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TEST REPORT

of

FCC Part 15 Subpart C §15.209

FCC ID: 2AJKSKSC100H

Equipment Under Test: WIRELESS CHARGER

Model Name : KSC-100H

Applicant : Kum Oh Electronics Co., Ltd.

Manufacturer : Kum Oh Electronics Co., Ltd.

: 2017.06.29 Date of Receipt

Date of Test(s) : 2017.07.12 ~ 2017.07.18

Date of Issue : 2017.07.25

In the configuration tested, the EUT complied with the standards specified above.

Date: 2017.07.25

Jinhyoung Cho

Harim Lee

Technical Manager:

Tested By:

Date:

2017.07.25

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1. General information

1.1. Testing laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- Wireless Div. 2FL, 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.

Phone No. : +82 31 688 0901 Fax No. : +82 31 688 0921

1.2. Details of applicant

Applicant Kum Oh Electronics Co., Ltd.

Address 35, Gilju-ro 444beon-gil, Wonmi-gu, Bucheon-si, Gyeonggi-do, 14556, Korea

Contact Person Park, Chan-Hong Phone No. +82 10 4407 6607

1.3. Description of EUT

Kind of Product	WIRELESS CHARGER				
Model Name	KSC-100H				
Power Supply	DC 5.0 V				
Frequency Range	120 kHz ~ 190 kHz				
Operating Temperature	-20 °C ~ 60 °C				
Antenna Type	Inductive loop coil antenna				
H/W Version	Rev0.5A				
S/W Version	0923				



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1.4. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Spectrum Analyzer	R&S	FSV30	100768	Mar. 20, 2017	Annual	Mar. 20, 2018
Signal Generator	R&S	SMBV100A	255834	Jun. 15, 2017	Annual	Jun. 15, 2018
DC Power Supply	R&S	HMP2020	019922876	Apr. 26, 2017	Annual	Apr. 26, 2018
Test Receiver	R&S	ESU26	100109	Feb. 17, 2017	Annual	Feb. 17, 2018
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 19, 2015	Biennial	Aug. 19, 2017
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Shield Room	SY Corporation	$L \times W \times H$ (6.5 m × 3.5 m × 3.5 m)	N/A	N.C.R.	N/A	N.C.R.
Test Receiver	R&S	ESCI 7	100911	Feb. 22, 2017	Annual	Feb. 22, 2018
Two-Line V-Network	R&S	ENV216	100190	Dec. 21, 2016	Annual	Dec. 21, 2017
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/3 8330516/L	N. C. R.	N/A	N.C.R.

▶ Support equipment

Description	Manufacturer	Model	FCC ID	
Smart Wearable Device	Samsung Electronics Co., Ltd.	SM-R765U	A3LSMR765U	

1.5. Sample calculation

Where relevant, the following sample calculation is provided:

Field strength level ($dB\mu V/m$) = Measured level ($dB\mu V$) + Antenna factor (dB) + Cable loss (dB)



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1.6. Worst case of test configurations

In order to check all kinds of possible configurations, EUT was evaluated with appropriate client and under each charging condition as below table.

EUT configuration	Description
Charging Mode	Less than 1 % of battery
with client device (Model : SM-R765U,	Less than 50 % of battery
FCC ID : A3LSMR765U)	100 % full charging of battery

1.7. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart C §15.209								
Section in FCC Part 15 Subpart C	Test Item	Result						
15.209	Radiated emission, Spurious Emission and Field Strength of Fundamental	Complied						
2.1049	20 dB Bandwidth	Complied						
15.207	Transmitter AC Power Line Conducted Emission	Complied						

Remark;

Due to the frequency range of the device (120 kHz) is less than 1 MHz, so we couldn't perform Highest and lowest frequency according to 15.31 requirement.

1.8. Test Report Revision

Revision	Report number	Date of Issue	Description
0	F690501/RF-RTL011647	2017.07.21	Initial
1	F690501/RF-RTL011647-1	2017.07.25	Added a remark regarding testing frequency.

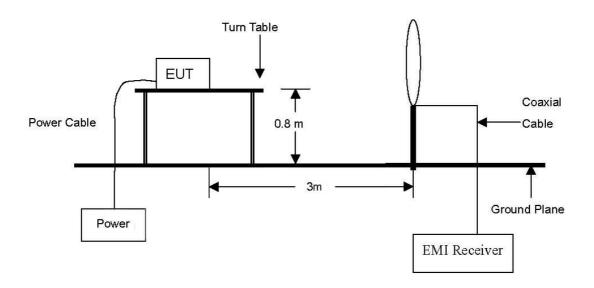


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2. Field Strength of Fundamental and Spurious Emission

2.1. Test Setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 klb to 30 Mb Emissions.



2.2. Limit

2.2.1. Radiated emission limits, general requirements

According to §15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (쌘)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

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

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2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates of ANSI C63.10:2013.

