



■ Report No.: DDT-R19062502-3E5

■ Issued Date: Aug. 27, 2019

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	Incipio, LLC
Address	:	3347 Michelson Drive, Suite 100, Irvine CA 92612
Equipment under Test	:	Fast Charge Wireless Charging Pad
Model No.	:	GP-110-BLK
Trade Mark	:	 GRIFFIN
FCC ID	:	2AAWX-GP110
Manufacturer	:	Incipio, LLC
Address	:	3347 Michelson Drive, Suite 100, Irvine CA 92612

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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REPORT

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TEST REPORT DECLARE

Applicant	:	Incipio, LLC
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Trade Mark	:	 GRIFFIN
Manufacturer	:	Incipio, LLC
Address	:	3347 Michelson Drive, Suite 100, Irvine CA 92612

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C

Test procedure used:

ANSI C63.10:2013

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-R19062502-3E5		
Date of Receipt:	Jul. 29, 2019	Date of Test:	Jul. 29, 2019 ~ Aug. 23, 2019

Prepared By:



Sam Li/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Aug. 27, 2019	

1 Summary of test results

Description of Test Item	Standard	Results
20dB Bandwidth	FCC Part 15: 15.215	PASS
Radiated Emission	FCC Part 15: 15.209	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2 General test information

2.1. Description of EUT

EUT* Name	: Fast Charge Wireless Charging Pad
Model Number	: GP-110-BLK
EUT function description	: Please reference user manual of this device
Power supply	: Input: DC 5V/2A or DC 9V/1.67A from external AC Adapter Output: 10W Max
Wireless charging Operation frequency	: 110kHz-205kHz
Antenna Type	: Inductive loop coil antenna
Sample Type	: Series production

Note: EUT is the ab. of equipment under test.

Channel information							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	110kHz	25	134kHz	49	158kHz	73	182kHz
2	111kHz	26	135kHz	50	159kHz	74	183kHz
3	112kHz	27	136kHz	51	160kHz	75	184kHz
4	113kHz	28	137kHz	52	161kHz	76	185kHz
5	114kHz	29	138kHz	53	162kHz	77	186kHz
6	115kHz	30	139kHz	54	163kHz	78	187kHz
7	116kHz	31	140kHz	55	164kHz	79	188kHz
8	117kHz	32	141kHz	56	165kHz	80	189kHz
9	118kHz	33	142kHz	57	166kHz	81	190kHz
10	119kHz	34	143kHz	58	167kHz	82	191kHz
11	120kHz	35	144kHz	59	168kHz	83	191kHz
12	121kHz	36	145kHz	60	169kHz	84	193kHz
13	122kHz	37	146kHz	61	170kHz	85	194kHz
14	123kHz	38	147kHz	62	171kHz	86	195kHz
15	124kHz	39	148kHz	63	172kHz	87	196kHz
16	125kHz	40	149kHz	64	173kHz	88	197kHz
17	126kHz	41	150kHz	65	174kHz	89	198kHz
18	127kHz	42	151kHz	66	175kHz	90	199kHz
19	128kHz	43	152kHz	67	176kHz	91	200kHz
20	129kHz	44	153kHz	68	177kHz	92	201kHz
21	130kHz	45	154kHz	69	178kHz	93	202kHz
22	131kHz	46	155kHz	70	179kHz	94	203kHz
23	132kHz	47	156kHz	71	180kHz	95	204kHz
24	133kHz	48	157kHz	72	181kHz	96	205kHz

Note:

In section 15.31(m), regards to the operating frequency range less than 1 MHz, only one of channel was selected to perform the test.

Channel	Frequency (kHz)
Testing channel	175

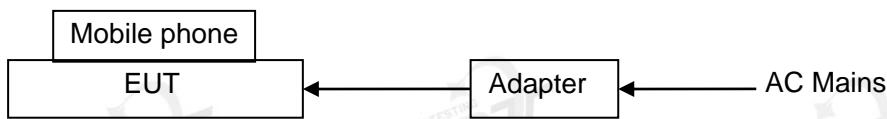
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
/	/	/	/	/

