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RF EXPOSURE REPORT

According to : FCC 47CFR part 1 subpart I and part 2 subpart J

KDB Inquiry : Tracking Number 597533

Test Report No.	:	CTK-2017-00487
Date of Issue	:	March 21, 2017
FCC ID	:	2ALH5-PRESTO-A300FT
Model/Type No.	:	RT-A300FT
Kind of Product	:	Wireless Charging Pad
Applicant	:	RT Tech Co., Ltd.
Applicant Address	:	1104, 271, Digital-ro, Guro-gu, Seoul
Manufacturer	:	RT Tech Co., Ltd.
Manufacturer Address	:	1104, 271, Digital-ro, Guro-gu, Seoul
Contact Person	:	Winfred Shin (Director)
Telephone	:	+82-2-830-8660
Received Date	:	March 14, 2017
Test period	:	Start : March 20, 2017 End : March 21, 2017
Test Results	:	☒ In Compliance ☐ Not in Compliance

The test results presented in this report relate only to the object tested.

Tested by

Young-taek Lee
Test Engineer
Date: March 21, 2017

Reviewed by

Young-Joon, Park
Technical Manager
Date: March 21, 2017

REPORT REVISION HISTORY

Date	Revision	Page No
March 21, 2017	Issued (CTK-2017-00487)	All

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1.0 General Product Description

Type of equipment	Wireless Charging Pad
Equipment model name	RT-A300FT
Frequency Range	6.78 MHz
Power Source	Input : DC 36 V

1.1 Model Differences

Not applicable

1.2 Device Modifications

The following modifications were necessary for compliance:

Not applicable

1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
AC/DC Adapter	HON-KWANG I.T.E POWER SUPPLY	HK-X145-A36	-
TEST Jig	RT Tech Co., Ltd.	-	-

1.4 EUT Operating Modes

Equipment under test was operated during the measurement under the following conditions:

☒ maximum power transfer condition

1.5 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

1.6 Test Facility

The measurement facility is located at (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea.

1.7 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Registration Number	Logo
USA	FCC	FCC Part 15 & 18 EMI (Electromagnetic Interference / Emission)	805871	
JAPAN	VCCI	VCCI V-3 EMI (Electromagnetic Interference / Emission)	C-986 T-1843 R-3627 G-387	
KOREA	MSIP	EMI (Electromagnetic Interference / Emission) EMS (Electromagnetic Susceptibility / Immunity)	KR0025	

2.0 Summary of tests

FCC Part Section(s)	Parameter	Status (note 1)
1.1307(b), 1.1310	Radio frequency radiation exposure limits	Complies

