

ISED COMPLIANCE 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-I2507018

Date of Report : Jul. 21, 2025

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Applicant:	Dongguan Jingheng Electron Co., Ltd.
Address:	Room 101, Building 1, No.15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P.R. China
Manufacturer:	Dongguan Jingheng Electron Co., Ltd.
Address:	Room 101, Building 1, No.15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P.R. China
Factory:	Dongguan Jingheng Electron Co., Ltd.
Address:	No.15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P.R. China

E.U.T: LINE ARRAY SPEAKER SYSTEMS

Model Number: L-ARRAY 28HA, L-ARRAY 18SA, FLX 28HA, FLX 18SA

Trade Name: TOPP PRO, SHOW **Serial No.:** -----

Date of Receipt: Jun. 13, 2025 **Date of Test:** Jul. 12, 2025

Test Specification: ICES-003 Issue 7:2020
ANSI C63.4-2014

Test Result: The equipment under test was found to be compliance with the requirements of the standards applied.

Issue Date: Jul. 21, 2025

Prepared by:

Reviewed by:

Approved by:



Yana Wang / Assistant



Bible Hu / Engineer



Iceman Hu / Manager

Other Aspects:
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
Power Line Conducted Emission Test	ICES-003:2020	Class B	PASS
		Minimum passing margin is 6.67dB at 10.18MHz	
Radiated Emission Test	ICES-003:2020	Class B	PASS
		Minimum passing margin is 6.16dB at 147.37MHz	
Radiated Emission Test (above 1GHz)	ICES-003:2020	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
Artificial Mains Network	SCHWABE	NSLK 8128	EST-E029	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	Tesq	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	SCHWABE	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

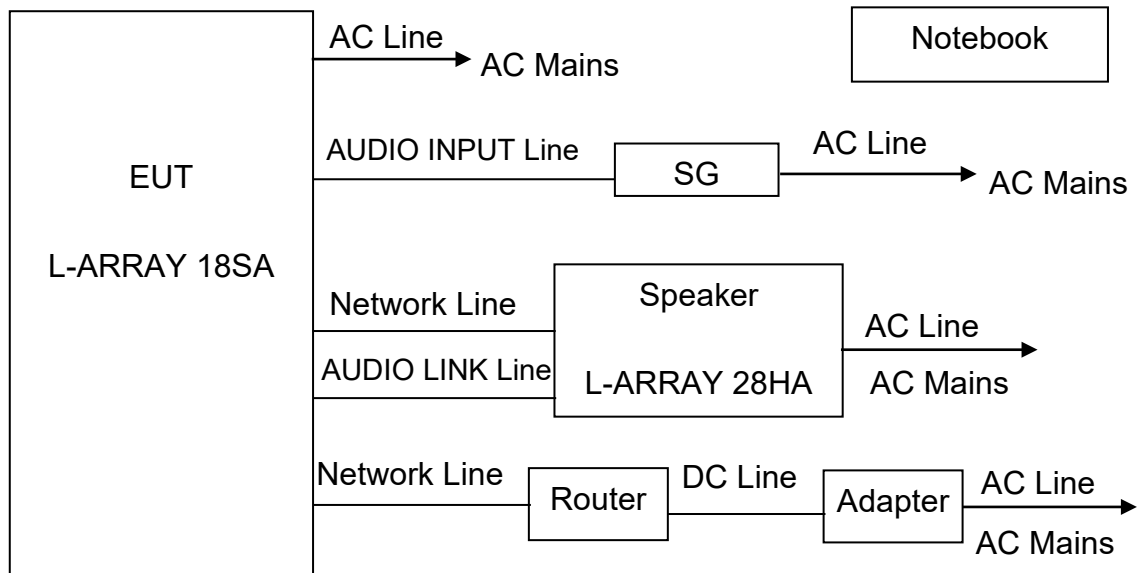
3. TEST SET-UP AND OPERATION MODES

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



(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 ~ 30MHz
 Test Site : 1# CE Shielded Room
 Limits : ICES-003:2020 Class B

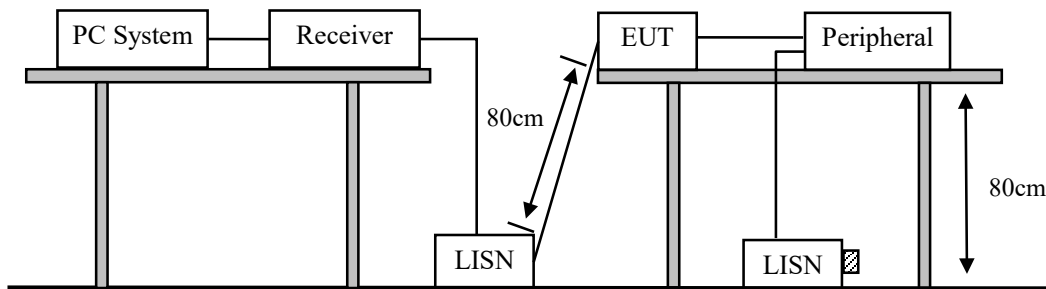
Test Setup

Date of test : Jul. 12, 2025
 Model No. : L-ARRAY 28HA, L-ARRAY 18SA
 Input Voltage : AC 120V/60Hz
 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: $\pm 3.44\text{dB}$ at a level of confidence of 95%.(1#CE)

Test Data

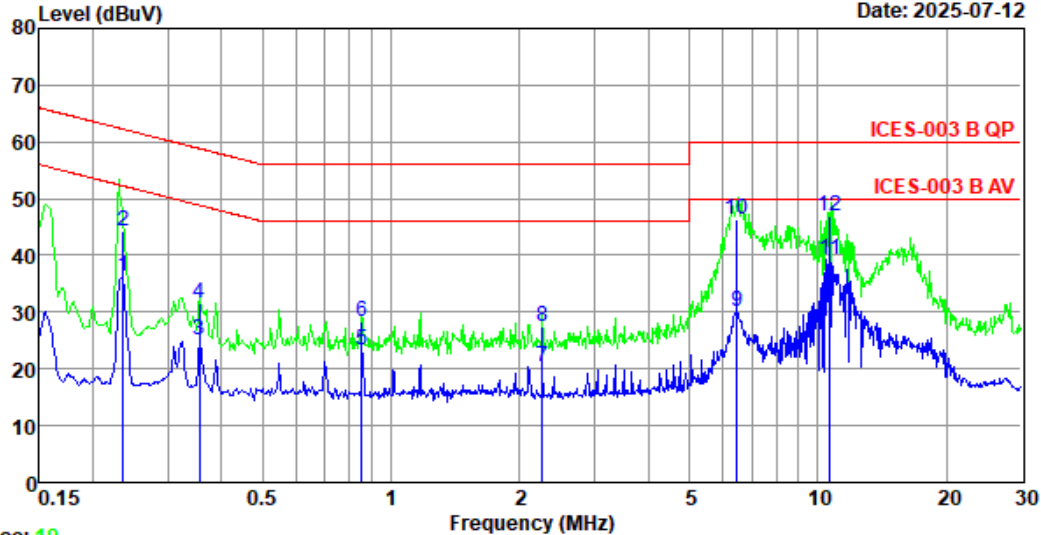
EST Technology

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

Data: 68

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

Date: 2025-07-12



Trace: 19

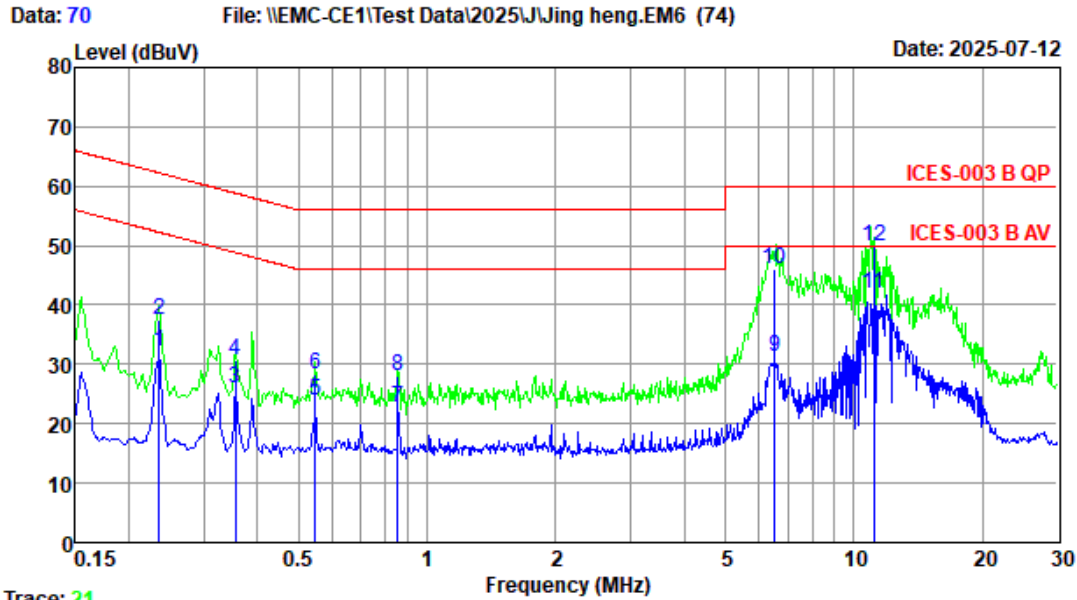
Site no : 1#CE Shield Room Data no. : 68
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : LINE
Limit : ICES-003 B QP
Engineer : Micheal Huang
EUT : LINE ARRAY SPEAKER SYSTEMS
Power : AC 120V/60Hz
M/N : L-ARRAY 18SA
Test Mode : AUDIO INPUT

	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.

EST Technology

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



Trace: 21
Site no : 1#CE Shield Room Data no. : 70
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : NEUTRAL
Limit : ICES-003 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.

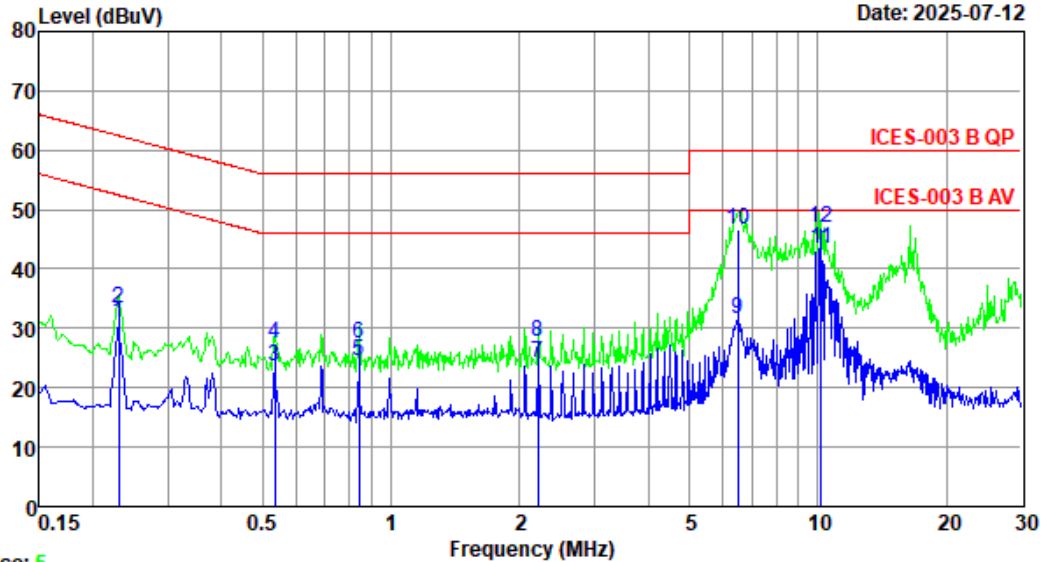
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Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 72

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

Date: 2025-07-12



Trace: 5

Site no : 1#CE Shield Room Data no. : 72
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : LINE
Limit : ICES-003 B QP
Engineer : Micheal Huang
EUT : LINE ARRAY SPEAKER SYSTEMS
Power : AC 120V/60Hz
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	10.88	30.86	52.44	21.58	Average
2	0.23	10.11	9.87	13.28	33.26	62.44	29.18	QP
3	0.53	10.14	9.87	3.53	23.54	46.00	22.46	Average
4	0.53	10.14	9.87	7.52	27.53	56.00	28.47	QP
5	0.84	10.15	9.88	4.37	24.40	46.00	21.60	Average
6	0.84	10.15	9.88	7.44	27.47	56.00	28.53	QP
7	2.21	10.15	9.89	4.26	24.30	46.00	21.70	Average
8	2.21	10.15	9.89	7.82	27.86	56.00	28.14	QP
9	6.49	10.14	9.92	11.51	31.57	50.00	18.43	Average
10	6.49	10.14	9.92	26.69	46.75	60.00	13.25	QP
11	10.18	10.14	9.94	23.25	43.33	50.00	6.67	Average
12	10.18	10.14	9.94	26.85	46.93	60.00	13.07	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.

