

# FCC SDoC TEST REPORT

For

Dongguan Jingheng Electron Co., Ltd.

LINE ARRAY SPEAKER SYSTEMS

Prepared for : Dongguan Jingheng Electron Co., Ltd.

Address : Room 101, Building 1, No.15, Shenle 1st Road, Hengli  
Town, Dongguan City, 523465 Guangdong, P.R. China

Prepared by : EST Technology Co., Ltd.

Address : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,  
Guangdong, China

Tel: 86-769-83081888

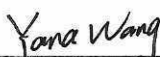


Fax: 86-769-83081878

Report No. : ESTE-F2507046

Date of Report : Jul. 21, 2025

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<b>Applicant:</b>	Dongguan Jingheng Electron Co., Ltd.		
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<b>Manufacturer:</b>	Dongguan Jingheng Electron Co., Ltd.		
<b>Address:</b>	Room 101, Building 1, No.15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P.R. China		
<b>Factory:</b>	Dongguan Jingheng Electron Co., Ltd.		
<b>Address:</b>	No.15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P.R. China		
<b>E.U.T:</b>	LINE ARRAY SPEAKER SYSTEMS		
<b>Model Number:</b>	L-ARRAY 28HA, L-ARRAY 18SA, FLX 28HA, FLX 18SA		
<b>Trade Name:</b>	TOPP PRO, SHOW	<b>Serial No:</b>	-----
<b>Date of Receipt:</b>	Jun. 13, 2025	<b>Date of Test:</b>	Jul. 12, 2025
<b>Test Specification:</b>	FCC Part 15 Subpart B Class B:2023 ANSI C63.4-2014		
<b>Test Result:</b>	The equipment under test was found to be compliance with the requirements of the standards applied.		
		<b>Issue Date:</b> Jul. 21, 2025	
<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Approved by:</b>	
			
Yana Wang / Assistant	Bible Hu / Engineer	Iceman Hu / Manager	
<b>Other Aspects:</b>	None.		
Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. The statement of compliance in this report is based on the limit in the test standard, the measurement uncertainty is not considered.			

## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Function

Refer to Technical Construction Form and User Manual.

### 1.2. Description of Device (EUT)

Description	: LINE ARRAY SPEAKER SYSTEMS
Model No.	: L-ARRAY 28HA, L-ARRAY 18SA
System Input Voltage	: 110-240V~ 50/60Hz
Work Freq.	: 120MHz
Power	: 11A MAX

### 1.3. Difference between Model Numbers

Note: 1. L-ARRAY 18SA: 500W+500W-DIP, subwoofer.

L-ARRAY 28HA: 500W+500W-DIP, mid-high speaker.

2. L-ARRAY 18SA and L-ARRAY 28HA have different appearances and sizes.

3. L-ARRAY 28HA, L-ARRAY 18SA and FLX 28HA, FLX 18SA are different in trademark and model, but the same in other aspects.

### 1.4. Independent Operation Modes

The basic operation modes are:

#### 1.4.1. AUDIO INPUT



## 2. TEST STANDARDS AND SITES

### 2.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC Part 15:2023	Class B	PASS
		Minimum passing margin is 2.95dB at 10.02MHz	
Radiated Emission Test (30MHz-1000MHz)	FCC Part 15:2023	Class B	PASS
		Minimum passing margin is 8.71dB at 30.00MHz	
Radiated Emission Test (above 1GHz)	FCC Part 15:2023	Class B	PASS
		Minimum passing margin is 15.42dB at 4445MHz	

## 2.2. Test Facilities

EMC Lab : Accredited by CNAS, CHINA  
Registration No.: L5288  
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA  
Designation Number: CN1215  
This Recognition is valid until: January 31, 2026

Accredited by A2LA, USA  
Registration No.: 4366.01  
This Accreditation is valid until: January 31, 2026

Recognized by Industry Canada  
CAB identifier No.: CN0035  
This Recognition is valid until: January 31, 2026

Recognized by VCCI, Japan  
Registration No.: C-14103; T-20073; R-13663;  
R-20103; G-20097  
Date of registration: Apr. 20, 2020  
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany  
Registration No.: UA 50413872 0001  
Date of registration: July 31, 2018

Recognized by Intertek  
Registration No.: 2011-RTL-L2-64  
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,  
Guangdong, China

## 2.3.List of Test and Measurement Instruments

### 2.3.1.For conducted emission at the mains terminals test (1# conduction)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI3	EST-E035	Jun. 11, 2025	Jun. 10, 2026
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	Jun. 11, 2025	Jun. 10, 2026
V-LISN	SCHWARZBECK	NNLK 8121	EST-E159	Jun. 11, 2025	Jun. 10, 2026
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E003	Jun. 11, 2025	Jun. 10, 2026
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

### 2.3.2.For radiated emission test (1# 966 radiation)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	Jun. 11, 2025	Jun. 10, 2026
Bilog Antenna	Teseq	CBL 6111D	EST-E034	Jun. 11, 2025	Jun. 10, 2026
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

### 2.3.3.For radiated emission test (above 1GHz ) (1# 966 radiation)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	Jun. 11, 2025	Jun. 10, 2026
Horn Antenna	SCHWARZBECK	BBHA 9120 D	EST-E031	Jun. 11, 2025	Jun. 10, 2026
Low Noise Amplifier	RF	TRLA-010180G45N	EST-E142	Jun. 11, 2025	Jun. 10, 2026
Horn Antenna (18-40GHz)	Com-Power	AHA-840	EST-E132	Jun. 11, 2025	Jun. 10, 2026
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	Jun. 11, 2025	Jun. 10, 2026
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

Note: All calibration reports of the equipment were provided by LiSai calibration and Testing

### 3. TEST SET-UP AND OPERATION MODES

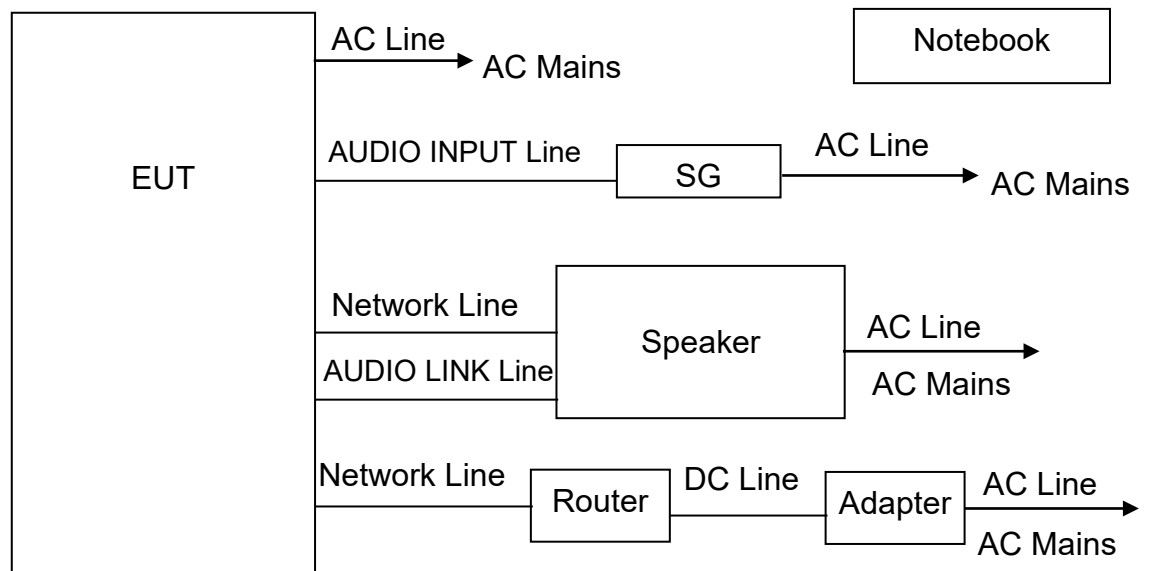
#### 3.1. Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

#### 3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Auxiliary equipment

EMI



(EUT: LINE ARRAY SPEAKER SYSTEMS)

#### 3.3. Test Operation Mode and Test Software

Refer to Test Setup in clause 4 & 5.

#### 3.4. Special Accessories and Auxiliary Equipment

##### 3.4.1. Notebook

M / N	:	Thinkpad X280
S / N	:	SL10P97711
Manufacturer	:	Lenovo

### 3.4.2.Signal Generator

M / N : TAG-101  
S / N : EST017-001T  
Manufacturer : Tronson

### 3.4.3.Router

M / N : CL-4  
Manufacturer : TOPP PRO

## 3.5.Countermeasures to Achieve EMC Compliance

None.

## 4. EMISSION TEST RESULTS

### 4.1. Conducted Emission at The Mains Terminals Test

**RESULT** : **Pass**  
 Test procedure : ANSI C63.4-2014  
 Frequency range : 0.15 to 30 MHz  
 Test Site : 1#CE Shielded Room  
 Limits : FCC Part 15:2023 Class B

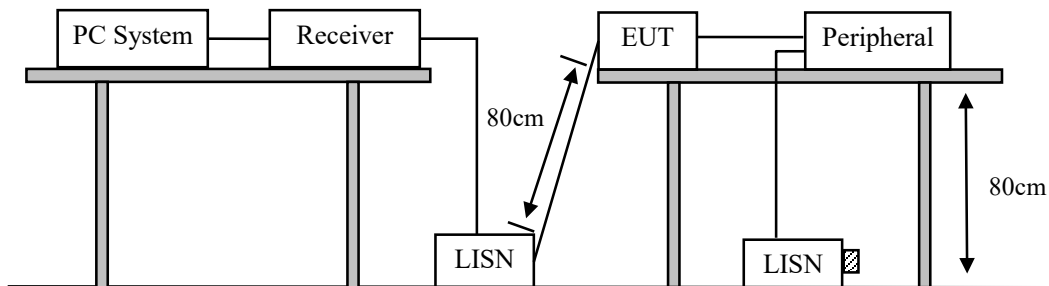
#### Test Setup

Date of test : Jul. 12, 2025  
 Model No. : L-ARRAY 28HA, L-ARRAY 18SA  
 Input Voltage : AC 120V/60Hz, AC 240V/50Hz  
 Operation Mode : AUDIO INPUT

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

The test data of the worst case condition(s) was reported on the following page.



**Note: Test uncertainty:  $\pm 3.44$ dB at a level of confidence of 95%.(1#CE)**



## Test Data

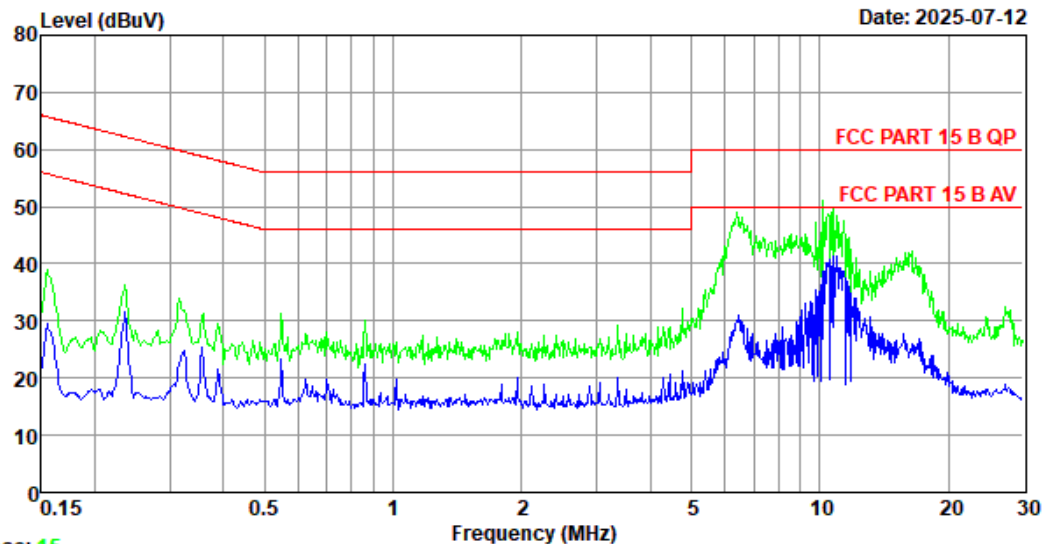
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Data: 52

File: \\EMC-CE1\Test Data\2025\JJing heng.EM6 (74)

Date: 2025-07-12



Trace: 15

Site no : 1#CE Shield Room Data no. : 52  
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15 B QP  
Engineer : Micheal Huang  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

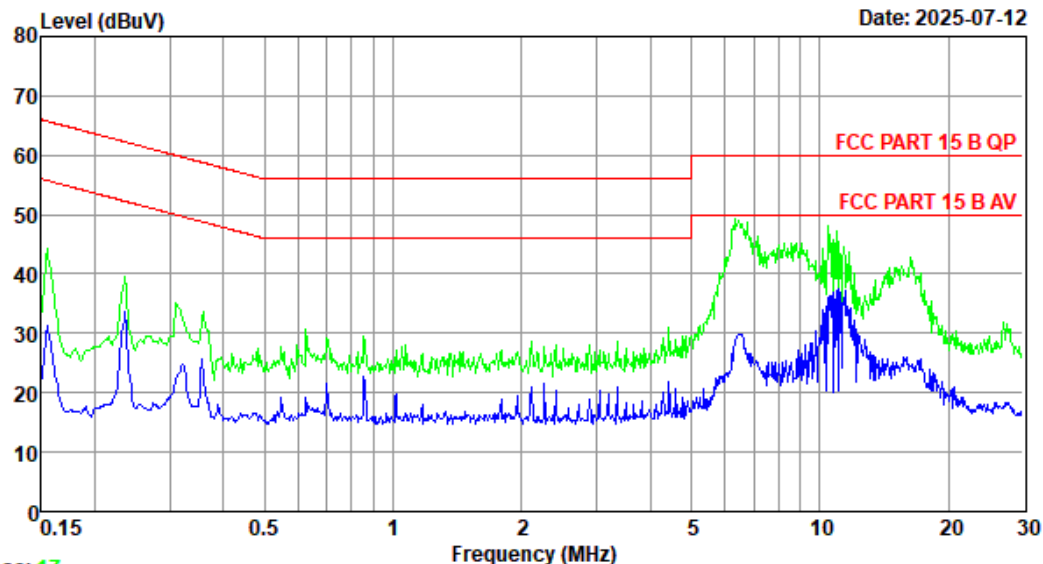
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Data: 54

File: \\EMC-CE1\Test Data\2025\JJing heng.EM6 (74)

Date: 2025-07-12



Trace: 17

Site no : 1#CE Shield Room Data no. : 54  
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : LINE  
Limit : FCC PART 15 B QP  
Engineer : Micheal Huang  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

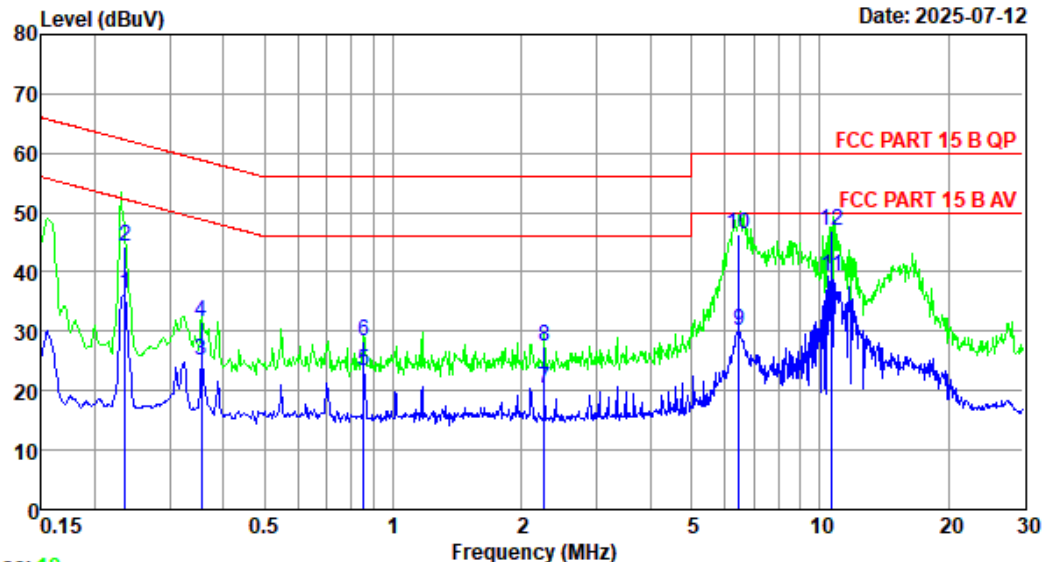
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Data: 56

File: \\EMC-CE1\Test Data\2025\JJing heng.EM6 (74)

Date: 2025-07-12



Site no : 1#CE Shield Room Data no. : 56  
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : LINE  
Limit : FCC PART 15 B QP  
Engineer : Micheal Huang  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.24	10.11	9.87	16.32	36.30	52.26	15.96	Average
2	0.24	10.11	9.87	24.24	44.22	62.26	18.04	QP
3	0.36	10.14	9.87	4.97	24.98	48.83	23.85	Average
4	0.36	10.14	9.87	11.52	31.53	58.83	27.30	QP
5	0.85	10.15	9.88	3.34	23.37	46.00	22.63	Average
6	0.85	10.15	9.88	8.21	28.24	56.00	27.76	QP
7	2.26	10.15	9.89	0.26	20.30	46.00	25.70	Average
8	2.26	10.15	9.89	7.37	27.41	56.00	28.59	QP
9	6.45	10.14	9.92	10.04	30.10	50.00	19.90	Average
10	6.45	10.14	9.92	26.26	46.32	60.00	13.68	QP
11	10.68	10.14	9.95	19.25	39.34	50.00	10.66	Average
12	10.68	10.14	9.95	26.86	46.95	60.00	13.05	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

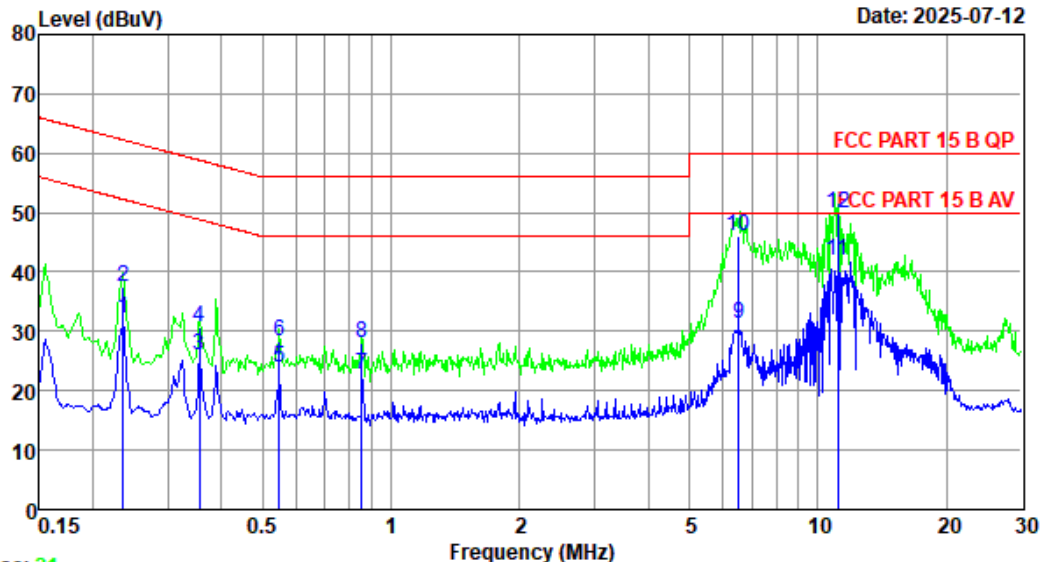
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Data: 58

