

TEST REPORT

Applicant: vivo Mobile Communication Co., Ltd.
Address: No.1, vivo Road, Chang'an, Dongguan,
Guangdong, China
Equipment Type: Mobile Phone
Model Name: V2430
Brand Name: vivo
FCC ID: 2AUCY-V2430
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Feb. 06, 2025
Test Date: Feb. 08, 2025
Date of Issue: Feb. 17, 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>Feb. 17, 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	vivo Mobile Communication Co., Ltd.
Address	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

2.2 Manufacturer Information

Manufacturer	vivo Mobile Communication Co., Ltd.
Address	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	V2430
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	MP_0.1
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery 1	
	Brand Name	N/A
	Model No.	BA60
	Serial No.	N/A
	Capacity	Rated Capacity: 5050mAh Typical capacity: 5150mAh
	Rated Voltage	3.85V
	Limit Charge Voltage	4.39V
	Manufacturer	Sunwoda Electronic Co., Ltd.
Ancillary Equipment 2	Adapter 1	
	Brand Name	N/A
	Model No.	V1530L0B0-EU (EU Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 3	Adapter 2	
	Brand Name	N/A
	Model No.	V1530L0B0-US (US Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 4	Adapter 3	
	Brand Name	N/A
	Model No.	V1530L0B0-UK (UK Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 5	Adapter 4	
	Brand Name	N/A
	Model No.	V1530L0B0-EU (EU Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 6	Adapter 5	
	Brand Name	N/A
	Model No.	V1530L0B0-TL (TL Plug)
	Serial No.	N/A

	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 7	Adapter 6	
	Brand Name	N/A
	Model No.	V1530L0B0-EU (EU Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 8	USB Cable 1	
	Model No.	BK-C-50-B
	Length (Approx.)	1m
Ancillary Equipment 9	Adapter 7	
	Brand Name	N/A
	Model No.	V4440L0A0-US (US Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 1.1A
	Rated Output	5.0V= 3.0A or 9.0V= 2.0A or 11.0V= 4.0A Max
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 10	Battery 2	
	Brand Name	N/A
	Model No.	BA86
	Serial No.	N/A
	Capacity	Rated Capacity: 5050mAh Typical capacity: 5150mAh
	Rated Voltage	3.85V
	Limit Charge Voltage	4.39V
	Manufacturer	Sunwoda Electronic Co., Ltd.
Ancillary Equipment 11	USB Cable 2	
	Model No.	BK-C-49-B
	Length (Approx.)	1m
Note 1: Letter in () means plug type. Note 2: All adapters are tested, only the worst data of V1530L0B0-UK (UK Plug) shown in this report. Note 3: All batteries are tested, only the worst data of BA86 shown in this report. Note 4: All USB Cable s are tested, only the worst data of BK-C-49-B shown in this report.		

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/13/18/19/26/66 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac (VHT20/40/80) Galileo, BDS, GLONASS, GPS, SBAS, QZSS, FM Receiver
Classification of equipment	Class B
The highest internal frequency of EUT	5850 MHz

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	--
Note: Compared with the EUT of test report BL-SZ24C1274-401, the changes of the EUT of this report as below: 1. Added second source memory: 4+256G 2. Add second source fast charge power: 44W 3. Add the battery: BA86 (Sunwoda Electronic Co., Ltd.). 4. Add the adapter: V4440L0A0-US (Dongguan Aohai Technology Co., Ltd.). 4. Add the USB cable: BK-C-49-B. Other hardware circuit and software are the same as EUT referred in test report BL-SZ24C1274-401. Therefore, all the worst-case modes in the original report have been retested.				

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	HONOR	KPRC-W10	N/A	N/A	N/A	☒
Earphone	N/A	N/A	N/A	1.25m	N/A	☒
TF Card	Samsung	MB-MD256KA	N/A	N/A	256G	☒

4.2 Test Configurations

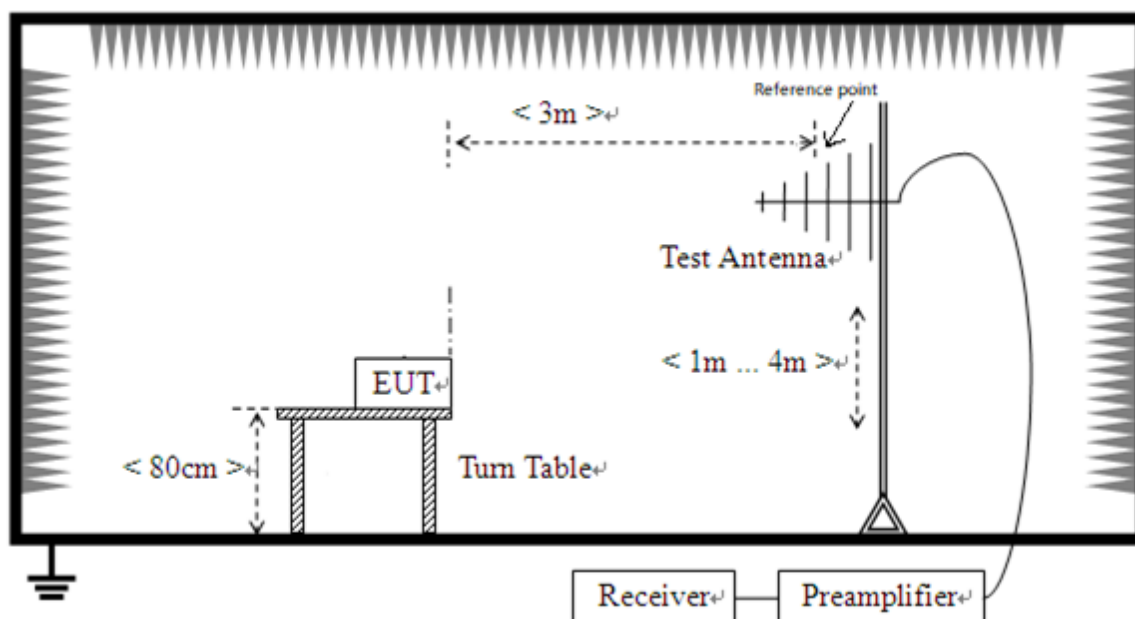
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Only Charing Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 2	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + Headset + TF Card

