

TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Tablet Computer
Model Name: 2505DRP06G
Brand Name: Redmi
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
FCC ID 2AFZZRP06G
Sample Arrival Date: Feb. 05, 2025
Test Date: Feb. 07, 2025 - Feb. 10, 2025
Date of Issue: Mar. 12, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li Junfeng**Checked by:** Liu Zhenxiang**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Mar. 12, 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	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet Computer
Model Name Under Test	2505DRP06G
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135100O84X
Software Version	Xiaomi HyperOS 2.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S26, S27, S28
IMEI Number	S26: IMEI1:869433070027068, IMEI2:869433070027076 S28: IMEI1:869433070020220, IMEI2:869433070020238 S27: IMEI1:869433070017200, IMEI2:869433070017218

2.4 Ancillary Equipment

Please refer the document "BL-SZ2510527-AW EUT external photo.pdf".

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5/6/8/19 4G Network FDD LTE Band 1/2/3/4/5/7/8/13/18/19/20/26/28/66 TDD LTE Band 38/40/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, Galileo, BDS, QZSS, FM Receiver
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
Laptop	Lenovo	N/A	N/A	N/A	N/A	☒
Laptop	HONOR	KPRC-W10	N/A	N/A	N/A	☒
Data connector	HBR	type-c to USB 3.0	N/A	N/A	N/A	☒
USB disk	Sandisk	CZ73-32G	N/A	N/A	32G	☒
TYPE-C Headset	N/A	MH156	N/A	1.12m	N/A	☒
Headset	Xiaomi	EM023	N/A	1.25m	N/A	☒
TF Card	Samsung	MB-MD256KA	N/A	N/A	256G	☒
Wireless Communications Test Set	R&S	CMW500	102318	N/A	Cal. Due 2025.05.08	☒

4.2 Test Configurations

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

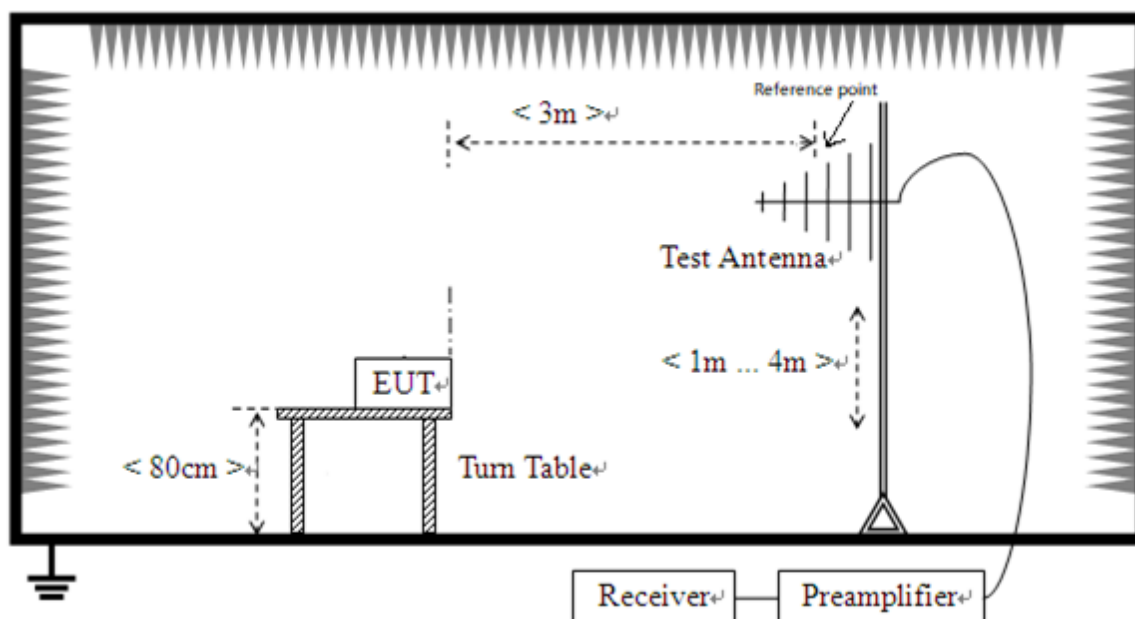
Test Mode Configuration	Description
Mode 1	<u>The Charging Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 2	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 3	<u>The Back Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 4	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 5	<u>The GSM850 RX Test Mode</u> GSM850 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 6	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 7	<u>The LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 8	<u>The LTE Band 13 RX Test Mode</u> LTE Band 13 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 9	<u>The LTE Band 26 RX Test Mode</u> LTE Band 26 RX + EUT +Adapter + USB Cable + Battery + Headset + TF

	Card
Mode 10	<u>The FM Test Mode</u> FM RX + EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 11	<u>The Video Display Test Mode with internal speaker</u> EUT + Battery
Mode 12	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + Headset + TF Card
Mode 13	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB disk + Headset + TF Card
Mode 14	<u>The Type-C Headset Test Mode</u> EUT + Battery + TYPE-C Headset

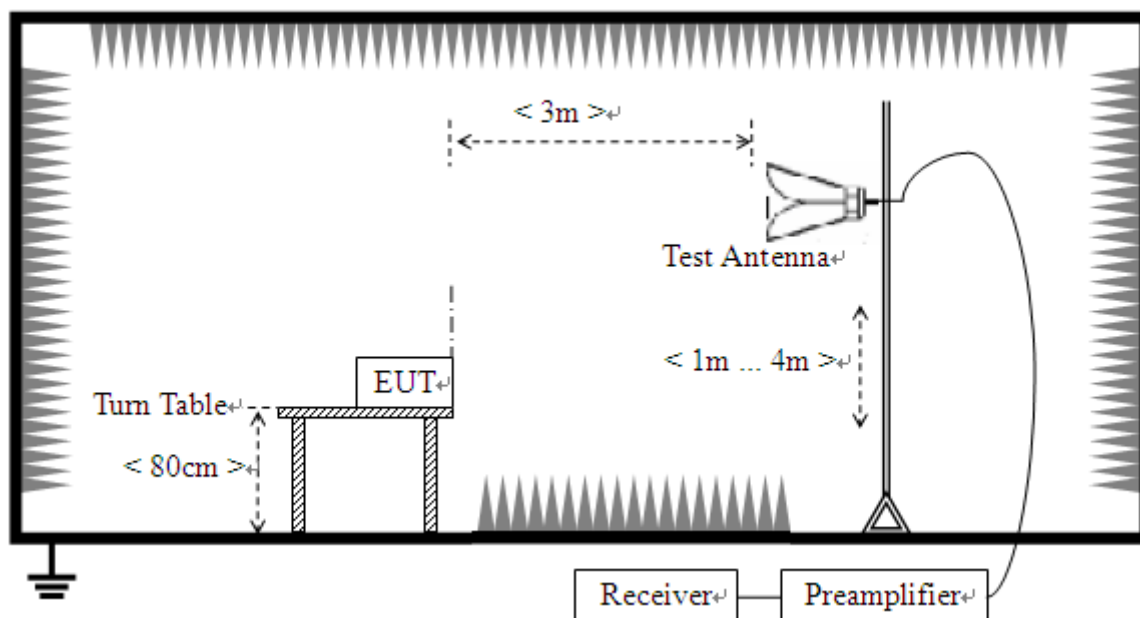
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 14	4, 12
Conducted Emission, AC Ports	Mode 1~Mode 10, Mode 12	4, 12
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

