

TEST REPORT

Applicant: Thundercomm Technology Co., Ltd.
Address: No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Equipment Type: RUBIK Pi
Model Name: RUBIK Pi 3 (refer to section 2.3)
Brand Name: RUBIK Pi
FCC ID: 2AOHHRUBIKPI3
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Dec. 13, 2024
Test Date: Dec. 19, 2024 - Jan. 16, 2025
Date of Issue: Jan. 24, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Qiu Yongjing**Checked by:** Liu Zhenxiang**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jan. 24, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Thundercomm Technology Co., Ltd.
Address	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122

2.2 Manufacturer Information

Manufacturer	Thundercomm Technology Co., Ltd.
Address	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122

2.3 General Description for Equipment under Test (EUT)

EUT Name	Rubik Pi
Model Name Under Test	RUBIK Pi 3
Series Model Name	RUBIK Pi 3 Lite
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	V02
Software Version	LE 1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
Note1: The product Memory designed with two different Hardware. Please find bellow detail: 1. The product comes in two memory configurations:8GB + 128GB and 4GB + 64GB. 2. The two memory chips are from different manufacturers. Note2: RE-L difference test was performed on two samples with different memory	

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
Classification of equipment	Class B
The highest internal frequency of EUT	5850MHz

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Remark
1	Radiated Emission	15.109	Pass	--
2	Conducted Emission, AC Ports	15.107	Pass	--

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	3.2 dB
Radiated emissions (30 MHz-1 GHz)-966#2	4.4 dB
Radiated emissions (1 GHz-18 GHz)-966#2	5.0 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Mouse	Niye	M508	N/A	N/A	N/A	☒
Keyboard	Dell	KB216d1	N/A	N/A	N/A	☒
Laptop	Lenovo	ZHAOYAN G K4e-IML	N/A	N/A	N/A	☒
Display Screen	Huawei	HSN-CBA	75RUN215 25001426	N/A	N/A	☒
Display Screen	Huawei	XWU-CAA	QNXKYK218 27000055	N/A	N/A	☒
Camera	N/A	N/A	N/A	N/A	N/A	☒
Fan	N/A	N/A	N/A	N/A	N/A	☒
M.2 SSD NVMe	Jiangbolong	JZ- SSD256G-5	N/A	N/A	N/A	☒
Earphone	OPPO	N/A	N/A	N/A	N/A	☒
Adapter	UGREEN	CD275	N/A	N/A	N/A	☒
RJ45 Cable	UGREEN	N/A	N/A	1.5m	Unshielded with core	☒
HDMI Cable	N/A	N/A	D1	1m	Shielded with Core	☒
RTC battery connector	N/A	N/A	N/A	N/A	N/A	☒
Type-C Cable	N/A	N/A	N/A	0.8m	N/A	☒

4.2 Test Configurations

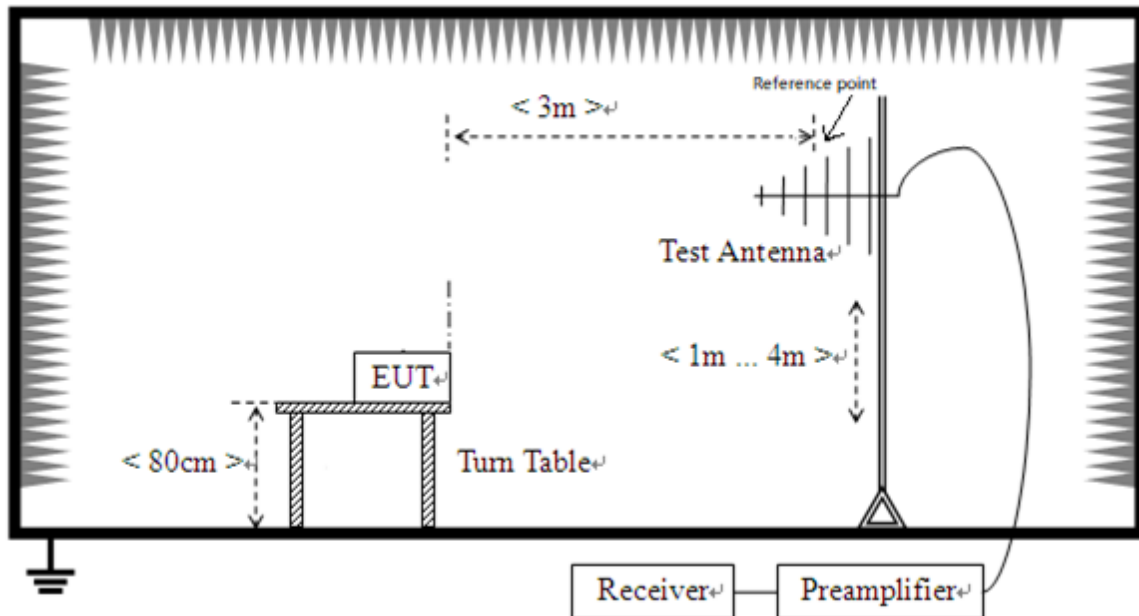
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Stand by Test Mode</u> EUT + Adapter + Type-C Cable + Mouse + Keyboard + HDMI Cable + Display Screen + RJ45 Cable + Laptop + Camera + Fan + M.2 SSD NVMe + Earphone
Mode 2	<u>The Video Play Test Mode</u> EUT + Adapter + Type-C Cable + Mouse + Keyboard + HDMI Cable + Display Screen + RJ45 Cable + Laptop + Camera + Fan + M.2 SSD NVMe + Earphone
Mode 3	<u>The Camera Test Mode</u> EUT + Adapter + Type-C Cable + Mouse + Keyboard + HDMI Cable + Display Screen + RJ45 Cable + Laptop + Camera + Fan + M.2 SSD NVMe + Earphone
Mode 4	<u>The Data Transmission Test Mode</u> EUT + Adapter + Type-C Cable + Mouse + Keyboard + HDMI Cable + Display Screen + RJ45 Cable + Laptop + Camera + Fan + M.2 SSD NVMe + Earphone

