



FCC Part15 Subpart B

TEST REPORT

For

LED Pendant Lamp

MODEL NUMBER: PDT-1SUB-XXXXXX

**('X' can be be A to Z and/or 0 to 9 and/or any symbol and/or blank
for commercial use only)**

FCC ID: 2AUHG-PDT-1SUB

REPORT NUMBER: 4790081359-F01-00

ISSUE DATE: September 06, 2021

Prepared for

Artika For Living Inc.

1756, 50th Avenue Montreal (Lachine), Quebec Canada, H8T 2V5

Prepared by

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Form No.:TRF-GZEMC-002_V1.1
Form Issued: 2019-12-06
Form Revised: 2020-01-13



Revision History

Rev.	Issue Date	Revisions	Revised By
--	09/06/2021	Initial Issue	--



Summary of Test Results				
Standard	Test Item	Limit	Result	Remark
FCC PART 15, Subpart B	Conducted Disturbance	Class B	PASS	
	Radiated Disturbance below 1 GHz	Class B	PASS	
	Radiated Disturbance above 1 GHz	Class B	N/A	NOTE (1) NOTE (2)

Note:

(1) "N/A" denotes test is not applicable in this Test Report

(2) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

(2) The highest frequency of the internal sources of the EUT is less than 108 MHz.

(3) There is no any wireless function using in this products.

(4) Base on the difference of all models, PDT-1SUB-HD-CR was selected as a typical model for all necessary test performed.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Artika For Living Inc.
Address: 1756, 50th Avenue Montreal (Lachine), Quebec Canada, H8T 2V5

Manufacturer Information

Company Name: DongGuan City Rising Stars Lighting Co., LTD
Address: BaoXi Road No., 8, BaoTang Village HouJie Town
Dongguan, Guangdong, 523191, CN

EUT Information

Product Name: LED Pendant Lamp
Model name: PDT-1SUB-XXXXXX
(‘X’ can be be A to Z and/or 0 to 9 and/or any symbol and/or blank for commercial use only)
Brand name: N/A
Sample Status: Normal
Sample ID: 210714026-1
Sample Received Date: Aug. 24, 2021
Date of Tested: Aug. 24, 2021 ~ Sept. 01, 2021

APPLICABLE STANDARDS	
STANDARDS	TEST RESULTS
FCC PART 15, Subpart B	PASS*

*=Decision rule for statement(s) of conformity is based on IEC Guide 115:2007 Clause 4.4.3 Procedure 2" Accuracy Method"

Prepared By:

Ryan Pang
Project Engineer

Approved By:

Yam Shan
Project Engineer



2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC Part15 Subpart B and ANSI C63.4-2014.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4338.01) Shenzhen STS Test Services Co., Ltd. has been assessed and proved to be in compliance with A2LA. CNAS (Registration No.: L7649) Shenzhen STS Test Services Co., Ltd. has been assessed and proved to be in compliance with CNAS.
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Note: All tests measurement facilities use to collect the measurement data are located at A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

4. CALIBRATION AND UNCERTAINTY

4.1. Measuring Instrument Calibration

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. Measurement Uncertainty

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

Test Item	Measurement Frequency Range	K	U(dB)
Conducted disturbance at mains terminals ports	0.15MHz ~ 30MHz	2	2.80 dB
Radiated disturbance Test	30MHz ~ 1000MHz	2	4.39 dB
Radiated disturbance Test	1GHz ~ 6 GHz	2	5.10 dB
Radiated disturbance Test	6GHz ~ 18GHz	2	5.48 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5. EQUIPMENT UNDER TEST

5.1. Description of EUT

EUT Name	LED Pendant Lamp
EUT Description	This devices are LED lamp use at indoor.
Model	PDT-1SUB-XXXXXX
Model Difference	1. 'X' can be be A to Z and/or 0 to 9 and/or any symbol and/or blank for commercial use only. 2. All models are identical except for the model name.
Rated Input	AC 120V 60Hz
Test Model	PDT-1SUB-HD-CR
Test Power Supply	AC 120V 60Hz

5.2. Test Mode

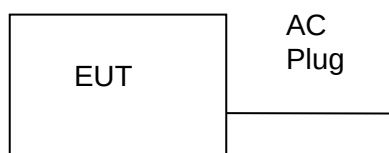
Test Mode	Description
Mode 1	Lighting mode

5.3. EUT Accessory

Item	Accessory	Brand Name	Model Name	Description
1	N/A	N/A	N/A	N/A



5.4. Block Diagram Showing the Configuration of System Tested



The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A



6. MEASURING EQUIPMENT AND SOFTWARE USED

Conducted Disturbance						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	EMI Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
☒	LISN	R&S	ENV216	101242	2020.10.12	2021.10.11
Software						
Used	Description	Manufacturer	Name	Version		
☒	Test Software for Conducted Emissions	Farad	EZ-EMC	Ver. UL-3A1		
Radiated Disturbance						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	EMI Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
☒	Bi-log Antenna	TESEQ	CBL6111D	34678	2020.10.12	2021.10.11
☒	Pre-amplifier(0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11
☒	Spectrum Analyzer	Agilent	N9020A	MY491000 60	2020.10.12	2021.10.11
Software						
Used	Description	Manufacturer	Name	Version		
☒	Test Software for Radiated Emissions	Farad	EZ-EMC	Ver. UL-3A1		



7. EMISSION TEST

7.1. Conducted Disturbance Measurement

7.1.1. Limits of conducted disturbance voltage

FREQUENCY (MHz)	☐ Class A (dB μ V)		☒ Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor
Margin Level = Measurement Value - Limit Value