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number or Type	EMC Compliance	Other
Mobile phone	SAMSUNG	SM-G9600/DS	R28K331TTNF	N/A
Adapter	SAMSUNG	N/A	N/A	INPUT: AC 100-240V 50/60Hz OUTPUT: 5V/2A
AC Adapter	GIP	NF5V-2.3C-1 U	N/A	INPUT: AC 100V-240V, 50/60Hz, 0.5A; OUTPUT: DC 5V/2.3A
USB cable	N/A	N/A	N/A	Length: 1.0m

2.4. Block diagram of EUT configuration for test



2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25°C
Humidity range:	40-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

FCC Designation Number: CN1182; FCC Test Firm Registration Number: 540522
Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	3.32dB (150kHz-30MHz)
	3.72dB (9kHz-150kHz)
Uncertainty for Radiation Emission test (30MHz-1GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.10dB(1-6GHz)
	4.40dB (6GHz-18GHz)
Bandwidth	1.1%

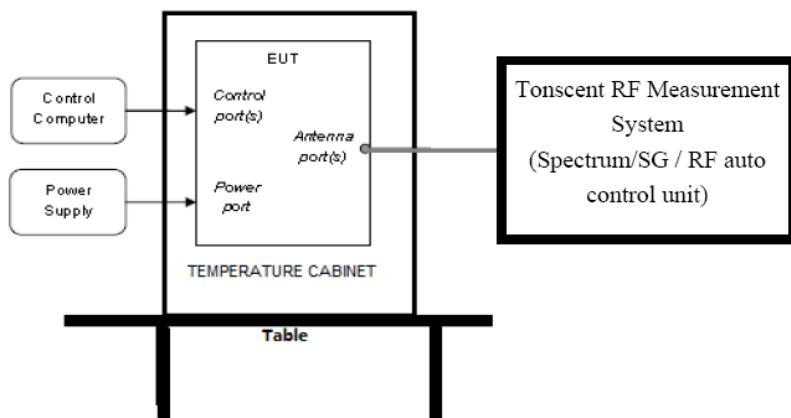
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3 Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (Tonscend RF Measurement System)					
Spectrum analyzer	R&S	FSU26	200071	Oct. 12, 2018	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 25, 2019	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Oct. 12, 2018	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 25, 2019	1 Year
Power Sensor	Agilent	U2021XA	MY55150010	Jun. 28, 2019	1 Year
Power Sensor	Agilent	U2021XA	MY55150011	Jun. 28, 2019	1 Year
DC Power Source	MATRIS	MPS-3005L-3	D813058W	Aug. 18, 2018	1 Year
Attenuator	Mini-Circuits	BW-S10W2	101109	Aug. 18, 2018	1 Year
RF Cable	Micable	C10-01-01-1	100309	Oct. 21, 2018	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	Oct. 21, 2018	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A
Radiation 1#chamber					
EMI Test Receiver	R&S	ESU8	100316	Oct. 12, 2018	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 25, 2019	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 09, 2018	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 20, 2018	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Nov. 16, 2018	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Oct. 25, 2018	1 Year
Pre-amplifier	A.H.	PAM-0118	360	Oct. 12, 2018	1 Year
Pre-amplifier	TERA-MW	TRLA-0040 G35	101303	Oct. 12, 2018	1 Year
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Oct. 21, 2018	1 Year
RF Cable	N/A	SMAJ-SMA J-1M+ 11M	17070133+17 070131	Nov. 08, 2018	1 Year
MI Cable	HUBSER	C10-01-01-1 M	1091629	Oct. 21, 2018	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test 2#					
EMI Test Receiver	R&S	ESU8	100316	Oct. 12, 2018	1 Year
LISN 1	R&S	ENV216	101109	Oct. 12, 2018	1 Year
LISN 2	R&S	ESH2-Z5	100309	Oct. 12, 2018	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Oct. 12, 2018	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Oct. 12, 2018	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4 20dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

