

**TEST REPORT****FOR****AC/DC Power Supply****BRAND :** **MODEL : TPP 15-105A-J****SERIES MODEL : Refer to item 5.1 for more details****REPORT NUMBER : 4790771479A-US-E1-V0****ISSUE DATE : Mar. 22, 2023****Prepared for****TRACO ELECTRONIC AG****Sihlbruggstrasse 111 CH-6340 Baar Switzerland****Prepared by****Underwriters Laboratories Taiwan Co., Ltd.****Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township,  
Hsinchu County, Taiwan****Tel: +886.2.2896.7790****Fax: +886.3.583.7948****Website: www.ul.com**

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### **Revision History**

<b>Rev.</b>	<b>Issue Date</b>	<b>Revisions</b>	<b>Revised By</b>
--	Mar. 22, 2023	Initial Issue	Cindy Hsin

Summary of Test Results				
Standard	Test Item	Limit	Result	Remark
FCC Part 18 MP-5 : 1986	Conducted emission	Refer to 6.1.1	PASS	N/A
	Radiated emission (9kHz to 30 MHz)	Refer to 6.2.1	PASS	N/A
	Radiated emission below 1 GHz	Refer to 6.3.1	PASS	N/A
	Radiated emission above 1 GHz	Refer to 6.4.1	N/A	(Note 1)

Note 1 : Since the highest frequency of EUT is less than 108 MHz, the measurement above 1 GHz is unnecessary.

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** TRACO ELECTRONIC AG  
Sihlbruggstrasse 111 CH-6340 Baar Switzerland

**MANUFACTURER** TRACO ELECTRONIC AG  
Sihlbruggstrasse 111 CH-6340 Baar Switzerland

**EUT DESCRIPTION:** AC/DC Power Supply

**BRAND:**



**MODEL:** TPP 15-105A-J

**SERIES MODEL :** Refer to item 5.1 for more details

**DATE TESTED:** Nov. 29, 2022 ~ Dec. 16, 2022

APPLICABLE STANDARDS	
STANDARDS	TEST RESULTS
FCC Part 18 MP-5 : 1986	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:

A handwritten signature in blue ink, appearing to read "Sally Lu".

Sally Lu Date : Mar. 22, 2023  
Project Handler

Approved and Authorized By:

A handwritten signature in black ink, appearing to read "Hank Yang".

Hank Yang Date : Mar. 22, 2023  
Laboratory Engineer Associate

## 2. TEST METHODOLOGY

All tests were performed in accordance with the correspond to each test item's procedure of this report and refer to each standard.

## 3. FACILITIES AND ACCREDITATION

<b>Test Location</b>	Underwriters Laboratories Taiwan Co., Ltd.,
<b>Address</b>	Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
<b>Description</b>	All measurement facilities use to collect the measurement data are located at Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

## 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

The decision rule refer to CISPR 16-4-2 clause 4.2 accordingly. If  $U_{lab}$  is less than  $U_{CISPR}$ , then :

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit ;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.


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

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor  $k=2$ .

Test Item	Measurement Frequency Range	K	U(dB)
Conducted disturbance at mains terminals ports	9kHz ~ 30MHz	2	1.9
966-1 Test Site			
Radiated disturbance 9kHz to 30MHz	9kHz ~ 30MHz	2	1.9
Radiated disturbance 30 to 1000MHz	30MHz ~ 1000MHz	2	5.9

## 5. EQUIPMENT UNDER TEST

### 5.1. Description of EUT

<b>EUT Name:</b>	AC/DC Power Supply
<b>Brand:</b>	
<b>Model:</b>	TPP 15-105A-J
<b>Series Model:</b>	TPP 15-103abc(x), TPP 15-105abc(x), TPP 15-107abc(x), TPP 15-109abc(x), TPP 15-112abc(x), TPP 15-115abc(x), TPP 15-118abc(x), TPP 15-124abc(x), TPP 15-128abc(x), TPP 15-136abc(x), TPP 15-148abc(x), TPP 15-153abc(x)
<b>Power Rating:</b>	From AC power
<b>Highest Frequency within EUT:</b>	Less than 108MHz
<b>Condition of EUT:</b>	Mass-Production Test sample
<b>Sample ID:</b>	5574627
<b>Date Of Sample Received:</b>	Nov. 28, 2022

Note :

1. The models difference table as below:

Model Number	Input Range (Vac)	Output Voltage (Vdc)
TPP 15-103abc(x)	85 ~ 264	3.3
TPP 15-105abc(x)	85 ~ 264	5
TPP 15-107abc(x)	85 ~ 264	7.5
TPP 15-109abc(x)	85 ~ 264	9
TPP 15-112abc(x)	85 ~ 264	12
TPP 15-115abc(x)	85 ~ 264	15
TPP 15-118abc(x)	85 ~ 264	18
TPP 15-124abc(x)	85 ~ 264	24
TPP 15-128abc(x)	85 ~ 264	28
TPP 15-136abc(x)	85 ~ 264	36
TPP 15-148abc(x)	85 ~ 264	48
TPP 15-153abc(x)	85 ~ 264	53
a can be B or blank b can be A, A2, or blank c can be -J, -M, -D or blank (x) can be six variables, each variable may be A through Z, 0 through 9, dash, any punctuation marks or blank. ※ All the model's rated voltage is 100 ~ 240 Vac; input range is 85 ~ 264 Vac.		



2. This supplemental report was issued based on the original report with report number 4790423395A-US-E1-V0, the differences were as below:
  - Change model, series model, applicant, manufacturer and brand.
  - Remove EMI data from Mode 2.
3. According to above conditions, there is no addition test has to be performed. All test data are copied from the original test report (Report No.: 4790423395A-US-E1-V0), and all data are verified to meet the requirements.

## 5.2. Test Mode

The pre-test mode:

Mode	Description	Conducted Emission	Radiated Emission
Mode 1	Full Load (TPP 15-105A-J)	v	v

After pre-testing, the final test mode was displayed as below table.

Test Items		Test Mode
Emission	Conducted Emission	Mode 1
	Radiated Emission	Mode 1

Note : The customer only provided TPP 15-105A-J for the EMI test.