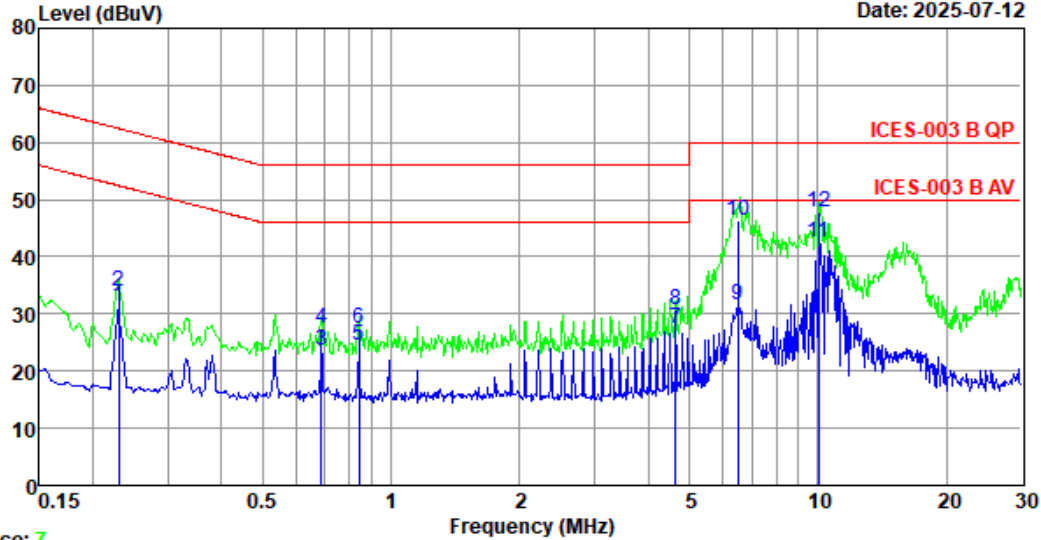
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Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 74

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Date: 2025-07-12



Trace: 7

Site no : 1#CE Shield Room Data no. : 74
Env. / Ins. : Temp:24.6°C;Humi:52%;Press:101.10kPa LINE Phase : NEUTRAL
Limit : ICES-003 B QP
Engineer : Micheal Huang
EUT : LINE ARRAY SPEAKER SYSTEMS
Power : AC 120V/60Hz
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	11.22	31.20	52.44	21.24	Average
2	0.23	10.11	9.87	13.93	33.91	62.44	28.53	QP
3	0.69	10.14	9.87	3.51	23.52	46.00	22.48	Average
4	0.69	10.14	9.87	7.55	27.56	56.00	28.44	QP
5	0.84	10.20	9.88	4.40	24.48	46.00	21.52	Average
6	0.84	10.20	9.88	7.43	27.51	56.00	28.49	QP
7	4.65	10.18	9.91	7.22	27.31	46.00	18.69	Average
8	4.65	10.18	9.91	10.55	30.64	56.00	25.36	QP
9	6.49	10.20	9.92	11.35	31.47	50.00	18.53	Average
10	6.49	10.20	9.92	26.27	46.39	60.00	13.61	QP
11	10.02	10.17	9.94	22.51	42.62	50.00	7.38	Average
12	10.02	10.17	9.94	27.62	47.73	60.00	12.27	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.

4.2. Radiated Emission Test (30MHz-1000MHz)

RESULT : **Pass**
 Test procedure : ANSI C63.4-2014
 Frequency range : 30MHz-1000MHz
 Test Site : 1#966 Chamber
 Limits : ICES-003:2020 Class B

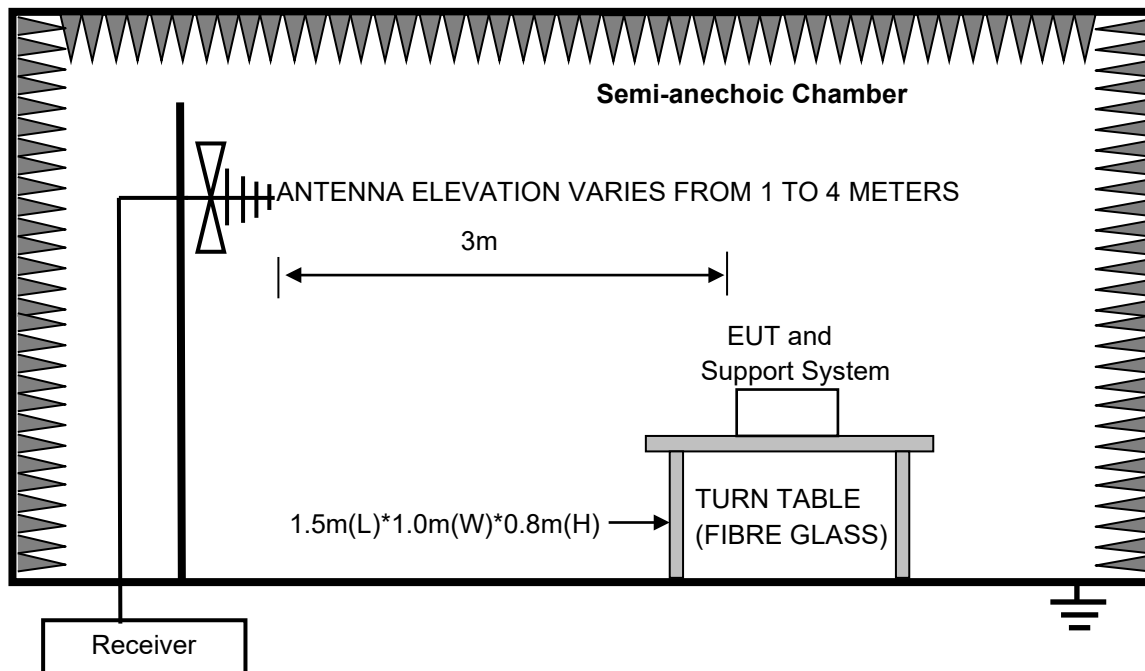
Test Setup

Date of test : Jul. 12, 2025
 Model No. : L-ARRAY 28HA, L-ARRAY 18SA
 Input Voltage : AC 120V/60Hz
 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: ± 4.36 dB (H); ± 4.72 dB (V) at a level of confidence of 95%.(1#966)

Test Data

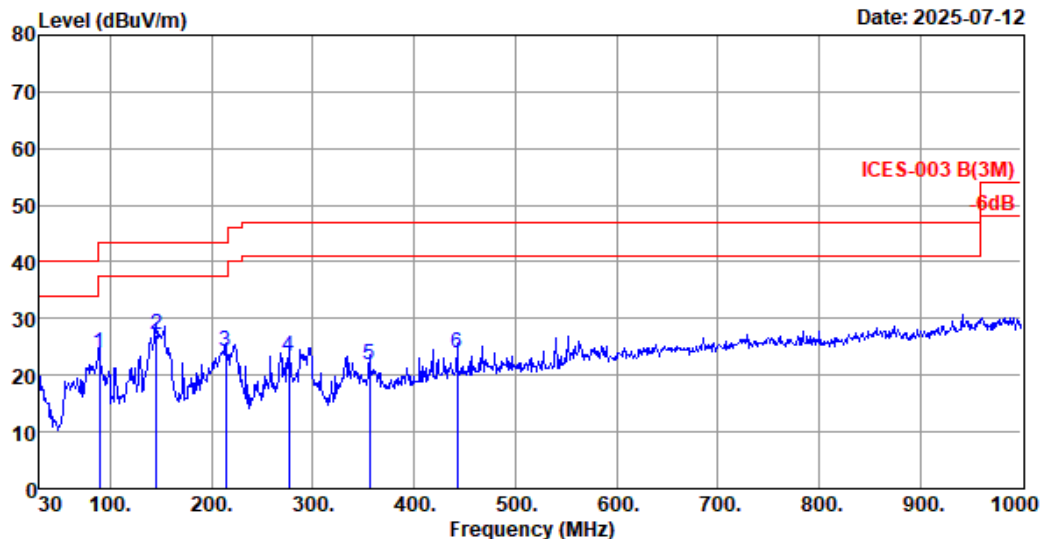
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Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 409

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

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 409
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : ICES-003 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	47.00	23.59	QP
5	355.92	14.72	2.85	4.26	21.83	47.00	25.17	QP
6	442.25	17.00	3.21	3.69	23.90	47.00	23.10	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.

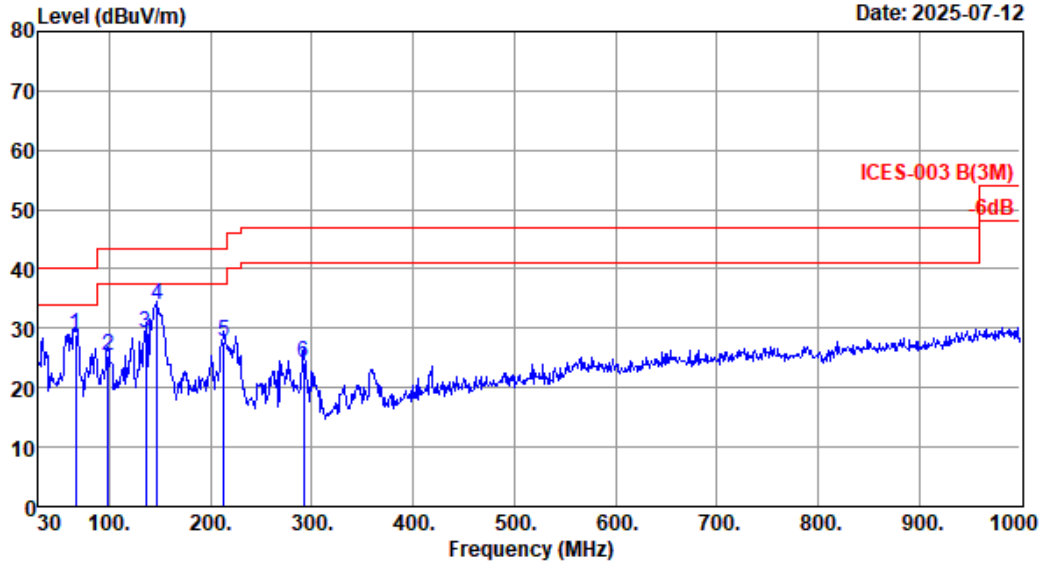
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Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 410

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

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 410
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : ICES-003 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	47.00	22.82	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.

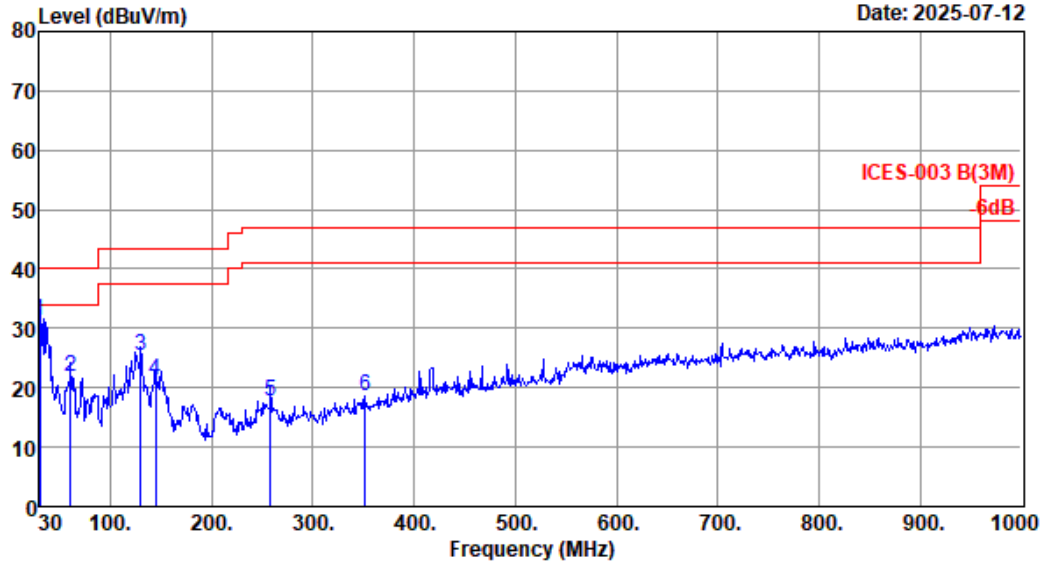
EST Technology

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

Data: 411

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

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 411
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : ICES-003 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	47.00	29.32	QP
6	352.04	14.70	2.83	1.11	18.64	47.00	28.36	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.

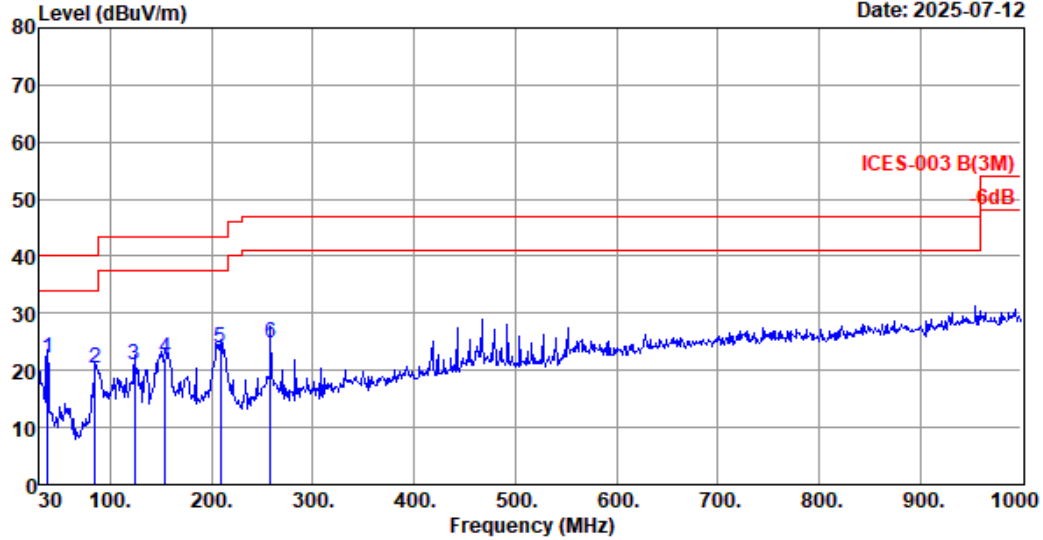
EST Technology

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

Data: 412

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

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 412
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : ICES-003 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	47.00	22.09	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.