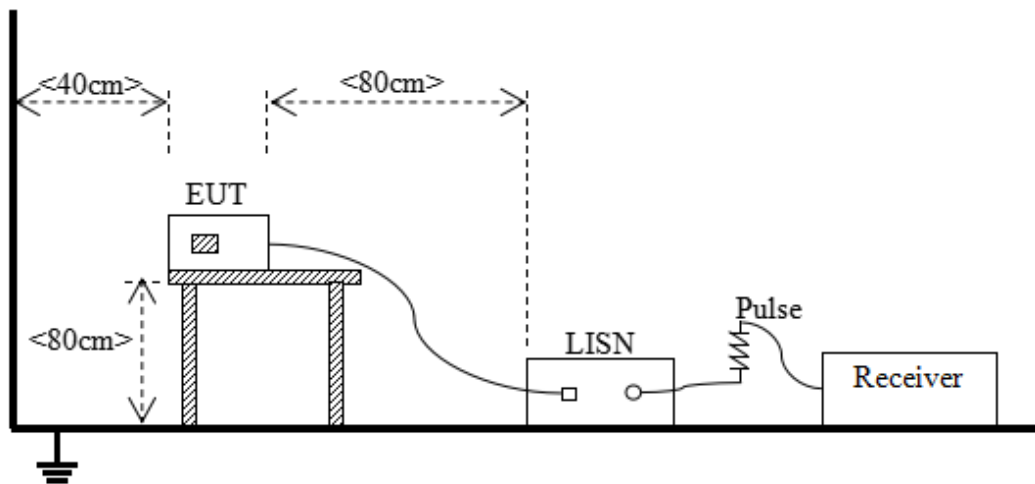
Test Setup 1



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 (dB μ V) = Reading (dB μ V) + 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.

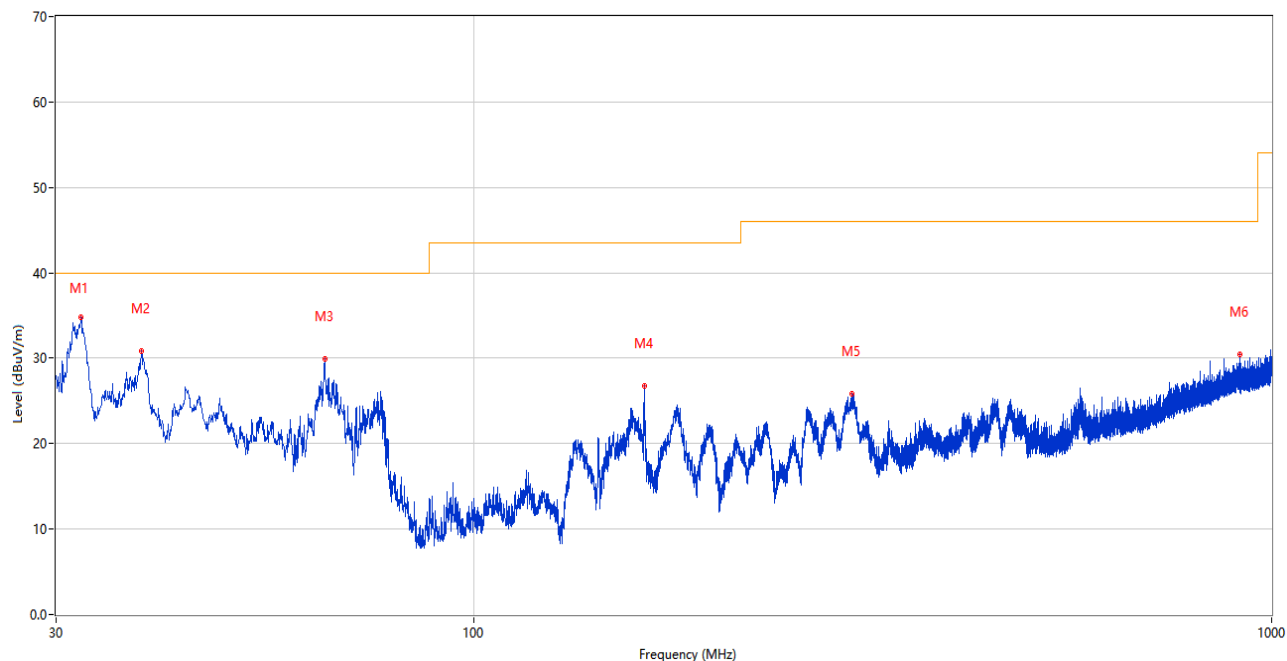
Note 3: When the EUT is on, it will automatically emit Bluetooth signal and cannot be turned off. So the marked spikes near 2400 MHz with circle should be ignored because they are Bluetooth carrier frequencies.

Note 4: The Radiated Emission is required to be investigated to the upper frequency of 5th harmonic of the highest internal frequency of EUT or 40 GHz, whichever is lower. The test results above 18GHz are only noise and are not recorded in the report.

Sample No.	S28	Temperature	23.2℃
Humidity	41%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.02.08