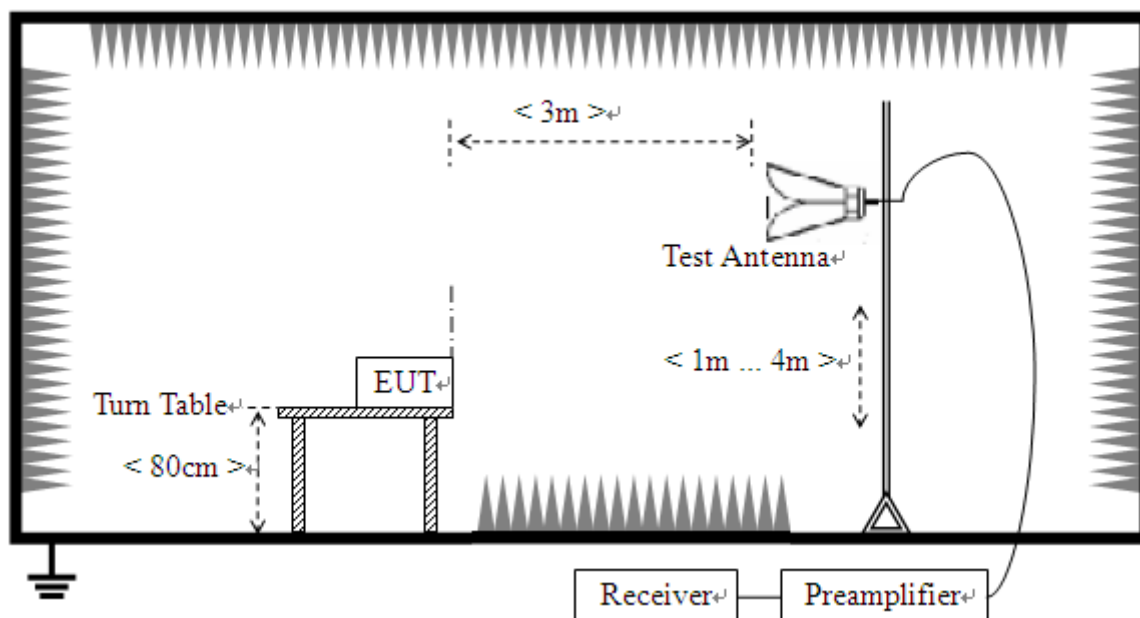
Test Case	Test Mode Configuration	Test Mode
Radiated Emission	Mode 1~Mode 2	1, 2
Conducted Emission, AC Ports	Mode 1~Mode 2	1, 2

4.3 Test Setups

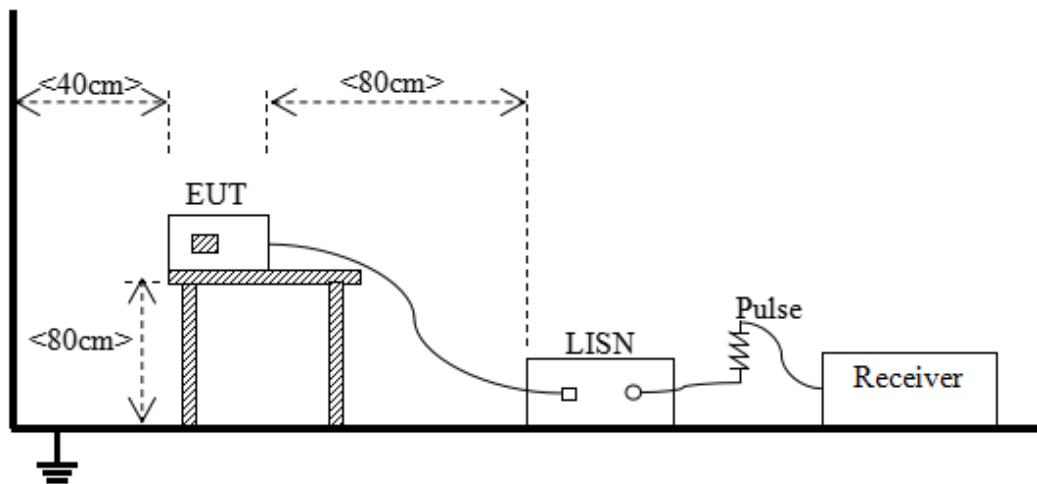
Test Setup 1



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 $\mu\text{V/m}$) = $20 \times \log [\text{Field Strength } (\mu\text{V/m})]$.
- 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:

$$L_{3m} = L_{10m} + 20 \times \log(d_{10m}/d_{3m})$$
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: $L_{3m} = 49.5 + 20 \times \log(10/3) = 60$ (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.

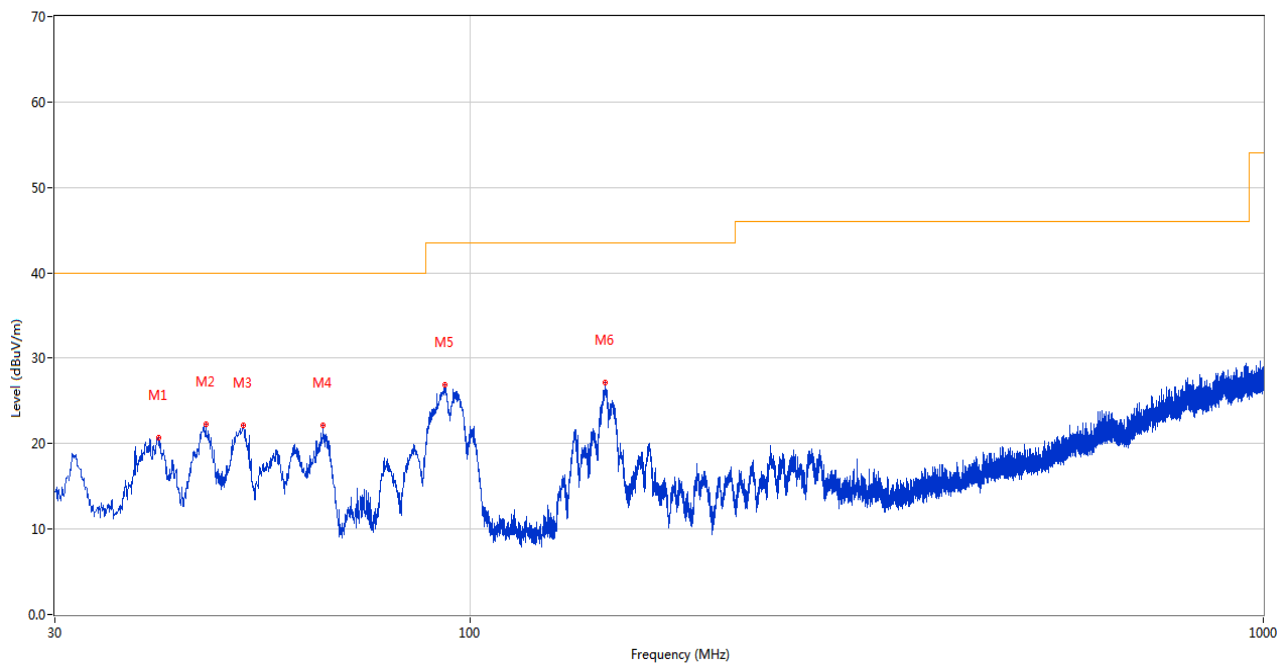
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: 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.	S05	Temperature	18.7℃
Humidity	31%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.02.08