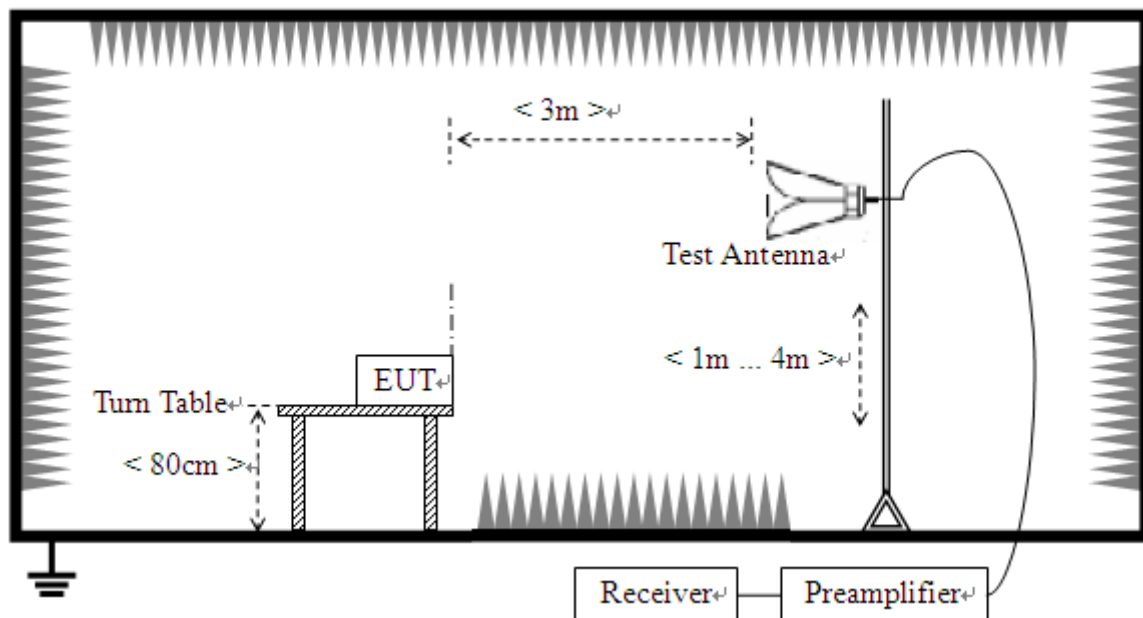
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 4	1
Conducted Emission, AC Ports	Mode 1~Mode 4	1
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

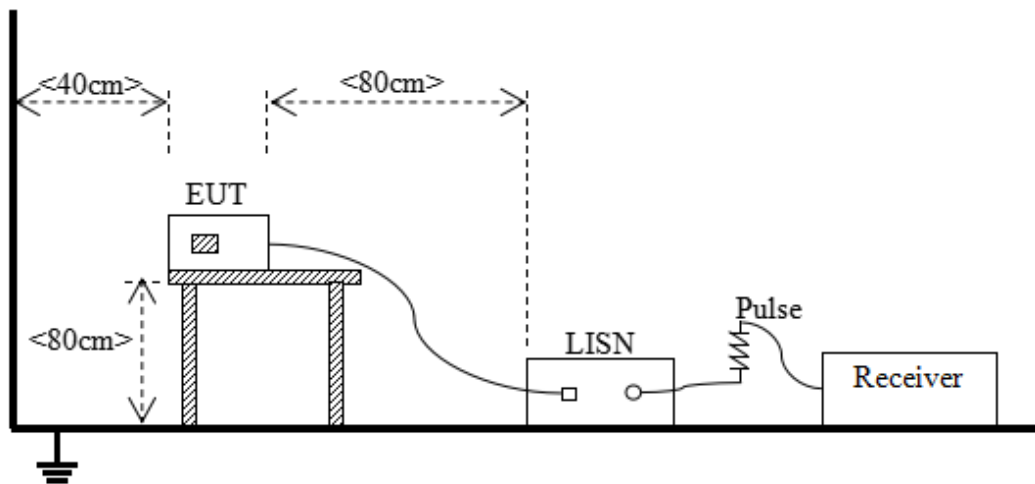
Test Setup 1



Radiated Emission (30 MHz-1 GHz)



Radiated Emission (above 1 GHz)

Test Setup 2

Conducted Emissions, AC Ports

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated Emission

5.1.1.1 Limit

Frequency range (MHz)	Class B (at 3 m)		Class A (at 3 m)
	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)
30 - 88	100	40	49.5
88 - 216	150	43.5	54
216 - 960	200	46	56.9
Above 960	500	54	60

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For 30 MHz to 1000 MHz, the CISPR quasi-peak is employed.

For above 1000 MHz, according to the requirements of FCC 15.35, unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Frequency range (GHz)	Class B (at 3 m)			Class A (at 3 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)
1 - F_M	500	54	74	60	80

Note 1: The highest measurement frequency, F_M , in GHz, shall be determined as next Table.

Note 2: Average Class A limit at 3m L_{3m} is determined by the following conversion formula:

$$L_{3m} = L_{10m} + 20 \cdot \log(d_{10m}/d_{3m})$$
Where:
 L_{3m} is Average Class A limit at 3m;
 L_{10m} is Average Class A limit at 10m;
 d_{10m} is Measurement distance in 10m;
 d_{3m} is Measurement distance in 3m.
For this case: $L_{3m} = 49.5 + 20 \cdot \log(10/3) = 60$ (dB $\mu\text{V/m}$).