File: \\EMC-CE1\Test Data\2025\JJing heng.EM6 (74)

Date: 2025-07-12



Trace: 21

Site no : 1#CE Shield Room Data no. : 58  
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15 B QP  
Engineer : Micheal Huang  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.24	10.09	9.87	12.17	32.13	52.26	20.13	Average
2	0.24	10.09	9.87	17.55	37.51	62.26	24.75	QP
3	0.36	10.12	9.87	5.99	25.98	48.83	22.85	Average
4	0.36	10.12	9.87	10.62	30.61	58.83	28.22	QP
5	0.55	10.14	9.87	3.90	23.91	46.00	22.09	Average
6	0.55	10.14	9.87	8.23	28.24	56.00	27.76	QP
7	0.85	10.20	9.88	2.68	22.76	46.00	23.24	Average
8	0.85	10.20	9.88	7.95	28.03	56.00	27.97	QP
9	6.52	10.20	9.92	11.05	31.17	50.00	18.83	Average
10	6.52	10.20	9.92	25.83	45.95	60.00	14.05	QP
11	11.14	10.14	9.95	21.78	41.87	50.00	8.13	Average
12	11.14	10.14	9.95	29.73	49.82	60.00	10.18	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

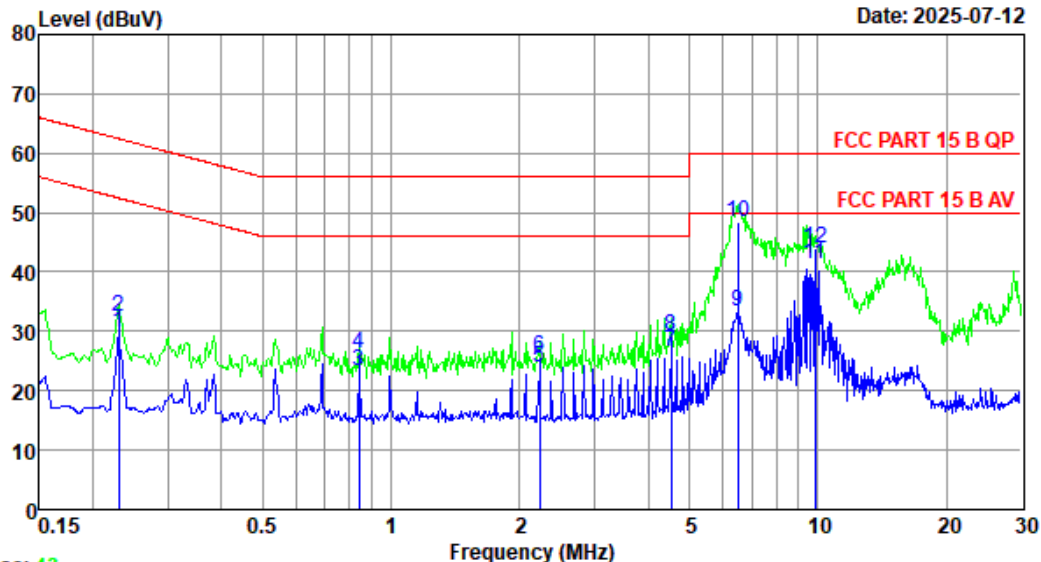
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Data: 60

File: \\EMC-CE1\Test Data\2025\JJing heng.EM6 (74)

Date: 2025-07-12



Trace: 43

Site no : 1#CE Shield Room Data no. : 60  
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : LINE  
Limit : FCC PART 15 B QP  
Engineer : Micheal Huang  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.23	10.11	9.87	9.89	29.87	52.44	22.57	Average
2	0.23	10.11	9.87	12.52	32.50	62.44	29.94	QP
3	0.84	10.15	9.88	3.24	23.27	46.00	22.73	Average
4	0.84	10.15	9.88	6.19	26.22	56.00	29.78	QP
5	2.22	10.15	9.89	3.96	24.00	46.00	22.00	Average
6	2.22	10.15	9.89	5.58	25.62	56.00	30.38	QP
7	4.53	10.15	9.91	6.48	26.54	46.00	19.46	Average
8	4.53	10.15	9.91	9.29	29.35	56.00	26.65	QP
9	6.49	10.14	9.92	13.30	33.36	50.00	16.64	Average
10	6.49	10.14	9.92	28.44	48.50	60.00	11.50	QP
11	9.86	10.14	9.94	21.25	41.33	50.00	8.67	Average
12	9.86	10.14	9.94	23.99	44.07	60.00	15.93	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

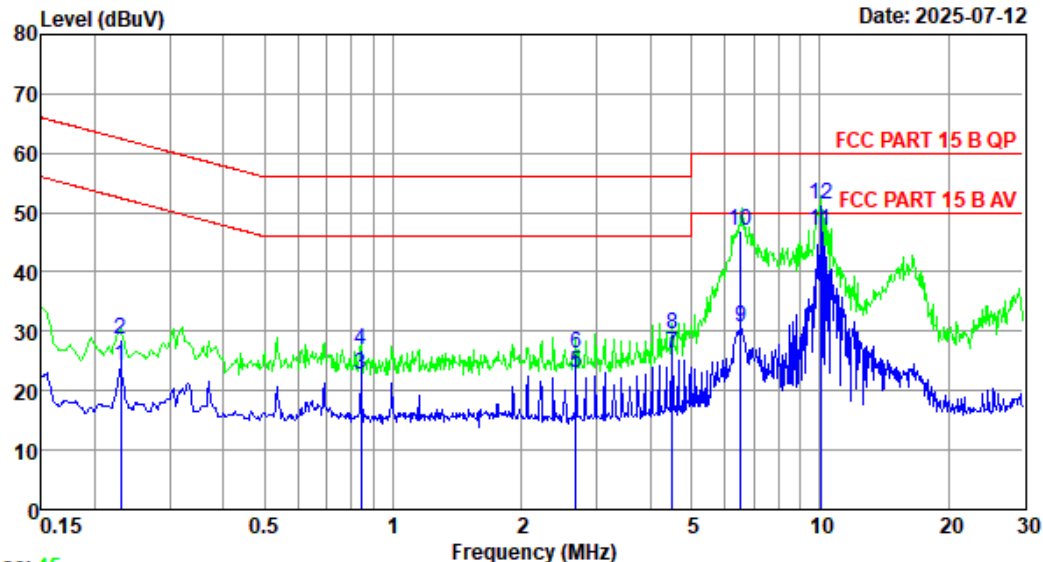
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Data: 62

File: \\EMC-CE1\Test Data\2025\JJing heng.EM6 (74)

Date: 2025-07-12



Trace: 45

Site no : 1#CE Shield Room Data no. : 62  
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15 B QP  
Engineer : Micheal Huang  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.23	10.11	9.87	4.32	24.30	52.44	28.14	Average
2	0.23	10.11	9.87	8.59	28.57	62.44	33.87	QP
3	0.84	10.20	9.88	2.61	22.69	46.00	23.31	Average
4	0.84	10.20	9.88	6.86	26.94	56.00	29.06	QP
5	2.68	10.05	9.89	2.94	22.88	46.00	23.12	Average
6	2.68	10.05	9.89	6.31	26.25	56.00	29.75	QP
7	4.50	10.17	9.91	6.11	26.19	46.00	19.81	Average
8	4.50	10.17	9.91	9.54	29.62	56.00	26.38	QP
9	6.52	10.20	9.92	10.65	30.77	50.00	19.23	Average
10	6.52	10.20	9.92	26.89	47.01	60.00	12.99	QP
11	10.02	10.17	9.94	26.94	47.05	50.00	2.95	Average
12	10.02	10.17	9.94	31.13	51.24	60.00	8.76	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.



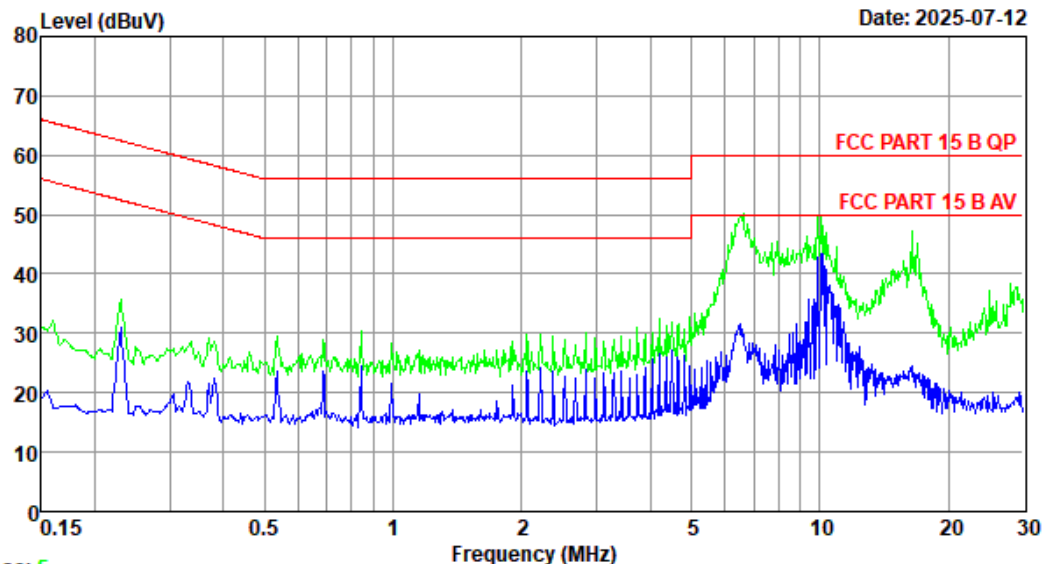
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Data: 64

File: \\EMC-CE1\Test Data\2025\JJing heng.EM6 (74)

Date: 2025-07-12



Trace: 5

Site no : 1#CE Shield Room Data no. : 64  
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : LINE  
Limit : FCC PART 15 B QP  
Engineer : Micheal Huang  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

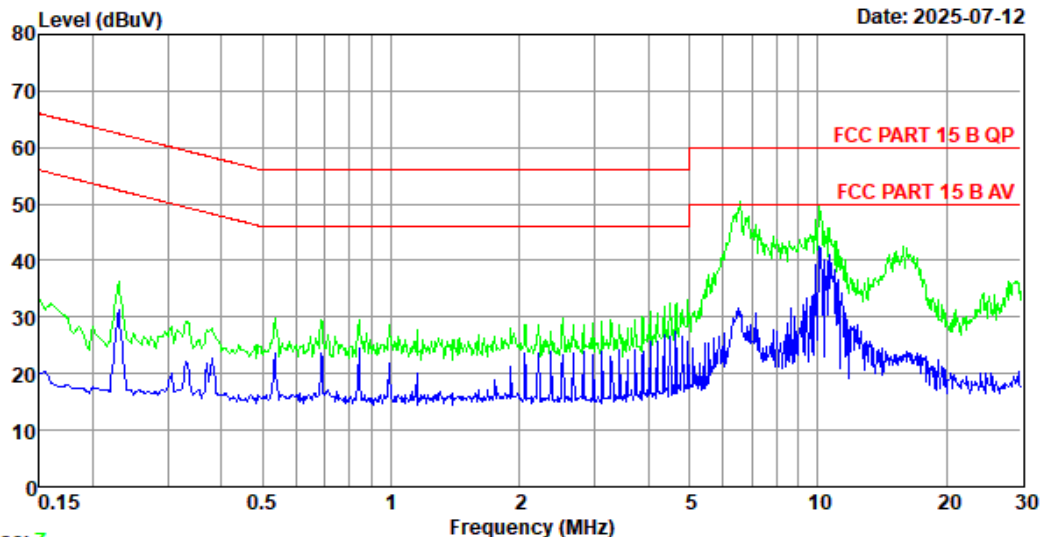
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Data: 66

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Date: 2025-07-12



Trace: 7

Site no : 1#CE Shield Room Data no. : 66  
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15 B QP  
Engineer : Micheal Huang  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

## 4.2. Radiated Emission Test

**RESULT** : **Pass**  
 Test procedure : ANSI C63.4-2014  
 Frequency range : 30 to 1000 MHz  
 Test Site : 1#966 Chamber  
 Limits : FCC Part 15:2023 Class B

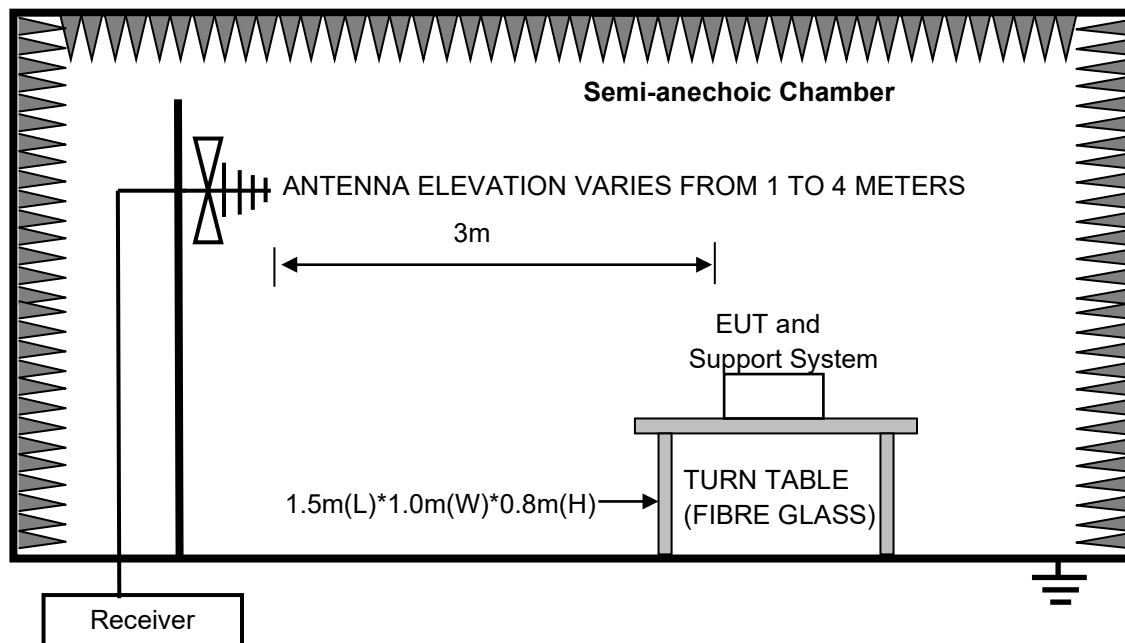
### Test Setup

Date of test : Jul. 12, 2025  
 Model No. : L-ARRAY 28HA, L-ARRAY 18SA  
 Input Voltage : AC 120V/60Hz, AC 240V/50Hz  
 Operation Mode : AUDIO INPUT

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m distance from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth setting on the test receiver was 120 kHz.



**Note: Test uncertainty:  $\pm 4.36$  dB (H);  $\pm 4.72$  dB (V) at a level of confidence of 95%.(1#966)**

## Test Data

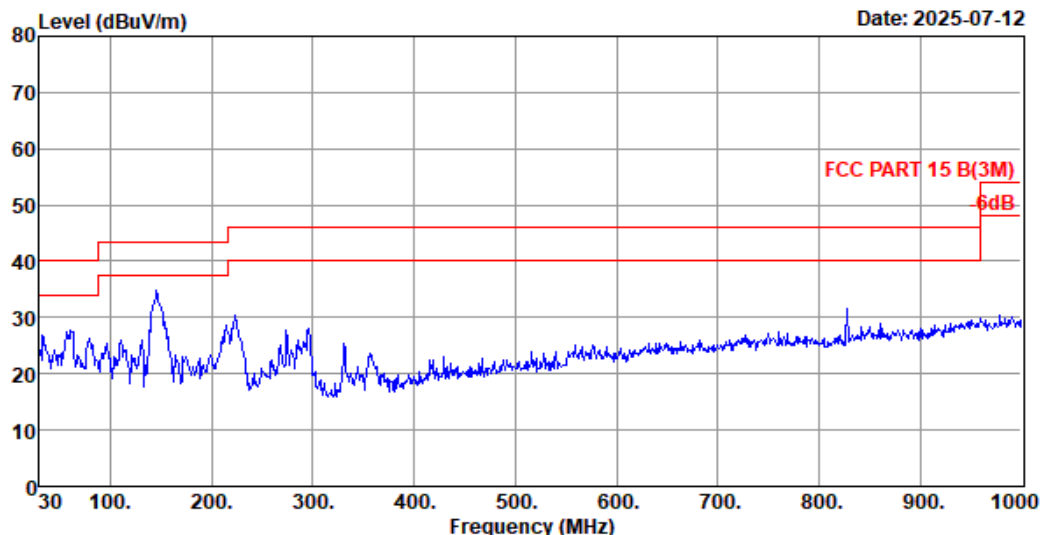
EST Technology

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Data: 393

File: \\EMC-966-1\test data\2025\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 393  
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:22.4°C.Humi:55%;Press:101.1KPa  
Engineer : Aiden Yan  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

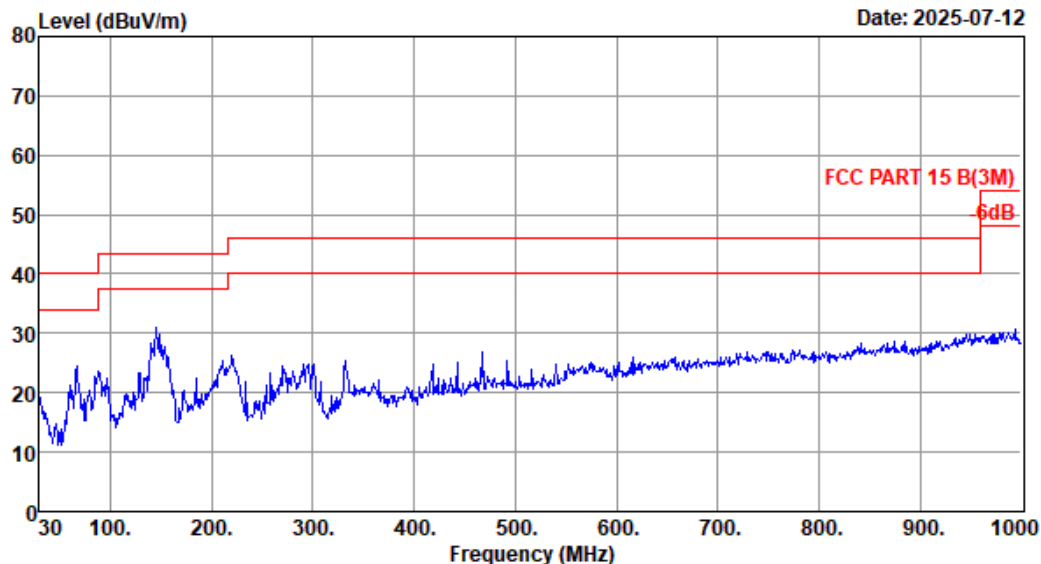
# EST Technology

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Data: 394

File: \\EMC-966-1\test data\2025\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 394  
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:22.4°C.Humi:55%;Press:101.1KPa  
Engineer : Aiden Yan  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