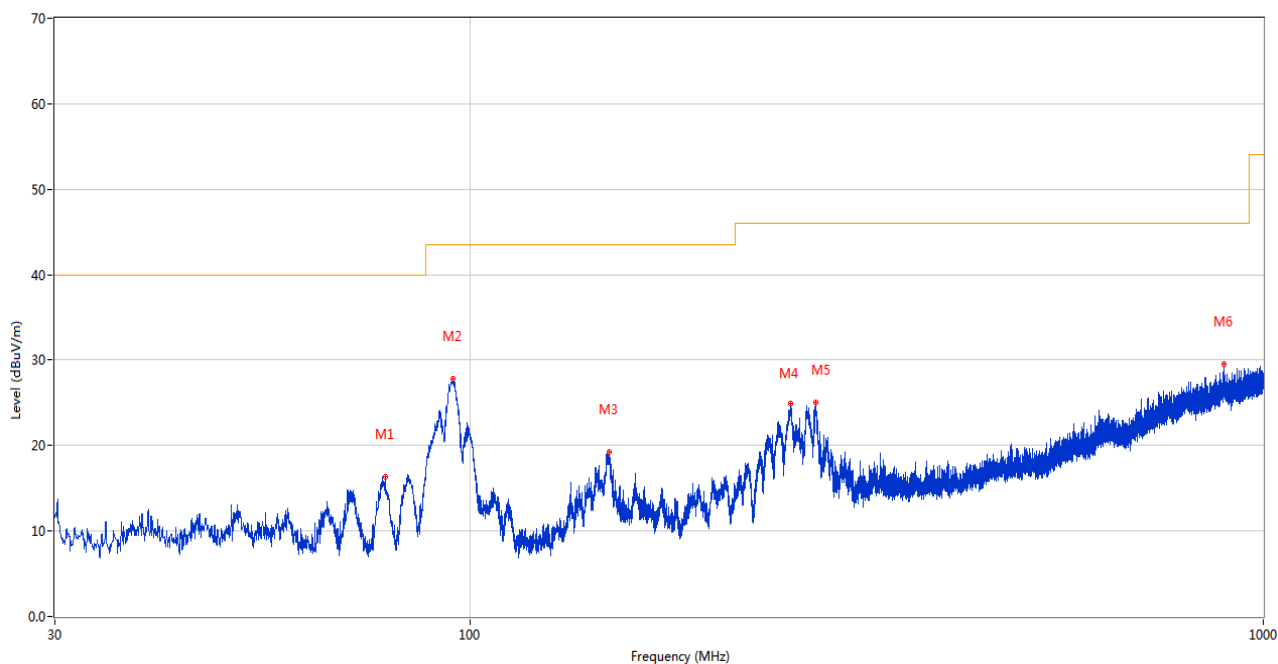
Test Mode 1

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	40.525	20.68	-26.09	40.0	19.32	Peak	0.00	100	Vertical	Pass
2	46.490	22.32	-26.72	40.0	17.68	Peak	169.00	100	Vertical	Pass
3	51.776	22.15	-26.66	40.0	17.85	Peak	346.00	100	Vertical	Pass
4	65.356	22.11	-28.16	40.0	17.89	Peak	294.00	100	Vertical	Pass
5	92.905	26.92	-30.55	43.5	16.58	Peak	152.00	100	Vertical	Pass
6	148.194	27.15	-25.73	43.5	16.35	Peak	115.00	100	Vertical	Pass

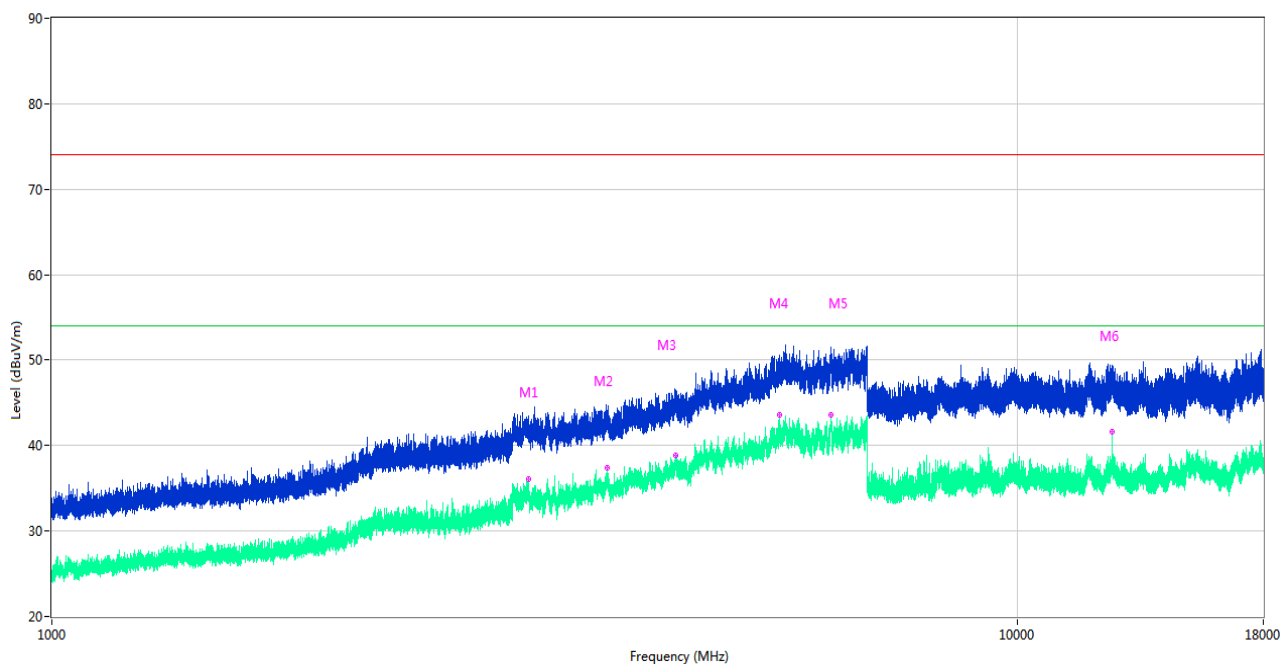
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	78.257	16.38	-30.45	40.0	23.62	Peak	76.00	200	Horizontal	Pass
2	95.135	27.82	-29.96	40.0	12.18	Peak	103.00	200	Horizontal	Pass
3	149.747	19.22	-25.51	40.0	20.78	Peak	40.00	200	Horizontal	Pass
4	253.973	24.94	-26.55	47.0	22.06	Peak	72.00	100	Horizontal	Pass
5	272.694	25.10	-25.72	47.0	21.90	Peak	240.00	100	Horizontal	Pass
6	893.009	29.52	-10.50	47.0	17.48	Peak	5.00	200	Horizontal	Pass

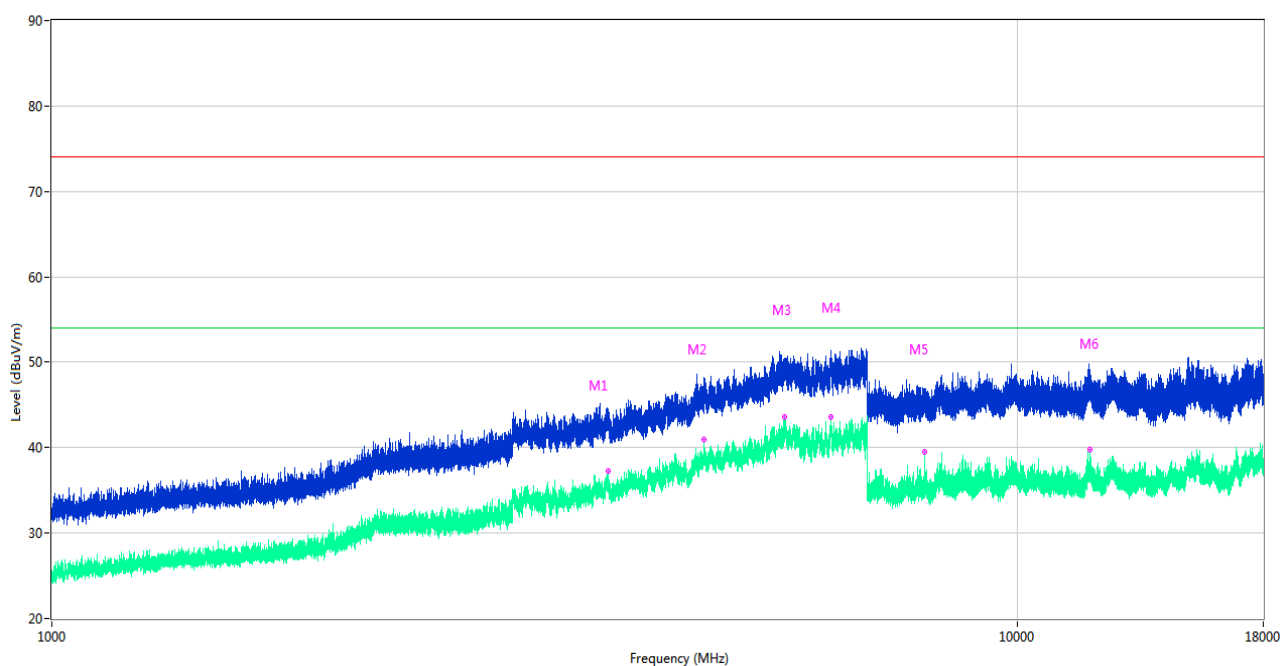
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	3116.200	42.59	-8.53	74.0	31.41	Peak	157.00	100	Vertical	Pass
1**	3116.200	36.11	-8.53	54.0	17.89	AV	157.00	100	Vertical	Pass
2	3760.200	43.82	-6.33	74.0	30.18	Peak	110.00	100	Vertical	Pass
2**	3760.200	37.34	-6.33	54.0	16.66	AV	110.00	100	Vertical	Pass
3	4425.400	44.91	-4.58	74.0	29.09	Peak	25.00	100	Vertical	Pass
3**	4425.400	38.83	-4.58	54.0	15.17	AV	25.00	100	Vertical	Pass
4	5674.200	48.90	-0.80	74.0	25.10	Peak	54.00	100	Vertical	Pass
4**	5674.200	43.56	-0.80	54.0	10.44	AV	54.00	100	Vertical	Pass
5	6416.400	49.96	1.78	74.0	24.04	Peak	272.00	100	Vertical	Pass
5**	6416.400	43.54	1.78	54.0	10.46	AV	272.00	100	Vertical	Pass
6	12546.450	47.85	16.88	74.0	26.15	Peak	0.00	100	Vertical	Pass
6**	12546.450	41.65	16.88	54.0	12.35	AV	0.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz

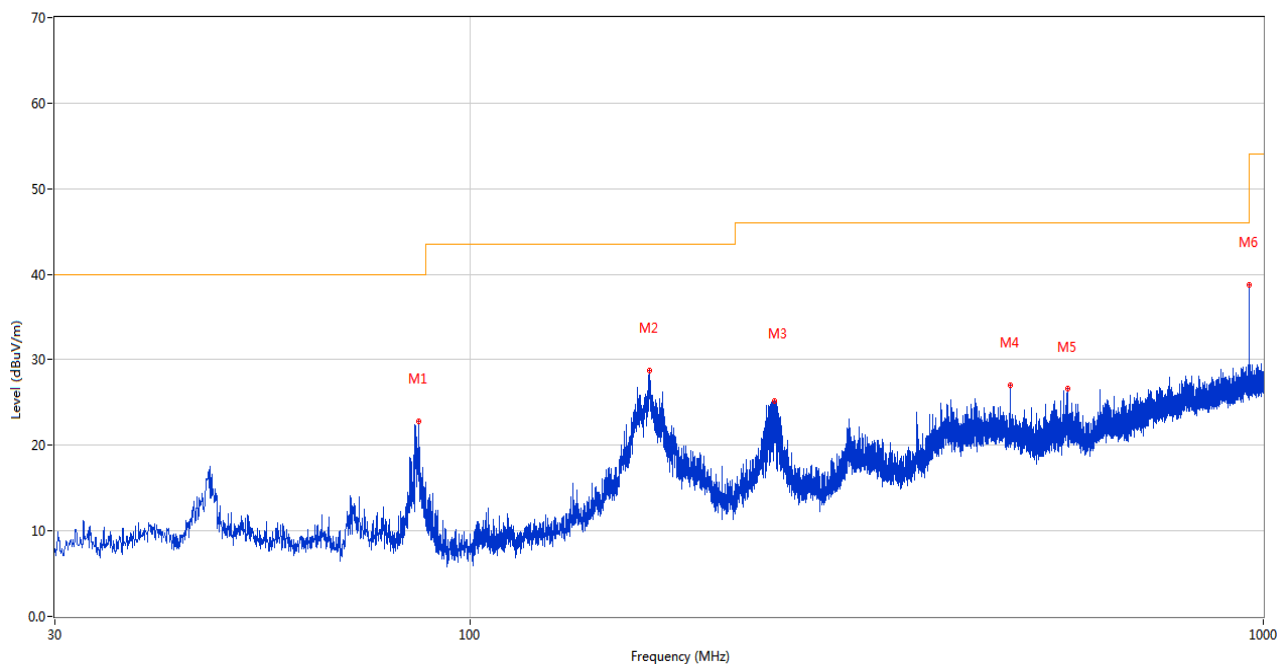


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	3769.600	43.04	-6.37	74.0	30.96	Peak	293.00	100	Horizontal	Pass
1**	3769.600	37.26	-6.37	54.0	16.74	AV	293.00	100	Horizontal	Pass
2	4736.400	46.67	-3.64	74.0	27.33	Peak	0.00	100	Horizontal	Pass
2**	4736.400	40.94	-3.64	54.0	13.06	AV	0.00	100	Horizontal	Pass
3	5748.800	47.85	-0.55	74.0	26.15	Peak	16.00	100	Horizontal	Pass
3**	5748.800	43.61	-0.55	54.0	10.39	AV	16.00	100	Horizontal	Pass
4	6409.600	49.72	1.73	74.0	24.28	Peak	158.00	100	Horizontal	Pass
4**	6409.600	43.61	1.73	54.0	10.39	AV	158.00	100	Horizontal	Pass
5	8016.600	45.30	15.93	74.0	28.70	Peak	139.00	100	Horizontal	Pass
5**	8016.600	39.47	15.93	54.0	14.53	AV	139.00	100	Horizontal	Pass
6	11913.662	46.24	16.42	74.0	27.76	Peak	289.00	100	Horizontal	Pass
6**	11913.662	39.75	16.42	54.0	14.25	AV	289.00	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	/		☒