2.3.1. Test Procedures for emission from 9 kb to 30 kb

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- d. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 meter open field test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01 v01.



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2.4. Field Strength of Fundamental Test Result

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical. The field strength of spurious emission was measured in one orthogonal EUT position (x-axis). Definition of DUT for a orthogonal plane was described in the test setup photo.

Radiated Emissions			Ant.		Correction Total		al	Limit		
Frequency (畑)	Reading (dBμV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dΒμV/m) at 3 m	Actual (dBμV/m) at 300 m	Limit (dΒμV/m) at 300 m	Margin (dB)	
Charging mod	Charging mode with client (less than 1 % battery status)									
0.177	27.20	Average	Η	19.56	0.08	46.84	-33.16	22.64	55.80	
Charging mod	de with client	(less than	50 % b	attery stat	tus)					
0.176	27.20	Average	Н	19.56	0.08	46.84	-33.16	22.69	55.85	
Charging mode with client (100 % battery status)										
0.176	27.20	Average	Н	19.56	0.08	46.84	-33.16	22.69	55.85	

Note;

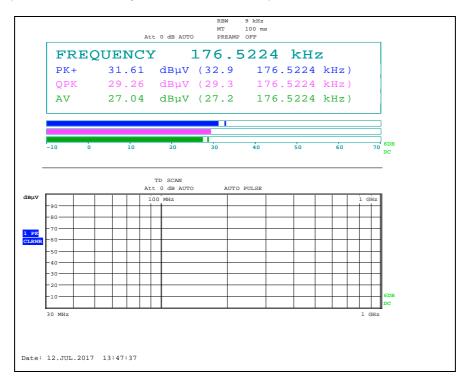
- 1. According to §15.31 (f)(2) 300 m Result ($dB\mu V/m$) = 3 m Result ($dB\mu V/m$) 40log(300/3) ($dB\mu V/m$).
- 2. According to §15.209 (d), the measurements were tested by using Quasi peak detector except for the frequency bands $9-90~\mathrm{kHz}$, $110-490~\mathrm{kHz}$ and above 1 GHz in these three bands on measurements employing an average detector.
- 3. The limit above was calculated based on table of §15.209 (a).



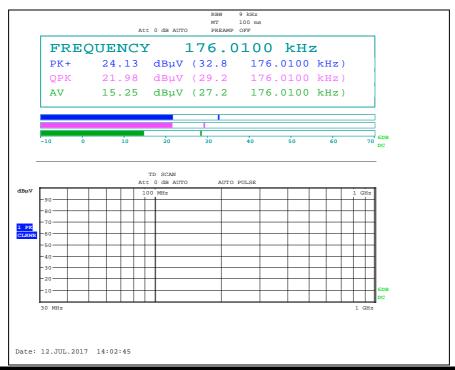
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Test plots

Charging mode (less than 1 % battery status of client device)



Charging mode (less than 50 % battery status of client device)



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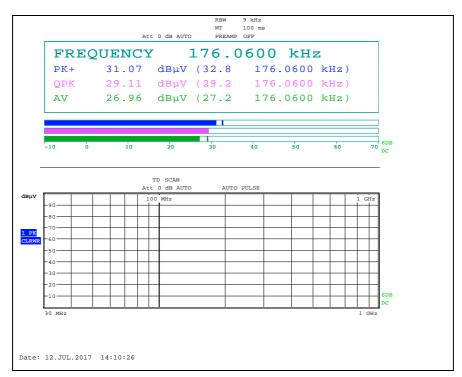
 SGS Korea Co., Ltd. (Gunpo Laboratory)
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 RTT5041-19(2017.07.10)(0)
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 A4(210 mm x 297 mm)



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Charging mode (100 % battery status of client device)





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2.5. Spurious Emission Test Result

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Charging mode with client device (less than 1 % battery status of client device)

- Band Edge

Radiated Emissions			Ant.	Corre Fact		Tot	al	Lin	nit
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dΒμV/m) at 3 m	Actual (dBμV/m) at 300 m	Limit (dBμV/m) at 300 m	Margin (dB)
0.091	19.50	Quasi Peak	Н	19.62	0.03	39.15	-40.85	28.42	69.27

-Spurious

Radiated Emissions		Ant.	Correction Factors		Total		Limit			
Frequency (艦)	Reading (dBµV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dΒμV/m) at 3 m	Actual (dBμV/m) at 300 m	Limit (dBμV/m) at 300 m	Margin (dB)	
0.069	25.30	Average	Н	19.66	0.02	44.98	-35.02	30.83	65.85	
0.139	13.50	Average	Н	19.58	0.06	33.14	-46.86	24.74	71.60	
0.199	13.90	Average	Н	19.55	0.10	33.55	-46.45	21.63	68.08	

Radiated Emissions		Ant.	Correction Factors		Total		Limit		
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 30 m	Limit (dBμV/m) at 30 m	Margin (dB)
2.325	7.40	Quasi Peak	Н	19.33	0.12	26.85	-13.15	29.54	42.69
Above 3.000	Not detected	-	-	-	-	-	-	-	-



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Charging mode with client device (less than 50 % battery status of client device)

- Band Edge

Radiated Emissions			Ant.	Correction Factors		Total		Limit				
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m	Limit (dBμV/m) at 300 m	Margin (dB)			
0.091	12.50	Quasi Peak	Н	19.62	0.03	32.15	-47.85	28.42	76.27			

-Spurious

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (쌘)	Reading (dBμV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dBµV/m) at 3 m	Actual (dBμV/m) at 300 m	Limit (dBµV/m) at 300 m	Margin (dB)
0.069	24.60	Average	Н	19.66	0.02	44.28	-35.72	30.83	66.55
0.137	13.90	Average	Η	19.58	0.06	33.54	-46.46	24.87	71.33
0.198	11.60	Average	Н	19.55	0.10	31.25	-48.75	21.67	70.42

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (Mb)	Reading (dBµV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 30 m	Limit (dBμV/m) at 30 m	Margin (dB)
2.347	6.70	Quasi Peak	Н	19.33	0.12	26.15	-13.85	29.54	43.39
Above 3.000	Not detected	-	-	-	-	-	-	-	-



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Charging mode with client device (100 % battery status of client device)

- Band Edge

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (船)	Reading (dBμV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m	Limit (dBμV/m) at 300 m	Margin (dB)
0.091	12.70	Quasi Peak	Н	19.62	0.03	32.35	-47.65	28.42	76.07

-Spurious

- Opanicae												
Radiated Emissions			Ant.	Correction Factors		Tot	al	Limit				
Frequency (雕)	Reading (dBμV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m	Actual (dBμV/m) at 300 m	Margin (dB)			
0.068	23.00	Average	Н	19.66	0.02	42.68	-37.32	30.95	68.27			
0.136	13.20	Average	Н	19.58	0.06	32.84	-47.16	24.93	72.09			
0.197	13.50	Average	Н	19.55	0.10	33.15	-46.85	21.71	68.56			

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (Mb)	Reading (dBµV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 30 m	Limit (dBµV/m) at 30 m	Margin (dB)
2.302	7.00	Quasi Peak	Н	19.33	0.12	26.45	-13.55	29.54	43.09
Above 3.000	Not detected	-	-	-	-	-	-	-	-

Note:

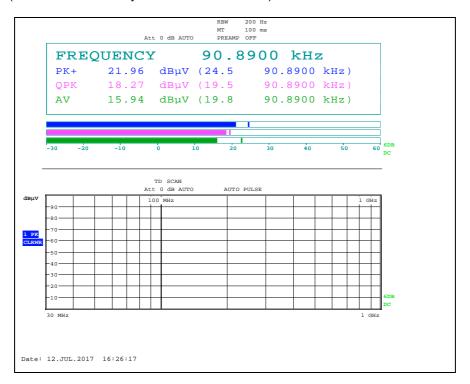
- 1. According to §15.31 (f)(2)
 - 300 m Result ($dB\mu V/m$) = 3 m Result ($dB\mu V/m$) 40log(300/3) ($dB\mu V/m$)
 - 30 m Result ($dB\mu V/m$) = 3 m Result ($dB\mu V/m$) 40log(30/3) ($dB\mu V/m$)
- 2. According to field strength table of general requirement in §15.209 (a), field strength limits below 1.705 Mb were calculated as below.
 - 9 kHz to 490 kHz : $20\log(2\,400\,/\,\text{F}\,\text{(kHz)})$ at $300\,\text{m}\,\text{(dB}\mu\text{V/m)}$
- 3. According to §15.209 (d), the measurements were tested by using Quasi peak detector except for the frequency bands $9-90\,$ kHz, $110-490\,$ kHz and above 1 GHz in these three bands on measurements employing an average detector.



