TEST REPORT

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2017-01992

1. Client

◦ Name : Pincraft Enginnering INC

◦ Address : 2nd floor, Artview BLD, Pyoungchon Smart Squre, 170beon-gil 44, burim-ro Dongan-gu Anyang-si, Gyeonggi-do, Korea

◦ Date of Receipt : 2017-09-06

2. Manufacturer

◦ Name : Pincraft Enginnering INC

◦ Address : 2nd floor, Artview BLD, Pyoungchon Smart Squre, 170beon-gil 44, burim-ro Dongan-gu Anyang-si, Gyeonggi-do, Korea

3. Use of Report : For FCC Certification

4. Test Sample / Model: Wireless Charger / PWC-WT508

5. Date of Test : 2017-10-14 to 2017-10-16

6. Test Standard(method) used : FCC 47 CFR part 15 subpart C

7. Testing Environment: Temp.: (22 ± 5) ℃, Humidity: (51 ± 3) % R.H.

8. Test Results : Compliance

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 Bongjun, Jang: (Signature)	Technical Manager Young-taek, Lee: (Signature)

2017-10-24

Republic of KOREA **CTK Co., Ltd.**

TEST REPORT

REPORT REVISION HISTORY

Date	Revision	Page No
2017-10-24	Issued (CTK-2017-01992)	All

TEST REPORT

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1.0 General Product Description

Type of equipment	Wireless Charger
Equipment model name	PWC-WT508
FCC ID	2AN8I-PWC-WT508
Frequency Range	112 kHz – 205 kHz
Antenna type	Coil antenna
Coil Specification	Outer diameter : 43.0±0.5 mm Inner diameter : 20.7±0.5 mm
Power Source	TRAVEL ADAPTER Input : AC 100-240 V, 50/60 Hz Output : DC 5 V Test Voltage and Frequency : AC 120 V, 60 Hz

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.	FCC ID or DoC
TRAVEL ADAPTER	RF Tech(Tianjin) Electronics Co., Ltd.	ETA-U90KWK	RT4D420LV/B-E	Verification
Mobile phone (Qi Charger)	SAMSUNG Electronics Co., Ltd.	SM-930K (SAMSUNG Galaxy S7)	-	A3LSMG930KOR

1.4 EUT Operating Modes

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

☒ Charging

Modulation Type : CW (Continuous Wave)

Output Power : Max. 9.49 dBuV/m (Frequency 115.59 kHz, Test Distance 3 m)

TX Duty Cycle : 100 % by measurement

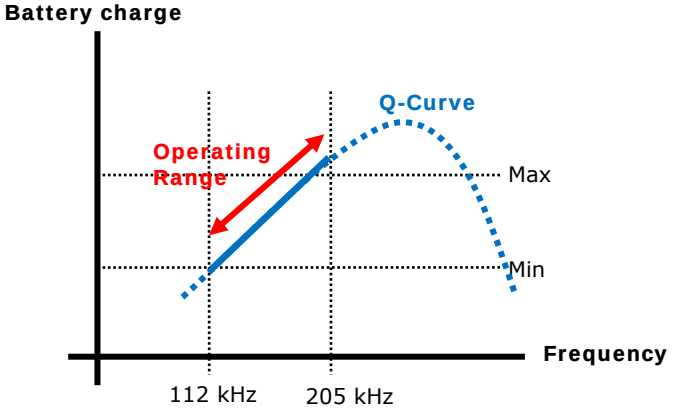
1.5 Test Modes

This device has been tested below conditions:
E and H Field measurements were performed at a distance of 10 cm laterally from the edges of the EUT.

The tests were performed by configuring the test settings on the remaining charge of the rechargeable battery to charge the client device for various loading conditions.
The following modes were investigated with the Mobile phone(Qi Charger) under the following conditions:

- Mobile phone(Qi Charger) at 1% charge state.(Test Frequency 112 kHz)
- Mobile phone(Qi Charger) at 50% charge state.(Test Frequency 157.5 kHz)
- Mobile phone(Qi Charger) at 99% charge state.(Test Frequency 205 kHz)

Frequency	Battery Charge	Note
112 kHz	Min	Low Frequency
157.5 kHz	Medium	Middle Frequency
205 kHz	Max	High Frequency



1.6 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.

1.7 Test Facility

The measurement facility is located at 386-1, Ho-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, 449-100, Korea.

1.8 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
USA	**FCC**	3 m & 10 m OATS, 3 m & 10 m SAC and Conducted Test Site to perform FCC Part 15/18 measurements	805871
JAPAN	**VCCI**	10 m OATS, 3 m & 10 m SAC and Conducted Test Site	R-948, C-986 T-1843
KOREA	**KCC**	EMI (10 m OATS, 10 m SAC and Conducted Test Site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and Interruptions)	No. 51, KR0025
International	**KOLAS**	EMC	

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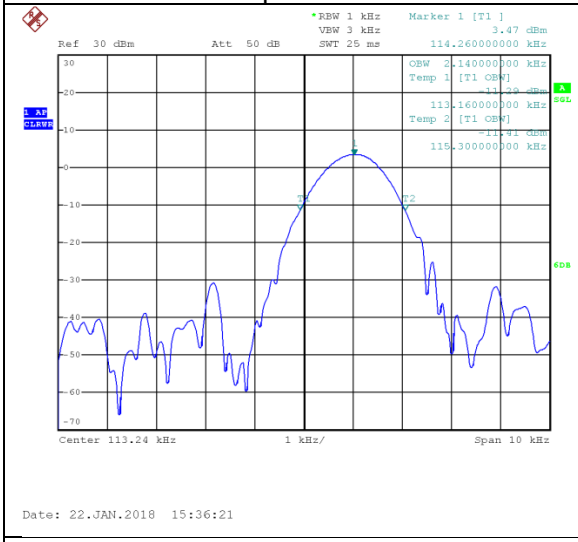
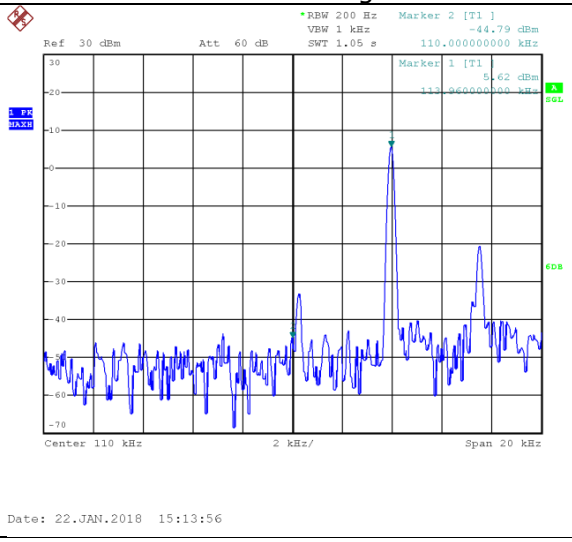
2.0 Summary of tests

FCC Part Section(s)	Parameter	Status (note 1)
15.203	Antenna requirement	N/A
15.204	External radio frequency power amplifier and antenna modifications	N/A
15.207	Conducted emissions	Complies
15.209	Radiated emissions	Complies

Footnotes for N/A's:

§ 15.203 is not applicable because the transmitter is provided with an integral antenna.
§ 15.204 is not applicable because the transmitter is provided with an integral antenna.