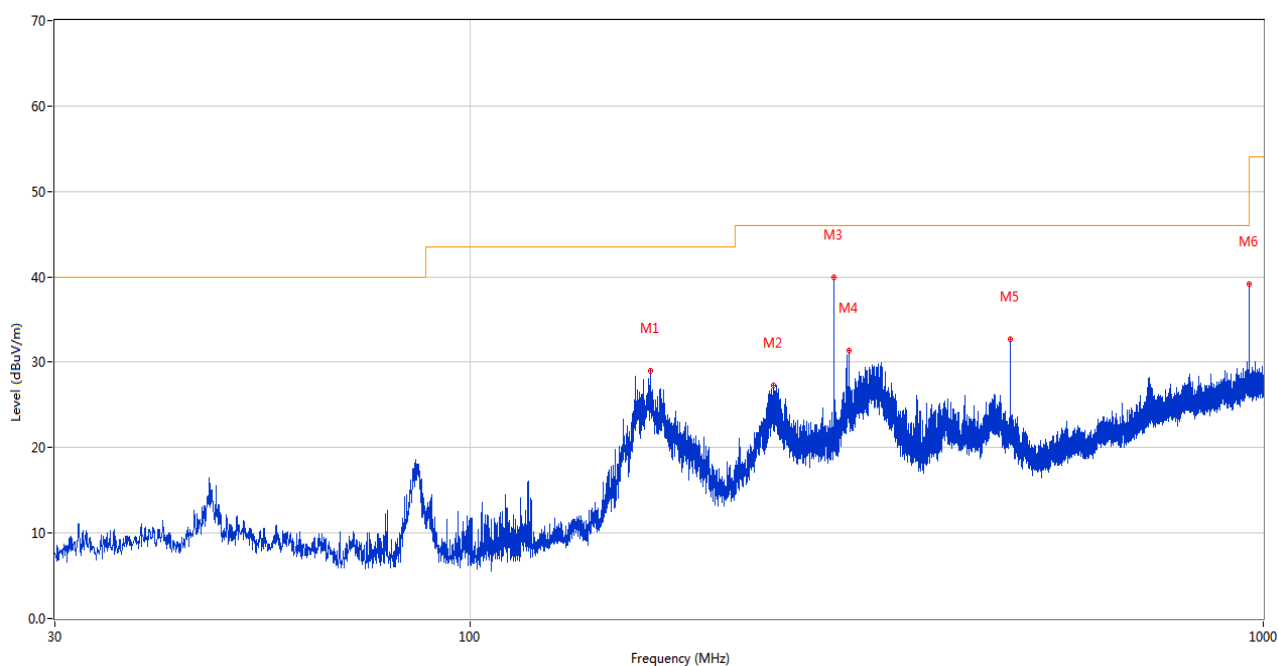
Test Mode 2

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	86.260	22.87	-31.03	40.0	17.13	Peak	360.00	200	Vertical	Pass
2	168.516	28.76	-25.60	43.5	14.74	Peak	55.00	100	Vertical	Pass
3	241.896	25.21	-27.11	46.0	20.79	Peak	112.00	100	Vertical	Pass
4	479.983	26.97	-19.45	46.0	19.03	Peak	270.00	100	Vertical	Pass
5	566.507	26.57	-17.27	46.0	19.43	Peak	134.00	100	Vertical	Pass
6	959.987	38.79	-10.29	46.0	7.21	Peak	165.00	100	Vertical	Pass

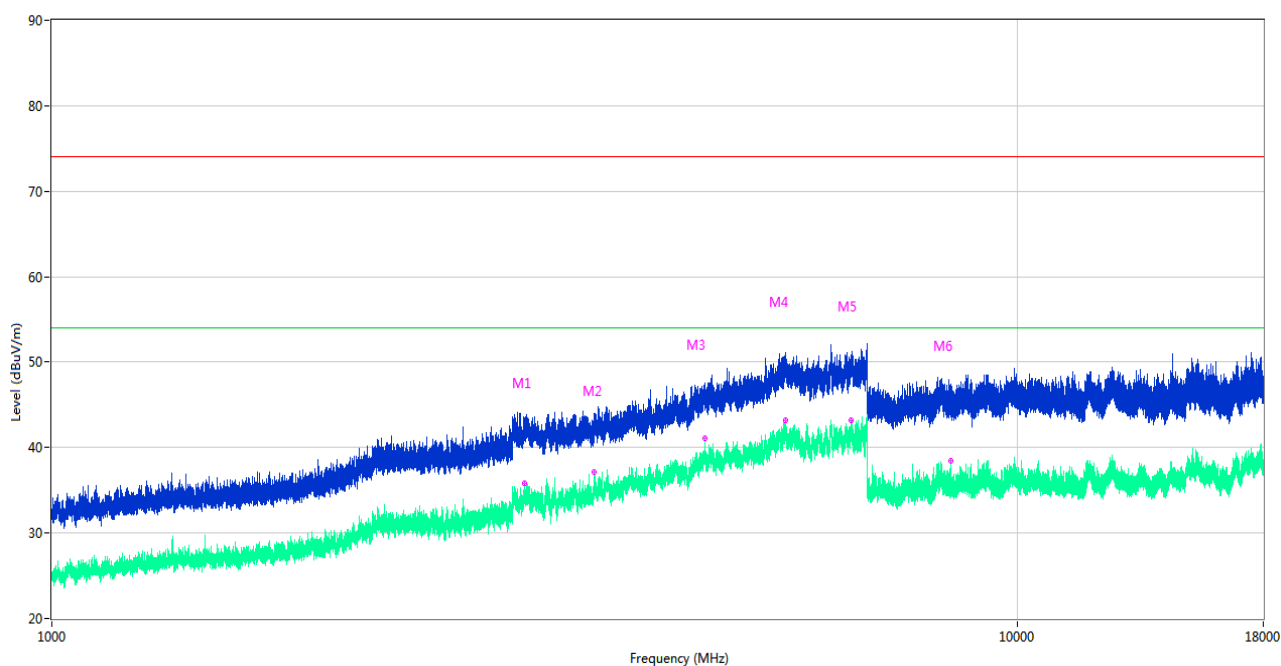
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	169.146	29.04	-25.72	43.5	14.46	Peak	278.00	200	Horizontal	Pass
2	241.266	27.30	-27.14	46.0	18.70	Peak	281.00	100	Horizontal	Pass
3	287.971	39.90	-25.42	46.0	6.10	Peak	0.00	100	Horizontal	Pass
4	300.242	31.43	-24.59	46.0	14.57	Peak	0.00	100	Horizontal	Pass
5	479.983	32.67	-19.45	46.0	13.33	Peak	313.00	100	Horizontal	Pass
6	959.987	39.18	-10.29	46.0	6.82	Peak	326.00	100	Horizontal	Pass