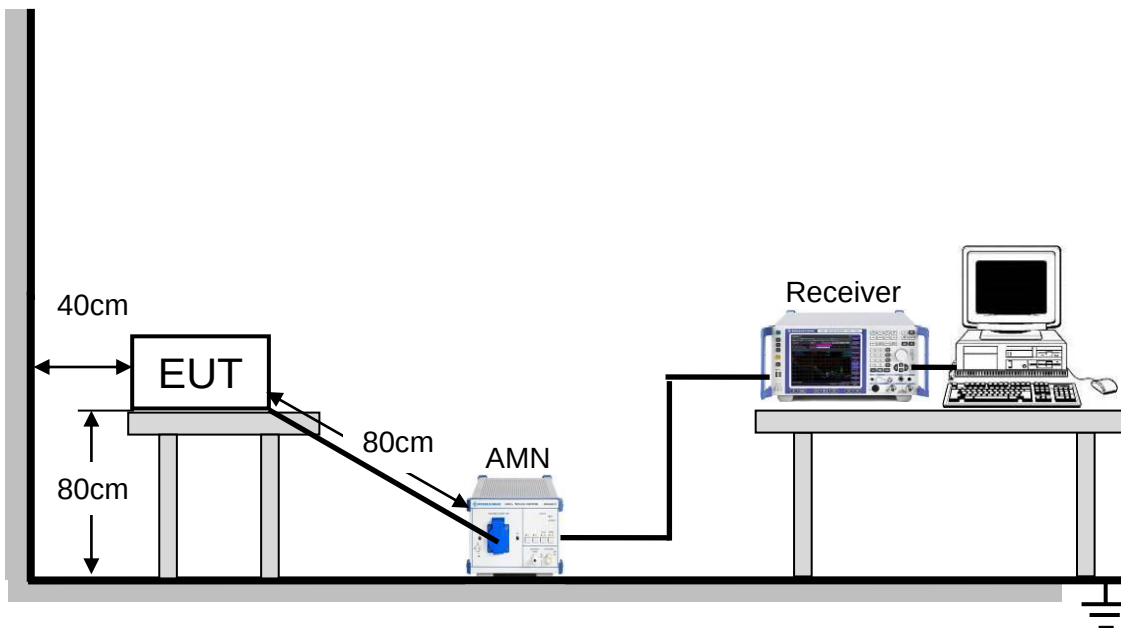
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

7.1.2. Test Procedure

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item:EUT Test Photos.

7.1.3. Test Setup



For the actual test configuration, please refer to Appendix I: Photographs of the Test Configuration.

7.1.4. Test Environment

Temperature:	26.5°C
Humidity:	54%
ATM pressure:	101kPa

7.1.5. Test Mode

Pre-test Mode:	Mode 1
Final Test Mode:	Mode 1

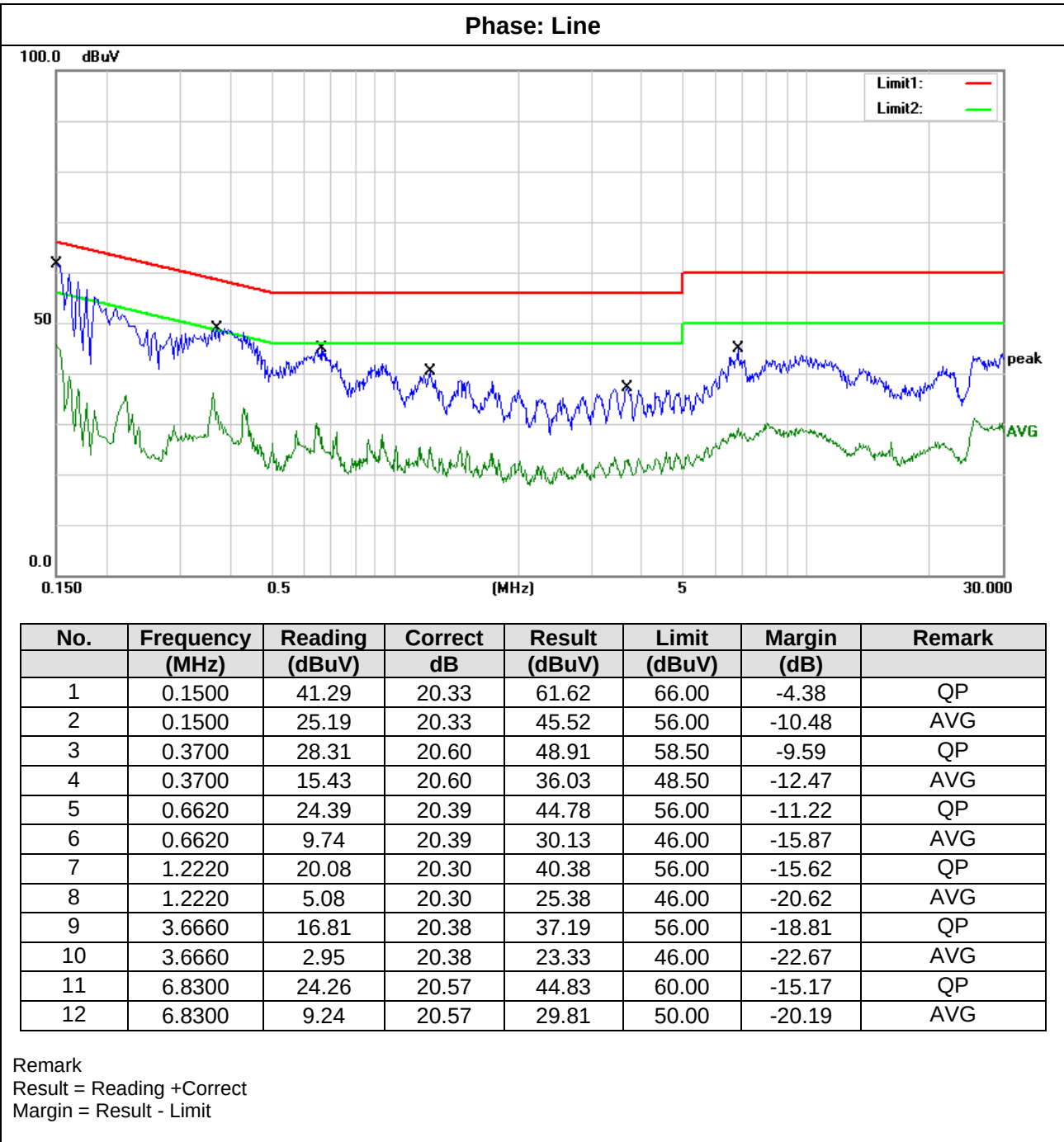
Note: According to pre-test results, the final test mode is each independent function's worst case and only shown in the report.



