

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180700642702

Fax: +86 (0) 755 2671 0594 Page: 1 of 16

TEST REPORT

Application No.: SZEM1807006427CR

Applicant: Incipio, LLC

Address of Applicant: 6001 Oak Canyon, Irvine, California, United States

Manufacturer: SHENZHEN TOPBAND CO., LTD

Address of Manufacturer: Topband building, Liyuan industrial park, shiyan town, Bao'an district,

Shenzhen, China.

Factory: SHENZHEN TOPBAND CO., LTD

Address of Factory: Topband building, Liyuan industrial park, shiyan town, Bao'an district,

Shenzhen, China.

Equipment Under Test (EUT):

EUT Name: Qi Wireless Charging Powerbank 6000mAh

Model No.: TLA-101-WHT, TLA-101-BLK &

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AAWX-TLA101

Trade mark: Tesla

Standard(s): 47 CFR Part 18

Date of Receipt: 2018-07-19

Date of Test: 2018-07-23 to 2018-07-26

Date of Issue: 2018-07-31

Test Result: Pass*



EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record							
Version Chapter Date Modifier Remai								
01		2018-07-31		Original				

Authorized for issue by:		
	Peter. Gong	
	Peter Geng /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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2 Test Summary

Radio Spectrum Matter Part								
Item	Standard	Method	Requirement	Result				
Conducted disturbance	47 CFR Part 18	FCC MP-5	Part 18.307	Pass				
Radiated emission	47 CFR Part 18	FCC MP-5	Part 18.305	Pass				

Remark:

Model No.: TLA-101-WHT, TLA-101-BLK

Only the model TLA-101-WHT 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., color and decorations.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC 5.0V/2A		
	Output: DC 5.0V/1.5A		
	wireless output: 5W		
Cable:	USB charging line: 30cm, unshielded		
Operation frequency:	127.24-172.28 kHz		
Modulation type:	Load modulation		
Antenna type:	Inductive Loop Coil Antenna		

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Adapter	Apple	A1357 W010A051	REF. No.SEA0500	
iPhone 8	Apple	A1863	F4GVQ656JC6D	

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	DE Dadiated news	± 4.5dB (below 1GHz)
/	RF Radiated power	± 4.8dB (above 1GHz)
0	Dedicted Couriers emission test	± 4.5dB (Below 1GHz)
8	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
9	Temperature test	± 1 ℃
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%



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4.4 Test Location

All tests were performed at:

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

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.

4.5 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.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted disturbance								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09			
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11			
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26			
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01			
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01			

Radiated emission						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11	
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018-04-02	2019-04-01	
Trilog-Broadband Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-01-26	2019-01-25	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07		



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6 Radio Spectrum Matter Test Results

6.1 Conducted disturbance

Test Requirement Part 18.307
Test Method: FCC MP-5

Limit:

	Conducte	Conducted limit (dBµV)		
Frequency of emission (MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

^{*}Decreases with the logarithm of the frequency.

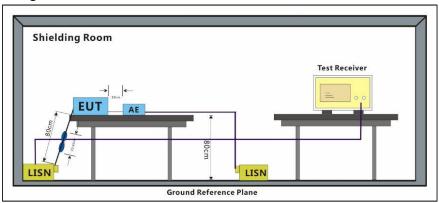
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C Humidity: 48.1 % RH Atmospheric Pressure: 1005 mbar

Test mode b:Wireless+Charging_Keep the EUT pairing with other devices and Charging

6.1.2 Test Setup Diagram



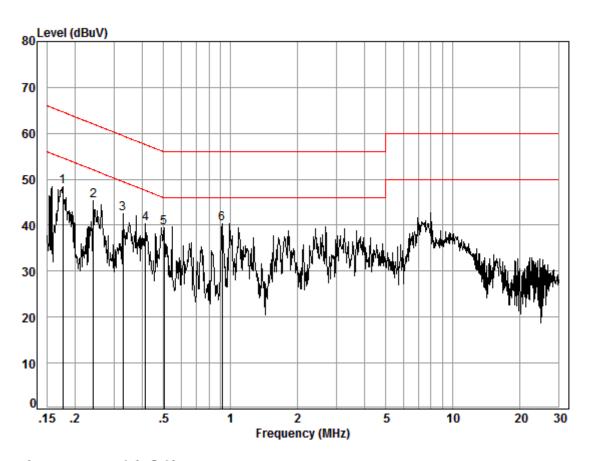
6.1.3 Measurement Procedure and Data



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Mode:b; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 06427CR

Test mode: b

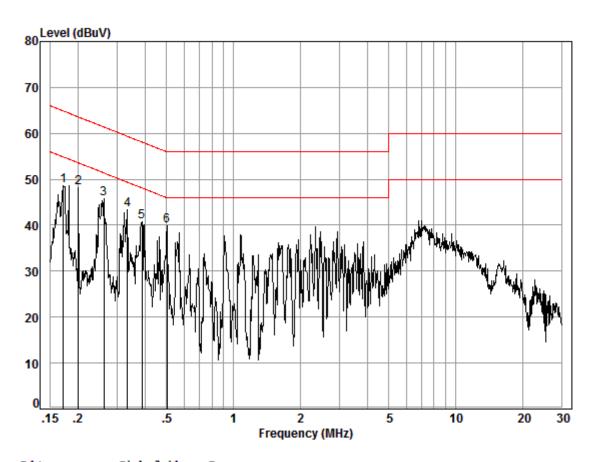
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
_								
1	0.18	0.03	9.52	38.82	48.3/	54.68	-6.31	Peak
2	0.24	0.03	9.51	35.75	45.29	52.04	-6.75	Peak
3	0.33	0.03	9.50	32.93	42.46	49.49	-7.03	Peak
4	0.41	0.04	9.49	30.76	40.29	47.55	-7.26	Peak
5	0.50	0.04	9.49	30.01	39.54	46.00	-6.46	Peak
6	0.92	0.08	9.49	30.77	40.34	46.00	-5.66	Peak