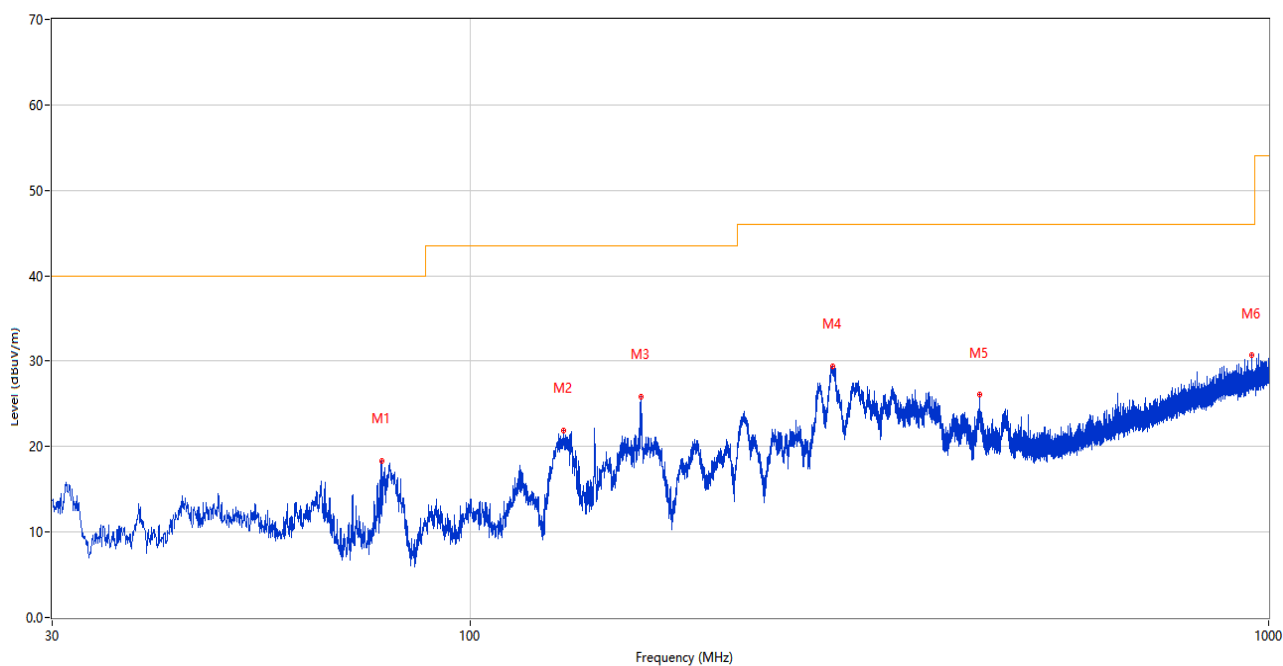
Test Mode 4

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	32.231	34.75	-29.18	40.0	5.25	Peak	107.00	100	Vertical	Pass
2	38.391	30.91	-26.18	40.0	9.09	Peak	282.00	100	Vertical	Pass
3	65.162	29.96	-27.04	40.0	10.04	Peak	170.00	100	Vertical	Pass
4	163.714	26.79	-29.31	43.5	16.71	Peak	0.00	100	Vertical	Pass
5	298.156	25.83	-23.57	46.0	20.17	Peak	325.00	100	Vertical	Pass
6	911.487	30.41	-9.79	46.0	15.59	Peak	270.00	200	Vertical	Pass

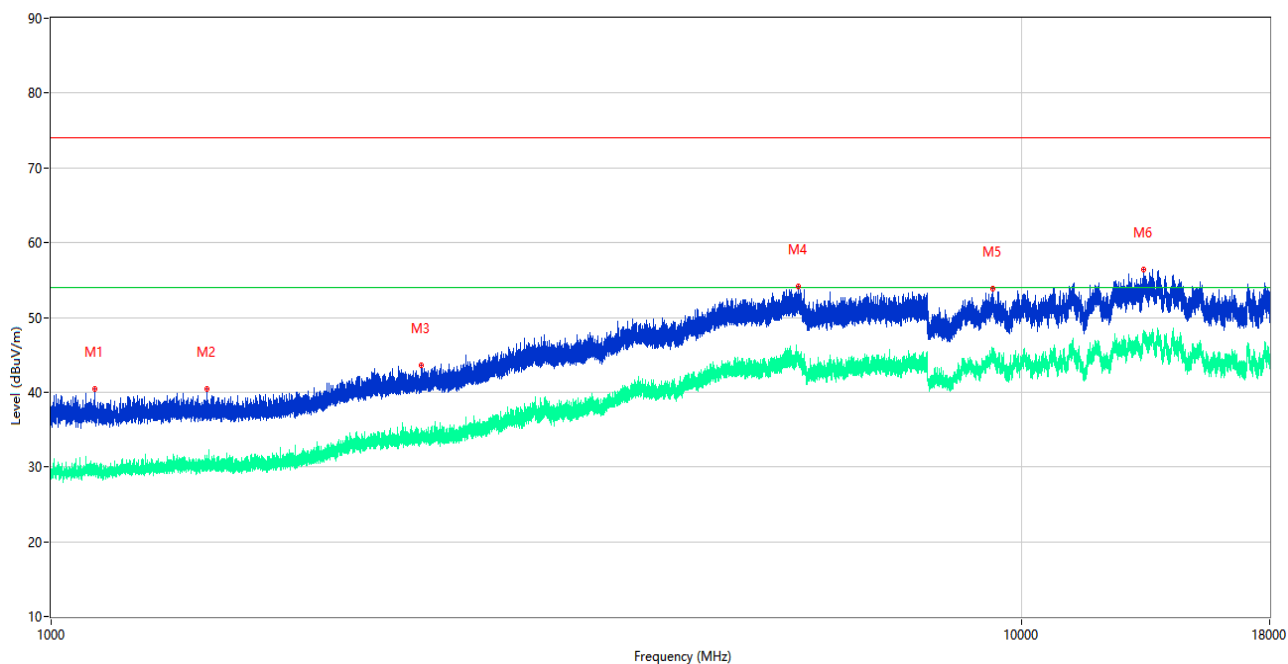
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	77.530	18.32	-31.00	40.0	21.68	Peak	289.00	200	Horizontal	Pass
2	131.025	21.83	-29.91	43.5	21.67	Peak	135.00	200	Horizontal	Pass
3	163.666	25.80	-29.30	43.5	17.70	Peak	98.00	200	Horizontal	Pass
4	284.674	29.36	-24.09	46.0	16.64	Peak	42.00	100	Horizontal	Pass
5	434.345	26.04	-20.08	46.0	19.96	Peak	221.00	100	Horizontal	Pass
6	952.664	30.72	-9.26	46.0	15.28	Peak	55.00	100	Horizontal	Pass