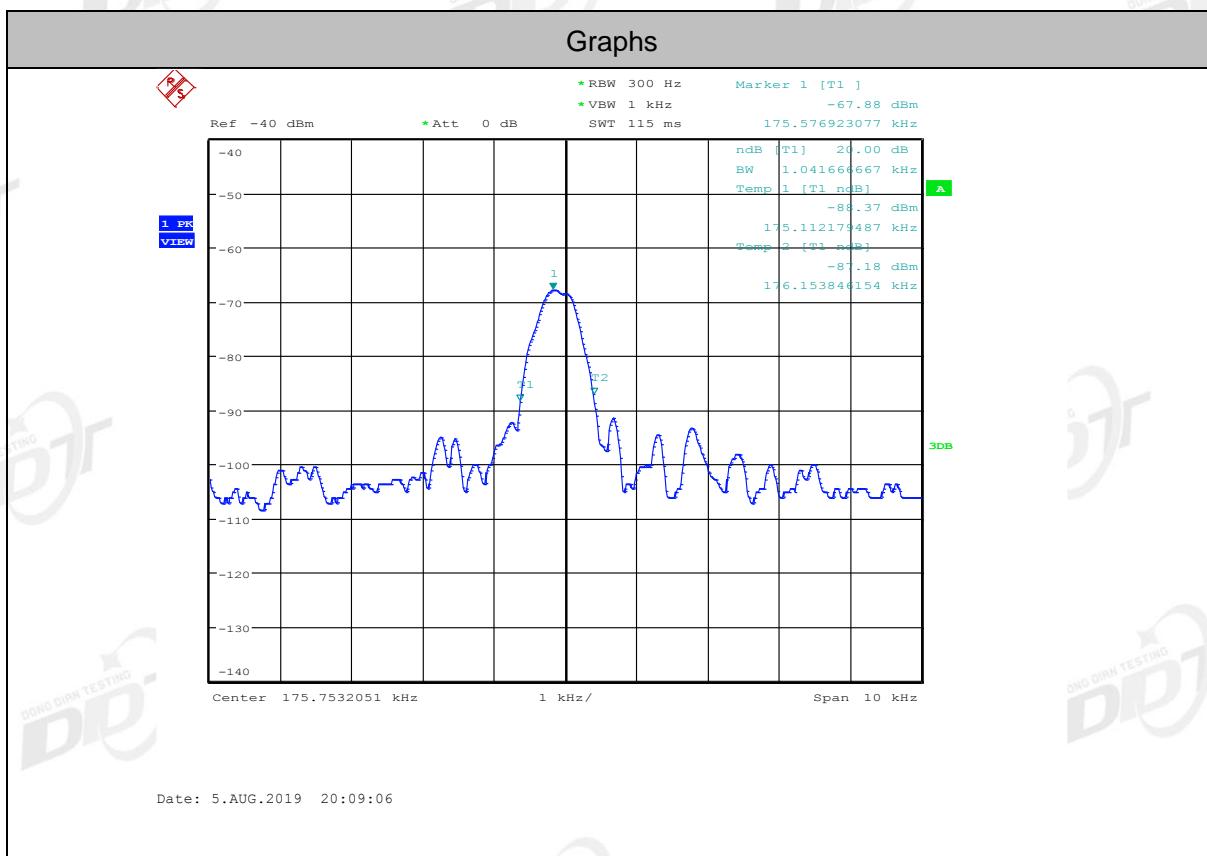
4.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300 Hz RBW and 1 kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.4. Test Result