2.1 Occupied Bandwidth / Band-edge Compliance

Occupied Bandwidth	Band-edge
	
OBW : 2.14 kHz [1.07 kHz: (one half of the OBW)] The lowest frequency is 112 kHz. Since it is OBW (2.14 kHz), it does not exceed 0.110 MHz.	110 kHz : -44.79 dBm

2.2 Power line conducted emissions (Section 15.207)

Test Location
Shielded Room

Frequency Range of Measurement
150 kHz to 30 MHz

Instrument Settings
IF Band Width: 9 kHz

Test Procedures

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.
Amplitude measurements were performed with a quasi-peak detector and an average detector.

* Measurement procedures was In accordance with ANSI C63.10-2013

Limit
-15.207(a)

Frequency (MHz)	Conducted Limit (dBuV)	
	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.

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EUT Operating Modes

The EUT is an intentional radiator is operated at 112 kHz to 205 kHz.
We have tested three frequencies, Low (112 kHz), Middle (157.5 kHz), High (205 kHz), for power line conducted emissions test.

* Middle (157.5 kHz) : Exactly half way between 112 kHz and 205 kHz.

Test Results

The requirements are:

☒ Complies

[Operating Frequency : 112 kHz]

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
0.411	46.4	11.2	Quasi-peak

[Operating Frequency : 157.5 kHz]

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
0.415	46.5	11.1	Quasi-peak

[Operating Frequency : 205 kHz]

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
0.411	46.4	11.3	Quasi-peak

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Test Data

[Operating Frequency : 112 kHz]

[HOT : AC 120 V]

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.244500	48.9	1000.0	9.000	On	L1	9.6	13.1	61.9
0.249000	49.0	1000.0	9.000	On	L1	9.6	12.8	61.8
0.321000	44.8	1000.0	9.000	On	L1	9.8	14.9	59.7
0.415500	45.3	1000.0	9.000	On	L1	9.8	12.3	57.5
0.564000	42.0	1000.0	9.000	On	L1	9.8	14.0	56.0
0.577500	41.8	1000.0	9.000	On	L1	9.8	14.2	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.339000	22.9	1000.0	9.000	On	L1	9.8	26.3	49.2
0.415500	23.9	1000.0	9.000	On	L1	9.8	23.6	47.5
3.309000	23.4	1000.0	9.000	On	L1	9.7	22.6	46.0
4.294500	24.0	1000.0	9.000	On	L1	9.7	22.0	46.0
4.380000	24.4	1000.0	9.000	On	L1	9.7	21.6	46.0
9.937500	30.2	1000.0	9.000	On	L1	9.8	19.8	50.0

[NEUTRAL : AC 0 V]

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.244500	49.2	1000.0	9.000	On	N	9.7	12.8	61.9
0.334500	46.0	1000.0	9.000	On	N	9.9	13.3	59.3
0.411000	46.4	1000.0	9.000	On	N	10.0	11.2	57.6
0.487500	41.1	1000.0	9.000	On	N	10.0	15.1	56.2
0.559500	42.3	1000.0	9.000	On	N	10.0	13.7	56.0
0.667500	42.2	1000.0	9.000	On	N	10.0	13.8	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.244500	28.2	1000.0	9.000	On	N	9.7	23.7	51.9
10.356000	30.7	1000.0	9.000	On	N	9.9	19.3	50.0
12.759000	32.0	1000.0	9.000	On	N	9.9	18.0	50.0
14.325000	37.7	1000.0	9.000	On	N	10.0	12.3	50.0
15.904500	31.2	1000.0	9.000	On	N	10.0	18.8	50.0
21.916500	12.5	1000.0	9.000	On	N	10.0	37.5	50.0

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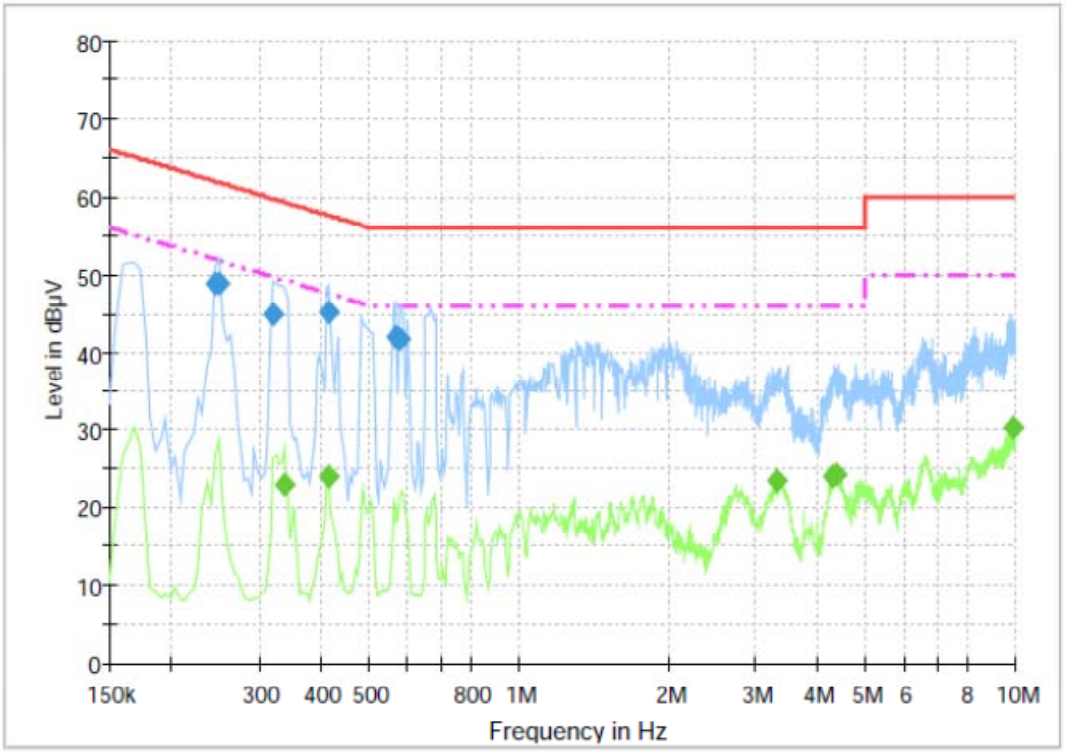
[HOT : AC 120 V]



