

FCC SDoC TEST REPORT

For

Dongguan Jingheng Electron Co., Ltd.

Active Loudspeaker System

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,
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Report No. : ESTE-F2404037

Date of Report : Apr. 23, 2024

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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 Jinheng Electron Co., Ltd.		
Address:	No. 15, Shenle 1st Road, Hengli Town, Dongguan City, 523465 Guangdong, P.R. China		
E.U.T:	Active Loudspeaker System		
Model Number:	MegaSys 1, AXV15.12		
Trade Name:	SHOW, TOPP PRO	Serial No:	-----
Date of Receipt:	Apr. 10, 2024	Date of Test:	Apr. 16, 2024~Apr. 17, 2024
Test Specification:	FCC Part 15 Subpart B Class B:2023 ANSI C63.4-2014		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
		Issue Date: Apr. 23, 2024	
Prepared by:	Reviewed by:	Approved by:	
			
Lena Jin / 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	: Active Loudspeaker System
Model No.	: MegaSys 1
System Input Voltage	: AC 110-240V, 50/60Hz
Work Freq.	: 2.4GHz
Power	: 1200 W
AC Line	: Unshielded, Detachable 2.0m
INPUT Line	: Unshielded, Detachable 1.2m
OUTPUT Line	: Unshielded, Detachable 1.2m

1.3. Difference between Model Numbers

Note: They are identical except model name.

1.4. Independent Operation Modes

The basic operation modes are:

1.4.1. INPUT

1.4.2. Bluetooth Mode

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 13.15dB at 7.29MHz	
Radiated Emission Test (30MHz-1000MHz)	FCC Part 15:2023	Class B	PASS
		Minimum passing margin is 7.07dB at 282.20MHz	
Radiated Emission Test (above 1GHz)	FCC Part 15:2023	Class B	PASS
		Minimum passing margin is 11.32dB at 5800MHz	

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 (2# conduction)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI3	EST-E071	Jun. 12, 2023	Jun. 11, 2024
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E048	Jun. 12, 2023	Jun. 11, 2024
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	Jun. 12, 2023	Jun. 11, 2024
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. 12, 2023	Jun. 11, 2024
Bilog Antenna	Teseq	CBL 6111D	EST-E034	Jun. 12, 2023	Jun. 11, 2024
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

2.3.3.For radiated emission test (above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	Jun. 12, 2023	Jun. 11, 2024
Horn Antenna	SCHWARZBECK	BBHA 9120 D	EST-E031	Jun. 12, 2023	Jun. 11, 2024
Signal Amplifier	SCHWARZBECK	BBV9718	EST-E032	Jun. 12, 2023	Jun. 11, 2024
Horn Antenna (18-40GHz)	Com-Power	AHA-840	EST-E132	Jun. 12, 2023	Jun. 11, 2024
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	Jun. 12, 2023	Jun. 11, 2024
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

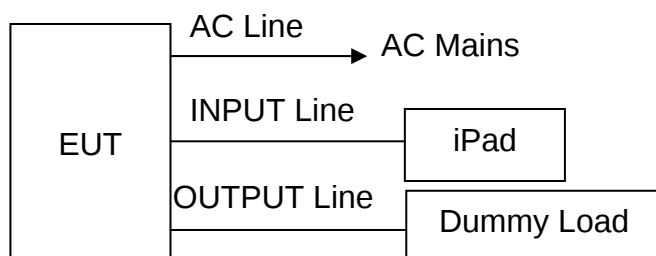
3.1. Principle of Configuration Selection

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: Active Loudspeaker System)

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.iPad

M / N	:	A1893
S / N	:	DMPY3KL5JF8K
Manufacturer	:	Apple

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 : 2# Conduction Shielded Room
Limits : FCC Part 15:2023 Class B

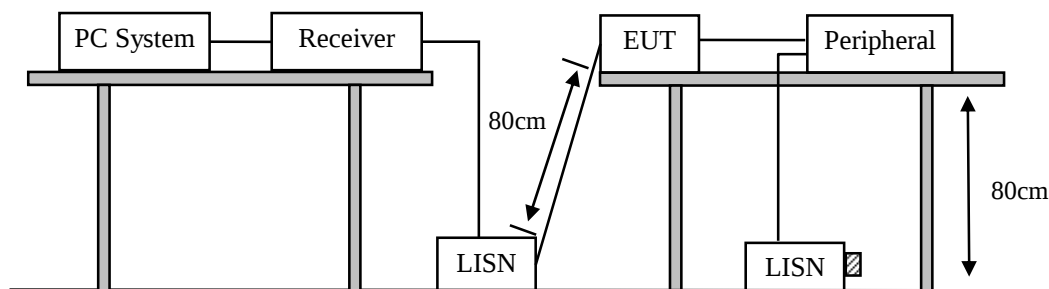
Test Setup

Date of test : Apr. 16, 2024
Model No. : MegaSys 1
Input Voltage : AC 240V/50Hz, AC 120V/60Hz
Operation Mode : INPUT, Bluetooth Mode

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: $\pm 3.42\text{dB}$ at a level of confidence of 95%.(2#CE)

Test Data

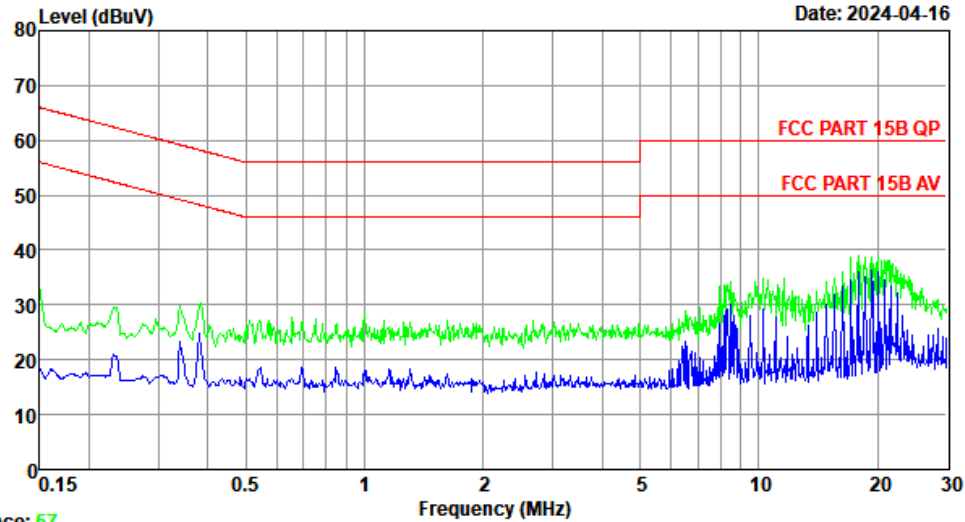
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Data: 58

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16

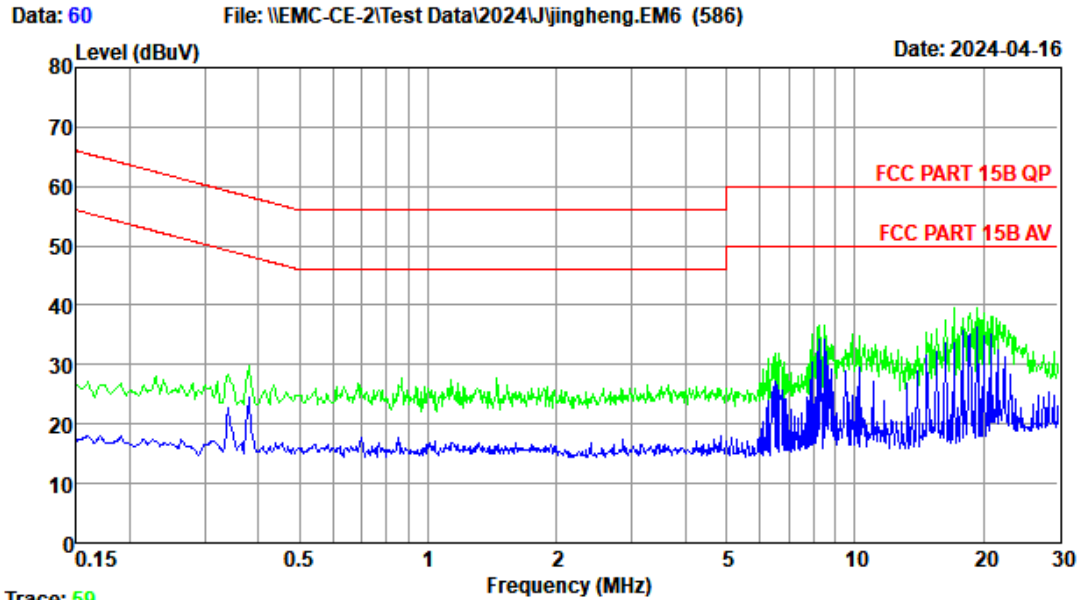


Trace: 57

Site no : 2#CE Shield Room Data no. : 58
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

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Trace: 59
Site no : 2#CE Shield Room Data no. : 60
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

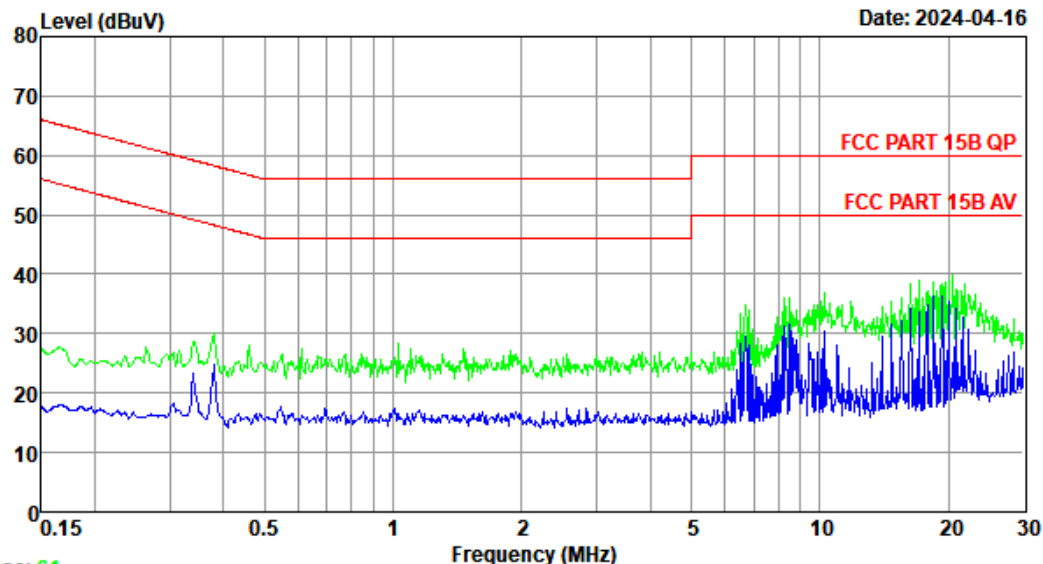
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Data: 62

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Trace: 61

Site no : 2#CE Shield Room Data no. : 62
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : INPUT

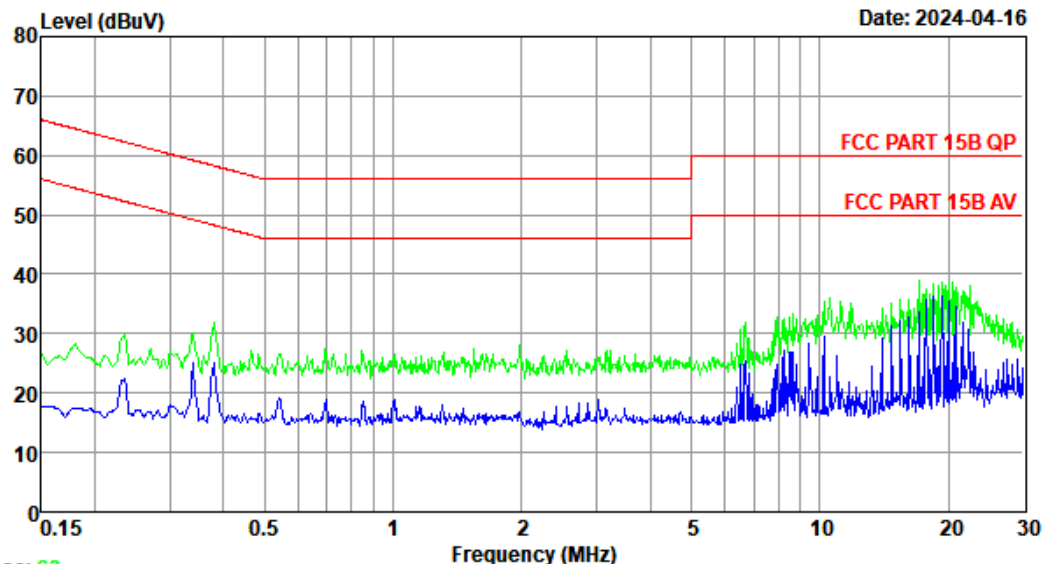
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Data: 64

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Trace: 63

Site no : 2#CE Shield Room Data no. : 64
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : INPUT

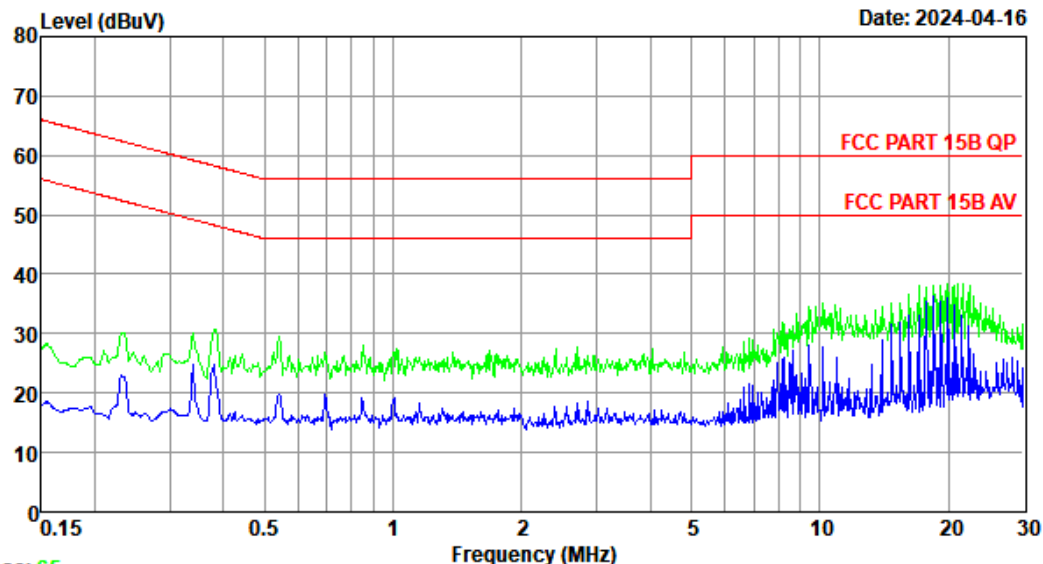
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Data: 66

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Trace: 65

Site no : 2#CE Shield Room Data no. : 66
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

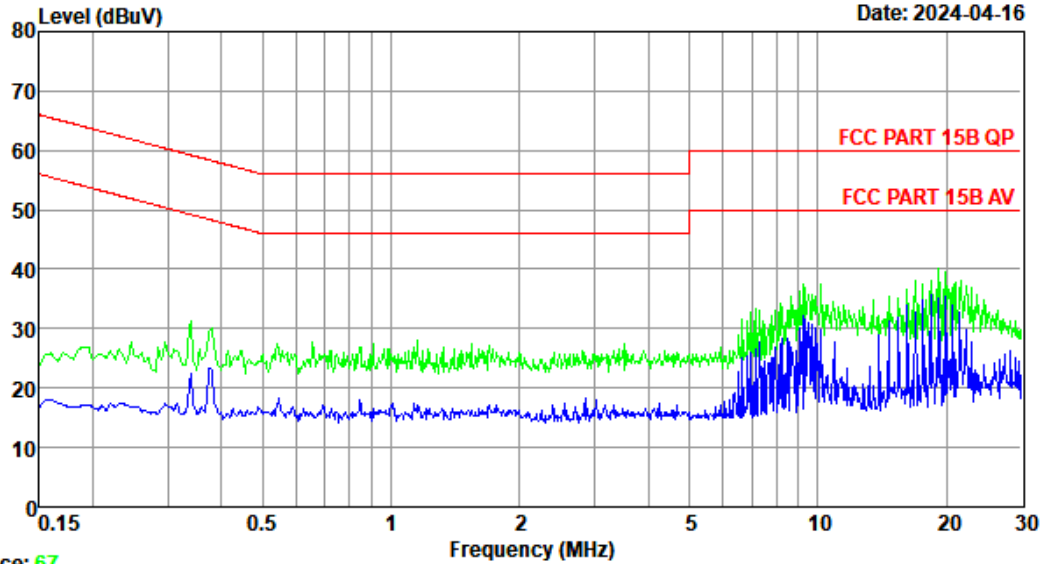
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Data: 68

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Trace: 67

Site no : 2#CE Shield Room Data no. : 68
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

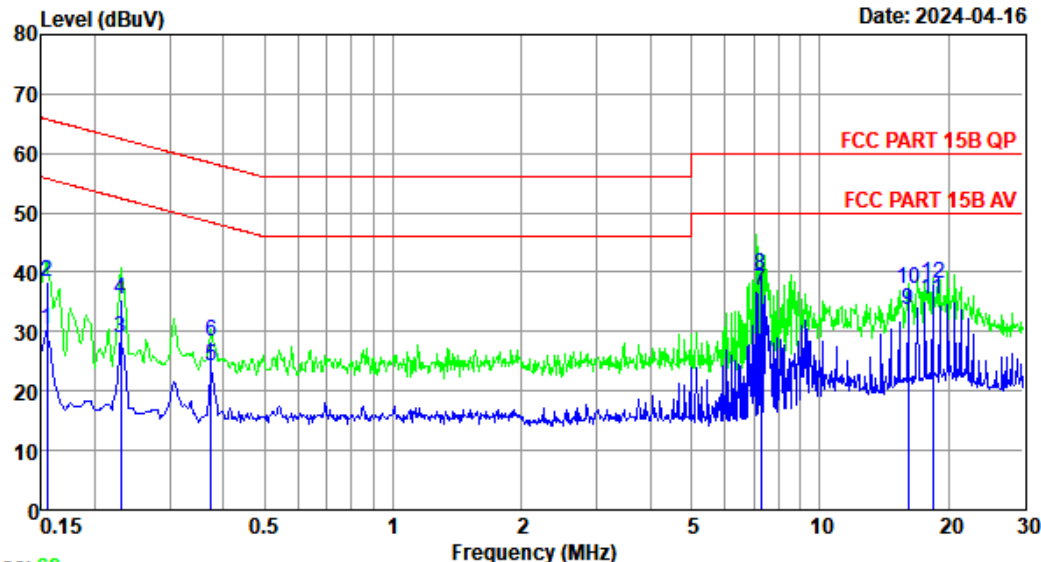
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Data: 70

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Trace: 69

Site no : 2#CE Shield Room Data no. : 70
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	10.12	9.89	10.53	30.54	55.74	25.20	Average
2	0.15	10.12	9.89	18.40	38.41	65.74	27.33	QP
3	0.23	10.16	9.94	8.91	29.01	52.44	23.43	Average
4	0.23	10.16	9.94	15.20	35.30	62.44	27.14	QP
5	0.38	10.12	9.89	4.13	24.14	48.39	24.25	Average
6	0.38	10.12	9.89	8.20	28.21	58.39	30.18	QP
7	7.29	10.14	9.99	16.72	36.85	50.00	13.15	Average
8	7.29	10.14	9.99	19.50	39.63	60.00	20.37	QP
9	16.14	10.51	10.11	12.95	33.57	50.00	16.43	Average
10	16.14	10.51	10.11	16.50	37.12	60.00	22.88	QP
11	18.43	10.63	10.22	14.45	35.30	50.00	14.70	Average
12	18.43	10.63	10.22	17.20	38.05	60.00	21.95	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.

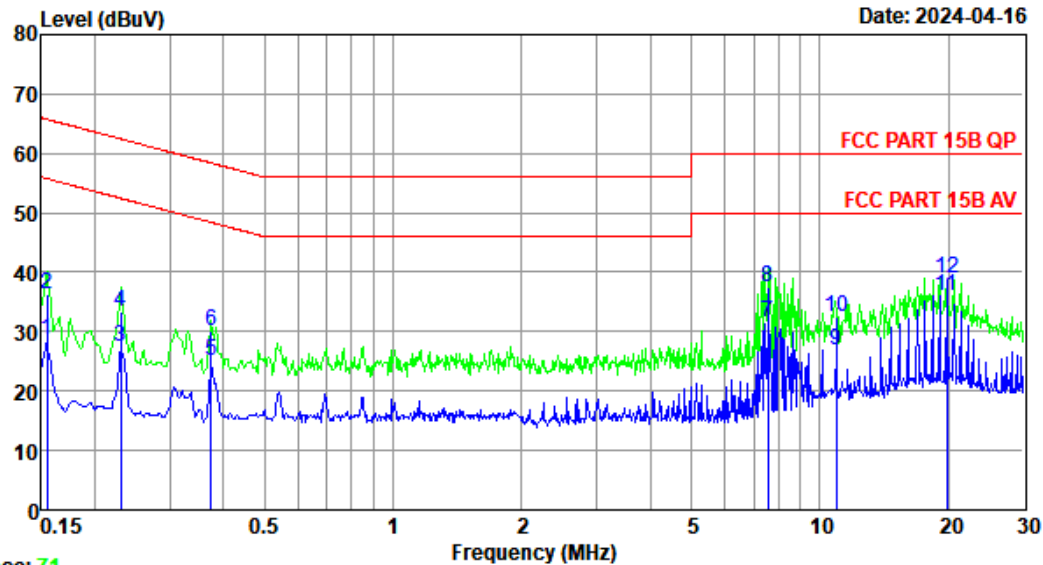
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Data: 72

File: \\EMC-CE-2\Test Data\2024\Jjingheng.EM6 (586)

Date: 2024-04-16



Site no : 2#CE Shield Room Data no. : 72
Env. / Ins. : Temp:24.8°C Humi:65% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : XJF
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	10.22	9.89	8.43	28.54	55.74	27.20	Average
2	0.15	10.22	9.89	16.20	36.31	65.74	29.43	QP
3	0.23	10.15	9.94	7.50	27.59	52.44	24.85	Average
4	0.23	10.15	9.94	13.40	33.49	62.44	28.95	QP
5	0.38	10.10	9.89	5.09	25.08	48.39	23.31	Average
6	0.38	10.10	9.89	10.20	30.19	58.39	28.20	QP
7	7.57	10.10	9.99	11.57	31.66	50.00	18.34	Average
8	7.57	10.10	9.99	17.40	37.49	60.00	22.51	QP
9	10.90	10.19	10.01	6.77	26.97	50.00	23.03	Average
10	10.90	10.19	10.01	12.40	32.60	60.00	27.40	QP
11	19.84	10.56	10.29	15.10	35.95	50.00	14.05	Average
12	19.84	10.56	10.29	18.20	39.05	60.00	20.95	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

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

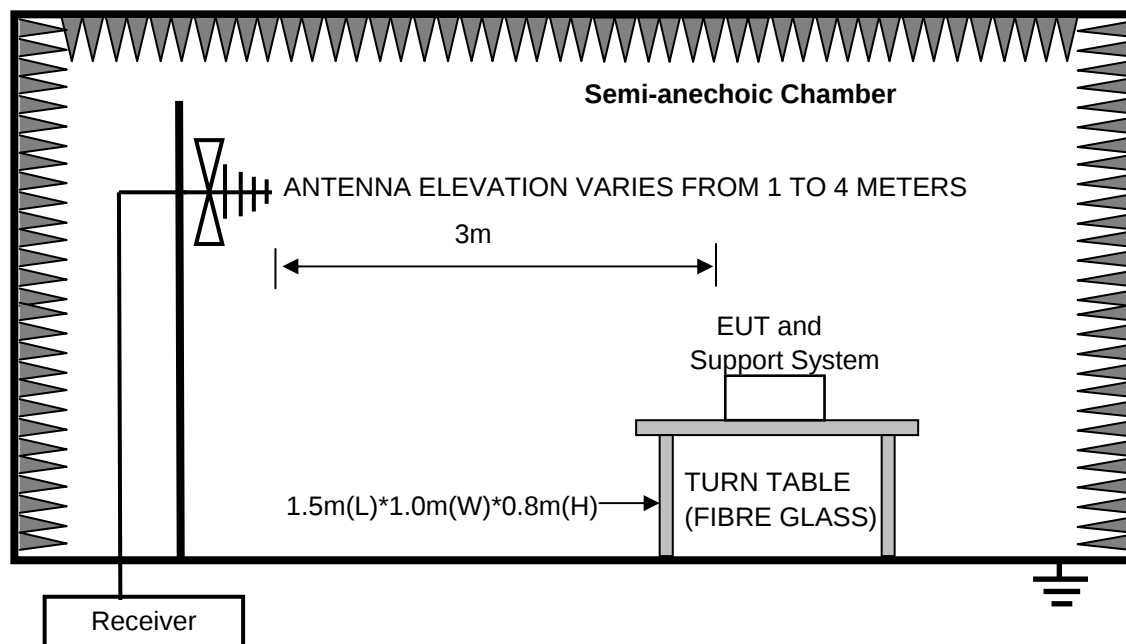
Test Setup

Date of test : Apr. 17, 2024
Model No. : MegaSys 1
Input Voltage : AC 240V/50Hz, AC 120V/60Hz
Operation Mode : INPUT, Bluetooth Mode

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)

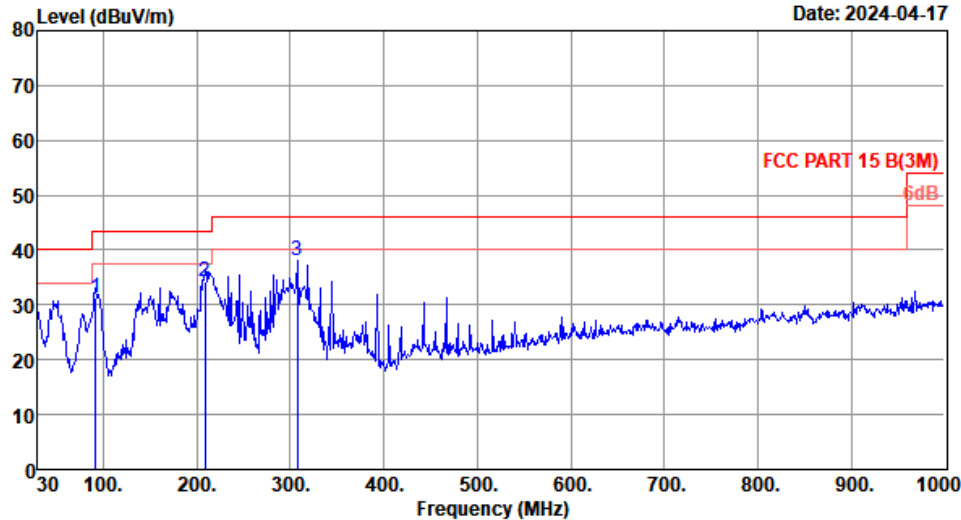
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Data: 58 File: \\EMC-966-1\\test data\\2024\\Jing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 58
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	92.08	10.30	1.35	19.55	31.20	43.50	12.30	QP
2	208.48	8.93	2.10	23.34	34.37	43.50	9.13	QP
3	307.42	13.14	2.66	22.14	37.94	46.00	8.06	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.

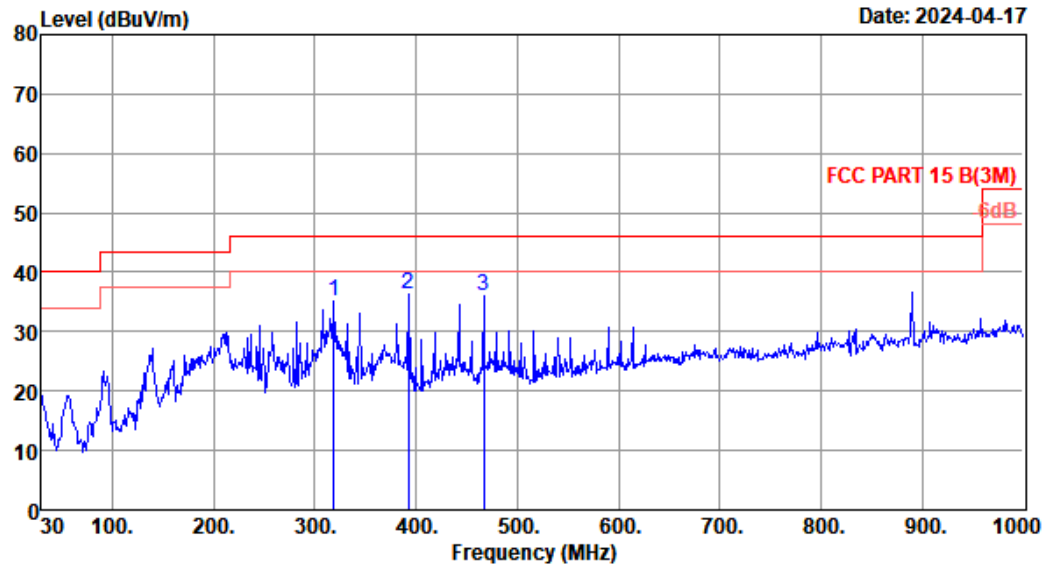
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Data: 59

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 59
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	319.06	13.74	2.71	18.61	35.06	46.00	10.94	QP
2	392.78	15.94	3.03	17.39	36.36	46.00	9.64	QP
3	466.50	18.13	3.30	14.44	35.87	46.00	10.13	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.

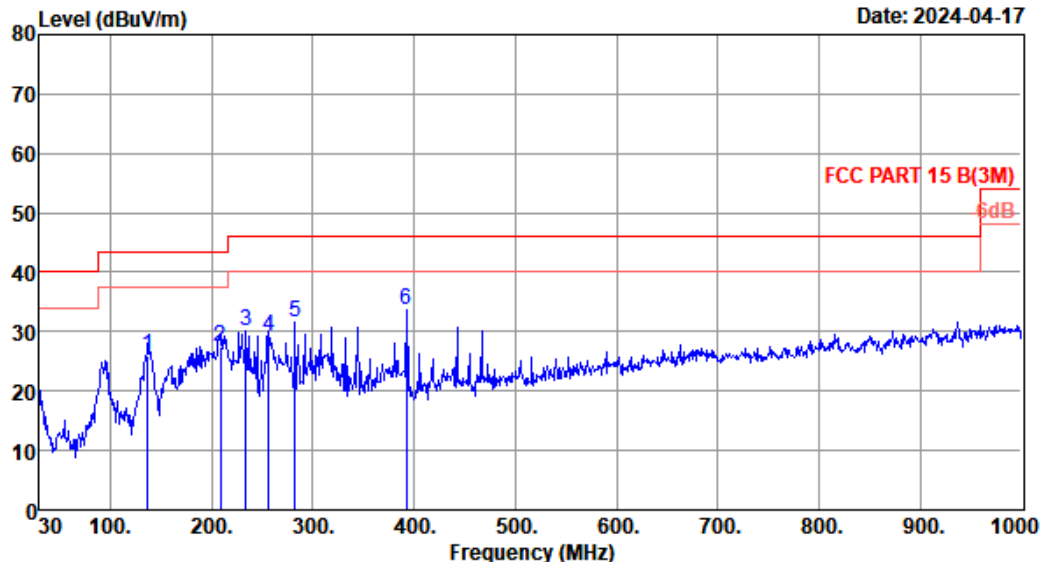
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Data: 60

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 60
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp;24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	136.70	12.70	1.67	11.55	25.92	43.50	17.58	QP
2	208.48	8.93	2.10	16.42	27.45	43.50	16.05	QP
3	233.70	10.56	2.23	17.35	30.14	46.00	15.86	QP
4	256.01	14.08	2.36	12.75	29.19	46.00	16.81	QP
5	282.20	12.96	2.52	16.03	31.51	46.00	14.49	QP
6	392.78	15.94	3.03	14.58	33.55	46.00	12.45	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.

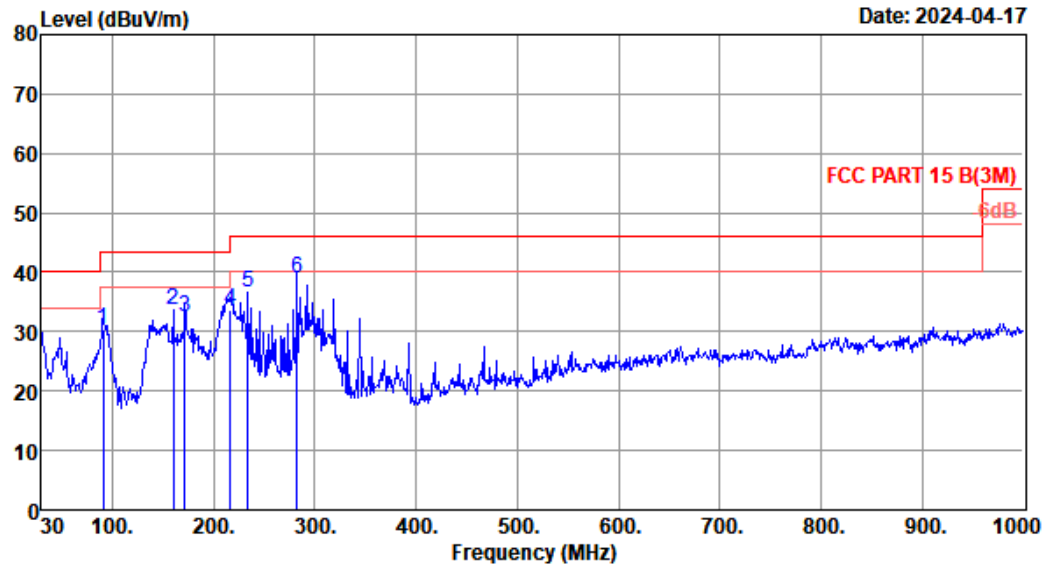
EST Technology

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Data: 61

File: \\EMC-966-1\\test data\\2024\\JJ\\Jing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 61
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	91.11	10.10	1.34	18.97	30.41	43.50	13.09	QP
2	159.98	11.00	1.82	20.74	33.56	43.50	9.94	QP
3	171.62	9.40	1.89	21.32	32.61	43.50	10.89	QP
4	216.24	9.94	2.14	21.52	33.60	46.00	12.40	QP
5	233.70	10.56	2.23	23.73	36.52	46.00	9.48	QP
6	282.20	12.96	2.52	23.45	38.93	46.00	7.07	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.

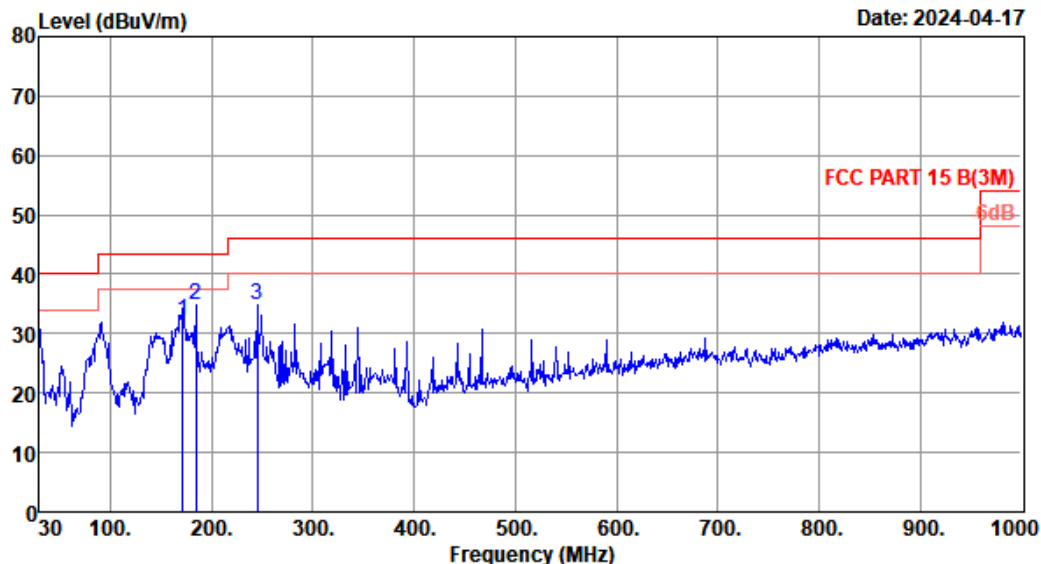
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Data: 62

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 62
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	171.62	9.40	1.89	20.87	32.16	43.50	11.34	QP
2	184.23	9.10	1.96	23.84	34.90	43.50	8.60	QP
3	245.34	12.10	2.29	20.49	34.88	46.00	11.12	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.

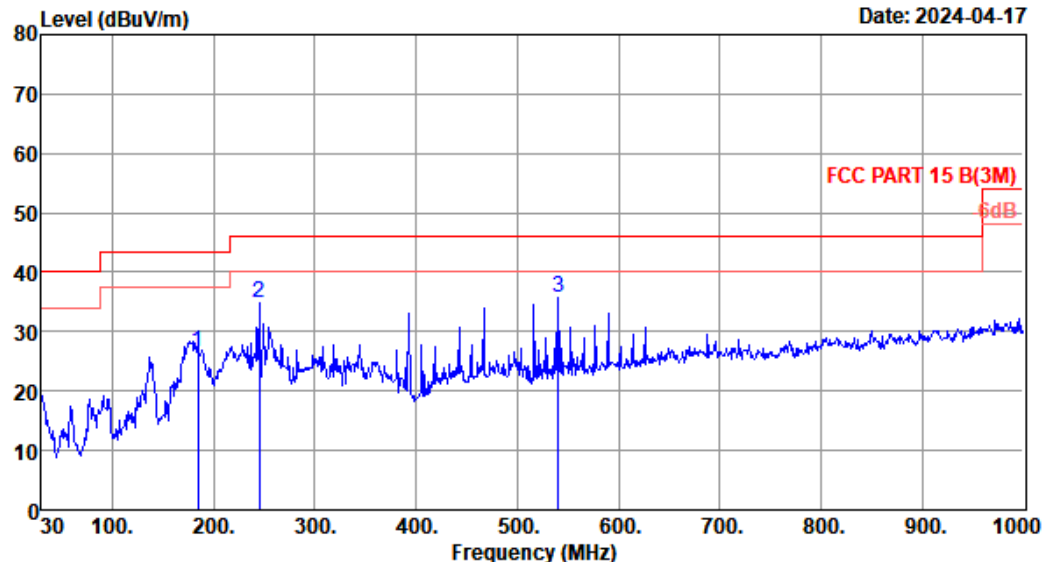
EST Technology

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Data: 63

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 63
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	184.23	9.10	1.96	15.56	26.62	43.50	16.88	QP
2	245.34	12.10	2.29	20.39	34.78	46.00	11.22	QP
3	540.22	19.30	3.59	12.95	35.84	46.00	10.16	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.

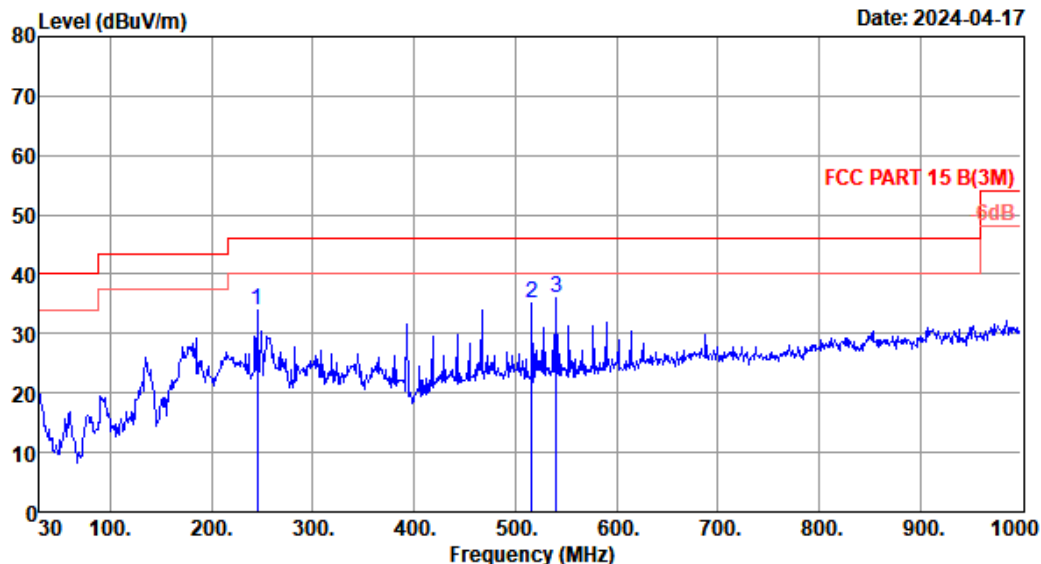
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Data: 64

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 64
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	245.34	12.10	2.29	19.56	33.95	46.00	12.05	QP
2	515.97	18.22	3.49	13.32	35.03	46.00	10.97	QP
3	540.22	19.30	3.59	13.18	36.07	46.00	9.93	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.

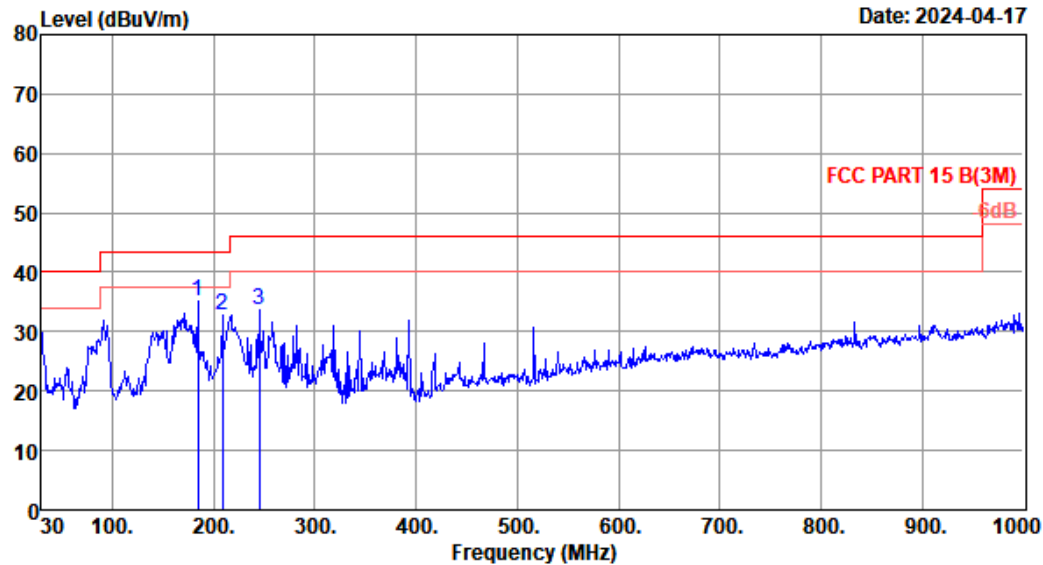
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Data: 65

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-17



Site no. : 1# 966 Chamber Data no. : 65
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:24.5°C;Humi:46.3%;Press:101.47kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : INPUT