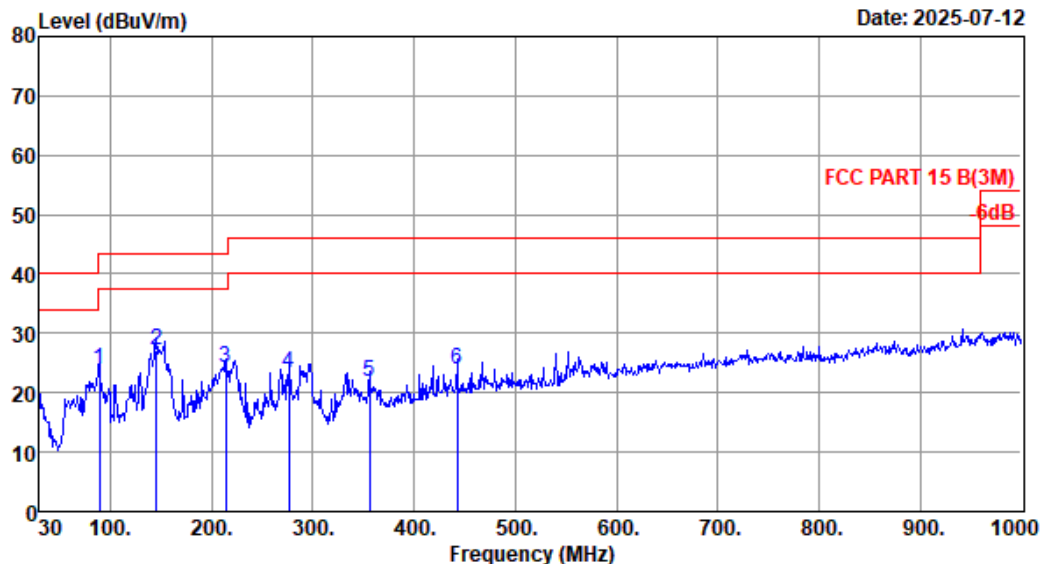
## EST Technology

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Data: 395

File: \\EMC-966-1\\test data\\2025\\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 395  
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:22.4°C.Humi:55%;Press:101.1KPa  
Engineer : Aiden Yan  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	89.17	8.50	1.32	14.21	24.03	43.50	19.47	QP
2	145.43	12.20	1.73	13.11	27.04	43.50	16.46	QP
3	214.30	9.06	2.14	13.12	24.32	43.50	19.18	QP
4	276.38	12.70	2.46	8.25	23.41	46.00	22.59	QP
5	355.92	14.72	2.85	4.26	21.83	46.00	24.17	QP
6	442.25	17.00	3.21	3.69	23.90	46.00	22.10	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.



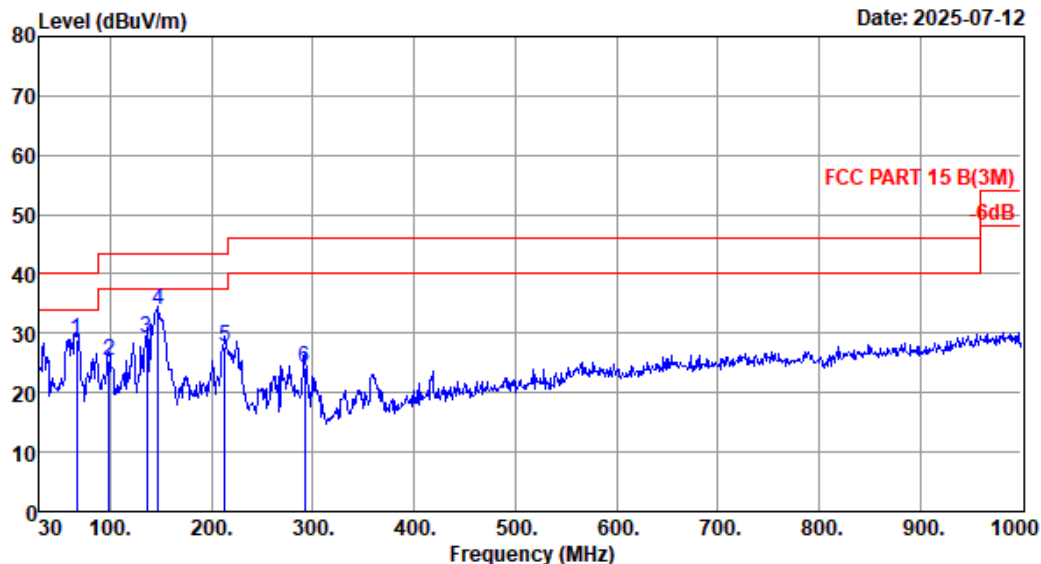
## EST Technology

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Data: 396

File: \\EMC-966-1\\test data\\2025\\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 396  
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:22.4°C.Humi:55%;Press:101.1KPa  
Engineer : Aiden Yan  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	66.86	6.30	1.13	21.53	28.96	40.00	11.04	QP
2	98.87	10.40	1.40	13.69	25.49	43.50	18.01	QP
3	135.73	12.40	1.66	15.11	29.17	43.50	14.33	QP
4	147.37	11.00	1.75	21.09	33.84	43.50	9.66	QP
5	213.33	9.12	2.13	16.42	27.67	43.50	15.83	QP
6	291.90	13.38	2.54	8.26	24.18	46.00	21.82	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

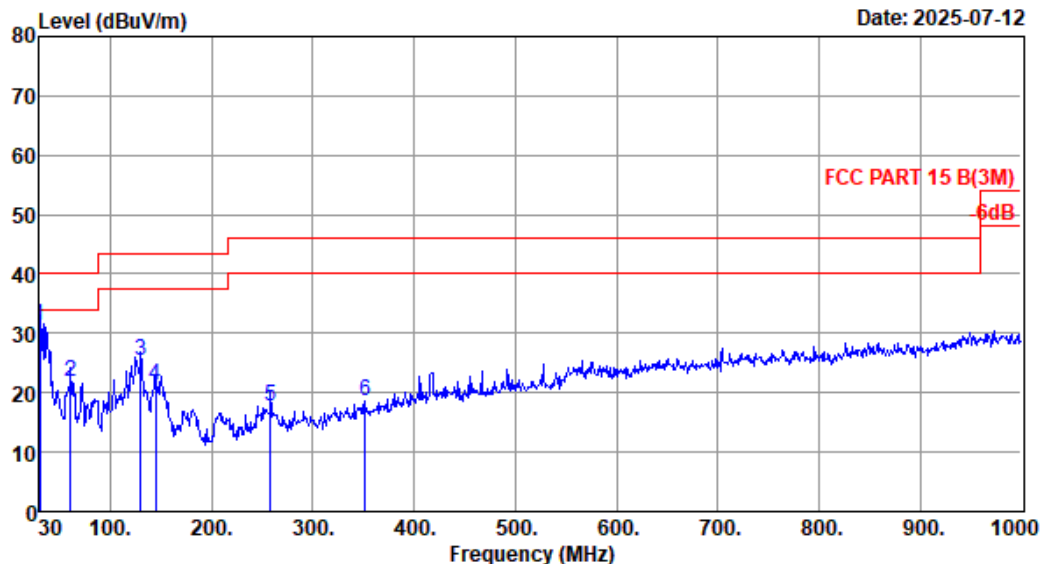
## EST Technology

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Data: 397

File: \\EMC-966-1\\test data\\2025\\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 397  
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:22.4°C.Humi:55%;Press:101.1KPa  
Engineer : Aiden Yan  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.30	0.73	11.26	31.29	40.00	8.71	QP
2	61.04	6.00	1.08	14.73	21.81	40.00	18.19	QP
3	129.91	12.80	1.62	11.06	25.48	43.50	18.02	QP
4	144.46	12.10	1.73	7.43	21.26	43.50	22.24	QP
5	257.95	14.12	2.37	1.19	17.68	46.00	28.32	QP
6	352.04	14.70	2.83	1.11	18.64	46.00	27.36	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

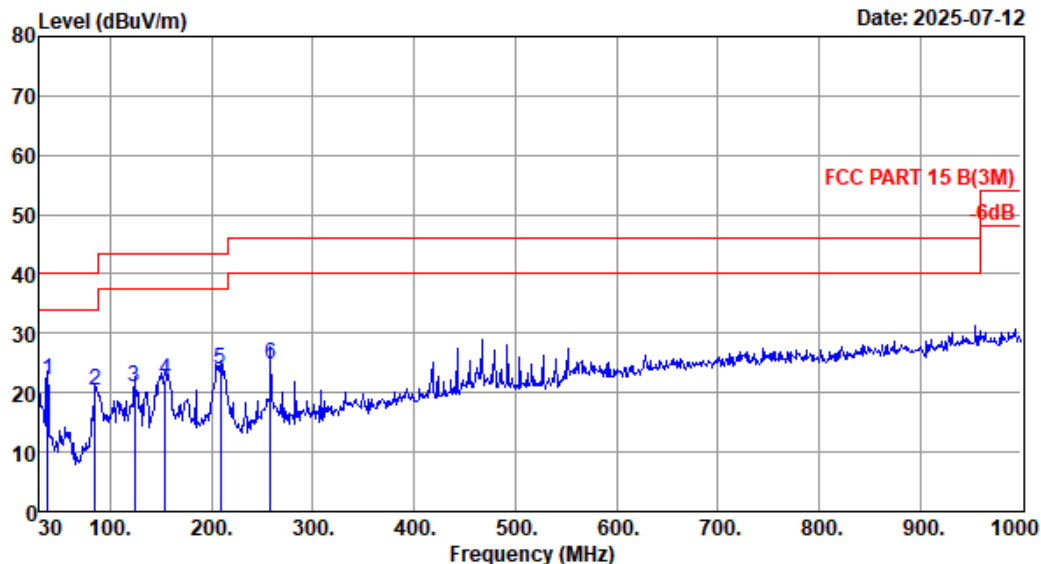
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Data: 398

File: \\EMC-966-1\\test data\\2025\\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 398  
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:22.4°C.Humi:55%;Press:101.1KPa  
Engineer : Aiden Yan  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.76	15.20	0.83	5.96	21.99	40.00	18.01	QP
2	85.29	8.00	1.29	11.02	20.31	40.00	19.69	QP
3	124.09	12.50	1.58	6.97	21.05	43.50	22.45	QP
4	154.16	11.10	1.78	9.19	22.07	43.50	21.43	QP
5	208.48	9.30	2.11	12.45	23.86	43.50	19.64	QP
6	257.95	14.12	2.37	8.42	24.91	46.00	21.09	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

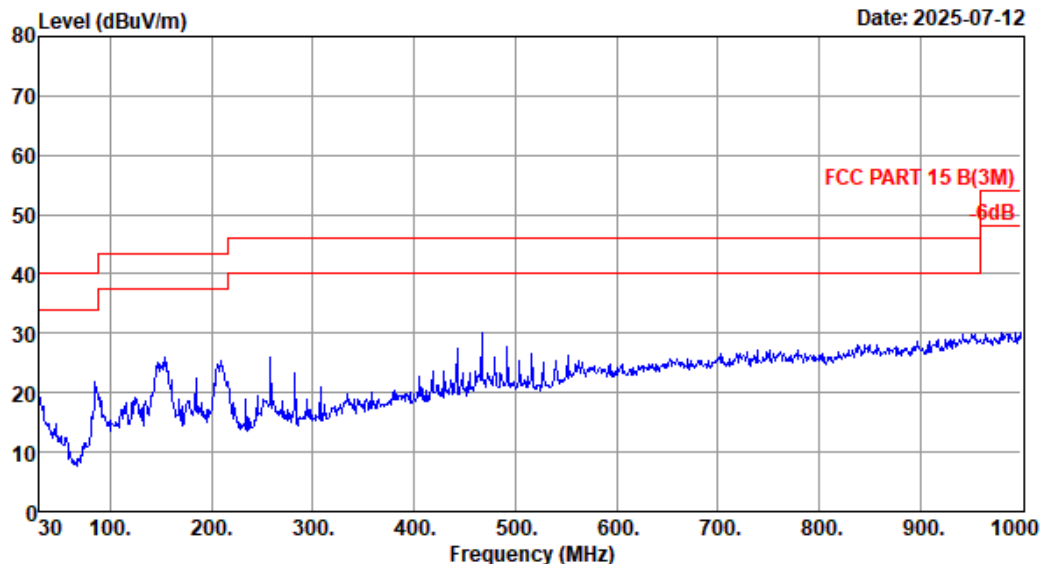
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Data: 399

File: \\EMC-966-1\test data\2025\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no.	: 1# 966 Chamber	Data no.	: 399
Dis. / Ant.	: 3m 37062	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 B(3M)		
Env. / Ins.	: Temp:22.4°C.Humi:55%;Press:101.1KPa		
Engineer	: Aiden Yan		
EUT	: LINE ARRAY SPEAKER SYSTEMS		
Power	: AC 240V/50Hz		
M/N	: L-ARRAY 28HA		
Test Mode	: AUDIO INPUT		

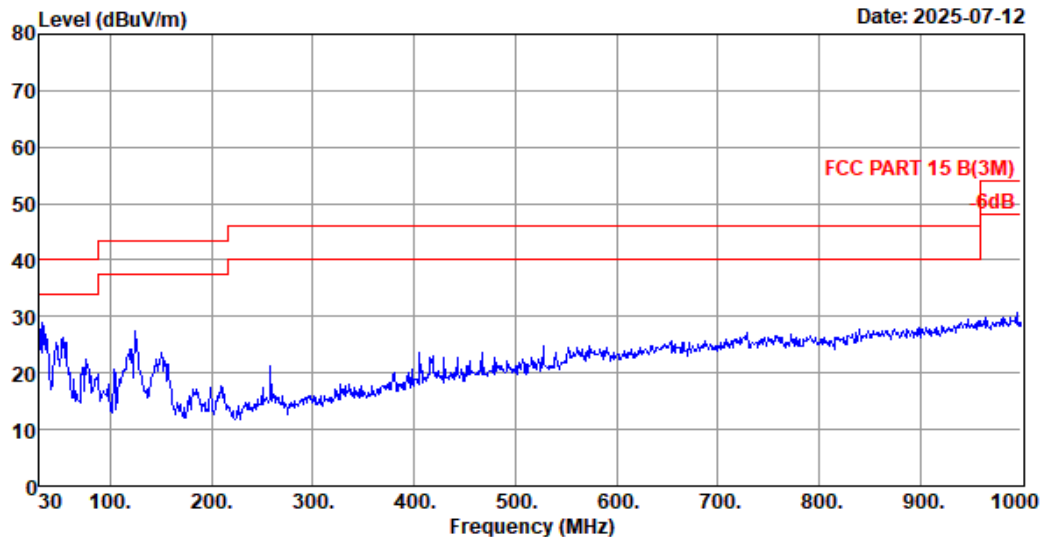
# EST Technology

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Data: 400

File: \\EMC-966-1\test data\2025\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 400  
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:22.4°C,Humi:55%;Press:101.1KPa  
Engineer : Aiden Yan  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

### 4.3. Radiated Emission Test (above 1GHz)

**RESULT** : **Pass**  
Test procedure : ANSI C63.4-2014  
Frequency range : 1GHz-6GHz  
Test Site : 1#966 Chamber  
Limits : FCC Part 15:2023 Class B

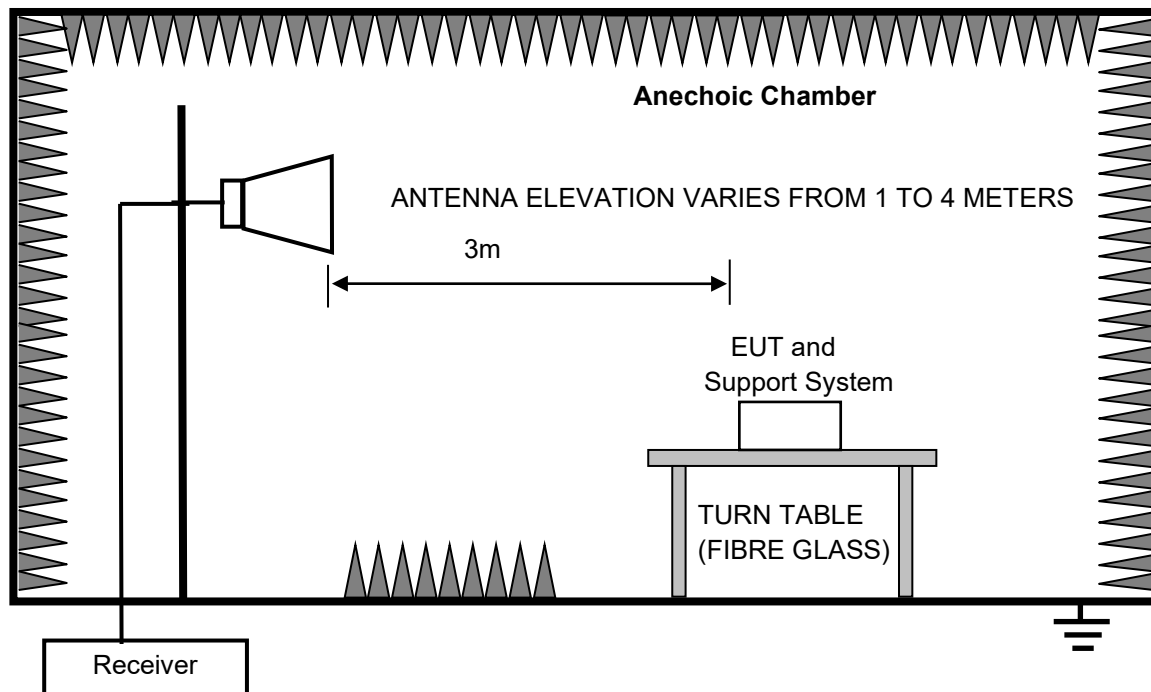
#### Test Setup

Date of test : Jul. 12, 2025  
Model No. : L-ARRAY 28HA, L-ARRAY 18SA  
Input Voltage : AC 120V/60Hz, AC 240V/50Hz  
Operation Mode : AUDIO INPUT

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector and Average detector from the spectrum, and all the final readings from the test receiver were measured with the Peak detector and Average detector.

The bandwidth setting on the test receiver was 1MHz(above 1GHz).