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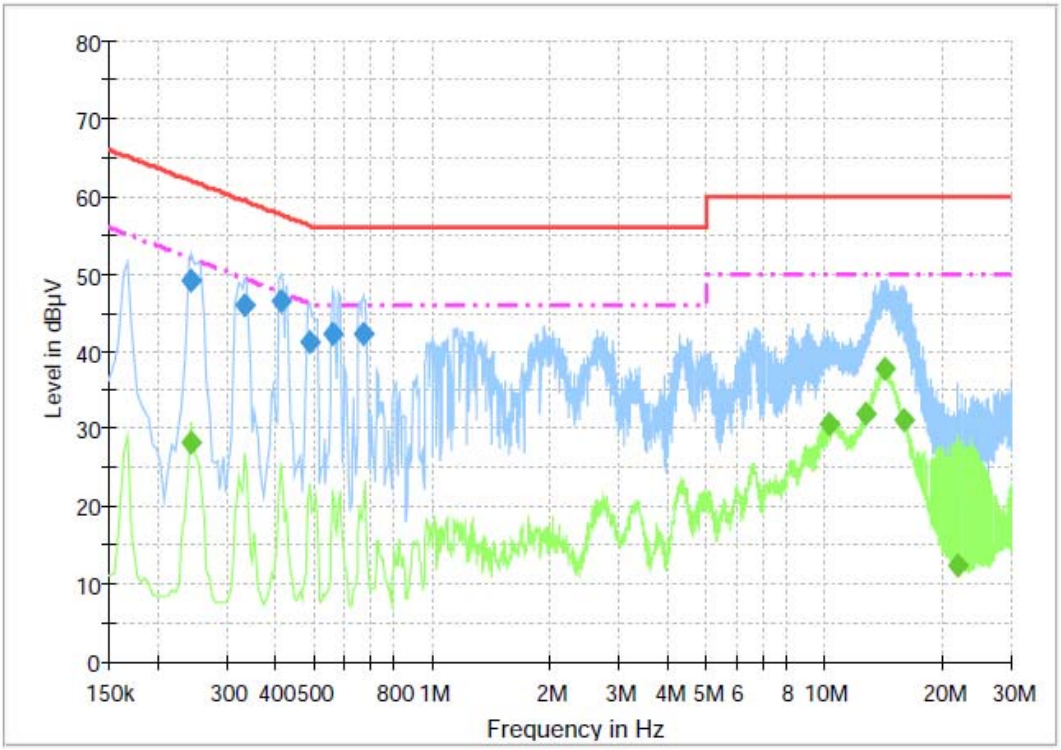

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[Operating Frequency : 157.5 kHz]

[HOT : AC 120 V]

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.244500	49.0	1000.0	9.000	On	L1	9.6	12.9	61.9
0.253500	48.7	1000.0	9.000	On	L1	9.6	12.9	61.6
0.334500	45.3	1000.0	9.000	On	L1	9.8	14.0	59.3
0.406500	45.2	1000.0	9.000	On	L1	9.8	12.5	57.7
0.411000	45.2	1000.0	9.000	On	L1	9.8	12.4	57.6
0.564000	41.6	1000.0	9.000	On	L1	9.8	14.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.240000	26.7	1000.0	9.000	On	L1	9.7	25.4	52.1
0.253500	27.1	1000.0	9.000	On	L1	9.6	24.6	51.6
0.564000	21.1	1000.0	9.000	On	L1	9.8	24.9	46.0
4.294500	23.9	1000.0	9.000	On	L1	9.7	22.1	46.0
4.321500	24.2	1000.0	9.000	On	L1	9.7	21.8	46.0
9.843000	30.1	1000.0	9.000	On	L1	9.8	19.9	50.0

[NEUTRAL : AC 0 V]

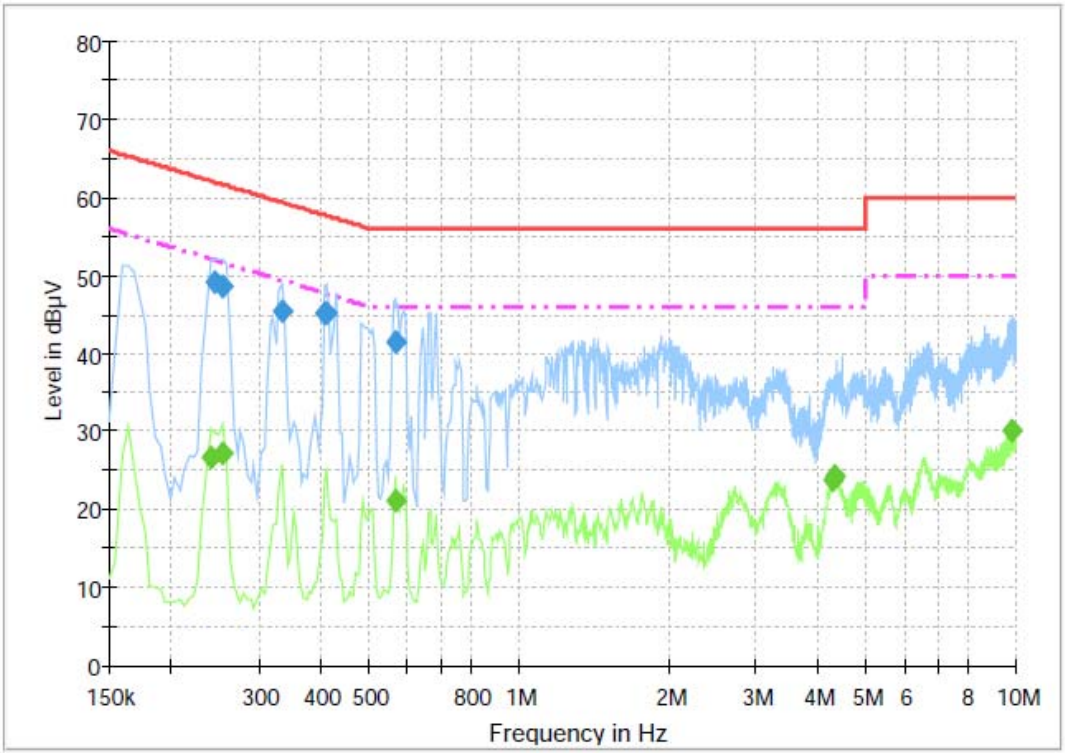
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.244500	49.2	1000.0	9.000	On	N	9.7	12.7	61.9
0.339000	45.4	1000.0	9.000	On	N	9.9	13.8	59.2
0.415500	46.5	1000.0	9.000	On	N	10.0	11.1	57.5
0.564000	43.6	1000.0	9.000	On	N	10.0	12.4	56.0
0.685500	38.2	1000.0	9.000	On	N	9.9	17.8	56.0
14.419500	43.8	1000.0	9.000	On	N	10.0	16.2	60.0

