

TEST REPORT

OF

FCC Part 15 Subpart C §15.209

FCC ID : ZNF-WCDH100

Equipment Under Test : Wireless Charger
Model Name : WCD-H100
Applicant : LG Electronics MobileComm USA. Inc.
Manufacturer : LG Innotek Yantai Co., Ltd.
Date of Receipt : 2016.09.22
Date of Test(s) : 2016.10.03 ~ 2016.11.22
Date of Issue : 2016.11.28

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

Tested By:



Youngmin Park

Date:

2016.11.28

Technical
Manager:

Alvin Kim

Date:

2016.11.28

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Table of contents

1. General information -----	3
2. Field Strength of Fundamental and Spurious Emission -----	7
3. 20 dB Bandwidth -----	26
4. Transmitter AC Power Line Conducted Emission -----	28

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RTT5041-20(2015.10.01)(3)

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

A4(210 mm x 297 mm)

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 : LG Electronics MobileComm USA. Inc.

Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States

Contact Person : Lee, Tae-Sung

Phone No. : +82 2 2033 1166

1.3. Description of EUT

Kind of Product	Wireless Charger
Model Name	WCD-H100
Power Supply	DC 5.0 V
Frequency Range	150 kHz ~ 240 kHz
Antenna Type	Inductive loop coil antenna
H/W Version	1.0
S/W Version	1.0

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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	103210	Dec. 23, 2015	Annual	Dec. 23, 2016
Signal Generator	R&S	SMBV100A	255834	Jun. 20, 2016	Annual	Jun. 20, 2017
DC Power Supply	R&S	HMP2020	019922876	Apr. 26, 2016	Annual	Apr. 26, 2017
Test Receiver	R&S	ESU26	100109	Mar. 07, 2016	Annual	Mar. 07, 2017
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 19, 2015	Biennial	Aug. 19, 2017
Turn Table	INNCO systems	CONTROLLER CO3000	N/A	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L x W x H (9.6 m x 6.4 m x 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Shield Room	SY Corporation	L x W x H (6.5 m x 3.5 m x 3.5 m)	N/A	N.C.R.	N/A	N.C.R.
Mobile Test Unit	R&S	CMW 500	144034	Feb. 29, 2016	Annual	Feb. 28, 2017
Test Receiver	R&S	ESCI 7	100911	Dec. 22, 2015	Annual	Dec. 22, 2016
Two-Line V-Network	R&S	ENV216	100190	Dec. 21, 2015	Annual	Dec. 21, 2016

► Support equipment

Description	Manufacturer	Model	FCC ID
Smartwatch	LG Electronics Inc.	W280	ZNFW280

1.5. Sample calculation

Where relevant, the following sample calculation is provided:

Field strength level (dB μ V/m) = Measured level (dB μ 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 with client device (Model : W280, FCC ID : ZNFW280)	Less than 1 % of battery
	Less than 50 % of battery
	100 % full charging of battery

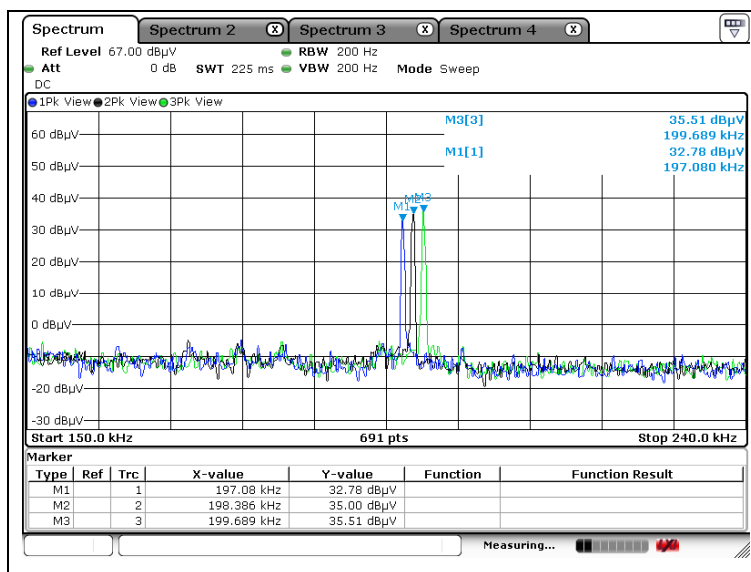
EUT setup configuration:

- The EUT can be capable of charging one client at a time.
- The measurement is performed with a typical WPT client device on the power transfer zone.

Operating configurations:

Client device (W280)

- While the wireless charger is charging with the client device turned off. (Trace#1 "M1")
 - While the client device was in airplane mode (Trace#2 "M2")
 - While the client device was connected to an active data connection (Trace#3 "M3")
- The device was tested under all modes and bands like GSM, WCDMA and LTE.
In the result, **GSM Cellular / GPRS / 1 TX** was found in **High channel**.



Plot – fundamental emission comparison

- The level of Trace#3 was higher than Trace#1 and 2. So Trace#3 was selected.
- Trace#3 as **GSM Cellular / GPRS / 1 TX** which was found in **High channel** should be tested with the client device as a worst case.

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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

1.8. Test Report Revision

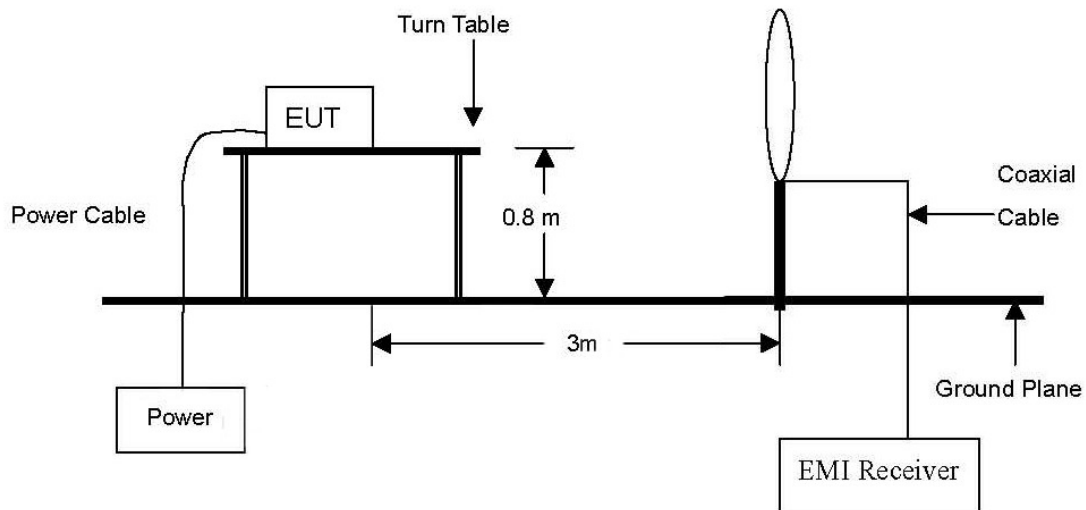
Revision	Report number	Date of Issue	Description
0	F690501/RF-RTL010594	2016.11.28	Initial

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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 kHz to 30 MHz 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 (MHz)	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 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. 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 kHz to 30 MHz

- 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.
- 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.
- 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.
- 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 937606.

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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 Factors		Total		Limit	
Frequency (MHz)	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)
Charging mode with client (less than 1 % battery status)									
0.185	65.80	Average	H	19.29	0.11	85.20	5.20	22.26	17.06
Charging mode with client (less than 50 % battery status)									
0.200	63.50	Average	H	19.25	0.13	82.88	2.88	21.58	18.70
Charging mode with client (100 % battery status)									
0.190	65.30	Average	H	19.28	0.12	84.70	4.70	22.03	17.33

Note;

- According to §15.31 (f)(2) 300 m Result(dBμV/m) = 3 m Result(dBμV/m) - 40log(300/3) (dBμV/m).
- 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.
- The limit above was calculated based on table of §15.209 (a).

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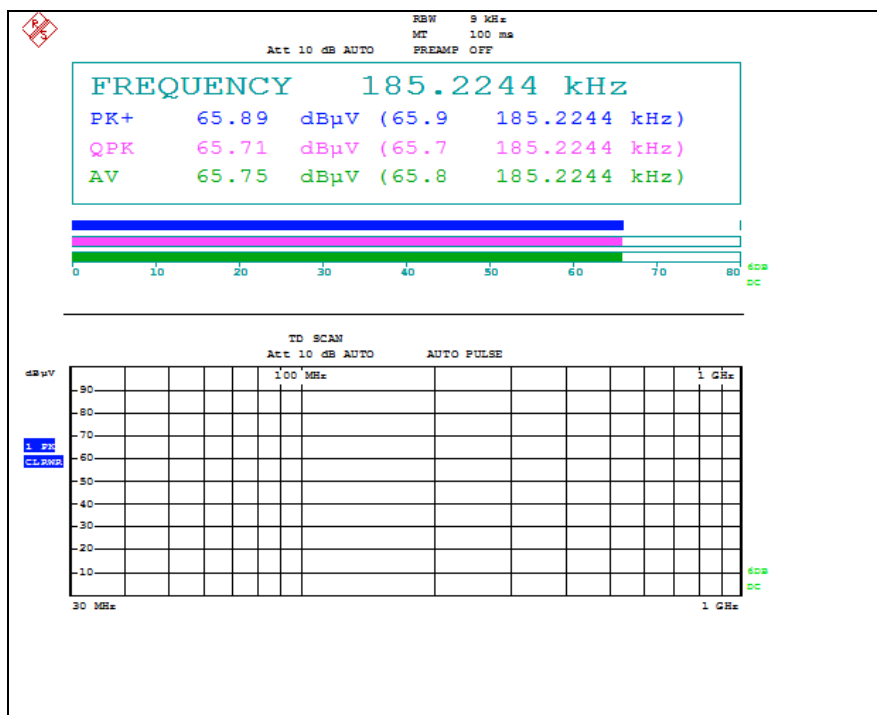
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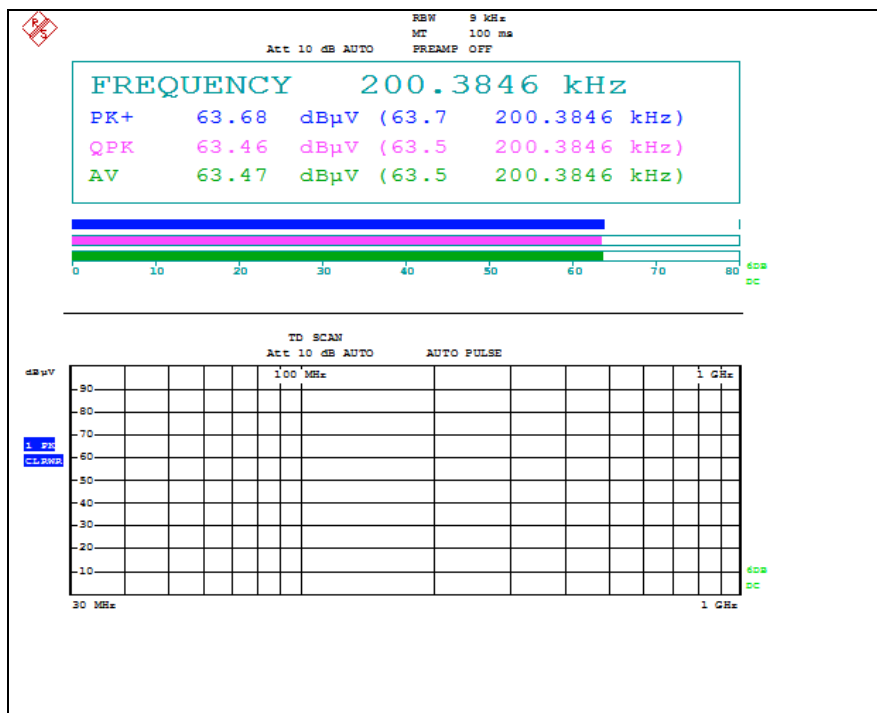
A4(210 mm x 297 mm)

Test plots

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

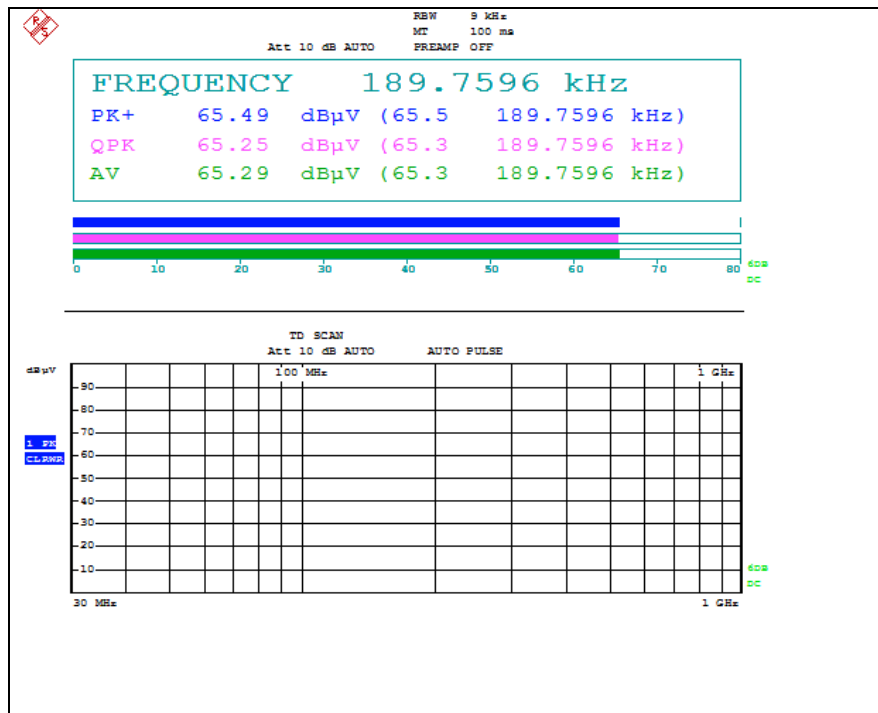


Charging mode (less than 50 % battery status of client device)



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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)

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dB μ V/m) at 3 m	Actual (dB μ V/m) at 30m or 300 m	Limit (dB μ V/m) at 30m or 300 m	Margin (dB)
0.020	43.10	Average	H	19.50	0.02	62.62	-17.38	41.58	58.96
0.069	32.40	Average	H	19.38	0.03	51.81	-28.19	30.83	59.02
0.084	25.50	Average	H	19.44	0.04	44.98	-35.02	29.12	64.14
0.622	37.00	Quasi Peak	H	19.17	0.49	56.66	16.66	31.73	15.07
1.035	27.40	Quasi Peak	H	19.40	0.81	47.61	7.61	27.31	19.70
1.451	21.70	Quasi Peak	H	19.38	0.73	41.81	1.81	24.37	22.56
Above 1.500	Not detected	-	-	-	-	-	-	-	-

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

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dB μ V/m) at 3 m	Actual (dB μ V/m) at 30m or 300 m	Limit (dB μ V/m) at 30m or 300 m	Margin (dB)
0.020	39.70	Average	H	19.50	0.02	59.22	-20.78	41.58	62.36
0.049	38.40	Average	H	19.30	0.03	57.73	-22.27	33.80	56.07
0.074	35.10	Average	H	19.40	0.03	54.53	-25.47	30.22	55.69
0.601	38.43	Quasi Peak	H	19.16	0.47	58.06	18.06	32.03	13.97
1.001	29.10	Quasi Peak	H	19.40	0.82	49.32	9.32	27.60	18.28
1.403	22.70	Quasi Peak	H	19.38	0.74	42.82	2.82	24.66	21.84
Above 1.500	Not detected	-	-	-	-	-	-	-	-

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Charging mode with client device (100 % battery status)

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dB μ V/m) at 3 m	Actual (dB μ V/m) at 30m or 300 m	Limit (dB μ V/m) at 30m or 300 m	Margin (dB)
0.020	42.90	Average	H	19.50	0.02	62.42	-17.58	41.58	59.16
0.069	32.20	Average	H	19.38	0.03	51.61	-28.39	30.83	59.22
0.081	32.60	Average	H	19.42	0.04	52.06	-27.94	29.43	57.37
0.569	39.50	Quasi Peak	H	19.14	0.45	59.09	19.09	32.50	13.41
0.948	30.11	Quasi Peak	H	19.37	0.77	50.25	10.25	28.07	17.82
1.326	24.20	Quasi Peak	H	19.38	0.76	44.34	4.34	25.15	20.81
Above 1.400	Not detected	-	-	-	-	-	-	-	-

Note;

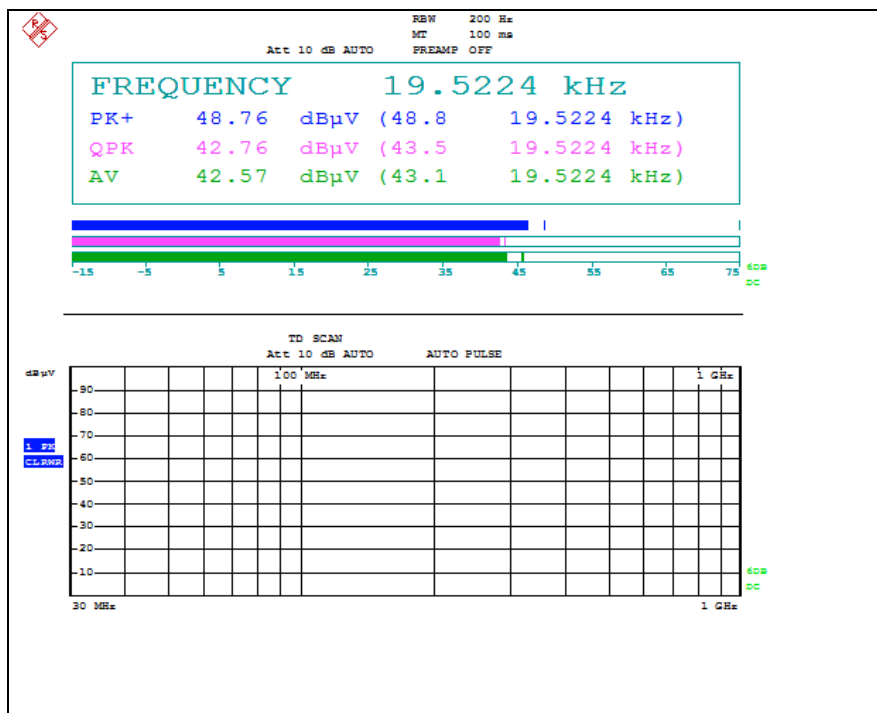
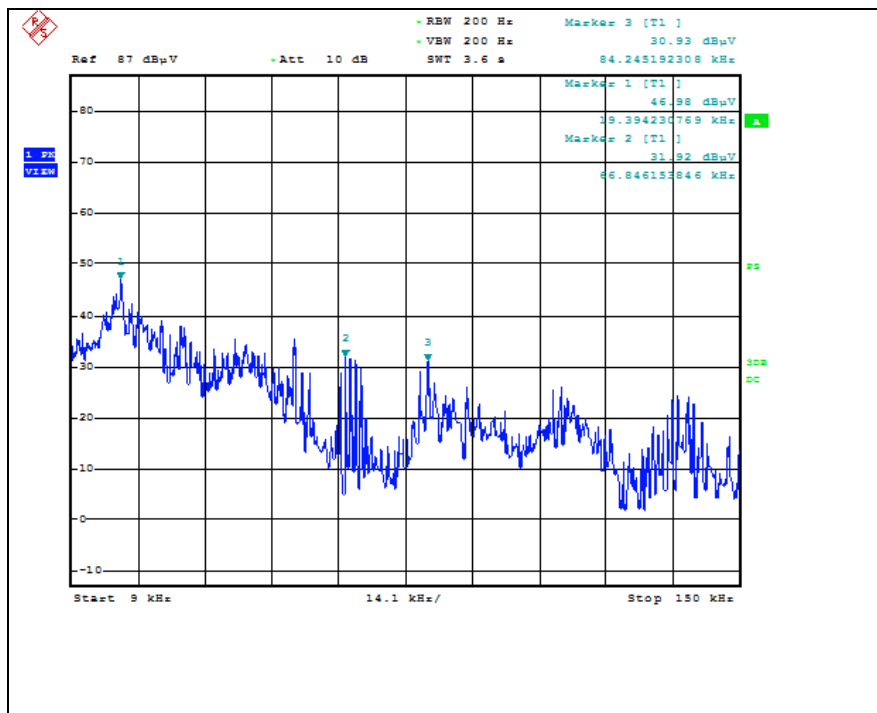
- According to §15.31 (f)(2)
 - 300 m Result(dB μ V/m) = 3 m Result(dB μ V/m) - 40log(300/3) (dB μ V/m)
 - 30 m Result(dB μ V/m) = 3 m Result(dB μ V/m) - 40log(30/3) (dB μ V/m)
- According to field strength table of general requirement in §15.209 (a), field strength limits below 1.705 MHz were calculated as below.
 - 9 kHz to 490 kHz : 20log(2 400 / F (kHz)) at 300 m (dB μ V/m)
 - 490 kHz to 1 705 kHz : 20log(24 000 / F (kHz)) at 30 m (dB μ V/m)
- 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

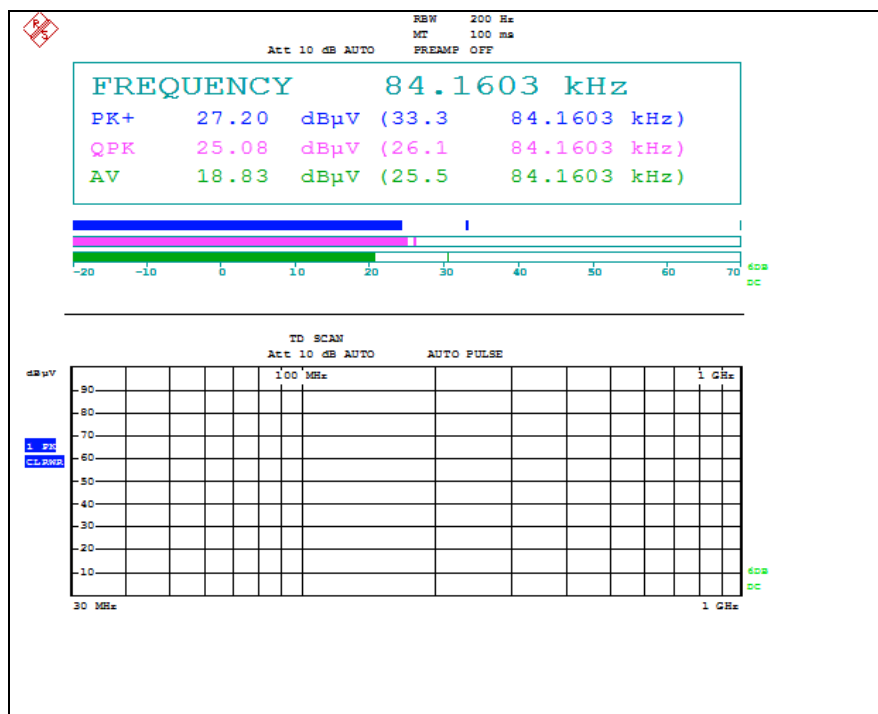
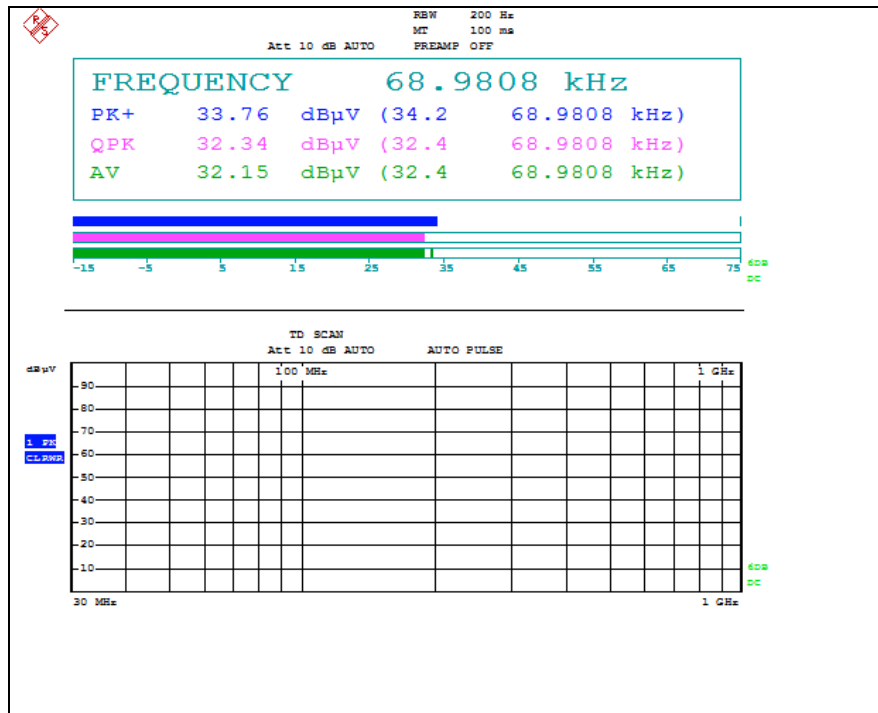
Below 30 MHz

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

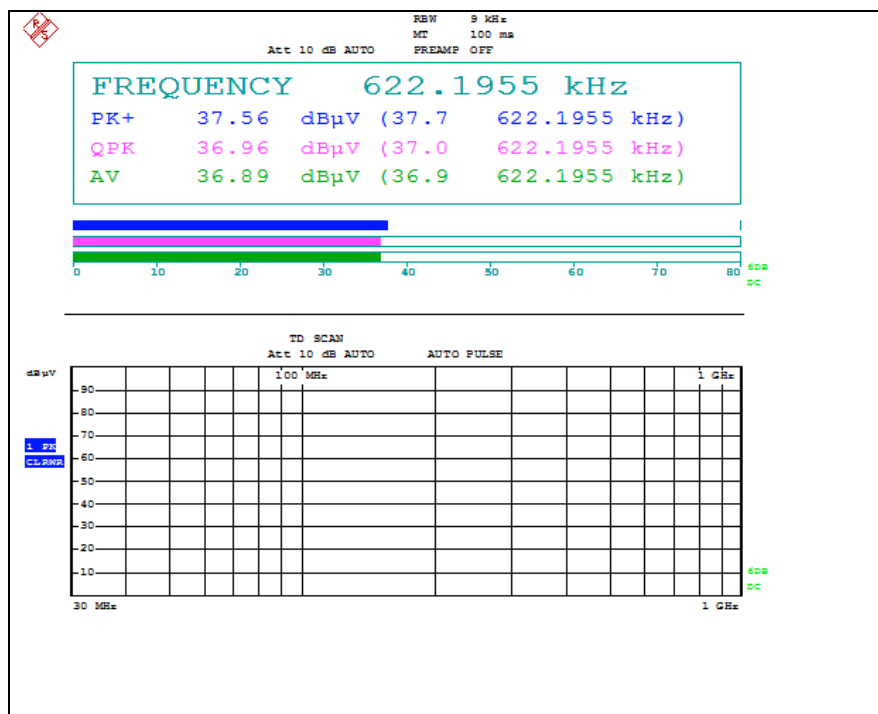
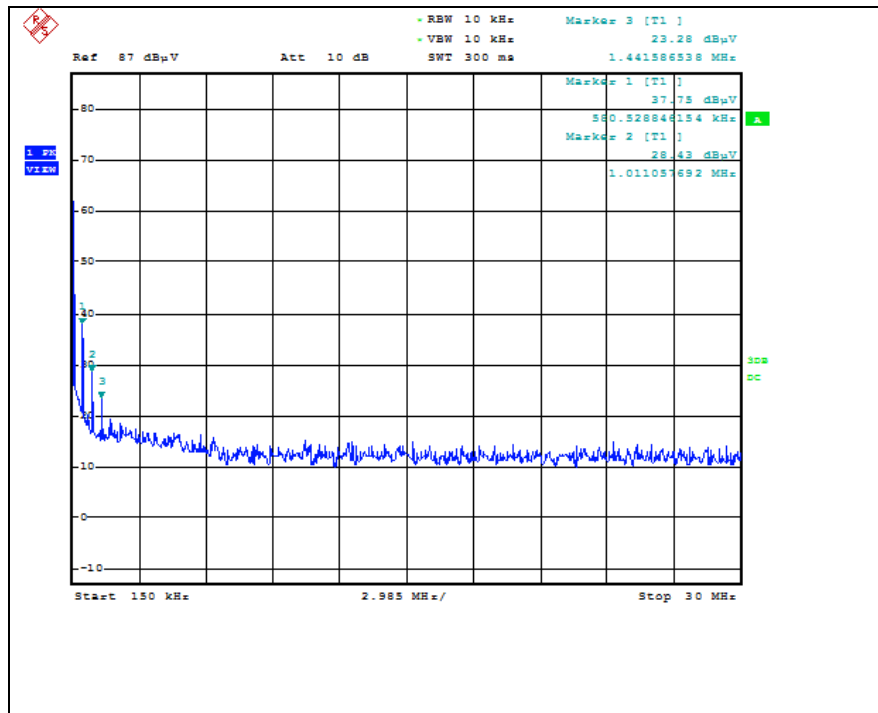


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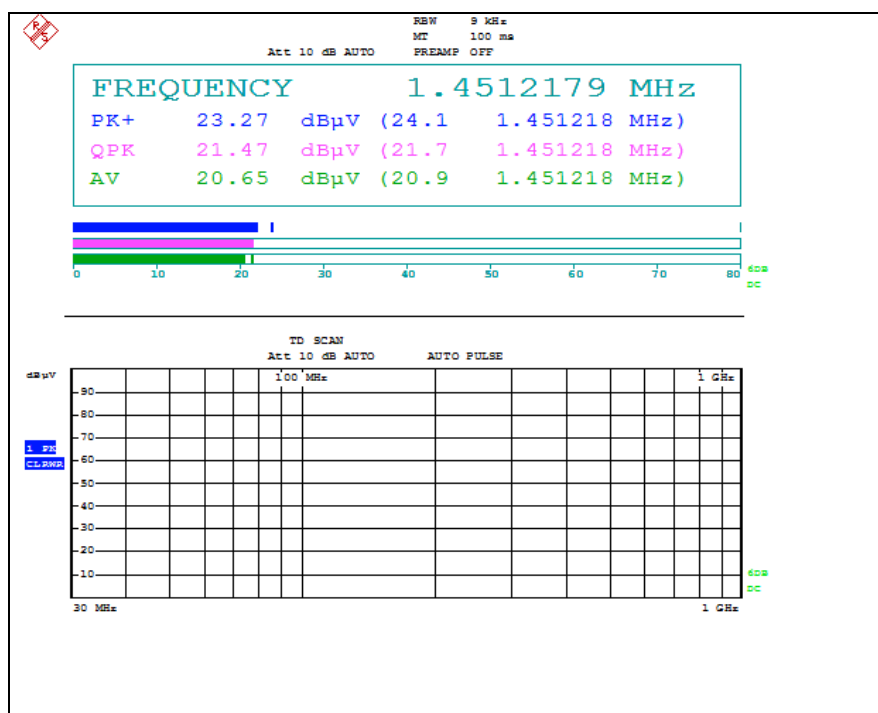
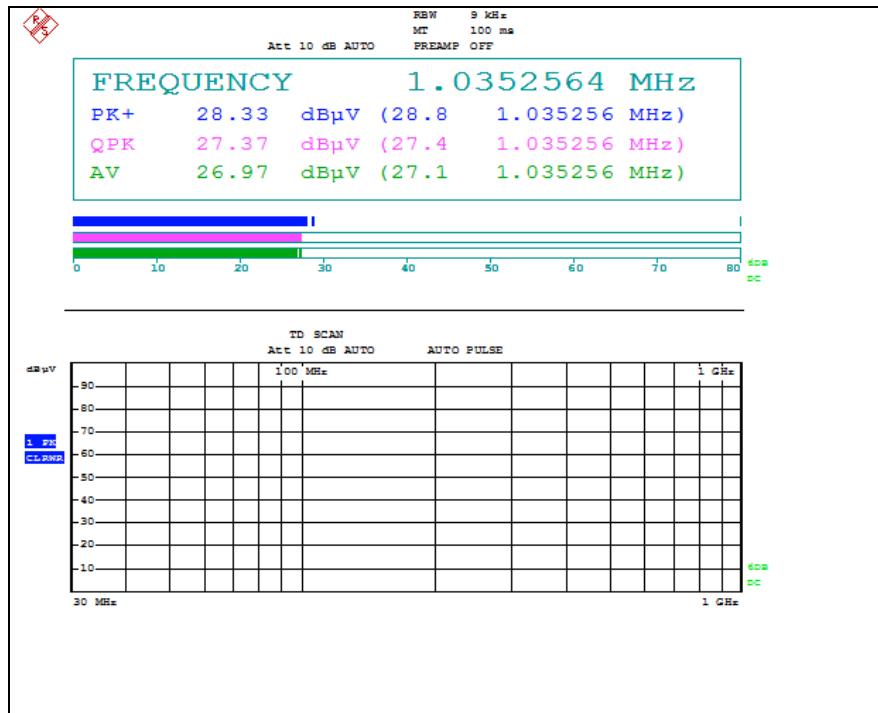
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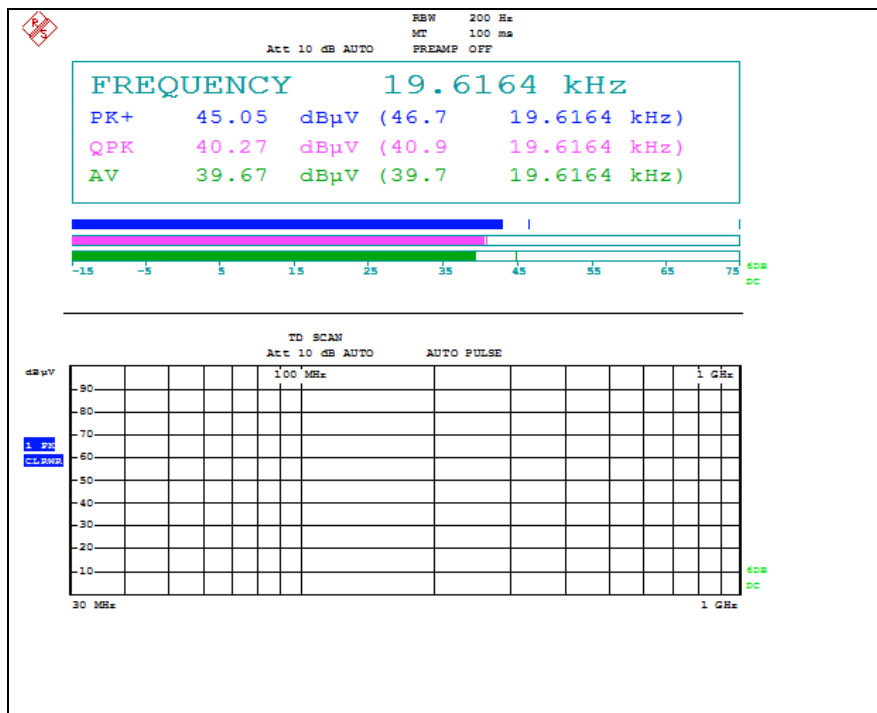
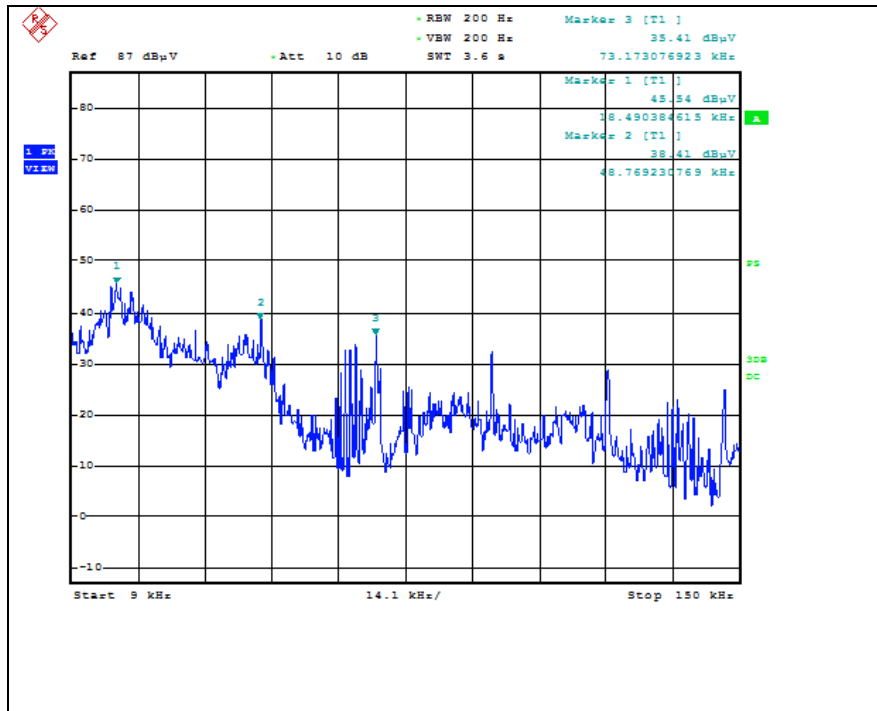


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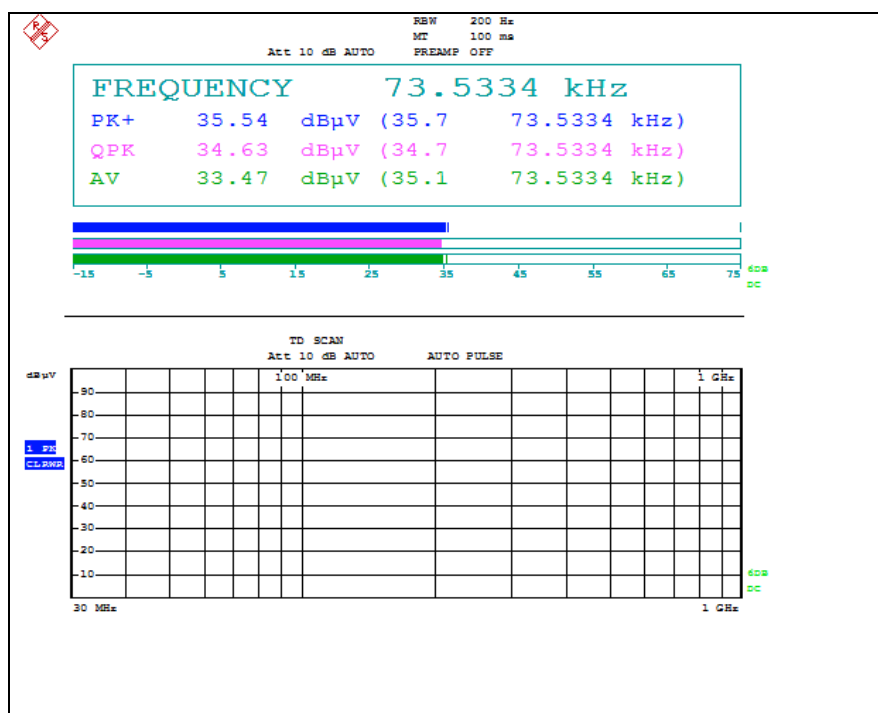
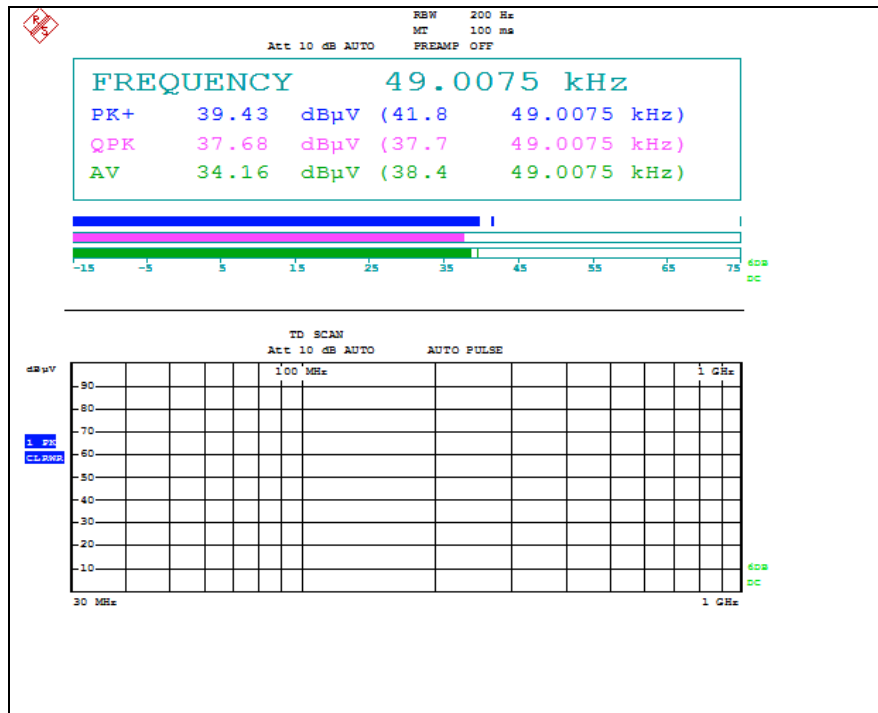


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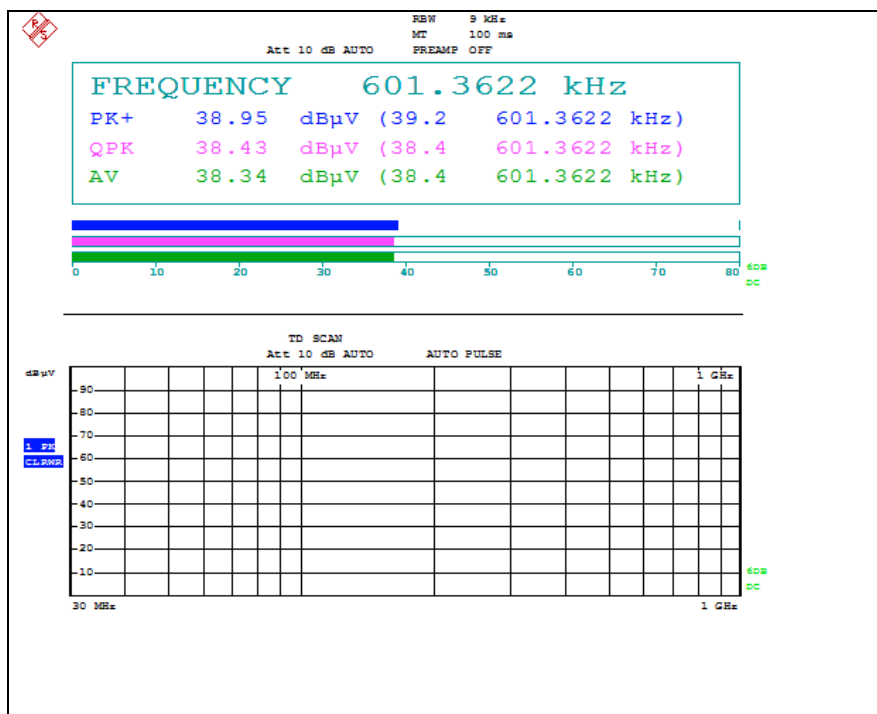
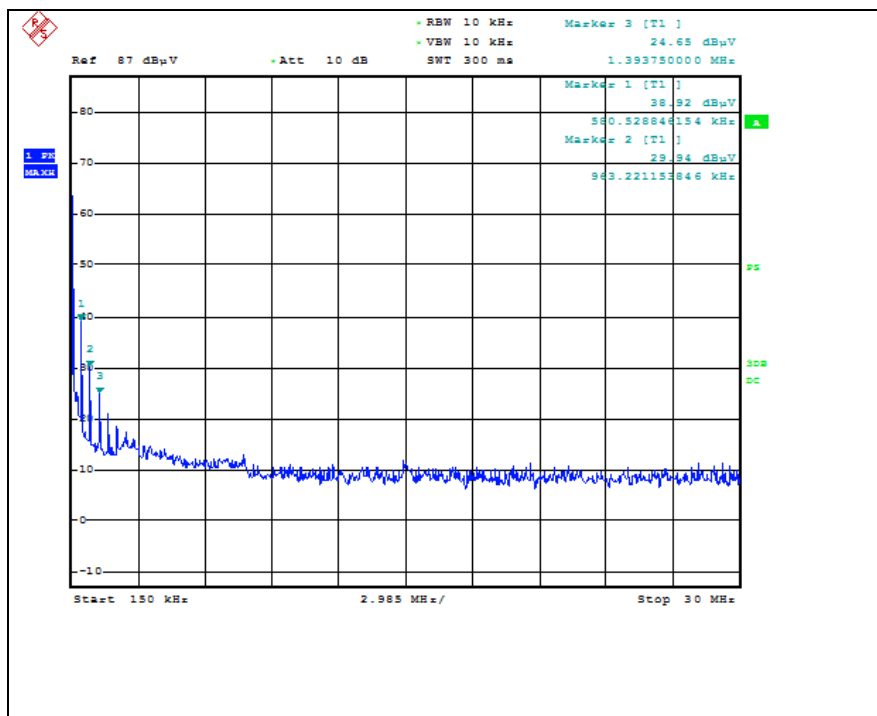
Charging mode (less than 50 % battery status of client device)



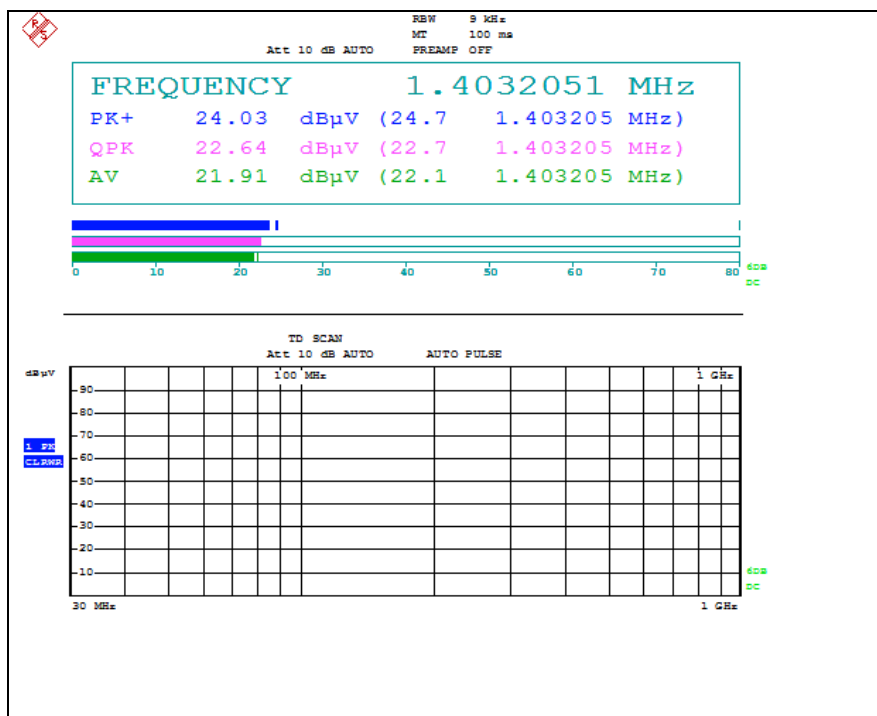
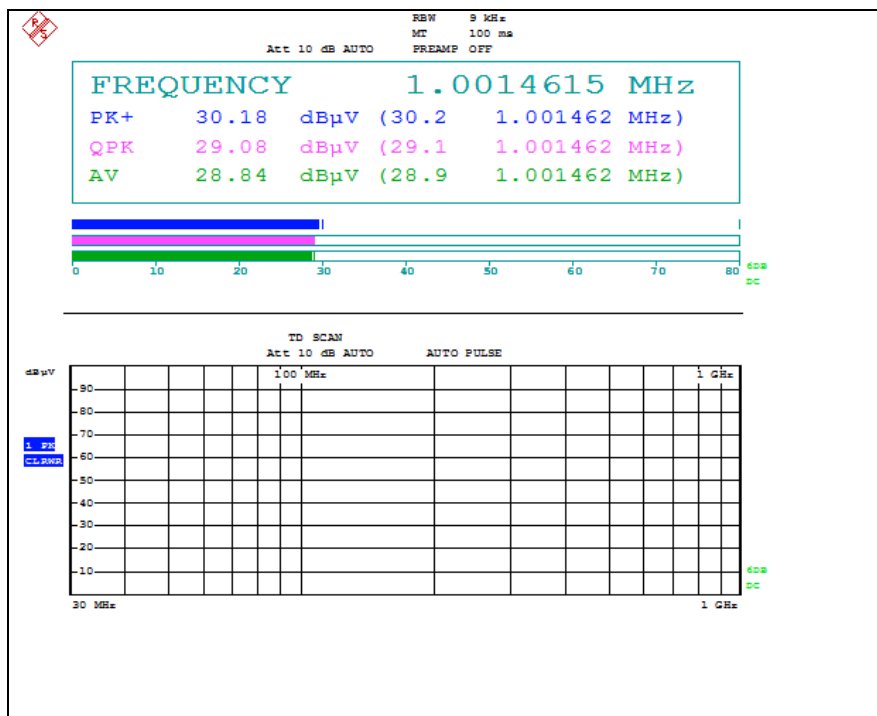
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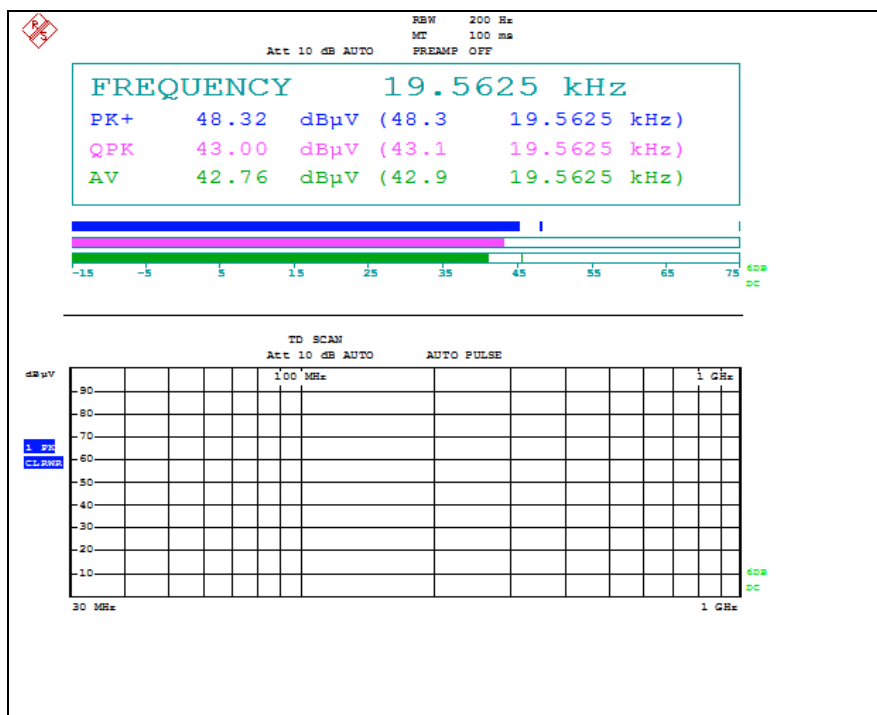
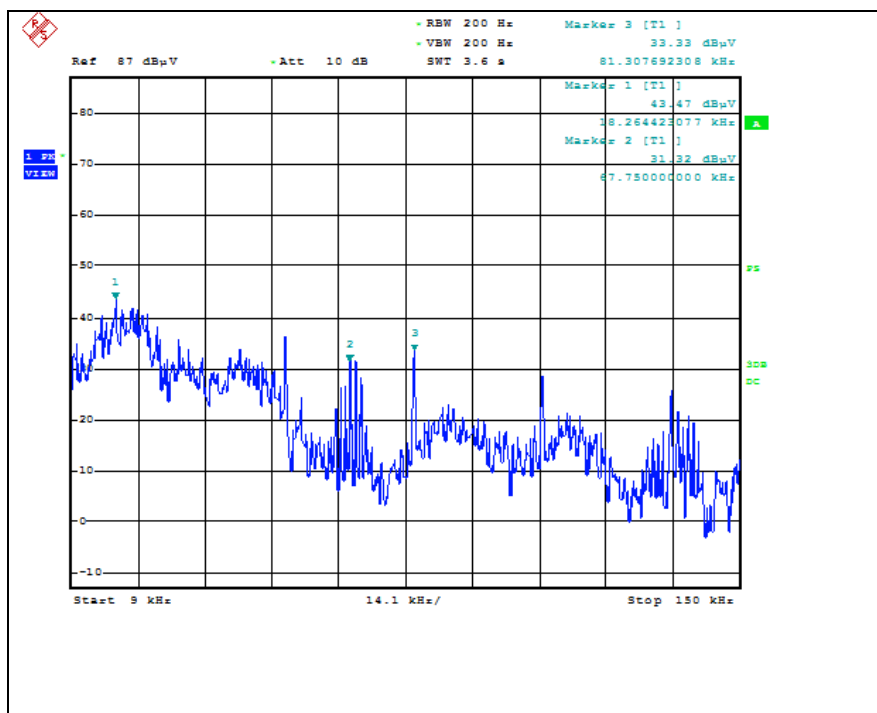


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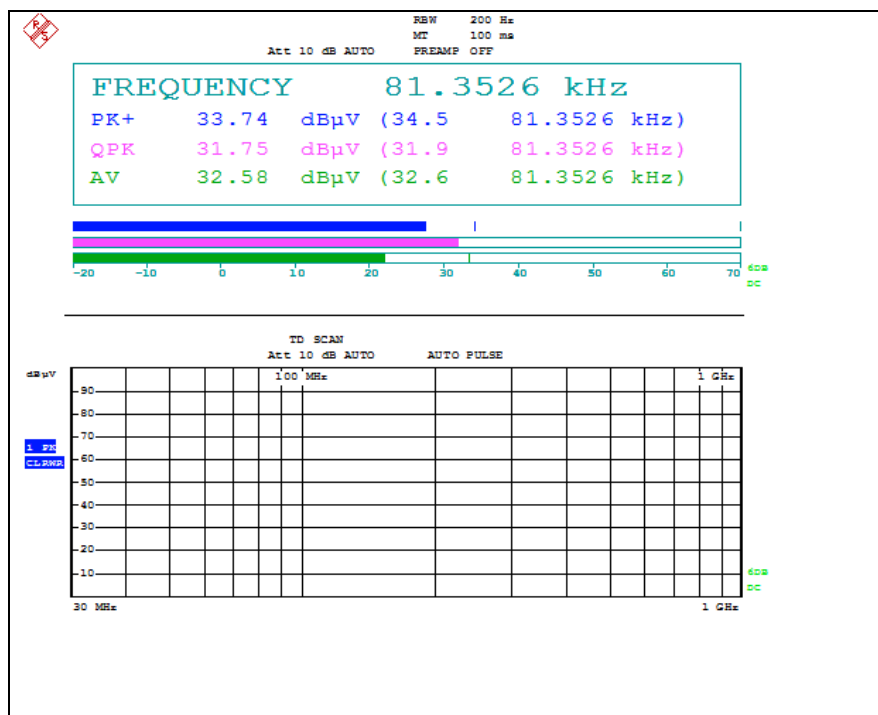
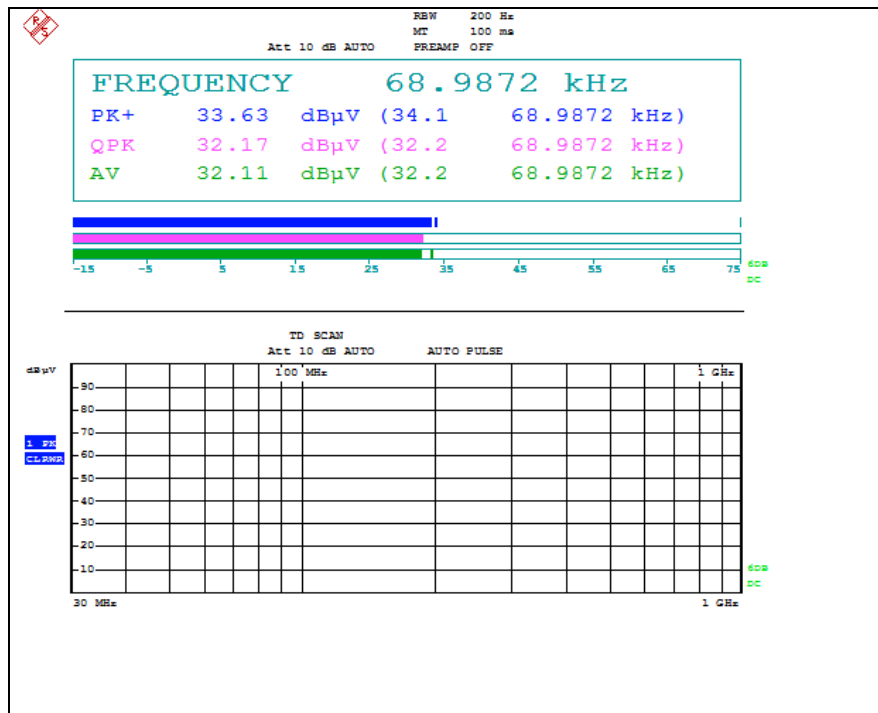


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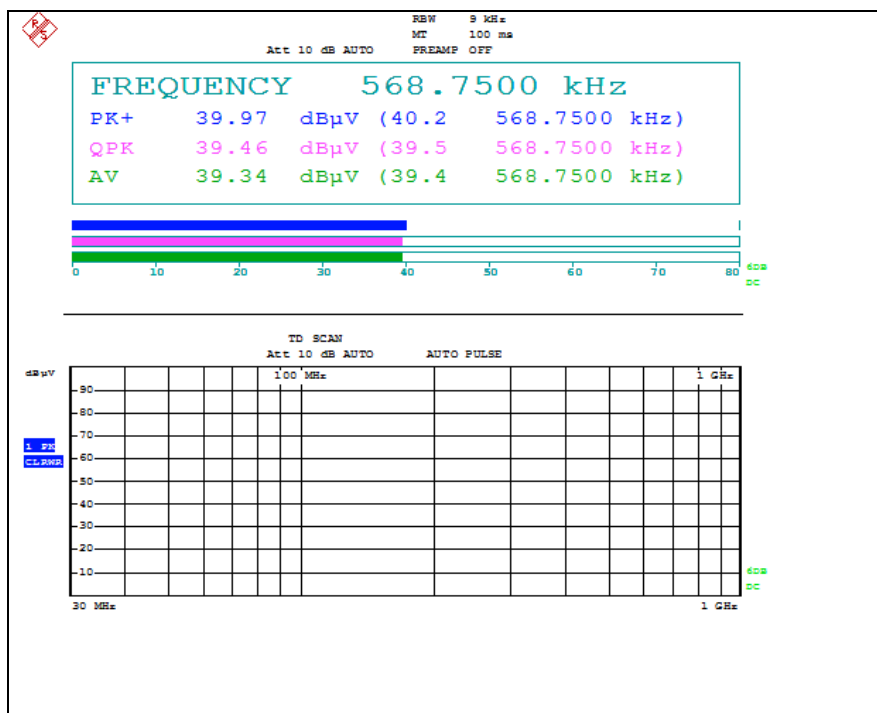
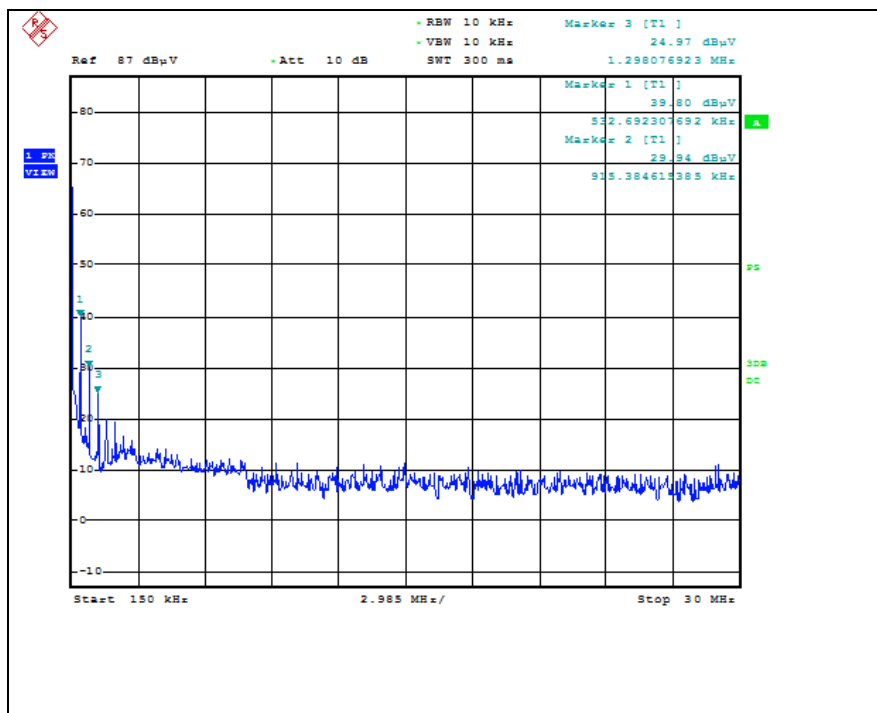
Charging mode (100% battery status of client device)



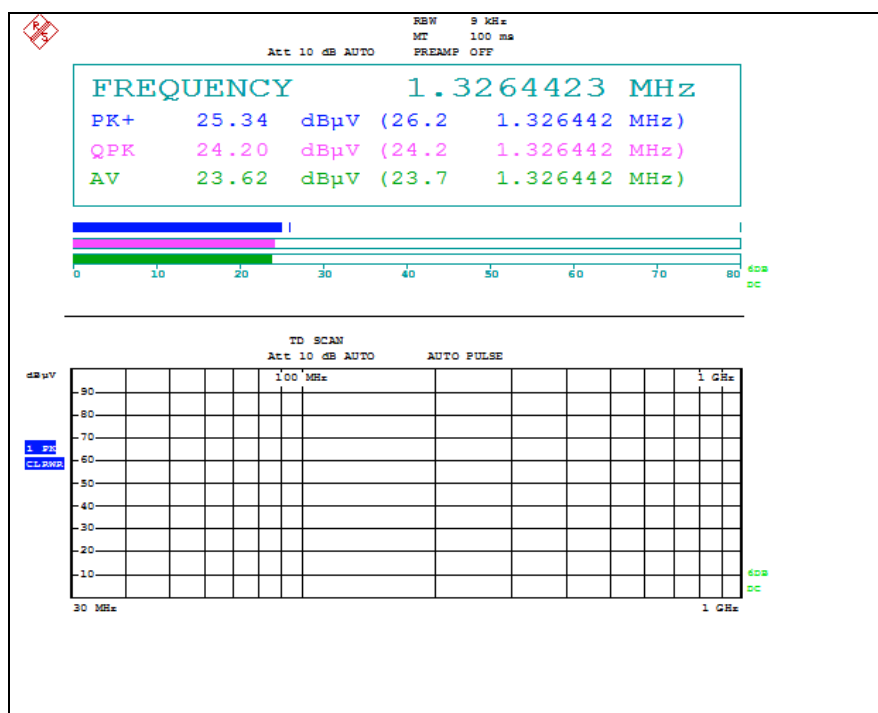
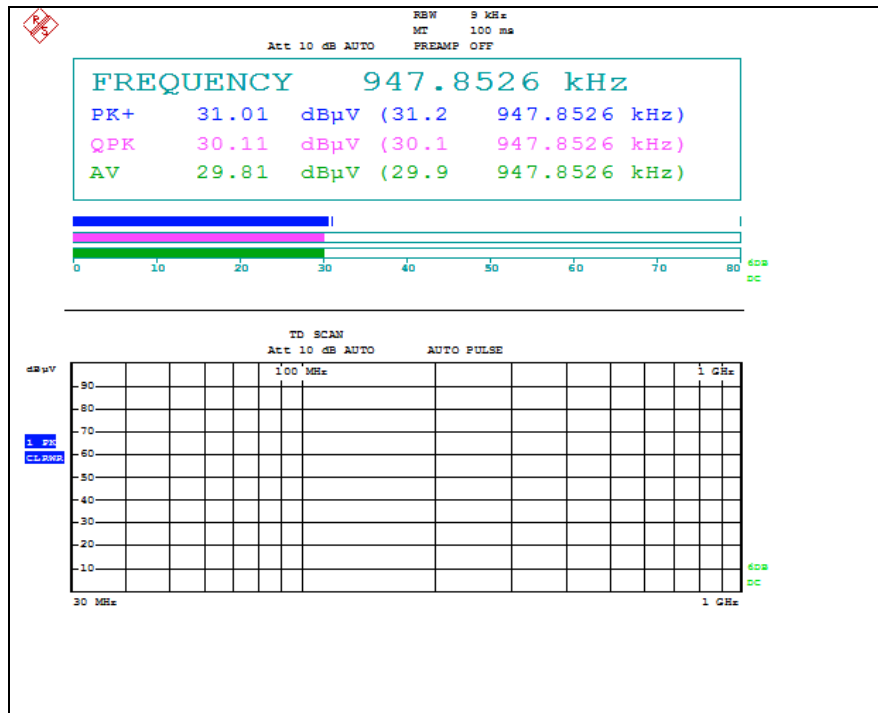
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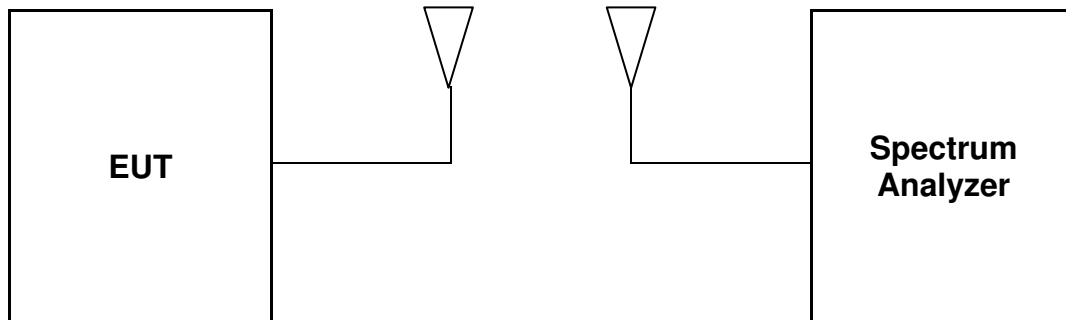
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3. 20 dB Bandwidth

3.1. Test Setup



3.2. Limit

None; for reporting purposed only

3.3. Test Procedure

- Span = approximately 2 to 3 times the 20 dB bandwidth, RBW = greater than 1 % of the 20 dB bandwidth, VBW = RBW, Sweep = auto, Detector = peak, Trace = max hold.
- 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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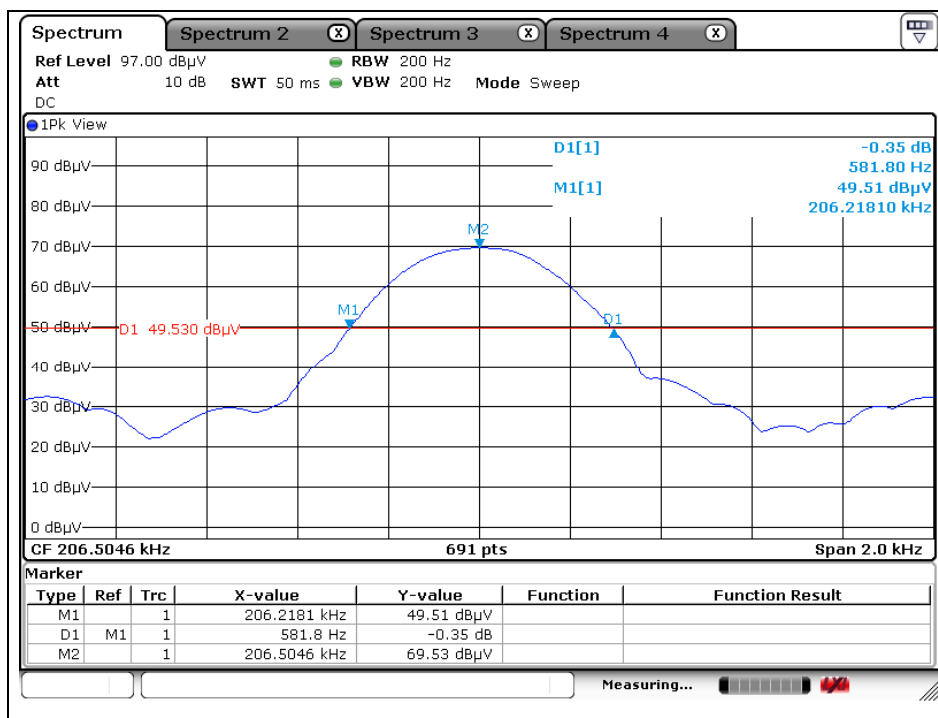
A4(210 mm x 297 mm)

3.4. Test Result

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

EUT status	20 dB Bandwidth (kHz)	Limit
With client device (100 % battery status)	0.582	Reporting proposed only

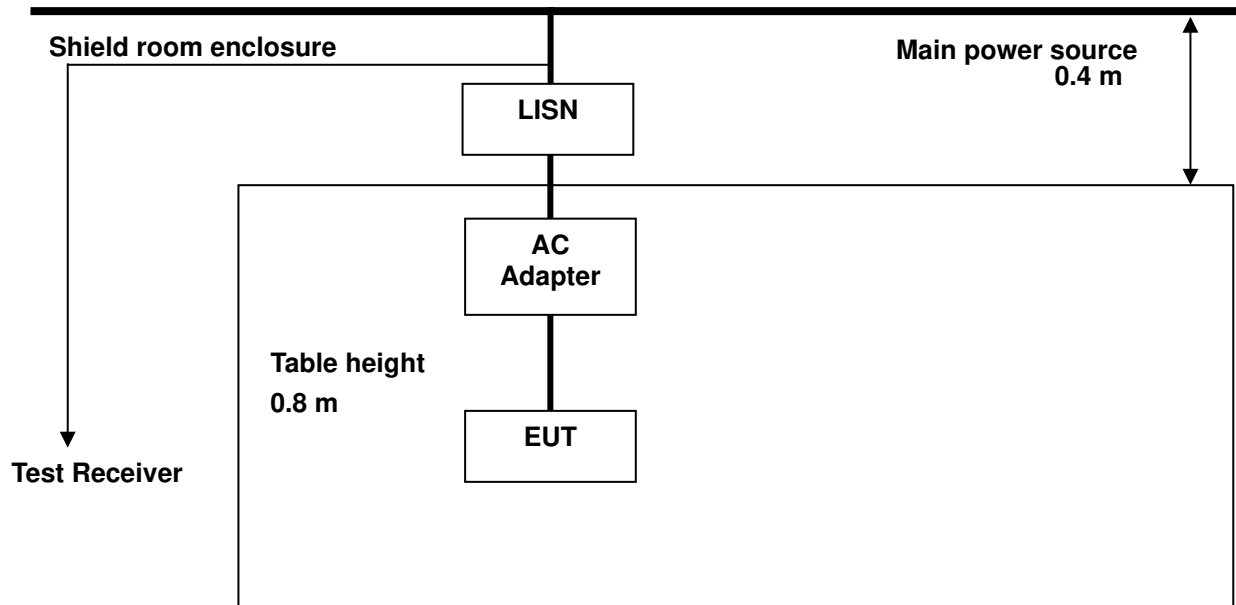
20 dB Bandwidth



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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.

Frequency of Emission (MHz)	Conducted limit (dB μ V)	
	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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RTT5041-20(2015.10.01)(3)

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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) × 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.
Frequency range : 0.15 MHz – 30 MHz
Measured Bandwidth : 9 kHz

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

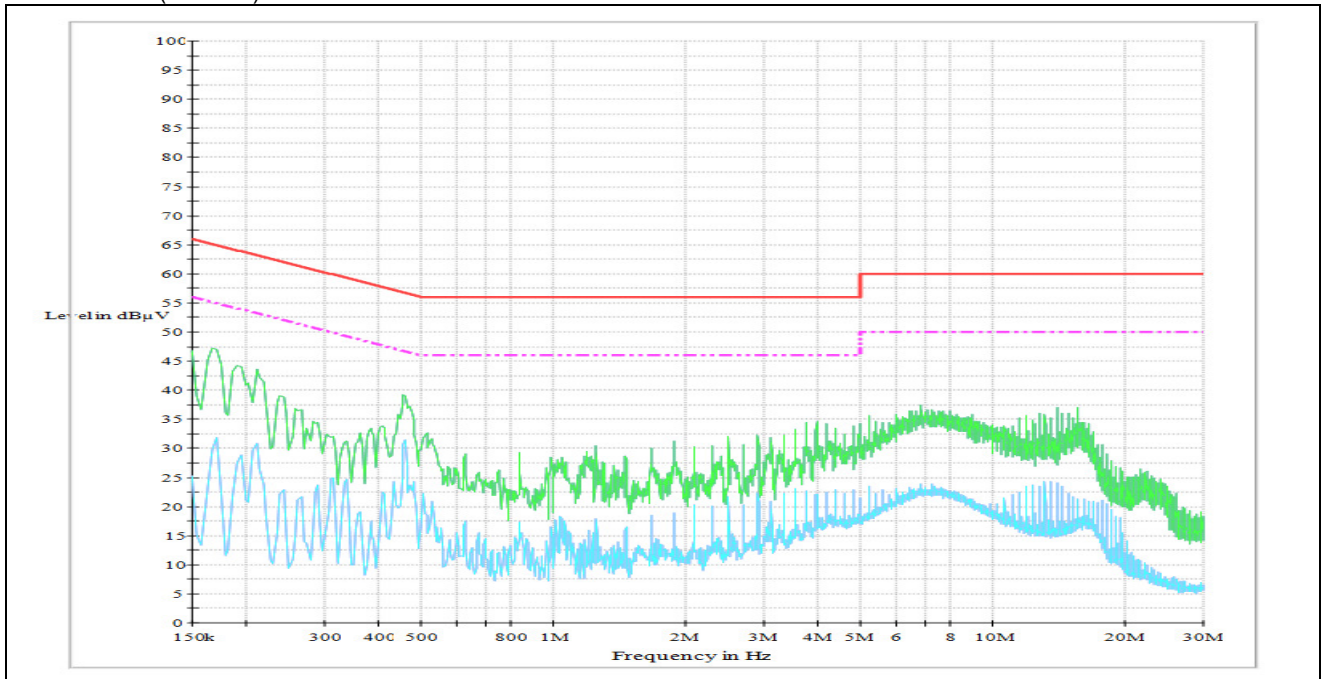
FREQ. (MHz)	LEVEL(dB μ V)		LINE	LIMIT(dB μ V)		MARGIN(dB)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.46	37.20	31.60	N	56.69	46.69	19.49	15.09
1.03	23.60	18.00	N	56.00	46.00	32.40	28.00
2.50	27.00	20.80	N	56.00	46.00	29.00	25.20
6.86	32.10	23.60	N	60.00	50.00	27.90	26.40
13.93	32.40	24.00	N	60.00	50.00	27.60	26.00
17.68	26.20	21.20	N	60.00	50.00	33.80	28.80
0.46	36.60	32.10	H	56.69	46.69	20.09	14.59
1.04	23.10	16.60	H	56.00	46.00	32.90	29.40
2.49	30.10	21.60	H	56.00	46.00	25.90	24.40
6.87	31.40	23.00	H	60.00	50.00	28.60	27.00
12.27	32.00	23.60	H	60.00	50.00	28.00	26.40
24.54	17.30	7.80	H	60.00	50.00	42.70	42.20

Note ;

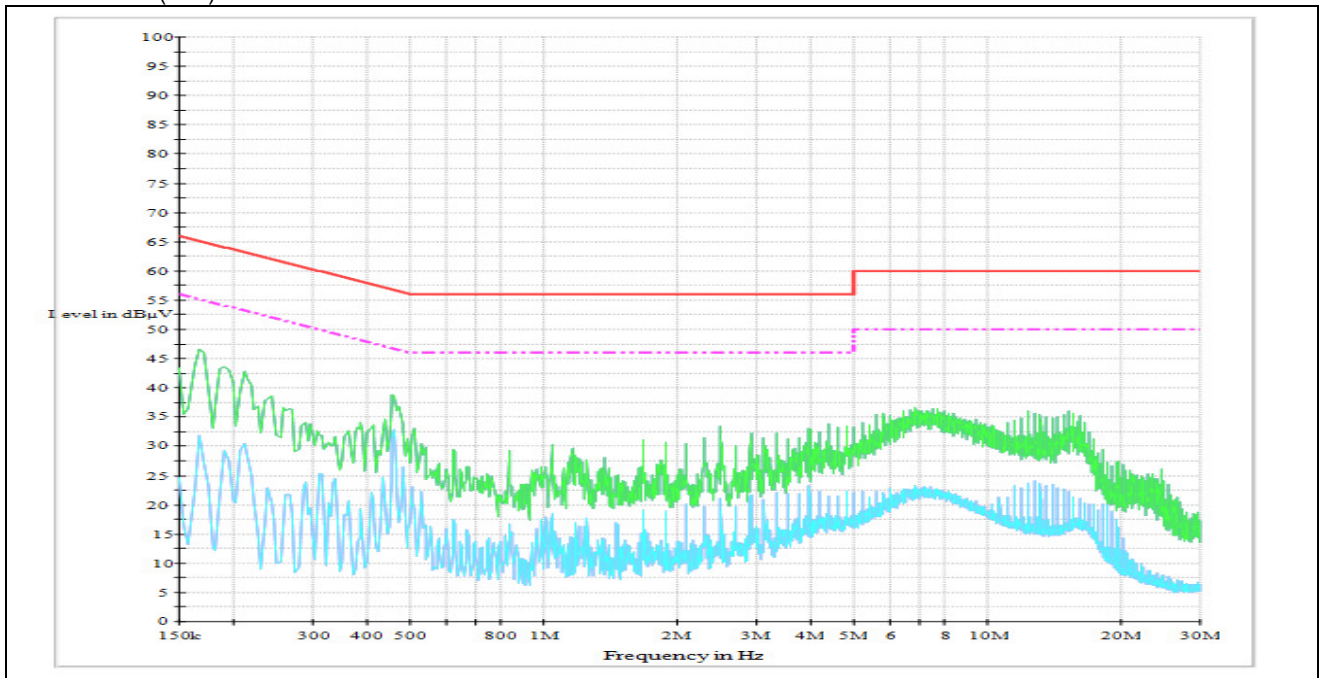
- Line (H): Hot, Line (N): Neutral
- Each charging mode with client device (1 %, 50 %, and 100 % of battery) was tested.
As worst condition, charging mode with client device (1 %) is reported.
- The limit for Class B device(s) from 150 kHz to 30 MHz are specified in Section of the Title 47 CFR.
- Traces shown in plot were made by using a peak detector and average detector.
- Deviations to the Specifications: None.

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Test mode: (Neutral)



Test mode: (Hot)



- End of the Test Report -

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