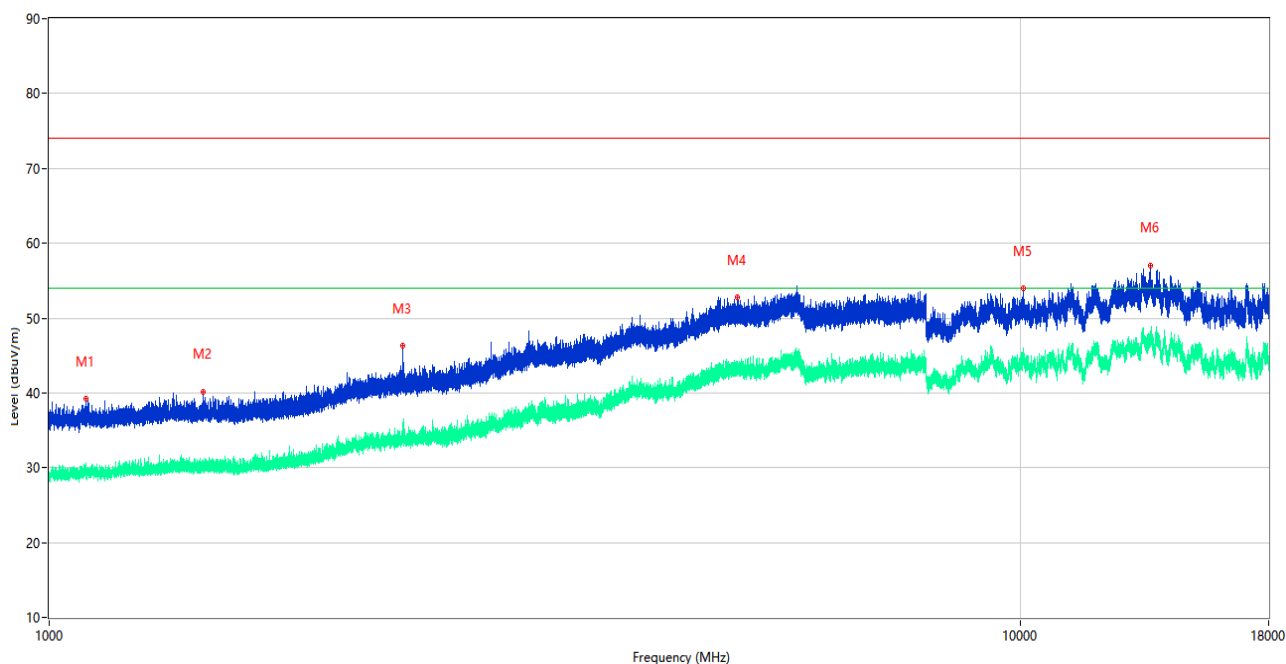
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	/		☒

3) 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	1109.590	40.44	-15.67	74.0	33.56	Peak	1.00	100	Vertical	Pass
1**	1109.590	29.06	-15.67	54.0	24.94	AV	1.00	100	Vertical	Pass
2	1445.770	40.46	-15.50	74.0	33.54	Peak	101.00	100	Vertical	Pass
2**	1445.770	30.41	-15.50	54.0	23.59	AV	101.00	100	Vertical	Pass
3	2405.560	43.60	-11.45	74.0	30.40	Peak	306.00	100	Vertical	Pass
3**	2405.560	33.90	-11.45	54.0	20.10	AV	306.00	100	Vertical	Pass
4	5880.520	54.07	2.38	74.0	19.93	Peak	192.00	100	Vertical	Pass
4**	5880.520	44.27	2.38	54.0	9.73	AV	192.00	100	Vertical	Pass
5	9328.500	53.80	2.17	74.0	20.20	Peak	162.00	100	Vertical	Pass
5**	9328.500	44.93	2.17	54.0	9.07	AV	162.00	100	Vertical	Pass
6	13357.500	56.38	5.18	74.0	17.62	Peak	136.00	100	Vertical	Pass
6**	13357.500	47.52	5.18	54.0	6.48	AV	136.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



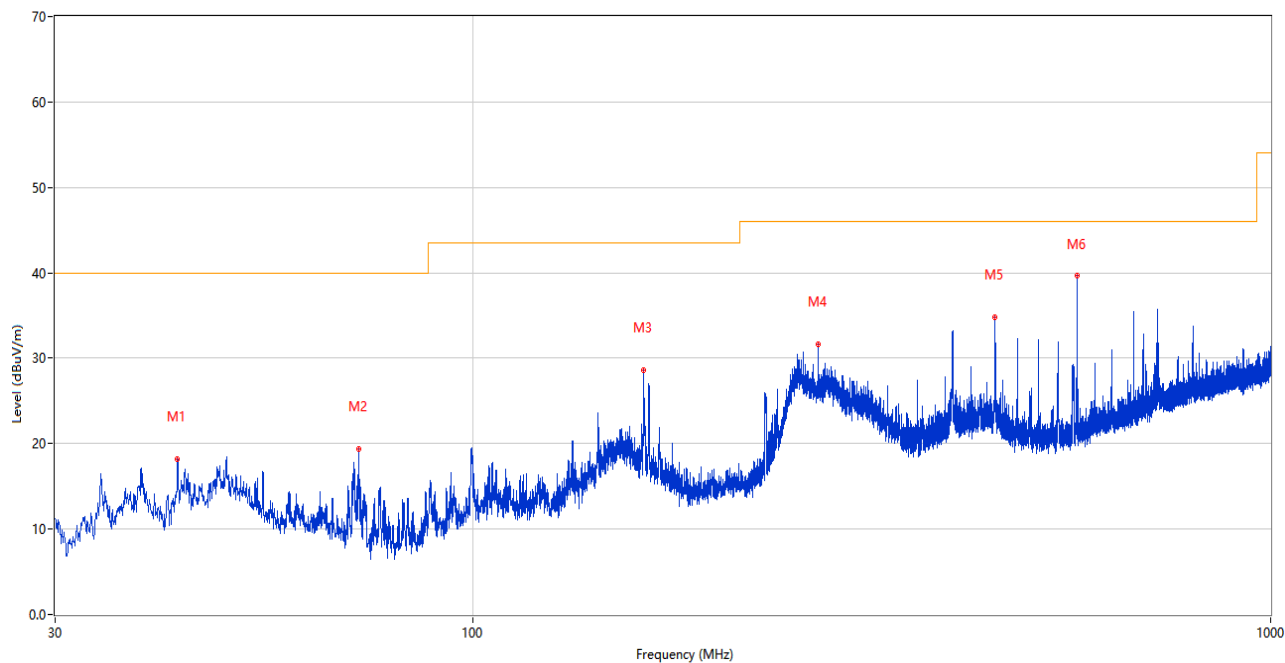
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1090.350	39.27	-15.82	74.0	34.73	Peak	313.00	100	Horizontal	Pass
1**	1090.350	28.81	-15.82	54.0	25.19	AV	313.00	100	Horizontal	Pass
2	1440.050	40.20	-15.51	74.0	33.80	Peak	186.00	100	Horizontal	Pass
2**	1440.050	29.49	-15.51	54.0	24.51	AV	186.00	100	Horizontal	Pass
3	2311.310	46.26	-11.19	74.0	27.74	Peak	242.00	100	Horizontal	Pass
3**	2311.310	34.87	-11.19	54.0	19.13	AV	242.00	100	Horizontal	Pass
4	5105.240	52.80	-0.06	74.0	21.20	Peak	277.00	100	Horizontal	Pass
4**	5105.240	42.77	-0.06	54.0	11.23	AV	277.00	100	Horizontal	Pass
5	10056.500	54.02	2.48	74.0	19.98	Peak	91.00	100	Horizontal	Pass
5**	10056.500	44.98	2.48	54.0	9.02	AV	91.00	100	Horizontal	Pass
6	13614.500	57.07	4.83	74.0	16.93	Peak	51.00	100	Horizontal	Pass
6**	13614.500	46.85	4.83	54.0	7.15	AV	51.00	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	/		☒

Sample No.	S28	Temperature	23.2℃
Humidity	41%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.02.08