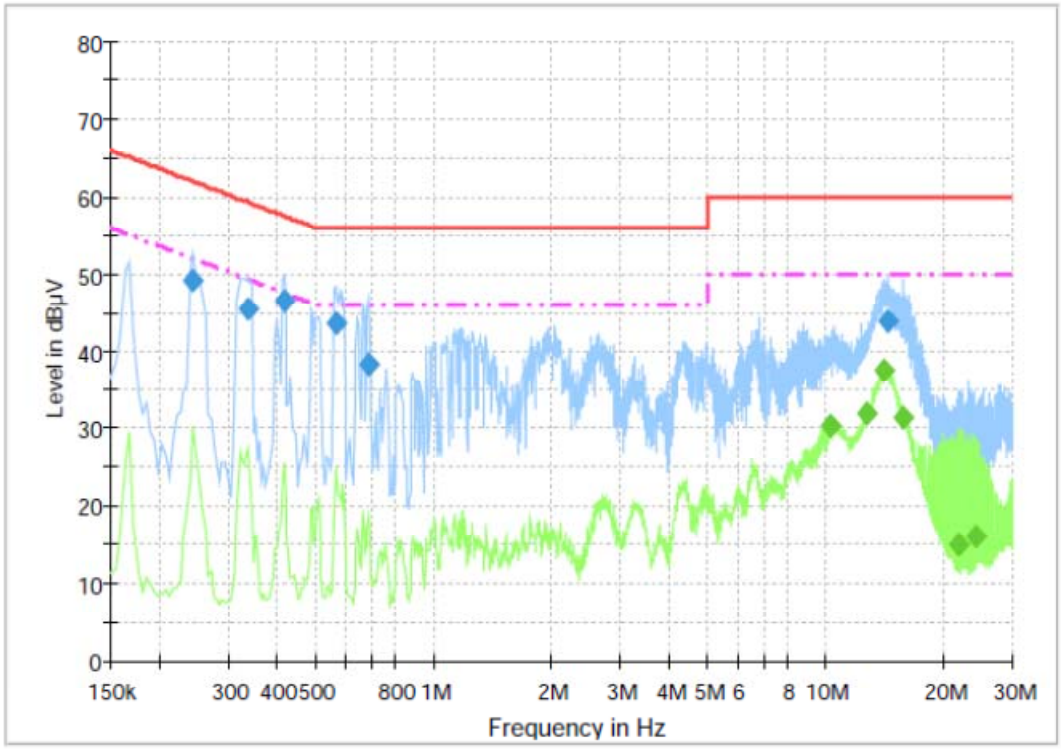
Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
10.338000	30.4	1000.0	9.000	On	N	9.9	19.6	50.0
12.768000	32.0	1000.0	9.000	On	N	9.9	18.0	50.0
14.154000	37.6	1000.0	9.000	On	N	10.0	12.4	50.0
15.886500	31.5	1000.0	9.000	On	N	10.0	18.5	50.0
21.930000	15.0	1000.0	9.000	On	N	10.0	35.0	50.0
24.288000	16.0	1000.0	9.000	On	N	10.1	34.0	50.0

[HOT : AC 120 V]



[NEUTRAL : AC 0 V]



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[Operating Frequency : 205 kHz]

[HOT : AC 120 V]

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.244500	49.0	1000.0	9.000	On	L1	9.6	12.9	61.9
0.249000	49.2	1000.0	9.000	On	L1	9.6	12.6	61.8
0.406500	45.2	1000.0	9.000	On	L1	9.8	12.5	57.7
0.424500	44.4	1000.0	9.000	On	L1	9.8	13.0	57.4
0.573000	41.3	1000.0	9.000	On	L1	9.8	14.7	56.0
0.672000	40.8	1000.0	9.000	On	L1	9.8	15.2	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.406500	24.0	1000.0	9.000	On	L1	9.8	23.7	47.7
0.424500	22.1	1000.0	9.000	On	L1	9.8	25.2	47.4
3.300000	23.4	1000.0	9.000	On	L1	9.7	22.6	46.0
4.290000	24.0	1000.0	9.000	On	L1	9.7	22.0	46.0
4.947000	23.3	1000.0	9.000	On	L1	9.7	22.7	46.0
9.766500	29.8	1000.0	9.000	On	L1	9.8	20.2	50.0

[NEUTRAL : AC 0 V]

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.253500	49.0	1000.0	9.000	On	N	9.7	12.6	61.6
0.334500	46.0	1000.0	9.000	On	N	9.9	13.3	59.3
0.411000	46.4	1000.0	9.000	On	N	10.0	11.3	57.6
0.496500	40.7	1000.0	9.000	On	N	10.0	15.4	56.1
0.559500	42.3	1000.0	9.000	On	N	10.0	13.7	56.0
0.681000	41.6	1000.0	9.000	On	N	9.9	14.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.253500	27.2	1000.0	9.000	On	N	9.7	24.4	51.6
10.356000	30.6	1000.0	9.000	On	N	9.9	19.4	50.0
12.844500	32.4	1000.0	9.000	On	N	9.9	17.6	50.0
14.154000	37.6	1000.0	9.000	On	N	10.0	12.4	50.0
15.913500	31.3	1000.0	9.000	On	N	10.0	18.7	50.0
22.173000	21.4	1000.0	9.000	On	N	10.0	28.6	50.0

