



Human Exposure Report

Application No.: SZEM1911019861CR
Applicant: Shenzhen Wentong Electronic Co., Ltd.
Address of Applicant: B8 Building, Baotang Industrial Zone, Fenghuang Street, Guangming District, Shenzhen city, Guangdong, China
Manufacturer: ShenZhen WenTong Electronic Co., Ltd
Address of Manufacturer: B8 Buiding, Baotang Industrial Zone, Fenghuang Street, Guangming District, Shenzhen city, Guangdong, China
Factory: ShenZhen WenTong Electronic Co., Ltd
Address of Factory: B8 Buiding, Baotang Industrial Zone, Fenghuang Street, Guangming District, Shenzhen city, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Wireless Qi Charger
Model No.: FRT01, SCTL 10 A1 ♣
♣ Please refer to section 3.2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: Silvercrest
SILVERCREST
FCC ID: 2AU8V-SCTL10A1
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2019-11-05
Date of Test: 2019-11-07 to 2019-11-09
Date of Issue: 2019-11-18

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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Shenzhen Branch

Report No.: SZEM191101986102
Page: 2 of 9

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-11-18		Original

Authorized for issue by:			
			
		<hr/>	
		Damon Su /Project Engineer	
			
		<hr/>	
		Eric Fu /Reviewer	



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Shenzhen Branch (CMA) Testing Laboratory

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2 Contents

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	5
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	TEST RESULTS	7
5.1	RF EXPOSURE TEST	7
5.1.1	E.U.T. Operation.....	7
6	PHOTOGRAPHS- RF EXPOSURE SETUP	9



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3 General Information

3.1 Details of E.U.T.

Power Supply: Input: 5V/2A, 9V/1.7A
Output: 5W(5V/1A), 10W(9V/1.1A)

Cable: USB cable(Unshielded, 100cm)

Operation Frequency: 117.949-147.596KHz

Modulation Type: Load Modulation

Antenna Type: Loop Antenna

Remark: Tests were conducted in all three load modes and the worst case (DC 9V, 1.1A) is reported only.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
Adapter	Apple	A1357 W010A051	REF. No.SEA0500
iPhone 8	Apple	A1863	F4GVQ656JC6D
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB

Declaration of EUT Family Grouping:

Model No.: FRT01, SCTL 10 A1

Only the model SCTL 10 A1 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No..



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3.3 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.

3.4 Test Facility

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

• **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.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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4 Equipments Used during Test

Item	Equipment	Manufacturer	Model No	Inventory No	Cal Date
1	Shielding Room	SAEMC	MSR733	SEM001-09	2020-06-10
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-03-21



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5 Test Results

5.1 RF Exposure test

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

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)
(A) Limits for Occupational/Controlled 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
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(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 ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52% RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



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5.1.2 Measurement Data

All three load modes were conducted and the worst case(10W) is reported only.

Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.1Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
127 kHz	15	Side 1	0.1063	0.815
		Side 2	0.0294	0.815
		Side 3	0.0798	0.815
		Side 4	0.0507	0.815
		Top	0.0812	0.815

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

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
127 kHz	15	Side 1	0.1184	0.1045	0.1008	0.815
		Side 2	0.0419	0.0298	0.0255	0.815
		Side 3	0.0928	0.0776	0.0729	0.815
		Side 4	0.0626	0.0485	0.0436	0.815
		Top	0.0944	0.0821	0.0772	0.815



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6 Photographs- RF exposure setup

Refer to RF Exposure Setup Photos.

- End of the Report -