**Note: Test uncertainty:  $\pm 4.78\text{dB}$  at a level of confidence of 95%.(1-6GHz) (1#966)**



## Test Data

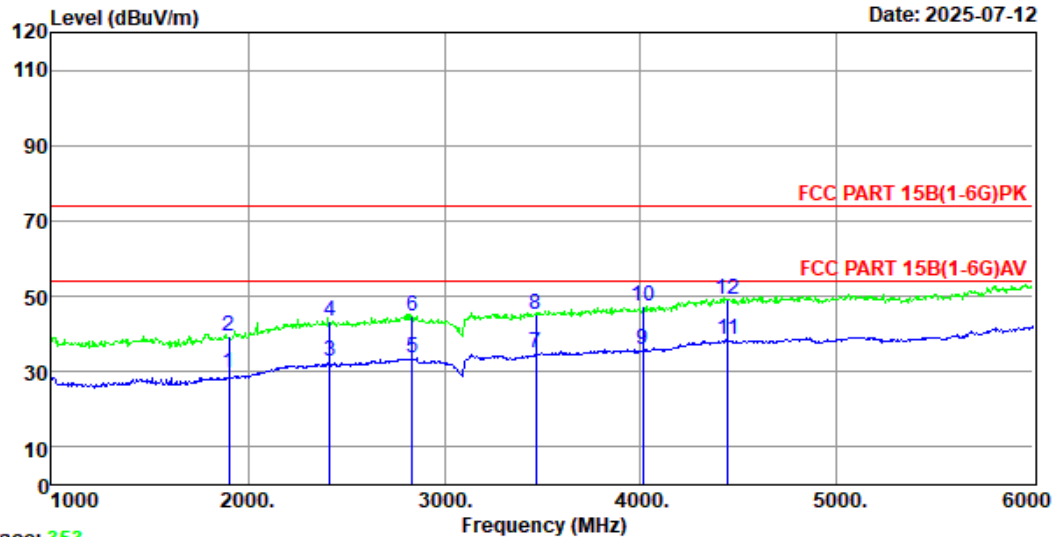
EST Technology

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Data: 378

File: \\EMC-966-1\\test data\\2025\\J\\Jing Heng.EM6 (412)

Date: 2025-07-12



Trace: 353

Site no. : 1# 966 Chamber Data no. : 378  
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL  
Limit : FCC PART 15B(1-6G)PK  
Env. / Ins. : Temp:22.4°C.Humi:53%;Press:101.1KPa  
Engineer : Ted Deng  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1905.00	26.00	3.05	0.72	29.77	54.00	24.23	Average
2	1905.00	26.00	3.05	10.26	39.31	74.00	34.69	Peak
3	2415.00	28.10	3.71	0.88	32.69	54.00	21.31	Average
4	2415.00	28.10	3.71	11.47	43.28	74.00	30.72	Peak
5	2835.00	28.57	4.32	0.93	33.82	54.00	20.18	Average
6	2835.00	28.57	4.32	11.95	44.84	74.00	29.16	Peak
7	3465.00	29.17	4.59	1.29	35.05	54.00	18.95	Average
8	3465.00	29.17	4.59	11.55	45.31	74.00	28.69	Peak
9	4010.00	30.37	4.63	0.88	35.88	54.00	18.12	Average
10	4010.00	30.37	4.63	12.39	47.39	74.00	26.61	Peak
11	4445.00	31.50	4.87	2.21	38.58	54.00	15.42	Average
12	4445.00	31.50	4.87	12.66	49.03	74.00	24.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

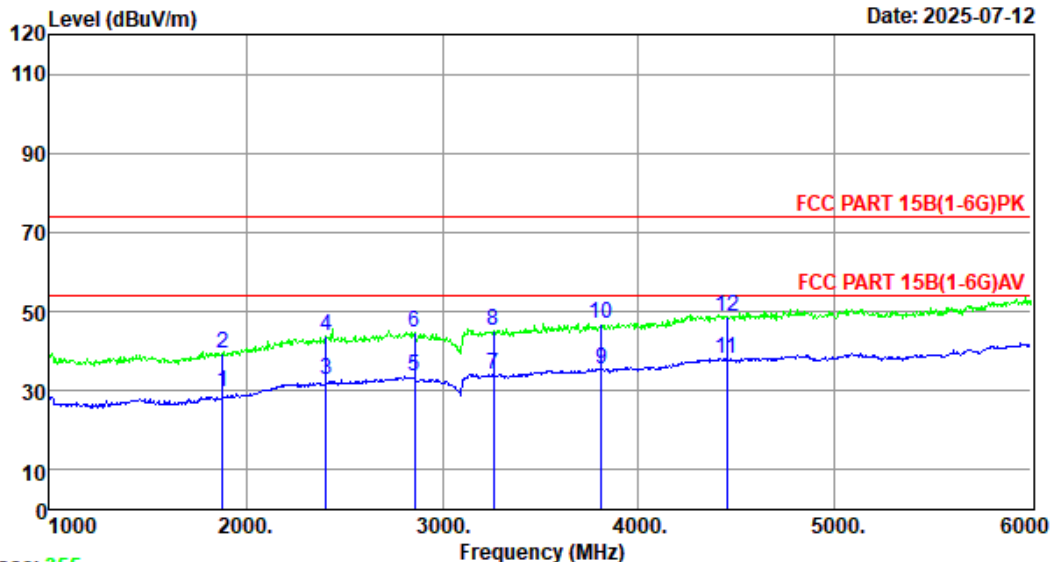
EST Technology

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Data: 380

File: \\EMC-966-1\\test data\\2025\\JJing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 380  
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL  
Limit : FCC PART 15B(1-6G)PK  
Env. / Ins. : Temp:22.4°C.Humi:53%;Press:101.1KPa  
Engineer : Ted Deng  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1880.00	25.90	3.03	0.89	29.82	54.00	24.18	Average
2	1880.00	25.90	3.03	10.33	39.26	74.00	34.74	Peak
3	2410.00	28.10	3.71	0.96	32.77	54.00	21.23	Average
4	2410.00	28.10	3.71	11.92	43.73	74.00	30.27	Peak
5	2860.00	28.60	4.34	0.53	33.47	54.00	20.53	Average
6	2860.00	28.60	4.34	11.75	44.69	74.00	29.31	Peak
7	3260.00	29.03	4.58	0.65	34.26	54.00	19.74	Average
8	3260.00	29.03	4.58	11.52	45.13	74.00	28.87	Peak
9	3810.00	30.10	4.61	0.73	35.44	54.00	18.56	Average
10	3810.00	30.10	4.61	12.25	46.96	74.00	27.04	Peak
11	4450.00	31.50	4.87	1.78	38.15	54.00	15.85	Average
12	4450.00	31.50	4.87	12.37	48.74	74.00	25.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.

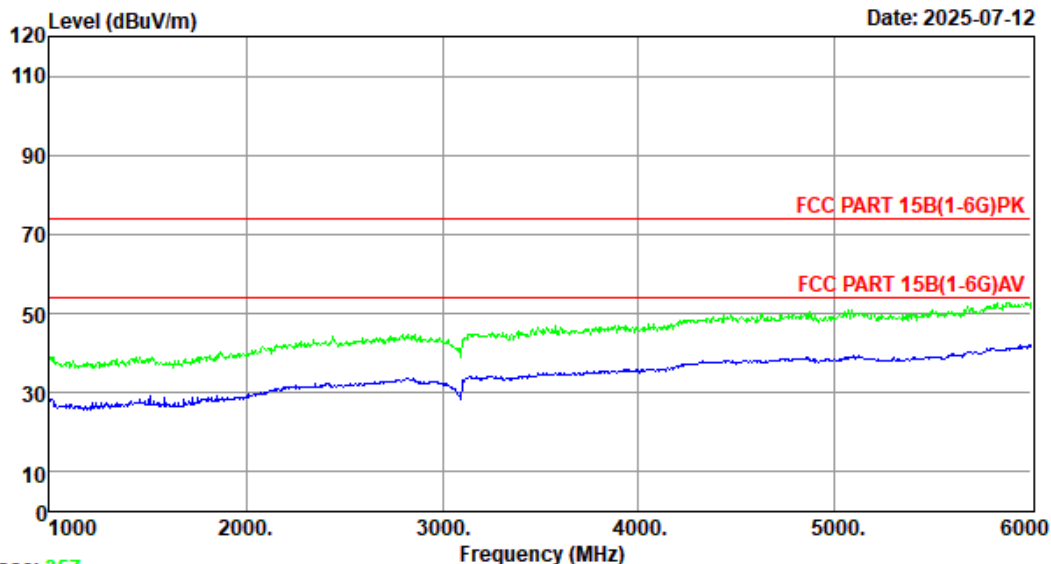
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Data: 382

File: \\EMC-966-1\\test data\\2025\\J\\Jing Heng.EM6 (412)

Date: 2025-07-12



Trace: 357

Site no. : 1# 966 Chamber Data no. : 382  
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL  
Limit : FCC PART 15B(1-6G)PK  
Env. / Ins. : Temp:22.4°C.Humi:53%;Press:101.1KPa  
Engineer : Ted Deng  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

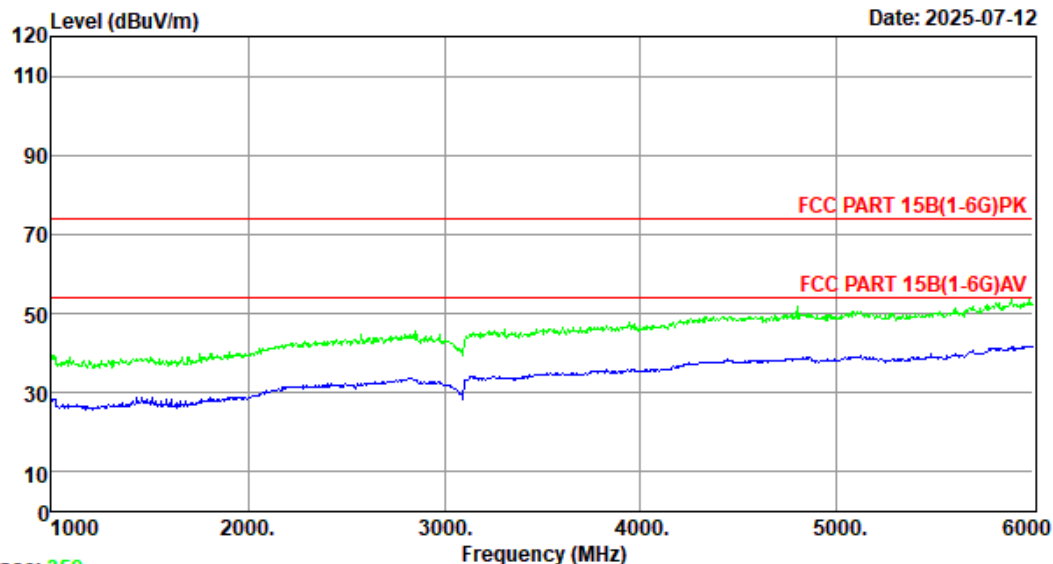
## EST Technology

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Data: 384

File: \\EMC-966-1\\test data\\2025\\J\\Jing Heng.EM6 (412)

Date: 2025-07-12



Trace: 359

Site no. : 1# 966 Chamber Data no. : 384  
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL  
Limit : FCC PART 15B(1-6G)PK  
Env. / Ins. : Temp:22.4°C.Humi:53%;Press:101.1KPa  
Engineer : Ted Deng  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 18SA  
Test Mode : AUDIO INPUT

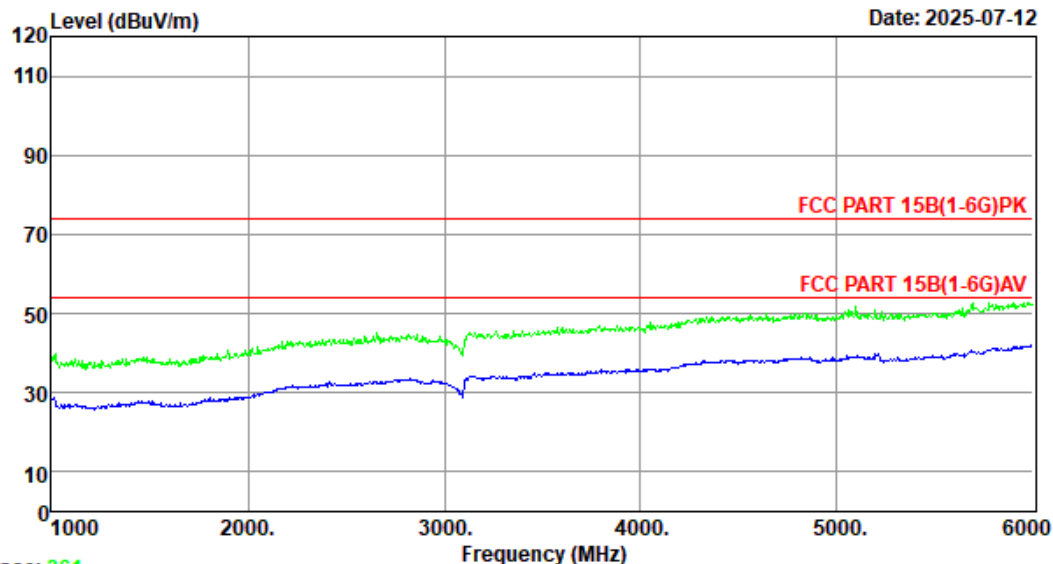
## EST Technology

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Data: 386

File: \\EMC-966-1\\test data\\2025\\J\\Jing Heng.EM6 (412)

Date: 2025-07-12



Trace: 361

Site no. : 1# 966 Chamber Data no. : 386  
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL  
Limit : FCC PART 15B(1-6G)PK  
Env. / Ins. : Temp:22.4°C.Humi:53%;Press:101.1KPa  
Engineer : Ted Deng  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

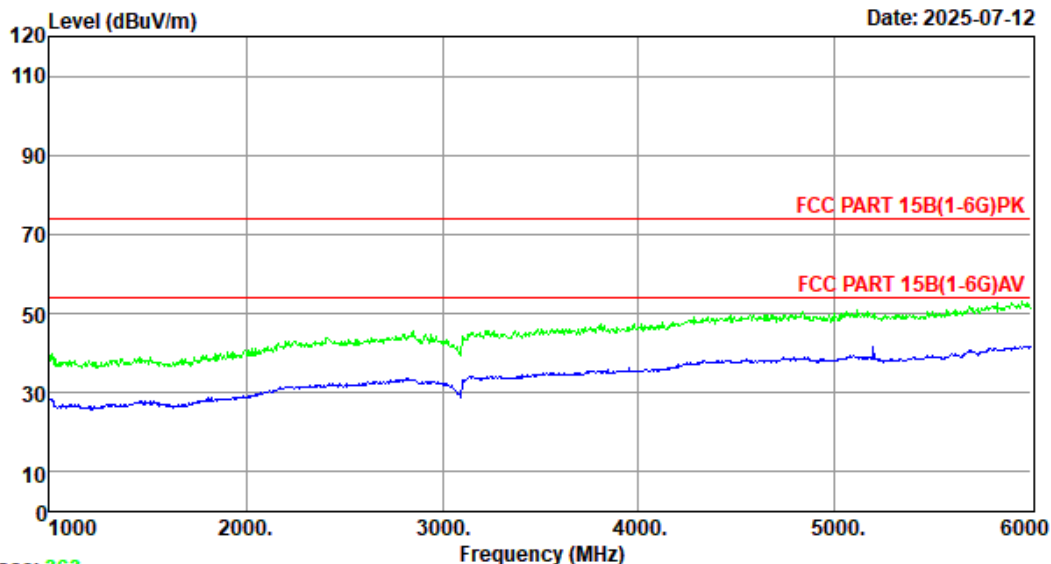
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Data: 388

File: \\EMC-966-1\\test data\\2025\\J\\Jing Heng.EM6 (412)

Date: 2025-07-12



Trace: 363

Site no. : 1# 966 Chamber Data no. : 388  
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL  
Limit : FCC PART 15B(1-6G)PK  
Env. / Ins. : Temp:22.4°C.Humi:53%;Press:101.1KPa  
Engineer : Ted Deng  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 240V/50Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

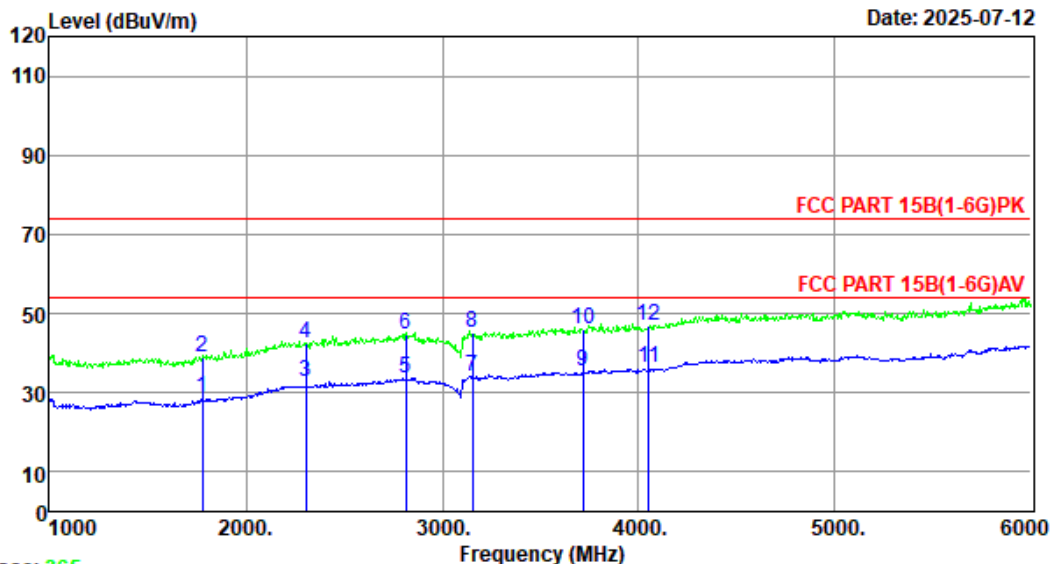
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Data: 390

File: \\EMC-966-1\\test data\\2025\\J\\Jing Heng.EM6 (412)

Date: 2025-07-12



Trace: 365

Site no. : 1# 966 Chamber Data no. : 390  
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL  
Limit : FCC PART 15B(1-6G)PK  
Env. / Ins. : Temp:22.4°C.Humi:53%;Press:101.1KPa  
Engineer : Ted Deng  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1780.00	25.60	2.95	0.07	28.62	54.00	25.38	Average
2	1780.00	25.60	2.95	10.26	38.81	74.00	35.19	Peak
3	2305.00	28.27	3.57	0.95	32.79	54.00	21.21	Average
4	2305.00	28.27	3.57	10.81	42.65	74.00	31.35	Peak
5	2815.00	28.53	4.29	0.79	33.61	54.00	20.39	Average
6	2815.00	28.53	4.29	11.70	44.52	74.00	29.48	Peak
7	3155.00	29.20	4.57	0.35	34.12	54.00	19.88	Average
8	3155.00	29.20	4.57	11.23	45.00	74.00	29.00	Peak
9	3715.00	29.97	4.60	0.67	35.24	54.00	18.76	Average
10	3715.00	29.97	4.60	11.32	45.89	74.00	28.11	Peak
11	4050.00	30.50	4.65	1.18	36.33	54.00	17.67	Average
12	4050.00	30.50	4.65	11.99	47.14	74.00	26.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.