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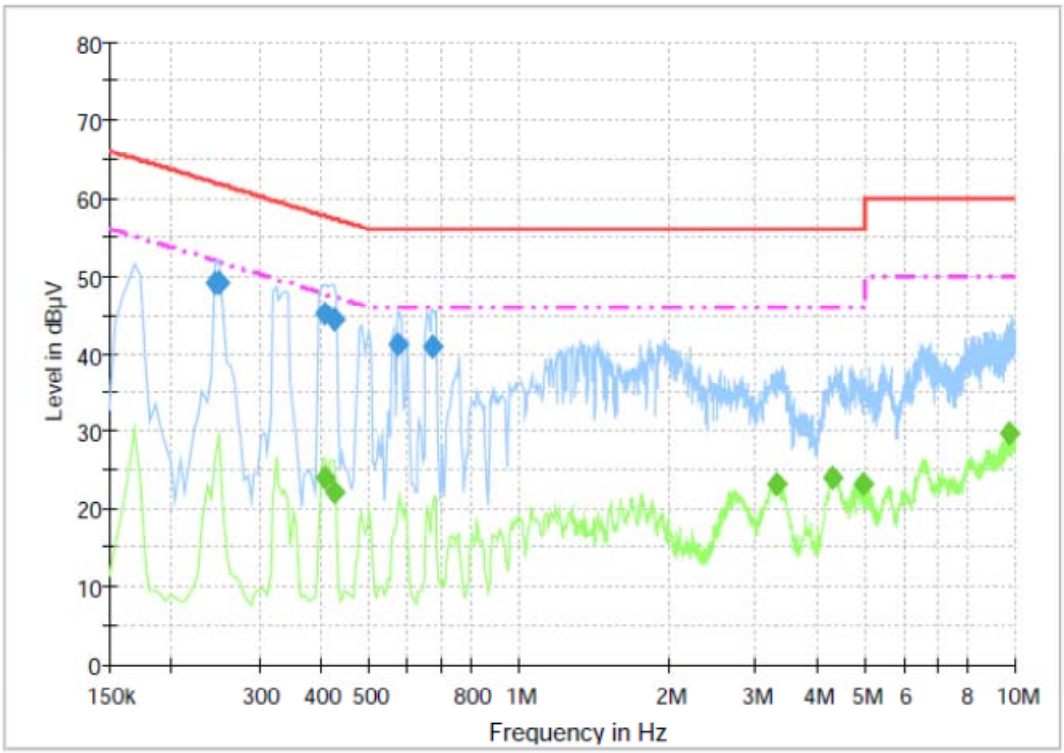
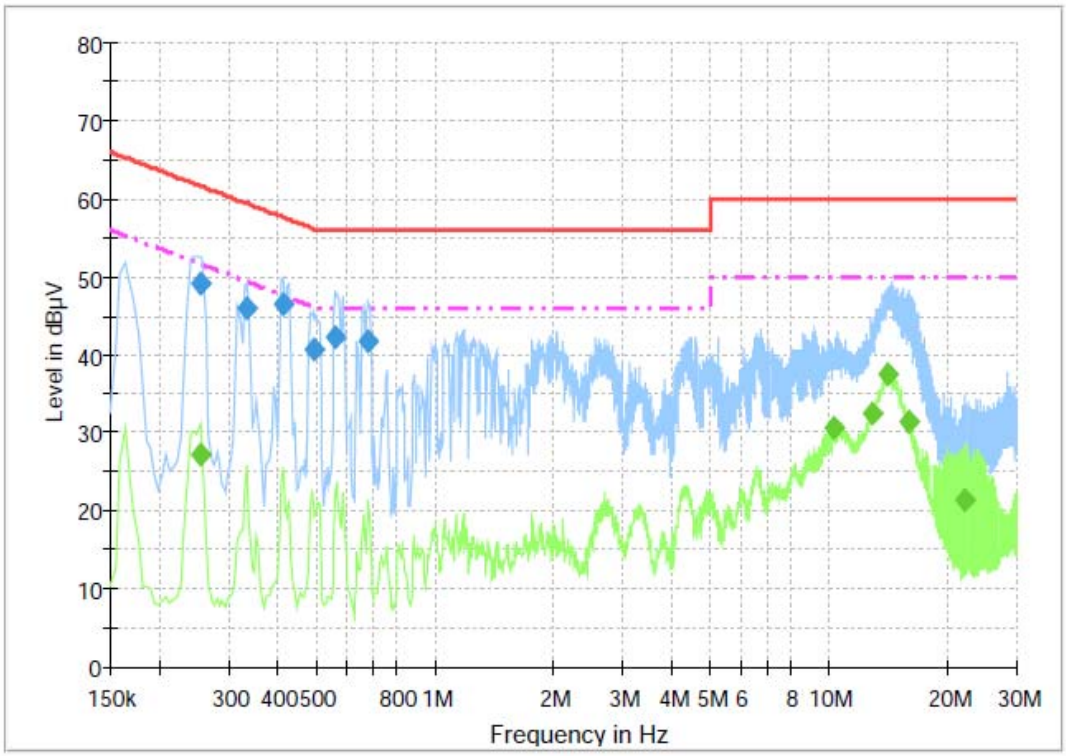
[HOT : AC 120 V]



[NEUTRAL : AC 0 V]



2.3 Radiated emissions (Section 15.209)

Test Location

☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☐ 3 m SAC (test distance : 3 m)

1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
2) In the frequency rage above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

The spectrum analyzer is set to:

Frequency Range = 9 kHz ~ 1 GHz
RBW = 100 kHz for f < 1 GHz, 9 kHz for f < 30 MHz
VBW ≥ RBW
Sweep = Auto

Limit

- **15.209(a)**

Frequency [MHz]	Field Strength [uV/m]	Measurement Distance [Meters]
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :
1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