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Test plots (Band Edge)

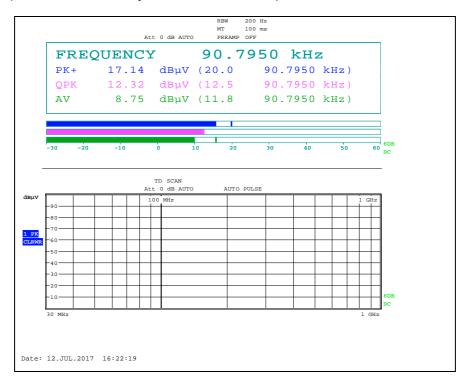
Charging mode (less than 1 % battery status of client device)





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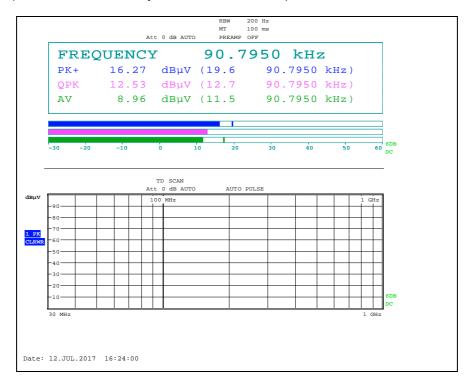
Charging mode (less than 50 % battery status of client device)





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Charging mode (less than 100 % battery status of client device)



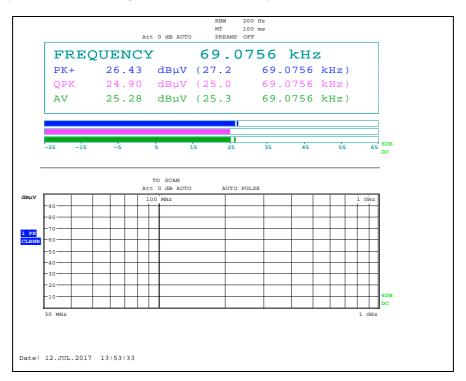


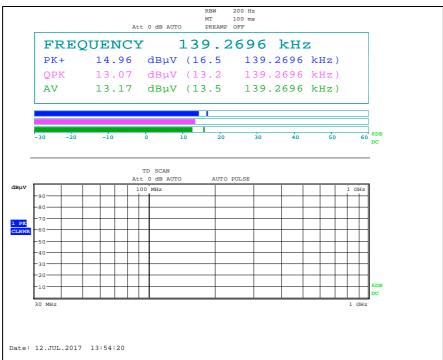
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Test plots (Spurious)

RTT5041-19(2017.07.10)(0)

Charging mode (less than 1 % battery status of client device)





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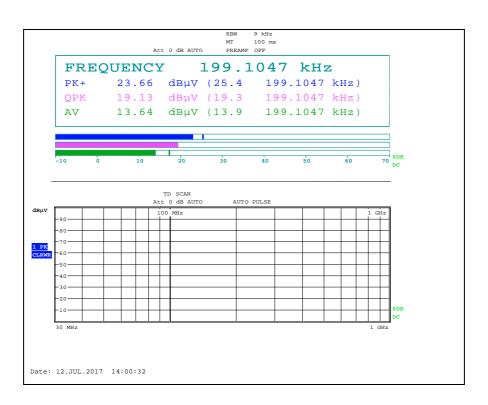
Tel. +82 31 428 5700 / Fax. +82 31 427 2370

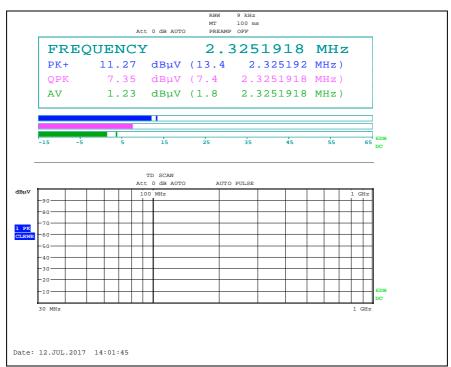
A4(210 mm × 297 mm)

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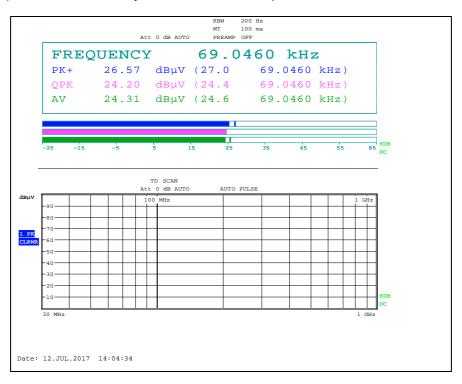


