

TEST REPORT

DT&C Co., Ltd. 42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel : 031-321-2664, Fax : 031-321-1664	Report No : DRTFCC1510-0209 Pages:(1) / (7) page	
1. Customer • Name : Green Power Electronics Co.,Ltd. • Address : Rm 811, STX V-Tower, 128, Gasan Digital 1-ro, Geumcheon-gu, Seoul 153-795, Korea 2. Use of Report : FCC Original Grant 3. Product Name (Model): Wireless Charging Transmitter (GP200WT) 4. Date of Test : 2015-09-16 ~ 2015-09-30 5. Test Method Used : FCC Part 1.1310 6. Testing Environment : See appended test report 7. Test Result : ☒ Pass ☐ Fail The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.		
Affirmation	Tested by Name : KwiCheol, Yeom (Signature)	Technical Manager Name : Geunki Son (Signature)
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Test Report Version

Test Report No.	Date	Description
DRTFCC1510-0209	Oct. 08, 2015	Initial issue

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1. Equipment information

1.1 Equipment description

FCC Equipment Class	Part 15 Low Power Transmitter Below 1705 kHz (DCD)
Equipment type	Wireless Charging Transmitter
Equipment model name	GP200WT
Equipment add model name	N/A
Equipment serial no.	Identical prototype
Hardware version	Ver 1.0
Frequency range	110 ~ 205kHz
Output power	Max : 5 W
Power	AC 120V 60Hz DC 5 V
Antenna type	Coil Antenna(single coil)

1.2 Support equipment

Equipment	Model No.	Serial No.	Manufacturer	Note
TRAVEL ADAPTER	MCS-02ER	RB3Y0201021	LG	-
S CHARGER COVER	EP-CN900IBU	RT1DA05AS/6-E	SAMSUNG	-
-	-	-	-	-

Note: The above equipment was supported by manufacturer.

2. Information about test items

2.1 Test Configuration and Mode

•Test configuration

The field strength of both E-field and H-field were measured at 10 cm using RF exposure survey meter with E-field and H-field probes for determining compliance with the MPE requirements of FCC Part 1.1310

During measurements, the wireless charging pad (EUT) was wirelessly charging a battery housed inside a portable handset and was loaded with the client device using the resistor as described below summary table for test modes and conditions.

The RF power density was measured with the battery at 2 different charge conditions: battery at almost 0 % and 50 % status, 3 resistive load conditions: 300 mA, 600 mA, 1000 mA (Max. charging current with 5 Ω resistor).

These testing were performed at test configuration as test setup diagram on clause 3 of this test report.

EUT was placed on a non-conductive turntable, and the portable handset with charging cover for charging a battery or client device with resistive load for drawing various load current.

This device uses a wireless charging circuit for power transfer operating at the frequency of 110 KHz ~ 205 KHz. Thus, the 300 KHz RF exposure limits were used as below table.

•Test mode

This device has been tested with the below test modes and charging current conditions:

Charging Current	Support Equipment
300mA	Wireless Charging Cover
600mA	
1000mA(Max)	

• Limit

	Frequency	E-Field limit	H-Field limit
FCC Part 1.1310	300 kHz ~ 3 MHz	614 V/m	1.63 A/m

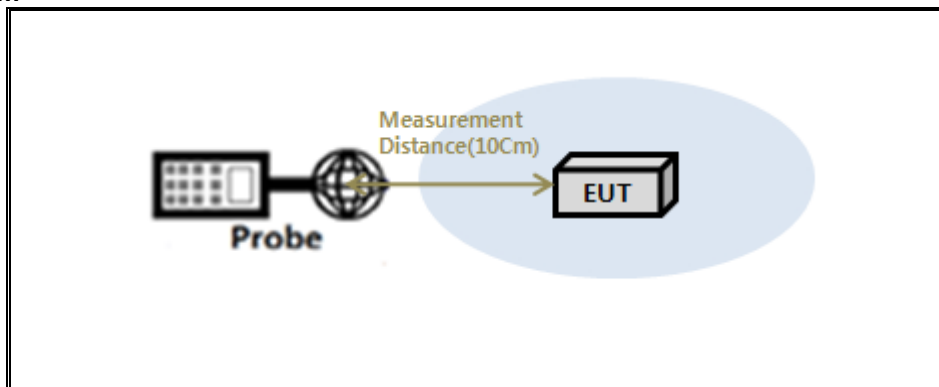
2.2 Tested environment

Temperature	:	23 ~ 25 °C
Relative humidity content	:	35 ~ 44 % R.H.
Details of power supply	:	AC 120V 60Hz DC 5V

3. E and H field strength

For RF exposure purposes, the E and H field strengths are measured separately with E and H probes and meters at different locations surrounding the test setup.

▪ Test setup diagram



▪ Measurement procedure

These testing were performed at test configuration as above diagram.

EUT was placed on a turntable, and the measurement distance of 10 Cm from the center of the probe to the edge of the device. And test was performed all sides of the EUT(except bottom side).

▪ Test equipment list

	Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next. Cal.Date (yy/mm/dd)	S/N
☒	EMF Meter	NARDA	ELT-400	14/09/20	16/09/20	N-0342
☒	EMF probe	NARDA	B-Field Probe	14/09/20	16/09/20	M-0779
☒	Broadband field meter	NARDA	NBM-550	14/09/19	16/09/19	E-1275
☒	Broadband field probe	NARDA	EF-0391	14/09/19	16/09/19	D-0894

•Measurement data:

Tested Frequency	Result								Limit	
	E-field(V/m)				H-field(A/m)				E-field(V/m)	H-field(A/m)
	0	90	180	270	0	90	180	270		
Lowest	9.750	5.790	3.450	5.110	1.217	0.475	0.589	0.460	614	1.63
Middle	9.670	5.630	3.310	4.940	1.157	0.416	0.554	0.409		
Highest	9.690	5.710	3.400	5.080	1.192	0.437	0.569	0.445		

Note: The worst case data were reported.