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Mode:b; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 06427CR

Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level		Limit Line		Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.59	38.98	48.59	54.86	-6.27	Peak
2	0.20	0.03	9.57	38.62	48.22	53.58	-5.36	Peak
3	0.26	0.03	9.58	36.07	45.68	51.38	-5.70	Peak
4	0.33	0.03	9.58	33.82	43.43	49.35	-5.92	Peak
5	0.39	0.03	9.59	31.11	40.73	48.12	-7.39	Peak
6	0.50	0.04	9.60	30.31	39.95	46.00	-6.05	Peak



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6.2 Radiated emission

Test Requirement Part 18.305
Test Method: FCC MP-5

Measurement Distance: 10m

Limit:

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise	Any ISM	Below 500	25	300
specified (miscellaneous)	frequency	500 or more	25 × SQRT(power/500)	¹ 300
	Any non-ISM	Below 500	15	300
	frequency	500 or more	15 × SQRT(power/500)	¹ 300
Industrial heaters and RF	On or below	Any	10	1,600
stabilized arc welders	5,725 MHz Above 5,725 MHz	Any	(²)	(²)
Medical diathermy	Any ISM	Any	25	300
	frequency Any non-ISM frequency	Any	15	300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz) × SQRT (power/500)	300 ³ 300
	490 to 1,600 kHz Above 1,600 kHz	1 -	24,000/F(kHz) 15	30 30
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	⁴ 30 ⁴ 30

 1Field strength may not exceed 10 $\mu V/m$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

²Reduced to the greatest extent possible.

 3 Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

⁴Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.



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6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

Pretest these a:Wireless mode_Keep the EUT pairing with other devices

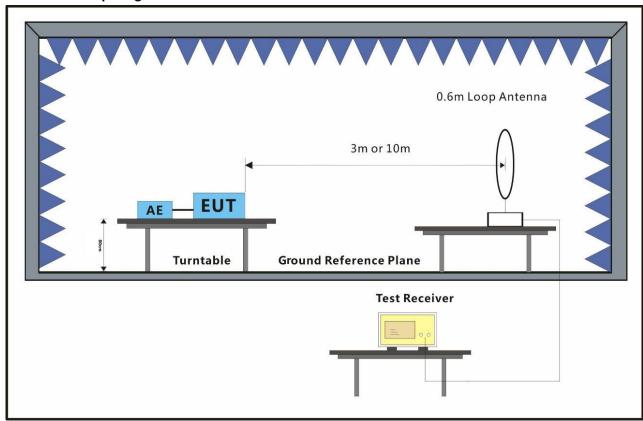
modes to find b:Wireless+Charging_Keep the EUT pairing with other devices and Charging

the worst case:

The worst case b:Wireless+Charging_Keep the EUT pairing with other devices and Charging

for final test:

6.2.2 Test Setup Diagram



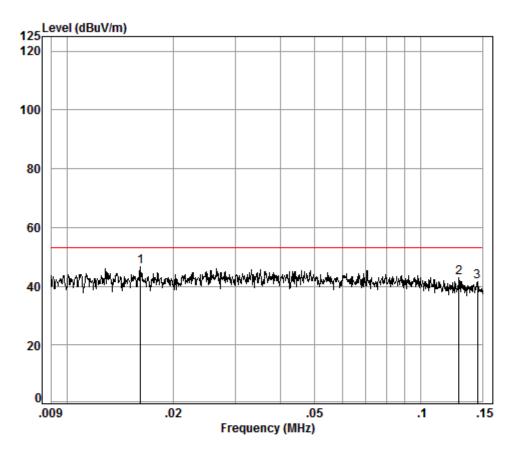
6.2.3 Measurement Procedure and Data



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Mode b: 9KHz-150kHz



Condition: 10m Job No. : 06427CR

Test Mode: a

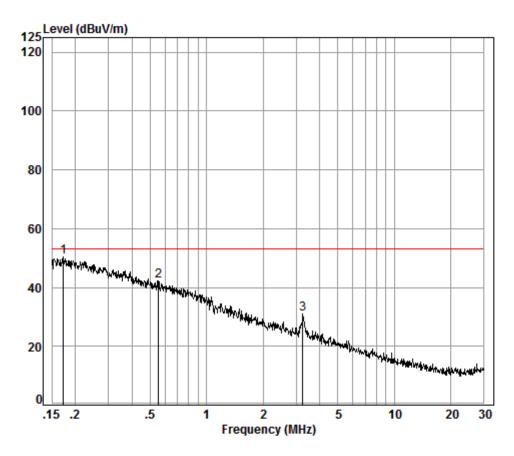
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	0.02			31.66				
2	0.13	0.06	11.82	32.67	63.66	42.87	53.06	-10.19
3	0.14	0.06	11.73	32.67	62.32	41.44	53.06	-11.62



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150kHz-30MHz



Condition: 10m Job No. : 06427CR

Test Mode: a

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	0.17	0.07	11.78	32.67	71.35	50.53	53.06	-2.53
2	0.56	0.13	11.78	32.66	63.01	42.26	53.06	-10.80
3	3.26	0.39	12.17	32.66	51.03	30.93	53.06	-22.13



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7 Photographs

7.1 Conducted disturbance Test Setup



7.2 Radiated emission Test Setup



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7.3 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -