

TEST REPORT

of

FCC Part 15 Subpart C §15.209

FCC ID: A3LEP-OR900-C

Equipment Under Test : WIRELESS CHARGER
Model Name : EP-OR900
Variant Model Name(s) : -
Applicant : Samsung Electronics Co Ltd
Manufacturer : Samsung Electronics Co., Ltd.
Date of Receipt : 2023.02.21
Date of Test(s) : 2023.06.09 ~ 2023.06.19
Date of Issue : 2023.06.19

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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Tested by:



Murphy Kim

Technical
Manager:



Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory



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1. General Information

1.1. Testing Laboratory

- SGS Korea Co., Ltd. (Gunpo Laboratory)
- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
 - 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
 - Designation number: KR0150

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1.2. Details of Applicant

Applicant : Samsung Electronics Co Ltd
 Address : 19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058
 Contact Person : Chun, Jenni
 Phone No. : +1 973 808 6375

1.3. Details of Manufacturer

Company : Samsung Electronics Co., Ltd.
 Address : Yen Phong 1 Industrial park, Yen Phong District, Bac Ninh Province, VIETNAM
 Factory : CHITWING PRECISION TECH VIET NAM CO.,LTD
 Address : Lot CN2-2 and Lot CN9-4 Yen Phong Industrial Park (expanded area),
 Yen Trung Commune, Yen Phong District, Bac Ninh Province, Vietnam.

1.4. Description of EUT

Kind of Product	WIRELESS CHARGER
Model Name	EP-OR900
Serial Number	RF7W4VA0311CVA
Power Supply	DC 5 V
Operation Mode	5 W
Frequency Range	143.5 ~ 146.5 kHz
Antenna Type	Loop Coil Antenna
Antenna Serial Number	AWPTA-252328-M00_1
PCB Version	V2.4
H/W Version	V2.4
S/W Version	OR900_VE1_OFFI_0322_V1.4

1.5. Declaration of Manufacturer

- The EUT can only operate on Smart Wearable Device.

1.6. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Spectrum Analyzer	R&S	FSV30	103210	Dec. 07, 2022	Annual	Dec. 07, 2023
Signal Generator	R&S	SMA100B	106887	Oct. 13, 2022	Annual	Oct. 13, 2023
Preamplifier	H.P.	8447F	2944A03909	Aug. 04, 2022	Annual	Aug. 04, 2023
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2021	Biennial	Aug. 23, 2023
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	01126	Feb. 09, 2023	Annual	Feb. 09, 2024
EMI Test Receiver	R&S	ESU26	100109	Jan. 18, 2023	Annual	Jan. 18, 2024
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/38 330516/L	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/38 330516/L	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.
Coaxial Cable	RFONE	PL360P-292M292M-1.5M-A	20200324002	Apr. 14, 2023	Semi-Annual	Oct. 14, 2023
Coaxial Cable	RFONE	MWX221-NMSNMS (4 m)	J1023142	Apr. 04, 2023	Semi-Annual	Oct. 04, 2023
Coaxial Cable	Qualwave Inc.	QA500-18-NN-10 (10 m)	22200114	Apr. 04, 2023	Semi-Annual	Oct. 04, 2023
Test Receiver	R&S	ESIB 7	100253	Mar. 07, 2023	Annual	Mar. 07, 2024
Two-Line V-Network	R&S	ENV216	100190	May 17, 2023	Annual	May 17, 2024
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.

► Support Equipment

Description	Manufacturer	Model	FCC ID
Smart Wearable Device	Samsung Electronics Co., Ltd.	SM-R500	A3LSMR500
TRAVEL ADAPTER	RFTECH THAI NGUYEN CO.,LTD	EP-TA800 001	-

1.7. Summary of Test Results

The EUT has been tested according to the following specifications:

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

Note;

- Due to the frequency range of the device is less than 1 MHz, so we perform Middle frequency according to 15.31 requirement.

1.8. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedure for Compliance Testing of unlicensed Wireless Devices (ANSI C63.10-2013).

1.9. Sample Calculation

Where relevant, the following sample calculation is provided:

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

1.10. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL004164	2023.06.19	Initial

1.11. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
20 dB Bandwidth	0.01 kHz	
AC Conducted Emission	4.00 dB	
Radiated Emission, 9 kHz to 30 MHz	H	3.40 dB
	V	3.40 dB
Radiated Emission, below 1 GHz	H	4.50 dB
	V	5.10 dB

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence.

1.12. Worst Case of Test Configurations

Charging mode with client device	Mode	Description
Model: SM-R500 FCC ID: A3LSMR500	5 W	1 % of battery
	143.5 ~ 146.5 kHz	50 % of battery 99 % of battery

Mode	Battery	Frequency (kHz)	Detect Mode	Reading (dB μ V)
5 W	1 %	145	Average	46.85
	50 %			45.70
	99 %			41.73

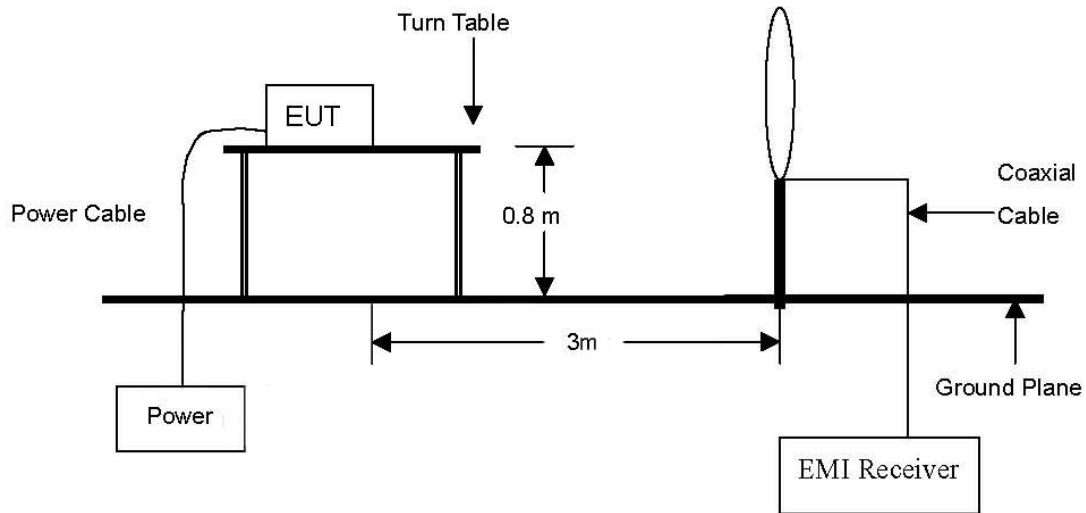
Note;

- EUT was investigated with client device under normal charging condition as above then worst value was only reported.

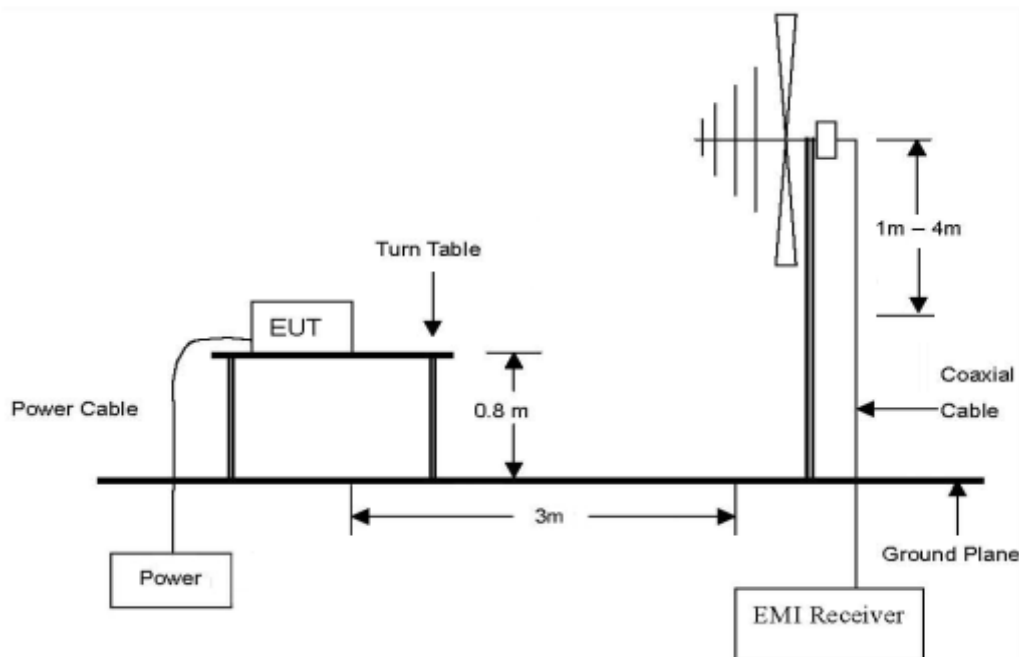
2. Field Strength of Fundamental and Spurious Emission

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.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz.



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., §§15.231 and 15.241

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

- 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 Quasi Peak and Average Detect Function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from 30 MHz to 1 000 MHz

- 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. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For measurements below 1 GHz resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

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 between polarizations of horizontal and vertical.

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m) at 3 m	Actual (dB μ V/m) at 300 m	Limit (dB μ V/m) at 300 m	Margin (dB)
Operating frequency: 143.5 kHz ~ 146.5 kHz									
0.145	46.85	Average	H	17.90	0.04	64.79	-15.21	24.38	39.59

Test Condition: Idle mode

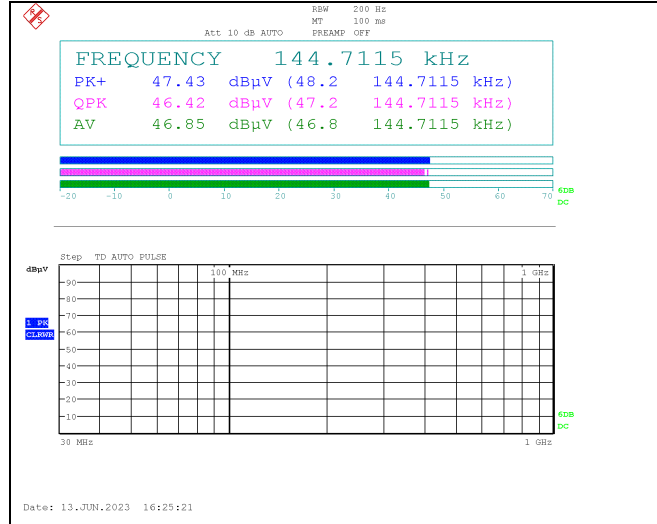
Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m) at 3 m	Actual (dB μ V/m) at 300 m	Limit (dB μ V/m) at 300 m	Margin (dB)
Operating frequency: 143.5 kHz ~ 146.5 kHz									
0.145	44.50	Average	H	17.90	0.04	62.44	-17.56	24.38	41.94

Remark;

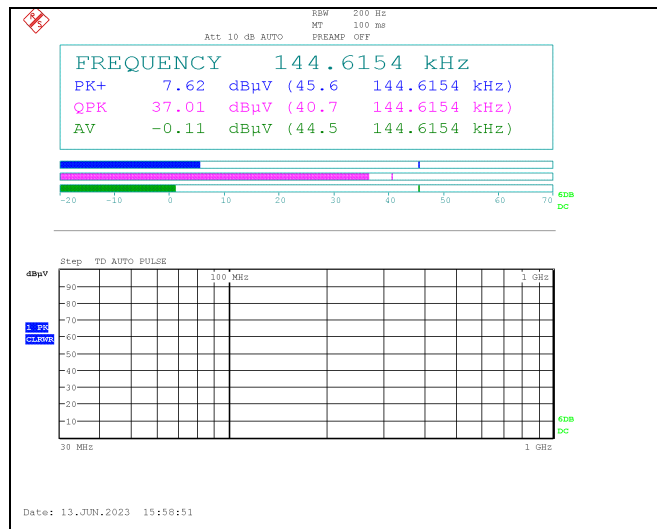
1. According to §15.31(f)(2),
 - 300 m Result (dB μ V/m) = 3 m Result (dB μ V/m) - 40log (300/3) (dB μ V/m).
2. According to field strength table of general requirement in §15.209(a), field strength limits below 1.705 MHz were calculated as below.
 - 9 kHz to 490 kHz: 20log (2 400 / F (kHz)) at 300 m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

- Test plots

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)



Test Condition: Idle mode



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 between polarizations of horizontal and vertical.

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBµV/m) at 3 m	Actual (dBµV/m) at 300 m or 30 m	Limit (dBµV/m) at 300 m or 30 m	Margin (dB)
0.034	38.90	Average	H	18.09	0.02	57.01	-22.99	36.97	59.96
1.111	14.90	Qausi Peak	H	18.22	0.77	33.89	-6.11	26.69	32.80
Above 2.000	Not detected	-	-	-	-	-	-	-	-

Above 30 MHz

Radiated Emissions			Ant	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
35.98	33.00	Peak	V	16.99	-27.49	22.50	40.00	17.50
91.84	34.60	Peak	H	16.44	-27.05	23.99	43.50	19.51
121.67	35.80	Peak	H	15.23	-26.63	24.40	43.50	19.10
182.45	35.50	Peak	H	15.39	-26.13	24.76	43.50	18.74
206.82	35.30	Peak	H	16.50	-26.00	25.80	43.50	17.70
250.88	33.60	Peak	H	18.60	-25.76	26.44	46.00	19.56
Above 300.00	Not detected	-	-	-	-	-	-	-

Test Condition: Idle mode

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m) at 3 m	Actual (dB μ V/m) at 300 m or 30 m	Limit (dB μ V/m) at 300 m or 30 m	Margin (dB)
0.034	38.60	Average	H	18.09	0.02	56.71	-23.29	36.97	60.26
0.435	22.20	Average	H	17.97	0.36	40.53	-39.47	14.83	54.30
Above 1.000	Not detected	-	-	-	-	-	-	-	-

Above 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
36.27	31.10	Peak	V	17.11	-27.49	20.72	40.00	19.28
48.75	29.70	Peak	V	19.70	-27.35	22.05	40.00	17.95
91.92	34.80	Peak	H	16.47	-27.05	24.22	43.50	19.28
182.57	37.10	Peak	H	15.41	-26.13	26.38	43.50	17.12
206.90	35.30	Peak	H	16.50	-26.00	25.80	43.50	17.70
255.61	36.60	Peak	H	18.44	-25.61	29.43	46.00	16.57
Above 300.00	Not detected	-	-	-	-	-	-	-

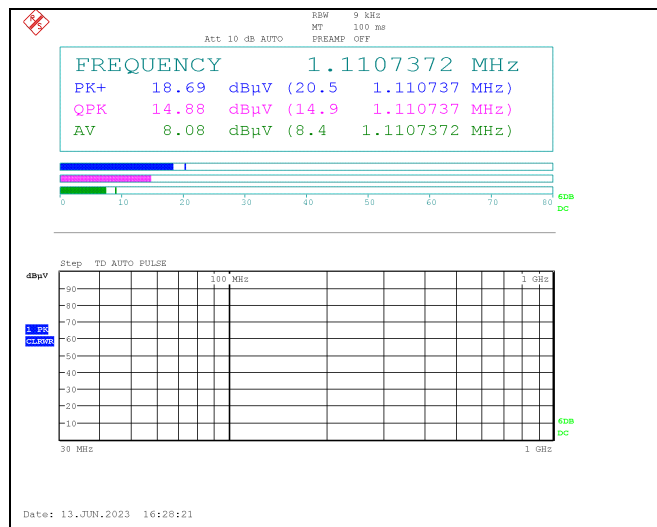
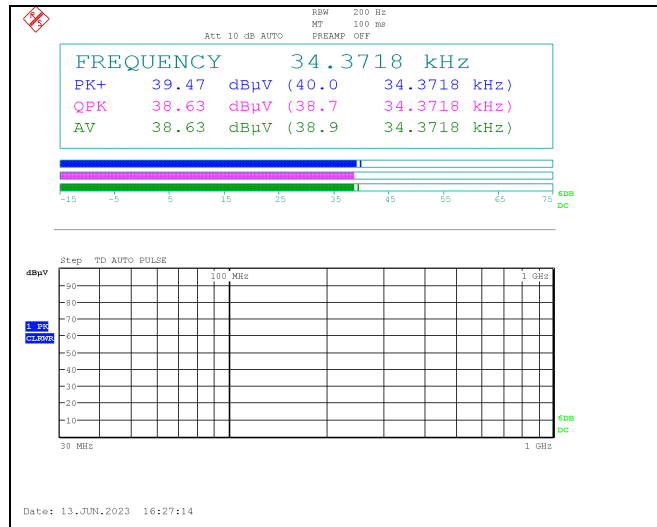
Remark;

1. 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)
2. 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 MHz: 20log (24 000 / F (kHz)) at 30 m (dB μ 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.
4. The limit above was calculated based on table of §15.209 (a).
5. Radiated spurious emission measurement as below 30 MHz.
 (Actual (dB μ A/m) at 3m = Reading (dB μ V) + AF (dB/m) + CL (dB))
6. Radiated spurious emission measurement as above 30 MHz.
 (Actual (dB μ A/m) = Reading (dB μ V) + AF (dB/m) + CL (dB) + AMP (dB))
7. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

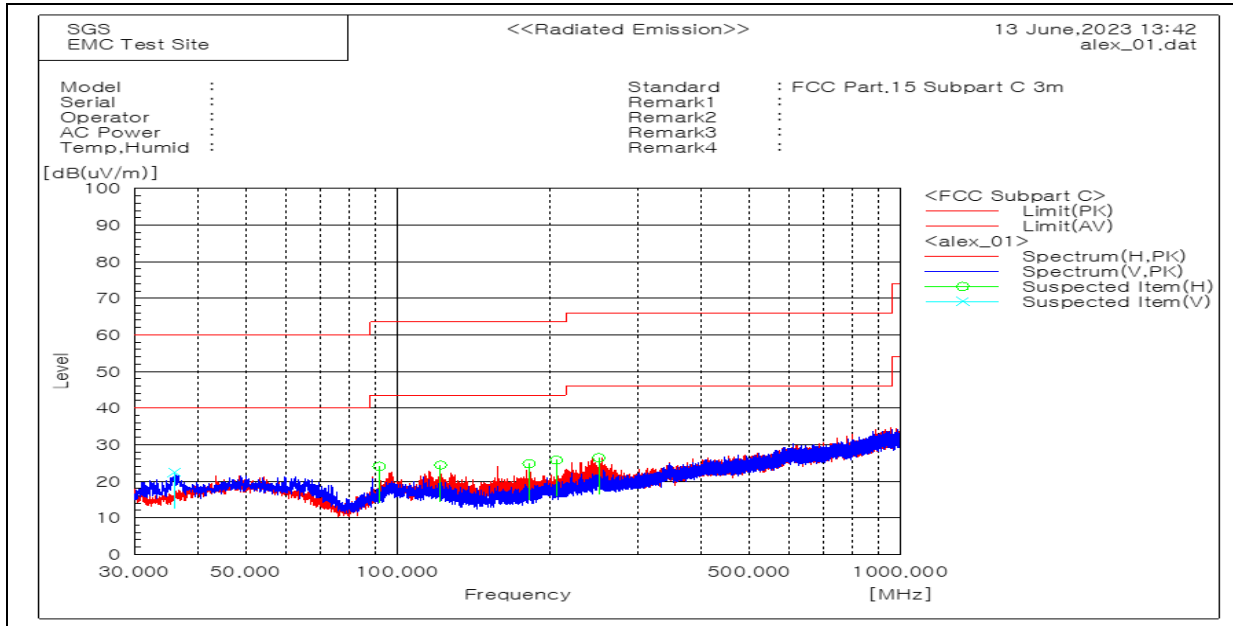
- Test plots

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Below 30 MHz



Above 30 MHz

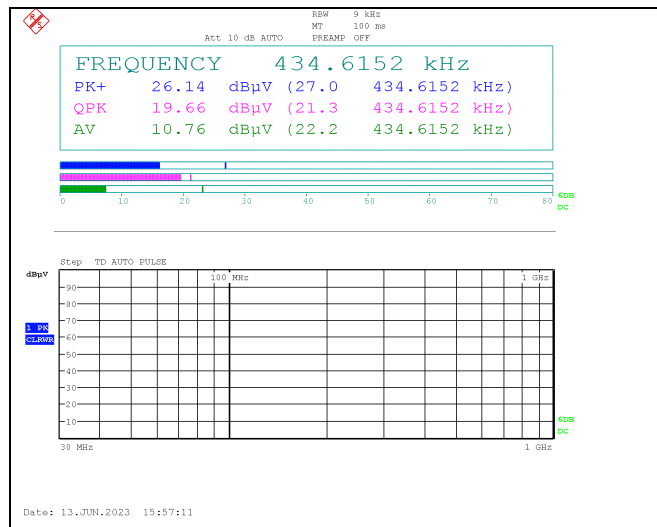
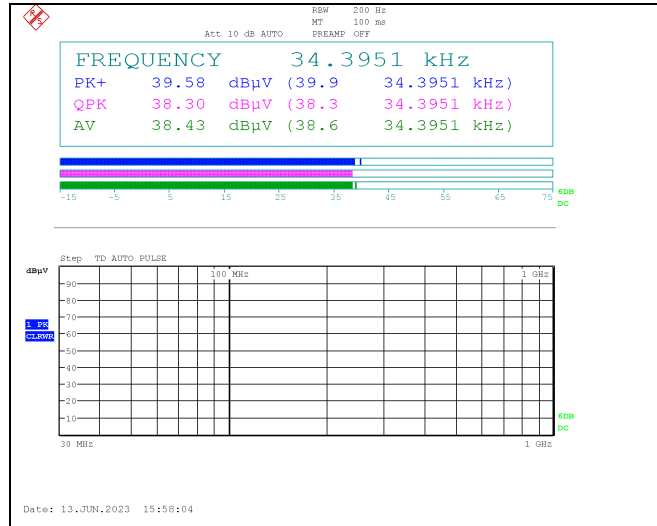


Remark;

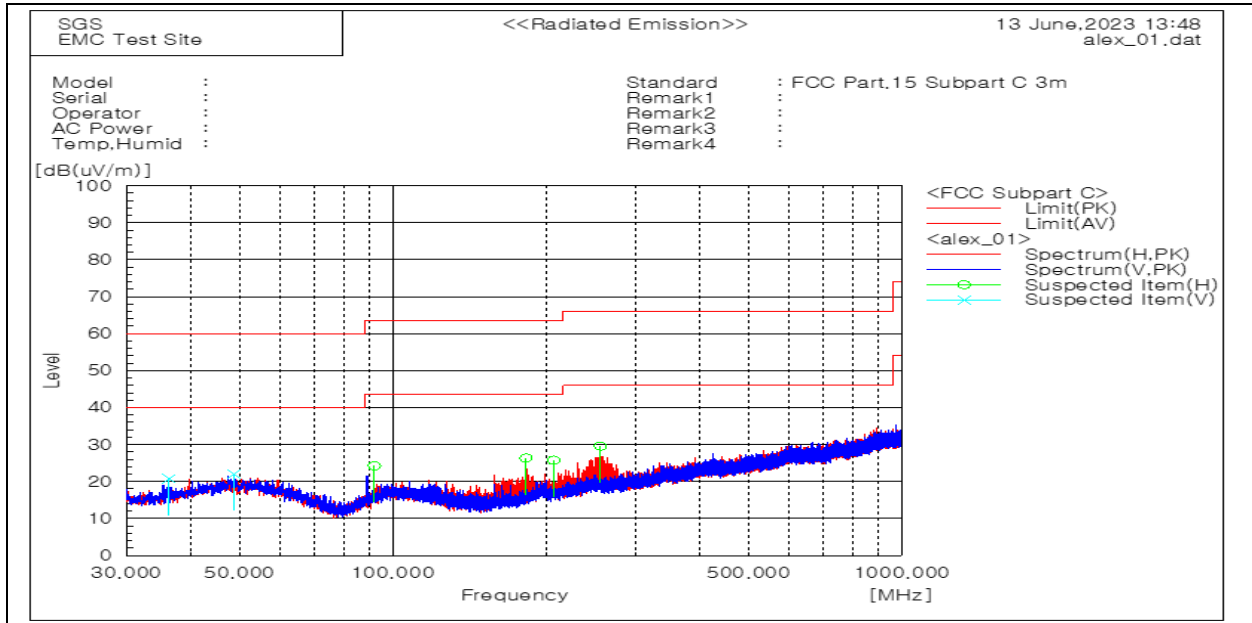
- Traces shown in the plot were made by using a peak detector.

Test Condition: Idle mode

Below 30 MHz



Above 30 MHz

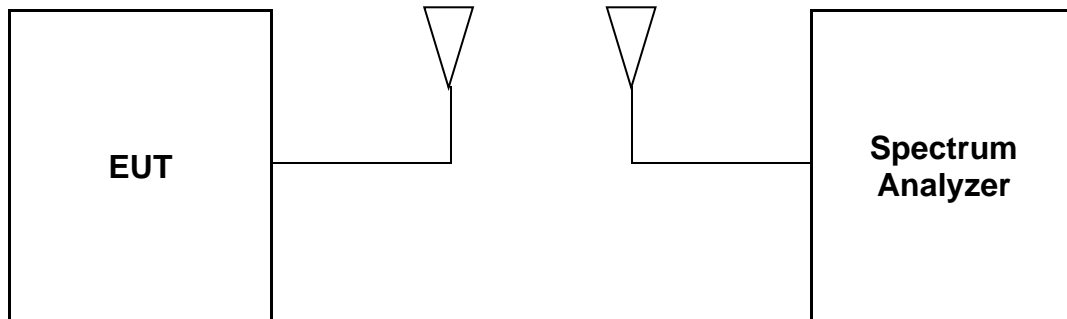


Remark;

- Traces shown in the plot were made by using a peak detector.

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 = 200 Hz, VBW = 200 Hz, 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.

3.4. Test Result

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

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

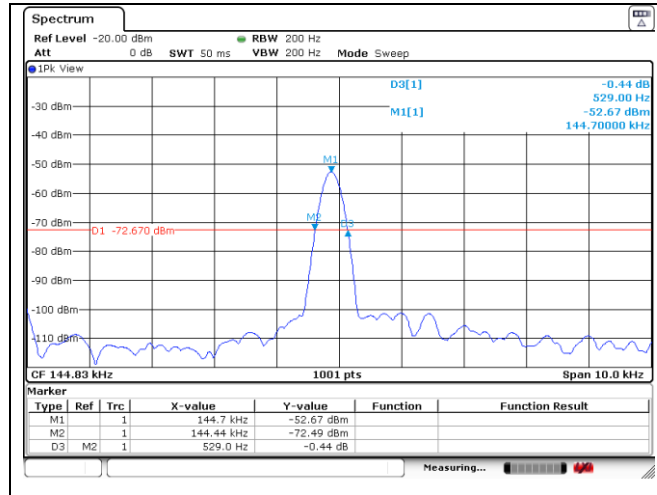
Frequency (kHz)	EUT Status	20 dB Bandwidth (kHz)	Limit
143.5 ~ 146.5	With client device (1 % battery status of client device)	0.529	Reporting proposed only

Test Condition: Idle mode

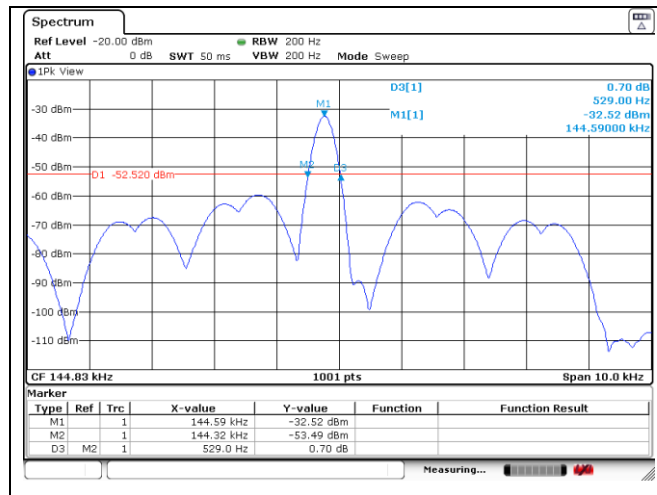
Frequency (kHz)	EUT Status	20 dB Bandwidth (kHz)	Limit
143.5 ~ 146.5	With client device (1 % battery status of client device)	0.529	Reporting proposed only

- Test plots

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

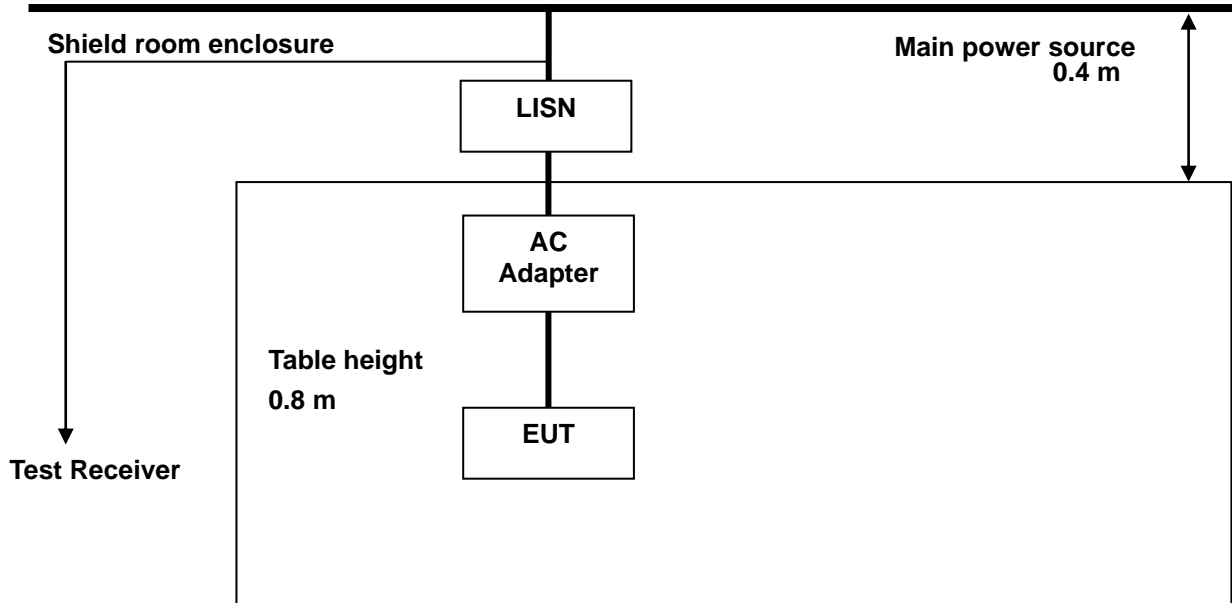


Test Condition: Idle mode



4. 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 ohms line impedance stabilization network (LISN).

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

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

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.

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

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Frequency (MHz)	Level (dB μ V)		LINE	Limit (dB μ V)		Margin (dB)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.17	42.40	24.60	N	64.96	54.96	22.56	30.36
0.22	37.70	23.00	N	62.82	52.82	25.12	29.82
1.17	29.10	19.80	N	56.00	46.00	26.90	26.20
1.87	30.50	17.70	N	56.00	46.00	25.50	28.30
10.85	13.00	6.30	N	60.00	50.00	47.00	43.70
19.25	14.30	6.90	N	60.00	50.00	45.70	43.10
0.20	36.90	30.30	H	63.61	53.61	26.71	23.31
0.43	32.00	22.10	H	57.25	47.25	25.25	25.15
1.36	24.50	20.70	H	56.00	46.00	31.50	25.30
2.15	20.30	14.70	H	56.00	46.00	35.70	31.30
7.38	26.80	23.10	H	60.00	50.00	33.20	26.90
10.86	25.50	22.70	H	60.00	50.00	34.50	27.30

Remark;

- Line (H): Hot, Line (N): Neutral
- Each charging mode with client device (1 %, 50 % and 99 % 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 quasi-peak detector and average detector.
- Deviations to the Specifications: None.

Test Condition: Idle mode

Frequency (MHz)	Level (dB μ V)		LINE	Limit (dB μ V)		Margin (dB)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.44	33.60	21.40	N	57.06	47.06	23.46	25.66
0.82	27.20	16.80	N	56.00	46.00	28.80	29.20
1.88	25.20	16.00	N	56.00	46.00	30.80	30.00
2.88	21.50	11.60	N	56.00	46.00	34.50	34.40
7.17	22.80	13.90	N	60.00	50.00	37.20	36.10
10.84	21.90	12.70	N	60.00	50.00	38.10	37.30
0.16	32.20	24.60	H	65.46	55.46	33.26	30.86
0.44	27.30	20.10	H	57.06	47.06	29.76	26.96
1.38	24.90	16.80	H	56.00	46.00	31.10	29.20
6.36	16.50	12.90	H	60.00	50.00	43.50	37.10
7.14	18.60	11.90	H	60.00	50.00	41.40	38.10
9.54	19.10	10.60	H	60.00	50.00	40.90	39.40

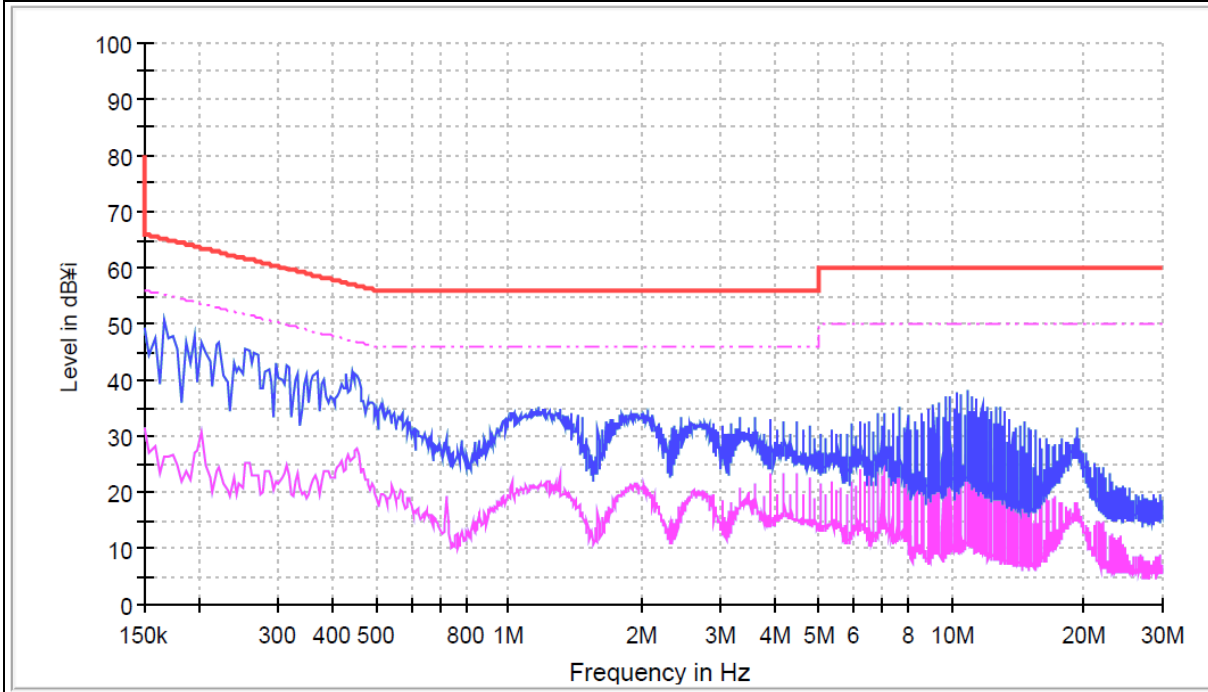
Remark;

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

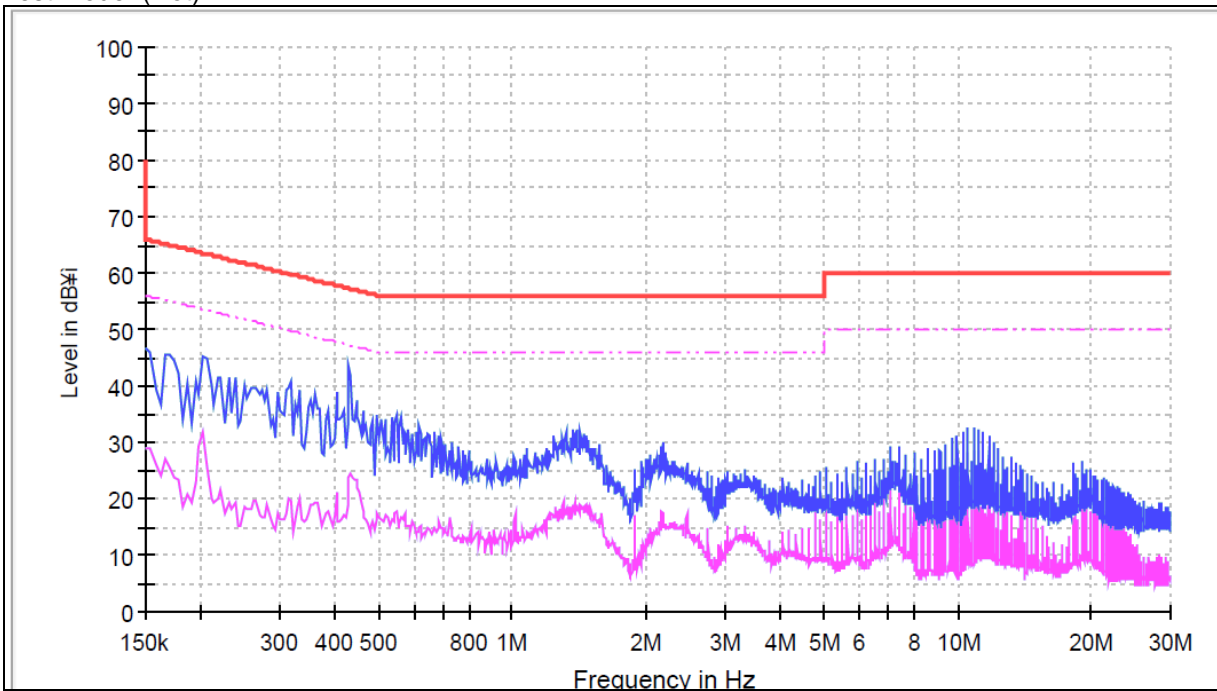
- Test plots

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Test mode: (Neutral)

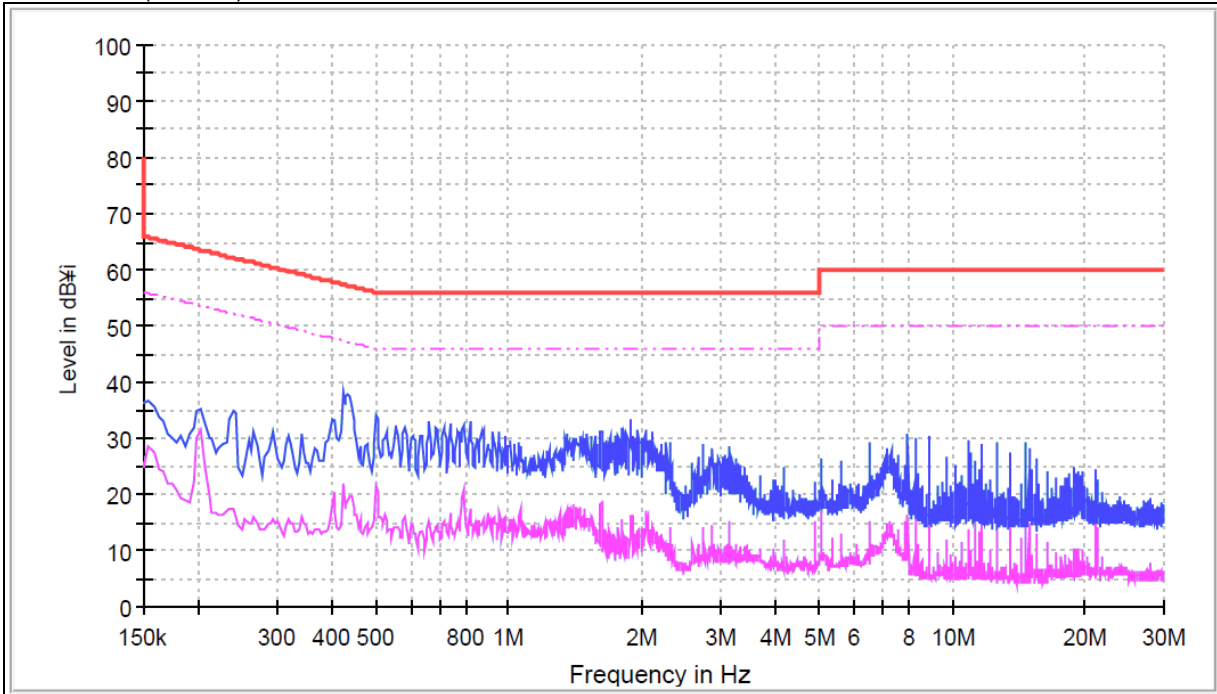


Test mode: (Hot)

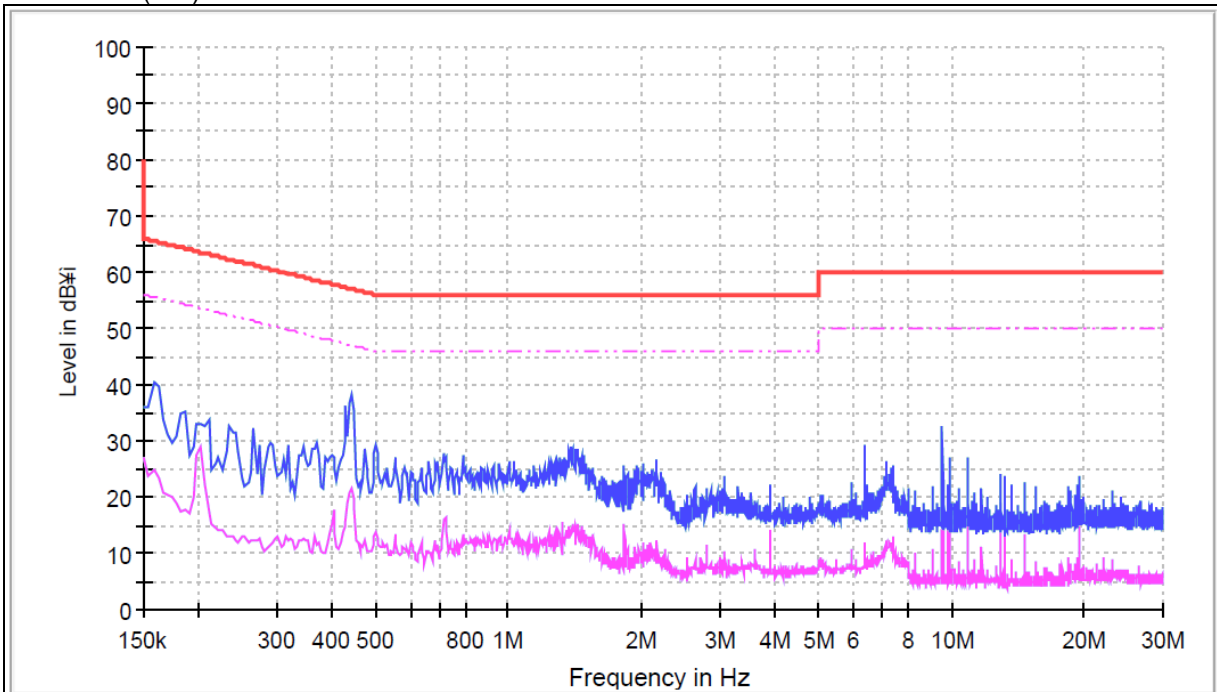


Test Condition: Idle mode

Test mode: (Neutral)



Test mode: (Hot)



- End of the Test Report -