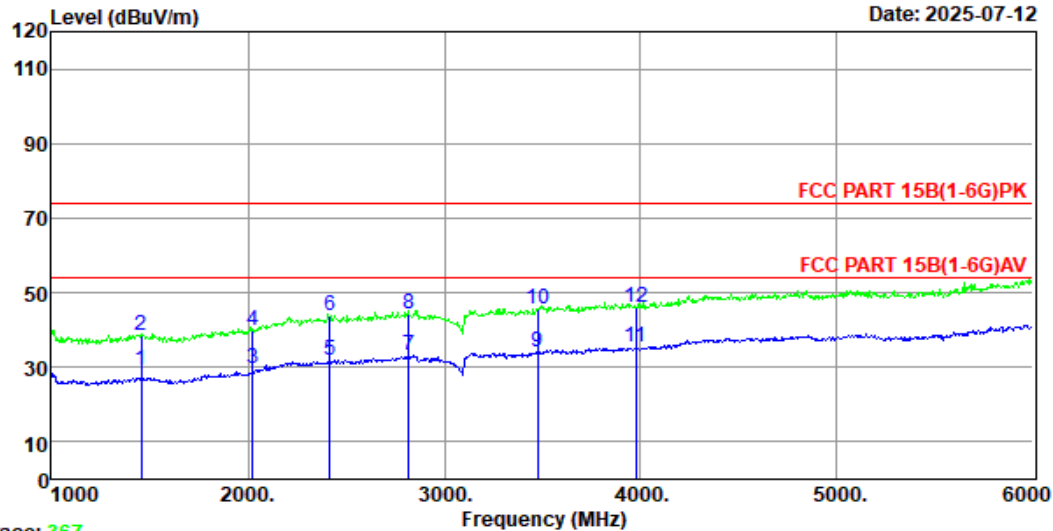
## EST Technology

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Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 392

File: \\EMC-966-1\\test data\\2025\\J\\Jing Heng.EM6 (412)

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 392  
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL  
Limit : FCC PART 15B(1-6G)PK  
Env. / Ins. : Temp:22.4°C.Humi:53%;Press:101.1KPa  
Engineer : Ted Deng  
EUT : LINE ARRAY SPEAKER SYSTEMS  
Power : AC 120V/60Hz  
M/N : L-ARRAY 28HA  
Test Mode : AUDIO INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1455.00	26.30	2.69	0.28	29.27	54.00	24.73	Average
2	1455.00	26.30	2.69	9.35	38.34	74.00	35.66	Peak
3	2025.00	26.50	3.15	0.18	29.83	54.00	24.17	Average
4	2025.00	26.50	3.15	10.22	39.87	74.00	34.13	Peak
5	2415.00	28.10	3.71	0.04	31.85	54.00	22.15	Average
6	2415.00	28.10	3.71	11.93	43.74	74.00	30.26	Peak
7	2820.00	28.53	4.29	0.38	33.20	54.00	20.80	Average
8	2820.00	28.53	4.29	11.29	44.11	74.00	29.89	Peak
9	3475.00	29.33	4.59	0.12	34.04	54.00	19.96	Average
10	3475.00	29.33	4.59	11.63	45.55	74.00	28.45	Peak
11	3975.00	30.35	4.62	0.26	35.23	54.00	18.77	Average
12	3975.00	30.35	4.62	10.87	45.84	74.00	28.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

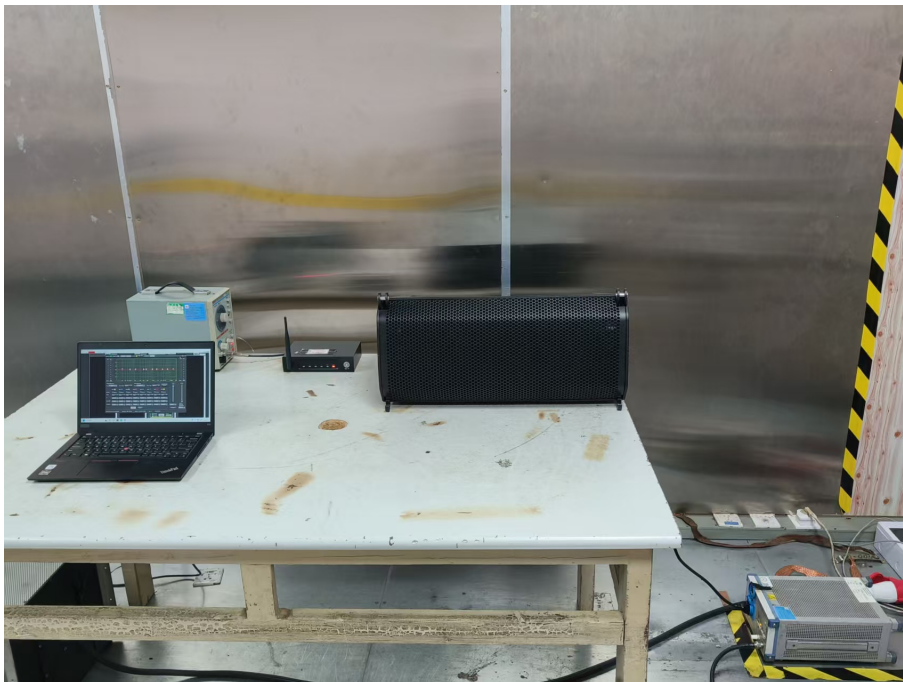


## 5. PHOTOGRAPHS OF TEST SET-UP

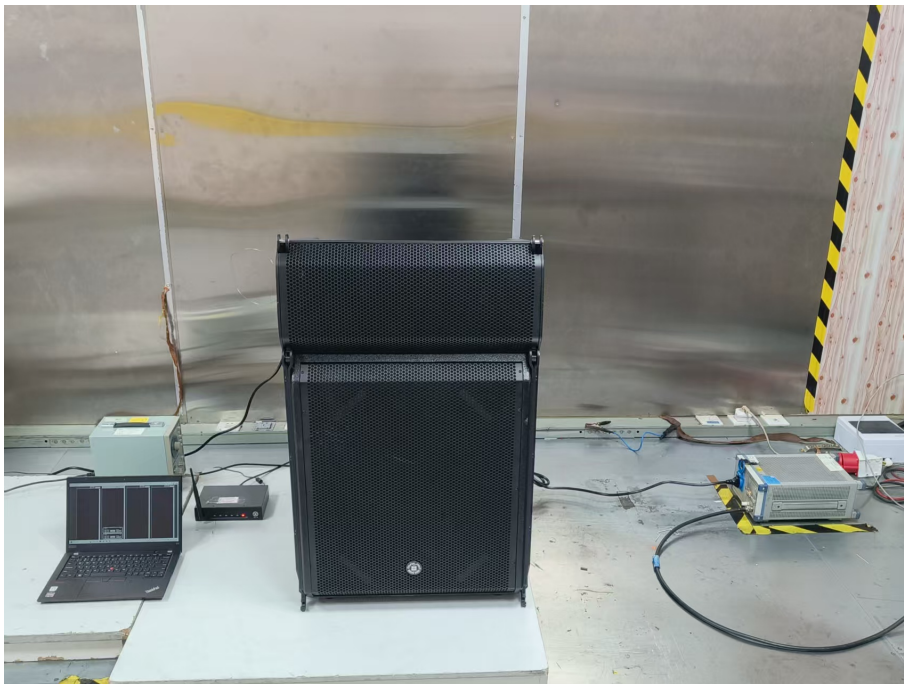
### 5.1. Set-up for Conducted Emission at the Mains Terminals Test