## 5.3. EUT Operation Test Setup

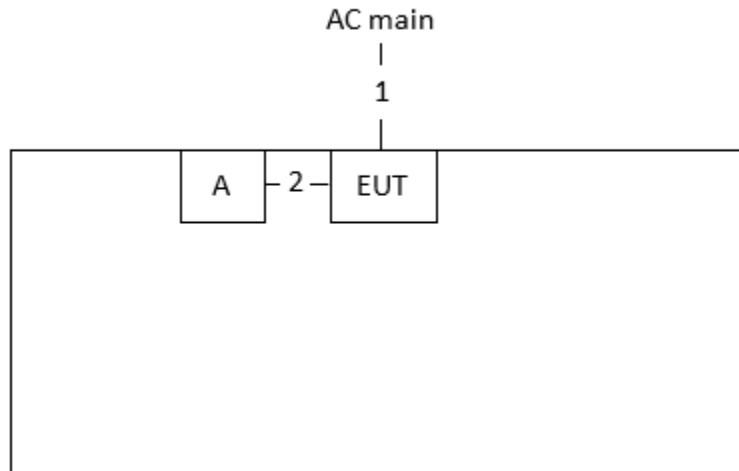
- a. The EUT was linked to resistance load with full load during the testing.
- b. Power on the EUT and run test.

## 5.4. Accessory

N/A

## 5.5. Block diagram showing the configuration of system tested

Mode 1 & 2:



## 5.6. Description of support units

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	FCC ID	Note
A	Resistance Load	N/A	N/A	N/A	N/A	Provided by customer

Item	Connection	Shielded Type	Note
1	AC power cable	Non-shielded	Provided by customer
2	DC Power Wire	Non-shielded	Provided by customer

## 5.7. Measuring Instrument List

Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Expired date
<b>Conducted Disturbance</b>					
EMI Test Receiver	Rohde & Schwarz	ESR7	101753	2022/11/10	2023/11/9
Two-Line V-Network	Rohde & Schwarz	ENV216	102136	2022/8/29	2023/8/28
Two-Path V-LISN	SCHWARZBECK	NSLK 8127	8127-946	2022/11/10	2023/11/9
Impuls-Begrenzer Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102219-Qt	2022/8/30	2023/8/29
Cable	TITAN	CFD200	T0732ACFD20020A300-2	2022/4/9	2023/4/8
Measurement Software	Farad	EZ-EMC Ver: UL-3A1.2	N/A	N/A	N/A
<b>Radiated Disturbance</b>					
<b>966-1</b>					
EMI Test Receiver	Rohde & Schwarz	ESR7	101755	2021/12/6	2022/12/5
				2022/12/7	2023/12/6
Loop Antenna	ETS Lindgren	6502	00213440	2021/12/23	2022/12/22
Trilog-Broadband Antenna with 5dB Attenuator	SCHWARZBECK	VULB 9168 & N-6-05	774 & AT-N0538	2022/2/8	2023/2/7
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	1686	2021/12/13	2022/12/12
				2022/12/9	2023/12/8
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	759	2021/12/1	2022/11/30
				2022/12/5	2023/12/4
Preamplifier	EMC Instrument	EMC330E	980404	2022/5/13	2023/5/12
Preamplifier	EMC Instrument	EMC051835BE	980407	2022/1/14	2023/1/13
Preamplifier	EMC Instrument	EMC184045SE	980408	2022/3/9	2023/3/8
EXA Spectrum Analyzer	Keysight Technologies	N9010A	MY56070821	2021/12/8	2022/12/7
				2022/12/14	2023/12/13
Cables	UltraPhase&EMC Instrument	A1K50-UP0358-A1K50-1500&EMC106-NM-SM-2500/8000	170111-3&170104/170223	2022/1/18	2023/1/17
Cables	UltraPhase / Taitan	K1K50-UP0264-K1K50-500/2500/T0712AT340A12A400	1701214-3/170214-3/J09004	2022/3/28	2023/3/27
Measurement Software	Farad	EZ-EMC Ver: UL-3A1	N/A	N/A	N/A

## 6. EMISSION TEST

### 6.1. Conducted Disturbance Measurement

#### 6.1.1. Limits of conducted disturbance voltage and common mode disturbance

All Induction cooking ranges and ultrasonic equipment :

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.009-0.05	110	—
0.05-0.15	90-80*	—
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

All other part 18 consumer devices :

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

RF lighting devices :

Frequency (MHz)	Maximum RF line voltage measured with a 50 uH/50 ohm LISN (uV)
Non-consumer equipment:	
0.45 to 1.6	1,000
1.6 to 30	3,000
Consumer equipment:	
0.45 to 2.51	250
2.51 to 3.0	3,000
3.0 to 30	250

Note:

The tighter limit applies at the band edges.

The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

Margin Level = Measurement Value - Limit Value

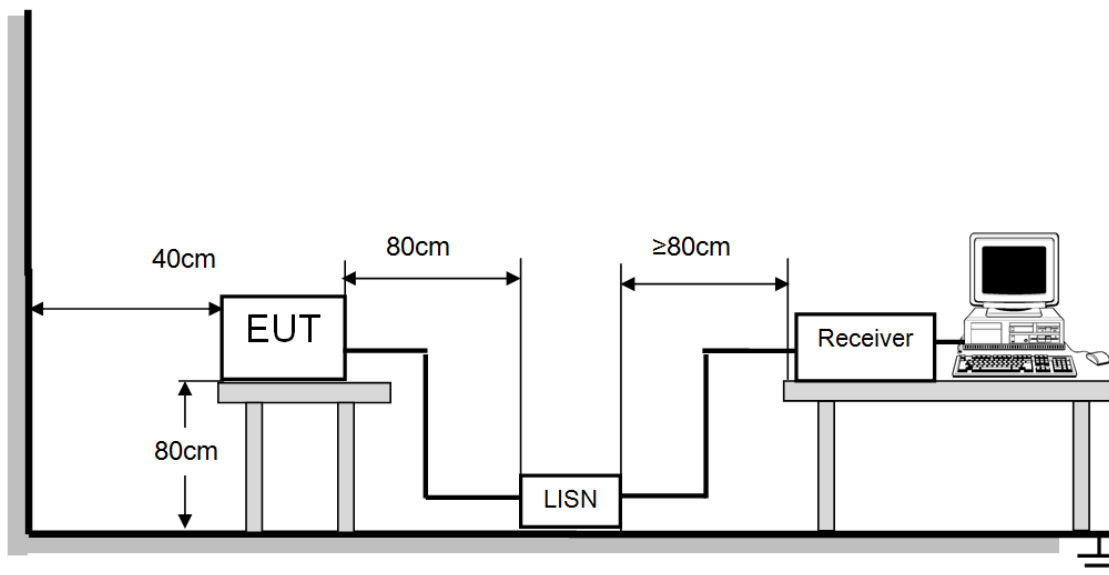
The following table is the setting of the spectrum or receiver

Receiver Parameters	Setting
Attenuation	10 dB
IF Bandwidth (below 150kHz)	200Hz
IF Bandwidth (150kHz to 30MHz)	9kHz

### 6.1.2. 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 at least 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.