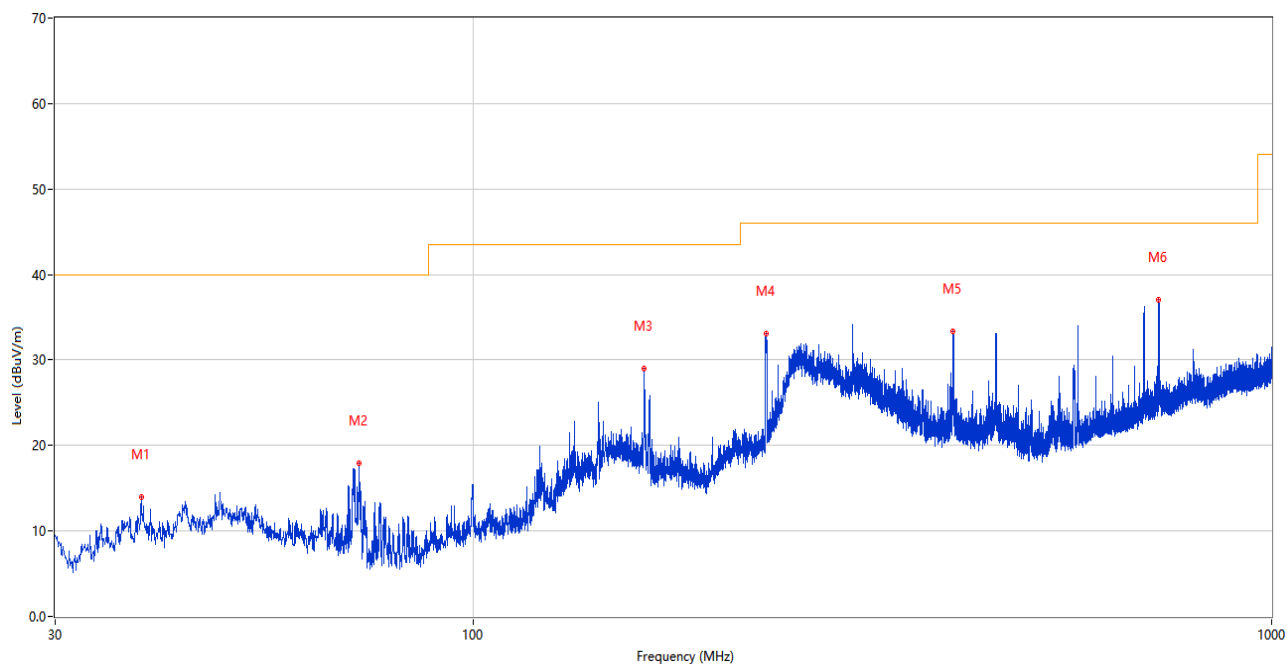
Test Mode 12

5) 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	42.707	18.18	-25.61	40.0	21.82	Peak	49.00	100	Vertical	Pass
2	72.001	19.42	-29.39	40.0	20.58	Peak	181.00	100	Vertical	Pass
3	163.908	28.63	-29.32	43.5	14.87	Peak	360.00	100	Vertical	Pass
4	270.851	31.64	-24.59	46.0	14.36	Peak	359.00	200	Vertical	Pass
5	451.368	34.85	-19.87	46.0	11.15	Peak	156.00	100	Vertical	Pass
6	572.182	39.63	-16.92	46.0	6.37	Peak	149.00	100	Vertical	Pass

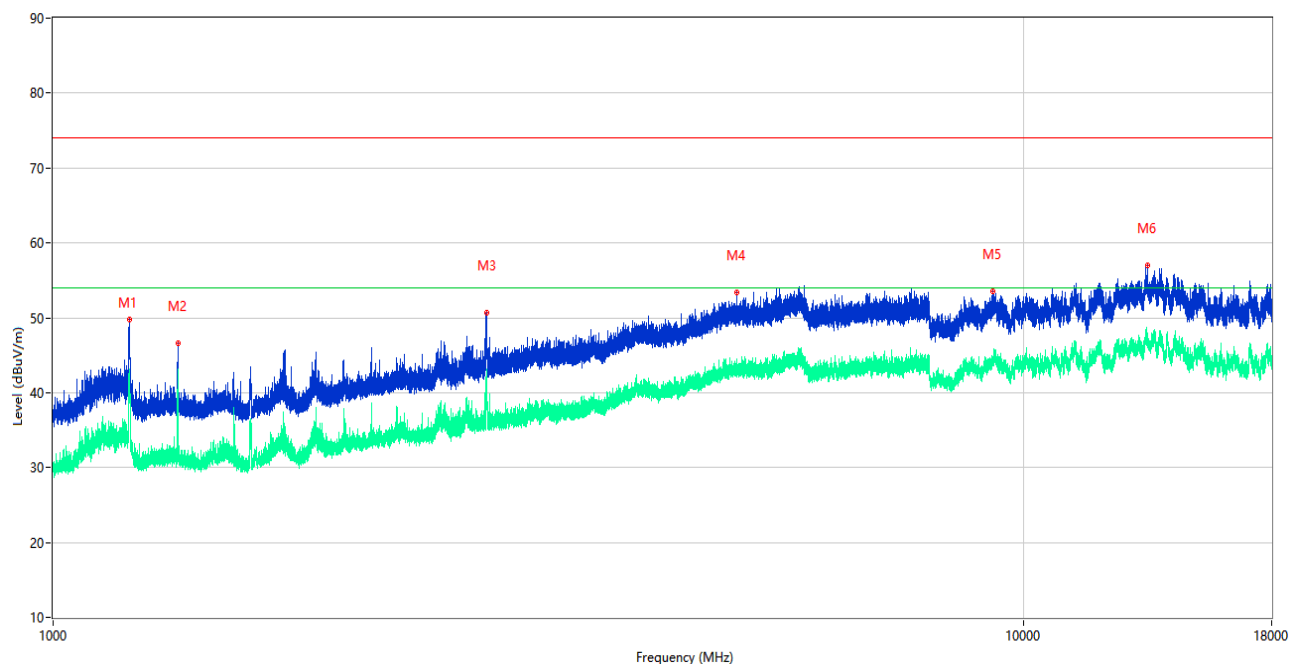
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.439	13.99	-26.03	40.0	26.01	Peak	134.00	200	Horizontal	Pass
2	72.001	17.91	-29.39	40.0	22.09	Peak	233.00	200	Horizontal	Pass
3	163.957	29.03	-29.32	43.5	14.47	Peak	73.00	200	Horizontal	Pass
4	233.264	33.05	-25.41	46.0	12.95	Peak	30.00	200	Horizontal	Pass
5	399.425	33.39	-21.11	46.0	12.61	Peak	214.00	100	Horizontal	Pass
6	722.483	37.06	-13.51	46.0	8.94	Peak	121.00	100	Horizontal	Pass