7.1.6. Test Results

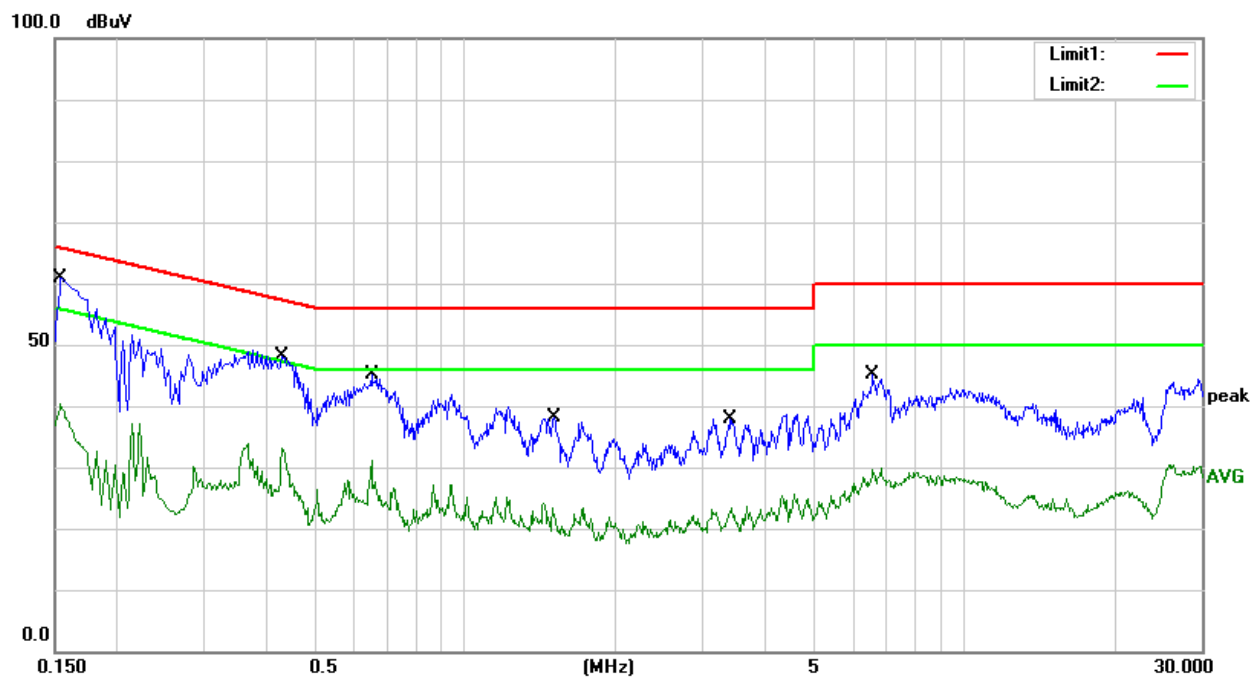
Model Name: PDT-1SUB-HD-CR

Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz





Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz

Phase: Neutral

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1540	40.64	20.33	60.97	65.78	-4.81	QP
2	0.1540	20.11	20.33	40.44	55.78	-15.34	AVG
3	0.4300	27.50	20.54	48.04	57.25	-9.21	QP
4	0.4300	12.50	20.54	33.04	47.25	-14.21	AVG
5	0.6500	24.84	20.40	45.24	56.00	-10.76	QP
6	0.6500	10.73	20.40	31.13	46.00	-14.87	AVG
7	1.5060	17.71	20.30	38.01	56.00	-17.99	QP
8	1.5060	3.93	20.30	24.23	46.00	-21.77	AVG
9	3.3820	17.60	20.37	37.97	56.00	-18.03	QP
10	3.3820	3.32	20.37	23.69	46.00	-22.31	AVG
11	6.5580	24.52	20.56	45.08	60.00	-14.92	QP
12	6.5580	9.24	20.56	29.80	50.00	-20.20	AVG

Remark

Result = Reading +Correct

Margin = Result – Limit



7.2. Radiated Disturbance Measurement

7.2.1. Limits of radiated disturbance measurement

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	☐ Class A		☒ Class B
	Field strength (dBuV/m) (at 10m)	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 - 88	39	49.5	40
88 - 216	43.5	54	43.5
216 - 960	46.4	56.9	46
Above 960	49.5	60	54

Above 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	☐ Class A				☐ Class B	
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

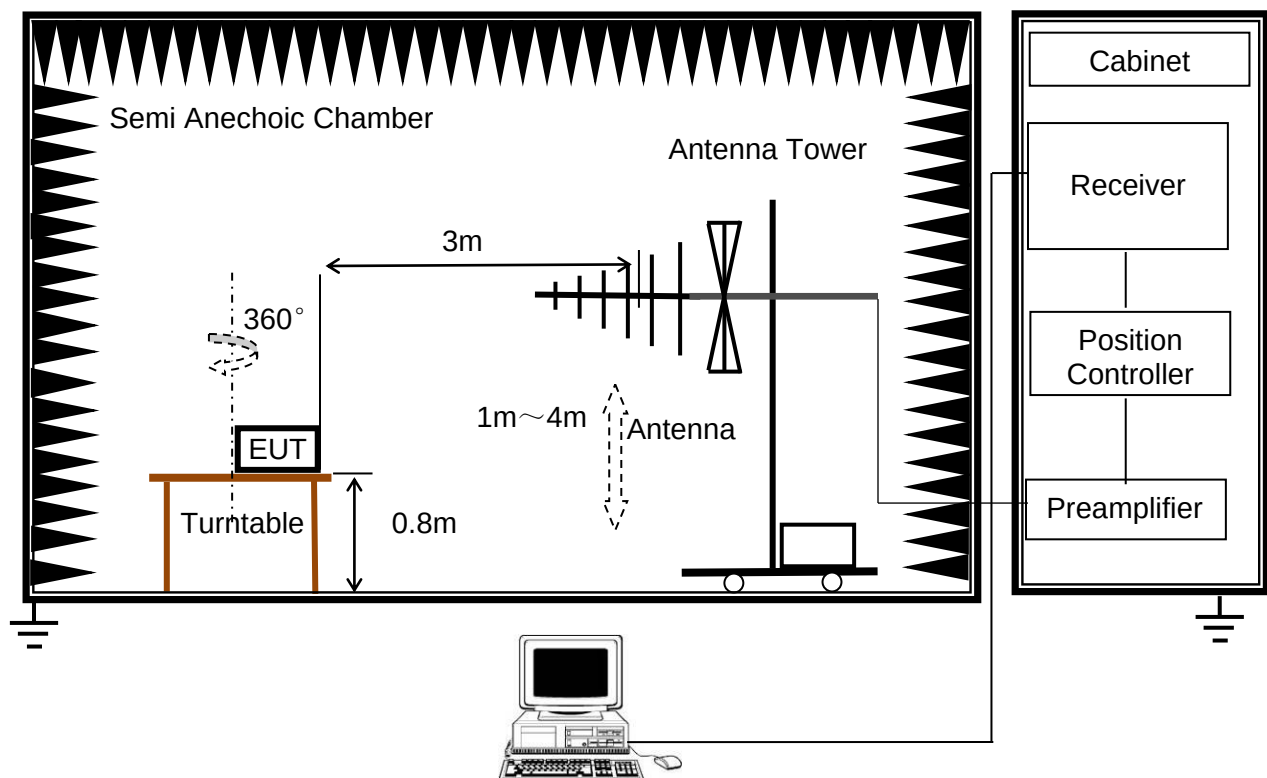
- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m),
3m Emission level = 10m Emission level + 20log(10m/3m);
- (4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use),
Margin Level = Measurement Value - Limit Value.