### 6.1.3. Test Setup

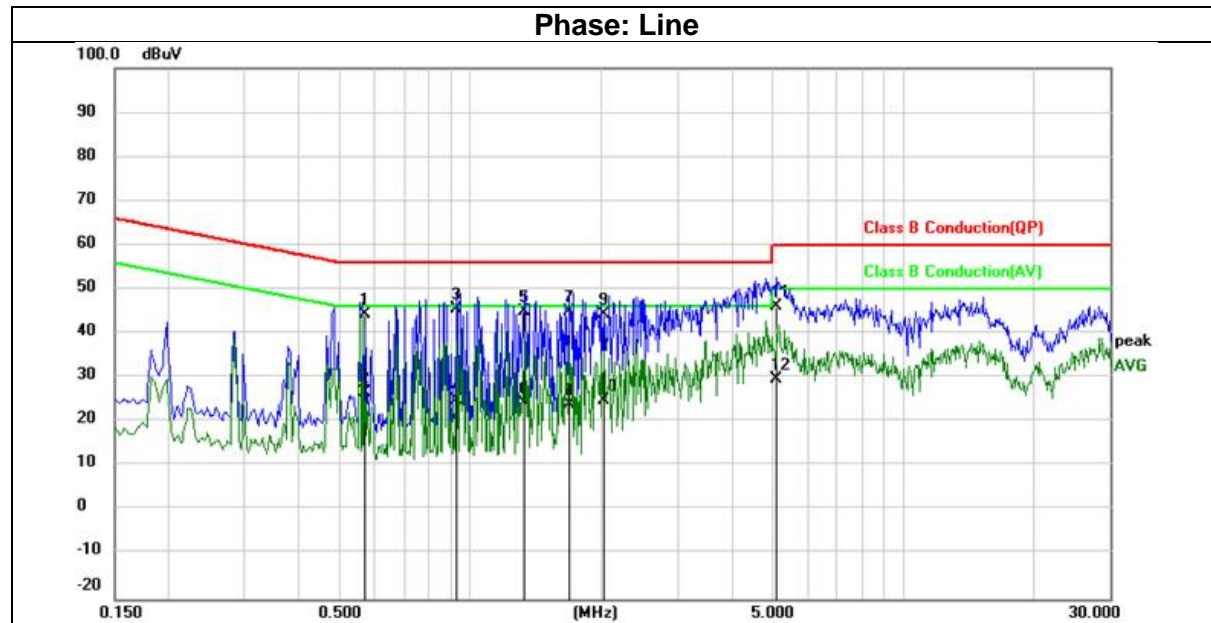


For the actual test configuration, please refer to Appendix I: Photographs of the Test Configuration.

#### 6.1.4. Test Result

Mode 1 ; LISN (150k-30MHz)

Test Mode:	Mode 1	Temperature:	24°C
Test Voltage:	AC120V/60Hz	Humidity:	62%RH
Tested By:	Rupert Huang	Test Date:	Dec. 16, 2022



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.5695	24.72	19.54	44.26	56.00	-11.74	QP
2	0.5695	7.21	19.54	26.75	46.00	-19.25	AVG
3	0.9289	25.92	19.56	45.48	56.00	-10.52	QP
4	0.9289	5.43	19.56	24.99	46.00	-21.01	AVG
5	1.3243	25.43	19.56	44.99	56.00	-11.01	QP
6	1.3243	4.64	19.56	24.20	46.00	-21.80	AVG
7	1.6975	25.24	19.58	44.82	56.00	-11.18	QP
8	1.6975	4.36	19.58	23.94	46.00	-22.06	AVG
9	2.0292	24.68	19.58	44.26	56.00	-11.74	QP
10	2.0292	5.22	19.58	24.80	46.00	-21.20	AVG
11	5.1022	26.64	19.65	46.29	60.00	-13.71	QP
12	5.1022	10.14	19.65	29.79	50.00	-20.21	AVG

Remark:

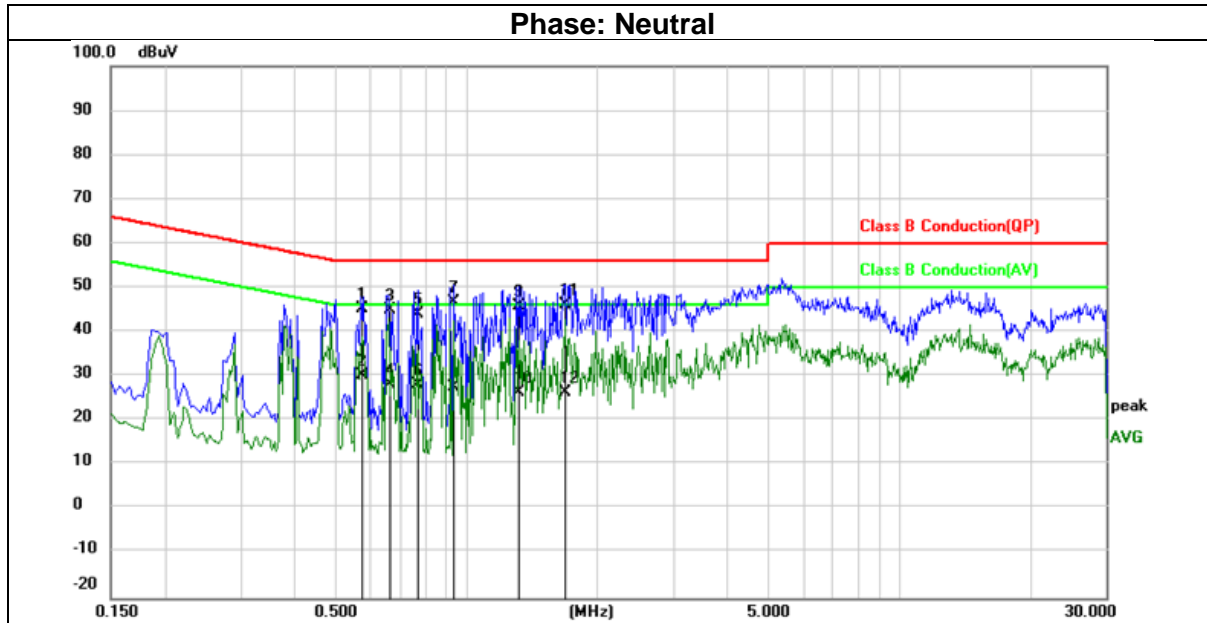
Result = Reading +Correct.

Correct = Insertion Loss + Cable Loss + Attenuator Factor.

Margin = Result - Limit.



Test Mode:	Mode 1	Temperature:	24°C
Test Voltage:	AC120V/60Hz	Humidity:	62%RH
Tested By:	Rupert Huang	Test Date:	Dec. 16, 2022



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.5724	25.70	19.55	45.25	56.00	-10.75	QP
2	0.5724	10.61	19.55	30.16	46.00	-15.84	AVG
3	0.6650	25.30	19.55	44.85	56.00	-11.15	QP
4	0.6650	8.73	19.55	28.28	46.00	-17.72	AVG
5	0.7695	24.42	19.56	43.98	56.00	-12.02	QP
6	0.7695	8.73	19.56	28.29	46.00	-17.71	AVG
7	0.9373	27.14	19.56	46.70	56.00	-9.30	QP
8	0.9373	7.93	19.56	27.49	46.00	-18.51	AVG
9	1.3257	26.30	19.56	45.86	56.00	-10.14	QP
10	1.3257	6.89	19.56	26.45	46.00	-19.55	AVG
11	1.6972	26.44	19.58	46.02	56.00	-9.98	QP
12	1.6972	6.86	19.58	26.44	46.00	-19.56	AVG

Remark:

Result = Reading + Correct.

Correct = Insertion Loss + Cable Loss + Attenuator Factor.

Margin = Result - Limit.

## 6.2. Radiated Disturbance Measurement (9kHz to 30MHz)

### 6.2.1. Limits of radiated disturbance measurement

Equipment	Operating frequency	RF power (watts)	Field strength limit (uV/m)	Distance (meters)
Any types unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25* SQRT(power/500)	300 (*)
	Any non-ISM frequency	Below 500 500 or more	15 15* SQRT(power/500)	300 (*)
Industrial heaters and RF stabilized arc welders	On or below 5,725MHz	Any	10	1600 (**)
	Above 5,725MHz	Any	10	
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	
Ultrasonic	Below 490kHz	Below 500 500 or more	2400/F(kHz) 2400/F(kHz)* SQRT(power/500)	300 (***)
	490 to 1600kHz	Any	24000/F(kHz)	30
	Above 1600kHz	Any	15	
Induction cooking ranges	Below 90kHz	Any	1500	30 (****)
	On or above 90kHz	Any	300	

#### NOTE:

(\*) Field strength may not exceed 10  $\mu$ V/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

(\*\*) Reduced to the greatest extent possible.

(\*\*\*) Field strength may not exceed 10  $\mu$ V/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

(\*\*\*\*) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

Emission level (dB $\mu$ V/m)=20\*log Emission level (uV/m).

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.

### **6.2.2. Test Procedure**

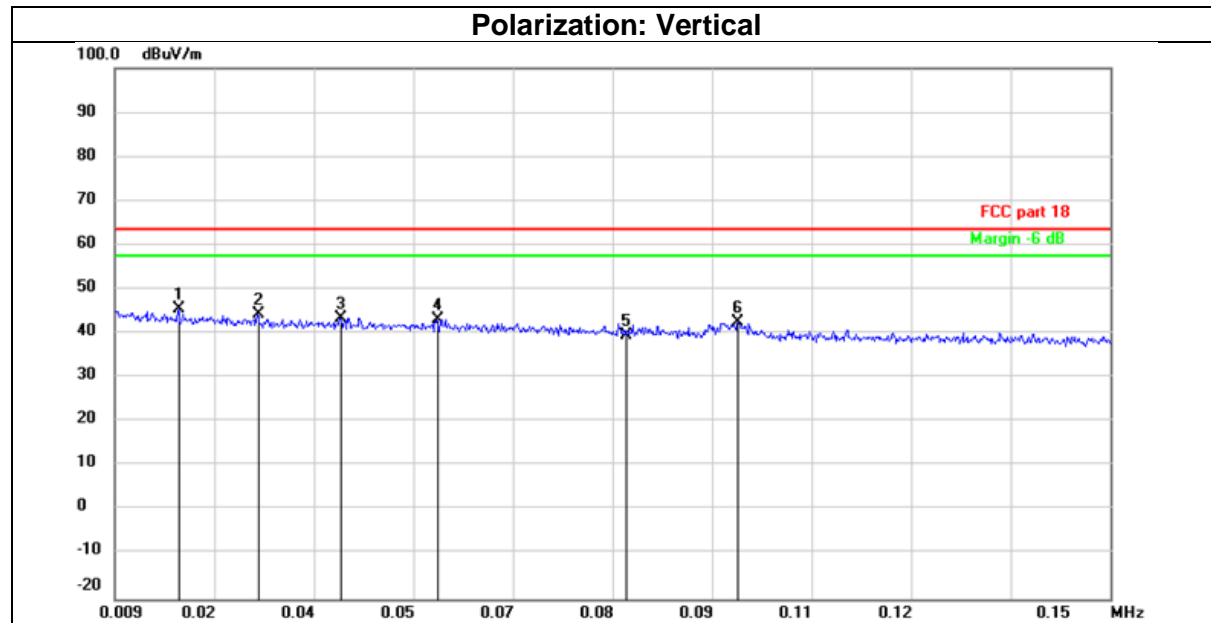
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall fix at 2m.
- c. The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then average detector mode re-measured.
- d. If the Peak Mode measured value compliance with and lower than limit, the EUT shall be deemed to meet Limits and then no additional AVG mode measurement performed.
- e. For the actual test configuration, please refer to the related Item: EUT Test Photos.



## 6.2.4. Test Result

Mode 1 ; 9k-150kHz

Test Mode:	Mode 1	Temperature:	21 °C
Test Voltage:	AC 120V/60Hz	Humidity:	40%RH
Tested By:	Duncan Wang	Test Date:	Nov. 29, 2022



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0180	29.33	16.16	45.49	63.52	-18.03	PK
2	0.0293	30.04	14.16	44.20	63.52	-19.32	PK
3	0.0410	30.03	13.57	43.60	63.52	-19.92	PK
4	0.0546	30.23	13.05	43.28	63.52	-20.24	PK
5	0.0815	27.33	12.36	39.69	63.52	-23.83	PK
6	0.0973	30.47	11.96	42.43	63.52	-21.09	PK

Remark:

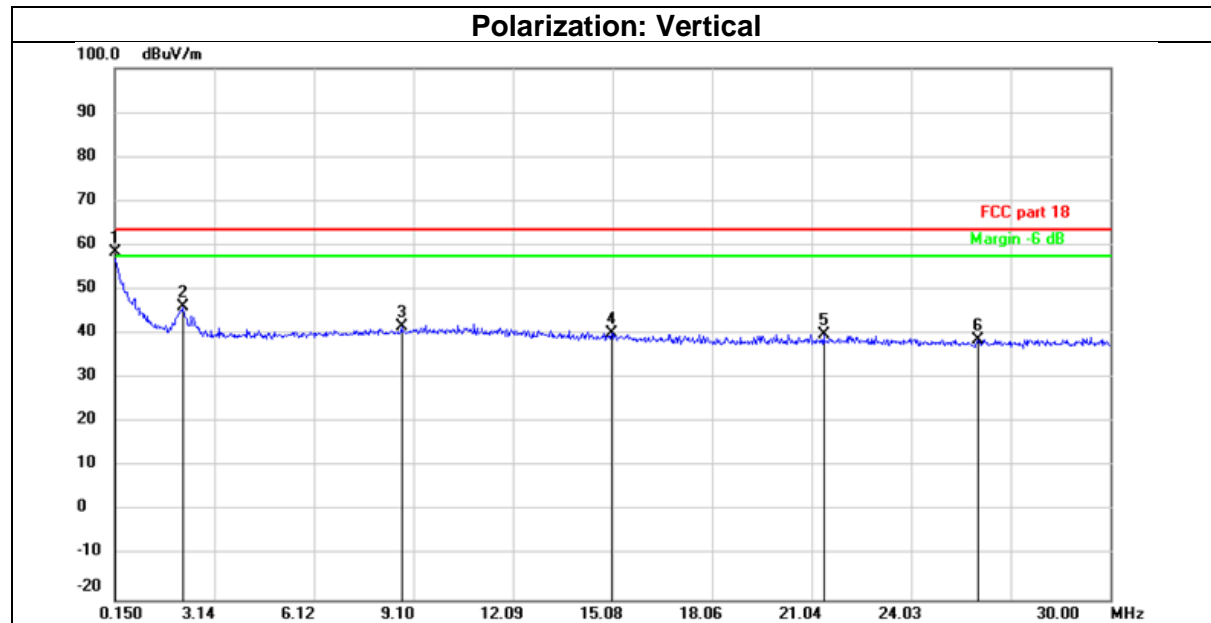
Result = Reading +Correct.

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Margin = Result - Limit.

Mode 1 ; 150k-30MHz

Test Mode:	Mode 1	Temperature:	25°C
Test Voltage:	AC 120V/60Hz	Humidity:	60%RH
Tested By:	Duncan Wang	Test Date:	Nov. 29, 2022



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1530	46.40	12.06	58.46	63.52	-5.06	PK
2	2.2096	33.38	12.75	46.13	63.52	-17.39	PK
3	8.7727	28.49	13.27	41.76	63.52	-21.76	PK
4	15.0740	27.22	12.99	40.21	63.52	-23.31	PK
5	21.4141	27.75	12.17	39.92	63.52	-23.60	PK
6	26.0568	27.29	11.35	38.64	63.52	-24.88	PK

Remark:

Result = Reading +Correct.

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Margin = Result - Limit.

### 6.3. Radiated Disturbance Measurement (30 ~ 1000MHz)

#### 6.3.1. Limits of radiated disturbance measurement

Equipment	Operating frequency	RF power (watts)	Field strength limit (uV/m)	Distance (meters)
Any types unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25* SQRT(power/500)	300 (*)
	Any non-ISM frequency	Below 500 500 or more	15 15* SQRT(power/500)	300 (*)
Industrial heaters and RF stabilized arc welders	On or below 5,725MHz	Any	10	1600 (**)
	Above 5,725MHz	Any	10	
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	
Ultrasonic	Below 490kHz	Below 500 500 or more	2400/F(kHz) 2400/F(kHz)* SQRT(power/500)	300 (***)
	490 to 1600kHz	Any	24000/F(kHz)	30
	Above 1600kHz	Any	15	
Induction cooking ranges	Below 90kHz	Any	1500	30 (****)
	On or above 90kHz	Any	300	

**NOTE:**

(\*) Field strength may not exceed 10  $\mu$ V/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

(\*\*) Reduced to the greatest extent possible.

(\*\*\*) Field strength may not exceed 10  $\mu$ V/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

(\*\*\*\*) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

	Frequency(MHz)	Field strength limit at 30meters (uV/m)
RF lighting devices	30-88	30
	88-216	50
	216-1000 (Non-consumer)	70
	30-88	10
	88-216	15
	216-1000 (Consumer)	20

Emission level (dB $\mu$ V/m)=20\*log Emission level (uV/m).

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.

The tighter limit applies at the band edges.