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} \leq F_X \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} \leq F_X \leq 1 \text{ GHz}$	5 GHz
$F_X \geq 1 \text{ GHz}$	$5 * F_X$ or 40 GHz, whichever is lower.
Note: F_X is Highest frequency generated or used in the device or on which the device operates or tunes.	

5.1.1.2 Test Setup

Refer to 4.3 section (test setup 1) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

All Radiated Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1 \text{ GHz}$, 100 kHz for $f < 1 \text{ GHz}$

VBW $\geq$ RBW

Sweep = auto

Detector function = peak for $f < 1 \text{ GHz}$, peak & RMS Average for $f \geq 1 \text{ GHz}$

Trace = max hold

5.1.1.4 Test Result and Test Equipment List

Please refer to ANNEX A.1.

NOTE:

1. Results (dB μ V/m) = Reading (dB μ V) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Margin = Limit - Results

5.1.2 Conducted Emission, AC Ports

5.1.2.1 Test Limit

Frequency range (MHz)	Class A	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

5.1.2.2 Test Setup

Refer to 4.3 section test (test setup 2) for conducted emission, the photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

Use the following spectrum analyzer settings:

RBW = 9 kHz

VBW $\geq$ RBW

Sweep = 10ms

Detector function = peak & Average

Trace = max hold

5.1.2.4 Test Result and Test Equipment List

Please refer to ANNEX A.2.

NOTE:

1. Results (dBμV) = Reading (dBμV) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Margin = Limit - Results

ANNEX A TEST RESULTS

A.1 Radiated Emission

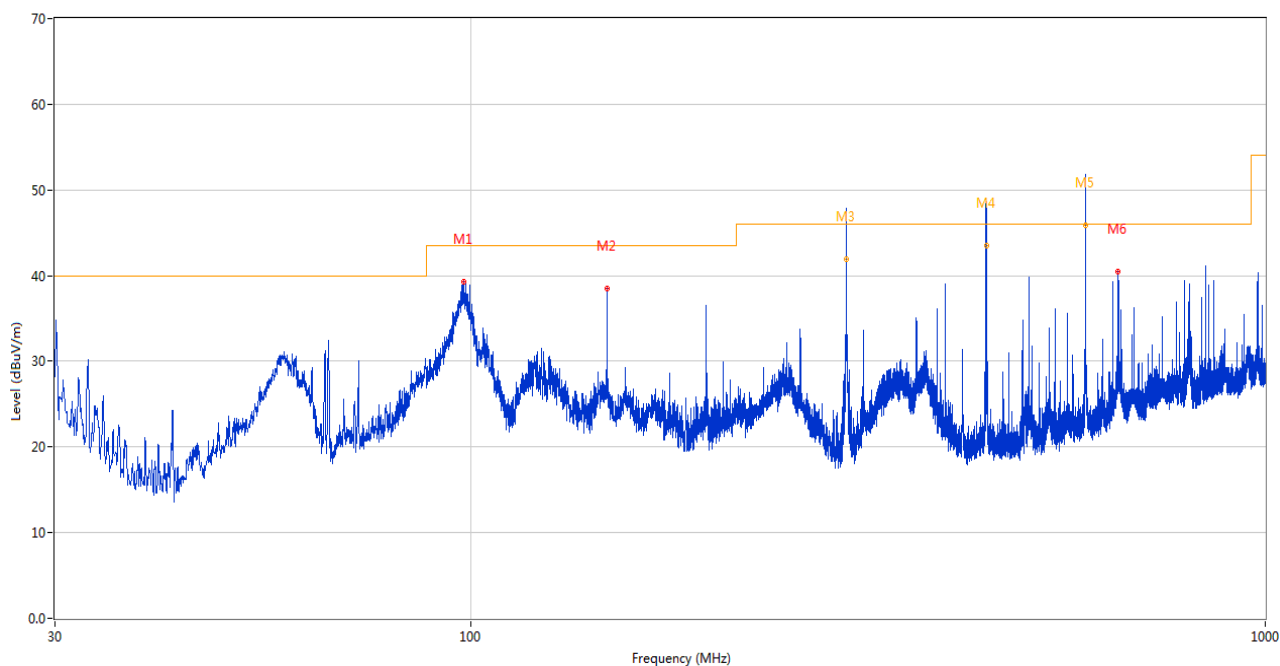
Note 1: The symbol of “--” in the table which means not application.

Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Sample No.	S09 Configurations:8GB + 128GB	Temperature	24.8℃
Humidity	56%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.01.16