Freq. (kHz)	20dB bandwidth Result (kHz)	Conclusion
175	1.042	PASS

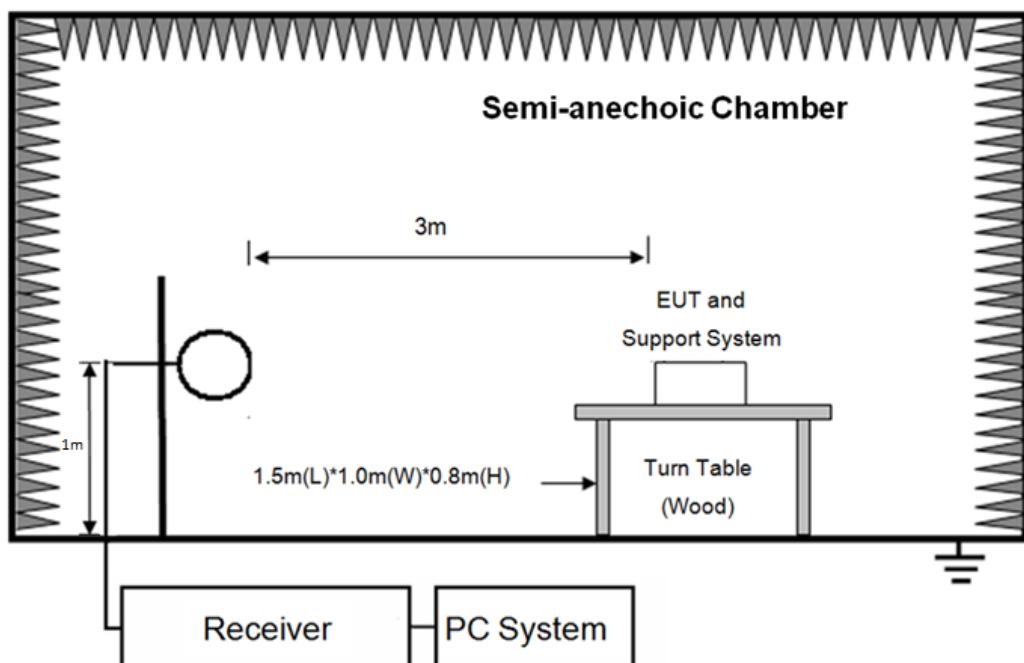
4.5. Original test data



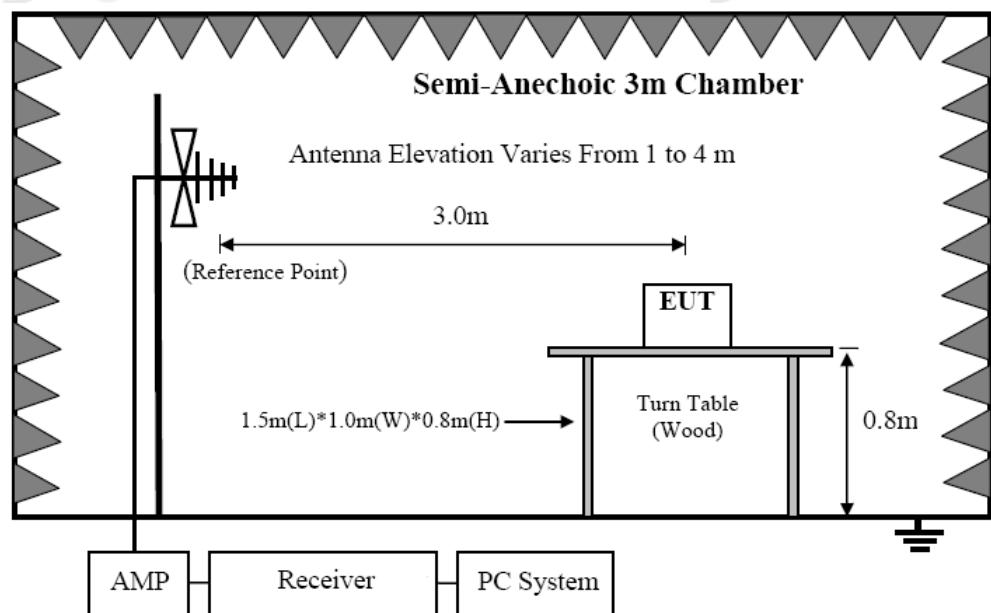
5 Radiated emission

5.1. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9kHz~30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz~1GHz



5.2. Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{300m}(\text{dBuV/m}) + 40\log(300m/3m) = \text{Limit}_{300m}(\text{dBuV/m}) + 80$$

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\log(30m/3m) = \text{Limit}_{30m}(\text{dBuV/m}) + 40$$

5.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 150 cm above the ground plane inside a semi-anechoic chamber.
- (2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9kHz-30MHz	Active Loop antenna	3m
30MHz-1GHz	Trilog Broadband Antenna	3m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9kHz to 1GHz:
 - (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's

fixed 1m above ground.)

- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.
- (d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions. Spectrum frequency from 9kHz to 1GHz (tenth harmonic of fundamental frequency) was investigated.
- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz, 110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9kHz-150kHz	200Hz
150kHz-30MHz	9kHz
30MHz-1GHz	120kHz

5.4. Test result

PASS. (See below detailed test result)