For measurement distance not defined in above table. In this case the limit L2,

corresponding to the selected distance d2, shall be calculated by applying the following formula:

$$L2=L1+20*\log(d1/d2)$$

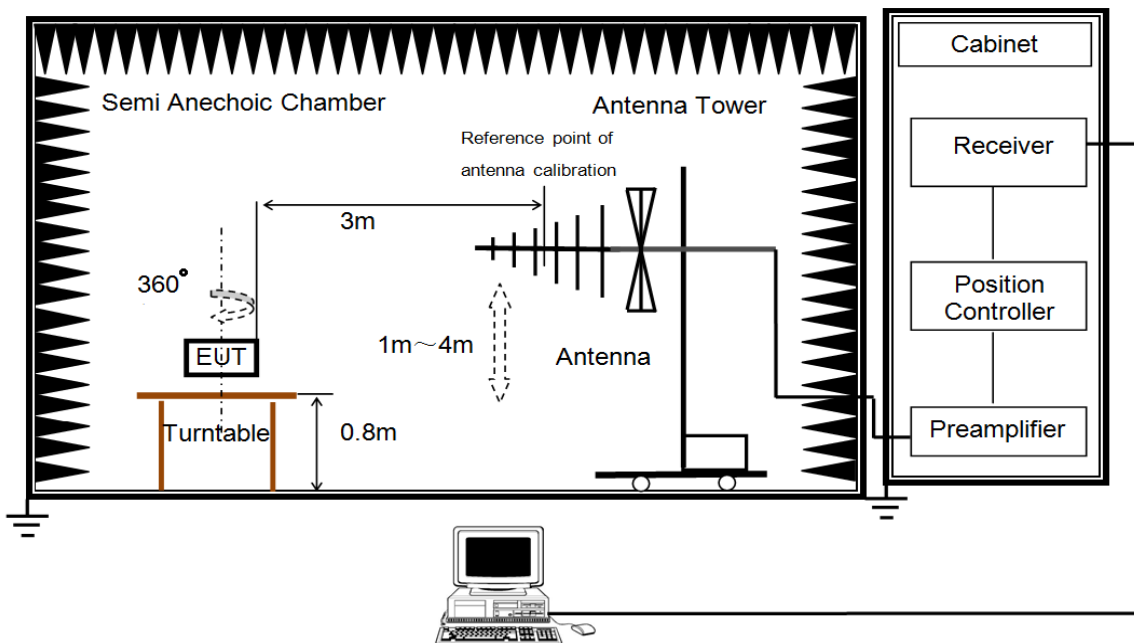
Where L1 is specified limit in dB(uV) at distance d1; and L2 is new limit for distance d2.

### 6.3.2. Test Procedure

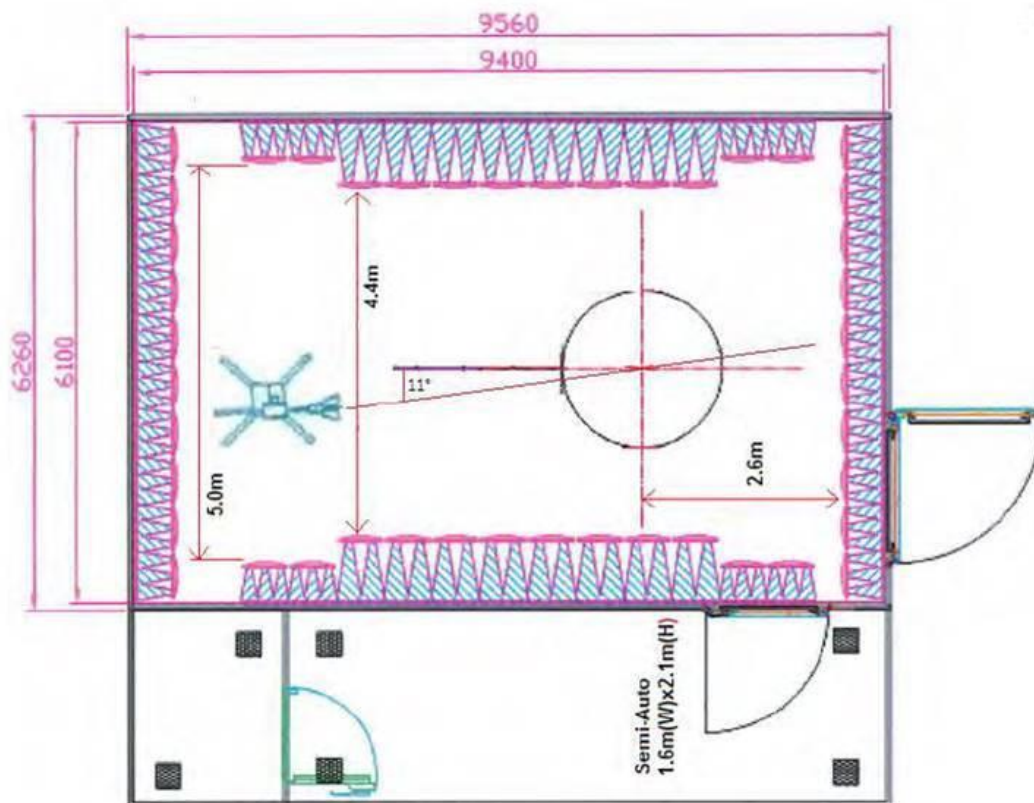
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then AVG detector mode re-measured.
- d. If the Peak Mode measured value compliance with and lower than Limit, the EUT shall be deemed to meet Limits and then no additional AVG Mode measurement performed.
- e. For the actual test configuration, please refer to the related Item: EUT Test Photos.