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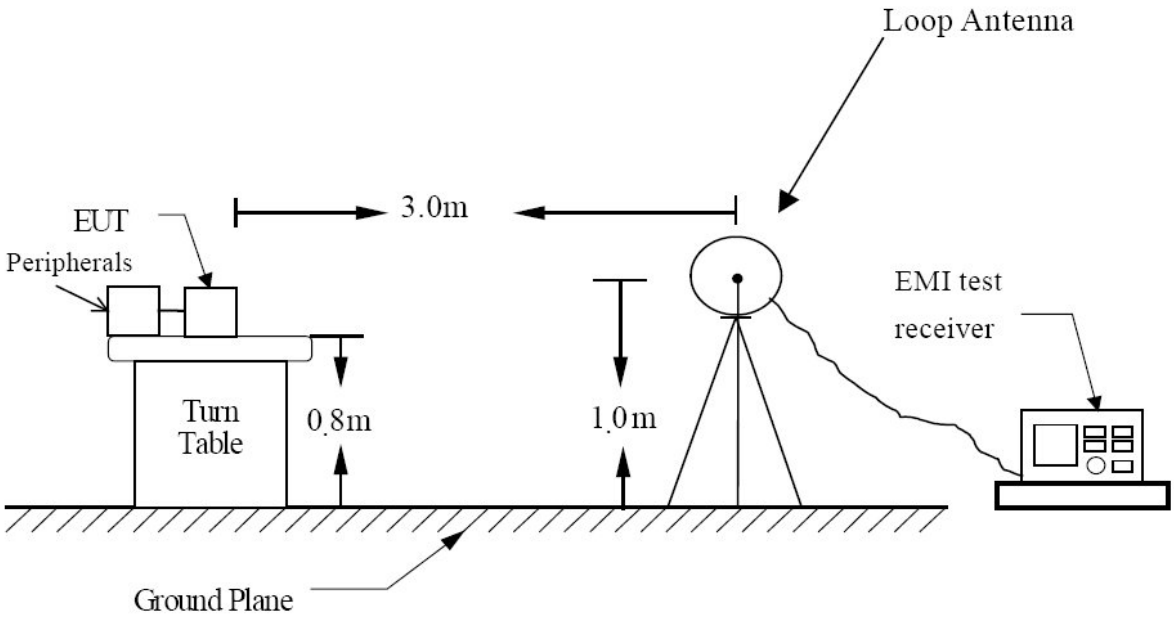
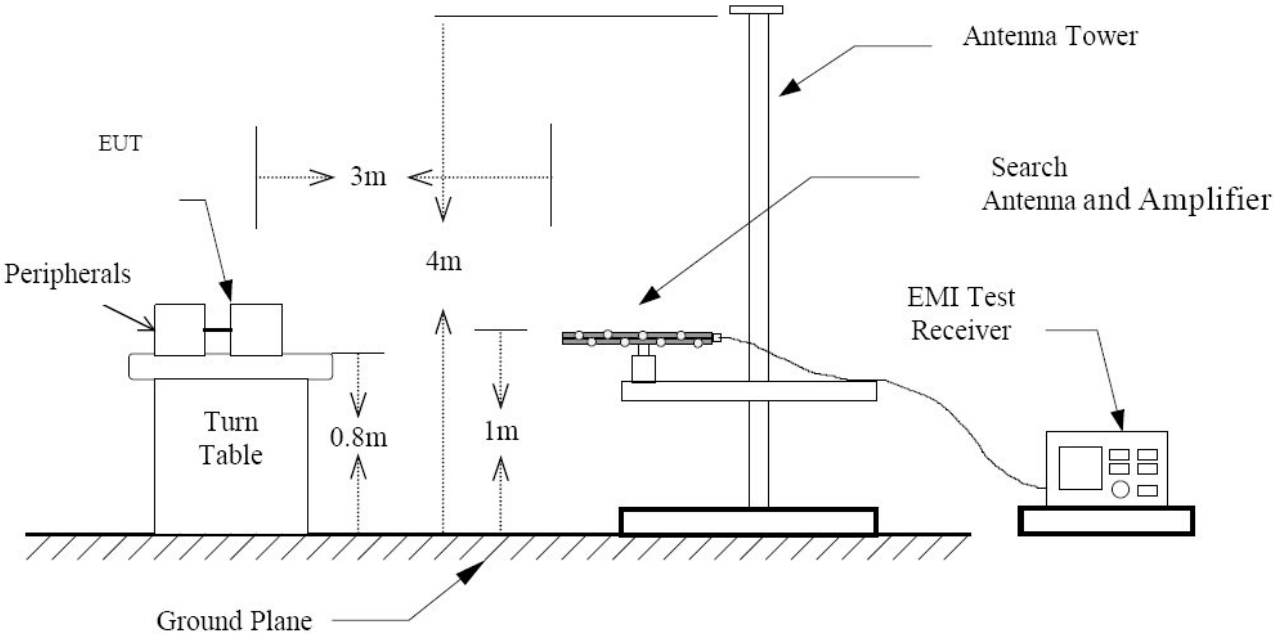
Test Setup:

1) For field strength of emissions from 9 kHz to 30 MHz



2) For field strength of emissions from 30 MHz to 1 GHz



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Test Results

EUT	Wireless Charger	Model	PWC-WT508
Frequency Range	9 kHz ~ 1 GHz	Test mode	TX

The requirements are:

☒ Complies

Test Data

Fundamental Test Data

Operating Frequency : 112 kHz

Freq. (kHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Distance Correction	Result (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detect Mode
115.59	64.18	19.60	5.71	-80	9.49	46.34	36.85	Peak

Operating Frequency : 157.5 kHz

Freq. (kHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Distance Correction	Result (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detect Mode
153.40	53.34	19.60	5.71	-80	-1.35	43.89	45.24	Peak

Operating Frequency : 205 kHz

Freq. (kHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Distance Correction	Result (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detect Mode
206.10	41.54	19.60	5.71	-80	-13.15	41.32	54.47	Peak

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Spurious Test Data

Operating Frequency : 112 kHz

Freq. (kHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Distance Correction	Result (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detect Mode
347.20	37.15	19.31	5.8	-80	-17.74	36.79	54.53	Peak

Operating Frequency : 157.5 kHz

Freq. (kHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Distance Correction	Result (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detect Mode
461.10	53.34	19.44	5.8	-80	-1.42	34.32	35.74	Peak

Operating Frequency : 205 kHz

Freq. (kHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Distance Correction	Result (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)	Detect Mode
291.20	22.54	19.37	5.8	-80	-32.29	38.32	70.61	Peak