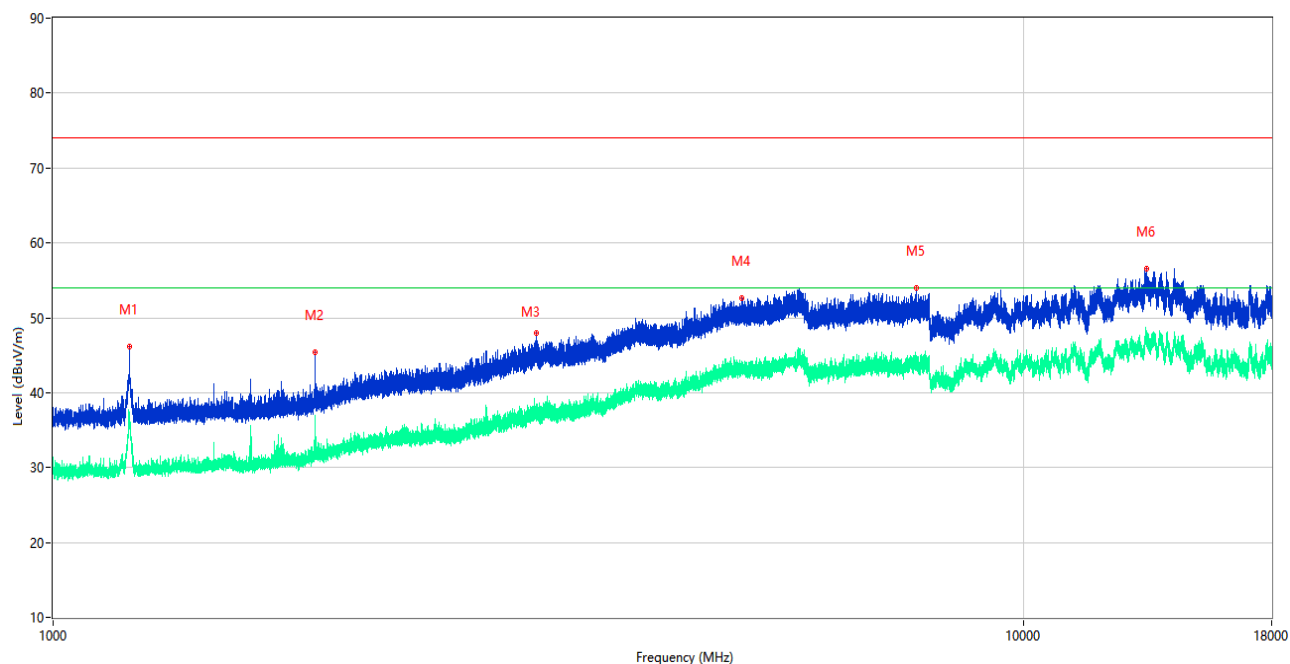
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	/		☒

7) 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	1198.120	49.78	-15.75	74.0	24.22	Peak	191.00	100	Vertical	Pass
1**	1198.120	39.59	-15.75	54.0	14.41	AV	191.00	100	Vertical	Pass
2	1344.240	46.58	-15.51	74.0	27.42	Peak	201.00	100	Vertical	Pass
2**	1344.240	42.72	-15.51	54.0	11.28	AV	201.00	100	Vertical	Pass
3	2795.690	50.71	-8.36	74.0	23.29	Peak	156.00	100	Vertical	Pass
3**	2795.690	41.29	-8.36	54.0	12.71	AV	156.00	100	Vertical	Pass
4	5056.400	53.37	-0.19	74.0	20.63	Peak	231.00	100	Vertical	Pass
4**	5056.400	42.02	-0.19	54.0	11.98	AV	231.00	100	Vertical	Pass
5	9280.500	53.50	1.91	74.0	20.50	Peak	349.00	100	Vertical	Pass
5**	9280.500	43.87	1.91	54.0	10.13	AV	349.00	100	Vertical	Pass
6	13406.500	57.02	4.82	74.0	16.98	Peak	349.00	100	Vertical	Pass
6**	13406.500	47.93	4.82	54.0	6.07	AV	349.00	100	Vertical	Pass

8) 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	1199.680	46.11	-15.77	74.0	27.89	Peak	135.00	100	Horizontal	Pass
1**	1199.680	37.31	-15.77	54.0	16.69	AV	135.00	100	Horizontal	Pass
2	1863.330	45.42	-14.40	74.0	28.58	Peak	161.00	100	Horizontal	Pass
2**	1863.330	31.67	-14.40	54.0	22.33	AV	161.00	100	Horizontal	Pass
3	3143.440	47.90	-6.32	74.0	26.10	Peak	145.00	100	Horizontal	Pass
3**	3143.440	37.67	-6.32	54.0	16.33	AV	145.00	100	Horizontal	Pass
4	5124.600	52.58	-0.17	74.0	21.42	Peak	4.00	100	Horizontal	Pass
4**	5124.600	43.30	-0.17	54.0	10.70	AV	4.00	100	Horizontal	Pass
5	7748.540	53.97	0.42	74.0	20.03	Peak	294.00	100	Horizontal	Pass
5**	7748.540	44.74	0.42	54.0	9.26	AV	294.00	100	Horizontal	Pass
6	13369.500	56.55	5.10	74.0	17.45	Peak	334.00	100	Horizontal	Pass
6**	13369.500	47.37	5.10	54.0	6.63	AV	334.00	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	/		☒