### 6.3.3. Test Setup (30MHz to 1000MHz)



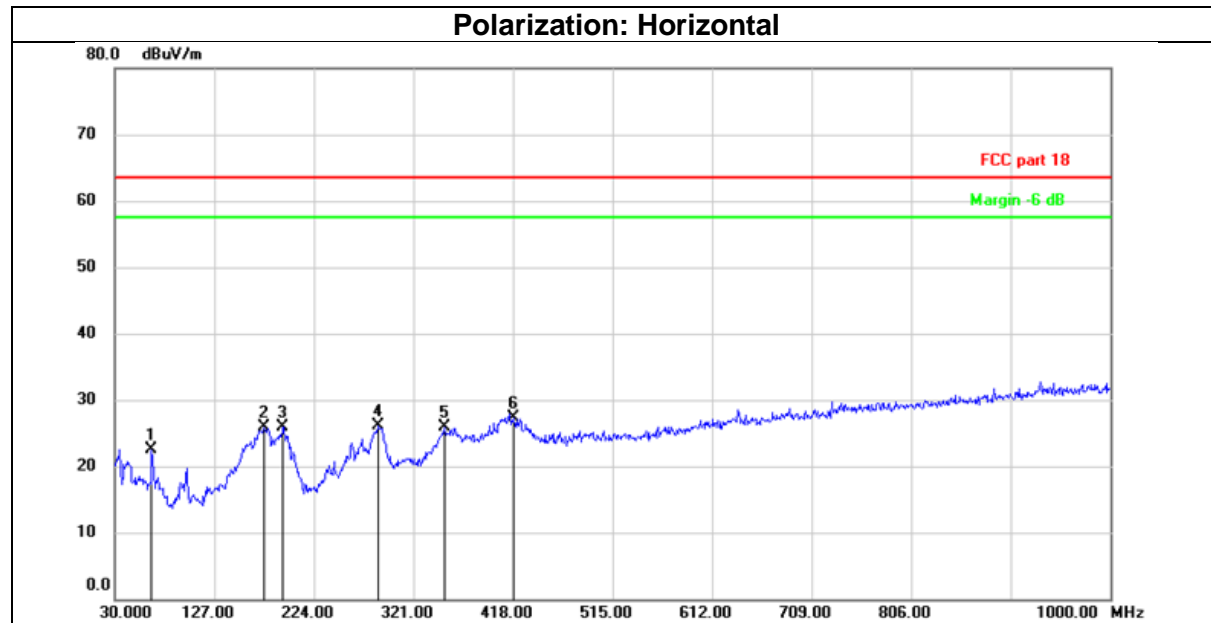
For the actual test configuration, please refer to Appendix I: Photographs of the Test Configuration.



### 6.3.4. Test Result

Mode 1 ; 30M-1GHz

Test Mode:	Mode 1	Temperature:	21 °C
Test Voltage:	AC 120V/60Hz	Humidity:	64%RH
Tested By:	Duncan Wang	Test Date:	Nov. 30, 2022



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	66.6660	36.49	-14.06	22.43	63.52	-41.09	PK
2	176.1143	39.12	-13.14	25.98	63.52	-37.54	PK
3	194.4149	40.70	-14.85	25.85	63.52	-37.67	PK
4	286.9530	37.58	-11.45	26.13	63.52	-37.39	PK
5	351.5227	35.67	-9.86	25.81	63.52	-37.71	PK
6	419.6813	34.84	-7.55	27.29	63.52	-36.23	PK

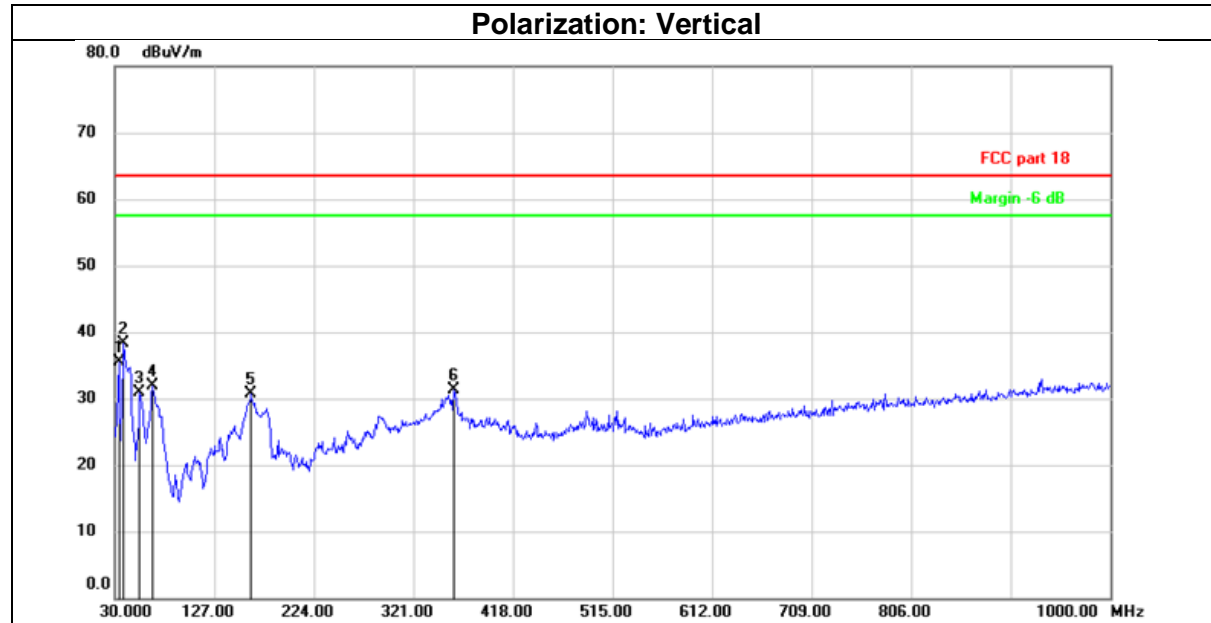
Remark:

Result = Reading +Correct.

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Margin = Result - Limit.

Test Mode:	Mode 1	Temperature:	21 °C
Test Voltage:	AC 120V/60Hz	Humidity:	64%RH
Tested By:	Duncan Wang	Test Date:	Nov. 30, 2022



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.2033	49.23	-13.64	35.59	63.52	-27.93	PK
2	39.2473	51.36	-13.08	38.28	63.52	-25.24	PK
3	55.0583	43.17	-12.36	30.81	63.52	-32.71	PK
4	67.4097	45.90	-14.04	31.86	63.52	-31.66	PK
5	163.0840	42.74	-12.11	30.63	63.52	-32.89	PK
6	360.9640	40.89	-9.59	31.30	63.52	-32.22	PK

Remark:

Result = Reading +Correct.

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Margin = Result - Limit.