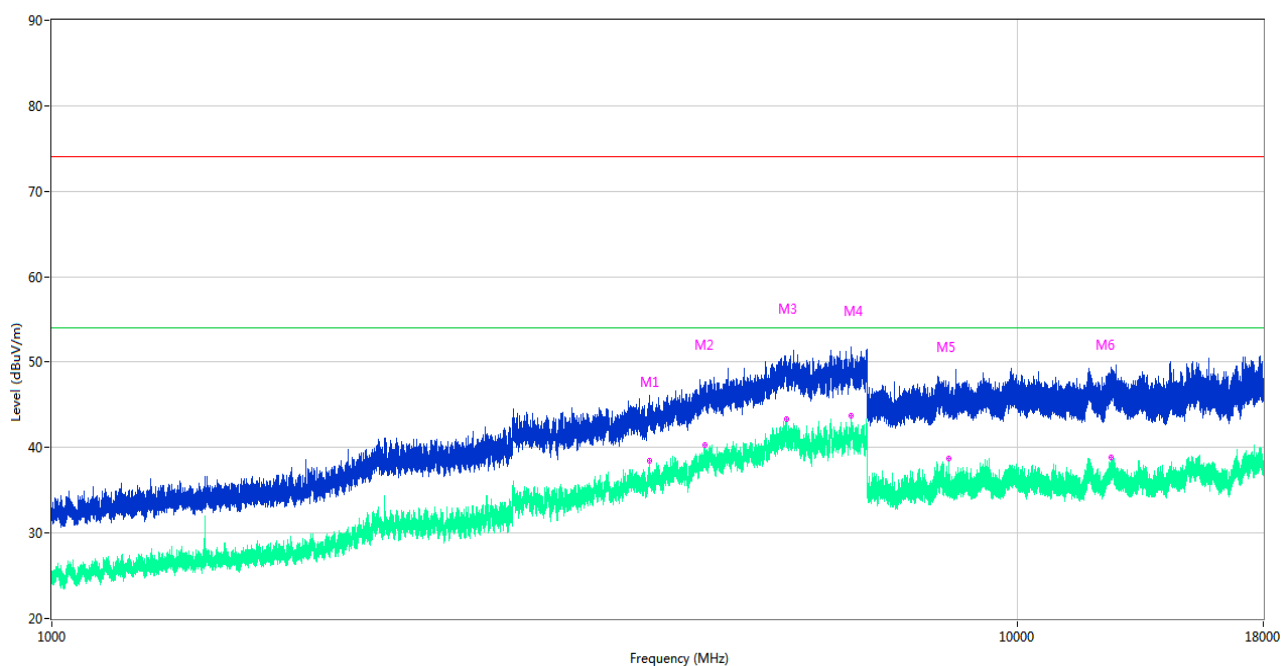
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	3090.200	42.17	-8.01	74.0	31.83	Peak	16.00	100	Vertical	Pass
1**	3090.200	35.85	-8.01	54.0	18.15	AV	16.00	100	Vertical	Pass
2	3650.600	43.03	-7.12	74.0	30.97	Peak	168.00	100	Vertical	Pass
2**	3650.600	37.13	-7.12	54.0	16.87	AV	168.00	100	Vertical	Pass
3	4747.200	46.26	-3.44	74.0	27.74	Peak	359.00	100	Vertical	Pass
3**	4747.200	41.07	-3.44	54.0	12.93	AV	359.00	100	Vertical	Pass
4	5761.400	50.02	0.29	74.0	23.98	Peak	121.00	100	Vertical	Pass
4**	5761.400	43.23	0.29	54.0	10.77	AV	121.00	100	Vertical	Pass
5	6729.400	50.79	2.16	74.0	23.21	Peak	102.00	100	Vertical	Pass
5**	6729.400	43.27	2.16	54.0	10.73	AV	102.00	100	Vertical	Pass
6	8538.412	44.73	15.62	74.0	29.27	Peak	64.00	100	Vertical	Pass
6**	8538.412	38.45	15.62	54.0	15.55	AV	64.00	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	4160.400	43.47	-5.50	74.0	30.53	Peak	261.00	100	Horizontal	Pass
1**	4160.400	38.45	-5.50	54.0	15.55	AV	261.00	100	Horizontal	Pass
2	4746.800	46.45	-3.46	74.0	27.55	Peak	116.00	100	Horizontal	Pass
2**	4746.800	40.33	-3.46	54.0	13.67	AV	116.00	100	Horizontal	Pass
3	5765.200	49.45	0.40	74.0	24.55	Peak	251.00	100	Horizontal	Pass
3**	5765.200	43.37	0.40	54.0	10.63	AV	251.00	100	Horizontal	Pass
4	6734.000	49.32	1.70	74.0	24.68	Peak	289.00	100	Horizontal	Pass
4**	6734.000	43.73	1.70	54.0	10.27	AV	289.00	100	Horizontal	Pass
5	8501.037	44.05	15.62	74.0	29.95	Peak	334.00	100	Horizontal	Pass
5**	8501.037	38.67	15.62	54.0	15.33	AV	334.00	100	Horizontal	Pass
6	12526.612	47.16	16.76	74.0	26.84	Peak	81.00	100	Horizontal	Pass
6**	12526.612	38.87	16.76	54.0	15.13	AV	81.00	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	/		☒