7.2.2. Test Procedure

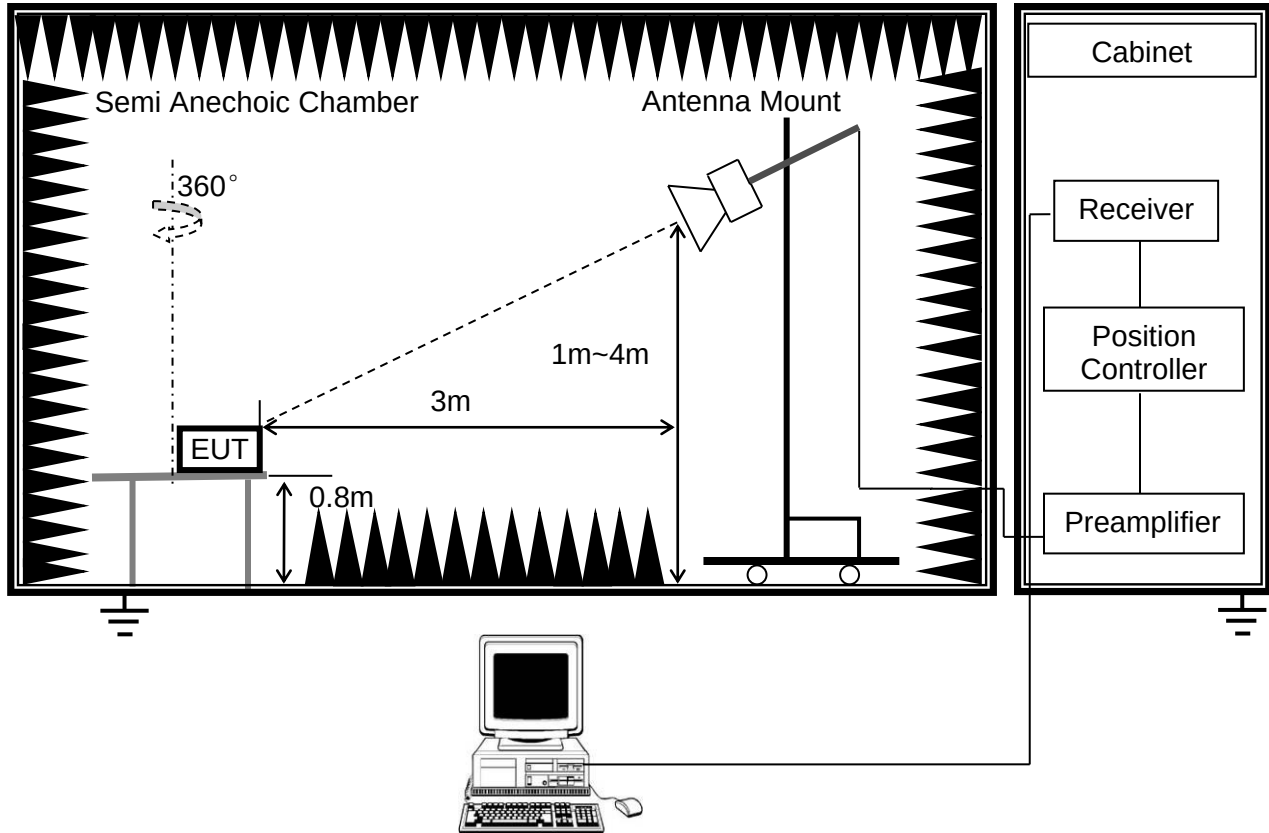
- The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For the actual test configuration, please refer to the related Item:EUT Test Photos.

7.2.3. Test Setup

(a) Radiated Disturbance Test Set-Up Frequency 30MHz - 1GHz



(b) Radiated Disturbance Test Set-Up Frequency above 1GHz



For the actual test configuration, please refer to Appendix I: Photographs of the Test Configuration.

7.2.4. Test Environment

Radiated Disturbance - below 1 GHz		Radiated Disturbance - above 1 GHz	
Temperature:	23.3°C	Temperature:	N/A
Humidity:	52%	Humidity:	N/A
ATM pressure:	101kPa	ATM pressure:	N/A

7.2.5. Test Mode

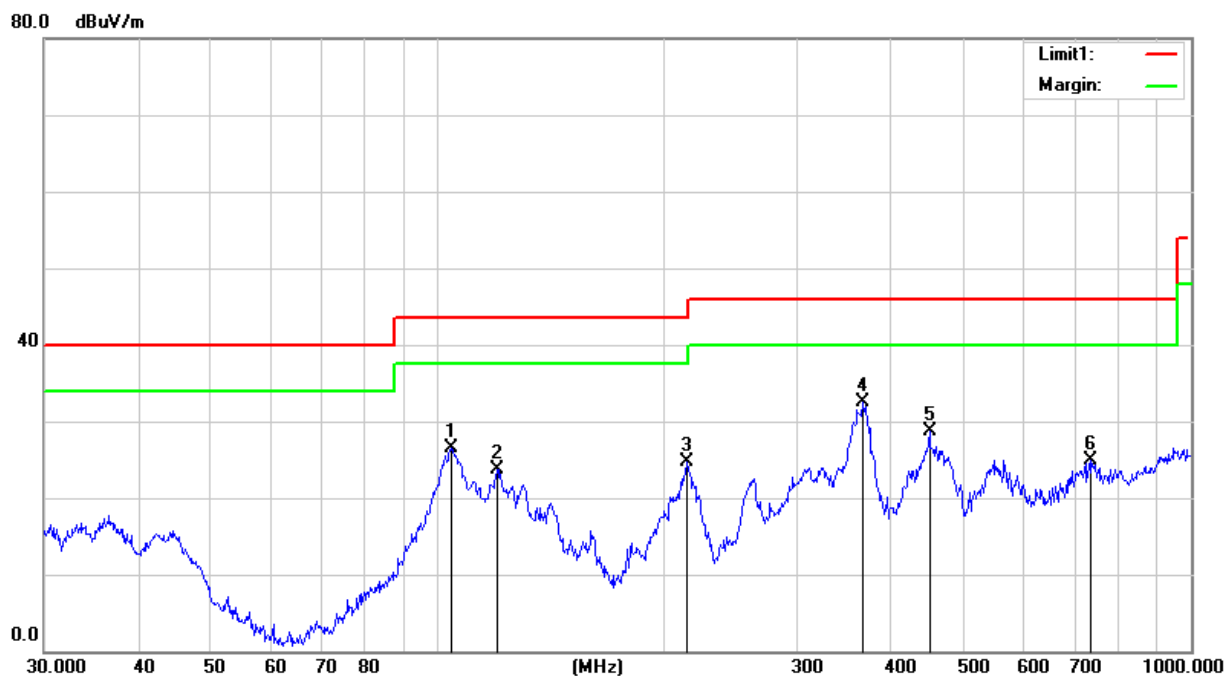
Radiated Disturbance - below 1 GHz		Radiated Disturbance - above 1 GHz	
Pre-test Mode:	Mode 1	Pre-test Mode:	N/A
Final Test Mode:	Mode 1	Final Test Mode:	N/A