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 : ICES-003:2020 Class B

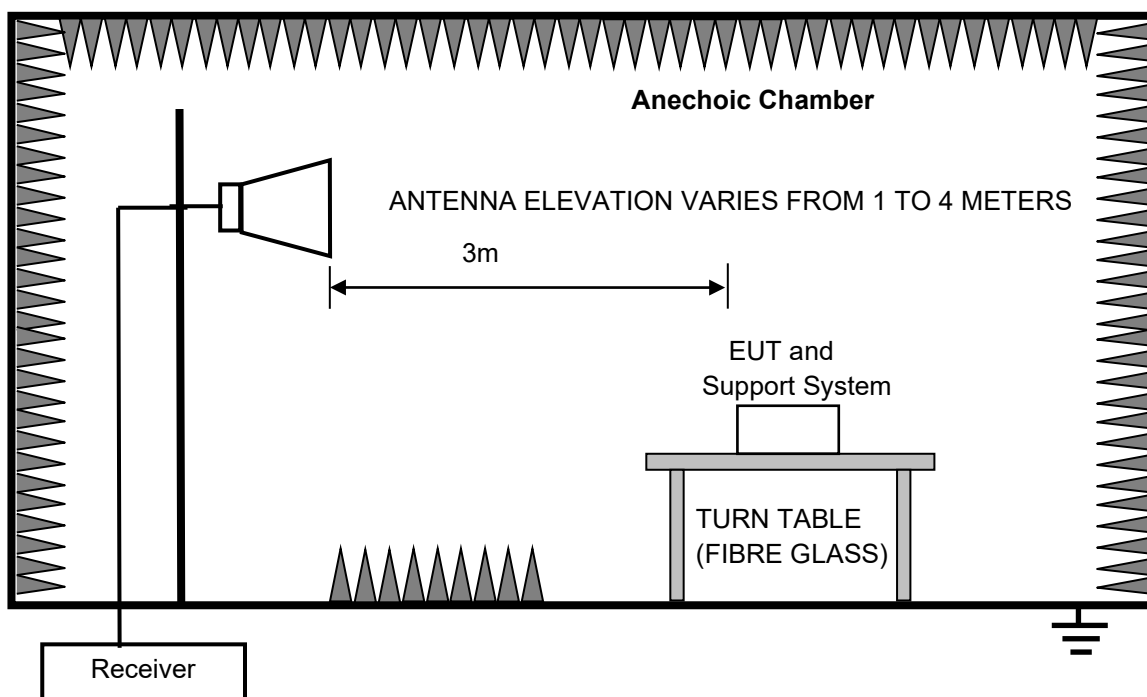
Test Setup

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

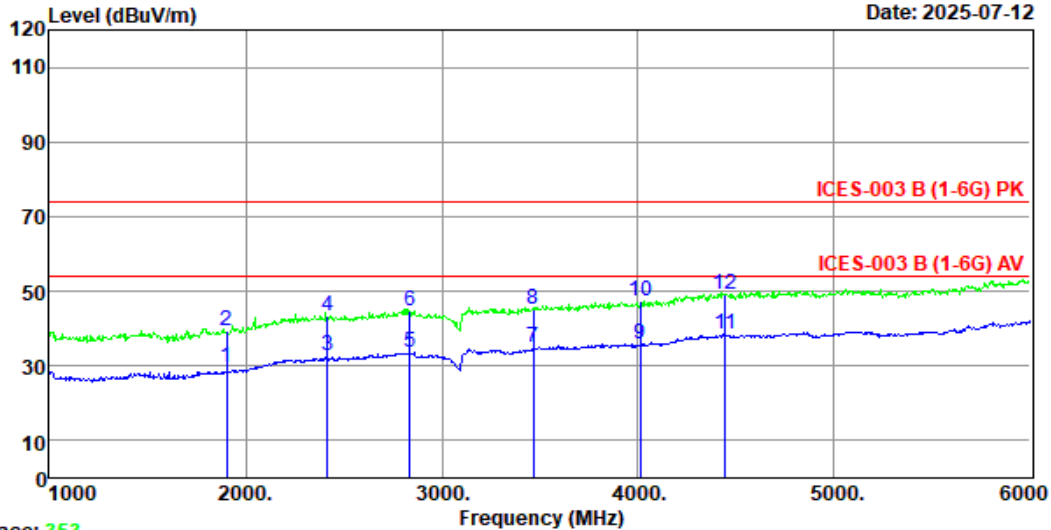
EST Technology

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

Data: 402

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. : 402
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : ICES-003 B (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.

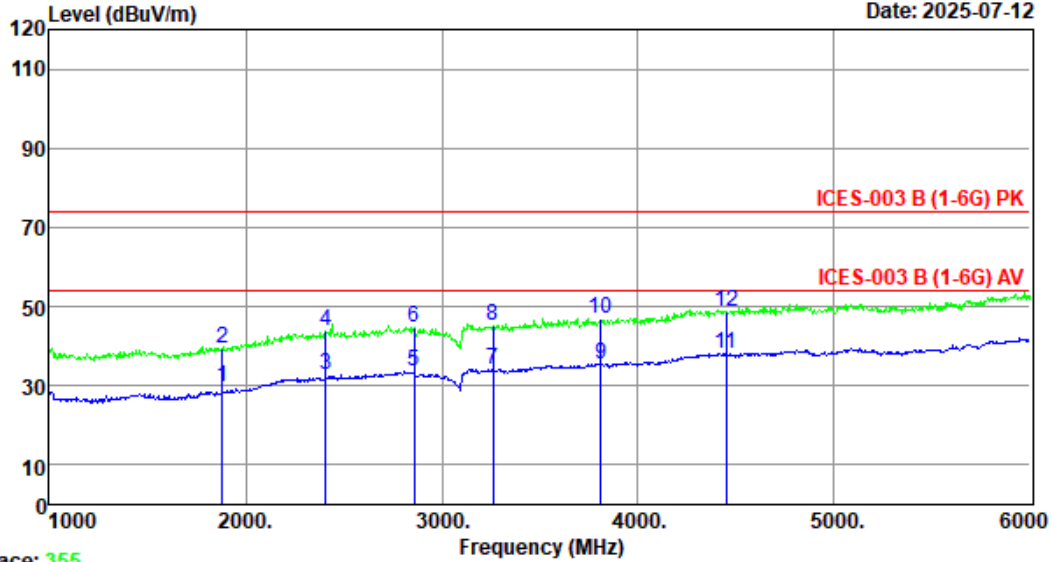
EST Technology

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

Data: 404

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

Date: 2025-07-12



Trace: 355

Site no. : 1# 966 Chamber Data no. : 404
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : ICES-003 B (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.

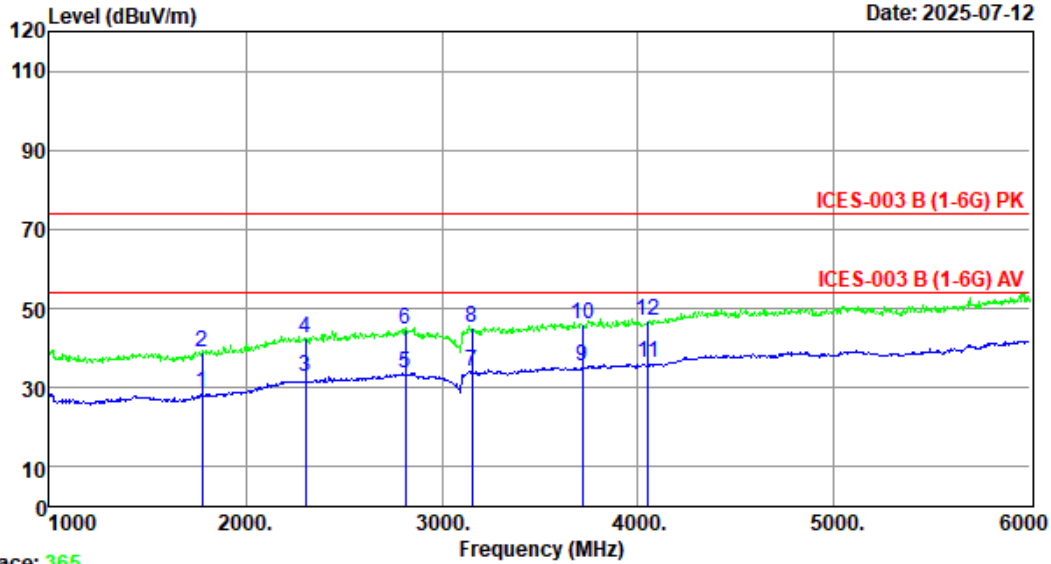
EST Technology

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

Data: 406

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

Date: 2025-07-12



Site no. : 1# 966 Chamber Data no. : 406
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : ICES-003 B (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.

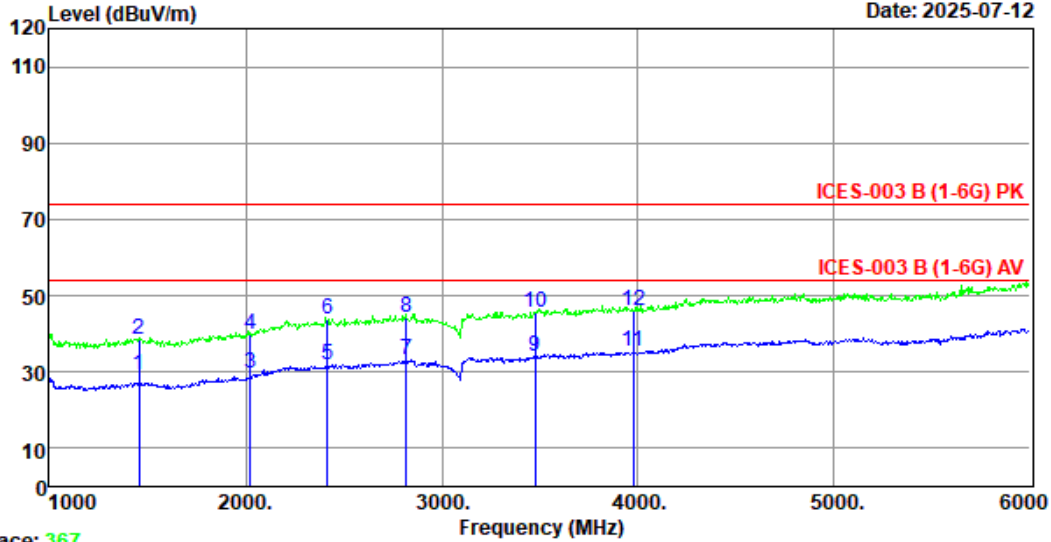
EST Technology

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

Data: 408

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

Date: 2025-07-12



Trace: 367

Site no. : 1# 966 Chamber Data no. : 408
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : ICES-003 B (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

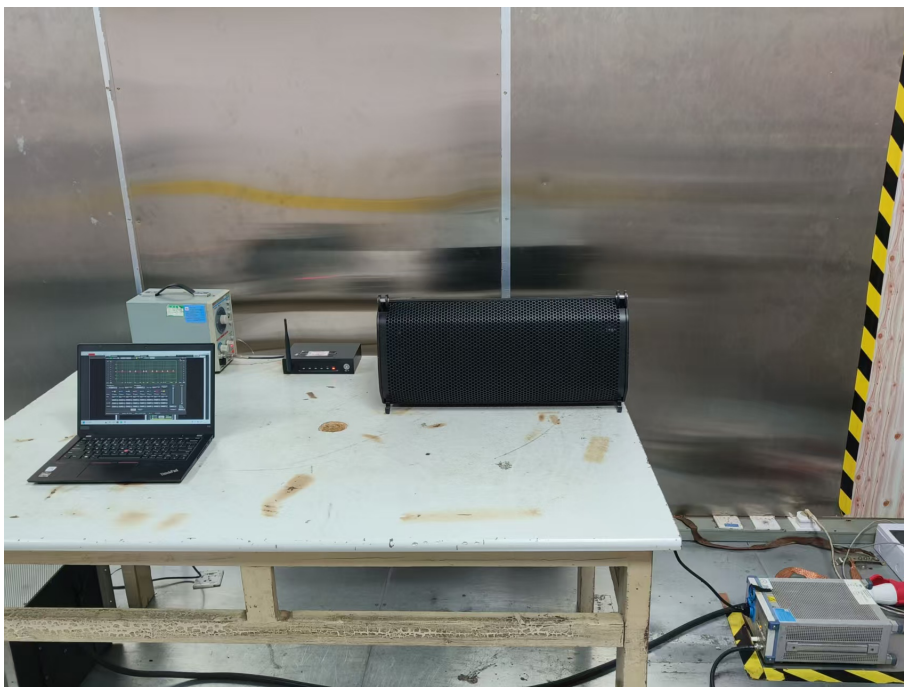
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

5. PHOTOGRAPHS OF TEST SET-UP

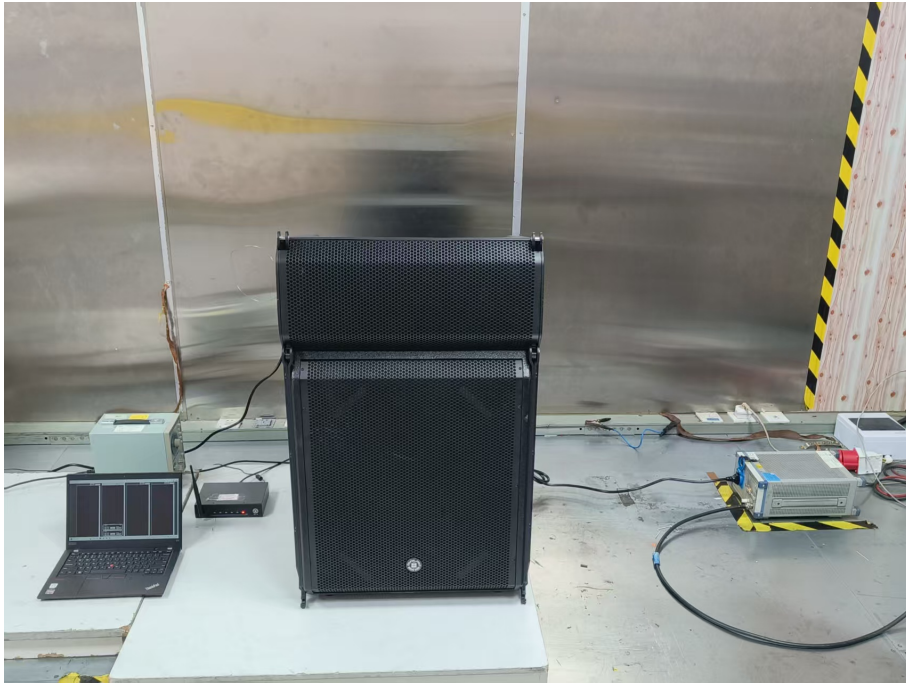
5.1. Set-up for Conducted Emission at the Mains Terminals Test



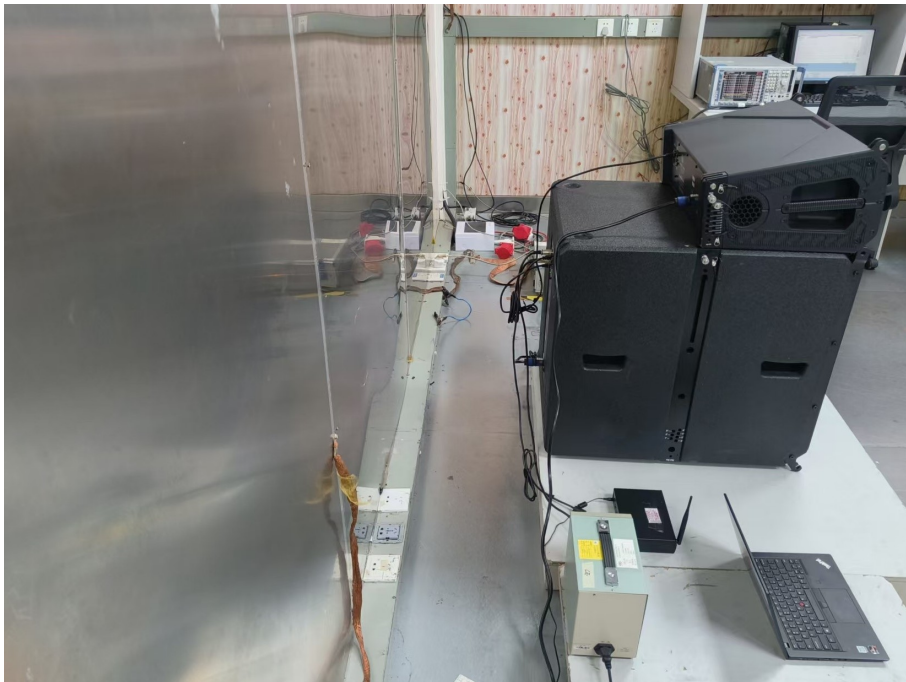
L-ARRAY 28HA



L-ARRAY 28HA

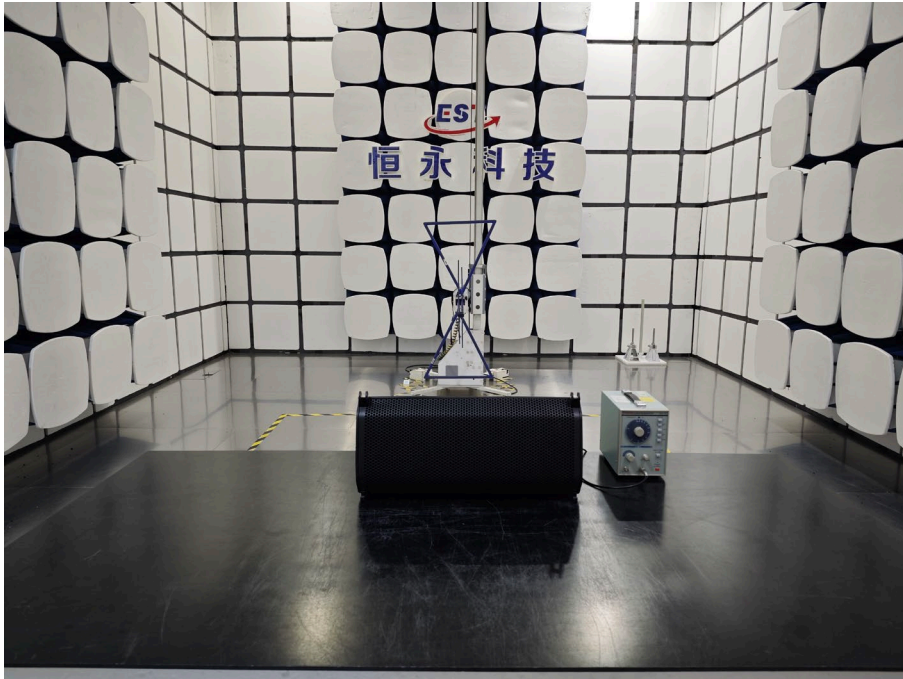


L-ARRAY 18SA

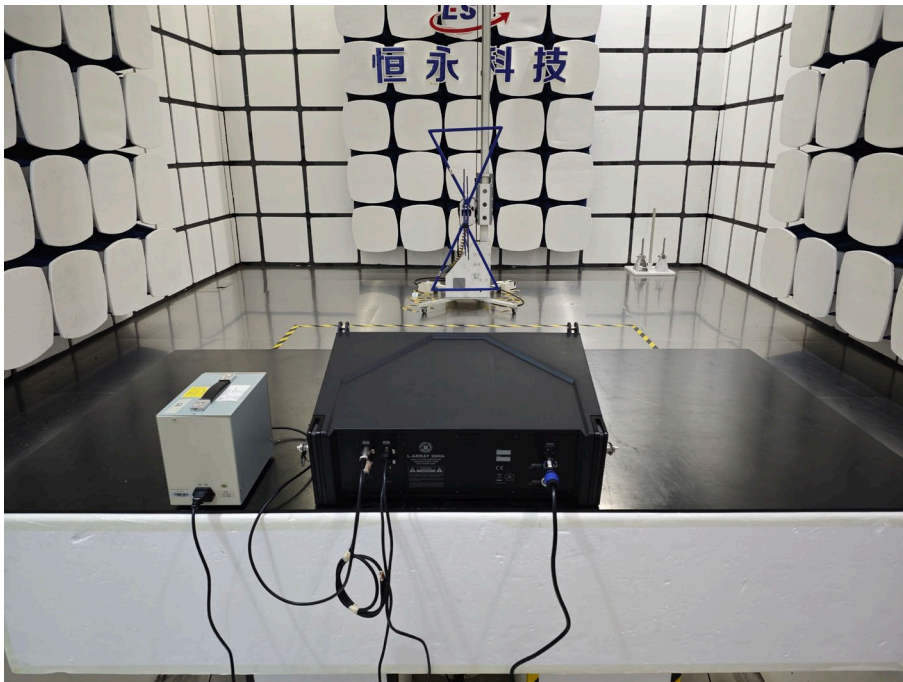


L-ARRAY 18SA

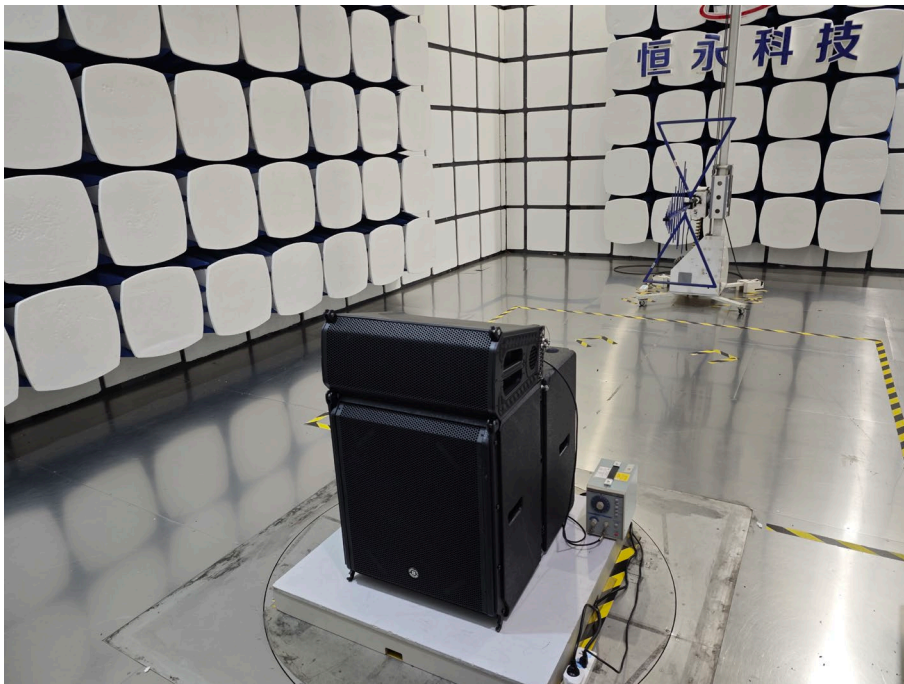
5.2.Set-up for Radiated Emission Test(30MHz-1000MHz)



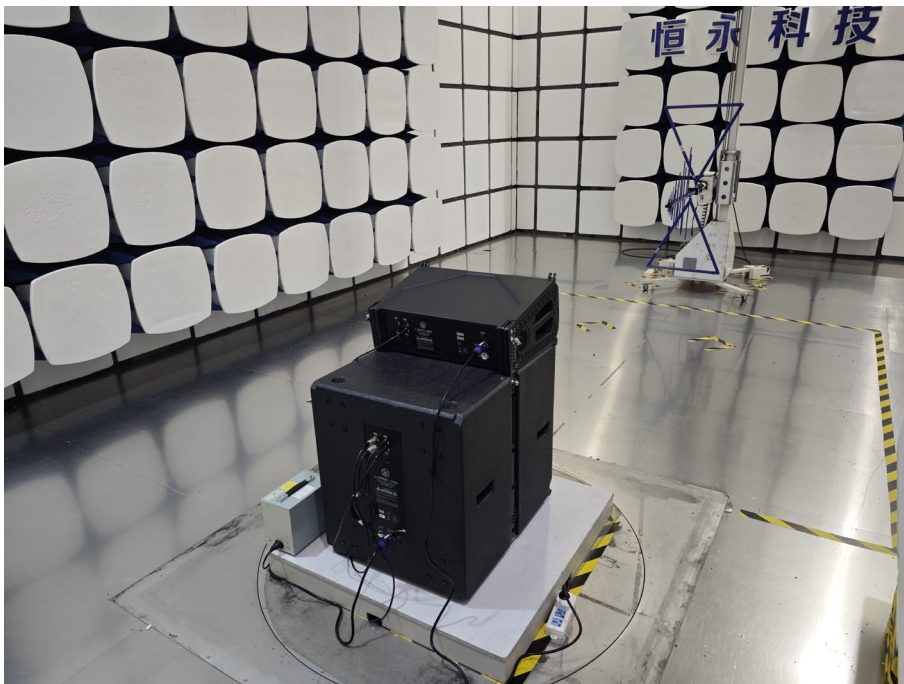
L-ARRAY 28HA



L-ARRAY 28HA

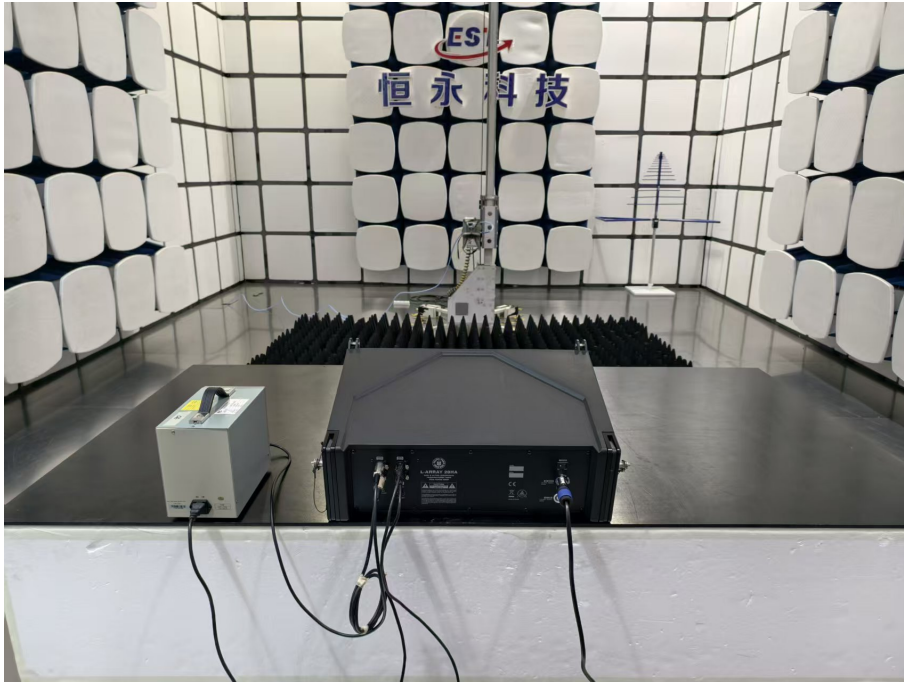


L-ARRAY 18SA

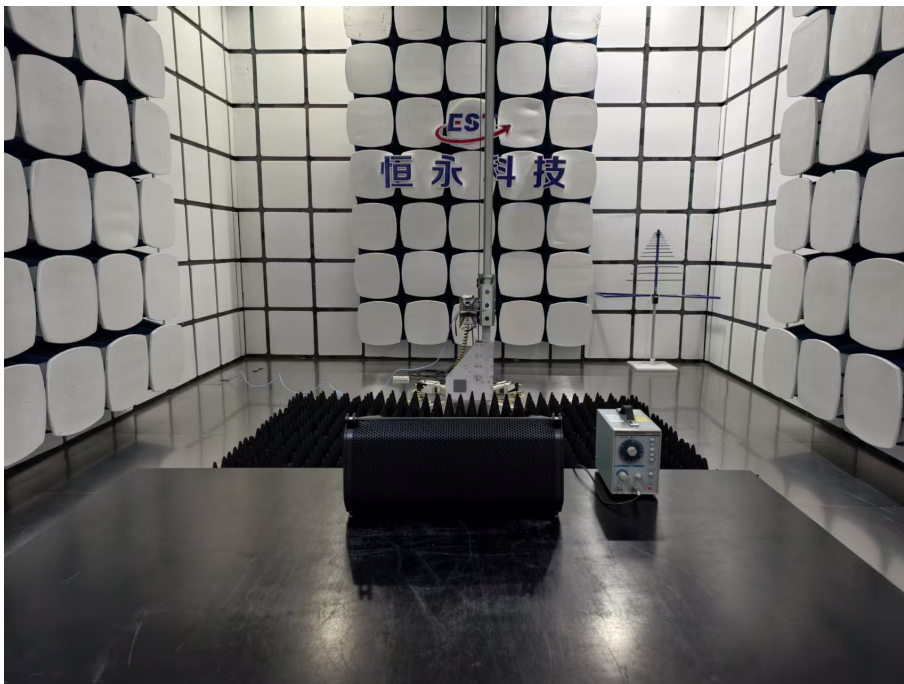


L-ARRAY 18SA

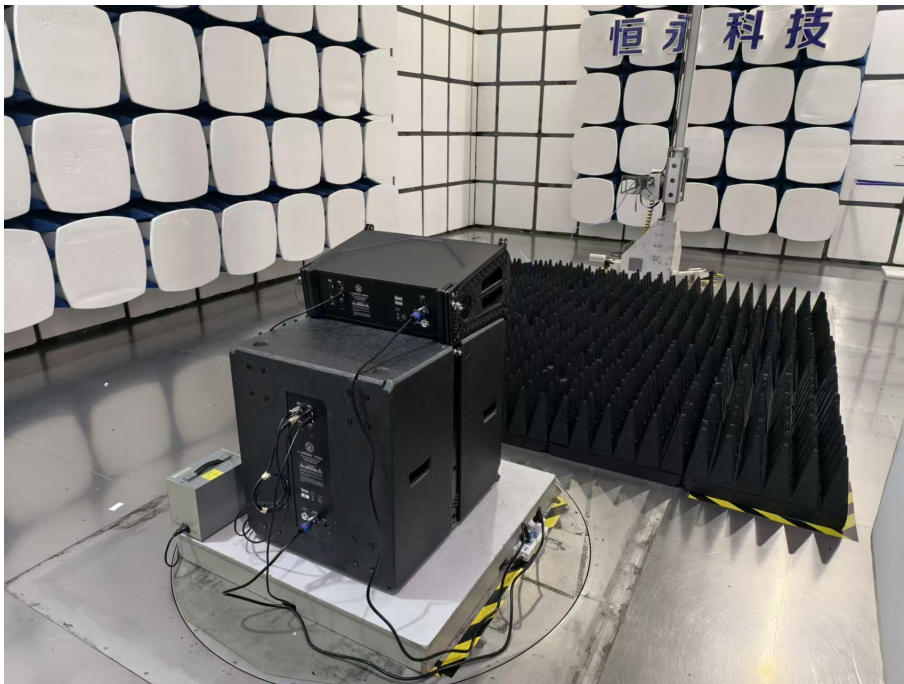
5.3.Set-up for Radiated Emission Test(above 1GHz)



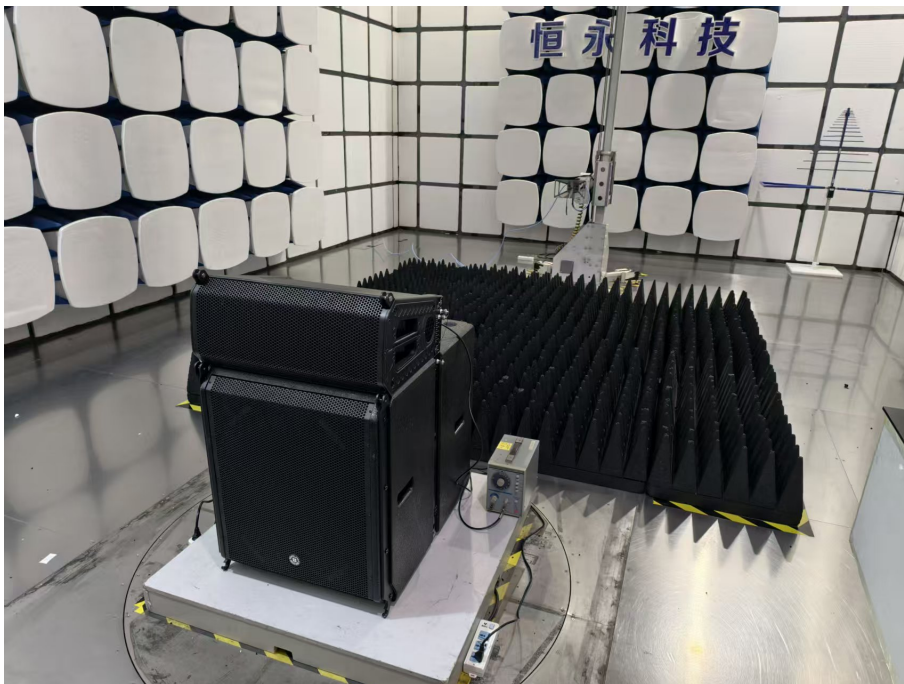
L-ARRAY 28HA



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

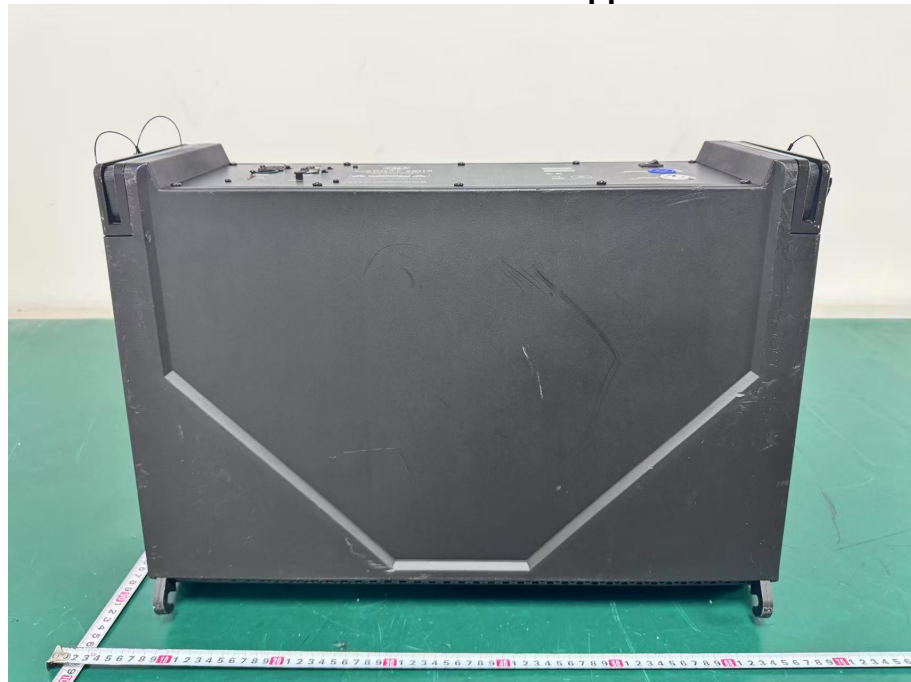


Figure 6
General Appearance of the EUT



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

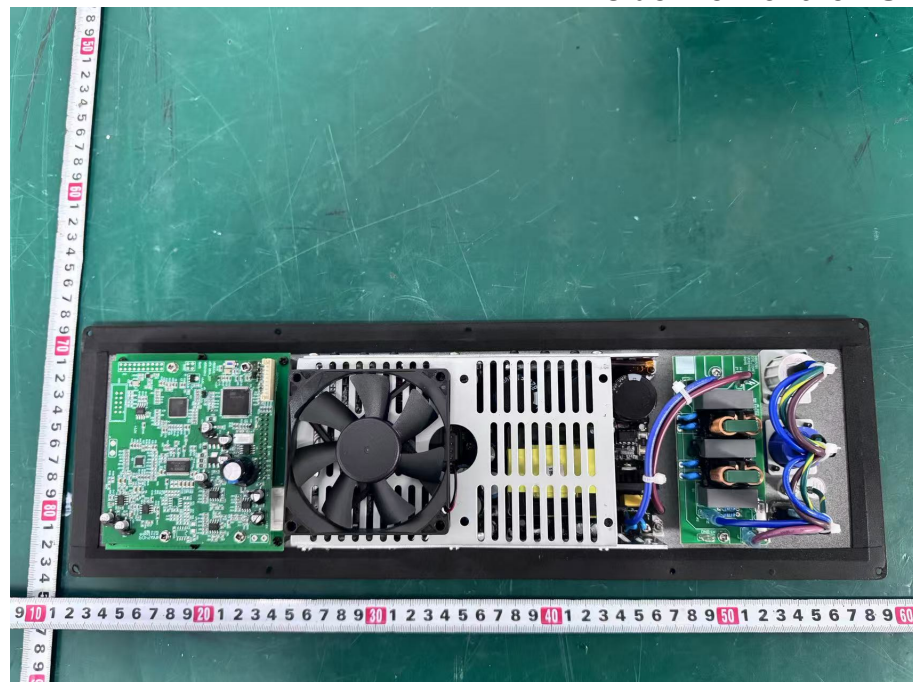


Figure 11
Inside View of the EUT

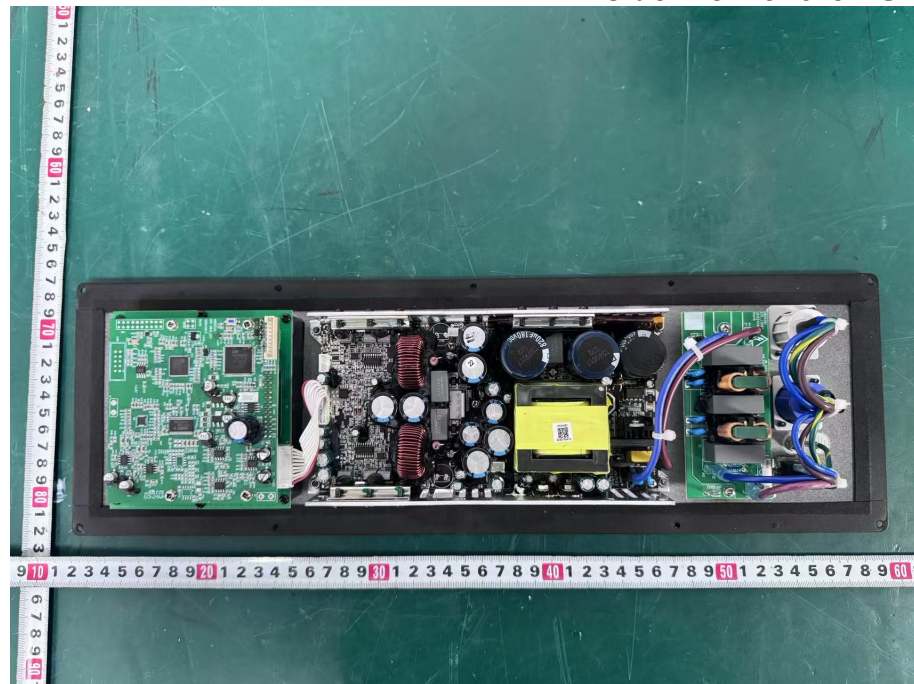


Figure 12
Inside View of the EUT

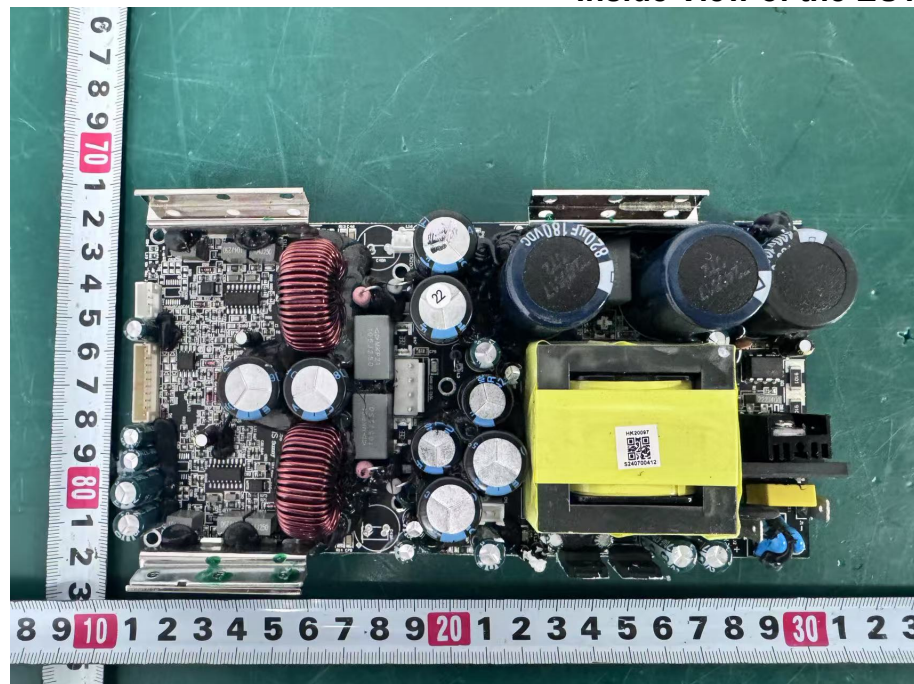


Figure 13
Inside View of the EUT

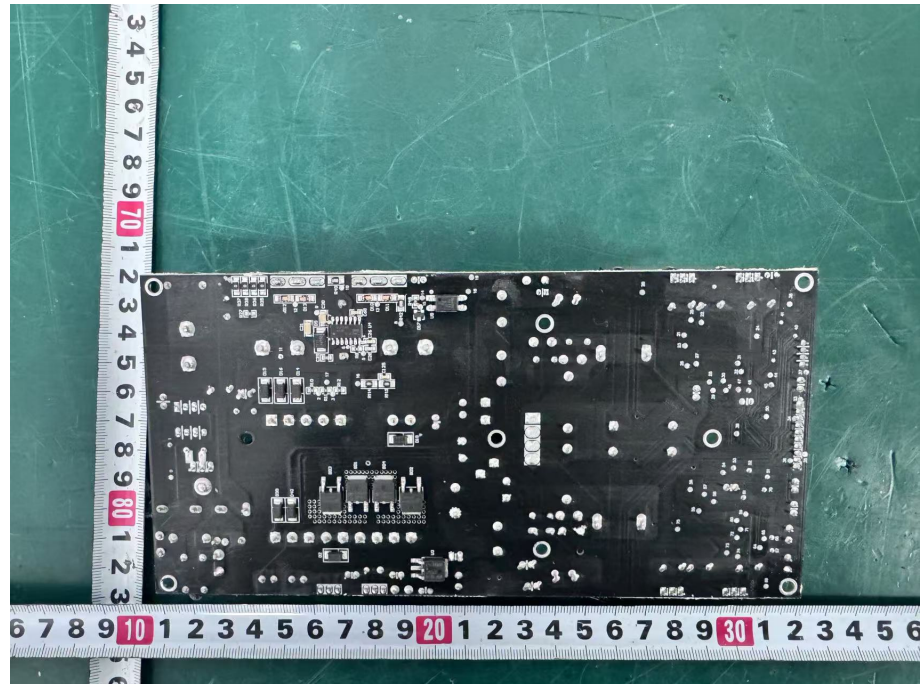


Figure 14
Inside View of the EUT

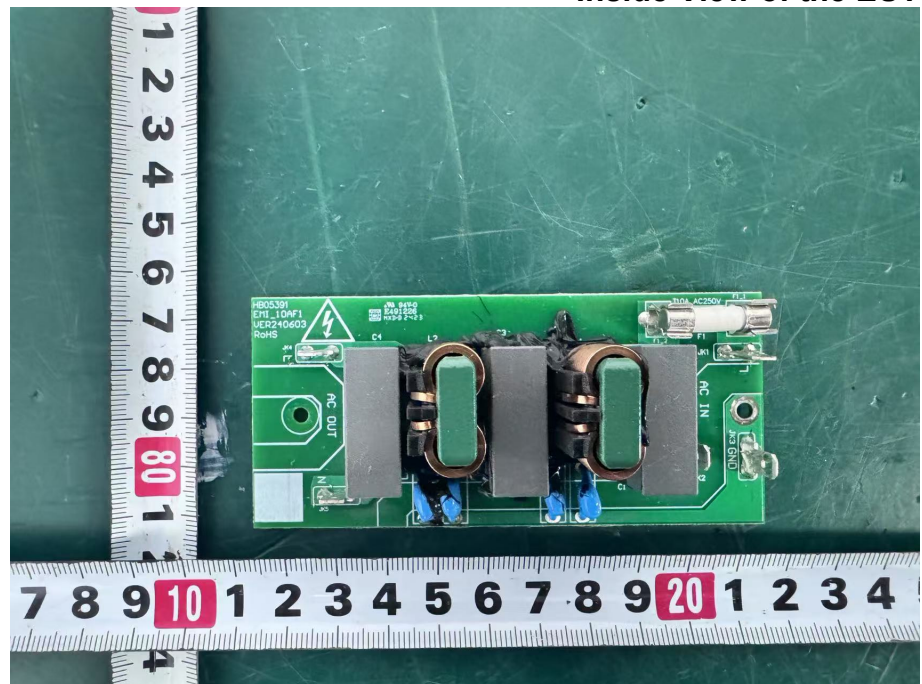


Figure 15
Inside View of the EUT

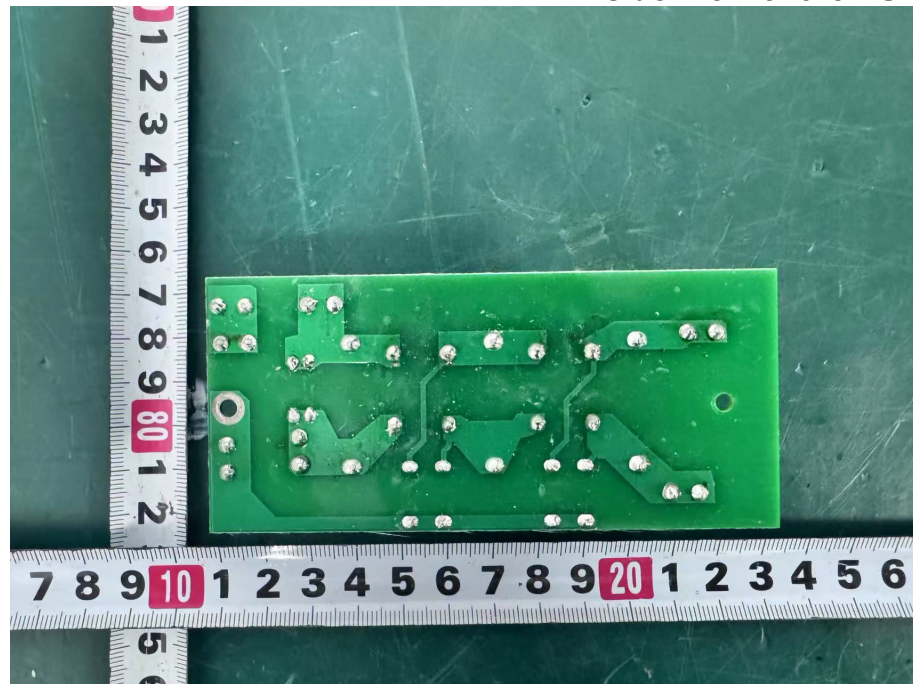


Figure 16
Inside View of the EUT

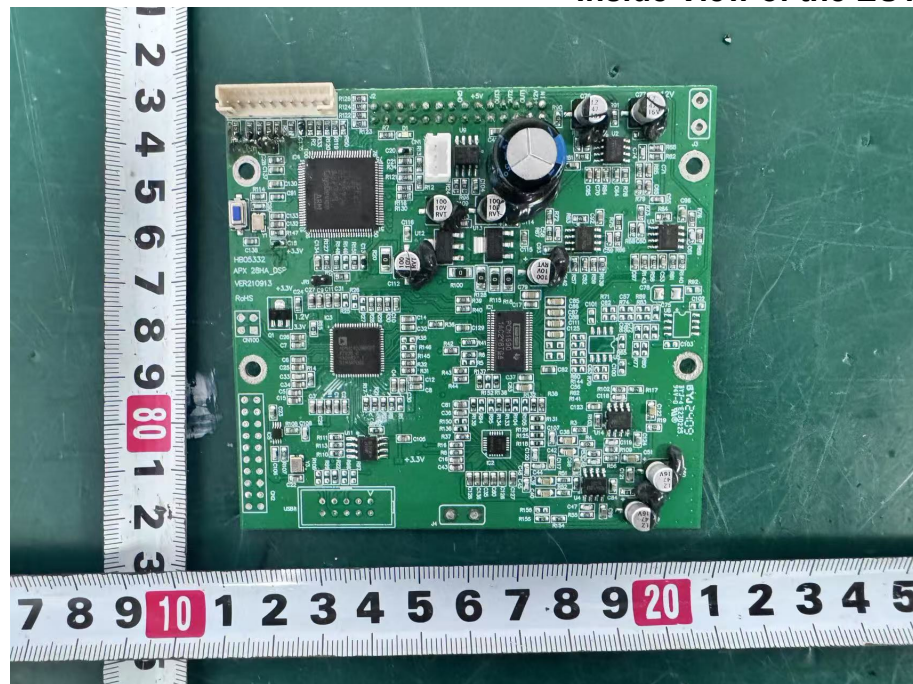


Figure 17
Inside View of the EUT

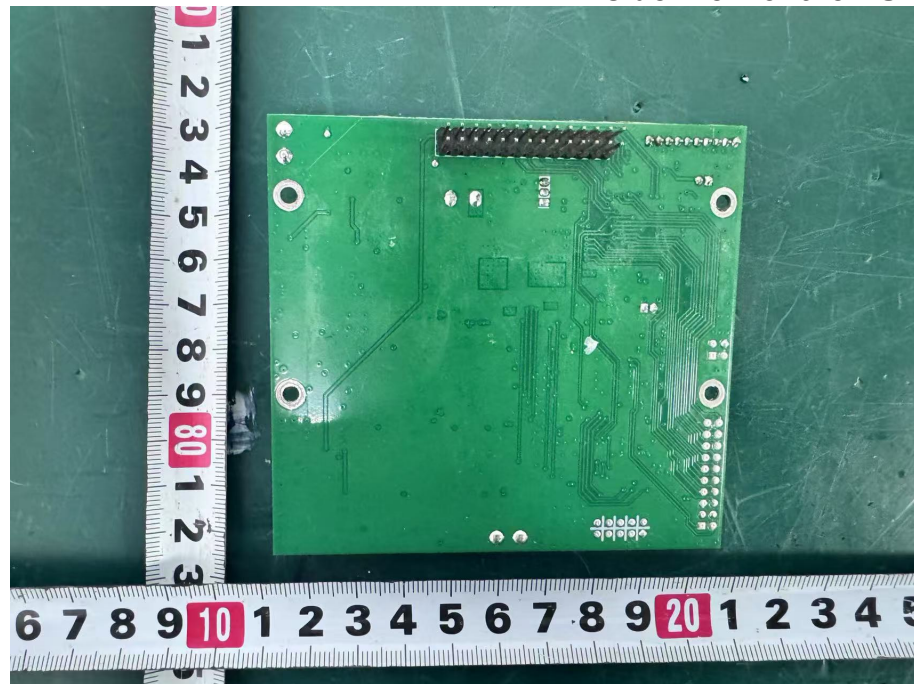


Figure 18
Inside View of the EUT

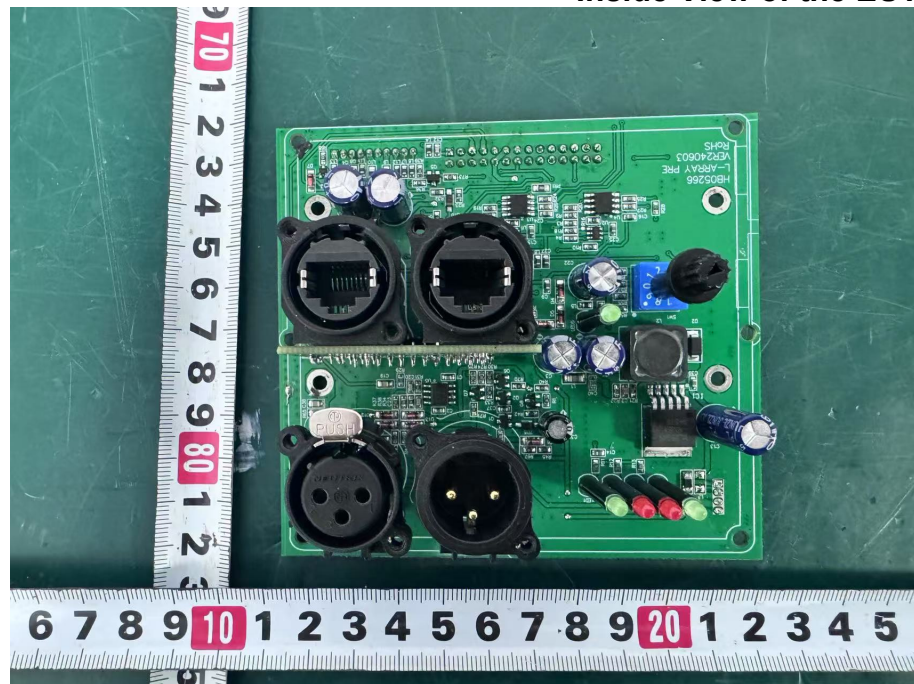
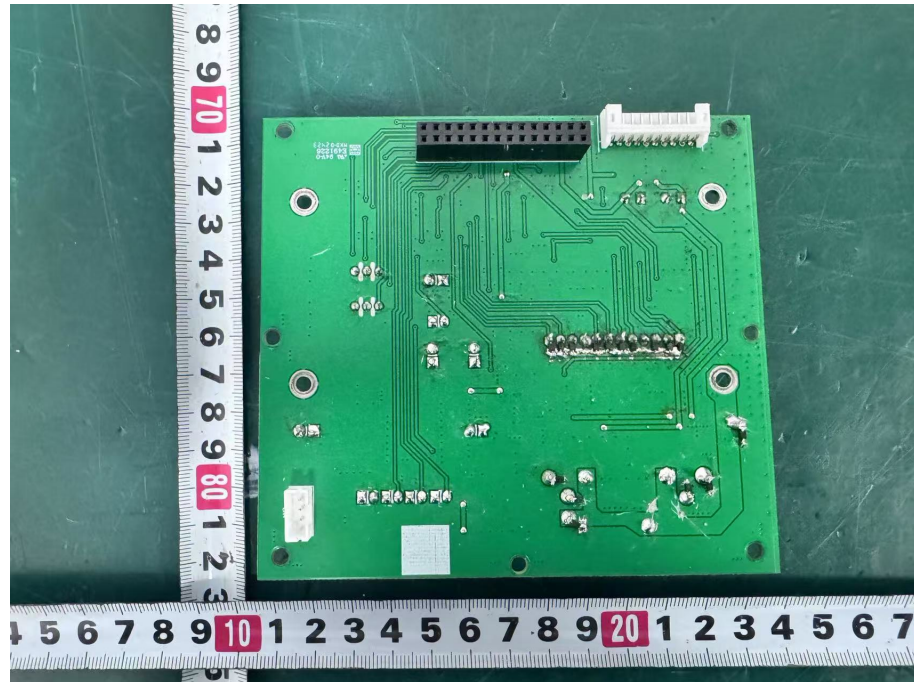