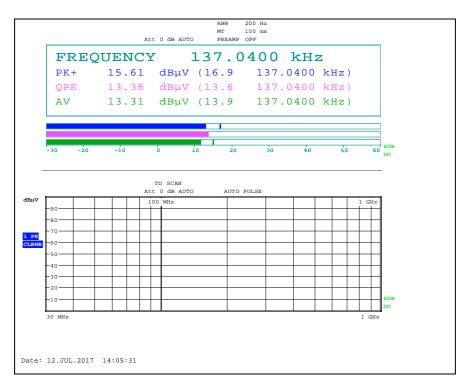




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Charging mode (less than 50 % battery status of client device)



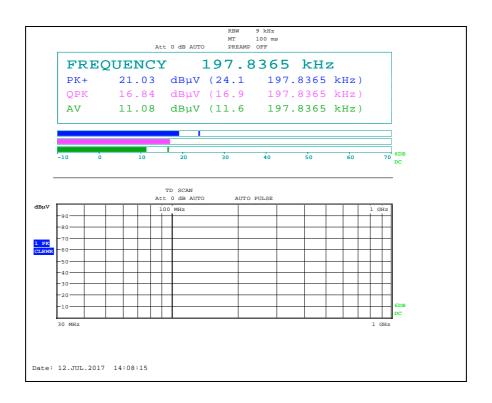


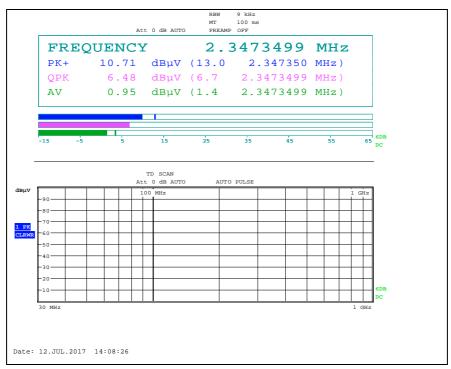
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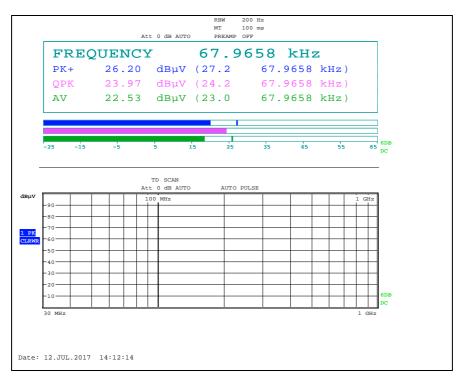


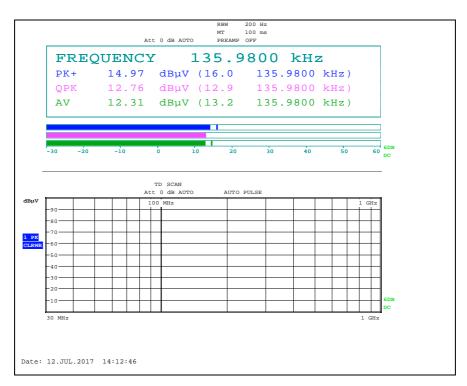




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Charging mode (100 % battery status of client device)



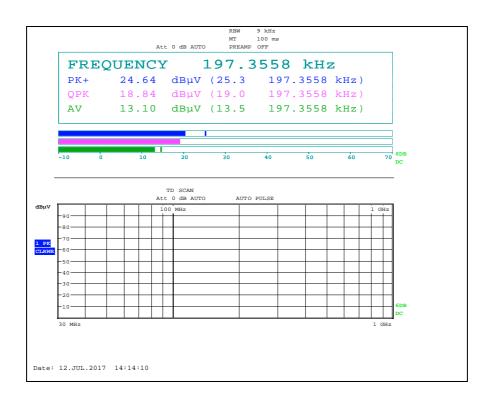


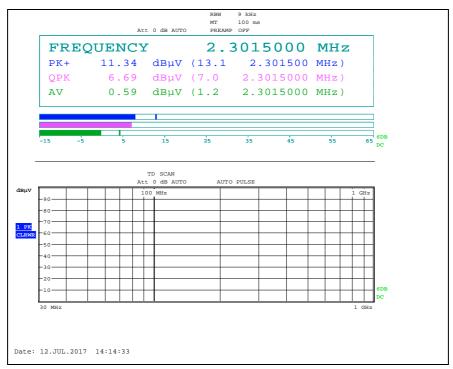
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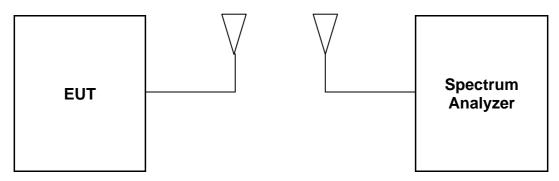