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	184.23	9.10	1.96	24.15	35.21	43.50	8.29	QP
2	208.48	8.93	2.10	21.82	32.85	43.50	10.65	QP
3	245.34	12.10	2.29	19.38	33.77	46.00	12.23	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 : 1GHz-18GHz
 Test Site : 966 Chamber
 Limits : FCC Part 15:2023 Class B

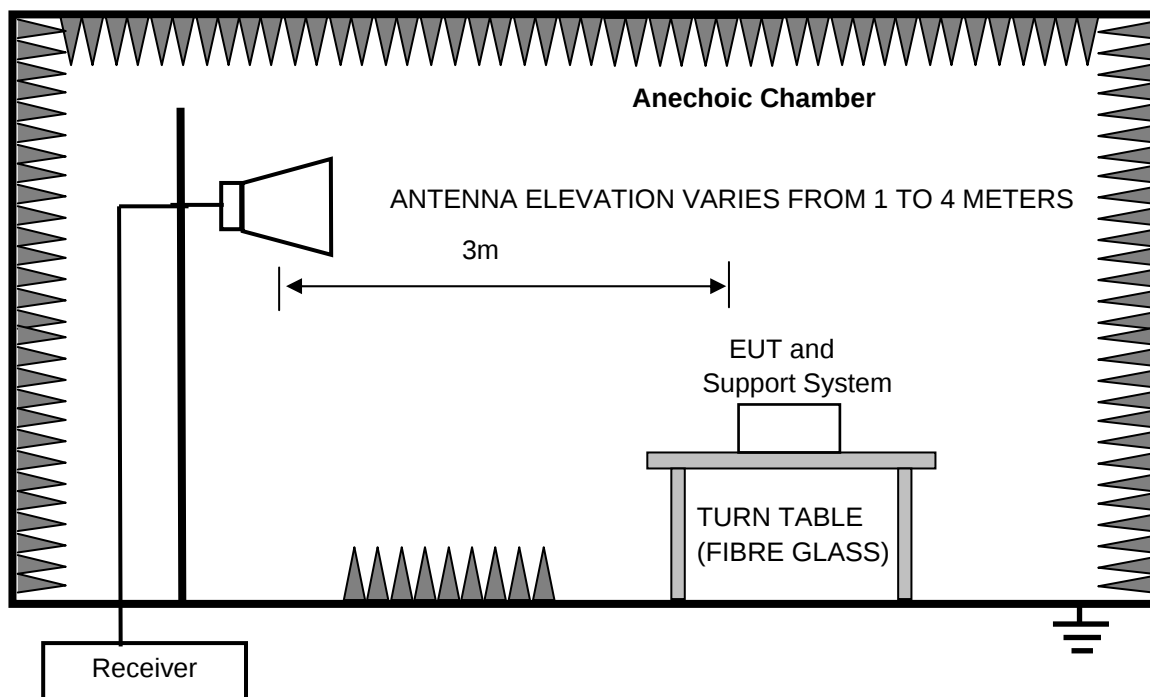
Test Setup

Date of test : Apr. 16, 2024
 Model No. : MegaSys 1
 Input Voltage : AC 240V/50Hz, AC 120V/60Hz
 Operation Mode : INPUT, Bluetooth Mode

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)
Test uncertainty: $\pm 5.08\text{dB}$ at a level of confidence of 95%.(6-18GHz)

Test Data

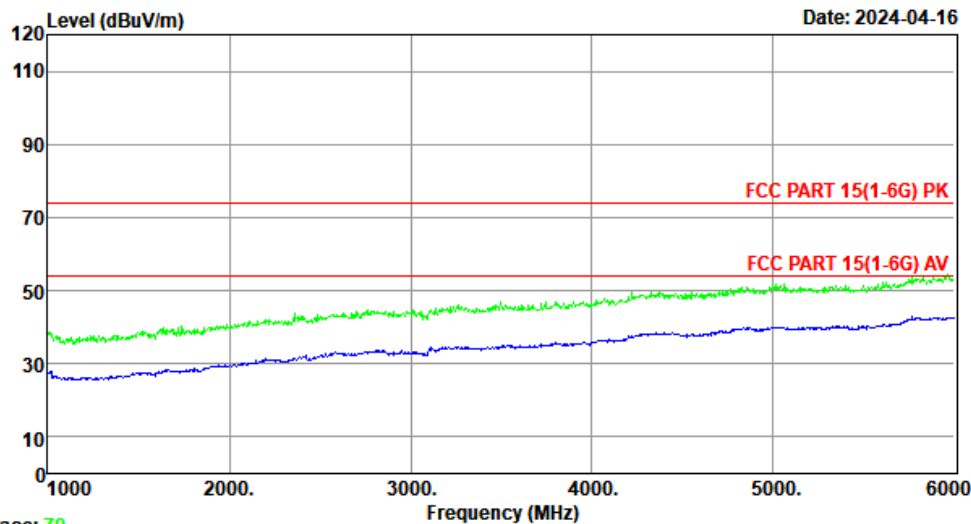
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Data: 71

File: \\EMC-966-1\test data\2024\JJing heng.EM6 (221)

Date: 2024-04-16



Trace: 70

Site no. : 1# 966 Chamber Data no. : 71
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:23.4°C.Humi:59%;Press:101.1kPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : INPUT

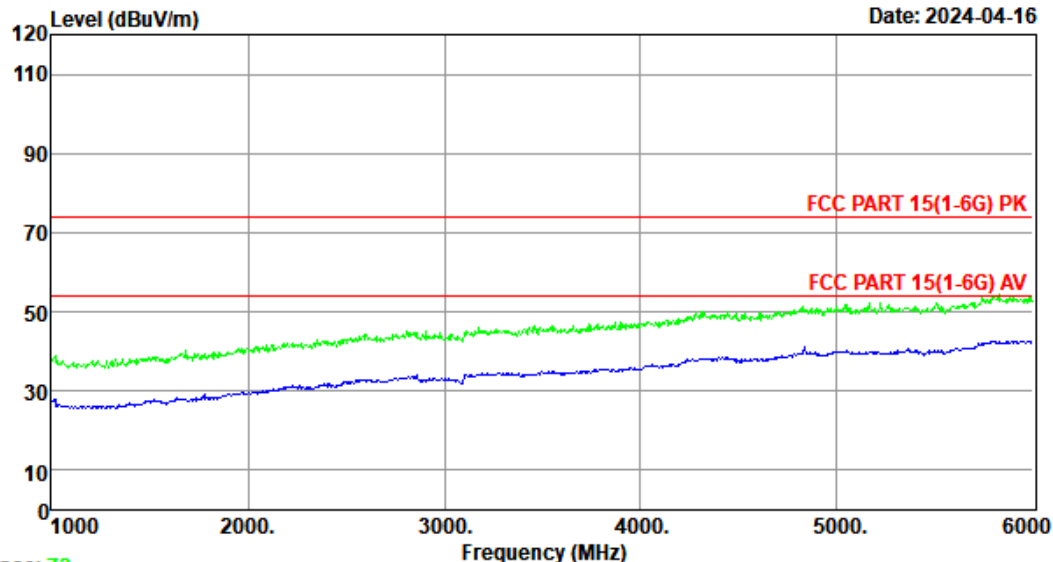
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Data: 73

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-16



Trace: 72

Site no. : 1# 966 Chamber Data no. : 73
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : INPUT

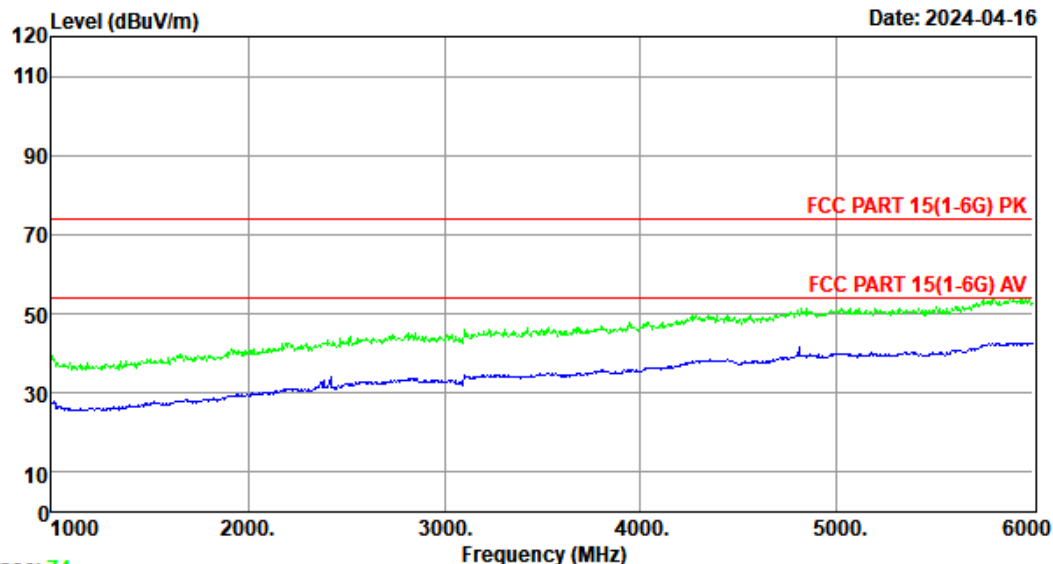
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Data: 75

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-16



Trace: 74

Site no. : 1# 966 Chamber Data no. : 75
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

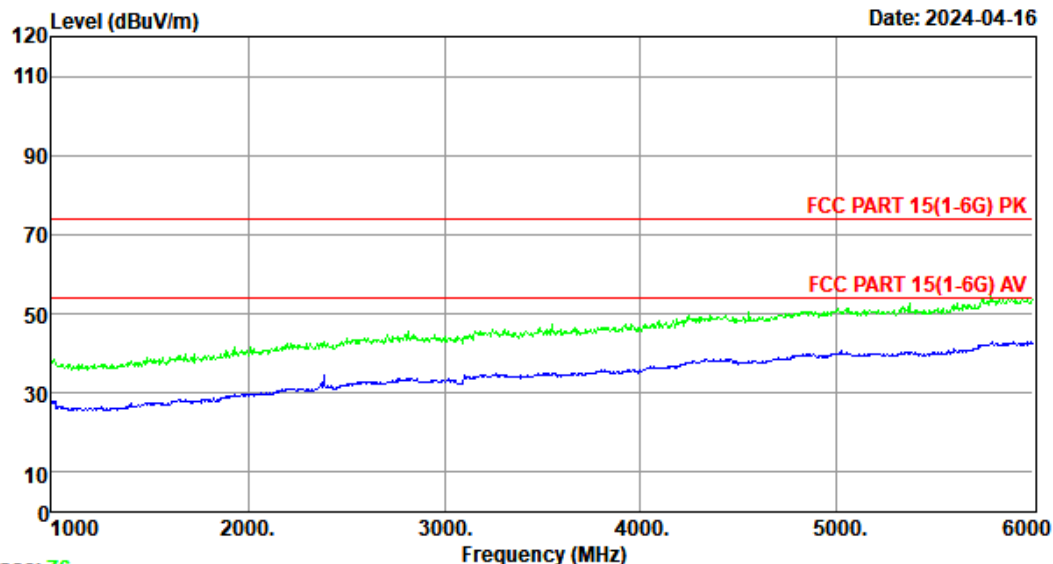
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Data: 77

File: \\EMC-966-1\test data\2024\JJing heng.EM6 (221)

Date: 2024-04-16



Trace: 76

Site no. : 1# 966 Chamber Data no. : 77
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : INPUT

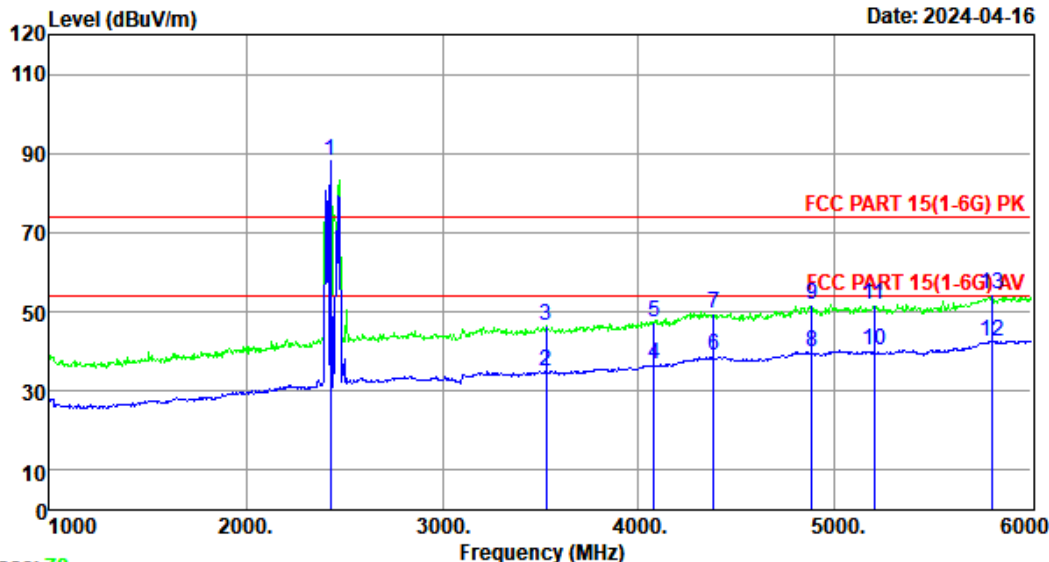
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Data: 79

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-16



Trace: 78

Site no. : 1# 966 Chamber Data no. : 79
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2430.00	27.33	3.58	57.25	88.16	74.00	-14.16	2.4G TX
2	3530.00	29.83	4.16	1.01	35.00	54.00	19.00	Average
3	3530.00	29.83	4.16	12.40	46.39	74.00	27.61	Peak
4	4080.00	30.87	4.38	1.35	36.60	54.00	17.40	Average
5	4080.00	30.87	4.38	12.10	47.35	74.00	26.65	Peak
6	4380.00	31.40	4.73	2.69	38.82	54.00	15.18	Average
7	4380.00	31.40	4.73	13.40	49.53	74.00	24.47	Peak
8	4880.00	32.40	5.28	2.23	39.91	54.00	14.09	Average
9	4880.00	32.40	5.28	14.10	51.78	74.00	22.22	Peak
10	5200.00	32.90	5.56	1.82	40.28	54.00	13.72	Average
11	5200.00	32.90	5.56	13.50	51.96	74.00	22.04	Peak
12	5800.00	34.10	6.01	2.57	42.68	54.00	11.32	Average
13	5800.00	34.10	6.01	14.40	54.51	74.00	19.49	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.

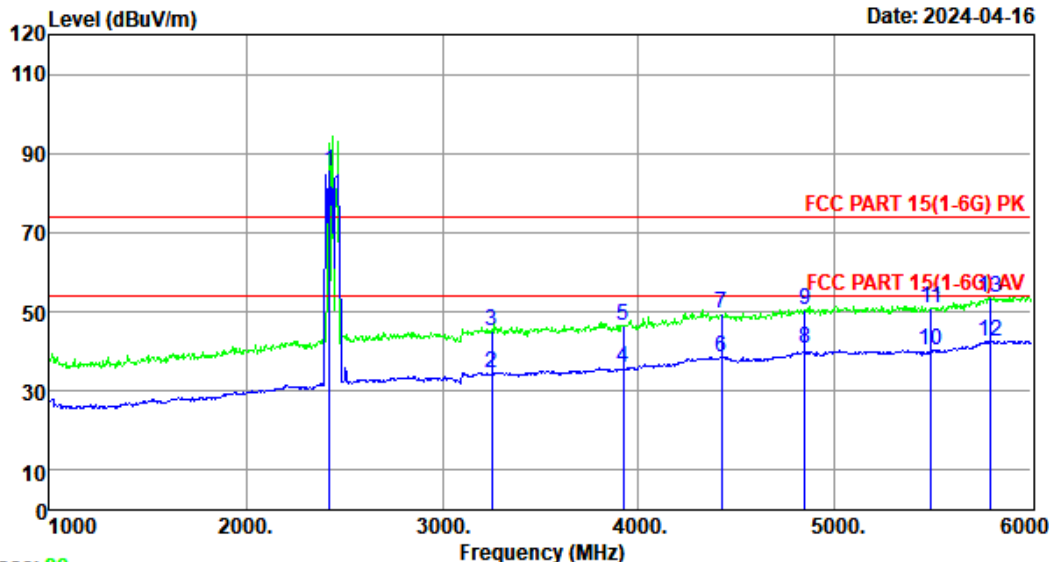
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Data: 81

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-16



Trace: 80

Site no. : 1# 966 Chamber Data no. : 81
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2425.00	27.33	3.58	54.60	85.51	74.00	-11.51	2.4G TX
2	3250.00	29.60	4.08	0.98	34.66	54.00	19.34	Average
3	3250.00	29.60	4.08	11.40	45.08	74.00	28.92	Peak
4	3920.00	30.30	4.27	1.29	35.86	54.00	18.14	Average
5	3920.00	30.30	4.27	12.10	46.67	74.00	27.33	Peak
6	4420.00	31.40	4.76	2.52	38.68	54.00	15.32	Average
7	4420.00	31.40	4.76	13.40	49.56	74.00	24.44	Peak
8	4845.00	32.20	5.24	3.14	40.58	54.00	13.42	Average
9	4845.00	32.20	5.24	13.20	50.64	74.00	23.36	Peak
10	5490.00	32.77	5.78	1.88	40.43	54.00	13.57	Average
11	5490.00	32.77	5.78	12.50	51.05	74.00	22.95	Peak
12	5790.00	34.10	6.01	2.55	42.66	54.00	11.34	Average
13	5790.00	34.10	6.01	13.40	53.51	74.00	20.49	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.

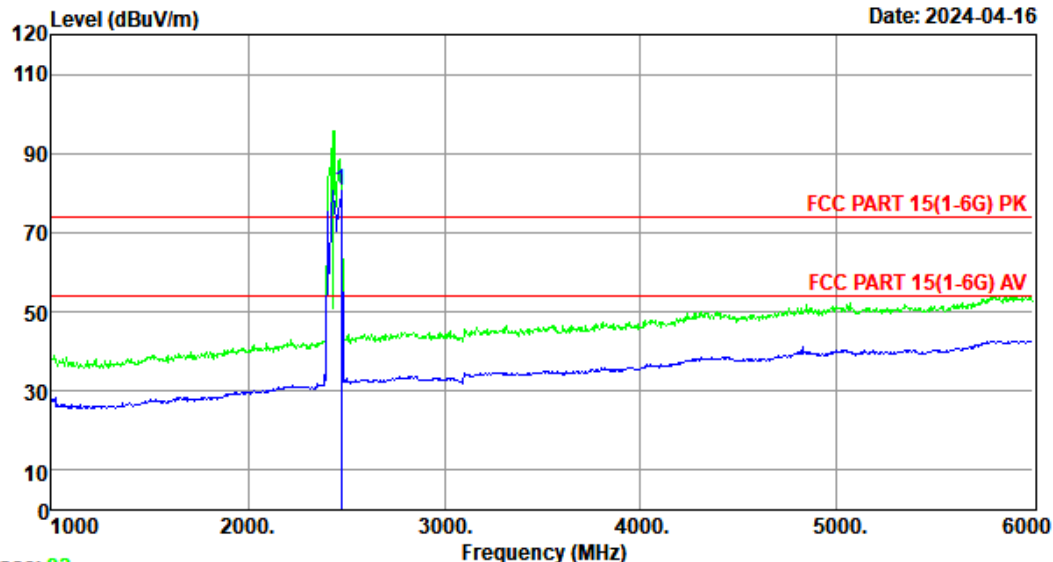
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Data: 83

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-16



Trace: 82

Site no. : 1# 966 Chamber Data no. : 83
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2475.00	27.77	3.62	49.35	80.74	74.00	-6.74	2.4G TX

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.

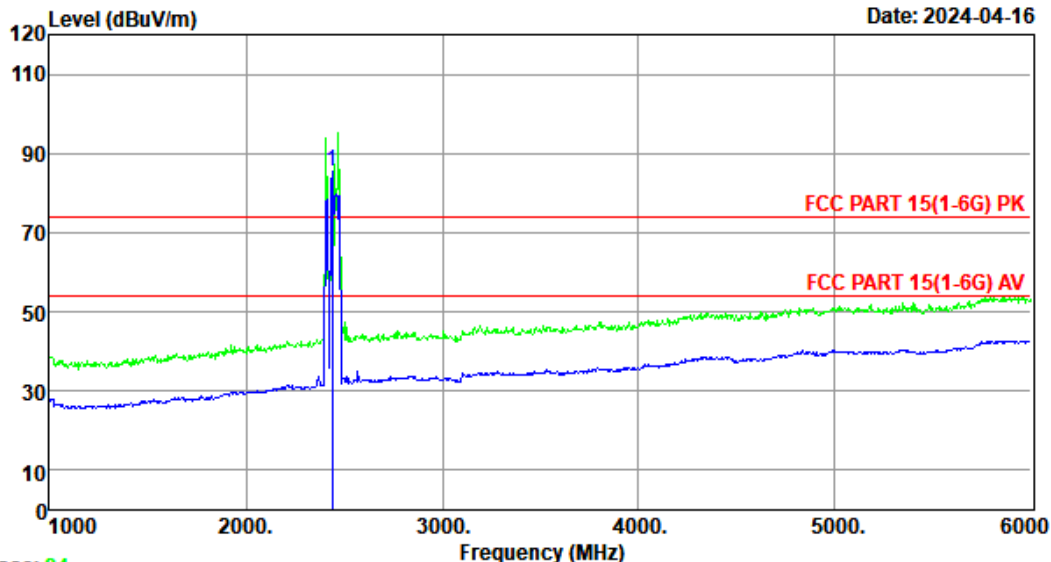
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Data: 85

File: \\EMC-966-1\\test data\\2024\\J\\Jing heng.EM6 (221)

Date: 2024-04-16



Trace: 84

Site no. : 1# 966 Chamber Data no. : 85
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.10	3.59	54.77	85.46	74.00	-11.46	2.4G TX

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.

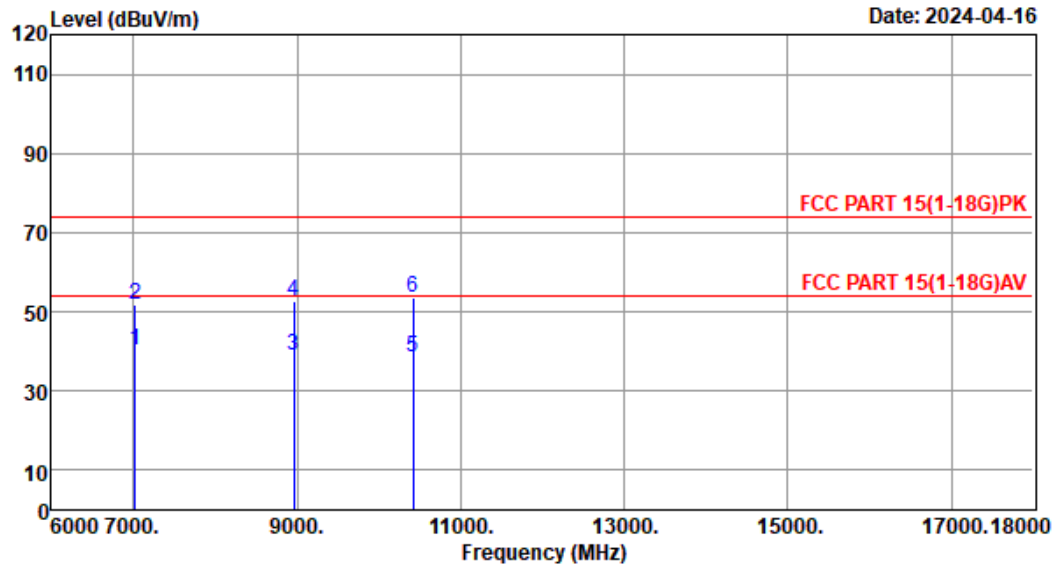
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Data: 94

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-16



Site no. : 1# 966 Chamber Data no. : 94
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15(1-18G)PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7021.00	35.83	5.13	34.40	33.70	40.26	54.00	13.74	Average
2	7021.00	35.83	5.13	34.40	45.40	51.96	74.00	22.04	Peak
3	8965.00	36.90	5.28	35.38	32.10	38.90	54.00	15.10	Average
4	8965.00	36.90	5.28	35.38	45.90	52.70	74.00	21.30	Peak
5	10422.00	39.32	6.00	36.24	29.40	38.48	54.00	15.52	Average
6	10422.00	39.32	6.00	36.24	44.50	53.58	74.00	20.42	Peak

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

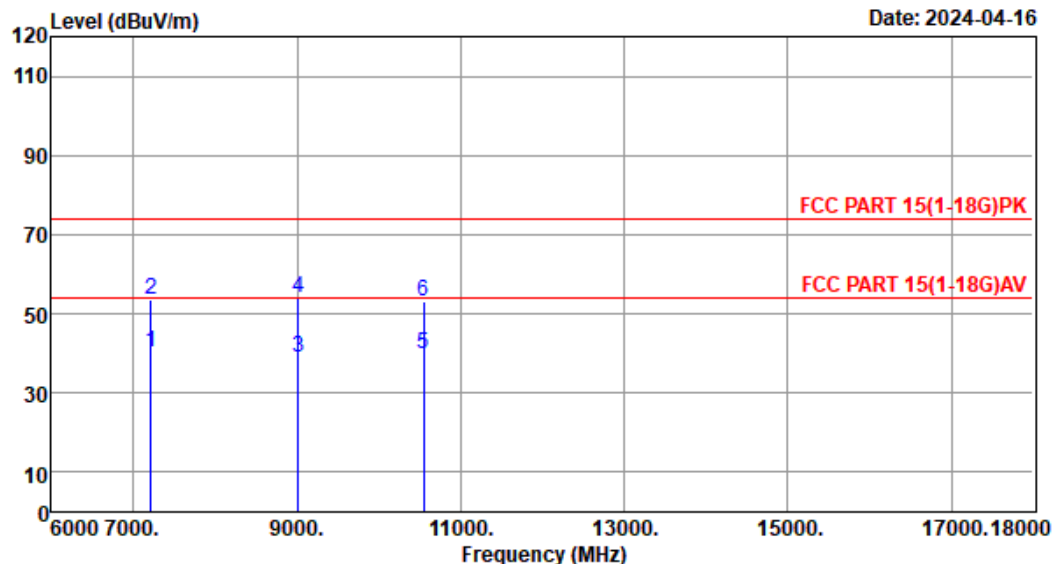
EST Technology

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Data: 95

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-16



Site no. : 1# 966 Chamber Data no. : 95
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15(1-18G)PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 240V/50Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7211.00	36.21	5.19	34.44	33.50	40.46	54.00	13.54	Average
2	7211.00	36.21	5.19	34.44	46.50	53.46	74.00	20.54	Peak
3	9012.00	36.90	5.29	35.40	32.30	39.09	54.00	14.91	Average
4	9012.00	36.90	5.29	35.40	47.40	54.19	74.00	19.81	Peak
5	10549.00	39.46	6.03	36.26	30.60	39.83	54.00	14.17	Average
6	10549.00	39.46	6.03	36.26	43.80	53.03	74.00	20.97	Peak

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

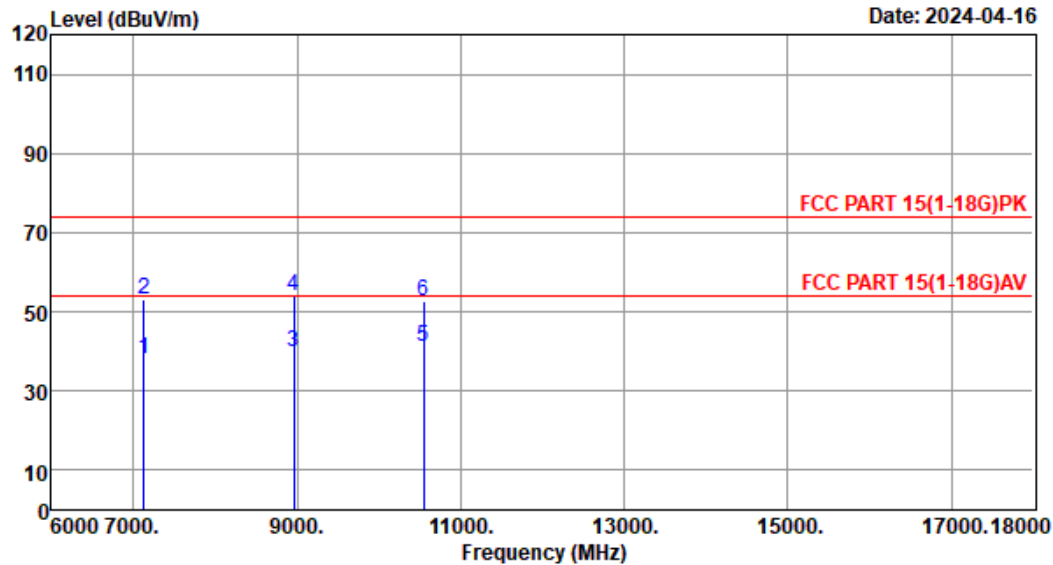
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Data: 96