Figure 19
Inside View of the EUT



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

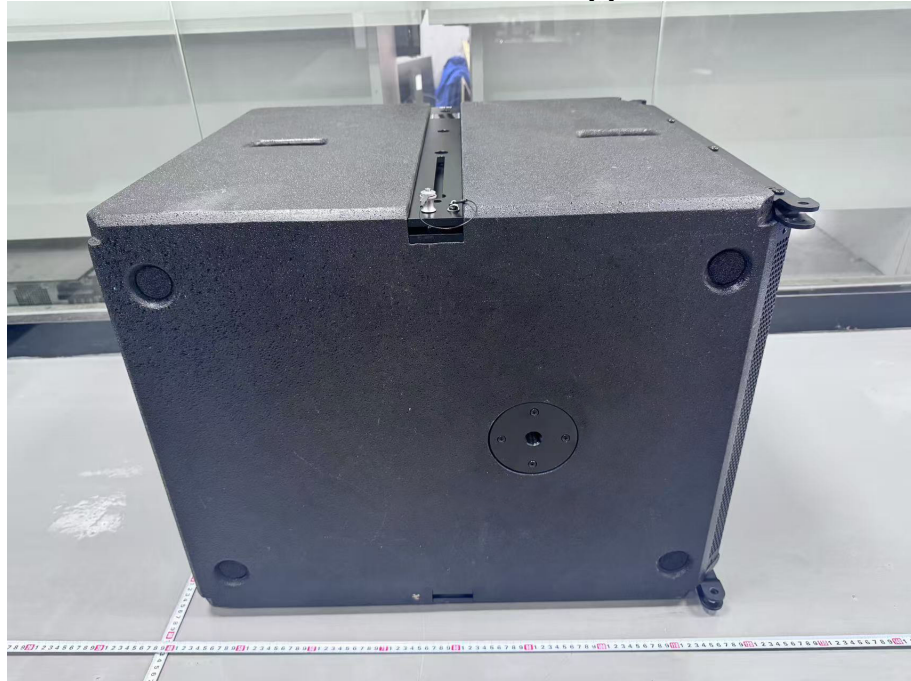


Figure 25
General Appearance of the EUT

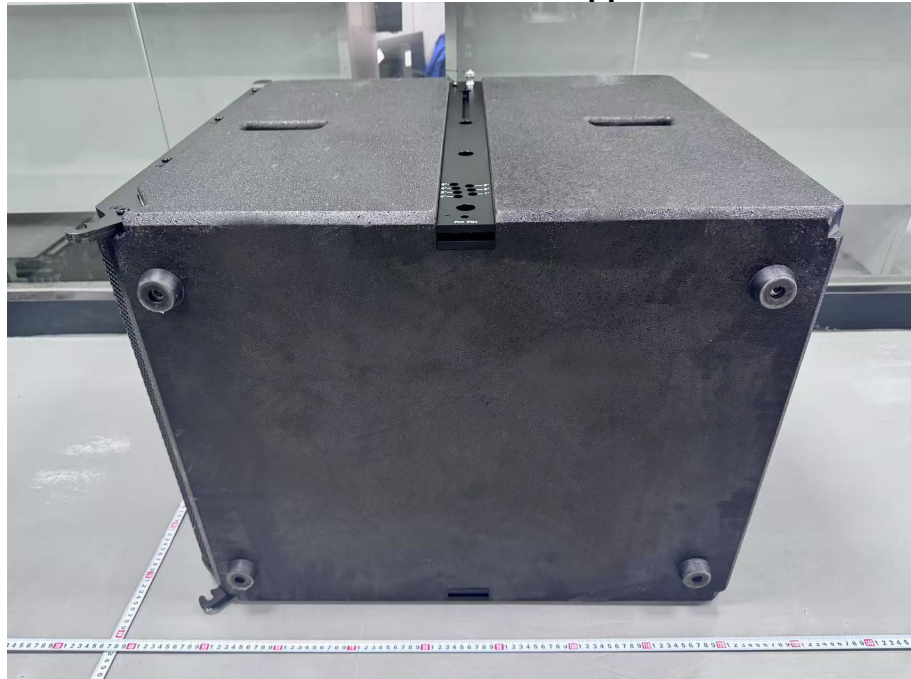


Figure 26
General Appearance of the EUT



Figure 27
General Appearance of the EUT



Figure 28
Inside View of the EUT



Figure 29
Inside View of the EUT

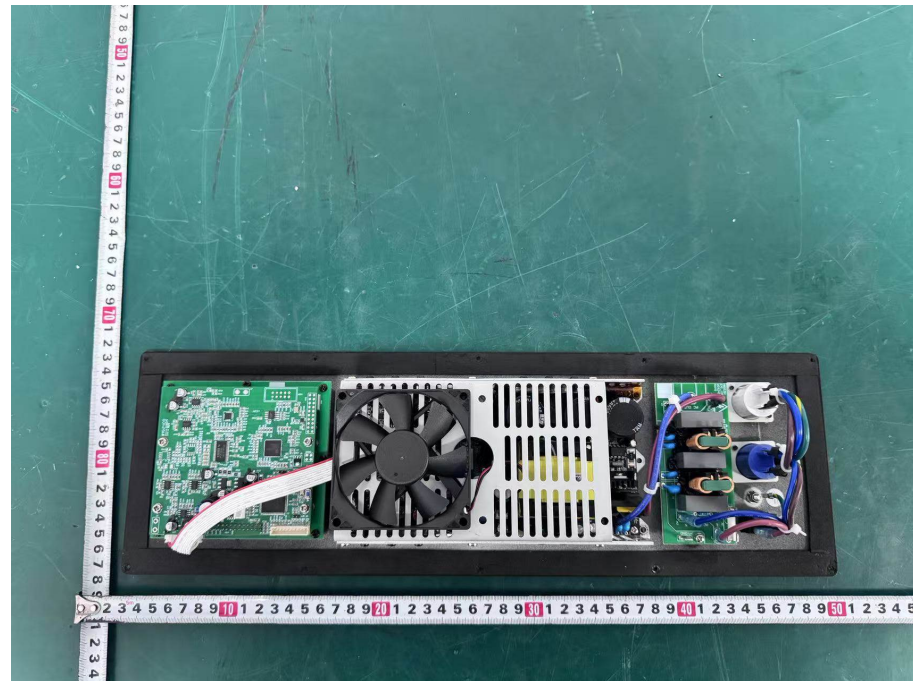


Figure 30
Inside View of the EUT

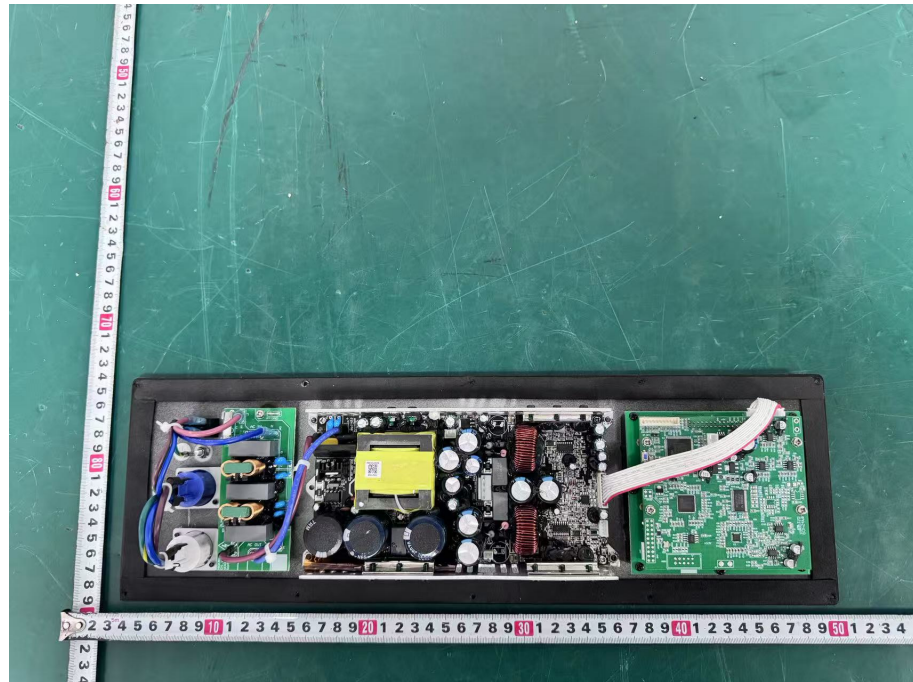


Figure 31
Inside View of the EUT

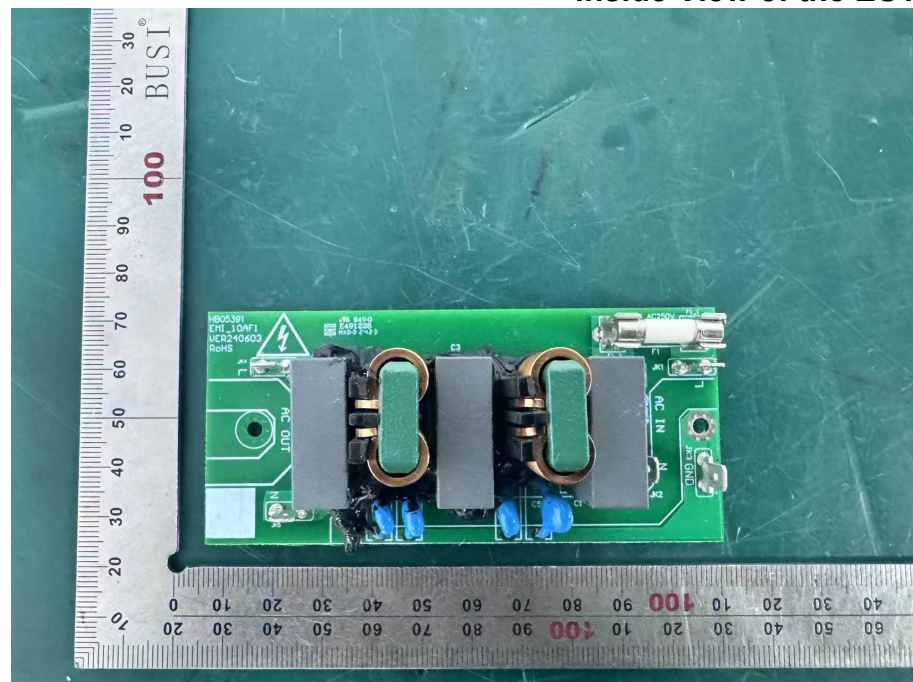