Note: According to pre-test results, the final test mode is each independent function's worst case and only shown in the report.

**7.2.6. Test Results – below 1GHz**

Model Name: PDT-1SUB-HD-CR

Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz

Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	104.1701	46.37	-19.81	26.56	43.50	-16.94	QP
2	119.8555	42.01	-18.26	23.75	43.50	-19.75	QP
3	213.7633	45.41	-20.78	24.63	43.50	-18.87	QP
4	366.8231	46.84	-14.34	32.50	46.00	-13.50	QP
5	449.5557	41.05	-12.34	28.71	46.00	-17.29	QP
6	734.4913	29.87	-4.98	24.89	46.00	-21.11	QP

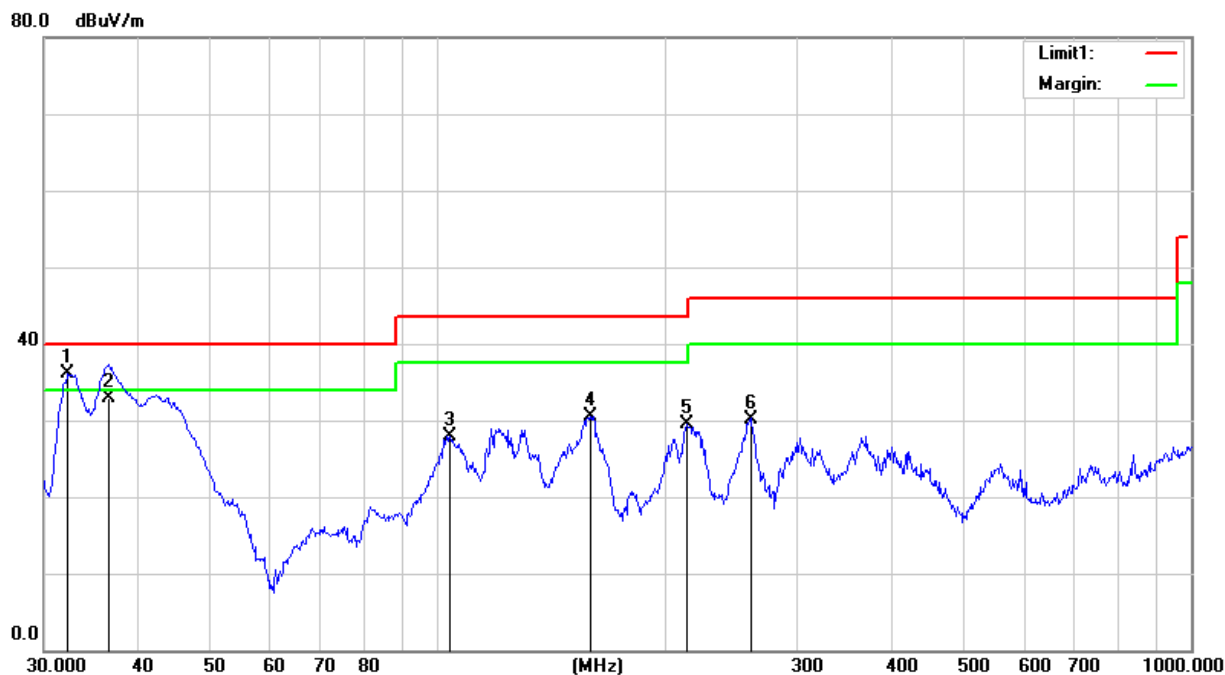
Remark

Result = Reading + Correct

Margin = Result – Limit



Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz

Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.2924	48.43	-12.30	36.13	40.00	-3.87	QP
2	36.5585	47.68	-14.69	32.99	40.00	-7.01	QP
3	103.8054	47.63	-19.82	27.81	43.50	-15.69	QP
4	159.2250	49.08	-18.63	30.45	43.50	-13.05	QP
5	214.5141	50.15	-20.63	29.52	43.50	-13.98	QP
6	260.1444	44.89	-14.69	30.20	46.00	-15.80	QP