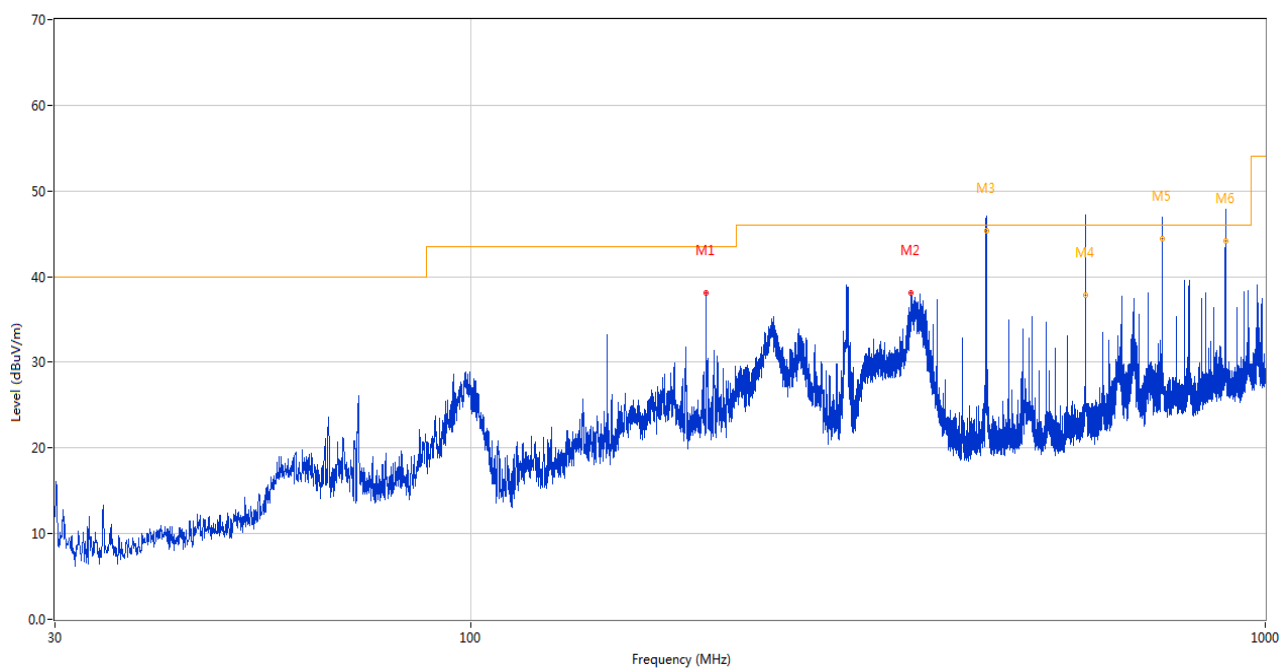
Test Mode 1

1) Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	97.949	39.35	-27.11	43.5	4.15	Peak	358.90	100	Vertical	Pass
2	148.486	38.45	-29.85	43.5	5.05	Peak	189.90	100	Vertical	Pass
3	296.944	47.84	-23.16	46.0	-1.84	Peak	239.40	100	Vertical	N/A
3*	296.944	41.95	-23.16	46.0	4.05	QP	239.40	100	Vertical	Pass
4	445.500	48.62	-19.70	46.0	-2.62	Peak	22.00	100	Vertical	N/A
4*	445.500	43.51	-19.70	46.0	2.49	QP	22.00	100	Vertical	Pass
5	594.006	51.82	-15.33	46.0	-5.82	Peak	330.10	100	Vertical	N/A
5*	594.006	45.90	-15.33	46.0	0.10	QP	330.10	100	Vertical	Pass
6	653.370	40.52	-14.37	46.0	5.48	Peak	64.70	200	Vertical	Pass

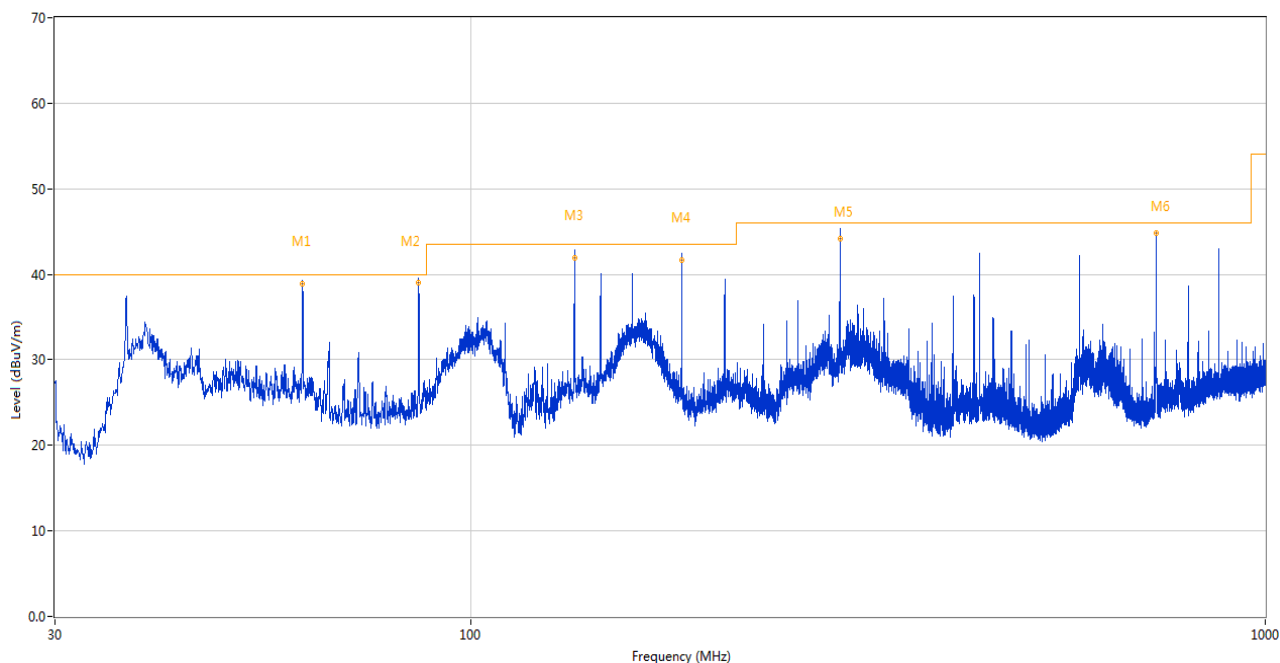
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	198.004	38.12	-25.57	43.5	5.38	Peak	325.70	100	Horizontal	Pass
2	358.539	38.15	-21.97	46.0	7.85	Peak	128.20	100	Horizontal	Pass
3	445.500	47.12	-19.70	46.0	-1.12	Peak	65.50	100	Horizontal	N/A
3*	445.500	45.29	-19.70	46.0	0.71	QP	65.50	100	Horizontal	Pass
4	594.006	48.11	-15.33	46.0	-2.11	Peak	339.70	100	Horizontal	N/A
4*	594.006	37.88	-15.33	46.0	8.12	QP	339.70	100	Horizontal	Pass
5	742.513	47.33	-11.91	46.0	-1.33	Peak	1.80	100	Horizontal	N/A
5*	742.513	44.46	-11.91	46.0	1.54	QP	1.80	100	Horizontal	Pass
6	891.020	48.61	-9.22	46.0	-3.61	Peak	244.00	100	Horizontal	N/A
6*	891.020	44.12	-9.22	46.0	1.88	QP	244.00	100	Horizontal	Pass