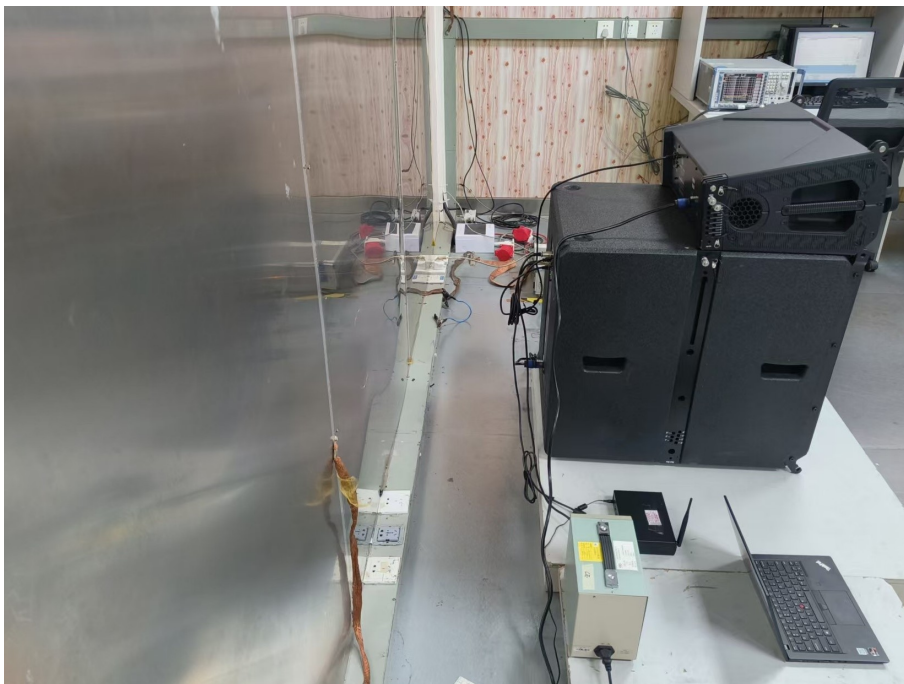
L-ARRAY 28HA



L-ARRAY 28HA

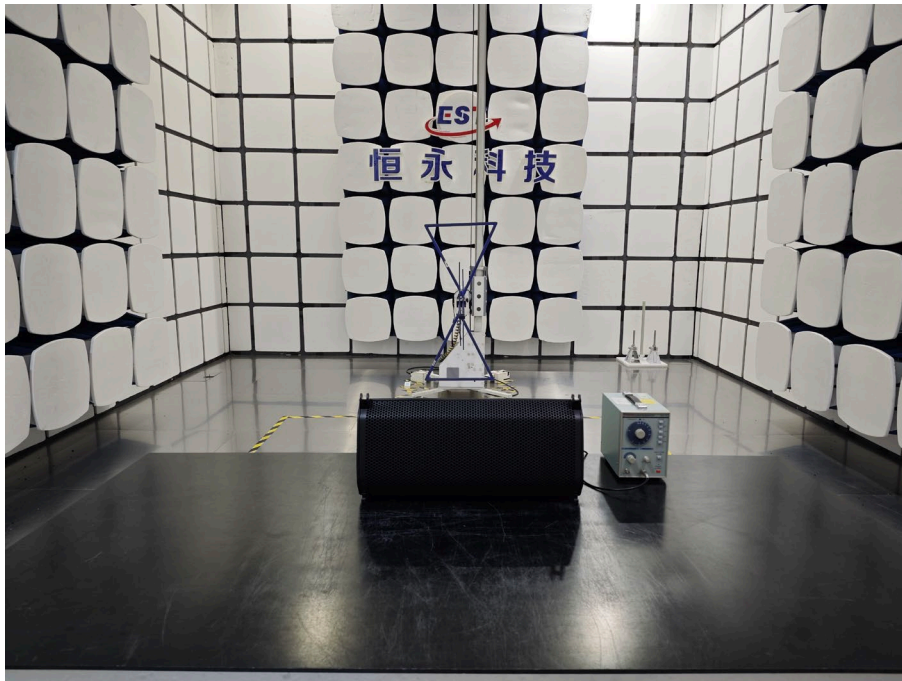


L-ARRAY 18SA

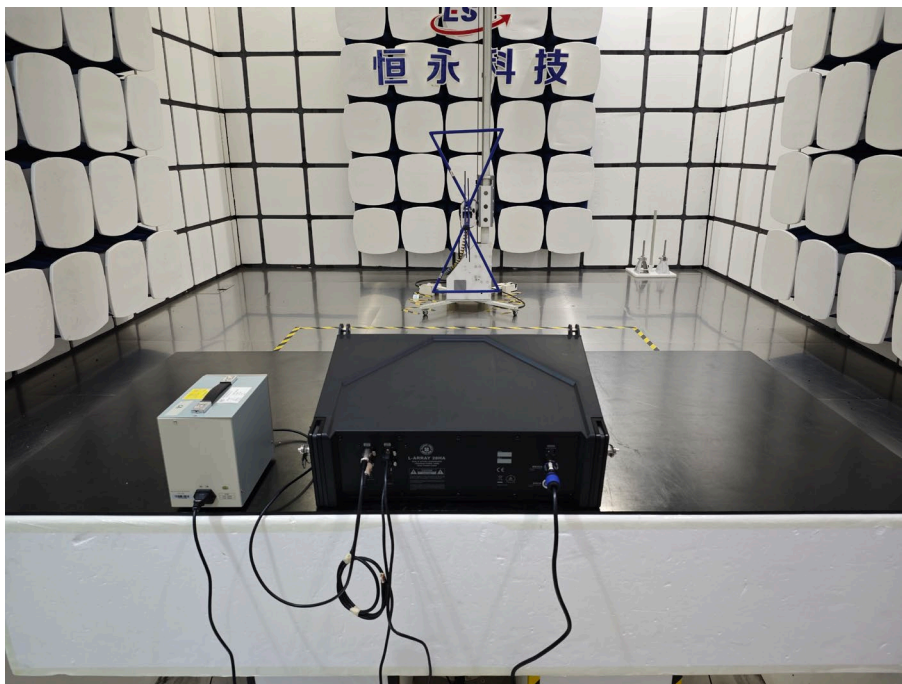


L-ARRAY 18SA

## 5.2.Set-up for Radiated Emission Test(30MHz-1000MHz)

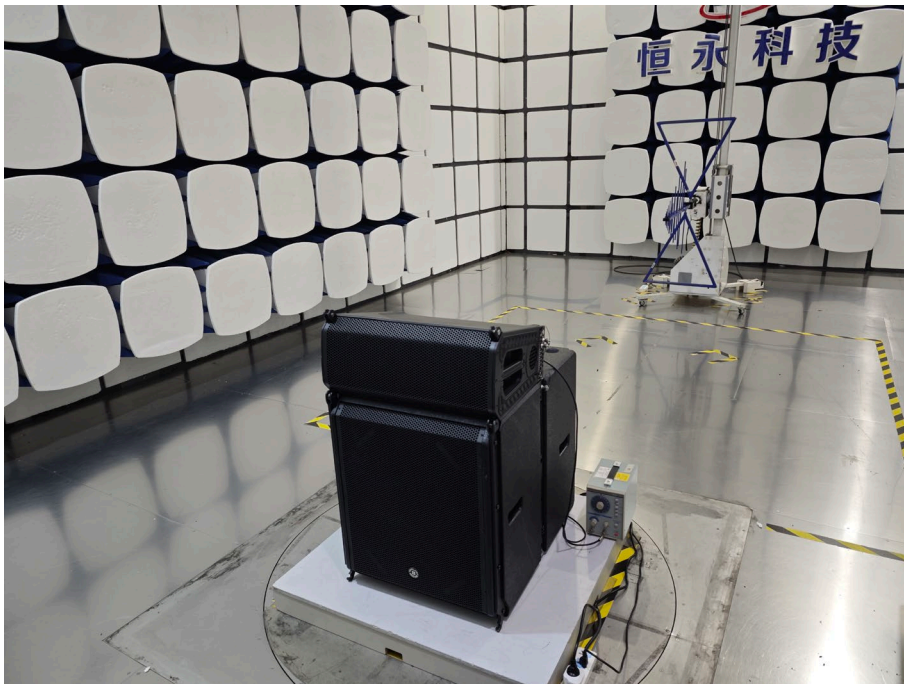


L-ARRAY 28HA

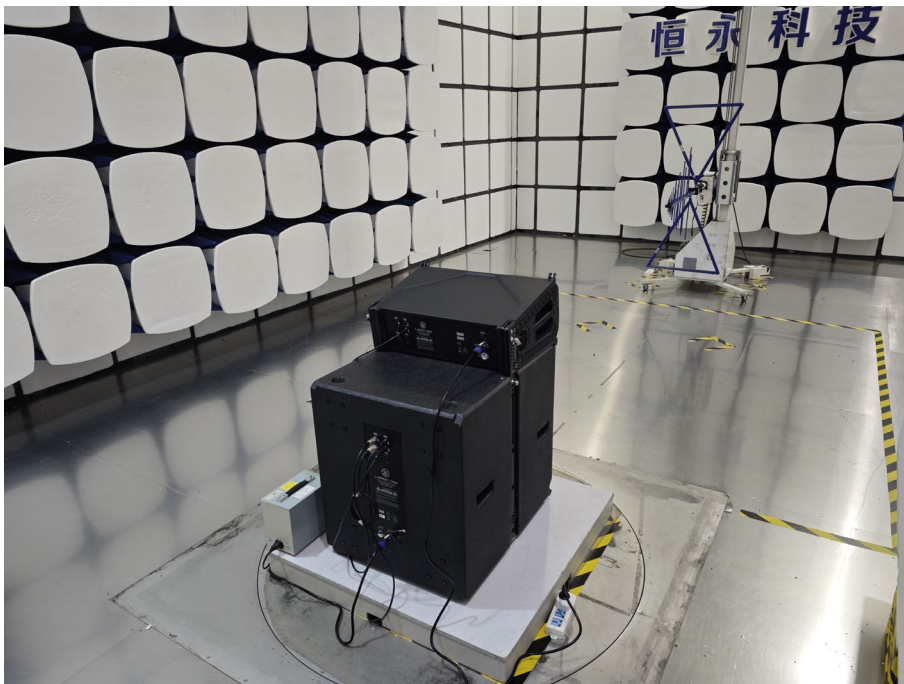


L-ARRAY 28HA



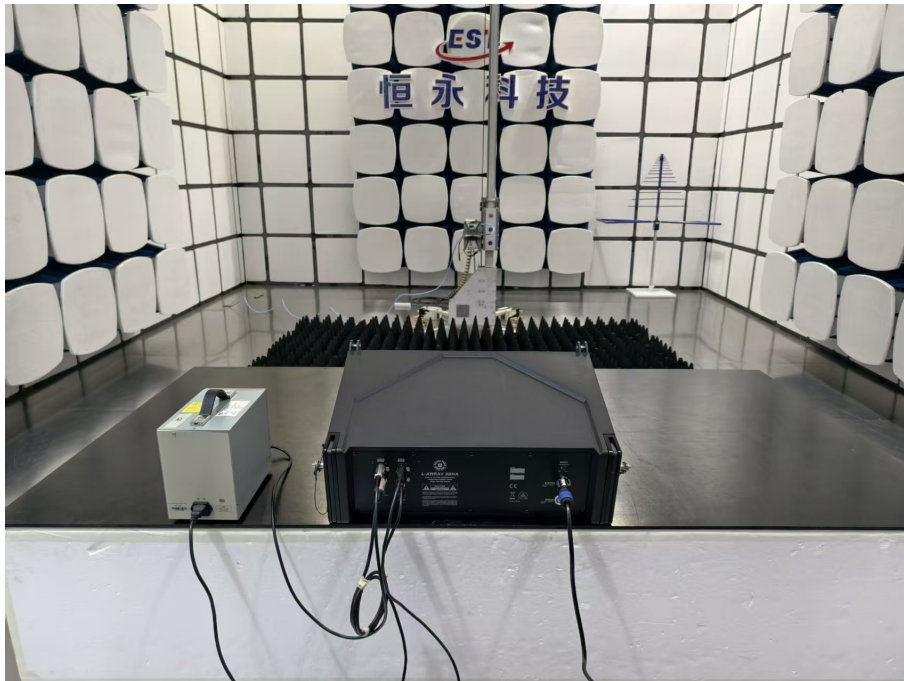


L-ARRAY 18SA

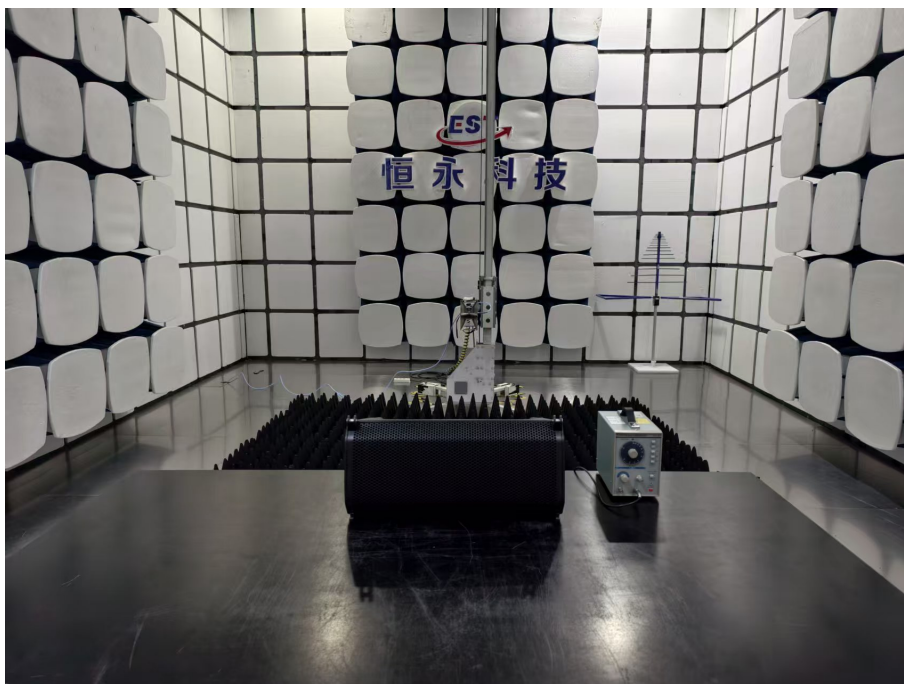


L-ARRAY 18SA

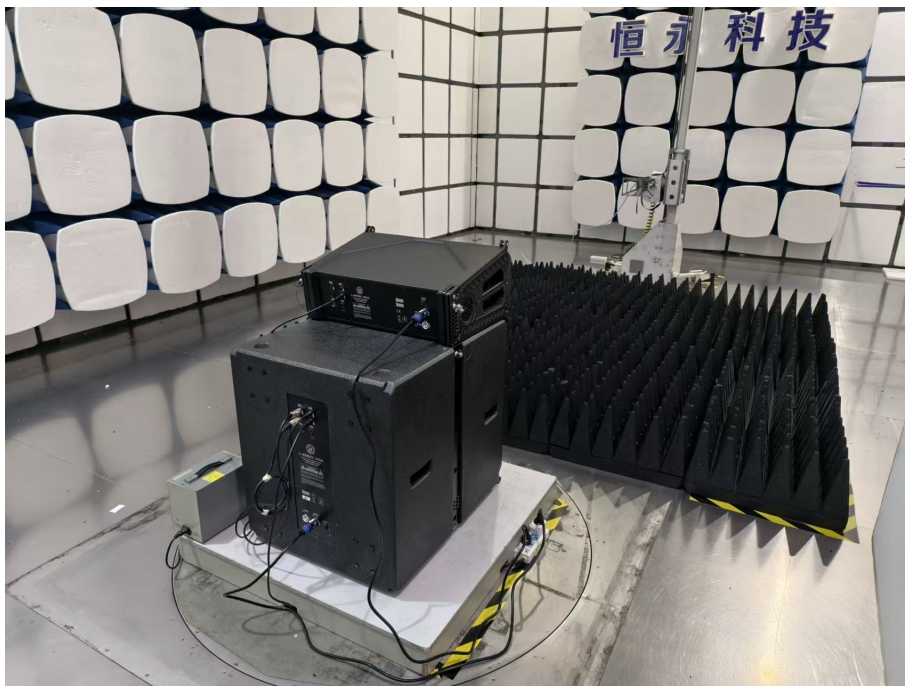
### 5.3.Set-up for Radiated Emission Test(above 1GHz)



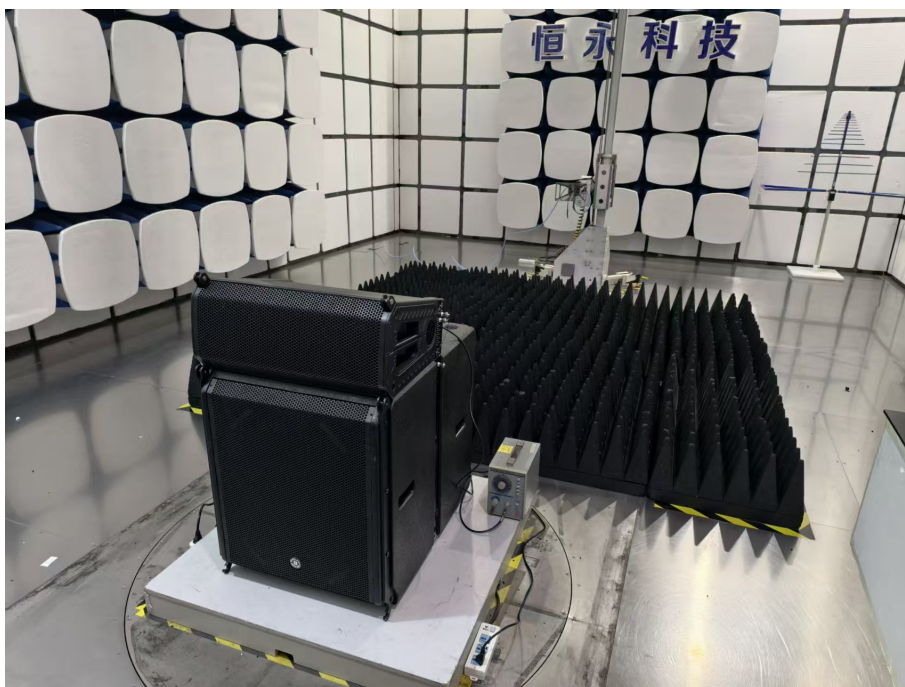
L-ARRAY 28HA



L-ARRAY 28HA



L-ARRAY 18SA



L-ARRAY 18SA



## 6. PHOTOGRAPHS OF THE EUT

M/N: L-ARRAY 28HA

Figure 1

General Appearance of the EUT



Figure 2

General Appearance of the EUT



**Figure 3**  
**General Appearance of the EUT**

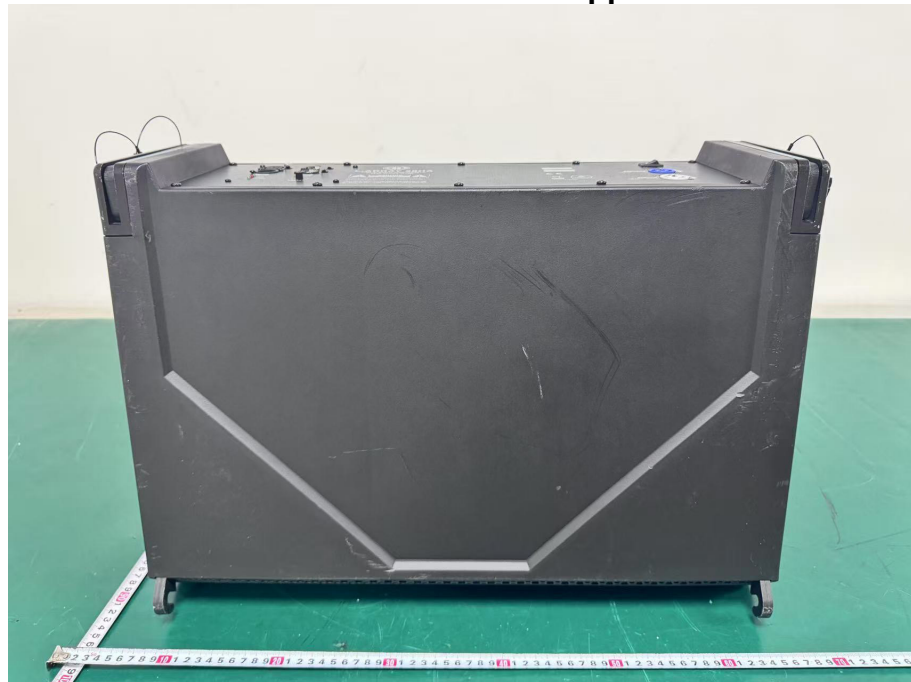


**Figure 4**  
**General Appearance of the EUT**

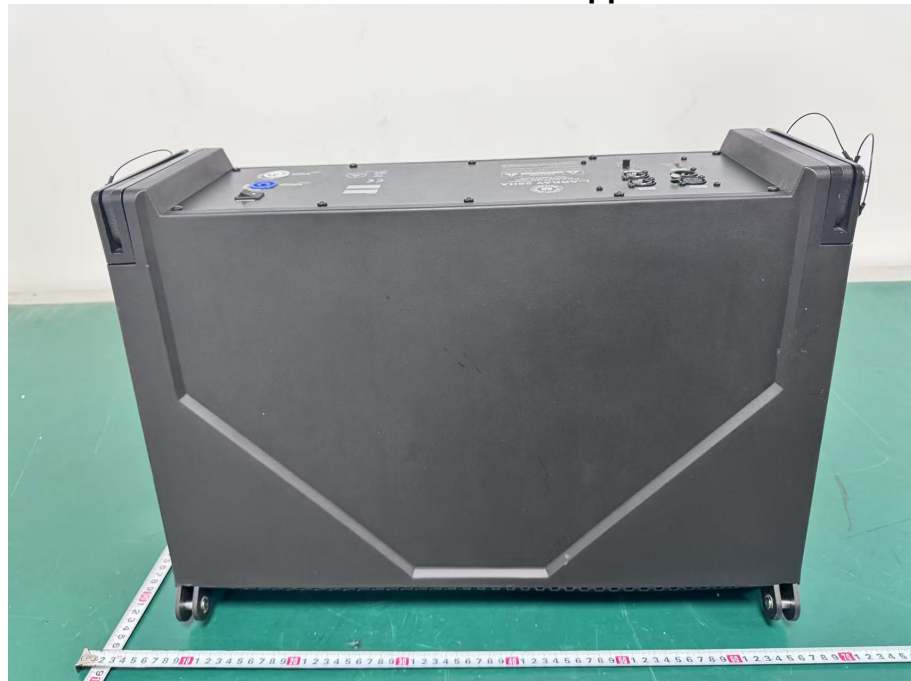




**Figure 5**  
**General Appearance of the EUT**



**Figure 6**  
**General Appearance of the EUT**



**Figure 7**  
**General Appearance of the EUT**



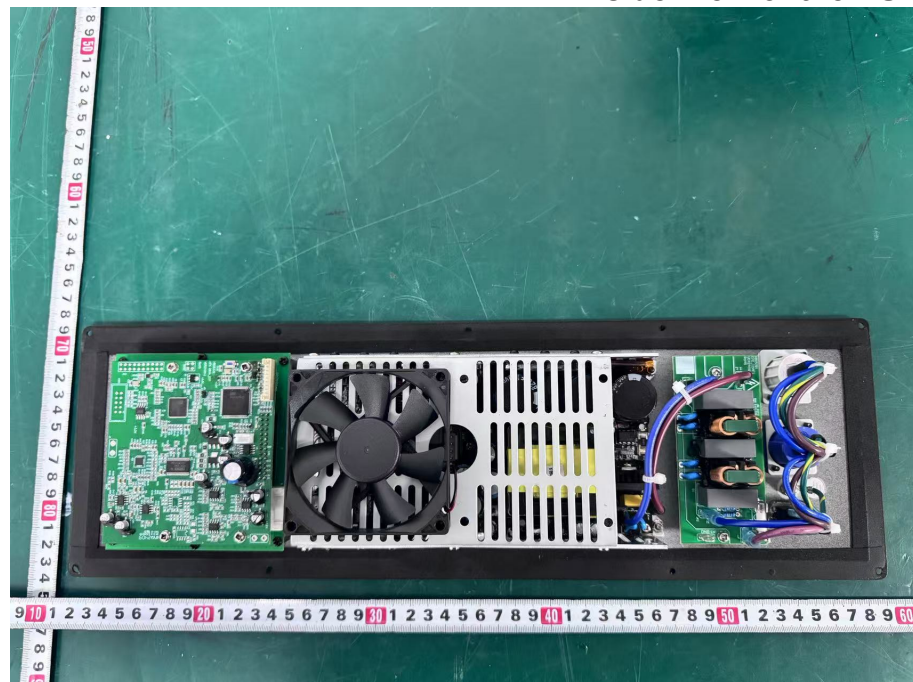
**Figure 8**  
**General Appearance of the EUT**



**Figure 9**  
**Inside View of the EUT**

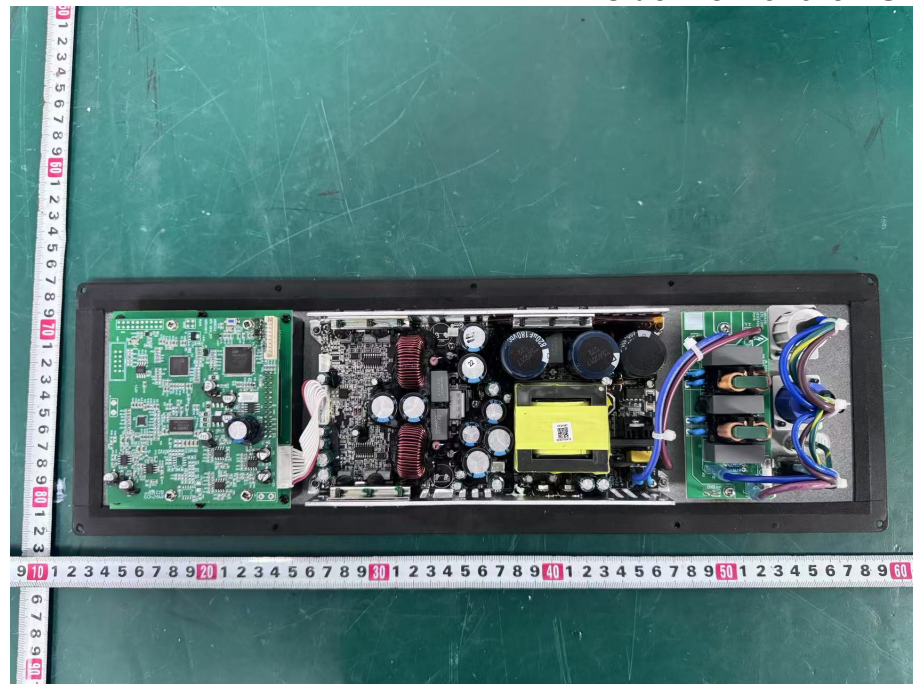


**Figure 10**  
**Inside View of the EUT**

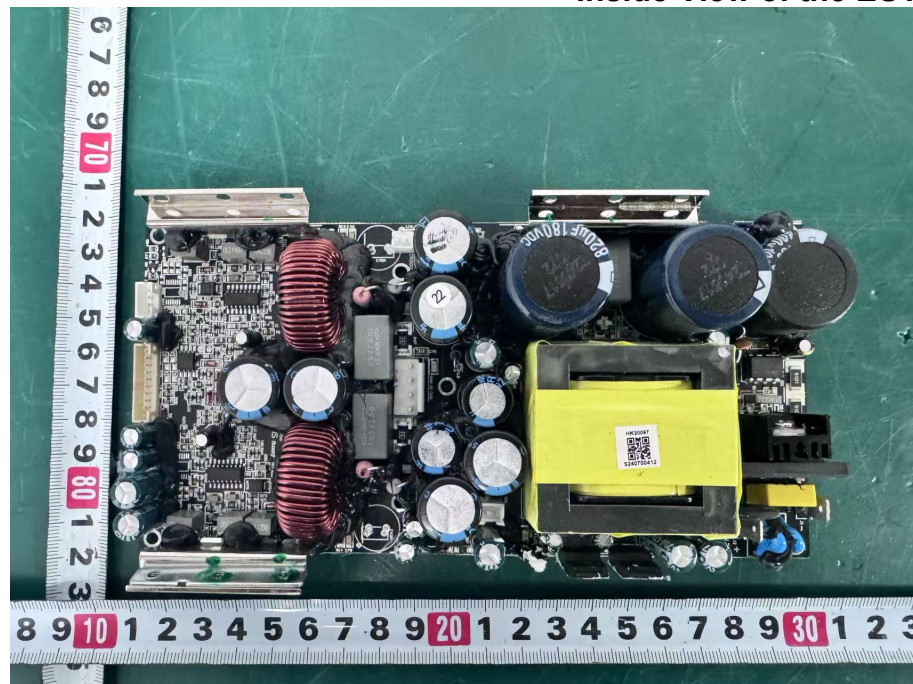




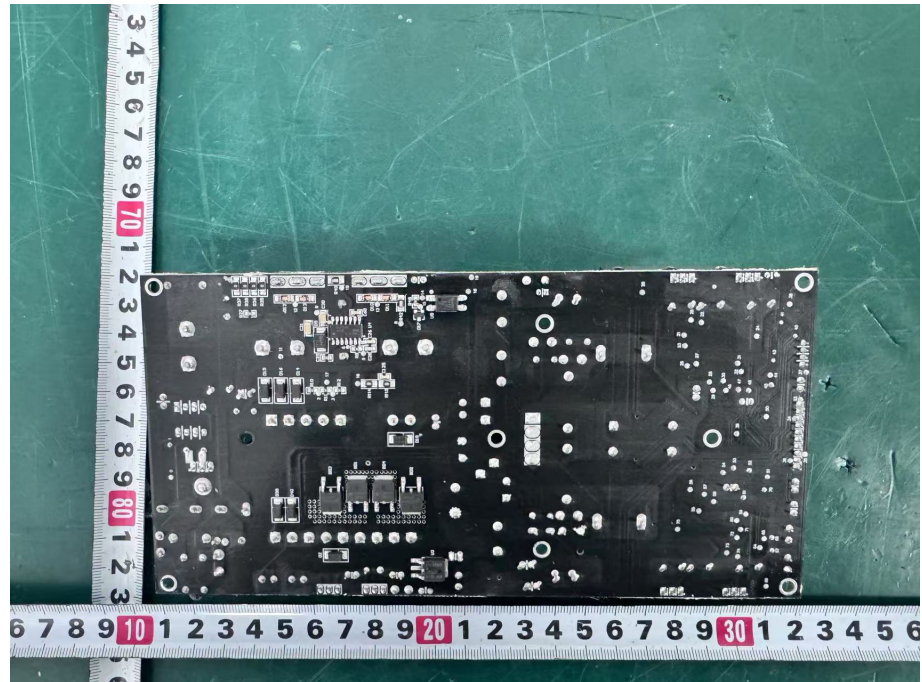
**Figure 11**  
**Inside View of the EUT**