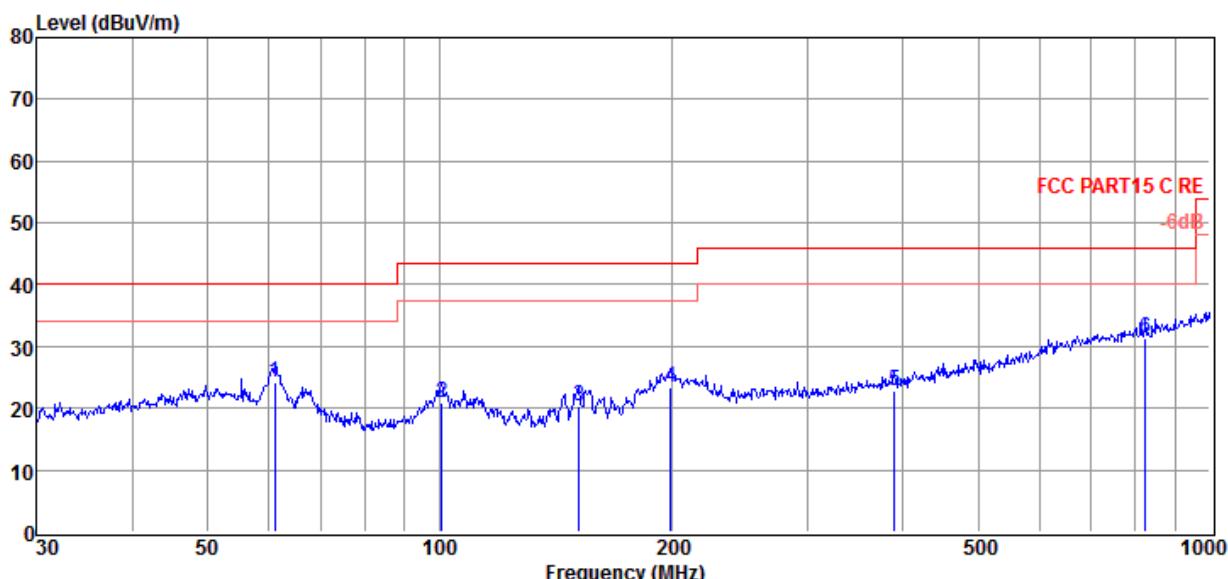
Below 30MHz:

Frequency (MHz)	Result@3m (dBuV/m)	Limit @3m (dBuV/m)	Detector	Conclusion
0.03	69.05	138.06	Peak	PASS
0.03	62.78	118.06	Average	PASS
0.175	89.30	122.74	Peak	PASS
0.175	81.67	102.74	Average	PASS
0.53	67.53	93.11	Peak	PASS
0.53	58.43	73.11	Average	PASS
0.88	58.14	68.71	QP	PASS
1.23	53.45	65.80	QP	PASS
7.37	54.40	69.54	QP	PASS

Above 30MHz:

TR-4-E-009 Radiated Spurious Emission Test Result

Test Site : DDT 3m Chamber 1# **Report Path** : D:\2019 RE1# Report Data\Q19062502-3E GP-110-BLK\FCC
Test Date : 2019-08-05 **Tested By** : jacky
EUT : Fast Charge Wireless Charging Pad **Model Number** : GP-110-BLK
Power Supply : AC 120V/60Hz **Test Mode** : Tx mode
Condition : Temp:24.5'C, Humi:55%, Press:100.1kPa **Antenna/Distance** : 2018 VULB 9163 1#/3m/VERTICAL
Memo : Data: 12



Item (Mark)	Freq. (MHz)	Read Level (dBm)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Type
1	61.13	9.15	11.17	3.96	24.28	40.00	-15.72	EIRP
2	100.58	4.87	11.71	4.21	20.79	43.50	-22.71	EIRP
3	151.60	7.39	8.47	4.53	20.39	43.50	-23.11	EIRP
4	199.29	7.17	11.30	4.81	23.28	43.50	-20.22	EIRP
5	389.36	2.00	15.45	5.47	22.92	46.00	-23.08	EIRP
6	824.60	3.74	20.96	6.66	31.36	46.00	-14.64	EIRP