2.1 Test Setup

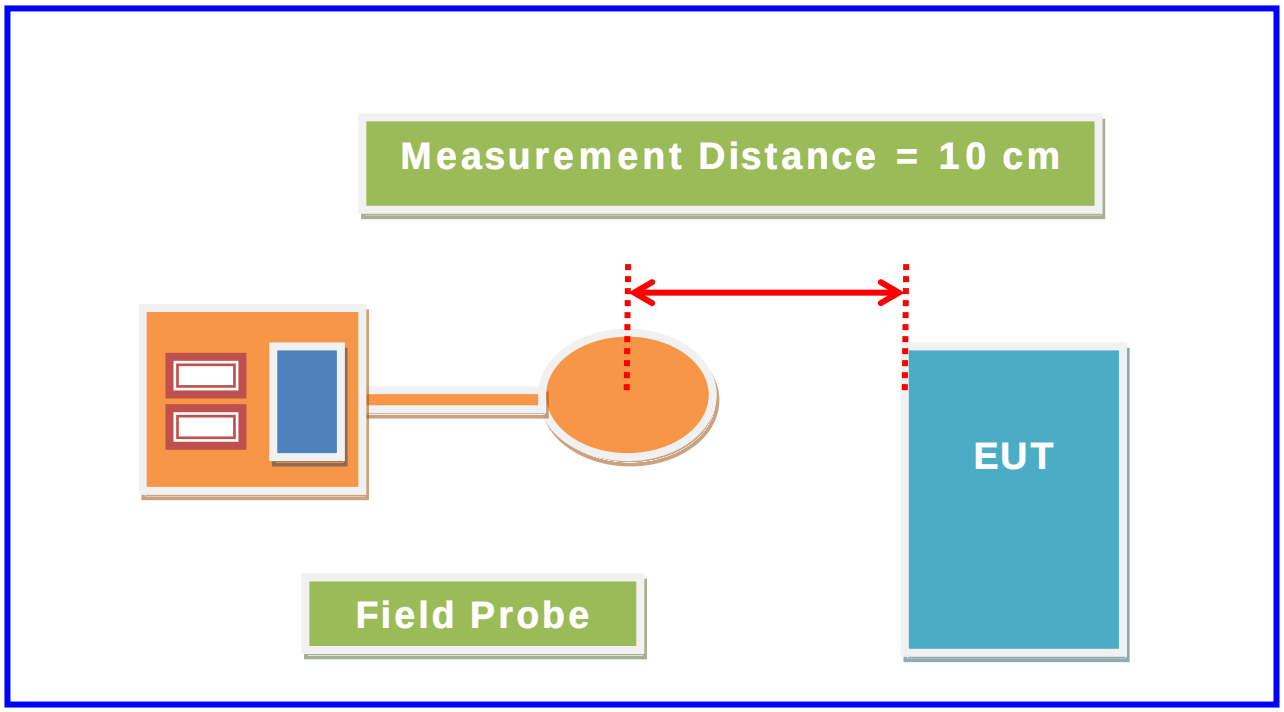
Test Location

Anechoic Chamber

Measurement distance information

Measurement distance = 10 cm

From EUT edge to the center of probe.



Measurements should be made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device.

2.2 Radio frequency radiation exposure limits

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

2.3 Test Results

EUT	Wireless Charging Pad	Model	RT-A300FT
Frequency Range	6.78 MHz	Test mode	TX

The requirements are:

☒ Complies

Test Data (E-Field)

EUT Side	Top	Bottom	Left	Right	Z-Axis(above)
Max E-field (V/m)	2.9	3.8	9.7	9.2	2.8
Limit 824/f (V/m)	121.5	121.5	121.5	121.5	121.5
Margin (V/m)	118.6	117.7	111.7	112.3	118.7

Test Data (H-Field)

EUT Side	Top	Bottom	Left	Right	Z-Axis(above)
Max H-field (A/m)	0.278	0.264	0.139	0.145	0.247
Limit 2.19/f (A/m)	0.323	0.323	0.323	0.323	0.323
Margin (A/m)	0.045	0.059	0.184	0.178	0.076

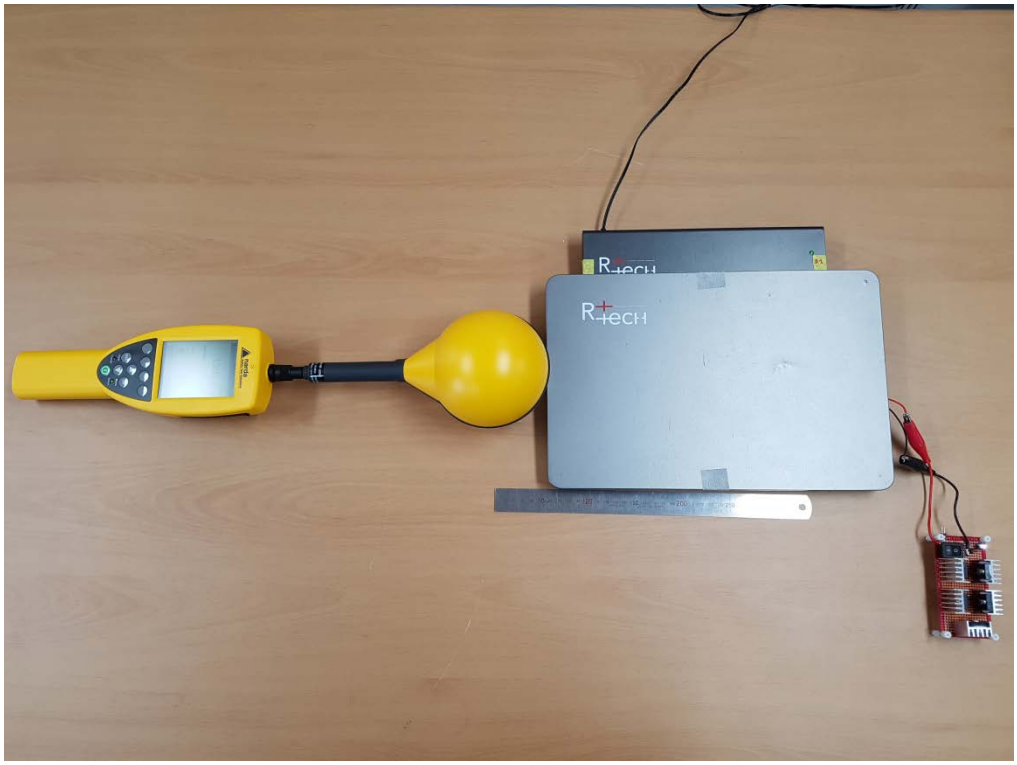
Measurements was made from all sides and the top of the primary/client pair, with the 10 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Due Date
1	E-Field Probe	Schaffner	2244/90.20	R-0029	2017-07-30
2	EM Radiation Meter	Schaffner	EMC-20	R-0029	2017-07-30
3	Magnetic Probe	NARDA	HF3061	D-0477	2017-04-06
4	Broadband Field Meter	NARDA	NBM-550	G-0500	2017-04-07

APPENDIX B – Test Setup Photos

H-Field



E-Field