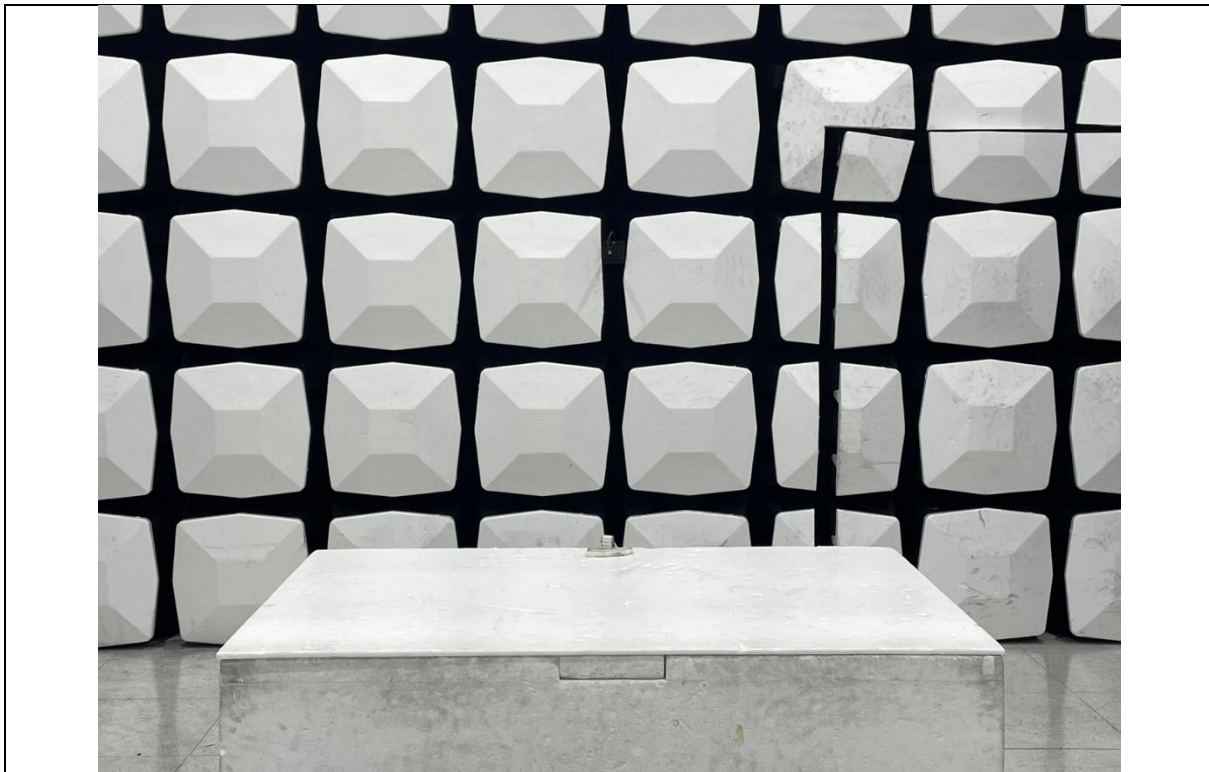
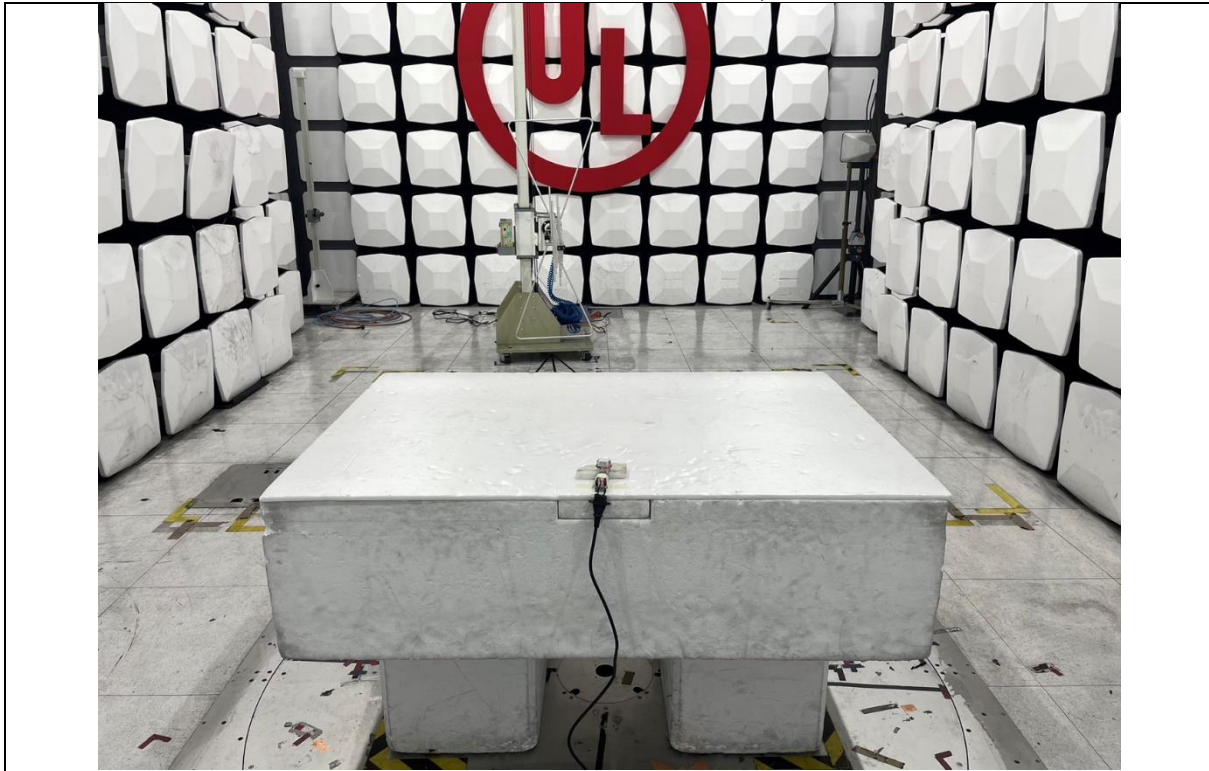
## Appendix I: Photographs of Test Configuration

Conducted Disturbance: Mode 1, LISN





**Radiated Disturbance: Mode 1, 30M-1GHz**



## **Appendix II: Photographs of the EUT**

Please see the photographs of EUT in the test report no.: 4790423395-EP.

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**END OF REPORT**