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

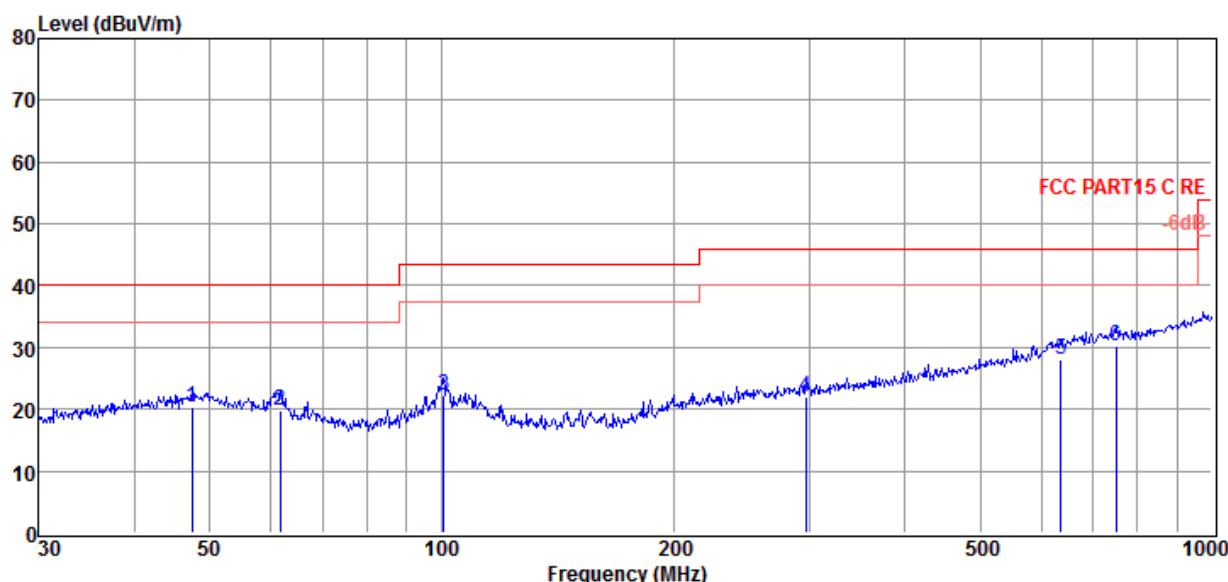
2. Below 1 GHz test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

3. Above 1 GHz test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Spurious Emission Test Result

Test Site : DDT 3m Chamber 1# **Tested By** : jacky
Test Date : 2019-08-05 **Model Number** : GP-110-BLK
EUT : Fast Charge Wireless Charging Pad **Power Supply** : AC 120V/60Hz
Condition : Temp:24.5'C, Humi:55%, Press:100.1kPa **Test Mode** : Tx mode
Memo :

 Data: 13



Item (Mark)	Freq. (MHz)	Read Level (dBm)	Antenna Factor (dB/m)	Cable Loss dB	Site Loss Factor dB	Result Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Type
1	47.49	2.17	14.32	3.85	0.00	20.34	40.00	-19.66	EIRP
2	61.78	4.69	11.04	3.96	0.00	19.69	40.00	-20.31	EIRP
3	100.58	6.23	11.71	4.21	0.00	22.15	43.50	-21.35	EIRP
4	297.22	2.78	13.94	5.18	0.00	21.90	46.00	-24.10	EIRP
5	636.13	2.72	19.11	6.20	0.00	28.03	46.00	-17.97	EIRP
6	750.11	3.29	20.41	6.50	0.00	30.20	46.00	-15.80	EIRP

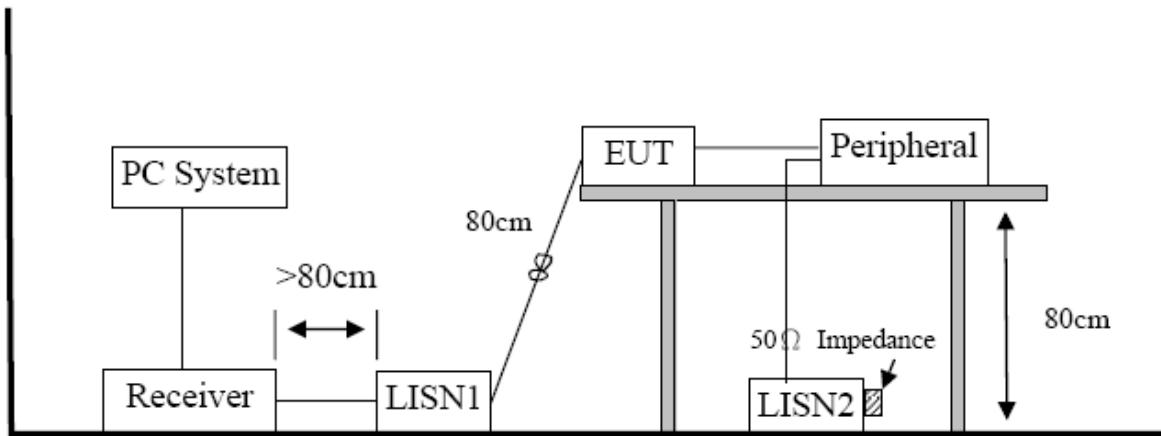
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Site Loss Factor.