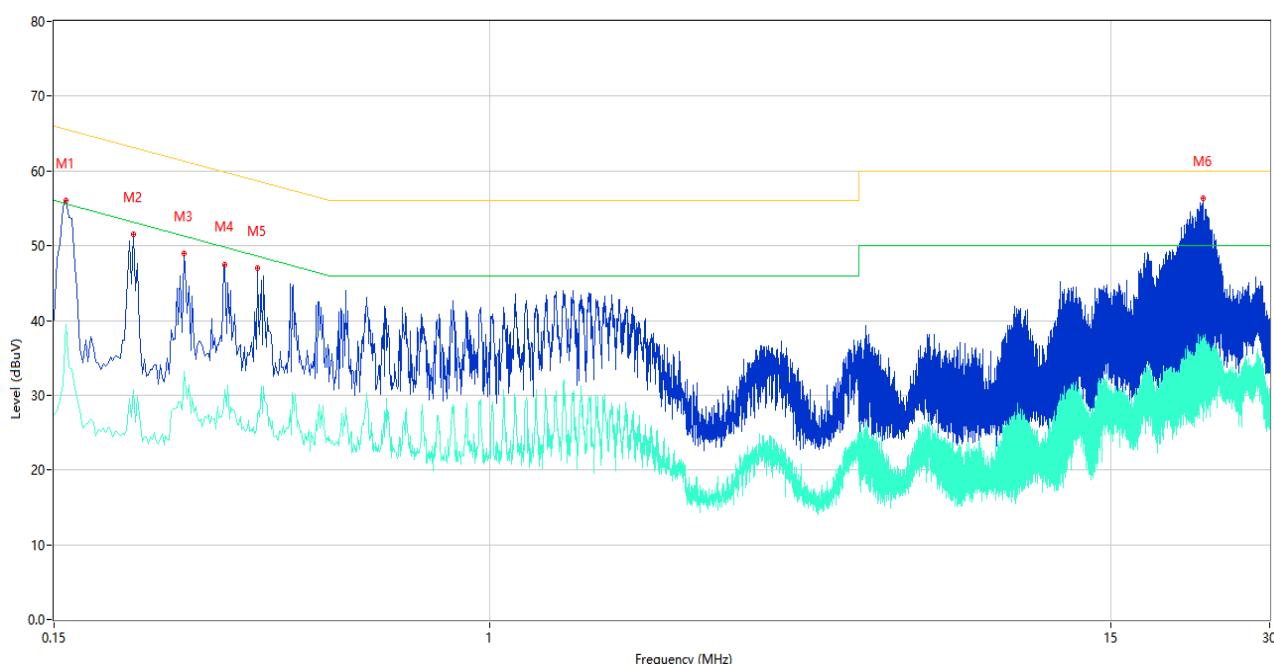
A.2 Conducted Emission, AC Ports

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.	S28	Temperature	20.7℃
Humidity	39%RH	Pressure	101kPa
Test Engineer	Yangyang	Test Date	2025.02.08

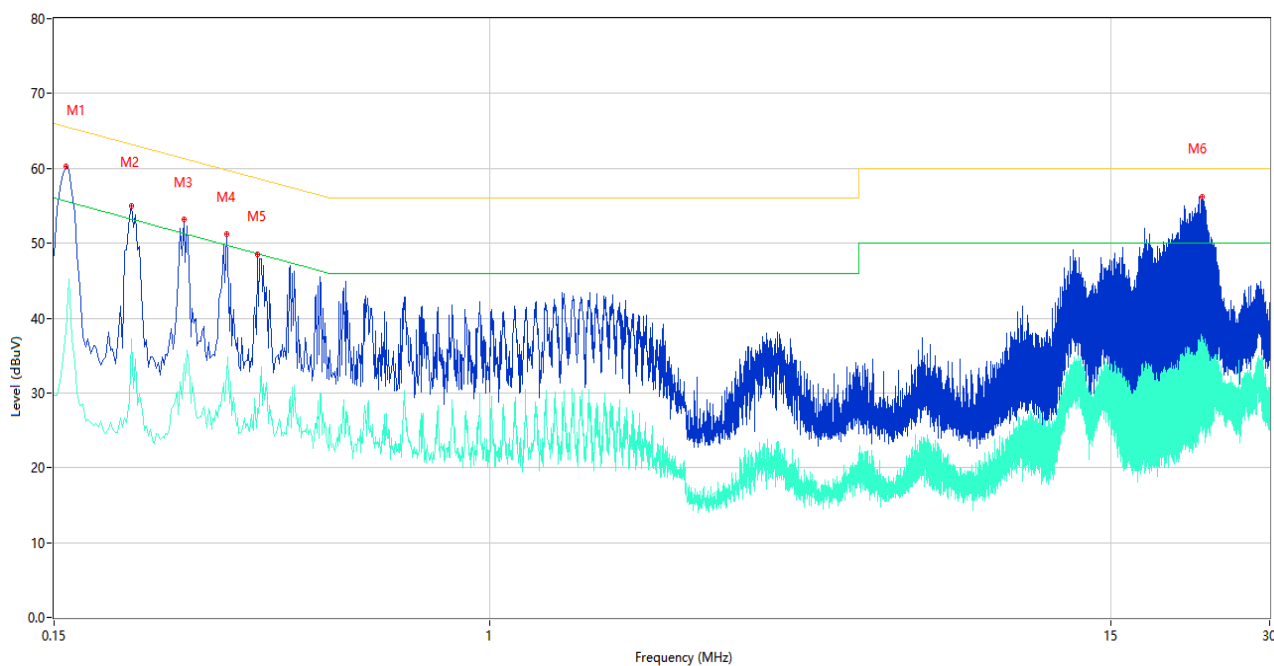
Test Mode 4

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	56.03	10.10	65.57	9.54	Peak	L	Pass
1**	0.158	39.53	10.10	55.57	16.04	AV	L	Pass
2	0.212	51.46	10.03	63.13	11.67	Peak	L	Pass
2**	0.212	30.74	10.03	53.13	22.39	AV	L	Pass
3	0.264	48.94	10.03	61.30	12.36	Peak	L	Pass
3**	0.264	33.14	10.03	51.30	18.16	AV	L	Pass
4	0.316	47.52	10.01	59.81	12.29	Peak	L	Pass
4**	0.316	30.71	10.01	49.81	19.10	AV	L	Pass
5	0.364	47.00	10.13	58.64	11.64	Peak	L	Pass
5**	0.364	27.26	10.13	48.64	21.38	AV	L	Pass
6	22.428	56.32	15.32	60.00	3.68	Peak	L	Pass
6**	22.428	35.78	15.32	50.00	14.22	AV	L	Pass

2) AC Ports - N Phase

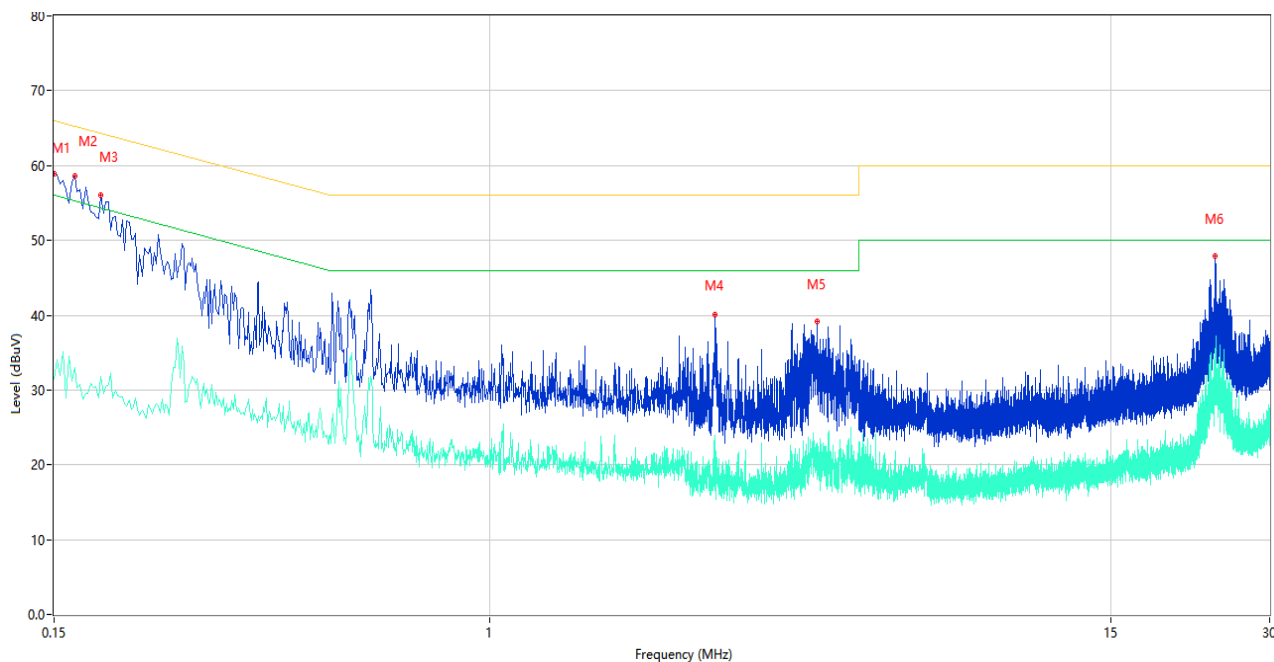


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	60.31	10.10	65.57	5.26	Peak	N	Pass
1**	0.158	38.31	10.10	55.57	17.26	AV	N	Pass
2	0.210	54.96	10.03	63.21	8.25	Peak	N	Pass
2**	0.210	37.27	10.03	53.21	15.94	AV	N	Pass
3	0.264	53.15	10.03	61.30	8.15	Peak	N	Pass
3**	0.264	33.96	10.03	51.30	17.34	AV	N	Pass
4	0.318	51.16	10.00	59.76	8.60	Peak	N	Pass
4**	0.318	32.60	10.00	49.76	17.16	AV	N	Pass
5	0.364	48.56	10.13	58.64	10.08	Peak	N	Pass
5**	0.364	27.86	10.13	48.64	20.78	AV	N	Pass
6	22.366	56.22	15.51	60.00	3.78	Peak	N	Pass
6**	22.366	37.49	15.51	50.00	12.51	AV	N	Pass

Sample No.	S26	Temperature	20.7℃
Humidity	39%RH	Pressure	101kPa
Test Engineer	Yangyang	Test Date	2025.02.08

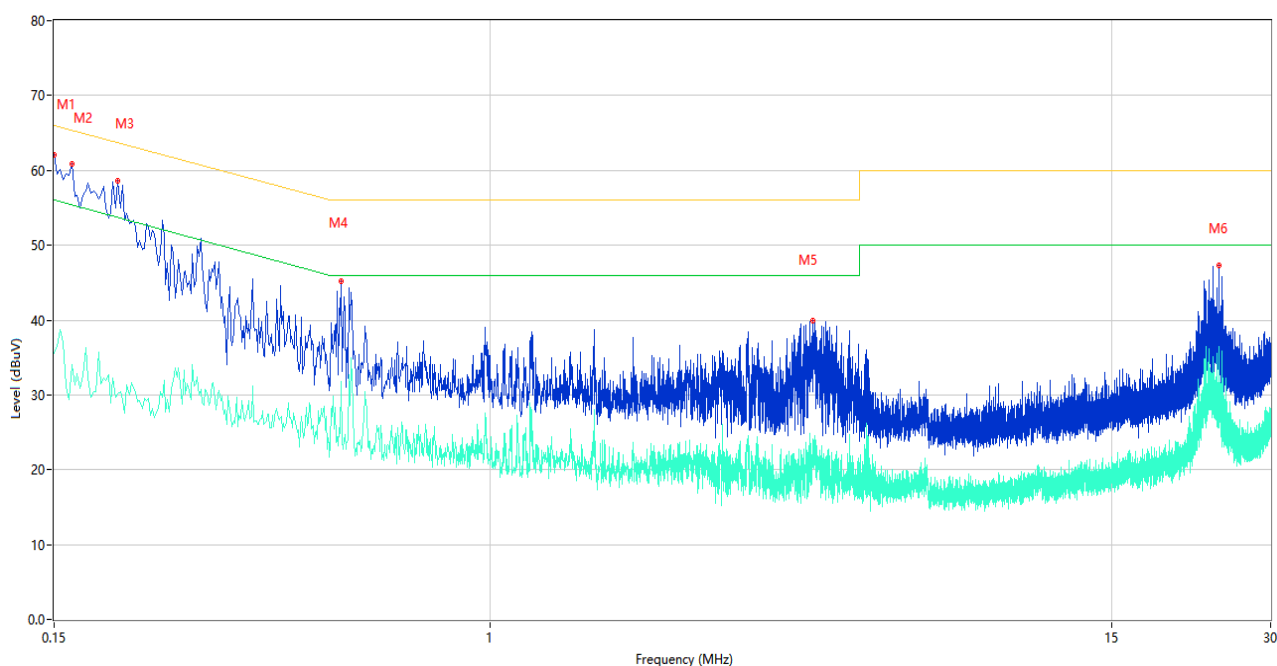
Test Mode 12

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	58.85	10.13	66.00	7.15	Peak	L	Pass
1**	0.150	31.52	10.13	56.00	24.48	AV	L	Pass
2	0.164	58.61	10.09	65.26	6.65	Peak	L	Pass
2**	0.164	32.97	10.09	55.26	22.29	AV	L	Pass
3	0.184	56.01	10.05	64.30	8.29	Peak	L	Pass
3**	0.184	31.80	10.05	54.30	22.50	AV	L	Pass
4	2.676	40.08	10.65	56.00	15.92	Peak	L	Pass
4**	2.676	19.22	10.65	46.00	26.78	AV	L	Pass
5	4.170	39.16	10.86	56.00	16.84	Peak	L	Pass
5**	4.170	22.87	10.86	46.00	23.13	AV	L	Pass
6	23.684	47.94	15.89	60.00	12.06	Peak	L	Pass
6**	23.684	32.62	15.89	50.00	17.38	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	62.12	10.13	66.00	3.88	Peak	N	Pass
1**	0.150	35.55	10.13	56.00	20.45	AV	N	Pass
2	0.162	60.85	10.09	65.36	4.51	Peak	N	Pass
2**	0.162	34.04	10.09	55.36	21.32	AV	N	Pass
3	0.198	58.62	10.03	63.69	5.07	Peak	N	Pass
3**	0.198	30.07	10.03	53.69	23.62	AV	N	Pass
4	0.524	45.15	10.38	56.00	10.85	Peak	N	Pass
4**	0.524	31.73	10.38	46.00	14.27	AV	N	Pass
5	4.088	39.99	11.12	56.00	16.01	Peak	N	Pass
5**	4.088	23.96	11.12	46.00	22.04	AV	N	Pass
6	23.940	47.29	16.03	60.00	12.71	Peak	N	Pass
6**	23.940	35.04	16.03	50.00	14.96	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-SZ2510527-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2510527-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2510527-AI.PDF”.

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--END OF REPORT--