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3. 20 dB Bandwidth

3.1. Test Setup



3.2. Limit

None; for reporting purposed only

3.3. Test Procedure

- a. Span = set to capture all products of the modulation process, including the emission skirts. RBW = in the range of 1 % to 5 % of the 20 dB Bandwidth, VBW = approximately 3 x RBW, Sweep = auto, Detector = peak, Trace = max hold.
- b. The marker-to-peak function to set the mark to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is 20 dB bandwidth of the emission.



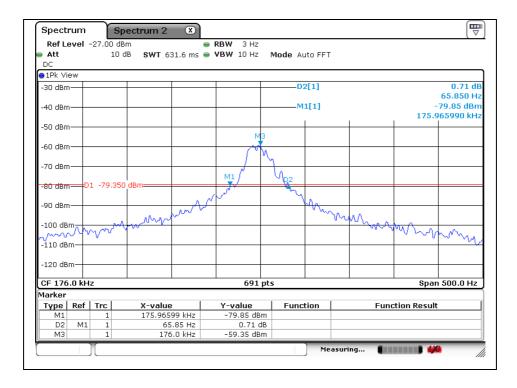
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3.4. Test Result

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

EUT status	20 dB Bandwidth (Hz)	Limit
With client device (100 % battery status of client device)	65.85	Reporting proposed only

20 dB Bandwidth

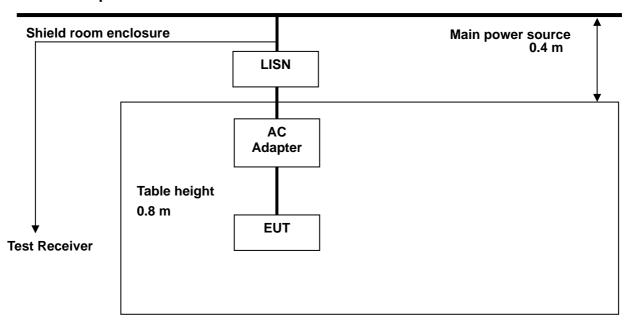




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4. Transmitter AC Power Line Conducted Emission

4.1. Test Setup



4.2. Limit

According to §15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H /50 ohm line impedance stabilization network(LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Fraguency of Emission (IIII-)	Conducted limit (dBμV)					
Frequency of Emission (脈)	Quasi-peak	Average				
0.15 - 0.50	66 - 56*	56 - 46*				
0.50 - 5.00	56	46				
5.00 – 30.0	60	50				

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



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4.3. Test Procedures

AC conducted emissions from the EUT were measured according to the dictates of ANSI C63.10:2013

- 1. The test procedure is performed in a 6.5 m × 3.5 m× 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W)x 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.



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4.4. Test Results

The following table shows the highest levels of conducted emissions on both phase of Hot and Neutral line.

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

: 0.15 MHz - 30 MHzFrequency range

Measured Bandwidth 9 kHz

Charging mode with Client device (less than 1 % battery status of client device)