2. Below 1 GHz test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

3. Above 1 GHz test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

6 Power Line Conducted Emission

6.1. Block diagram of test setup



6.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(µV)	Average Level dB(µV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

6.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

6.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

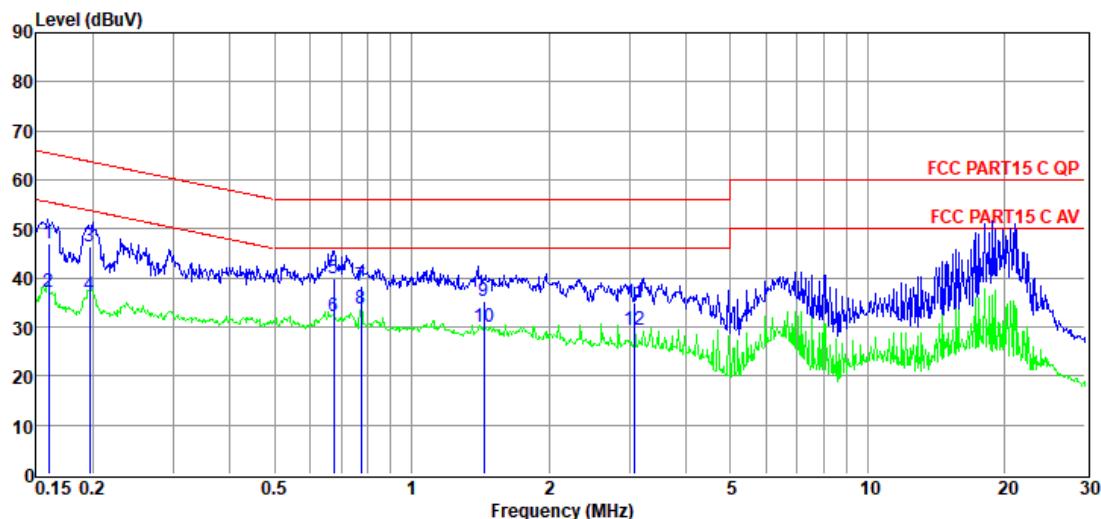
Note2: “ ” means Peak detection; “—” means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/60Hz, recorded worse case (AC 120V/60Hz).

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 5# Shield Room	D:\2019 report data\Q19062502-3E\20190822 RE.EM6
Test Date	: 2019-08-22	Tested By : KIVIN
EUT	: Fast Charge Wireless Charging Pad	Model Number : GP-110-BLK
Power Supply	: AC 120V/60Hz	Test Mode : Tx mode
Condition	: Temp:24.5°C, Humi:55.5%, Press:100.1kPa	LISN : 2018 ENV216 2#/NEUTRAL
Memo	:	