Remark

Result = Reading +Correct

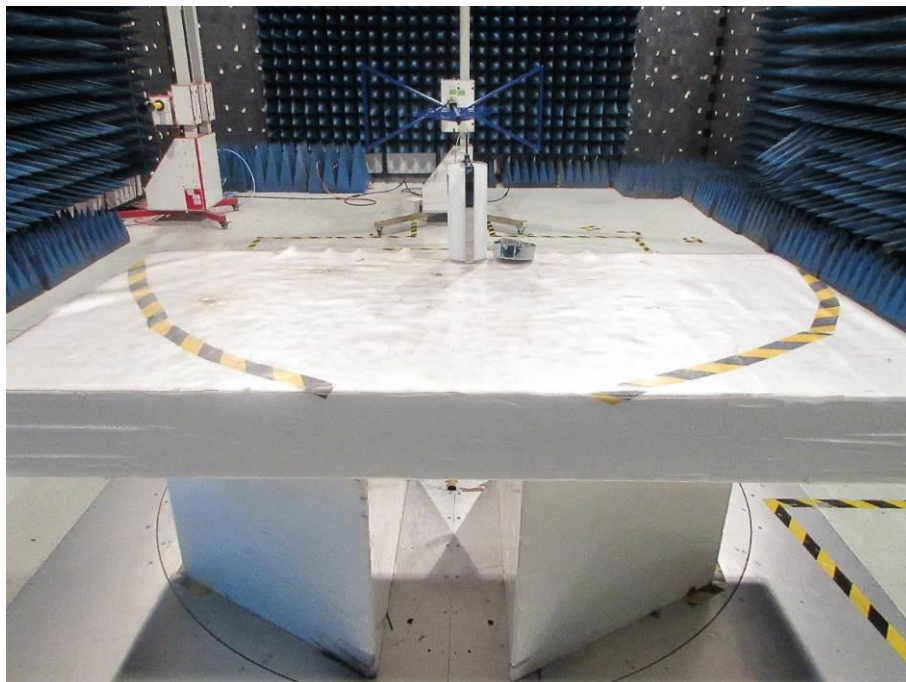
Margin = Result – Limit

Appendix I: Photographs of Test Configuration

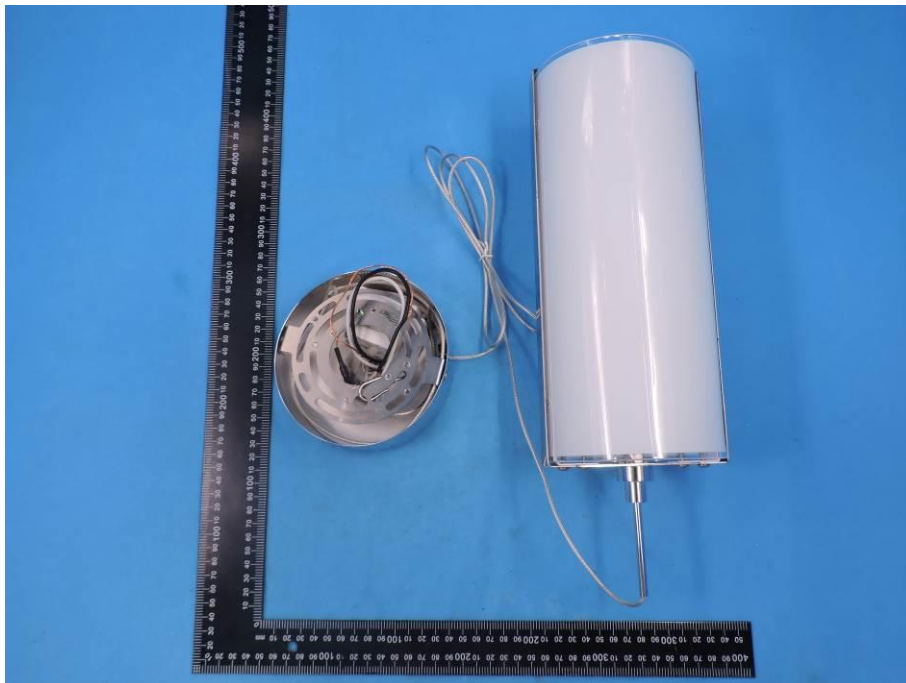
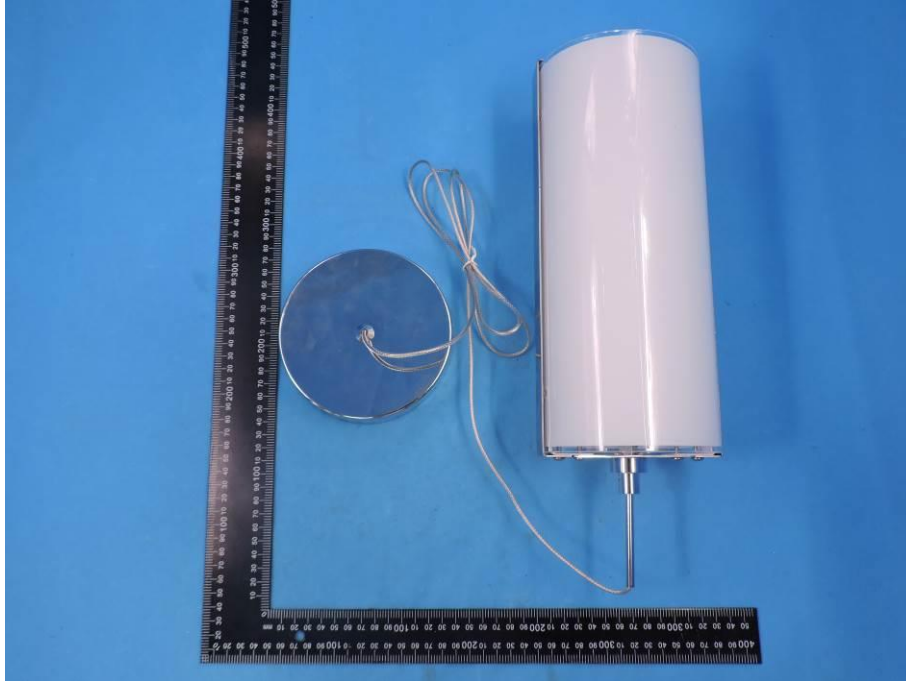
Conducted Disturbance

