811010318CR				
Applicant:	Scosche Industries Inc.				
Address of Applicant:	1550 Pacific Ave Oxnard California 93033 United States				
Manufacturer:	Scosche Industries Inc.				
Address of Manufacturer:	1550 Pacific Ave Oxnard California 93033 United States				
Factory:	Shenzhen Powerqi Technology Co., Ltd.				
Address of Factory:	2nd Floor, A4 Building, Block A, Fangxing Science & Tech. Park, Longgang District, Shenzhen, China				
Equipment Under Test (EUT	):				
EUT Name:	Wireless Fast Charging Pad				
Model No.:	QUSP, QUSPSR, QUSPSR-SP, QUSPXX-XX(XX can be A-Z or 0-9) 🌲				
*	Please refer to section 2.1 of this report which indicates which model was actually tested and which were electrically identical.				
Trade mark:	SCOSCHE				
FCC ID:	IKQQUSP				
Standards:	47 CFR PART 1, Subpart I, Section 1.1310				
Date of Receipt:	2018-12-04				
Date of Test:	2018-12-10 to 2018-12-11				
Date of Issue:	2018-12-26				
Test Result :	Pass*				

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

Keny. KN

Keny Xu EMC Laboratory Manager



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Report No.: SZEM181101031802 Page: 2 of 7

## 1 Contents

			Page
1	С	ONTENTS	2
2	G	ENERAL INFORMATION	3
	2.1	DETAILS OF E.U.T.	3
	2.2 2.3	DESCRIPTION OF SUPPORT UNITS TEST LOCATION	3 4
	2.4	Test Facility	4
	2.5	DEVIATION FROM STANDARDS	5
	2.6	ABNORMALITIES FROM STANDARD CONDITIONS	5
3	E	QUIPMENTS USED DURING TEST	5
4		EST RESULTS	-
	4.1	RF Exposure test	6
	4.	.1.1 E.U.T. Operation	6
	4.	.1.2 Measurement Data	7
5	P	HOTOGRAPHS- RF EXPOSURE SETUP PHOTOS	7



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> Report No.: SZEM181101031802 Page: 3 of 7

#### **General Information** 2

#### 2.1 Details of E.U.T.

Power supply:	AC/DC adapter,
	Model: HQA8
	Input: AC 100-240V, 50/60Hz
	Output: DC 3.6-6.5V, 3.0A; DC 6.5-9V, 2.0A; DC 9-12V, 1.5A
	For wireless charger:
	Input: DC 5V/2A, 9V/1.67A
	Output: 5W/7.5W/10W
Cable:	USB charging line: 150cm, unshielded
Antenna Type:	Inductive Loop Coil Antenna
Modulation Type:	Load Modulation
Operation Frequency:	110.7kHz to 133.3kHz
Remark:	Tests were conducted in all three load modes and the worst case(10W) is
	reported only.

#### **Remark:**

Model No.: QUSP, QUSPSR, QUSPSR-SP, QUSPXX-XX(XX can be A-Z or 0-9)

Only the model QUSP was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on packaging and the color of the product housing.

# 2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	F4GVQ656JC6D
E-charging load provided by client		N/A	5W/10W



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Report No.: SZEM181101031802 Page: 4 of 7

#### 2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

#### 2.4 Test Facility

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

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### · Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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Report No.: SZEM181101031802 Page: 5 of 7

- 2.5 Deviation from Standards None.
- 2.6 Abnormalities from Standard Conditions None.

## 3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Shielding Room	SAEMC	MSR733	SEM001-09	2020-05-09
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2019-02-06



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Report No.: SZEM181101031802 Page: 6 of 7

### 4 Test Results

#### 4.1 RF Exposure test

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

Frequency range Electric field strength Magnetic field strength Power density Averaging time (mW/cm<sup>2</sup>) (minutes) (MHz) (V/m) (A/m) (A) Limits for Occupational/Controlled Exposures 614 6 0.3-3.0 1.63 \*(100) 6 3.0-30 1842/f 4.89/f \*(900/f<sup>2</sup>) 30-300 61.4 0.163 6 1.0 6 300-1500 / 1 f/300 / / 5 6 1500-100,000 (B) 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<sup>2</sup>) 30 30-300 27.5 0.073 0.2 30 300-1500 / f/1500 / 30 1500-100,000 1 1 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).

#### 4.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature:	25.0 °C	Humidity:	52 % RH	Atmospheric F
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ospheric Pressure: 1015 mbar

EUT Operation:

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



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> Report No.: SZEM181101031802 Page: 7 of 7

#### 4.1.2 Measurement Data

Output Voltage=DC 9V; The max output power =10W

#### **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
		Side 1	0.0022	0.815
		Side 2	0.0038	0.815
130.6 kHz	15	Side 3	0.0045	0.815
		Side 4	0.0031	0.815
		Тор	0.0027	0.815

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

#### **Magnetic Field Emissions**

Operation	Test	Test	Probe	50%Limit		
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
		Side 1	0.0025	0.0022	0.0023	0.815
		Side 2	0.0036	0.0036	0.0038	0.815
130.6 kHz		Side 3	0.0043	0.0042	0.0035	0.815
		Side 4	0.0033	0.0036	0.0027	0.815
		Тор	0.0029	0.0024	0.0027	0.815

## 5 Photographs- RF exposure Setup photos

Refer to RF exposure setup.

- End of the Report -



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