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-16



Site no. : 1# 966 Chamber Data no. : 96
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15(1-18G)PK
Env. / Ins. : Temp:23.4°C,Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7133.00	36.08	5.17	34.42	31.40	38.23	54.00	15.77	Average
2	7133.00	36.08	5.17	34.42	46.49	53.32	74.00	20.68	Peak
3	8963.00	36.90	5.28	35.38	32.90	39.70	54.00	14.30	Average
4	8963.00	36.90	5.28	35.38	47.40	54.20	74.00	19.80	Peak
5	10543.00	39.44	6.03	36.26	31.80	41.01	54.00	12.99	Average
6	10543.00	39.44	6.03	36.26	43.50	52.71	74.00	21.29	Peak

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

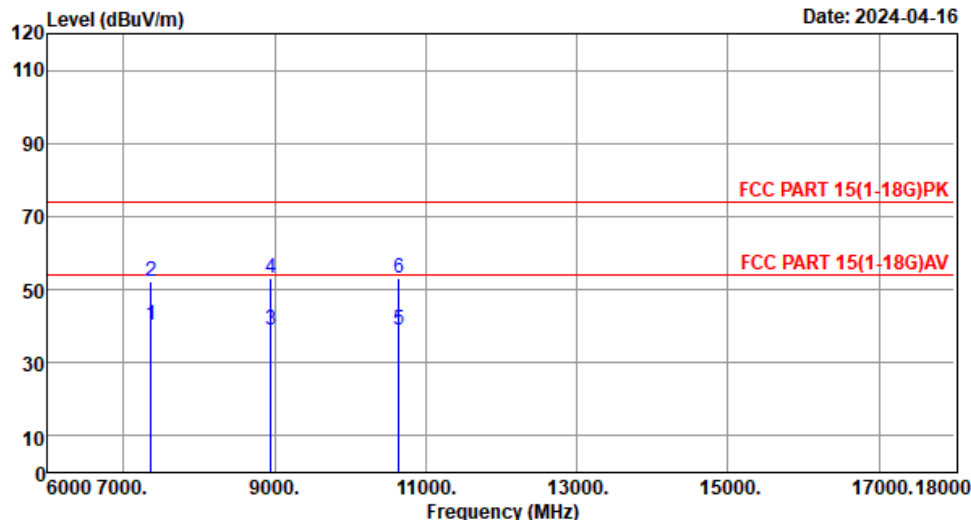
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Data: 97

File: \\EMC-966-1\\test data\\2024\\JJing heng.EM6 (221)

Date: 2024-04-16



Site no. : 1# 966 Chamber Data no. : 97
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15(1-18G)PK
Env. / Ins. : Temp:23.4°C.Humi:59%;Press:101.1KPa
Engineer : DCY
EUT : Active Loudspeaker System
Power : AC 120V/60Hz
M/N : MegaSys 1
Test Mode : Bluetooth Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7364.00	36.52	5.23	34.47	33.10	40.38	54.00	13.62	Average
2	7364.00	36.52	5.23	34.47	45.10	52.38	74.00	21.62	Peak
3	8946.00	36.90	5.28	35.36	32.20	39.02	54.00	14.98	Average
4	8946.00	36.90	5.28	35.36	46.10	52.92	74.00	21.08	Peak
5	10648.00	39.56	6.05	36.26	29.69	39.04	54.00	14.96	Average
6	10648.00	39.56	6.05	36.26	43.89	53.24	74.00	20.76	Peak

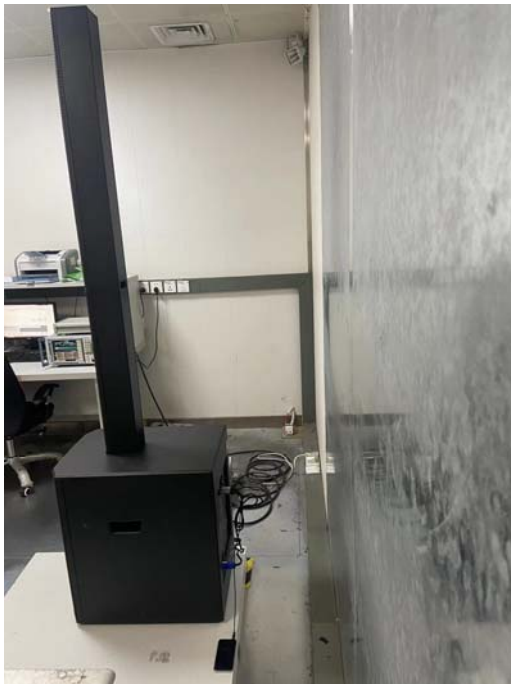
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

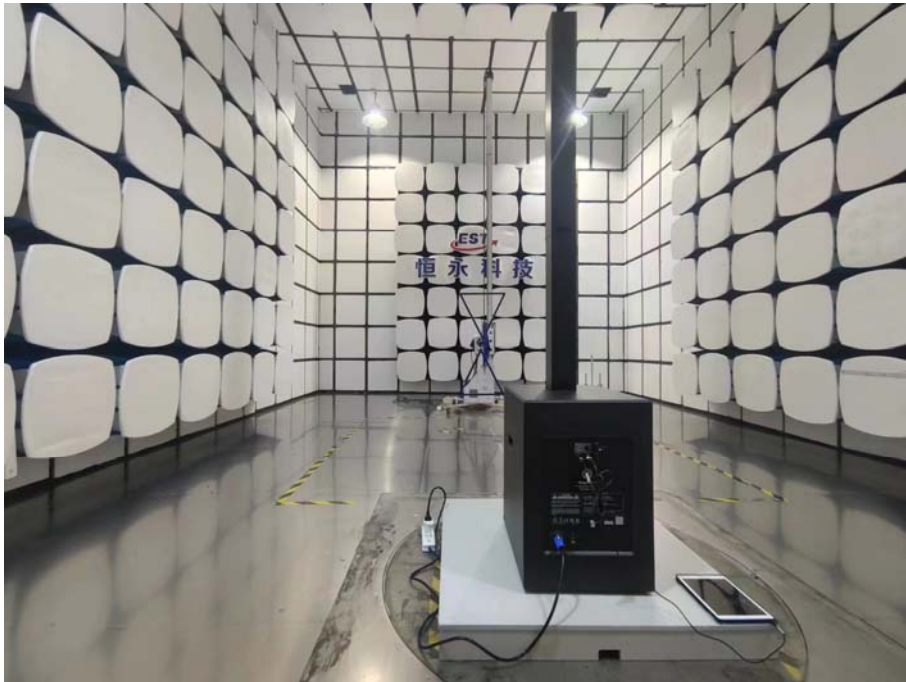
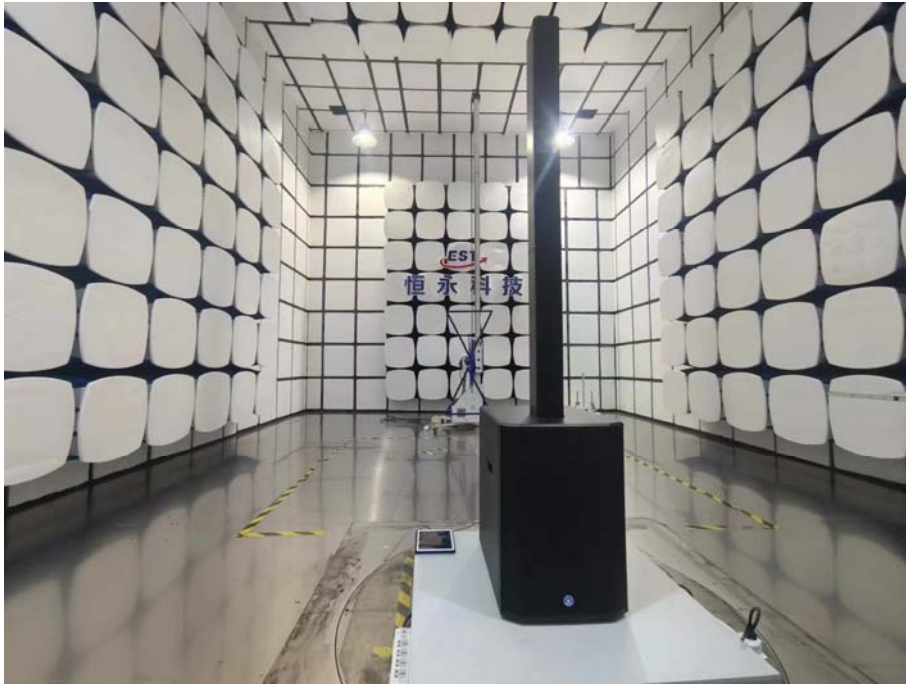
1. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

5. PHOTOGRAPHS OF TEST SET-UP

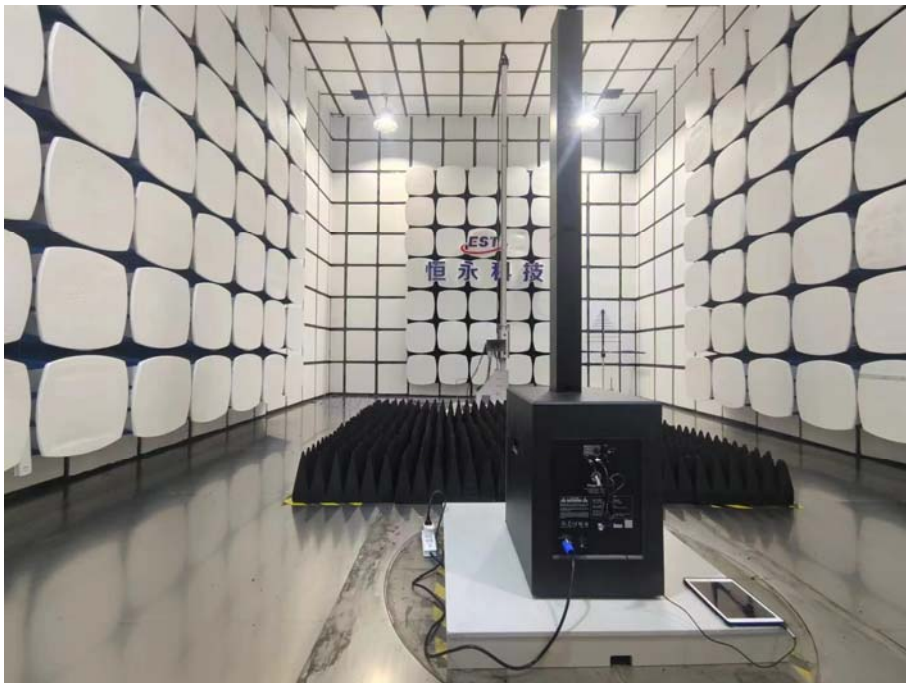
5.1. Set-up for Conducted Emission at the Mains Terminals Test



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



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



6. PHOTOGRAPHS OF THE EUT

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
General Appearance of the EUT



Figure 10
General Appearance of the EUT



Figure 11
General Appearance of the EUT

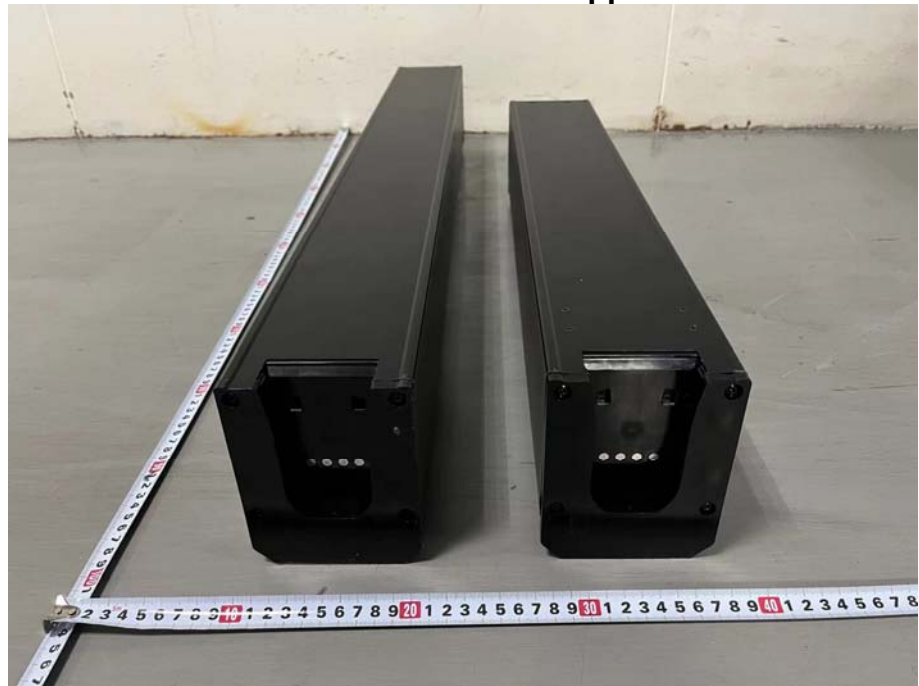


Figure 12
General Appearance of the EUT

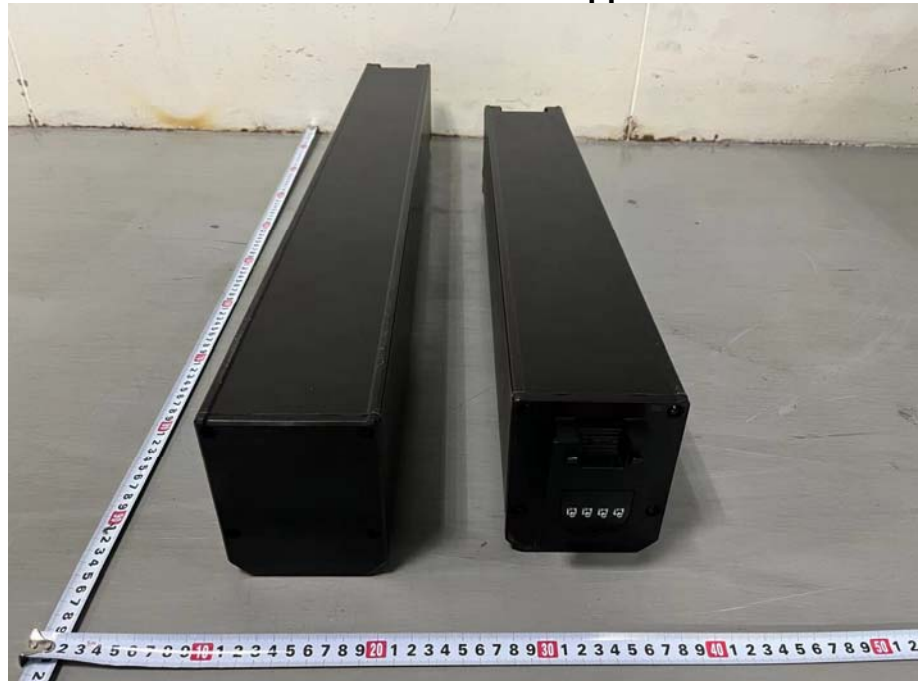


Figure 13
General Appearance of the EUT



Figure 14
General Appearance of the EUT



Figure 15
Inside View of the EUT



Figure 16
Inside View of the EUT

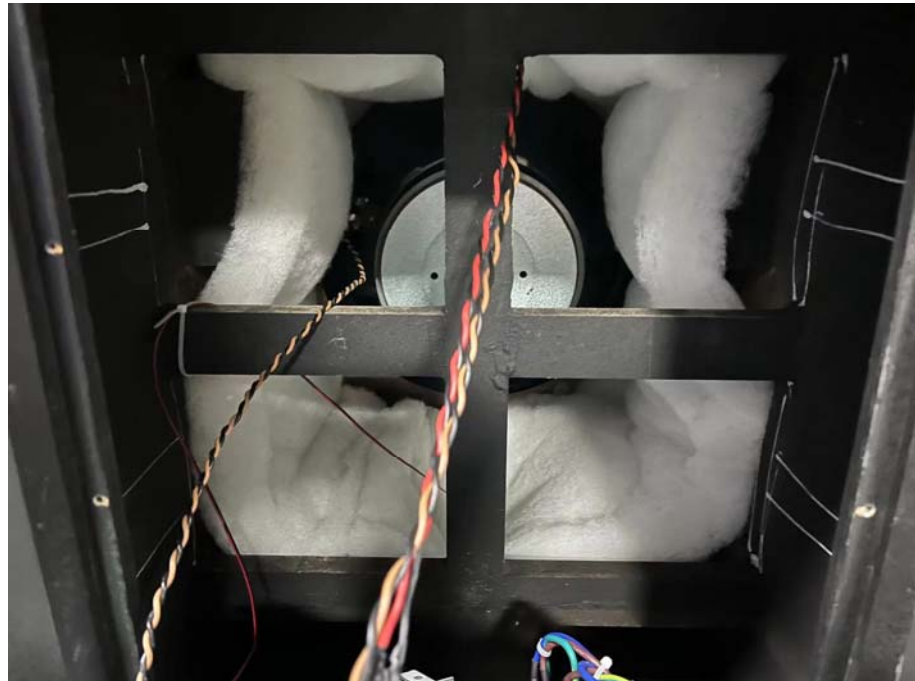


Figure 17
Inside View of the EUT

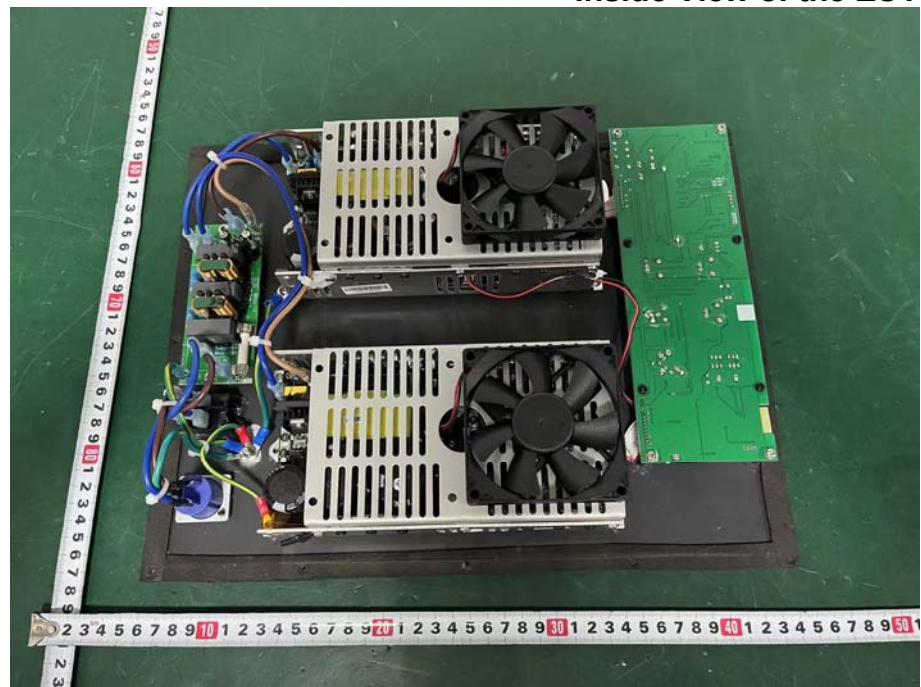


Figure 18
Inside View of the EUT

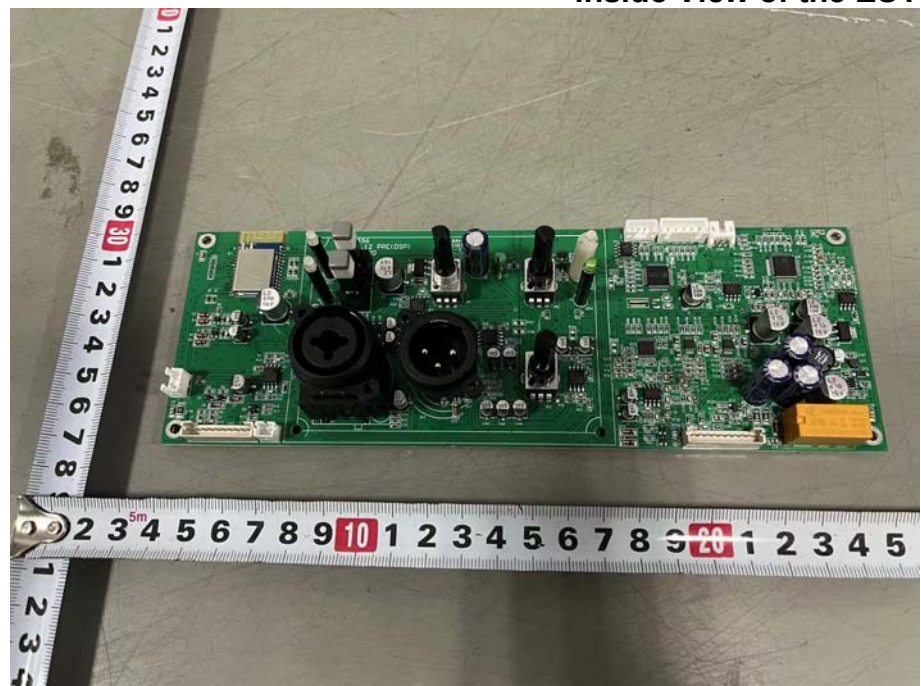


Figure 19
Inside View of the EUT

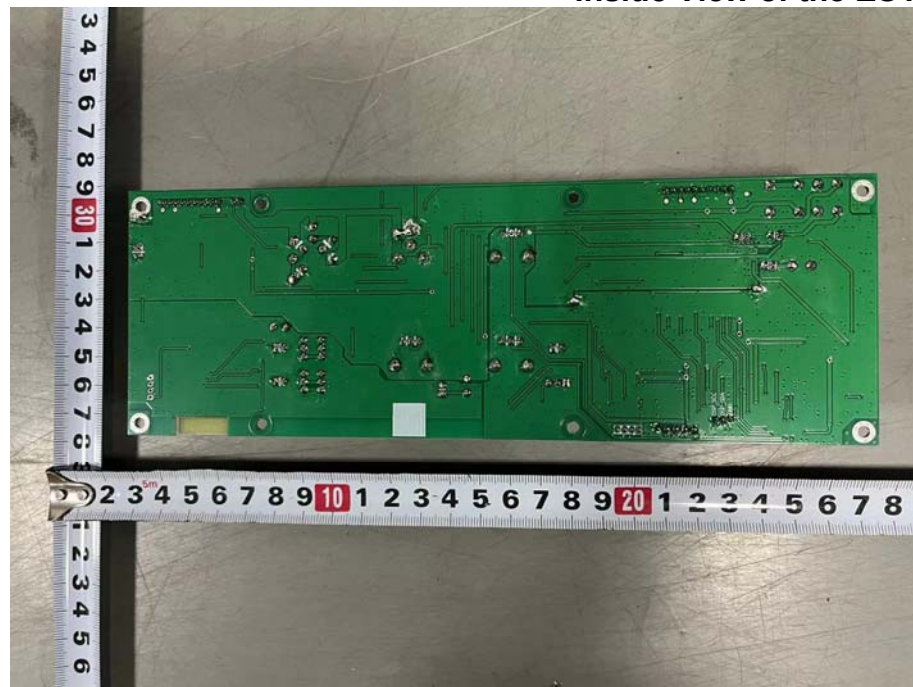


Figure 20
Inside View of the EUT

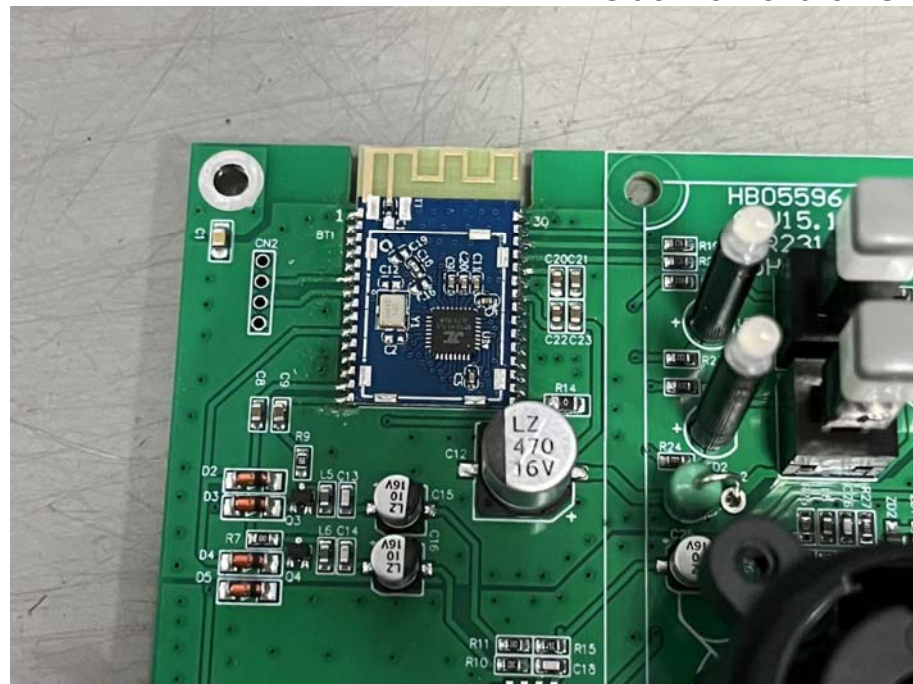


Figure 21