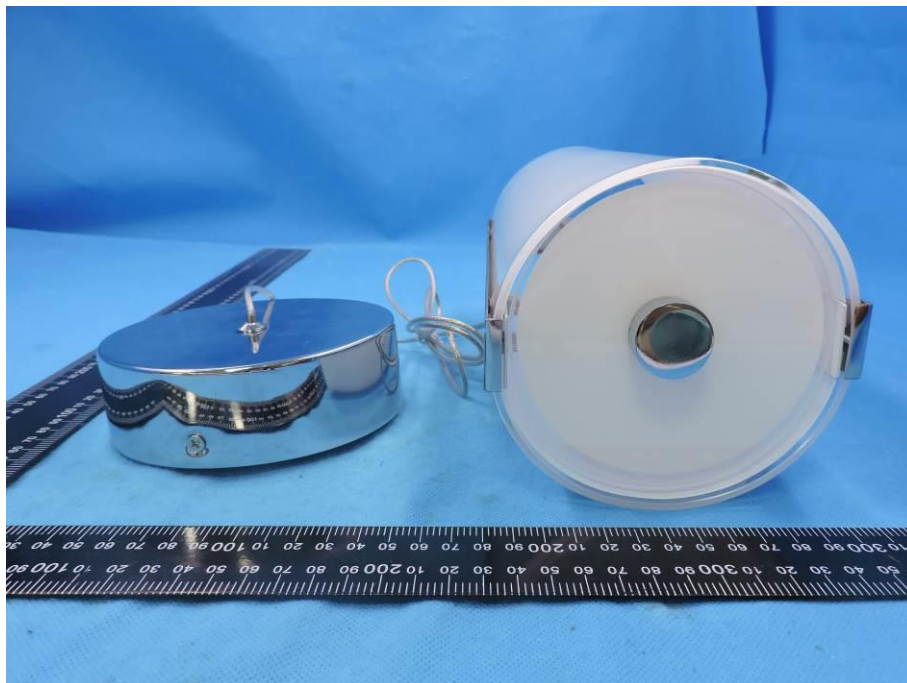
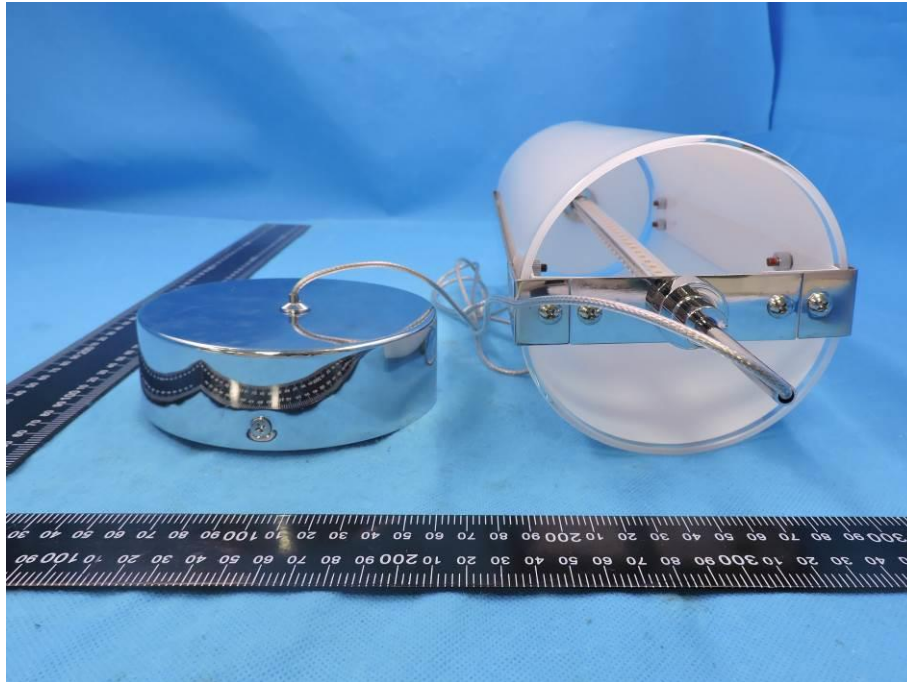


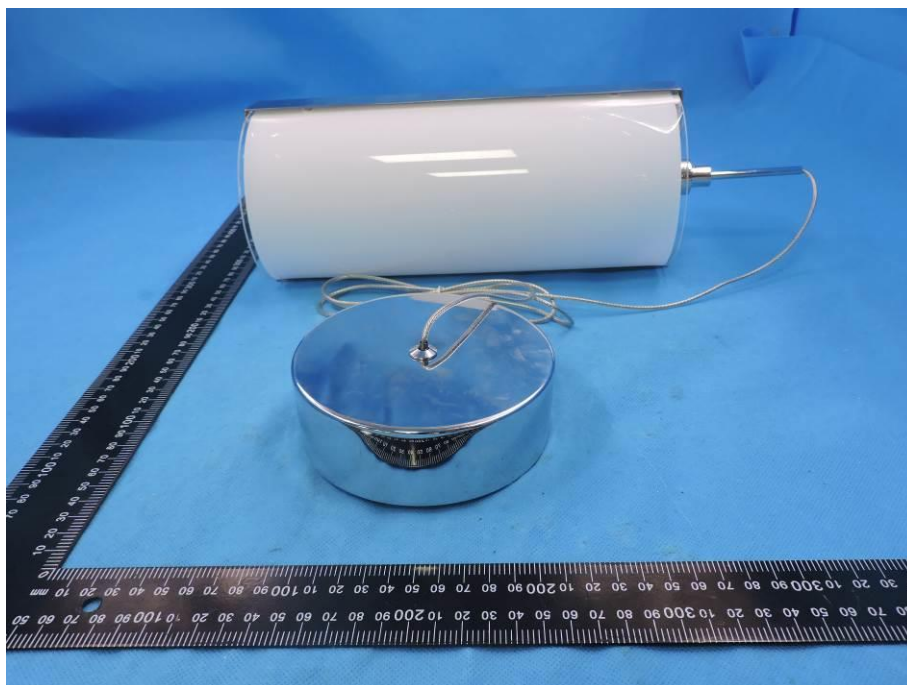
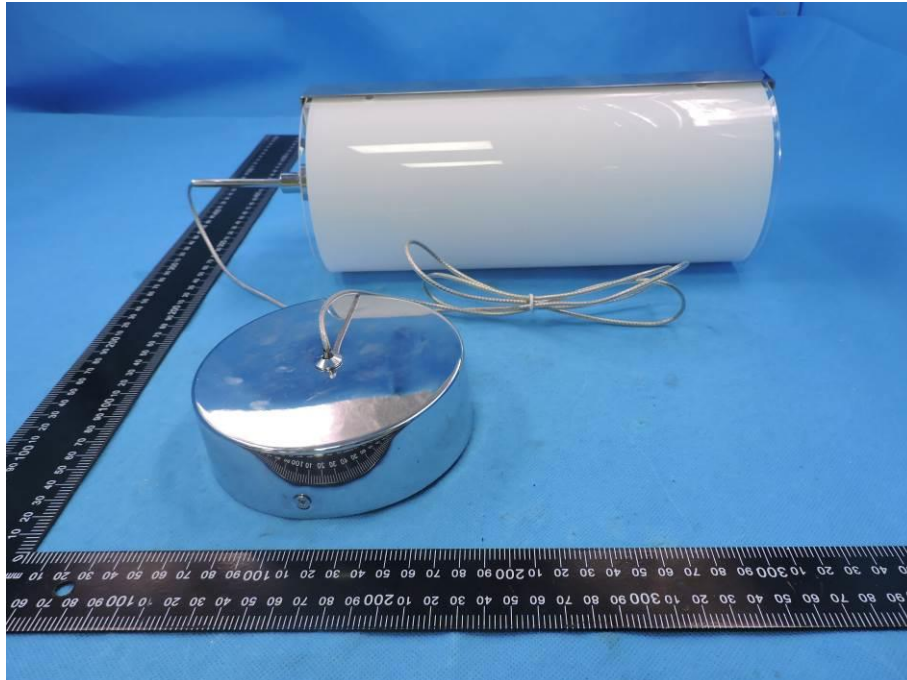
Radiated Disturbance below 1GHz