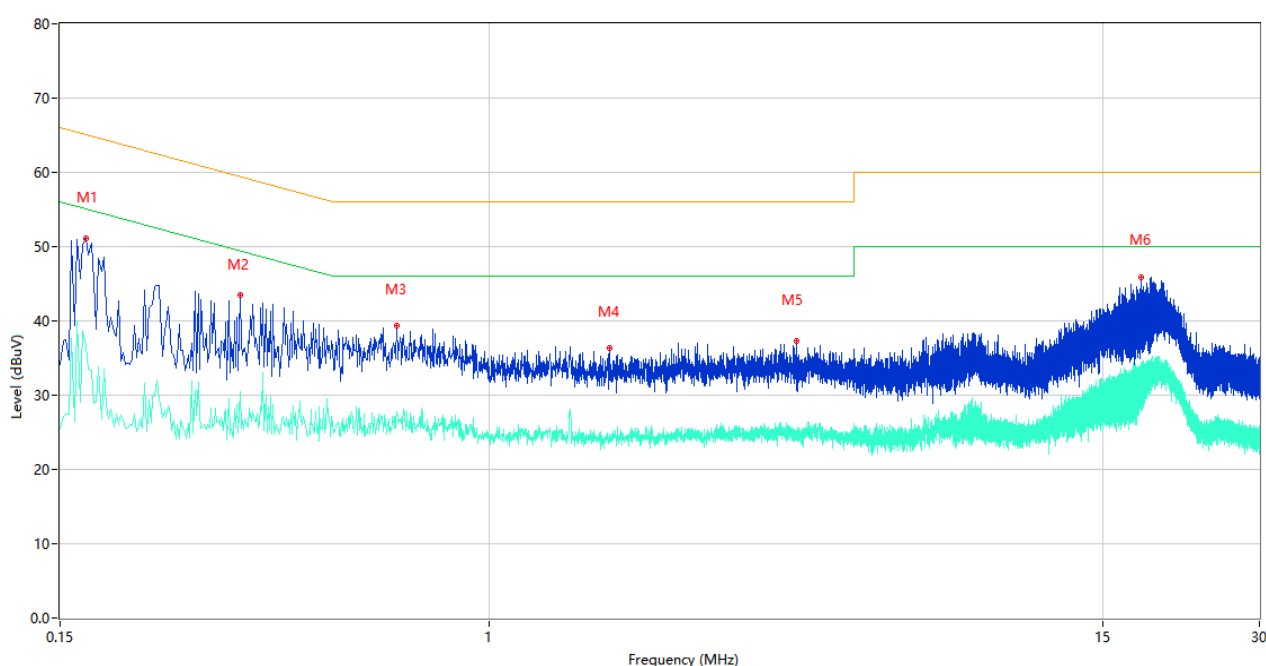
A.2 Conducted Emission, AC Ports

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.	S05	Temperature	19.9℃
Humidity	33%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2025.02.08

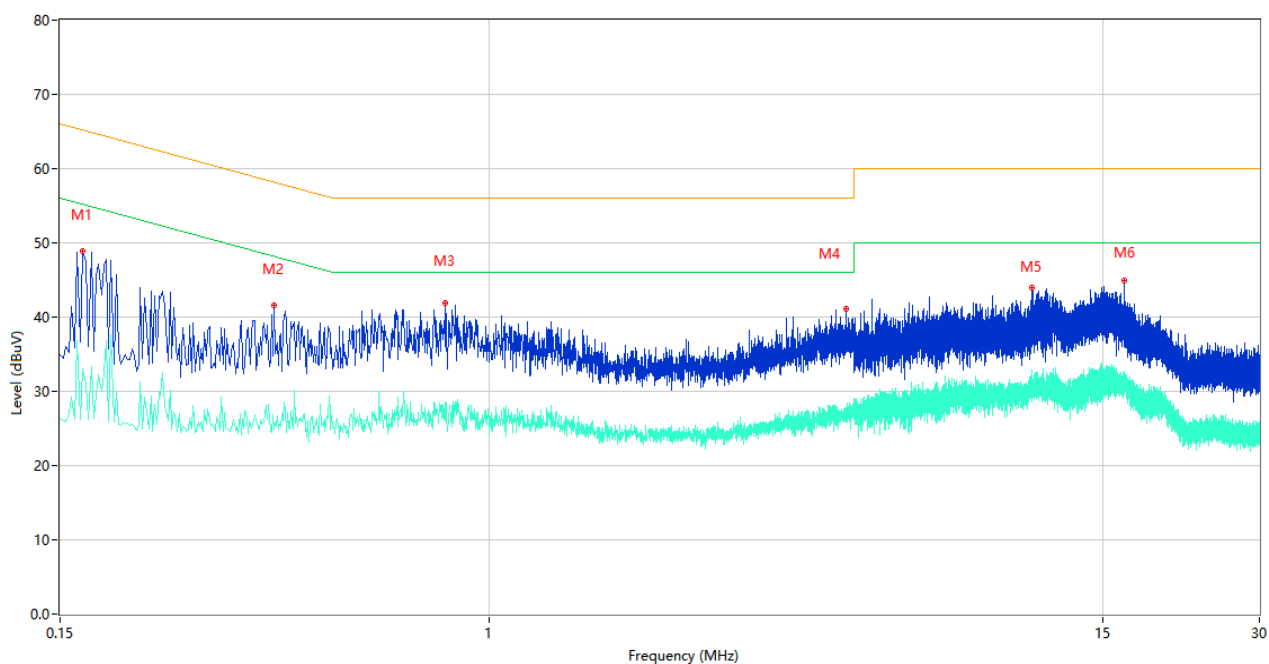
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	51.09	9.78	65.06	13.97	Peak	L	Pass
1**	0.168	36.65	9.78	55.06	18.41	AV	L	Pass
2	0.332	43.56	10.40	59.40	15.84	Peak	L	Pass
2**	0.332	30.54	10.40	49.40	18.86	AV	L	Pass
3	0.664	39.36	10.34	56.00	16.64	Peak	L	Pass
3**	0.664	27.76	10.34	46.00	18.24	AV	L	Pass
4	1.702	36.33	10.19	56.00	19.67	Peak	L	Pass
4**	1.702	24.38	10.19	46.00	21.62	AV	L	Pass
5	3.880	37.26	10.32	56.00	18.74	Peak	L	Pass
5**	3.880	25.21	10.32	46.00	20.79	AV	L	Pass
6	17.836	45.88	10.81	60.00	14.12	Peak	L	Pass
6**	17.836	33.69	10.81	50.00	16.31	AV	L	Pass