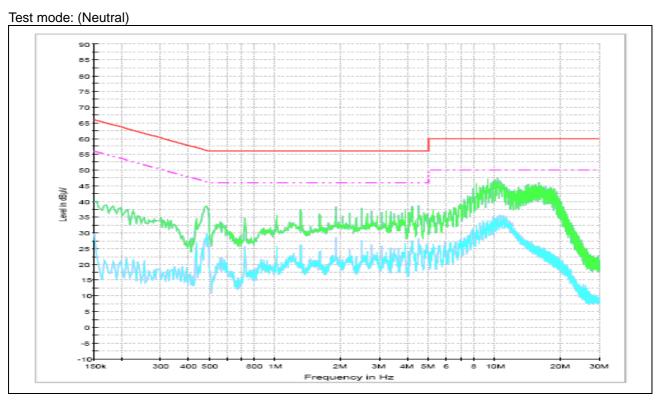
FREQ.	LEVEL	(dB _t W)	LINE	LIMIT(dBμV)	MARG	IN(dB)
(MHz)	Q-Peak	Average	LINE	Q-Peak	Average	Q-Peak	Average
0.49	35.60	26.70	N	56.17	46.17	20.57	19.47
0.73	31.50	25.20	N	56.00	46.00	24.50	20.80
1.89	35.20	28.10	N	56.00	46.00	20.80	17.90
4.52	36.30	27.70	N	56.00	46.00	19.70	18.30
10.35	36.20	27.80	N	60.00	50.00	23.80	22.20
18.07	37.60	21.90	N	60.00	50.00	22.40	28.10
0.15	30.10	14.90	Н	66.00	56.00	35.90	41.10
0.49	28.00	17.80	Н	56.17	46.17	28.17	28.37
1.07	17.60	10.50	Н	56.00	46.00	38.40	35.50
2.06	19.80	11.00	Н	56.00	46.00	36.20	35.00
4.31	22.20	15.80	Н	56.00	46.00	33.80	30.20
7.19	33.00	25.10	Н	60.00	50.00	27.00	24.90

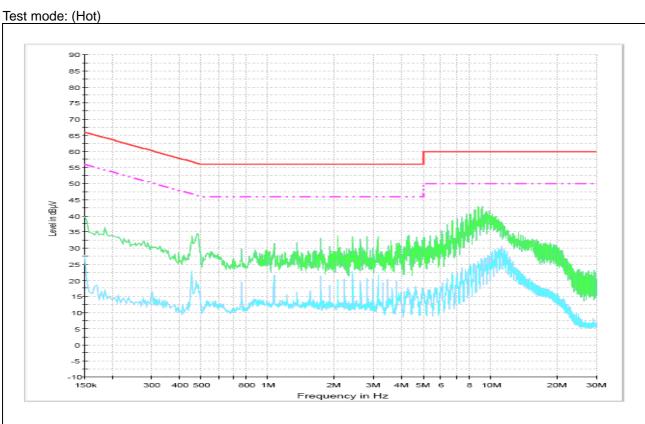
Note:

- 1. Line (H): Hot, Line (N): Neutral
- 2. The limit for Class B device(s) from 150 \(\mathref{M} \mu \) to 30 \(\mathref{M} \mu \) are specified in Section of the Title 47 CFR.
- 3. Traces shown in plot were made by using a peak detector and average detector.
- 4. Deviations to the Specifications: None.



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Charging mode with Client device (less than 50 % battery status of client device)

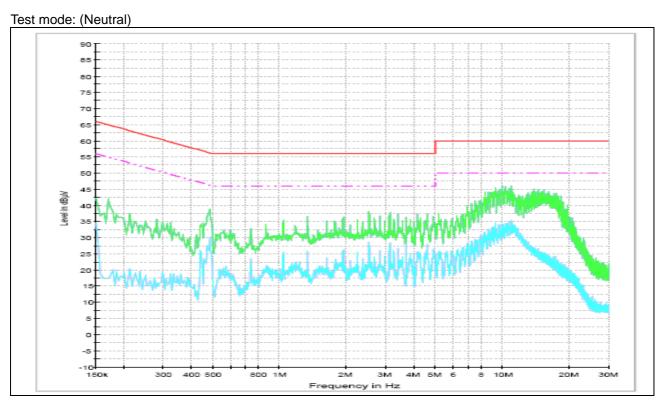
FREQ.	LEVEL(dB≠V)		LINE	LIMIT(dBμV)	MARG	IN(dB)
(MHz)	Q-Peak	Average	LINE	Q-Peak	Average	Q-Peak	Average
0.17	31.10	16.90	N	64.96	54.96	33.86	38.06
0.49	33.40	26.60	N	56.17	46.17	22.77	19.57
1.34	24.80	15.70	N	56.00	46.00	31.20	30.30
2.53	27.40	21.00	N	56.00	46.00	28.60	25.00
9.98	40.20	31.10	N	60.00	50.00	19.80	18.90
14.45	36.40	24.00	N	60.00	50.00	23.60	26.00
0.15	36.90	29.90	Н	66.00	56.00	29.10	26.10
0.26	25.40	12.40	Н	61.43	51.43	36.03	39.03
0.48	29.10	18.50	Н	56.34	46.34	27.24	27.84
1.35	19.50	14.10	Н	56.00	46.00	36.50	31.90
4.34	23.00	15.60	Н	56.00	46.00	33.00	30.40
8.85	34.00	24.80	Н	60.00	50.00	26.00	25.20