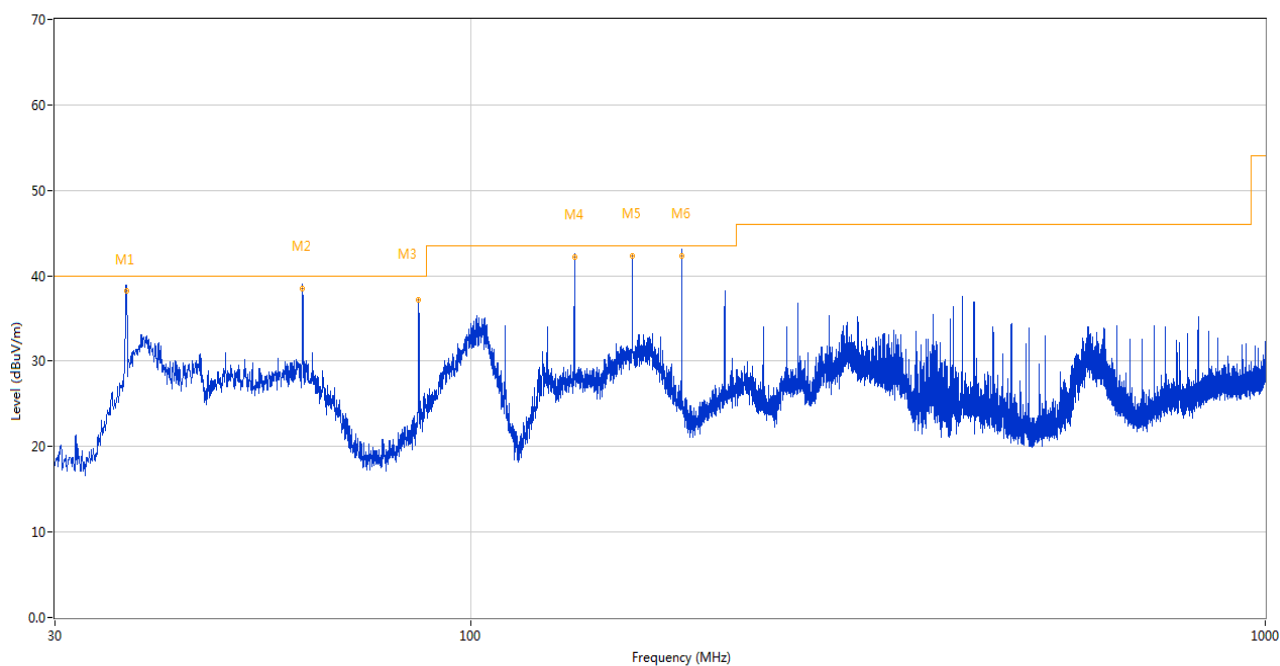
Sample No.	S14 Configurations:4GB + 64GB	Temperature	24.8℃
Humidity	56%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.01.17

3) Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	61.428	39.13	-26.41	40.0	0.87	Peak	139.00	100	Vertical	N/A
1*	61.428	38.90	-26.41	40.0	1.10	QP	139.00	100	Vertical	Pass
2	86.018	39.35	-29.95	40.0	0.65	Peak	306.10	100	Vertical	N/A
2*	86.018	39.02	-29.95	40.0	0.98	QP	306.10	100	Vertical	Pass
3	135.148	41.89	-29.64	43.5	1.11	Peak	341.90	100	Vertical	N/A
3*	135.148	41.98	-29.64	43.5	1.52	QP	341.90	100	Vertical	Pass
4	184.327	42.41	-27.31	43.5	1.09	Peak	293.50	100	Vertical	Pass
4*	184.327	41.67	-27.31	43.5	1.83	QP	293.50	100	Vertical	Pass
5	291.609	44.59	-23.32	46.0	1.41	Peak	241.70	100	Vertical	N/A
5*	291.609	44.14	-23.32	46.0	1.86	QP	241.70	100	Vertical	Pass
6	729.031	45.29	-12.90	46.0	0.71	Peak	162.40	100	Vertical	N/A
6*	729.031	44.78	-12.90	46.0	1.22	QP	162.40	100	Vertical	Pass