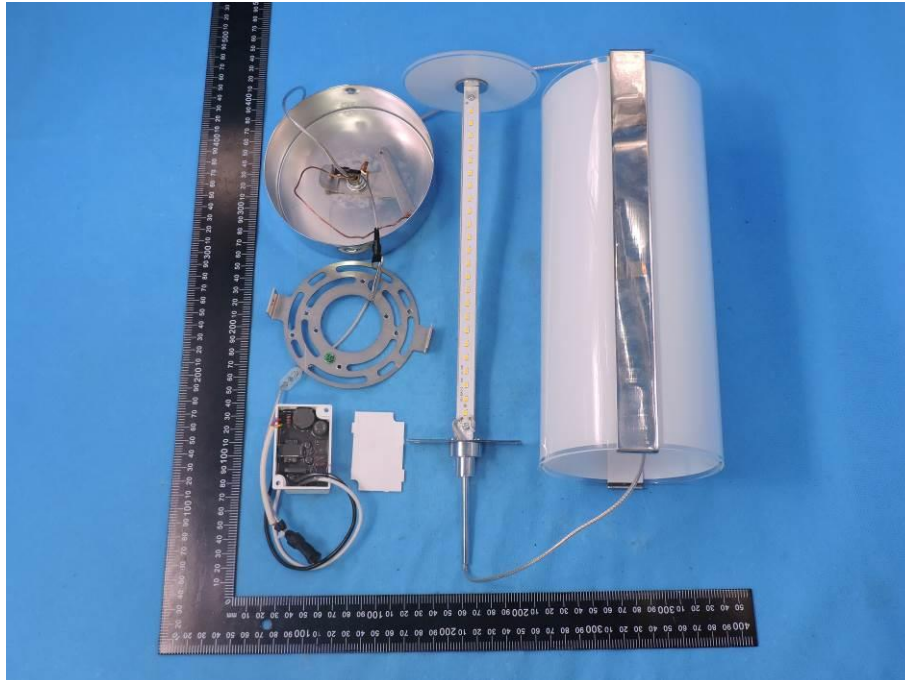


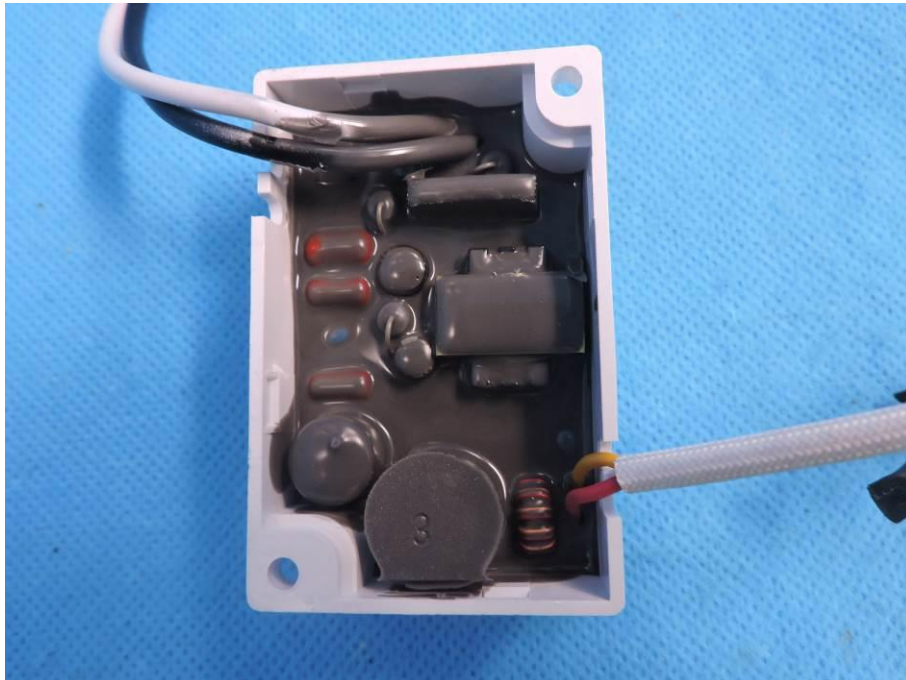
Appendix II: Photographs of the EUT

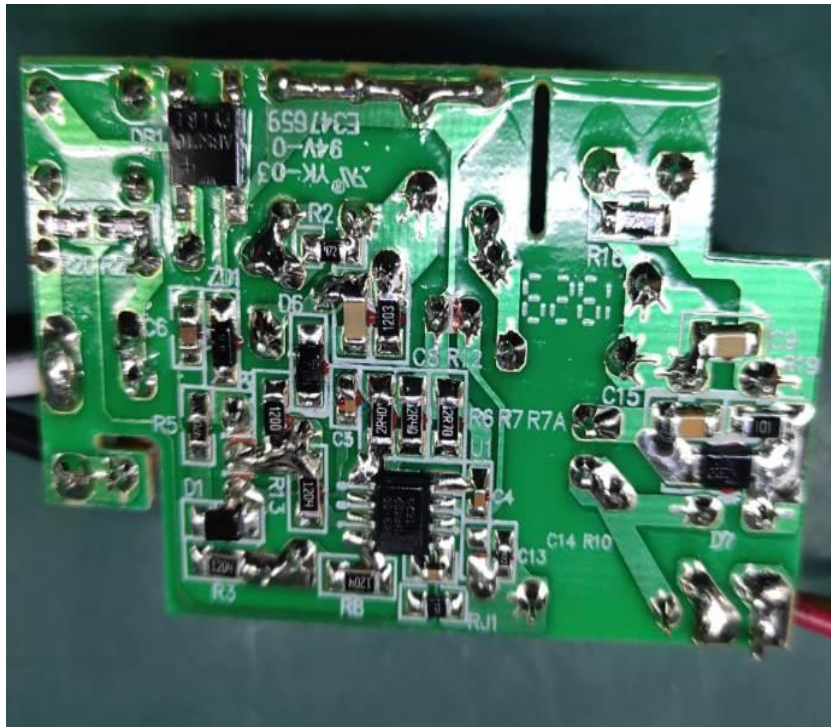
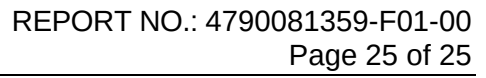












UL-CCIC Company Ltd. Suzhou Branch

Form No.:TRF-GZEMC-002_V1.1
Form Issued: 2019-12-06
Form Revised: 2020-01-13