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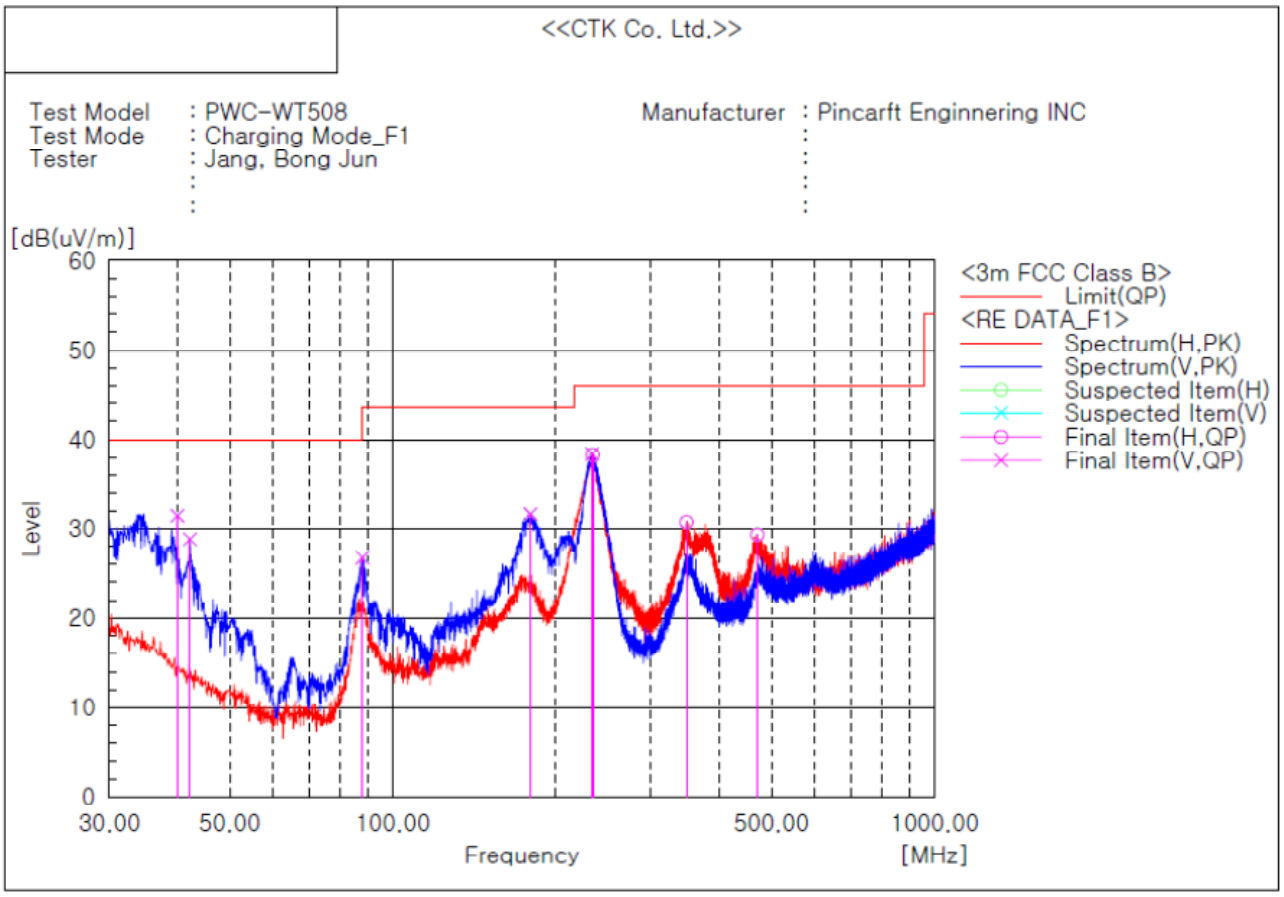
[Operating Frequency : 112 kHz]



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	40.064	V	42.6	-11.2	31.4	40.0	8.6	399.0	38.0
2	42.246	V	41.1	-12.3	28.8	40.0	11.2	101.0	322.0
3	87.958	V	41.7	-15.0	26.7	40.0	13.3	101.0	4.0
4	179.501	V	45.7	-14.1	31.6	43.5	11.9	101.0	0.0
5	233.336	V	49.6	-11.2	38.4	46.0	7.6	101.0	4.0
6	233.943	H	49.4	-11.1	38.3	46.0	7.7	100.0	65.0
7	348.524	H	37.6	-6.9	30.7	46.0	15.3	100.0	91.0
8	471.107	H	32.0	-2.7	29.3	46.0	16.7	100.0	143.0

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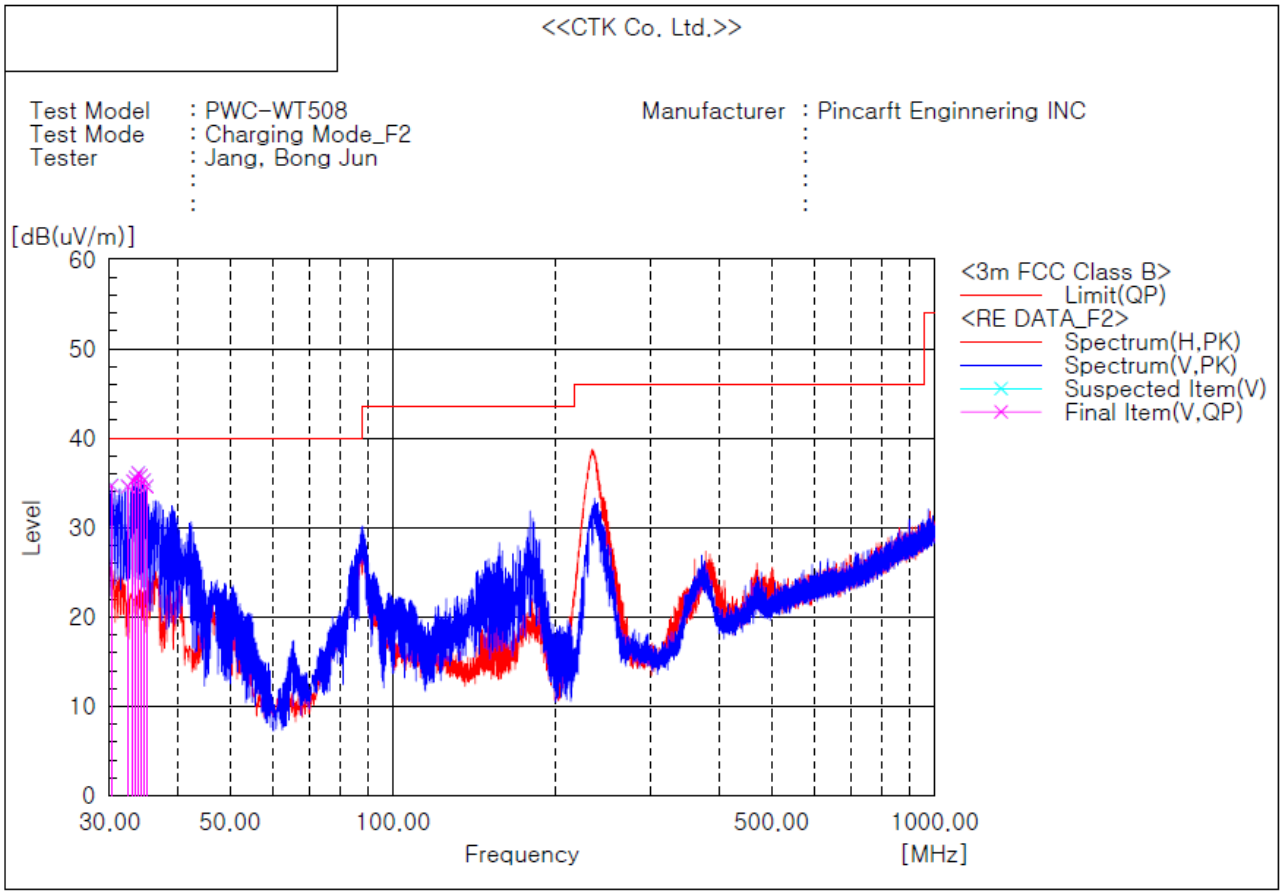
[Operating Frequency : 157.5 kHz]