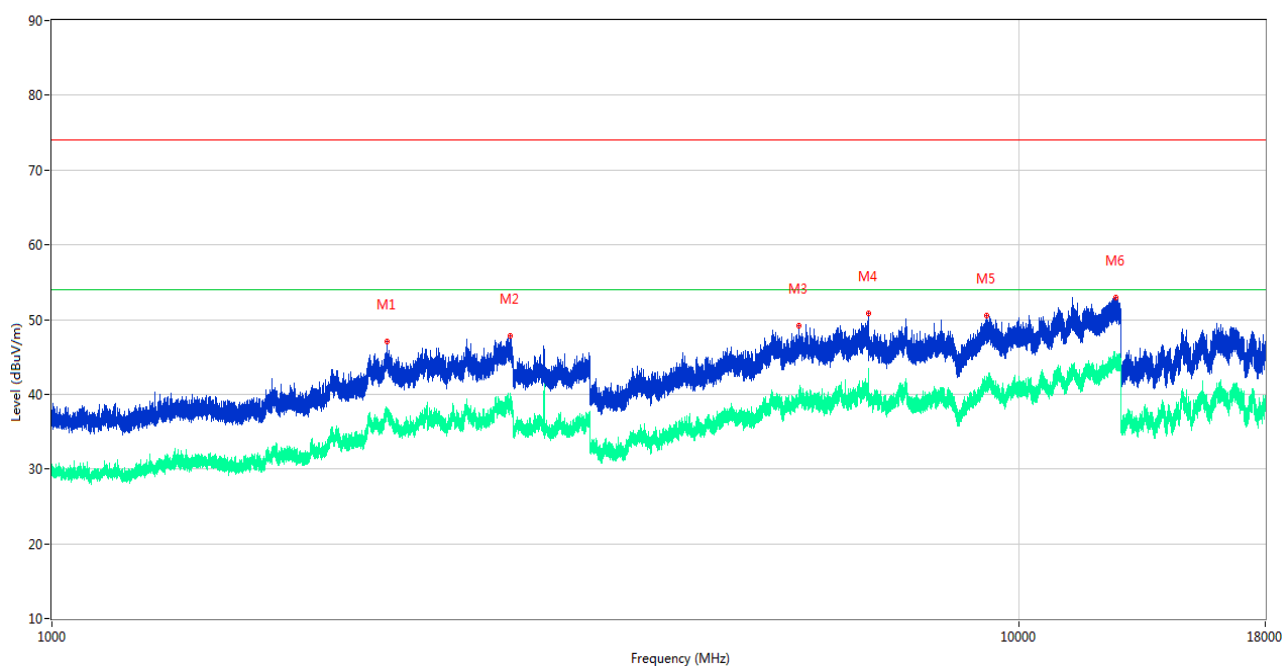
4) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.887	39.36	-27.36	40.0	0.64	Peak	105.10	100	Horizontal	N/A
1*	36.887	38.28	-27.36	40.0	1.72	QP	105.10	100	Horizontal	Pass
2	61.477	39.30	-26.41	40.0	0.70	Peak	126.10	100	Horizontal	N/A
2*	61.477	38.48	-26.41	40.0	1.52	QP	126.10	100	Horizontal	Pass
3	86.018	37.37	-29.95	40.0	2.63	Peak	194.20	100	Horizontal	Pass
3*	86.018	37.22	-29.95	40.0	2.78	QP	194.20	100	Horizontal	Pass
4	135.196	42.55	-29.64	43.5	0.95	Peak	218.20	100	Horizontal	Pass
4*	135.196	42.22	-29.64	43.5	1.28	QP	218.20	100	Horizontal	Pass
5	159.738	42.36	-29.14	43.5	1.14	Peak	2.90	100	Horizontal	N/A
5*	159.738	42.30	-29.14	43.5	1.20	QP	2.90	100	Horizontal	Pass
6	184.327	42.91	-27.31	43.5	0.59	Peak	258.30	100	Horizontal	N/A
6*	184.327	42.36	-27.31	43.5	1.14	QP	258.30	100	Horizontal	Pass

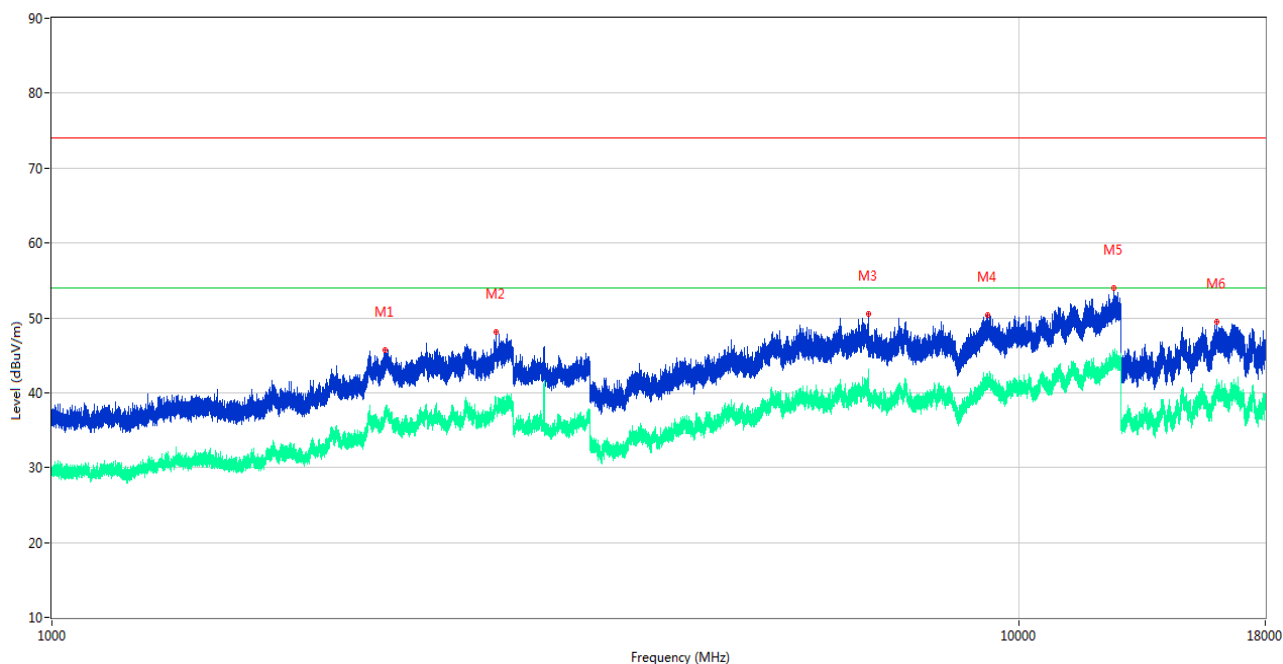
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

5) Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2220.200	47.11	-8.32	74.0	26.89	Peak	25.50	100	Vertical	Pass
1**	2220.200	37.01	-8.32	54.0	16.99	AV	25.50	100	Vertical	Pass
2	2982.700	47.77	-5.56	74.0	26.23	Peak	87.70	100	Vertical	Pass
2**	2982.700	40.07	-5.56	54.0	13.93	AV	87.70	100	Vertical	Pass
3	5928.600	49.15	-1.46	74.0	24.85	Peak	359.50	100	Vertical	Pass
3**	5928.600	39.87	-1.46	54.0	14.13	AV	359.50	100	Vertical	Pass
4	6994.800	50.80	0.32	74.0	23.20	Peak	51.40	100	Vertical	Pass
4**	6994.800	41.99	0.32	54.0	12.01	AV	51.40	100	Vertical	Pass
5	9269.238	50.48	19.95	74.0	23.52	Peak	98.50	100	Vertical	Pass
5**	9269.238	40.88	19.95	54.0	13.12	AV	98.50	100	Vertical	Pass
6	12613.151	52.97	21.44	74.0	21.03	Peak	98.50	100	Vertical	Pass
6**	12613.151	43.79	21.44	54.0	10.21	AV	98.50	100	Vertical	Pass

6) Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2212.400	45.78	-9.11	74.0	28.22	Peak	56.10	100	Horizontal	Pass
1**	2212.400	37.09	-9.11	54.0	16.91	AV	56.10	100	Horizontal	Pass
2	2881.600	48.17	-6.36	74.0	25.83	Peak	186.20	100	Horizontal	Pass
2**	2881.600	38.19	-6.36	54.0	15.81	AV	186.20	100	Horizontal	Pass
3	6994.600	50.59	0.30	74.0	23.41	Peak	257.20	100	Horizontal	Pass
3**	6994.600	42.20	0.30	54.0	11.80	AV	257.20	100	Horizontal	Pass
4	9293.674	50.43	19.90	74.0	23.57	Peak	312.30	100	Horizontal	Pass
4**	9293.674	40.97	19.90	54.0	13.03	AV	312.30	100	Horizontal	Pass
5	12542.137	54.06	21.71	74.0	19.94	Peak	197.90	100	Horizontal	Pass
5**	12542.137	44.22	21.71	54.0	9.78	AV	197.90	100	Horizontal	Pass
6	16044.375	49.54	25.78	74.0	24.46	Peak	264.70	100	Horizontal	Pass
6**	16044.375	40.88	25.78	54.0	13.12	AV	264.70	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2024.11.28	2025.11.27	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2024.11.28	2025.11.27	☒
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

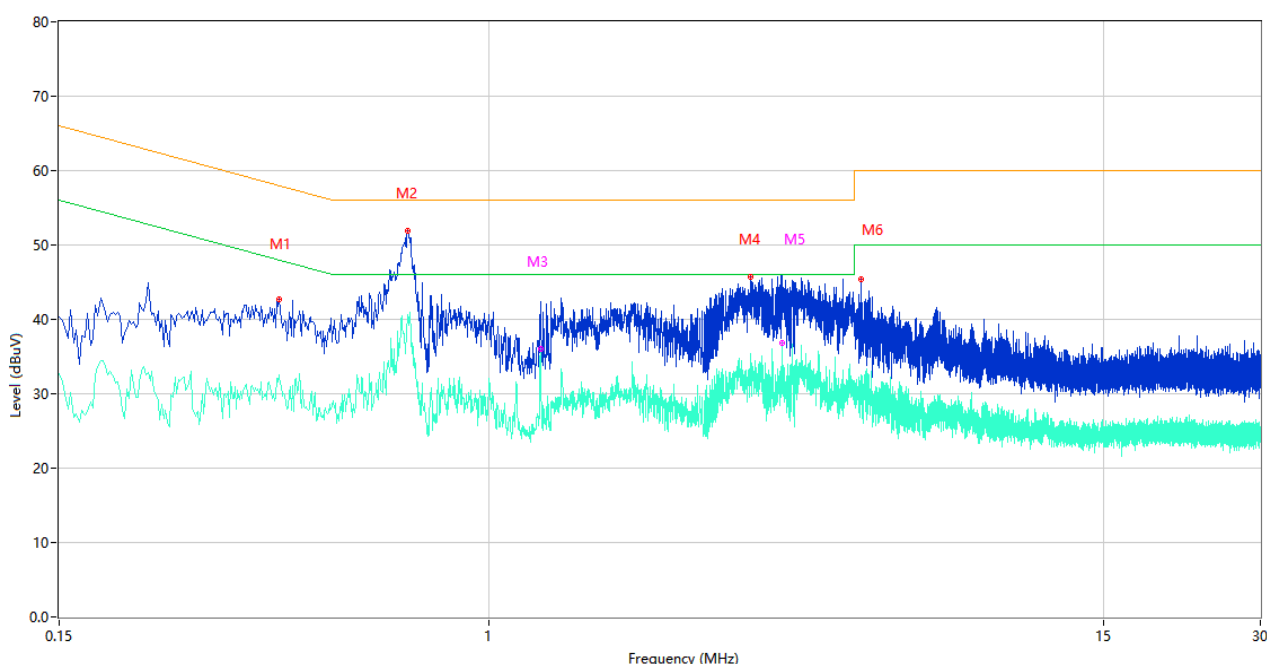
A.2 Conducted Emission, AC Ports

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Sample No.	S09	Temperature	18.8℃
Humidity	51%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.12.25