Inside View of the EUT

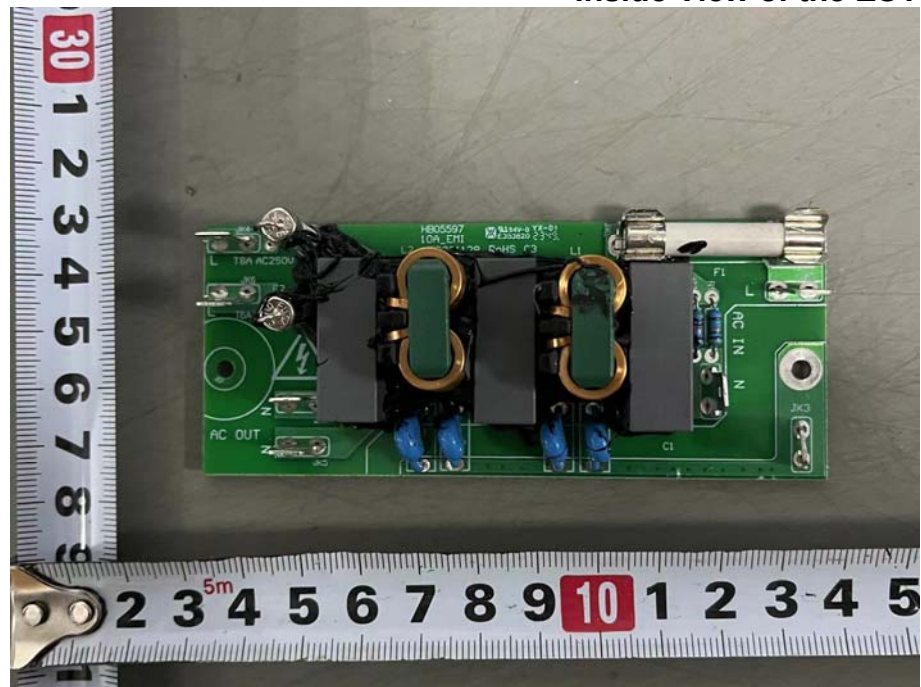


Figure 22
Inside View of the EUT

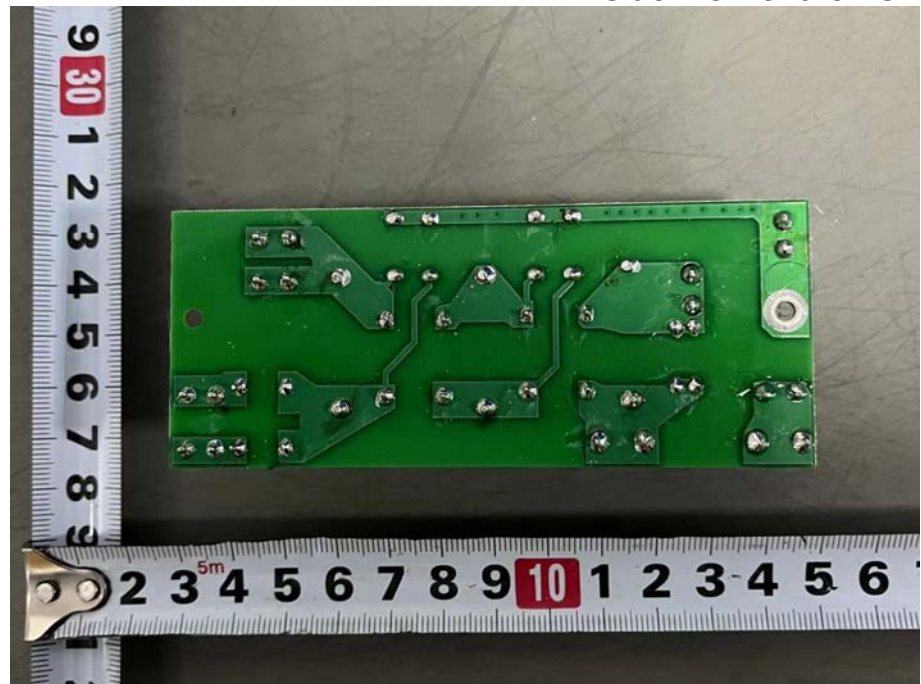


Figure 23
Inside View of the EUT

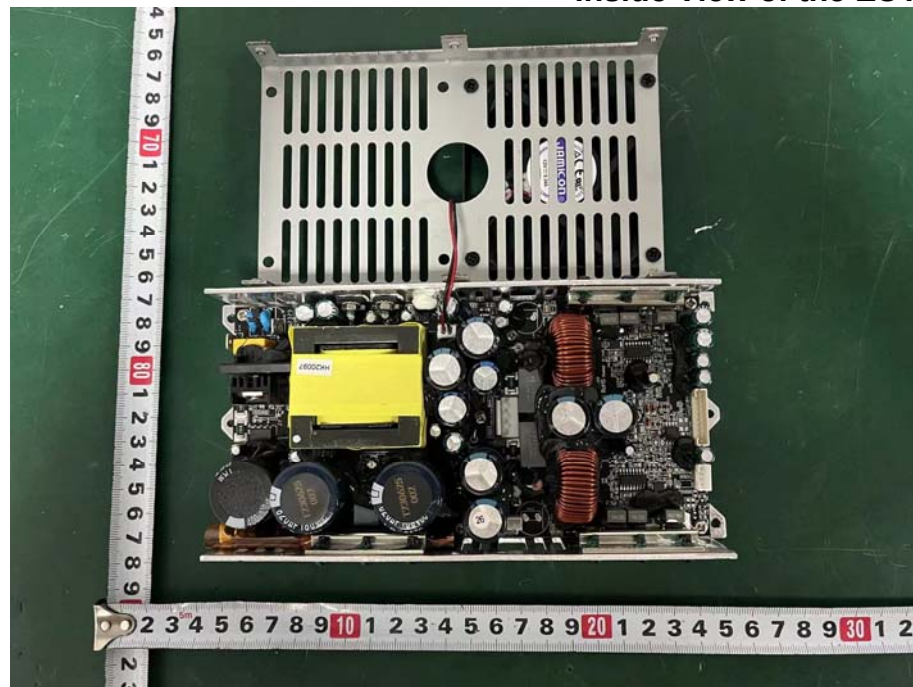


Figure 24
Inside View of the EUT

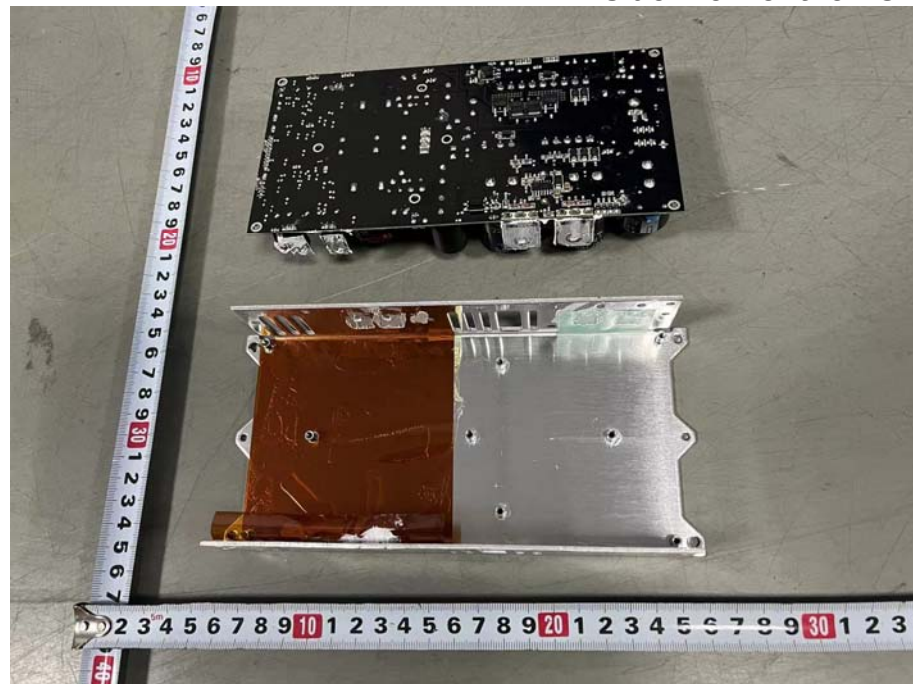


Figure 25
Inside View of the EUT

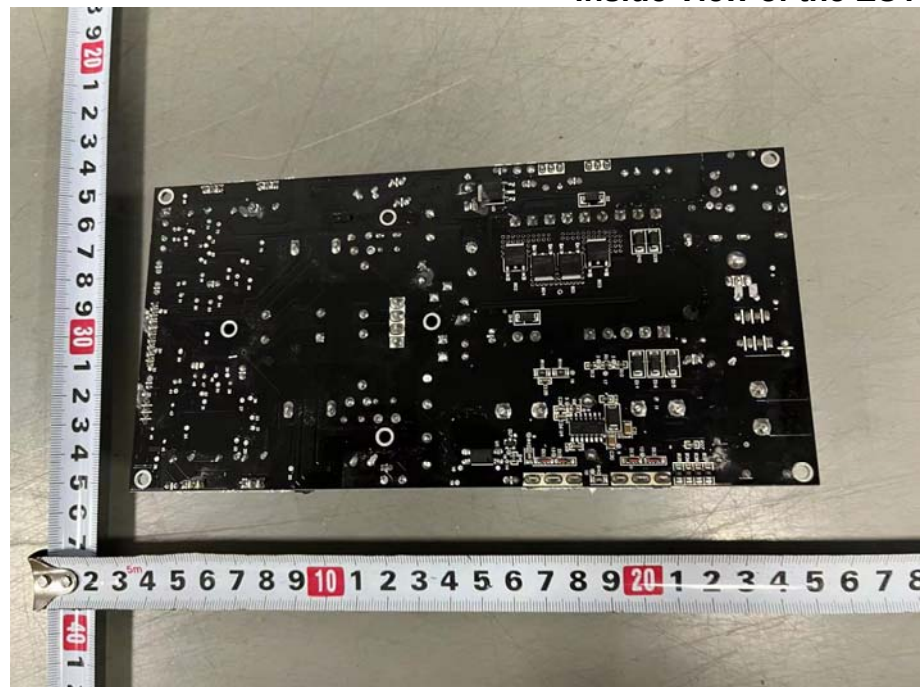


Figure 26
Inside View of the EUT



Figure 27
Inside View of the EUT

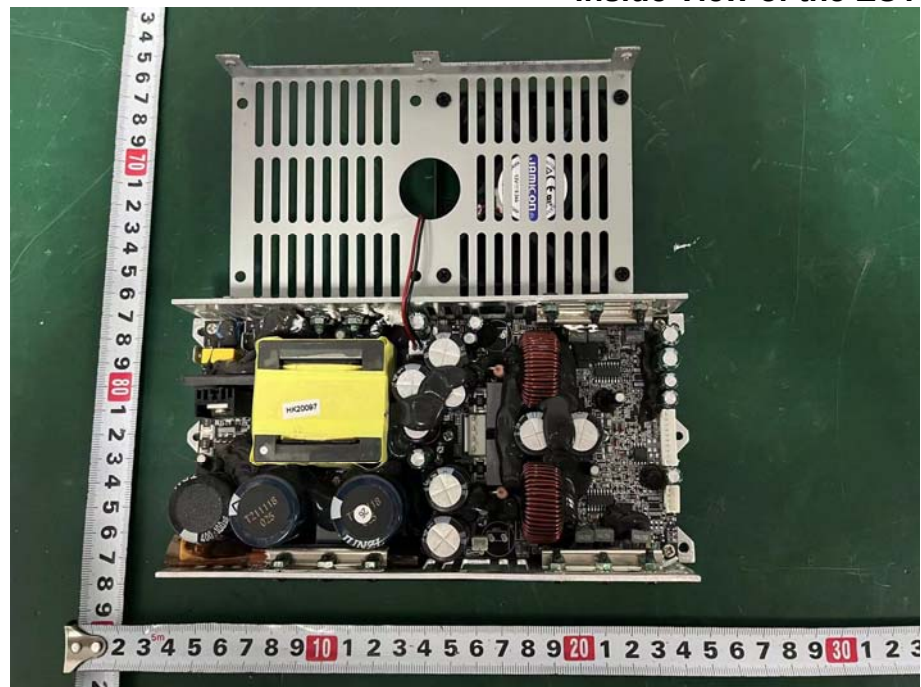


Figure 28
Inside View of the EUT

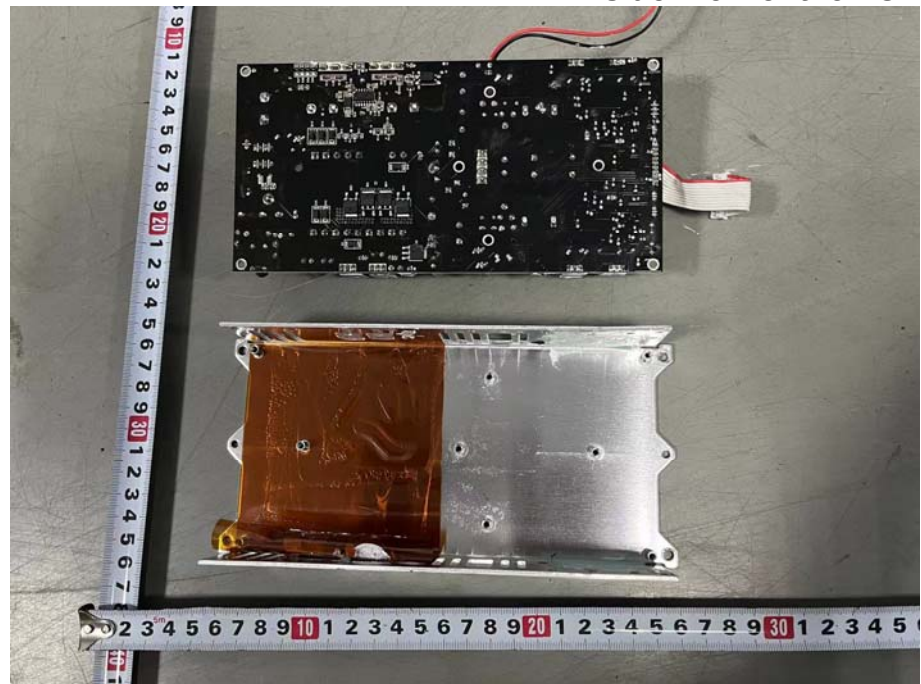


Figure 29
Inside View of the EUT

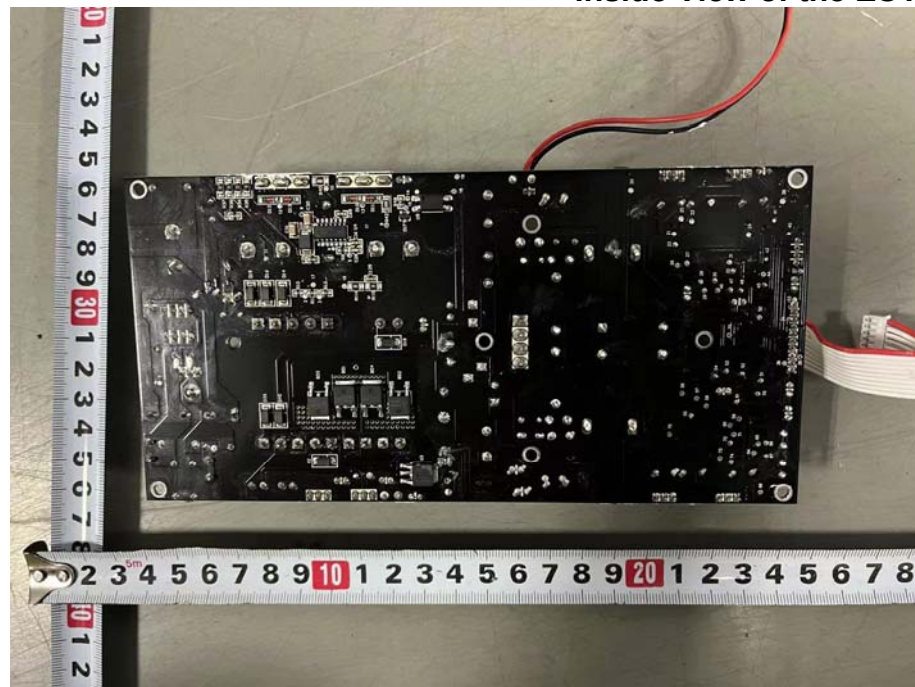
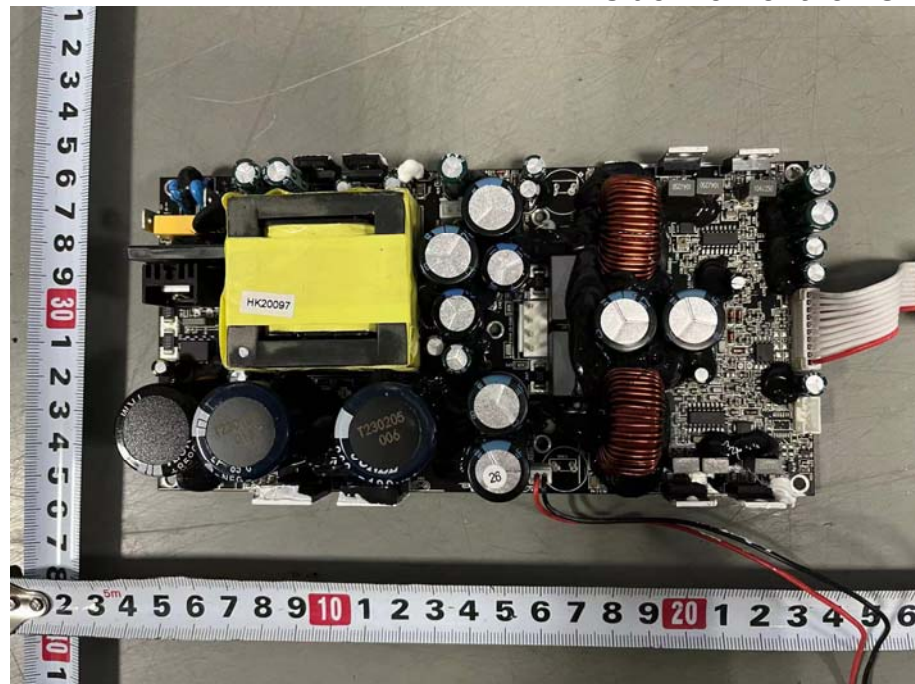


Figure 30
Inside View of the EUT



End of Test Report