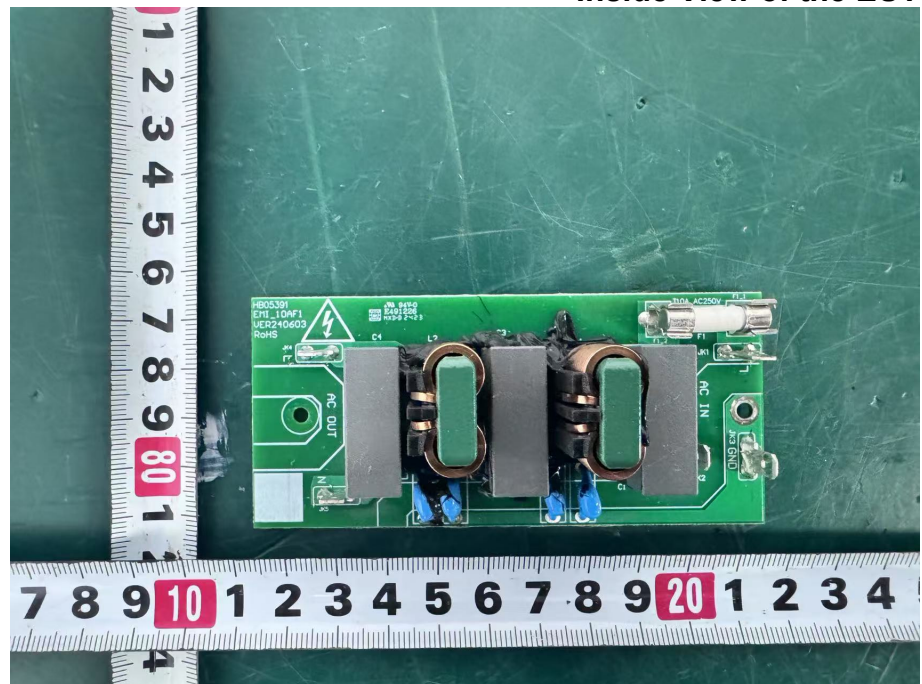
**Figure 12**  
**Inside View of the EUT**



**Figure 13**  
**Inside View of the EUT**

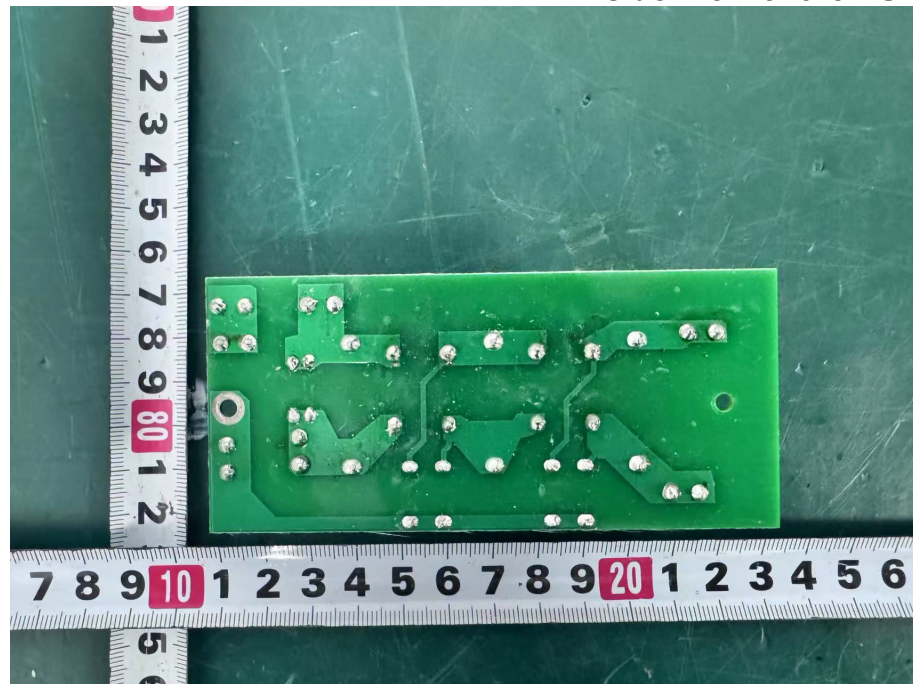


**Figure 14**  
**Inside View of the EUT**

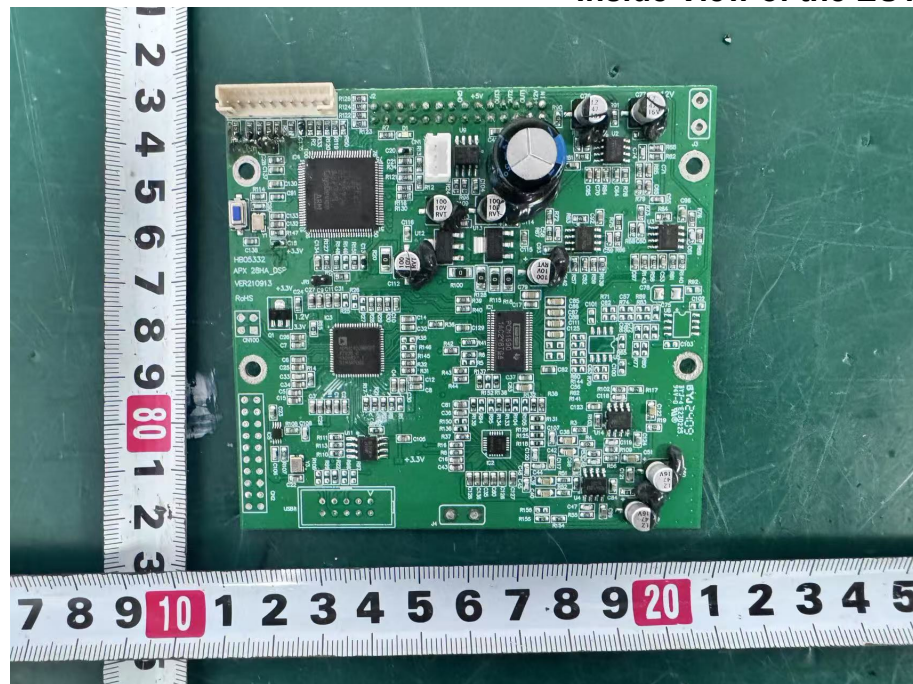




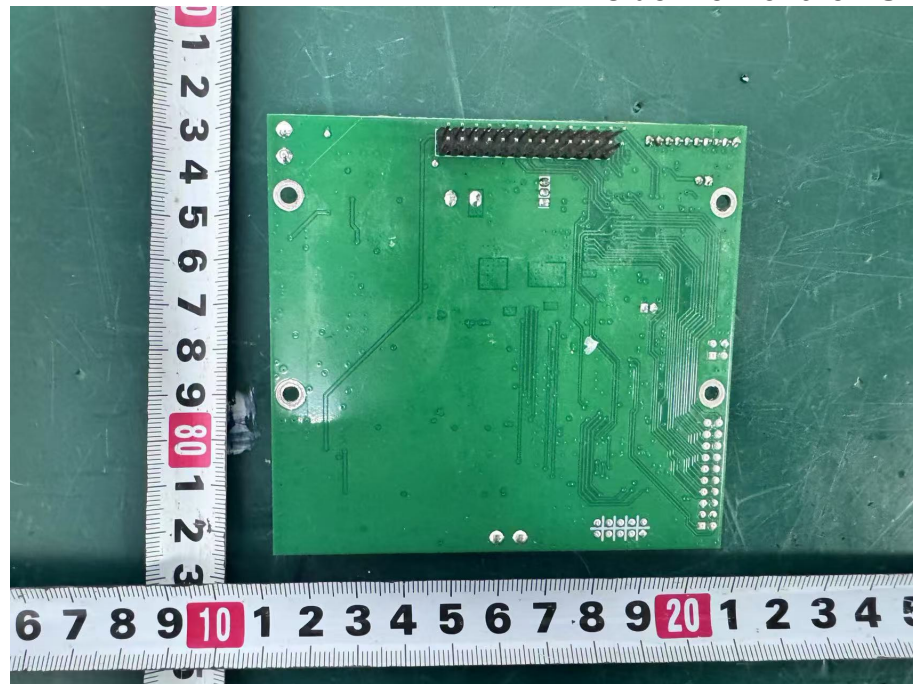
**Figure 15**  
**Inside View of the EUT**



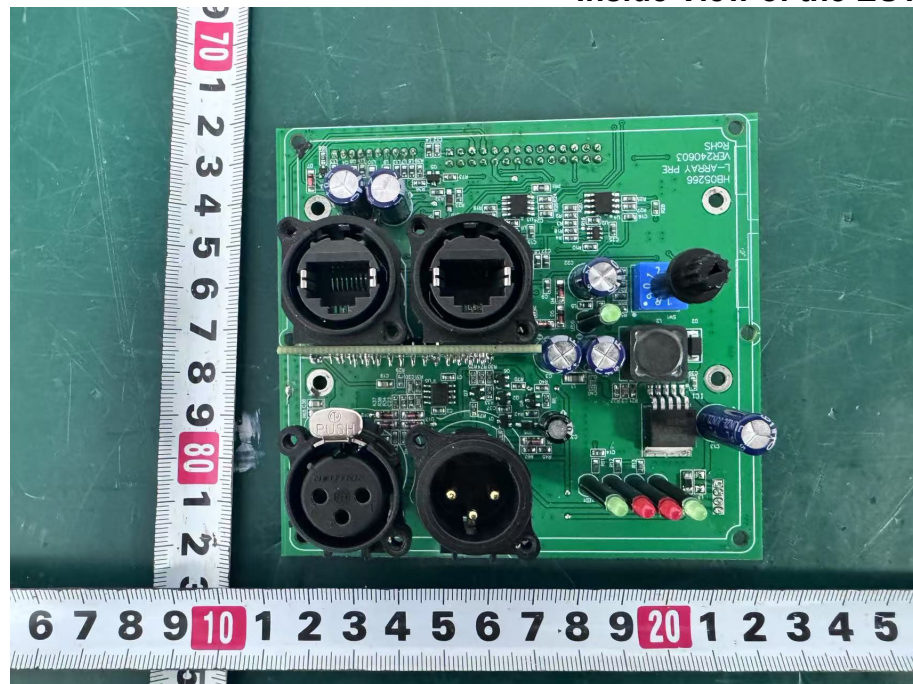
**Figure 16**  
**Inside View of the EUT**



**Figure 17**  
**Inside View of the EUT**

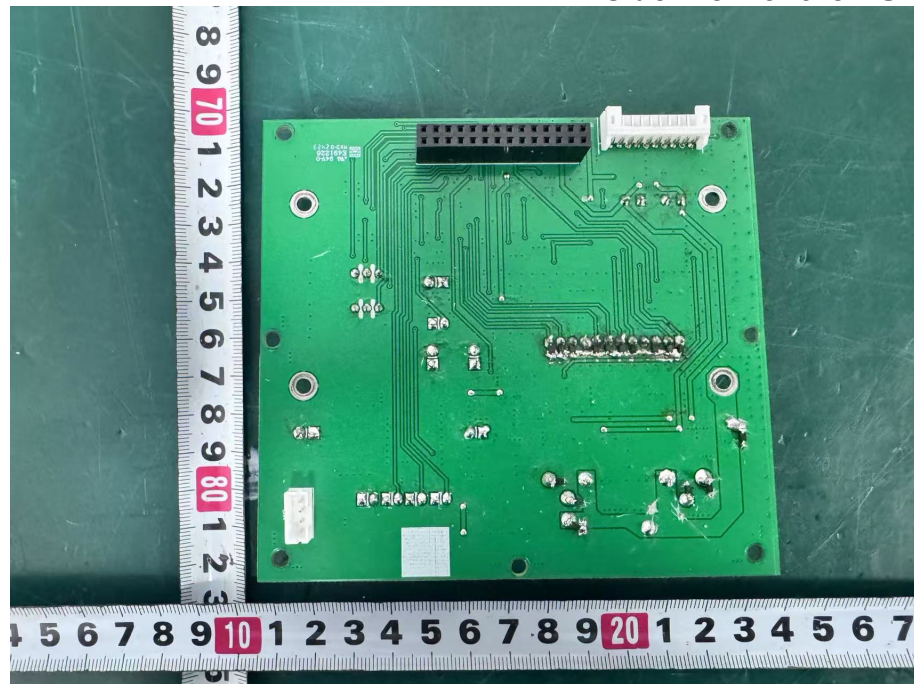


**Figure 18**  
**Inside View of the EUT**





**Figure 19**  
**Inside View of the EUT**





**M/N: L-ARRAY 18SA**  
**Figure 20**  
**General Appearance of the EUT**



**Figure 21**  
**General Appearance of the EUT**



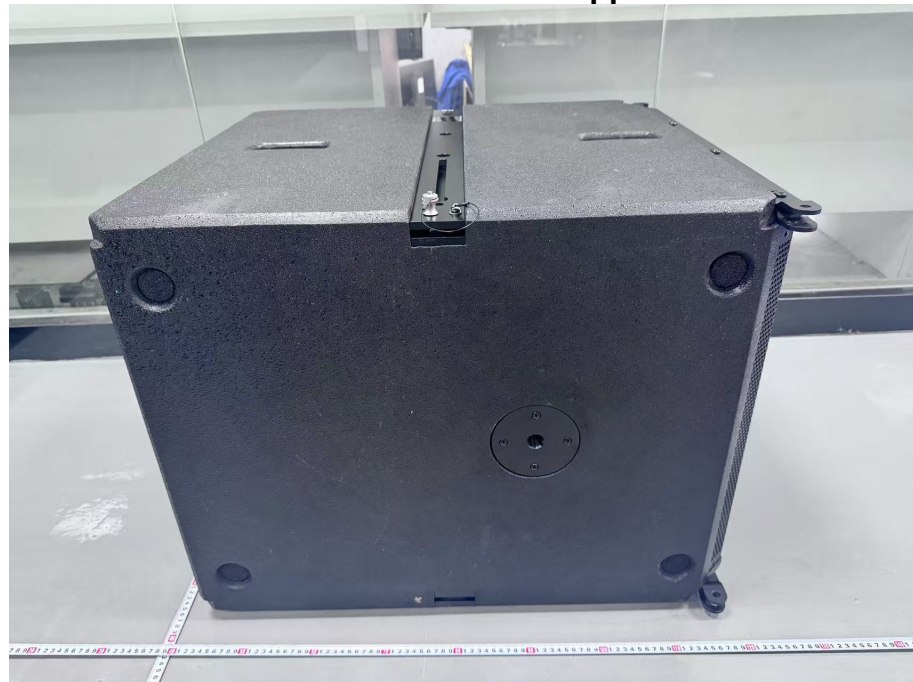
**Figure 22**  
**General Appearance of the EUT**



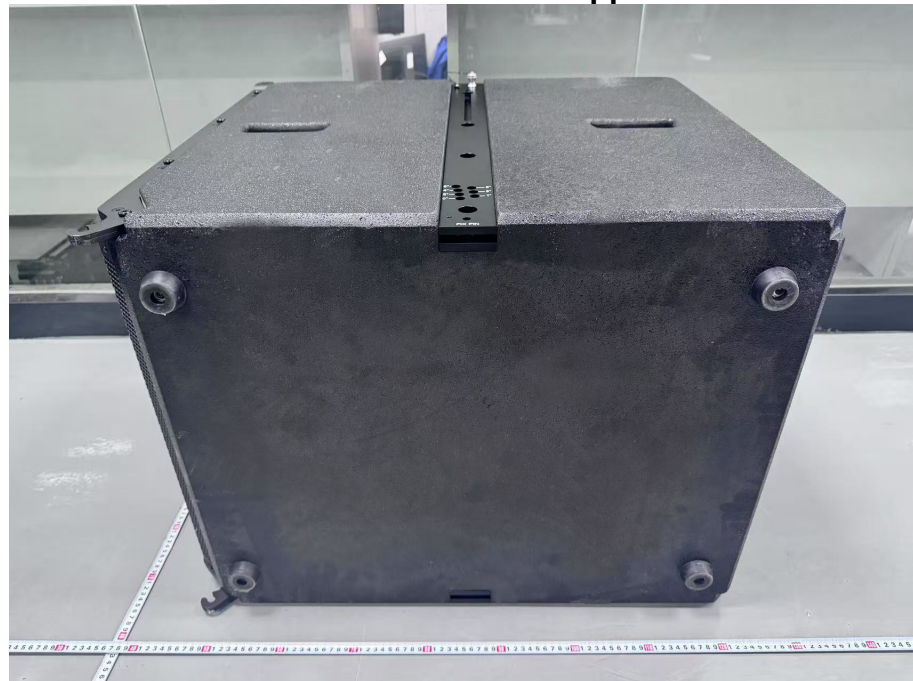
**Figure 23**  
**General Appearance of the EUT**



**Figure 24**  
**General Appearance of the EUT**



**Figure 25**  
**General Appearance of the EUT**





**Figure 26**  
**General Appearance of the EUT**



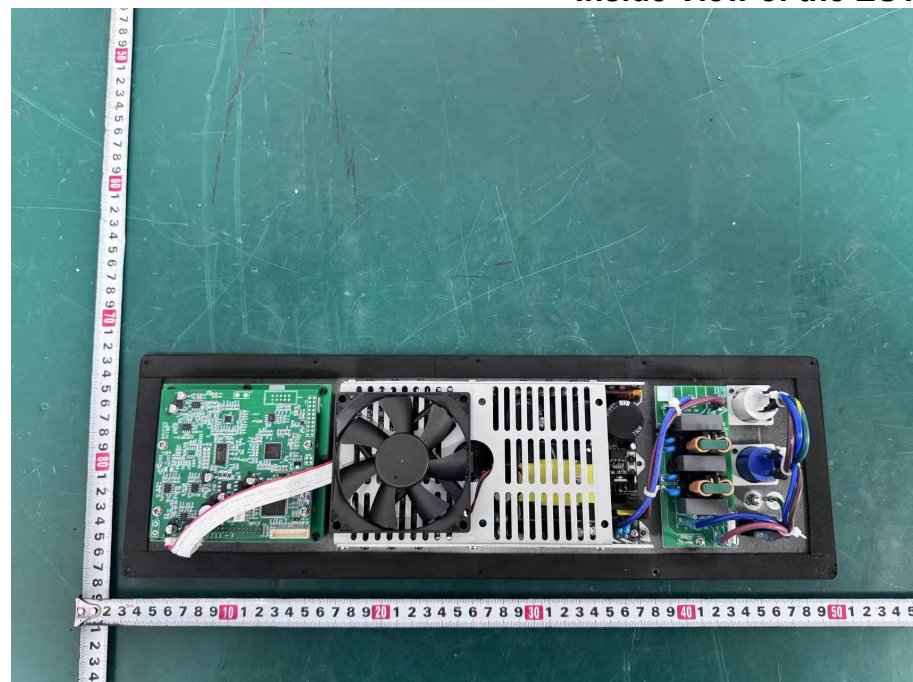
**Figure 27**  
**General Appearance of the EUT**