Figure 32
Inside View of the EUT

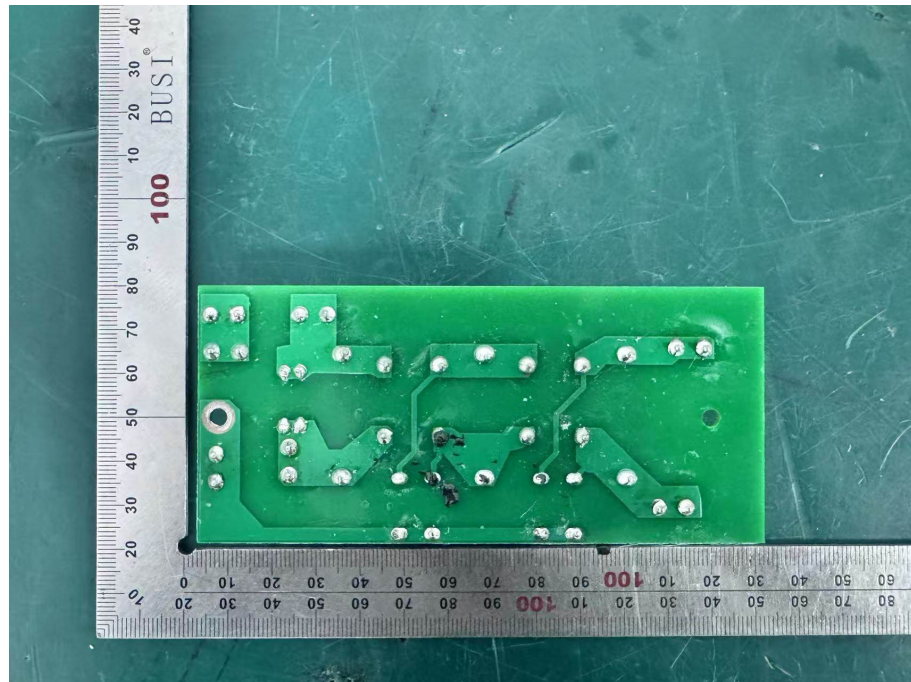


Figure 33
Inside View of the EUT

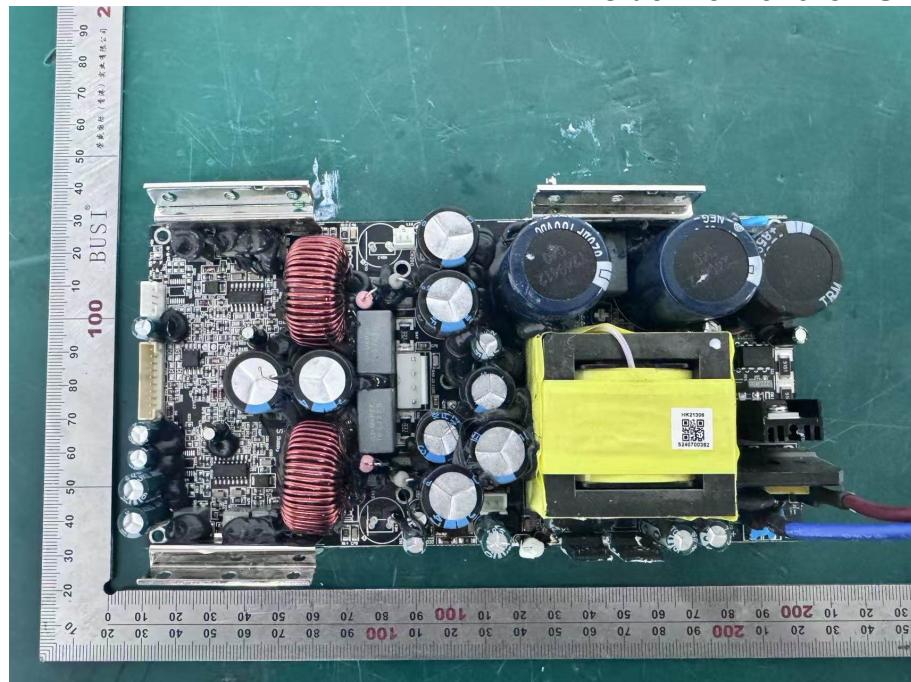


Figure 34
Inside View of the EUT

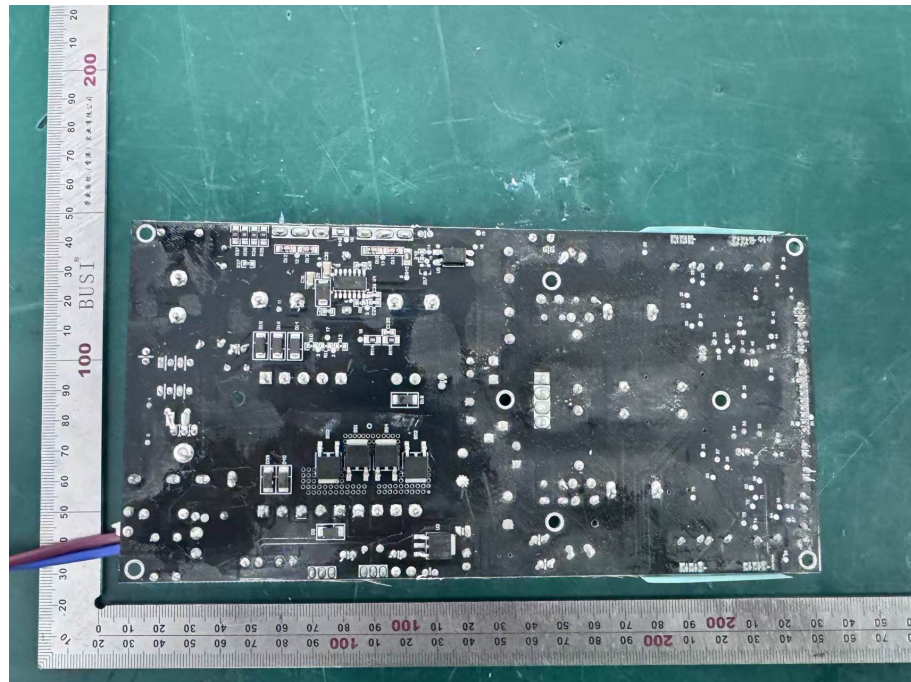


Figure 35
Inside View of the EUT

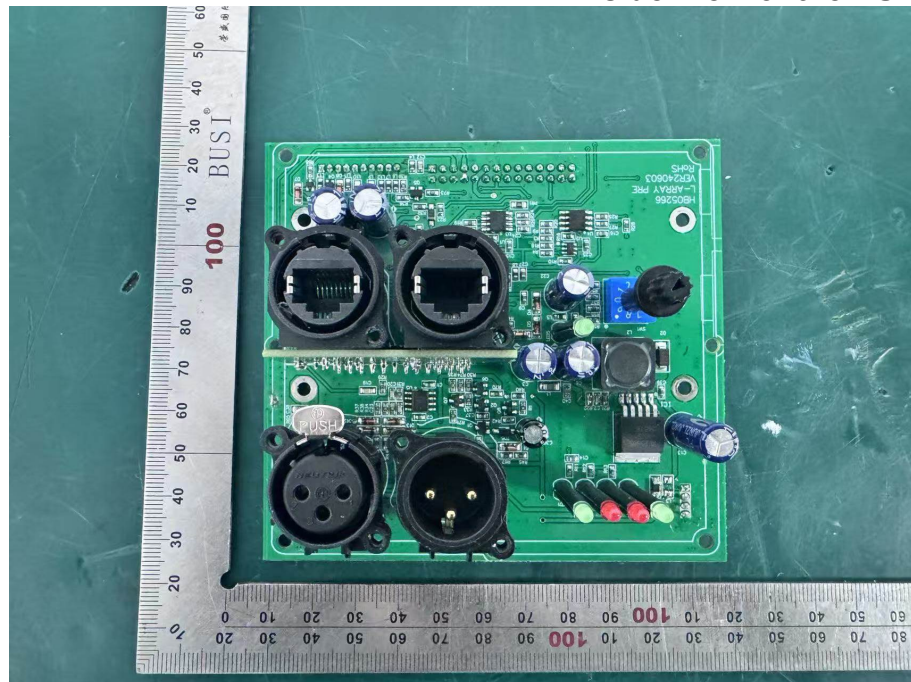


Figure 36
Inside View of the EUT

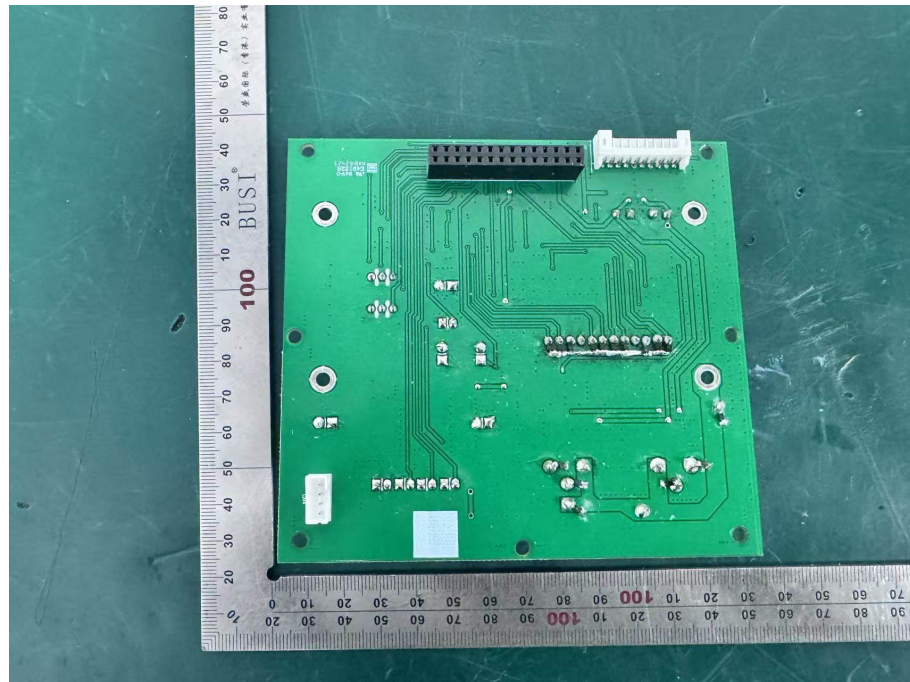


Figure 37
Inside View of the EUT

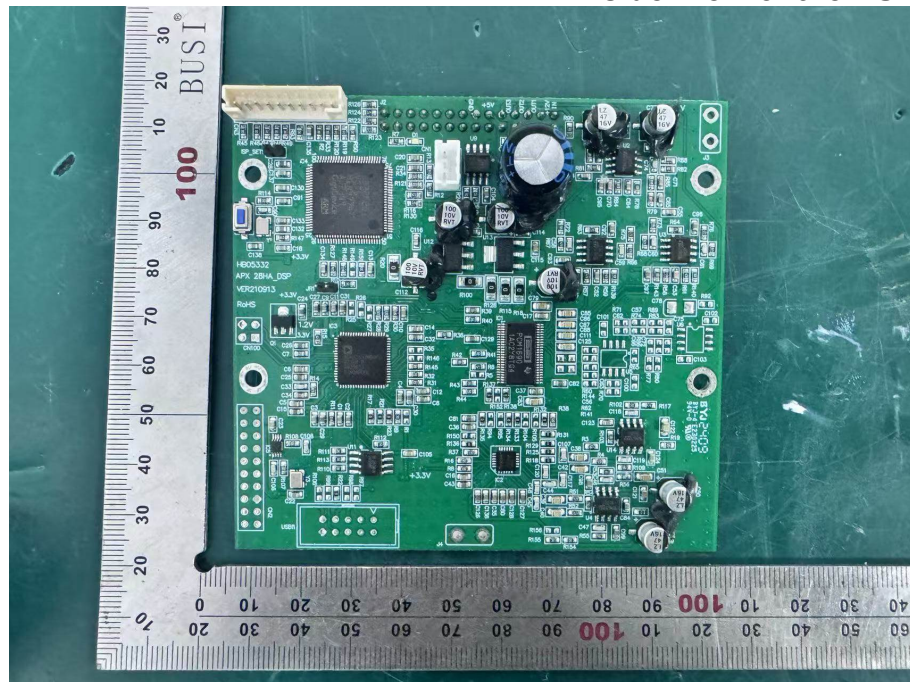
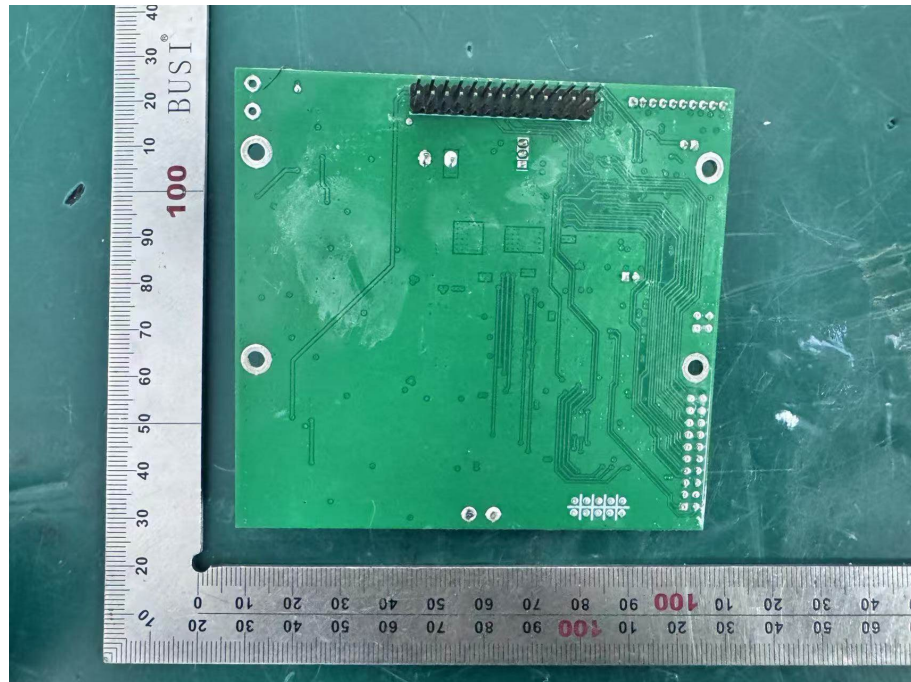


Figure 38
Inside View of the EUT



End of Test Report