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	30.243	V	41.9	-7.2	34.7	40.0	5.3	100.0	65.0
2	32.425	V	42.6	-8.0	34.6	40.0	5.4	100.0	0.0
3	33.153	V	43.5	-8.3	35.2	40.0	4.8	100.0	0.0
4	33.516	V	44.1	-8.5	35.6	40.0	4.4	100.0	39.0
5	33.880	V	44.7	-8.6	36.1	40.0	3.9	100.0	39.0
6	34.244	V	44.5	-8.7	35.8	40.0	4.2	100.0	39.0
7	34.729	V	44.2	-8.9	35.3	40.0	4.7	100.0	65.0
8	35.093	V	43.7	-9.1	34.6	40.0	5.4	100.0	300.0

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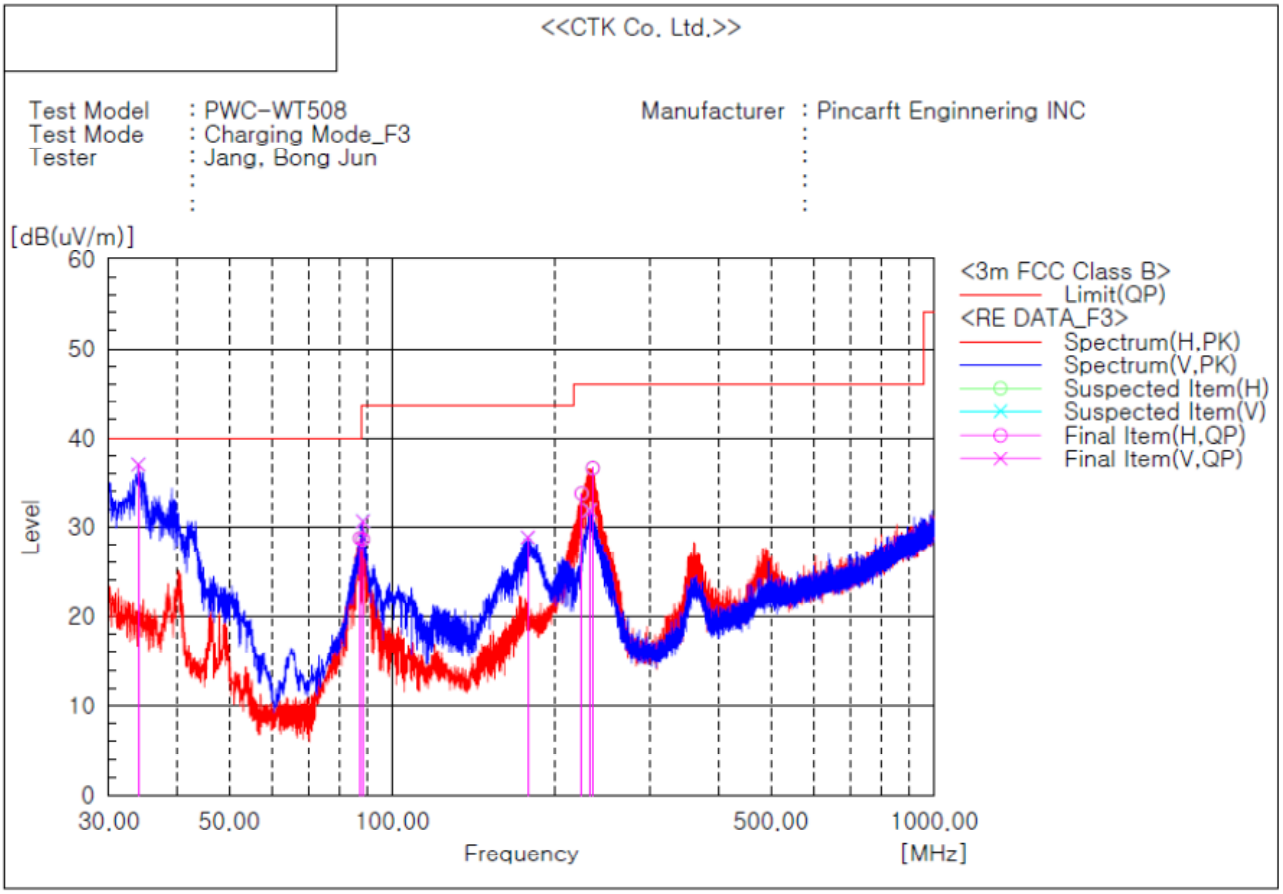
[Operating Frequency : 205 kHz]



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	34.001	V	45.6	-8.6	37.0	40.0	3.0	101.0	322.0
2	87.230	H	43.9	-15.2	28.7	40.0	11.3	200.0	322.0
3	88.321	V	45.6	-15.0	30.6	43.5	12.9	101.0	269.0
4	88.321	H	43.6	-15.0	28.6	43.5	14.9	200.0	0.0
5	178.046	V	42.9	-14.1	28.8	43.5	14.7	101.0	34.0
6	223.636	H	46.1	-12.3	33.8	46.0	12.2	100.0	357.0
7	231.518	V	43.2	-11.4	31.8	46.0	14.2	101.0	34.0
8	234.549	H	47.7	-11.1	36.6	46.0	9.4	100.0	38.0

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APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (yy/mm/dd)	Next Cal.Date (yy/mm/dd)	Cal. Interval
1	EMI Test Receiver	Rohde & Schwarz	ESCI7	100032	17-02-02	18-02-02	1 Year
2	LISN	Rohde & Schwarz	ENV216	101235	17-05-09	18-05-09	1 Year
3	EMI Test Receiver	Rohde & Schwarz	ESCI7	100814	16-11-01	17-11-01	1 Year
4	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	16-05-16	18-05-16	2 Year
5	Bilog Antenna	Schaffner	CBL6111C	2551	16-05-13	18-05-13	2 Year
6	6dB Attenuator	Rohde & Schwarz	DNF	272.4112.50-2	16-11-01	17-11-01	1 Year
7	AMPLIFIER	Sonoma Instrument Co.	310	291721	17-02-02	18-02-02	1 Year
8	EMI Test Receiver	Rohde & Schwarz	ESCI7	100032	17-02-02	18-02-02	1 Year