Data: 26



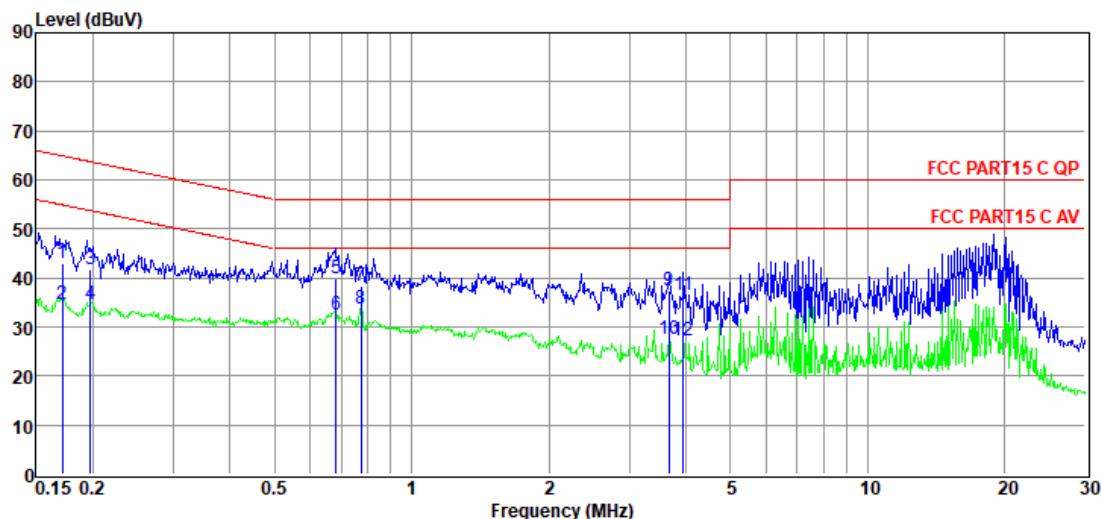
Item (Mark)	Freq. (MHz)	Read Level (dB μ V)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dB μ V)	Limit Line (dB μ V)	Over Limit (dB)	Detector	Phase
1	0.16	27.36	9.66	0.17	9.78	46.97	65.47	-18.50	QP	NEUTRAL
2	0.16	17.48	9.66	0.17	9.78	37.09	55.47	-18.38	Average	NEUTRAL
3	0.20	26.68	9.66	0.18	9.78	46.30	63.76	-17.46	QP	NEUTRAL
4	0.20	16.89	9.66	0.18	9.78	36.51	53.76	-17.25	Average	NEUTRAL
5	0.68	20.18	9.64	0.21	9.78	39.81	56.00	-16.19	QP	NEUTRAL
6	0.68	12.67	9.64	0.21	9.78	32.30	46.00	-13.70	Average	NEUTRAL
7	0.78	18.67	9.64	0.21	9.78	38.30	56.00	-17.70	QP	NEUTRAL
8	0.78	14.13	9.64	0.21	9.78	33.76	46.00	-12.24	Average	NEUTRAL
9	1.44	15.67	9.64	0.27	9.78	35.36	56.00	-20.64	QP	NEUTRAL
10	1.44	10.23	9.64	0.27	9.78	29.92	46.00	-16.08	Average	NEUTRAL
11	3.09	15.31	9.64	0.35	9.58	34.88	56.00	-21.12	QP	NEUTRAL
12	3.09	9.72	9.64	0.35	9.58	29.29	46.00	-16.71	Average	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room D:\2019 report data\Q19062502-3E\20190822 RE.EM6
Test Date : 2019-08-22 Tested By : KIVIN
EUT : Fast Charge Wireless Charging Pad Model Number : GP-110-BLK
Power Supply : AC 120V/60Hz Test Mode : Tx mode
Condition : Temp:24.5°C, Humi:55.5%, LISN : 2018 ENV216 2#/LINE
Press:100.1kPa
Memo :

Data: 28



Item (Mark)	Freq. (MHz)	Read Level (dB μ V)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Detector	Phase
1	0.17	23.29	9.66	0.17	9.78	42.90	64.90	-22.00	QP	LINE
2	0.17	15.18	9.66	0.17	9.78	34.79	54.90	-20.11	Average	LINE
3	0.20	22.21	9.66	0.18	9.78	41.83	63.71	-21.88	QP	LINE
4	0.20	15.04	9.66	0.18	9.78	34.66	53.71	-19.05	Average	LINE
5	0.68	20.13	9.64	0.21	9.78	39.76	56.00	-16.24	QP	LINE
6	0.68	12.88	9.64	0.21	9.78	32.51	46.00	-13.49	Average	LINE
7	0.78	18.64	9.64	0.21	9.78	38.27	56.00	-17.73	QP	LINE
8	0.78	14.00	9.64	0.21	9.78	33.63	46.00	-12.37	Average	LINE
9	3.66	18.04	9.63	0.36	9.50	37.53	56.00	-18.47	QP	LINE
10	3.66	8.01	9.63	0.36	9.50	27.50	46.00	-18.50	Average	LINE
11	3.94	17.18	9.63	0.36	9.46	36.63	56.00	-19.37	QP	LINE
12	3.94	7.77	9.63	0.36	9.46	27.22	46.00	-18.78	Average	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

7 Antenna Requirements

For intentional device, according to FCC 47 CFR Section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

END OF REPORT