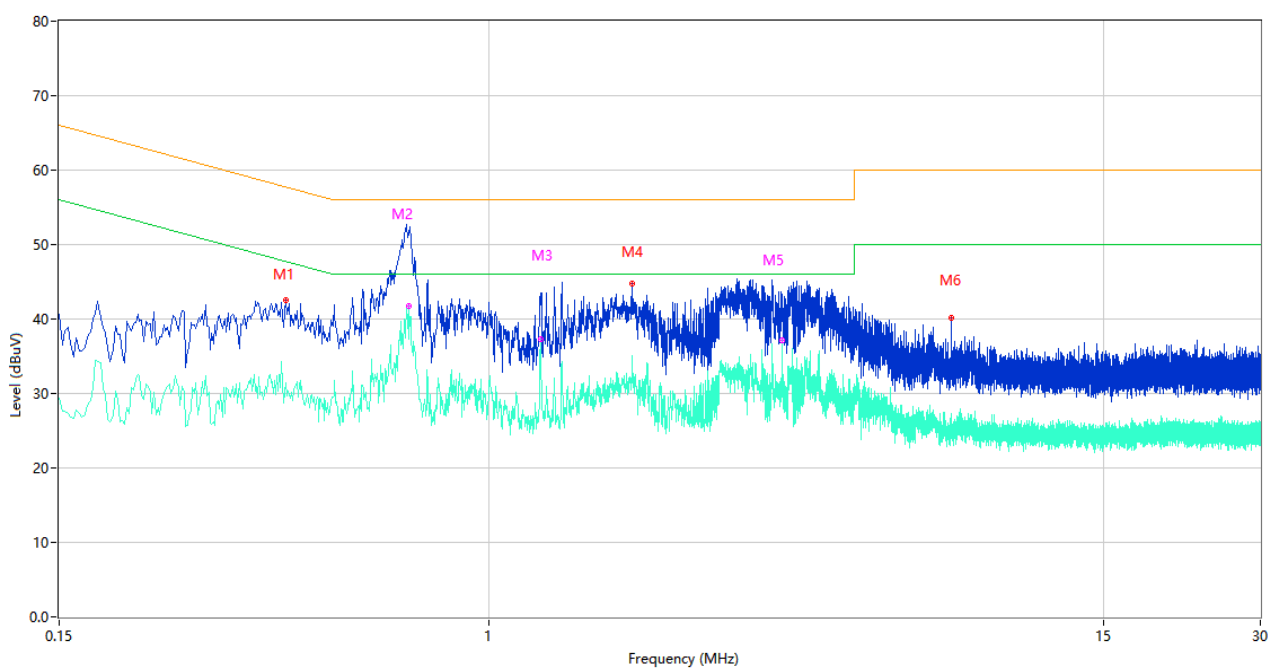
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.396	42.70	10.57	57.94	15.24	Peak	L	Pass
1**	0.396	32.61	10.57	47.94	15.33	AV	L	Pass
2	0.698	51.94	10.64	56.00	4.06	Peak	L	Pass
2**	0.698	40.71	10.64	46.00	5.29	AV	L	Pass
3	1.256	42.35	10.45	56.00	13.65	Peak	L	Pass
3**	1.256	35.98	10.45	46.00	10.02	AV	L	Pass
4	3.168	45.78	10.12	56.00	10.22	Peak	L	Pass
4**	3.168	35.34	10.12	46.00	10.66	AV	L	Pass
5	3.644	44.99	10.41	56.00	11.01	Peak	L	Pass
5**	3.644	36.76	10.41	46.00	9.24	AV	L	Pass
6	5.168	45.46	10.20	60.00	14.54	Peak	L	Pass
6**	5.168	30.04	10.20	50.00	19.96	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.408	42.47	10.47	57.69	15.22	Peak	N	Pass
1**	0.408	31.49	10.47	47.69	16.20	AV	N	Pass
2	0.702	51.50	10.63	56.00	4.50	Peak	N	Pass
2**	0.702	41.80	10.63	46.00	4.20	AV	N	Pass
3	1.254	41.91	10.45	56.00	14.09	Peak	N	Pass
3**	1.254	37.38	10.45	46.00	8.62	AV	N	Pass
4	1.878	44.75	10.49	56.00	11.25	Peak	N	Pass
4**	1.878	35.09	10.49	46.00	10.91	AV	N	Pass
5	3.646	43.21	10.41	56.00	12.79	Peak	N	Pass
5**	3.646	37.18	10.41	46.00	8.82	AV	N	Pass
6	7.676	40.21	10.61	60.00	19.79	Peak	N	Pass
6**	7.676	27.24	10.61	50.00	22.76	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31	☒
LISN	SCHWARZB ECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	☒
ISN	TESEQ	ISN T800	34449	2024.11.06	2025.11.05	☐
ISN	TESEQ	ISN T8-Cat6	53561	2024.04.24	2025.04.23	☐
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2. 8m	112	2022.02.19	2025.02.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ24C0728-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24C0728-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24C0728-AI.PDF”.

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--END OF REPORT--