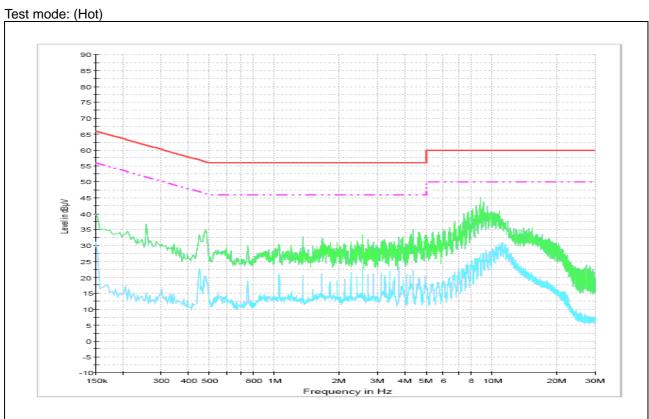
Note;

- 1. Line (H): Hot, Line (N): Neutral
- The limit for Class B device(s) from 150 kllz to 30 Mlz are specified in Section of the Title 47 CFR.
- Traces shown in plot were made by using a peak detector and average detector.
- 4. Deviations to the Specifications: None.



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Charging mode with Client device (100 % battery status of client device)

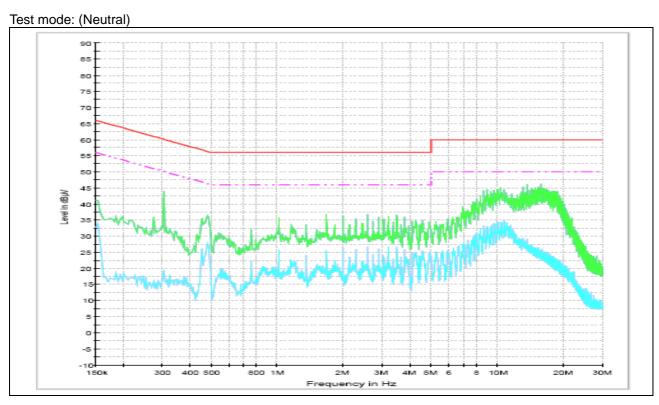
FREQ.	LEVEL	(dB ₄ W)	LINE	LIMIT(dBμV)	MARG	IN(dB)
(MHz)	Q-Peak	Average	LINE	Q-Peak	Average	Q-Peak	Average
0.31	28.40	16.60	N	59.97	49.97	31.57	33.37
0.48	35.60	26.80	N	56.34	46.34	20.74	19.54
1.67	28.30	18.30	N	56.00	46.00	27.70	27.70
3.51	30.40	22.80	N	56.00	46.00	25.60	23.20
10.09	39.40	31.10	N	60.00	50.00	20.60	18.90
15.73	39.10	24.60	N	60.00	50.00	20.90	25.40
0.30	26.40	15.70	Н	60.24	50.24	33.84	34.54
0.48	29.50	17.90	Н	56.34	46.34	26.84	28.44
1.30	21.00	13.40	Н	56.00	46.00	35.00	32.60
3.90	23.80	16.80	Н	56.00	46.00	32.20	29.20
8.80	33.70	25.90	Н	60.00	50.00	26.30	24.10
14.39	27.50	21.10	Н	60.00	50.00	32.50	28.90

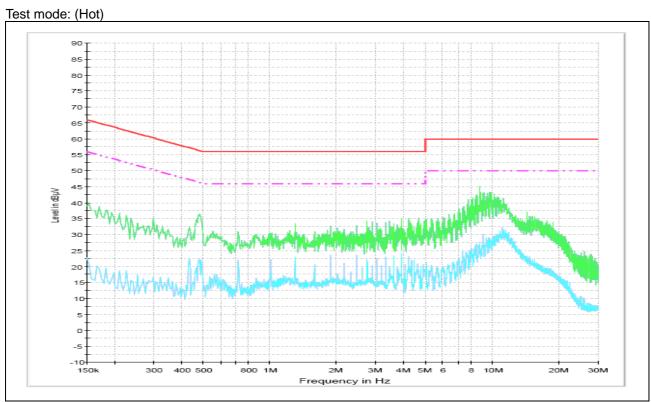
Note;

- 1. Line (H): Hot, Line (N): Neutral
- The limit for Class B device(s) from 150 kllz to 30 Mlz are specified in Section of the Title 47 CFR.
- Traces shown in plot were made by using a peak detector and average detector.
- 4. Deviations to the Specifications: None.



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- End of the Test Report -