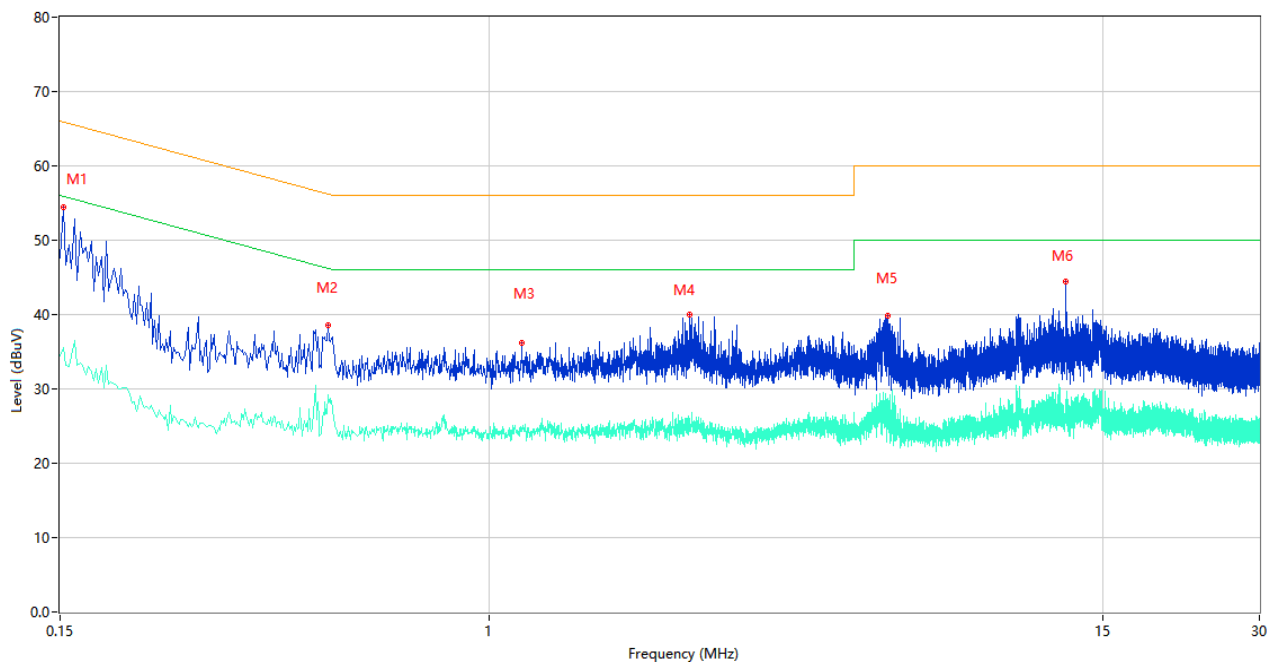
2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.166	48.88	9.78	65.16	16.28	Peak	N	Pass
1**	0.166	33.03	9.78	55.16	22.13	AV	N	Pass
2	0.386	41.54	10.61	58.15	16.61	Peak	N	Pass
2**	0.386	24.76	10.61	48.15	23.39	AV	N	Pass
3	0.824	41.86	10.57	56.00	14.14	Peak	N	Pass
3**	0.824	28.60	10.57	46.00	17.40	AV	N	Pass
4	4.840	41.15	10.23	56.00	14.85	Peak	N	Pass
4**	4.840	27.41	10.23	46.00	18.59	AV	N	Pass
5	10.992	43.91	10.72	60.00	16.09	Peak	N	Pass
5**	10.992	32.00	10.72	50.00	18.00	AV	N	Pass
6	16.500	44.90	10.72	60.00	15.10	Peak	N	Pass
6**	16.500	30.81	10.72	50.00	19.19	AV	N	Pass

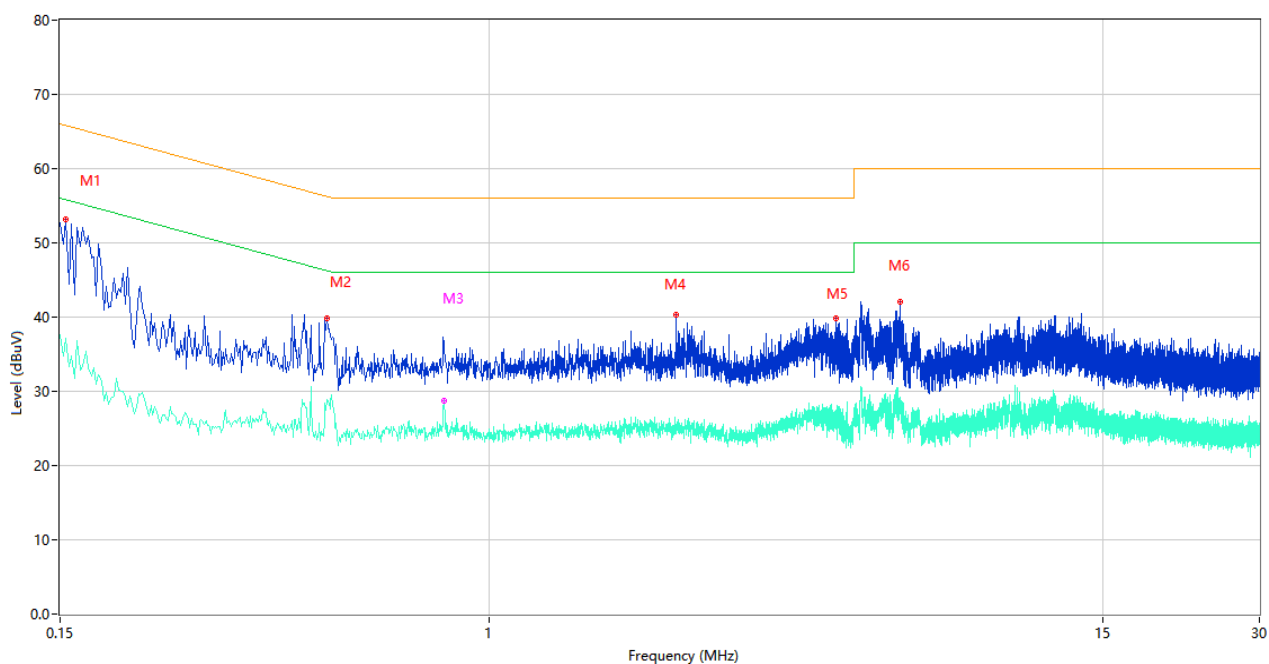
Test Mode 2

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	54.38	9.78	65.89	11.51	Peak	L	Pass
1**	0.152	35.49	9.78	55.89	20.40	AV	L	Pass
2	0.490	38.62	9.99	56.17	17.55	Peak	L	Pass
2**	0.490	29.16	9.99	46.17	17.01	AV	L	Pass
3	1.154	36.13	10.35	56.00	19.87	Peak	L	Pass
3**	1.154	24.59	10.35	46.00	21.41	AV	L	Pass
4	2.418	39.96	10.25	56.00	16.04	Peak	L	Pass
4**	2.418	26.03	10.25	46.00	19.97	AV	L	Pass
5	5.820	39.88	10.19	60.00	20.12	Peak	L	Pass
5**	5.820	28.73	10.19	50.00	21.27	AV	L	Pass
6	12.738	44.39	10.62	60.00	15.61	Peak	L	Pass
6**	12.738	27.75	10.62	50.00	22.25	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	53.13	9.78	65.78	12.65	Peak	N	Pass
1**	0.154	37.08	9.78	55.78	18.70	AV	N	Pass
2	0.488	39.79	9.99	56.20	16.41	Peak	N	Pass
2**	0.488	28.96	9.99	46.20	17.24	AV	N	Pass
3	0.820	35.57	10.56	56.00	20.43	Peak	N	Pass
3**	0.820	28.73	10.56	46.00	17.27	AV	N	Pass
4	2.282	40.26	10.26	56.00	15.74	Peak	N	Pass
4**	2.282	25.54	10.26	46.00	20.46	AV	N	Pass
5	4.620	39.88	10.40	56.00	16.12	Peak	N	Pass
5**	4.620	26.92	10.40	46.00	19.08	AV	N	Pass
6	6.122	42.06	10.31	60.00	17.94	Peak	N	Pass
6**	6.122	28.38	10.31	50.00	21.62	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-SZ2520085-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2520085-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2520085-AI.PDF”.

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--END OF REPORT--