**Figure 28**  
**Inside View of the EUT**

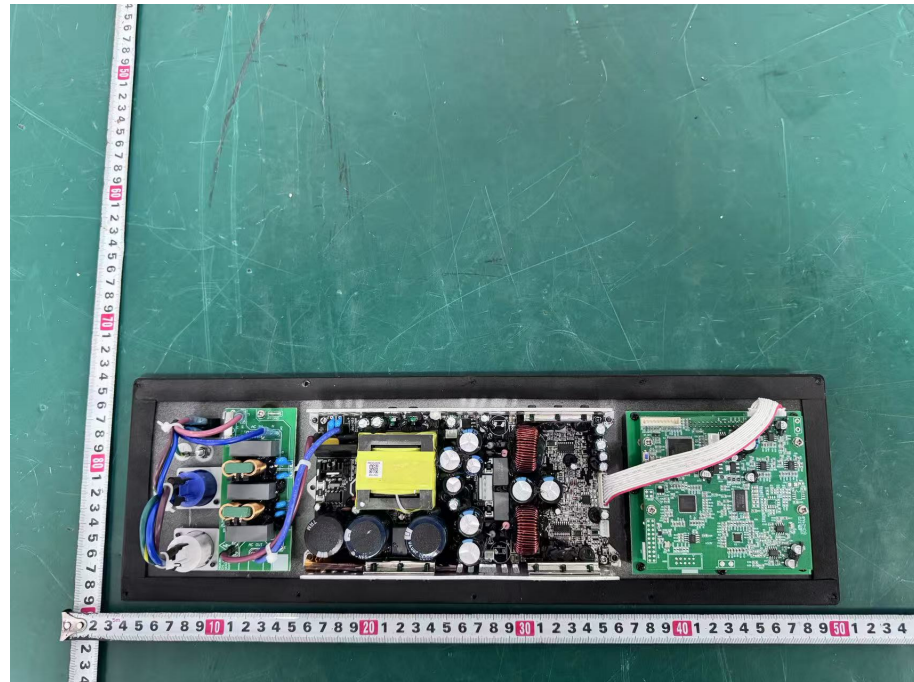


**Figure 29**  
**Inside View of the EUT**

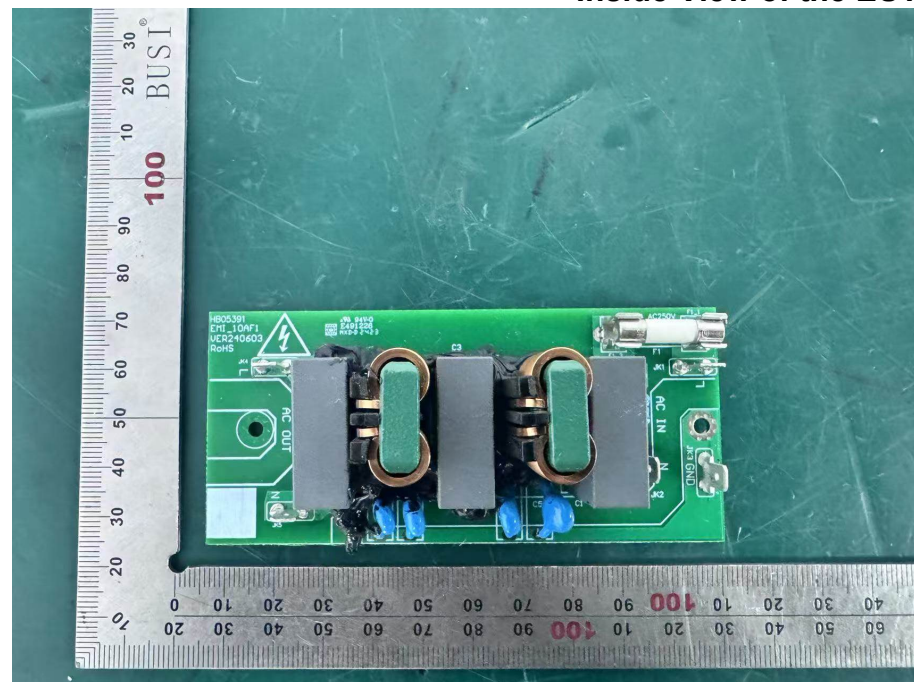




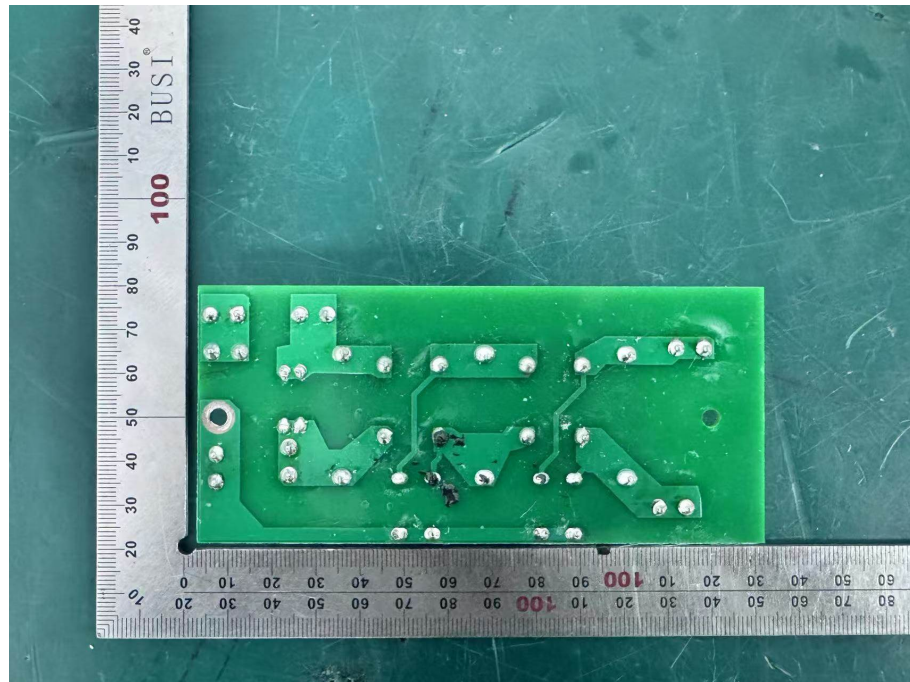
**Figure 30**  
**Inside View of the EUT**



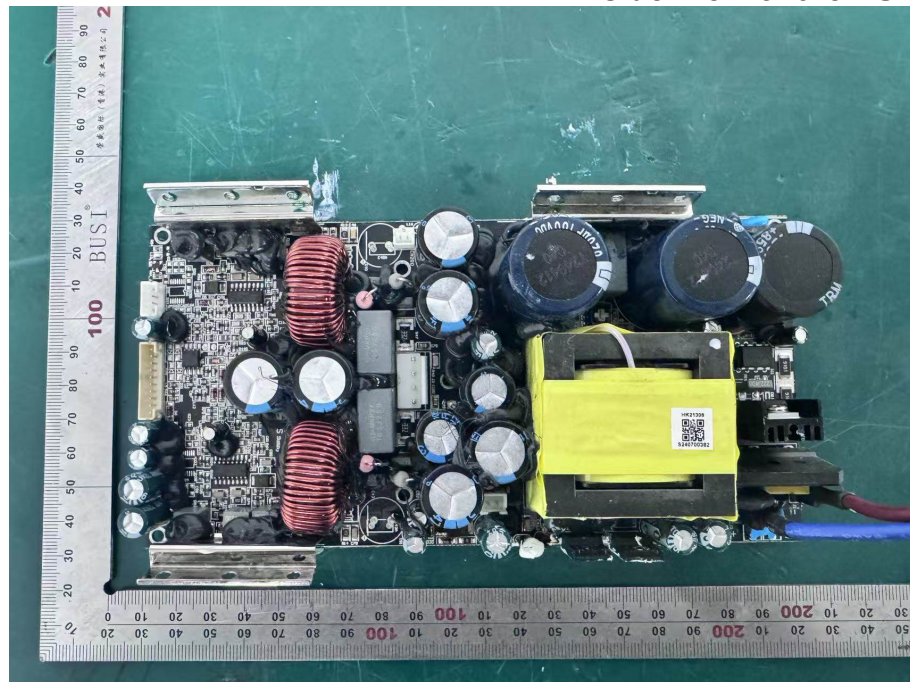
**Figure 31**  
**Inside View of the EUT**



**Figure 32**  
**Inside View of the EUT**

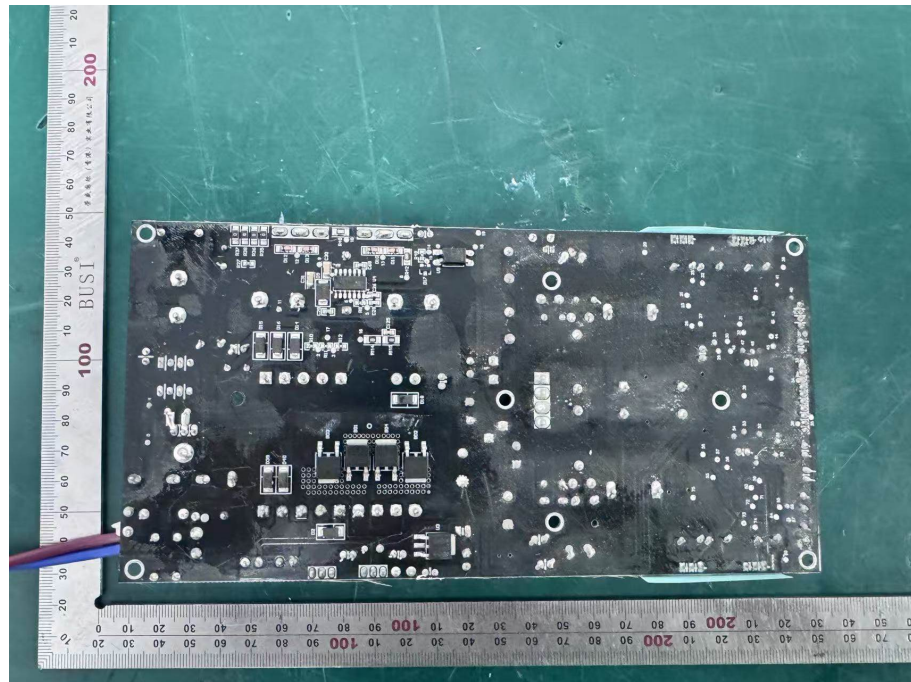


**Figure 33**  
**Inside View of the EUT**

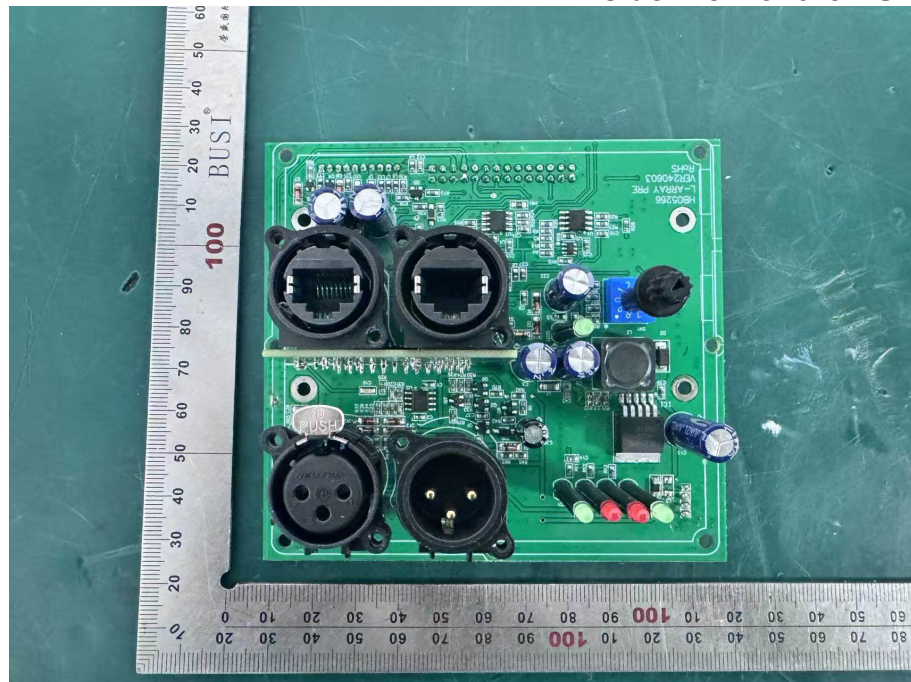




**Figure 34**  
**Inside View of the EUT**

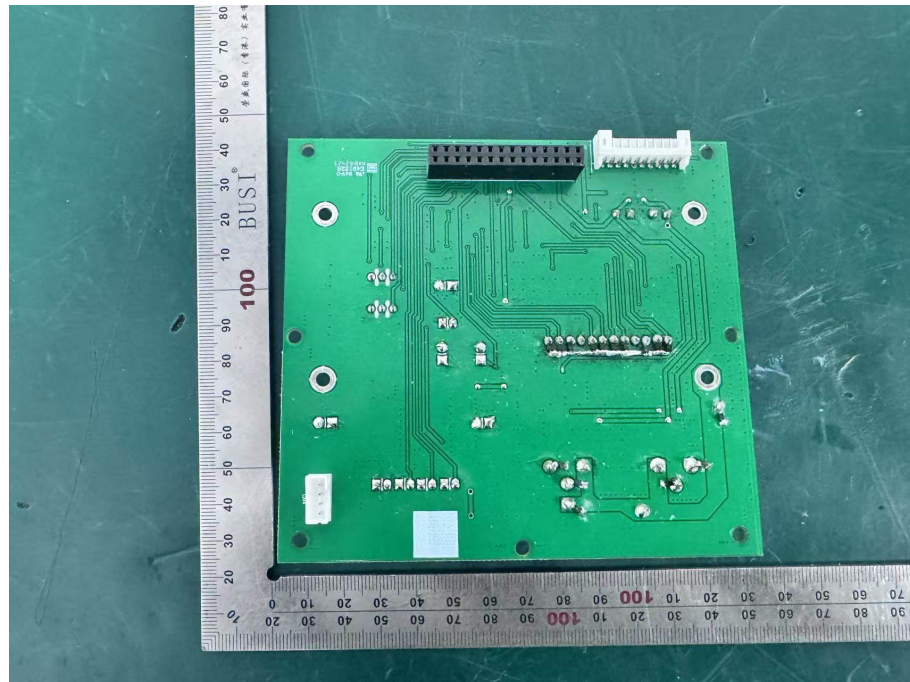


**Figure 35**  
**Inside View of the EUT**

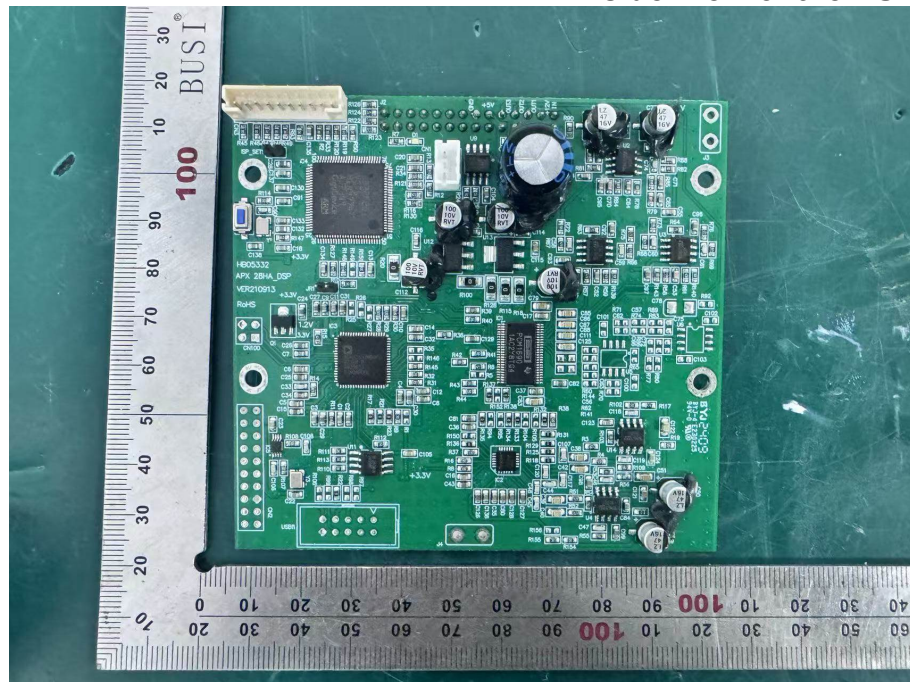




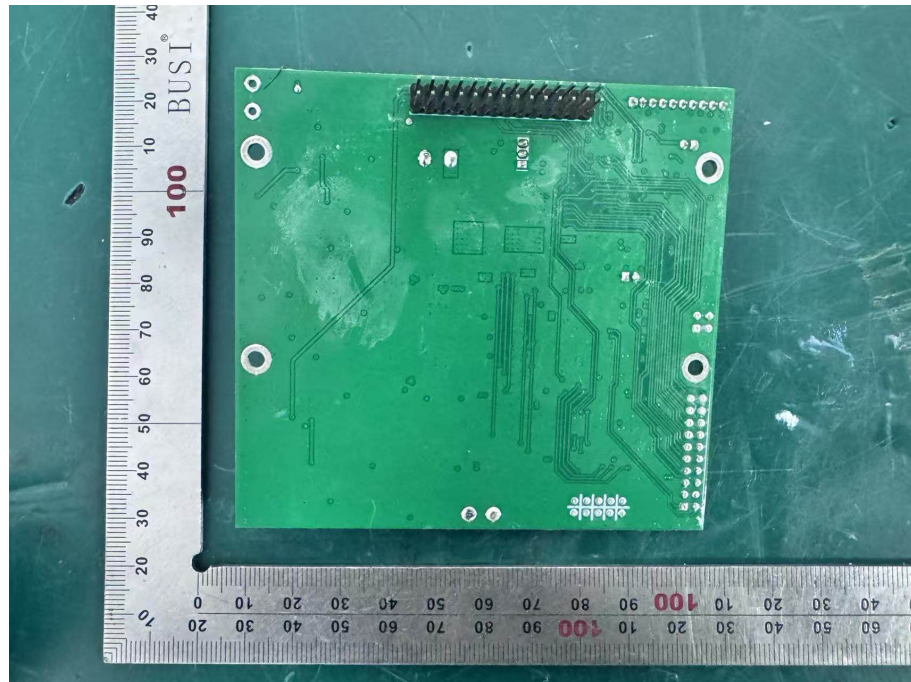
**Figure 36**  
**Inside View of the EUT**



**Figure 37**  
**Inside View of the EUT**



**Figure 38**  
**Inside View of the EUT**



**End of Test Report**